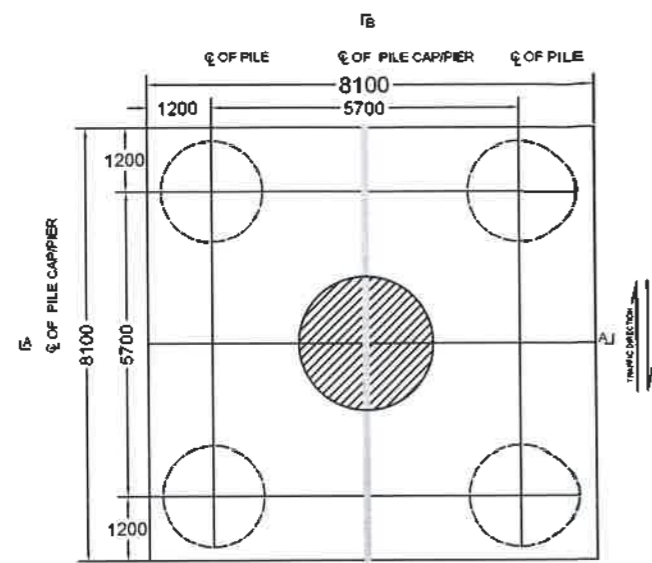
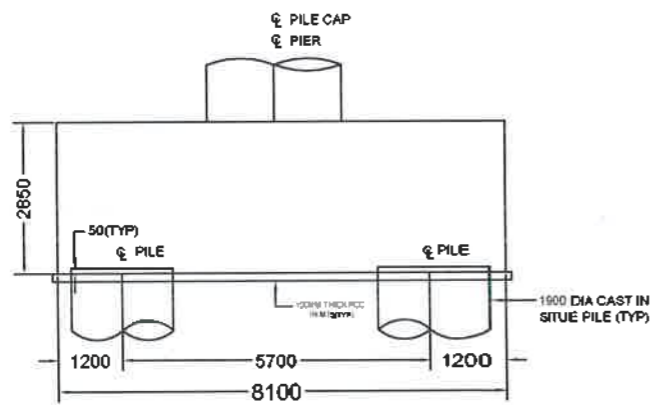


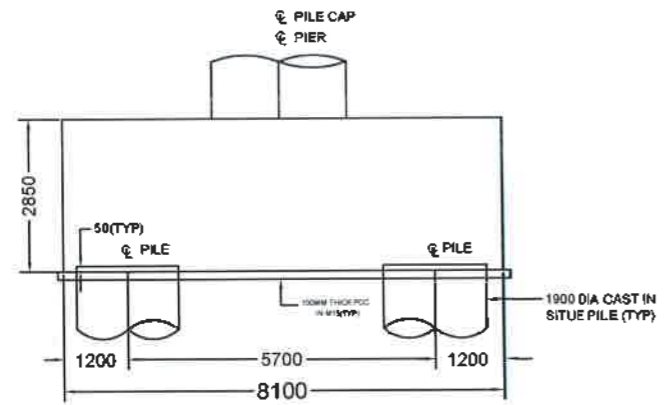
5. Miscellaneous Structural Drawings
(Stretch 'A')



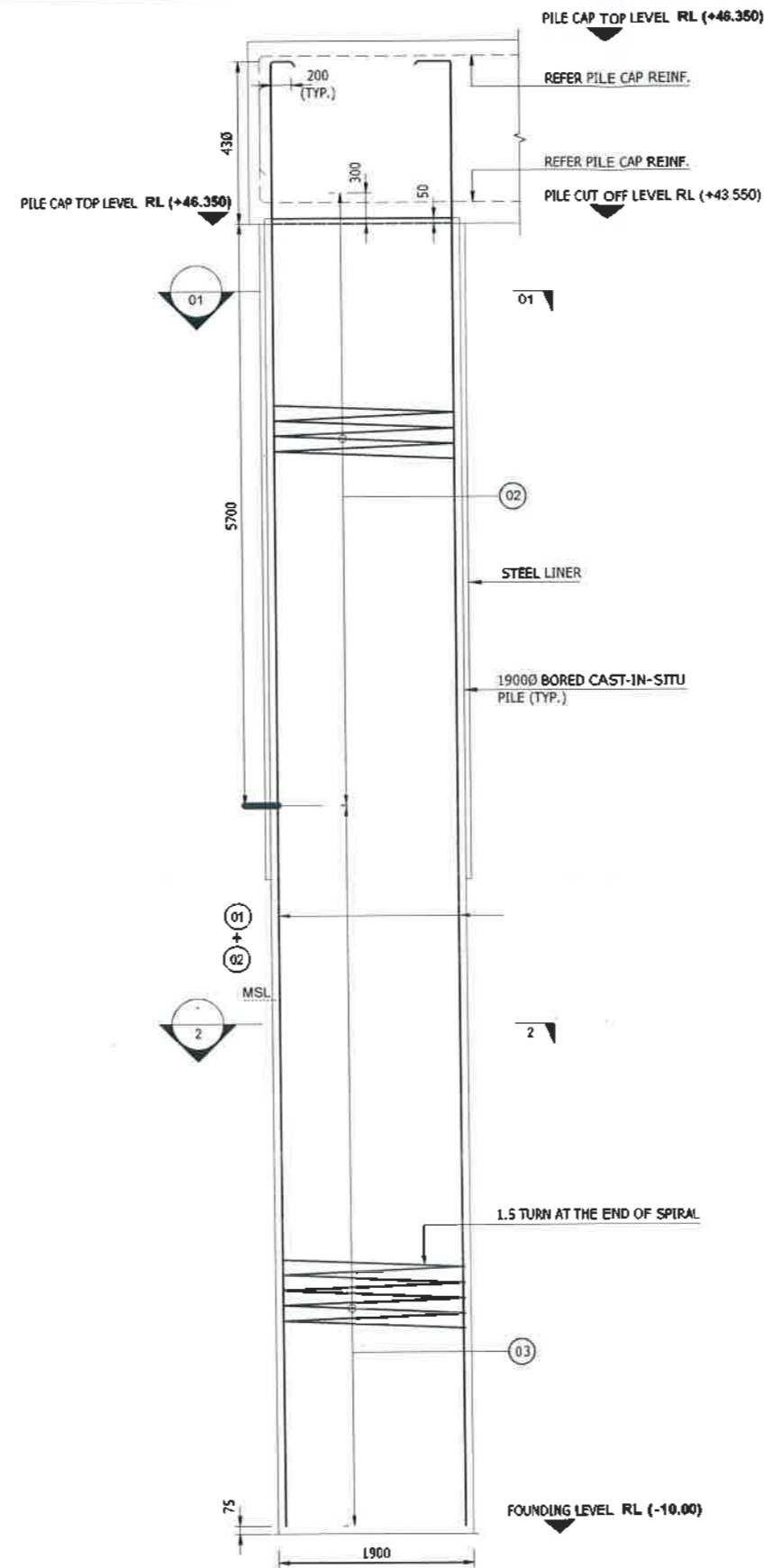
PLAN OF PILE CAP
SHOWING DIMENSION
SCALE 1:50



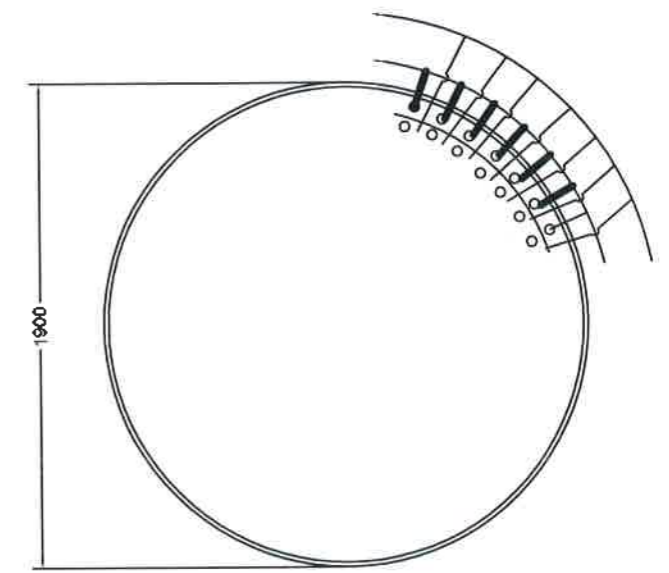
SECTION A-A
SCALE 1:50



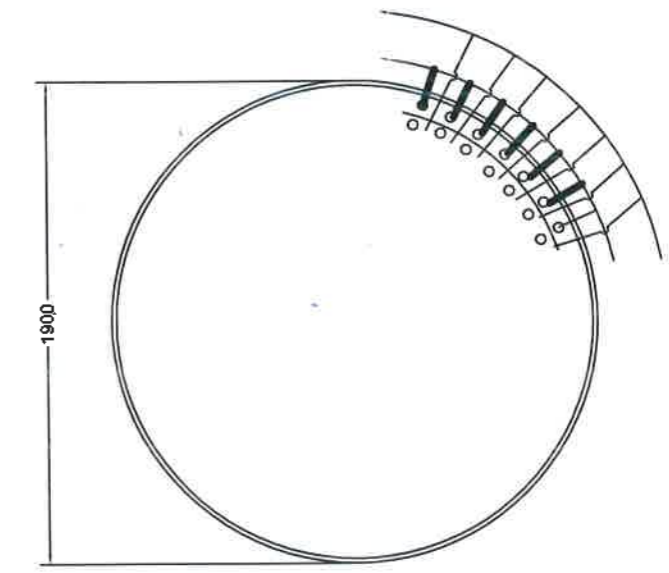
SECTION B-B
SCALE 1:50



REINFORCEMENT DETAILS OF PILE
SCALE 1:40



SECTION 1-1
SCALE 1:20



SECTION 2-2
SCALE 1:20

- NOTES:
- 1) ALL DIMENSION ARE IN MILLI METER
 - 2) DIMENSION ARE NOT TO BE SCALED ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
 - 3) CONCRETE SHALL BE OF GRADE M-40 FOR PILE.
 - 4) REINFORCEMENT SHALL BE Fe 500D CONFIRMING TO IS.. 1786.
 - 5) CLEAR COVER TO ANY REINFORCEMENT SHALL BE 75MM UNLESS NOTED OTHERWISE.
 - 6) CONCRETING FOR PILE SHALL BE DONE IN ONE CONTINUOUS OPERATION WITH ANY CONSTRUCTION JOINT.
 - 7) MS LINER SHALL BE PROVIDED UPTO NORMAL SCORE DEPTH.



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.

TITLE
Typical Details of Pile
Stretch - 'A'

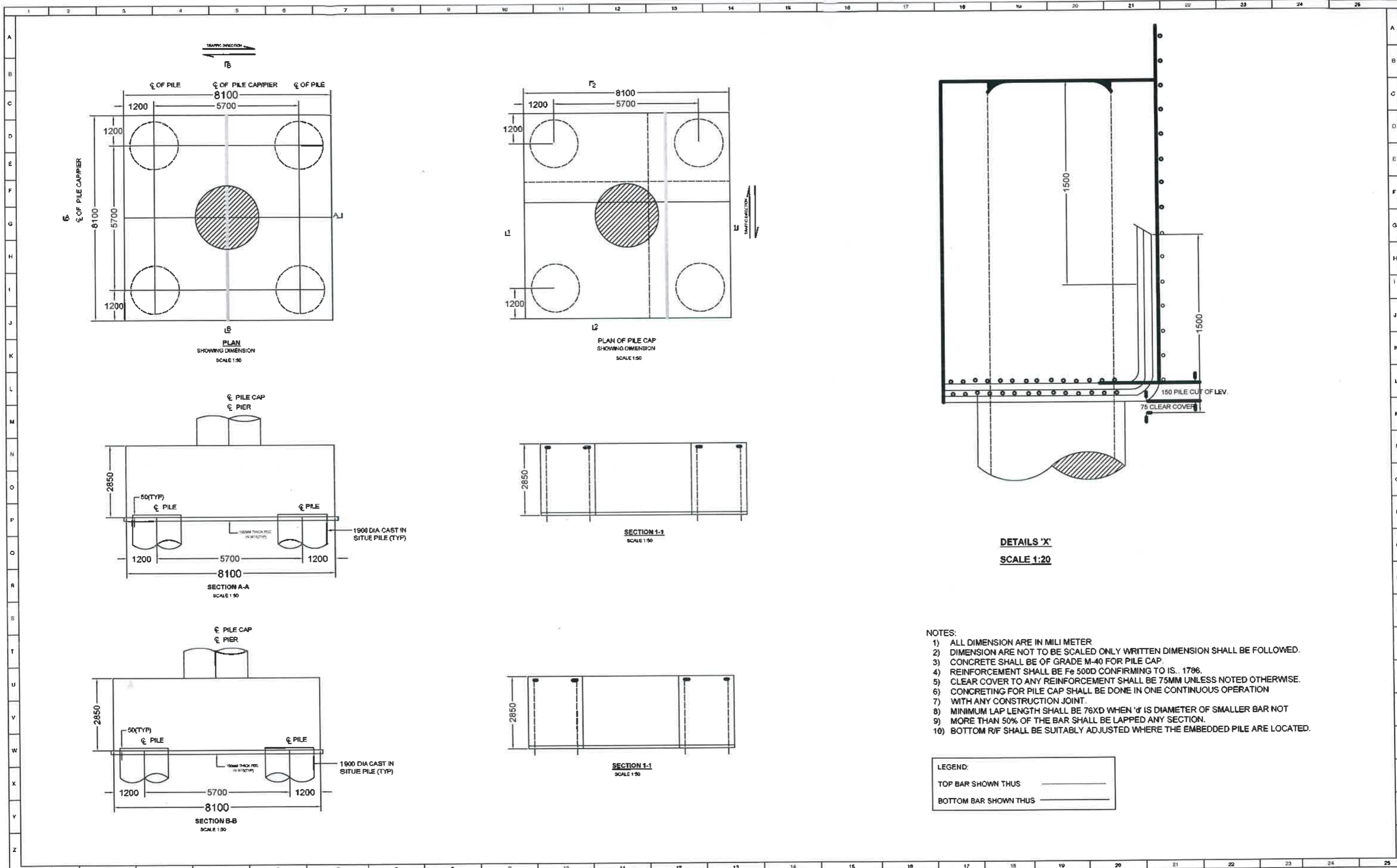
AUTHORITY ENGINEER
AECOM - RODIC JV

SCALE :
DWG NO :

NTS

PROJECT:

"Construction of 4-Lane Elevated Road as a part of JP Ganga Path (Digha to Deedarganj from Naruddin Ghat (Km. 16+975.79 Km) to Dharamshala Ghat (Km. 19+890 Km) (length: 2.914 Km) with allied facilities and Widening and Strengthening of existing Road to 4-Lane the Junction of JP Ganga Path at Deedarganj (Ch: 20+500 Km) to ROB approach on SH-106(old NH-30) (length-750 Mtr.) at Patna in the State of Bihar on EPC mode"

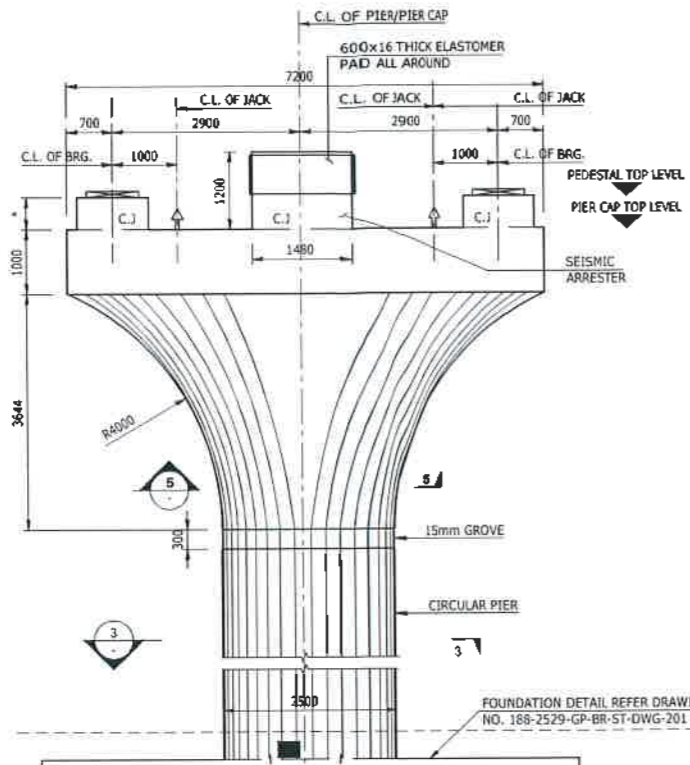


- NOTES:
- 1) ALL DIMENSION ARE IN MILLI METER
 - 2) DIMENSION ARE NOT TO BE SCALED ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
 - 3) CONCRETE SHALL BE OF GRADE M-40 FOR PILE CAP.
 - 4) REINFORCEMENT SHALL BE Fe 500D CONFIRMING TO IS. 1796.
 - 5) CLEAR COVER TO ANY REINFORCEMENT SHALL BE 75MM UNLESS NOTED OTHERWISE.
 - 6) CONCRETING FOR PILE CAP SHALL BE DONE IN ONE CONTINUOUS OPERATION WITH ANY CONSTRUCTION JOINT.
 - 7) WITH ANY CONSTRUCTION JOINT.
 - 8) MINIMUM LAP LENGTH SHALL BE 76XD WHEN 'd' IS DIAMETER OF SMALLER BAR NOT MORE THAN 50% OF THE BAR SHALL BE LAPPED ANY SECTION.
 - 9) MORE THAN 50% OF THE BAR SHALL BE LAPPED ANY SECTION.
 - 10) BOTTOM R/F SHALL BE SUITABLY ADJUSTED WHERE THE EMBEDDED PILE ARE LOCATED.

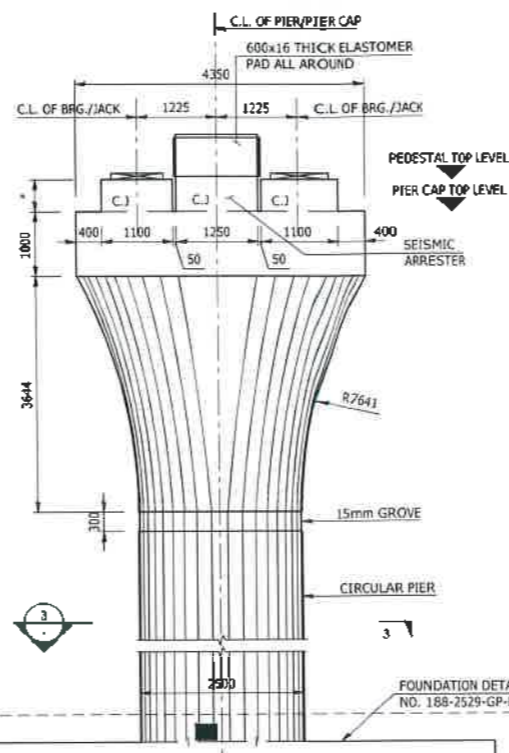
LEGEND:

TOP BAR SHOWN THUS	
BOTTOM BAR SHOWN THUS	

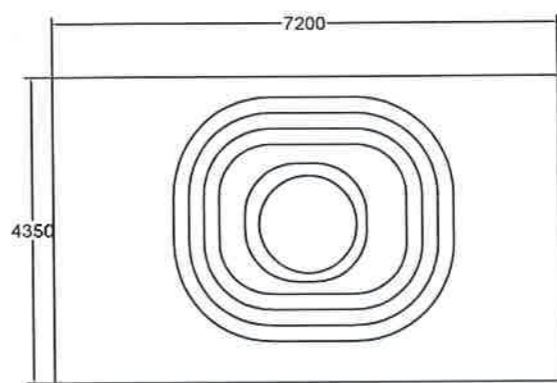
	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.		TITLE Dimension Details for Pile Cap. Stretch - 'A'		AUTHORITY ENGINEER AECOM - RODIC JV		
	PROJECT: "Construction of 4-Lane Elevated Road as a part of JP Ganga Path (Digha to Deedarganj from Naruddin Ghat (Km. 16+975.79 Km) to Dharamshala Ghat (Km. 19+890 Km) (length: 2.914 Km) with allied facilities and Widening and Strengthening of existing Road to 4-Lane the Junction of JP Ganga Path at Deedarganj (Ch: 20+500 Km) to ROB approach on SH-106(old NH-30) (length-750 Mtr.) at Patna in the State of Bihar on EPC mode"				SCALE :	NTS	
					DWG NO :		



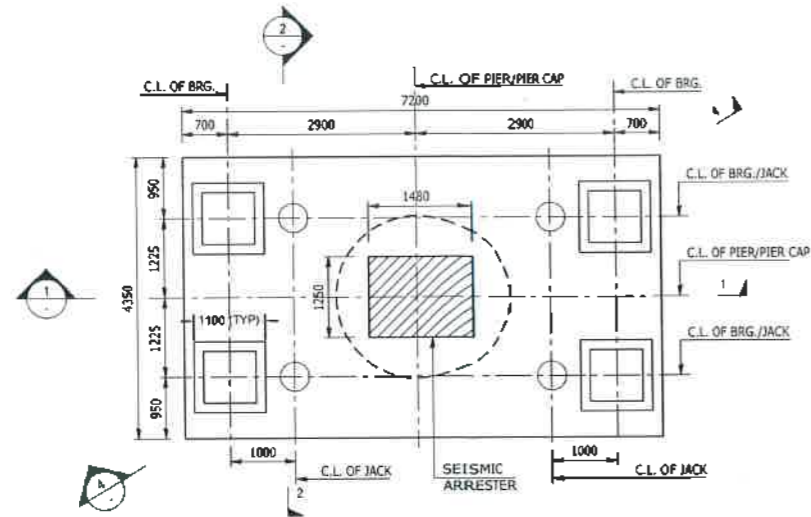
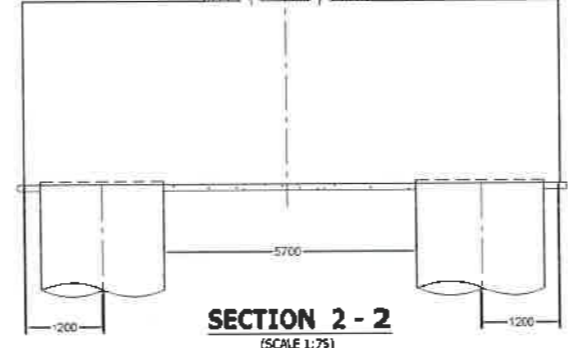
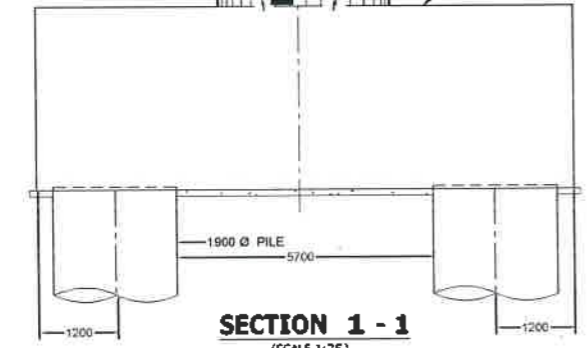
SECTION 1 - 1
(SCALE 1:75)



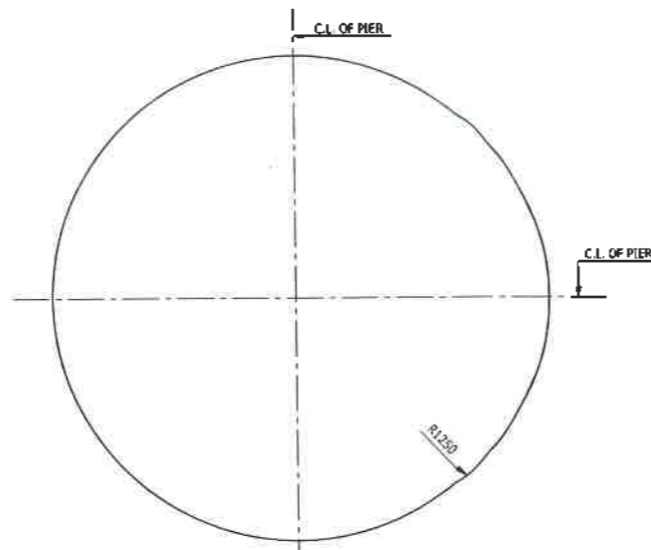
SECTION 2 - 2
(SCALE 1:75)



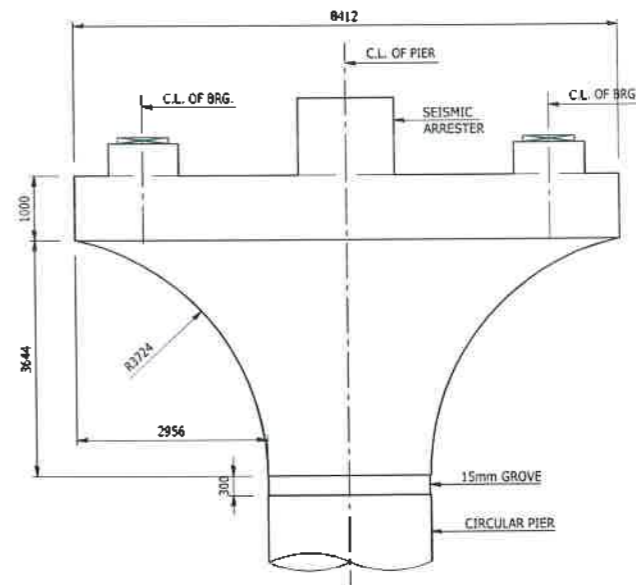
VIEW 5-5
SCALE 1:75



PLAN AT TOP OF PIER CAP
(SCALE 1:75)



SECTION 3 - 3
(SCALE 1:25)



SECTION 4 - 4
(SCALE 1:75)

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRE UNLESS OTHERWISE MENTIONED.
 2. DIMENSIONS SHALL NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION LAP LENGTH SHALL BE KEPT AS 78XD, WHERE D IS SMALLER THE DIA OF BARS BEING LAPPED
 4. CONCRETE SHALL BE OF GRADE M45 FOR PIER, PIER CAP, PEDESTAL AND SISMIC ARRESTER.
 5. THE LOCATION OF JACKS FOR LIFTING OF THE SUPERSTRUCTURE TO REPLACE BEARING ETC. IS SHOWN THUS THIS SHALL DISTINCTLY ETCHED FOR EASY IDENTIFICATION ON THE BOX GIRDERS AND PIER/ABUTMENT CAPS.
 6. DURING THE LIFTING OPERATION, ALL THE JACKS PLACED UNDER THE BOX GIRDER SHALL BE OPERATED SIMULTANEOUSLY USING SINGLE OPERATING CONSOLE, GROUPING THE PUMP AND CONTROL SYSTEM, SO AS TO ENSURE THAT THE REACTIONS ON ALL THE JACKS ARE EQUAL AT ALL TIMES.
 7. CAPACITY OF EACH JACK SHALL NOT BE LESS THAN 520T.



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.

TITLE
Dimension Details of Pier,
Pier Cap & Pile Cap for Pier.
Stretch - 'A'

AUTHORITY ENGINEER
AECOM - RODIC JV

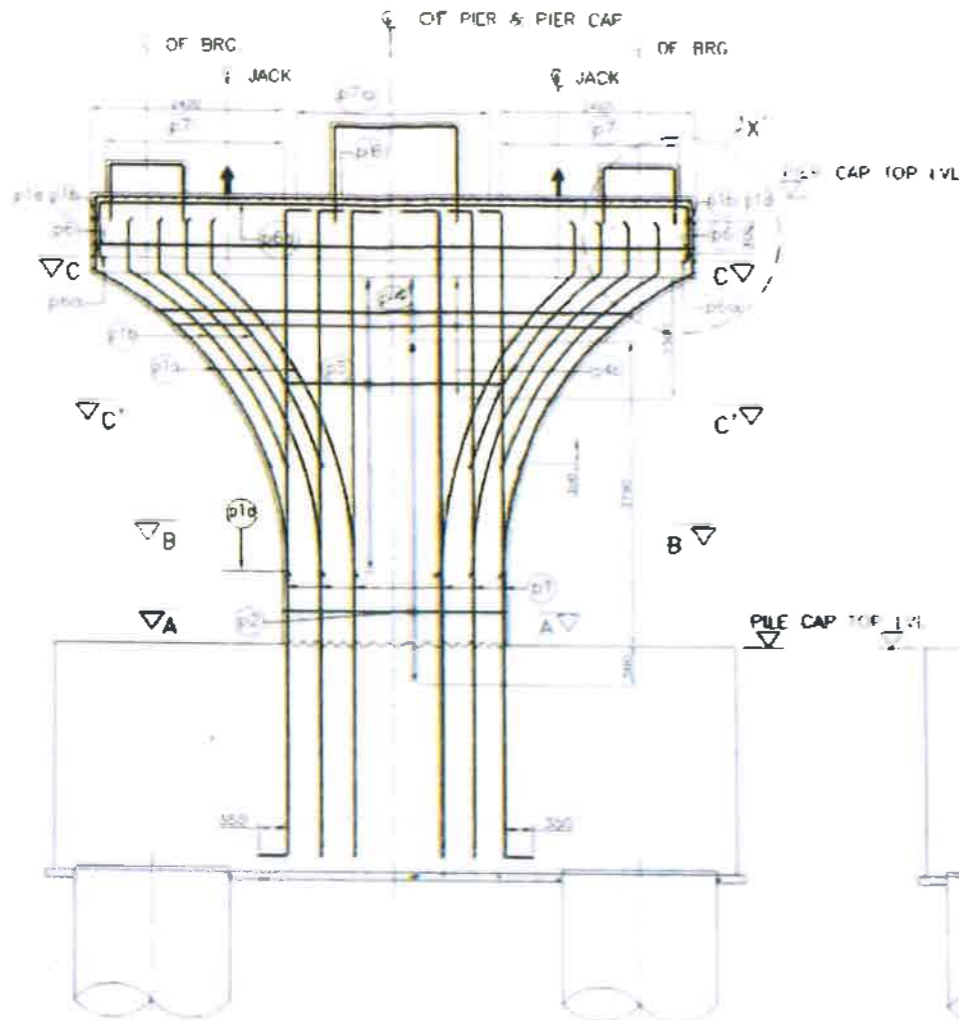
PROJECT:

"Construction of 4-Lane Elevated Road as a part of JP Ganga Path (Digha to Deedarganj from Naruddin Ghat (Km. 16+975.79 Km) to Dharamshala Ghat (Km. 19+890 Km) (length: 2.914 Km) with allied facilities and Widening and Strengthening of existing Road to 4-Lane the Junction of JP Ganga Path at Deedarganj (Ch: 20+500 Km) to ROB approach on SH-106(old NH-30) (length-750 Mtr.) at Patna in the State of Bihar on EPC mode"

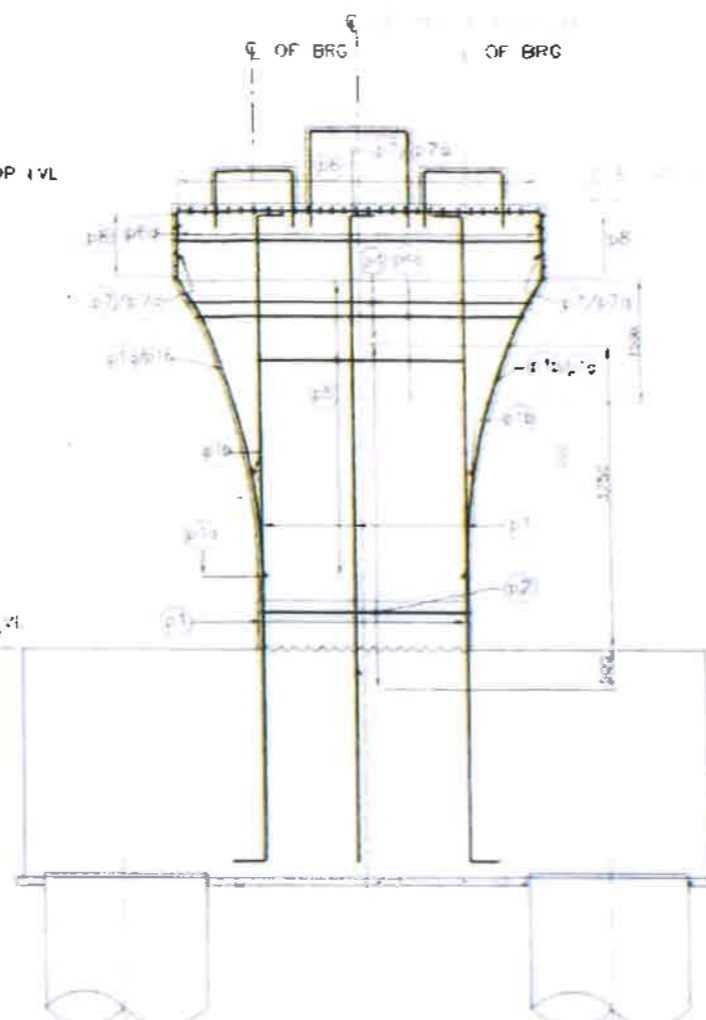
SCALE :

NTS

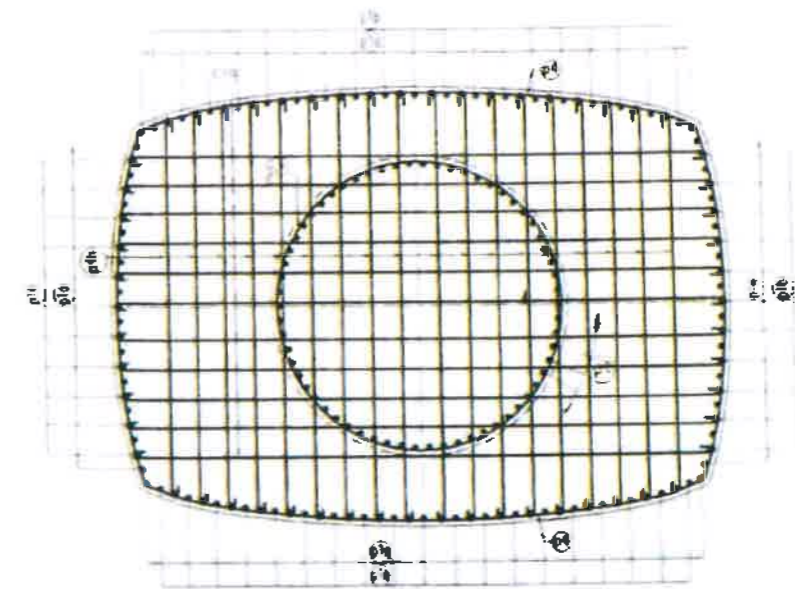
DWG NO :



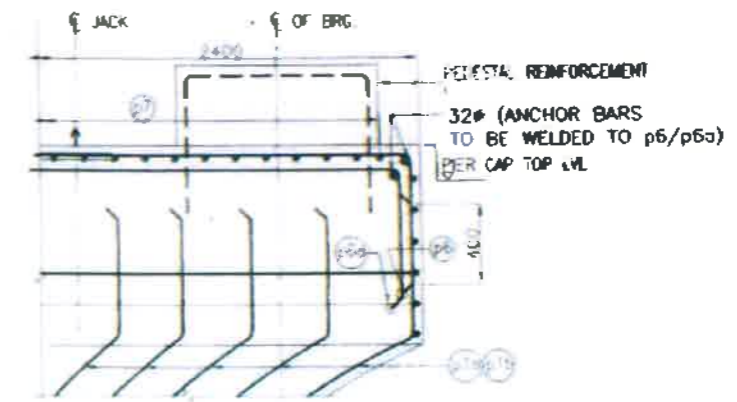
TRANSVERSE ELEVATION
(SCALE 1:50)



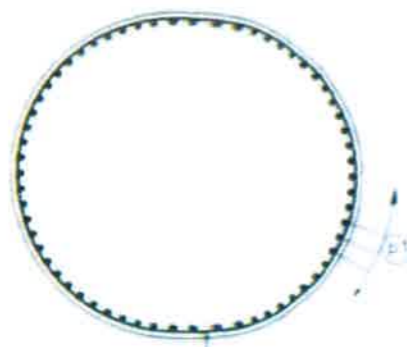
LONGITUDINAL ELEVATION
(SCALE 1:50)



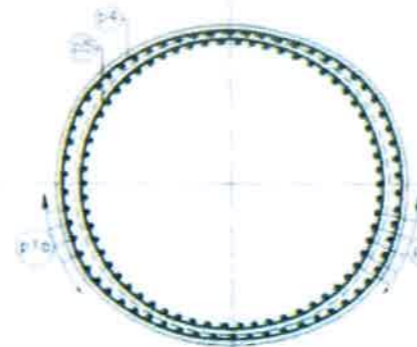
SECTION C-C'
(SCALE 1:25)



DETAIL - 'X'
(SCALE 1:10)



SECTION A-A
(SCALE 1:25)



SECTION B-B
(SCALE 1:25)

NOTE:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS, UNLESS NOTED OTHERWISE
- 2 DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED
- 3 CONCRETE SHALL BE OF GRADE M40 FOR PIER, M45 FOR PIER CAP, PIERSHAL & STOPPER
- 4 ALL REINFORCEMENT BARS ARE HIGH YIELD STRENGTH DEFORMED BARS (fy 500N) CONFORMING TO IS-1786
- 5 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 50MM UNLESS MENTIONED OTHERWISE
- 6 BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION LAP LENGTH SHALL BE KEPT AS 76 x d, WHERE d IS SMALLER DIA OF BARS BEING LAPPED
- 7 THE LOCATION OF JACKS FOR LIFTING OF THE SUPERSTRUCTURE TO REPLACE BEARING ETC IS SHOWN THIS IS TO BE STRICTLY ETCHED FOR EASY IDENTIFICATION ON THE BOB ORDERS AND PER/ADVANCEMENT CAPS
- 8 DURING THE LIFTING OPERATION ALL THE JACKS PLACED UNDER THE BOB ORDER SHALL BE OPERATED SIMULTANEOUSLY USING SINGLE OPERATING CONSOLE, GROUPING THE PUMP AND CONTROL SYSTEM, SO AS TO ENSURE THAT THE REACTIONS ON ALL THE JACKS ARE EQUAL AT ALL TIMES
- 9 CAPACITY OF EACH JACK SHALL NOT BE LESS THAN 520T



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.

PROJECT :

Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj) from Nurrudin Ghat (Ch.16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.

TITLE

**Reinforcement
Details of Pier &
Pier Cap**
(Stretch 'A')

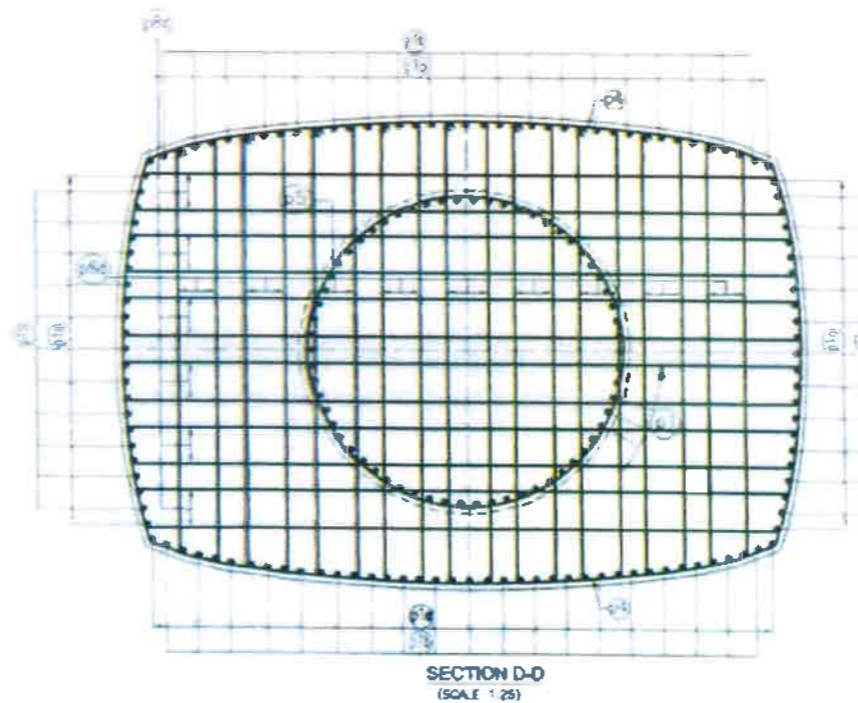
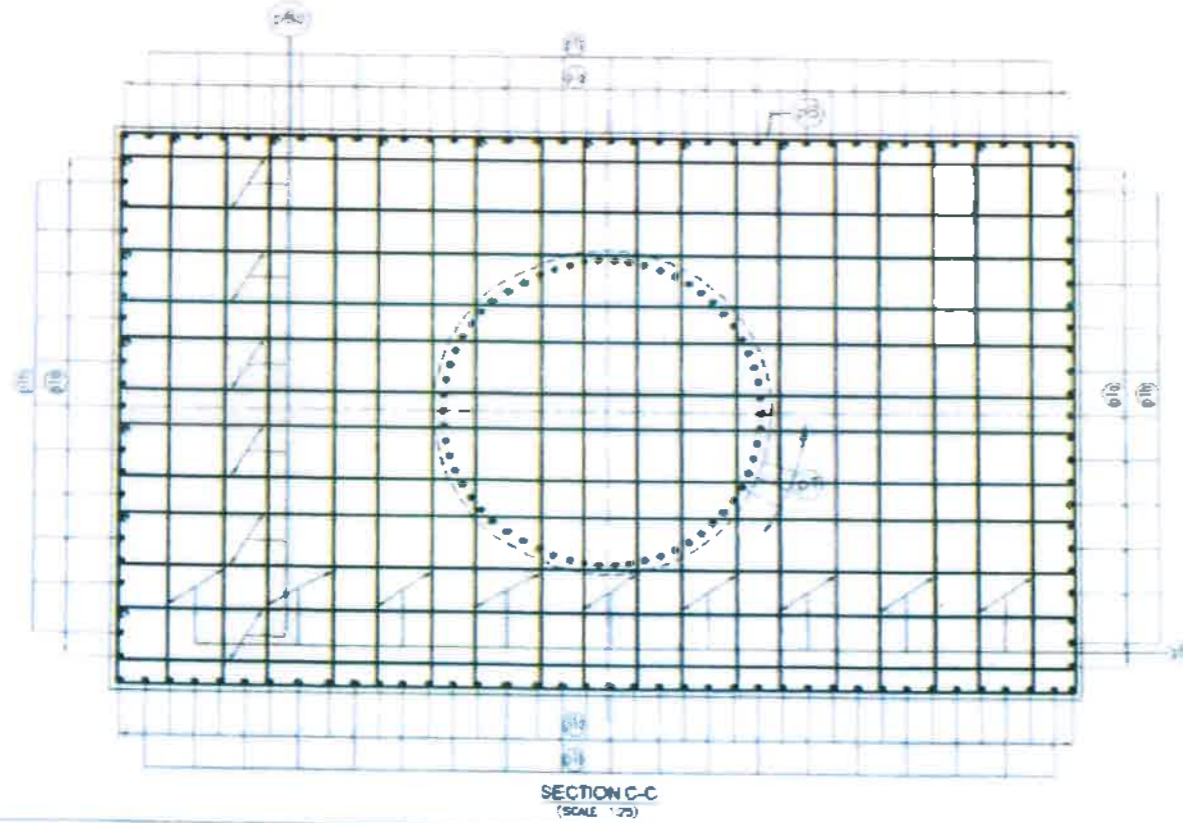
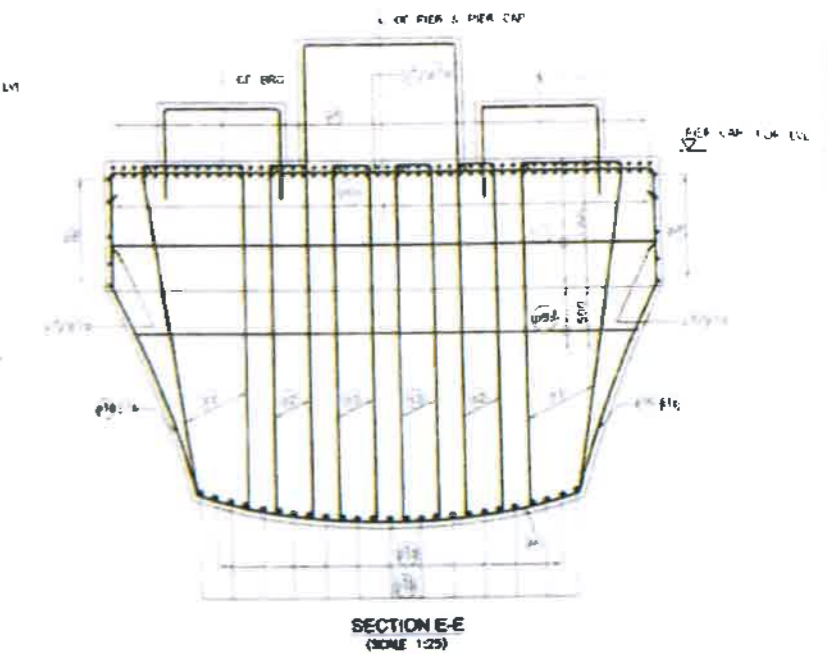
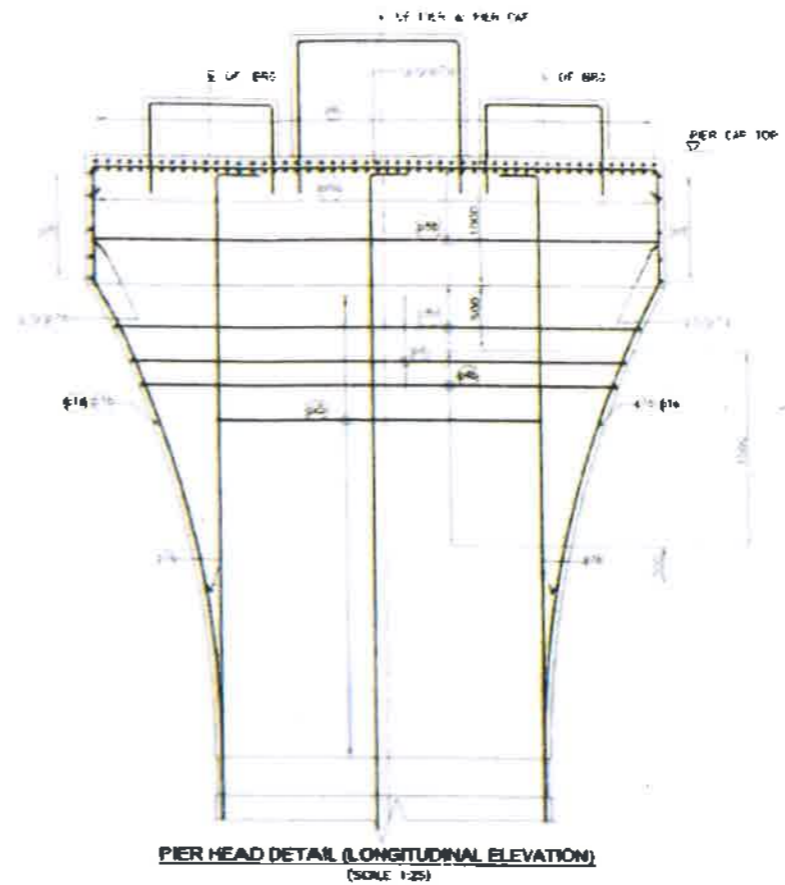
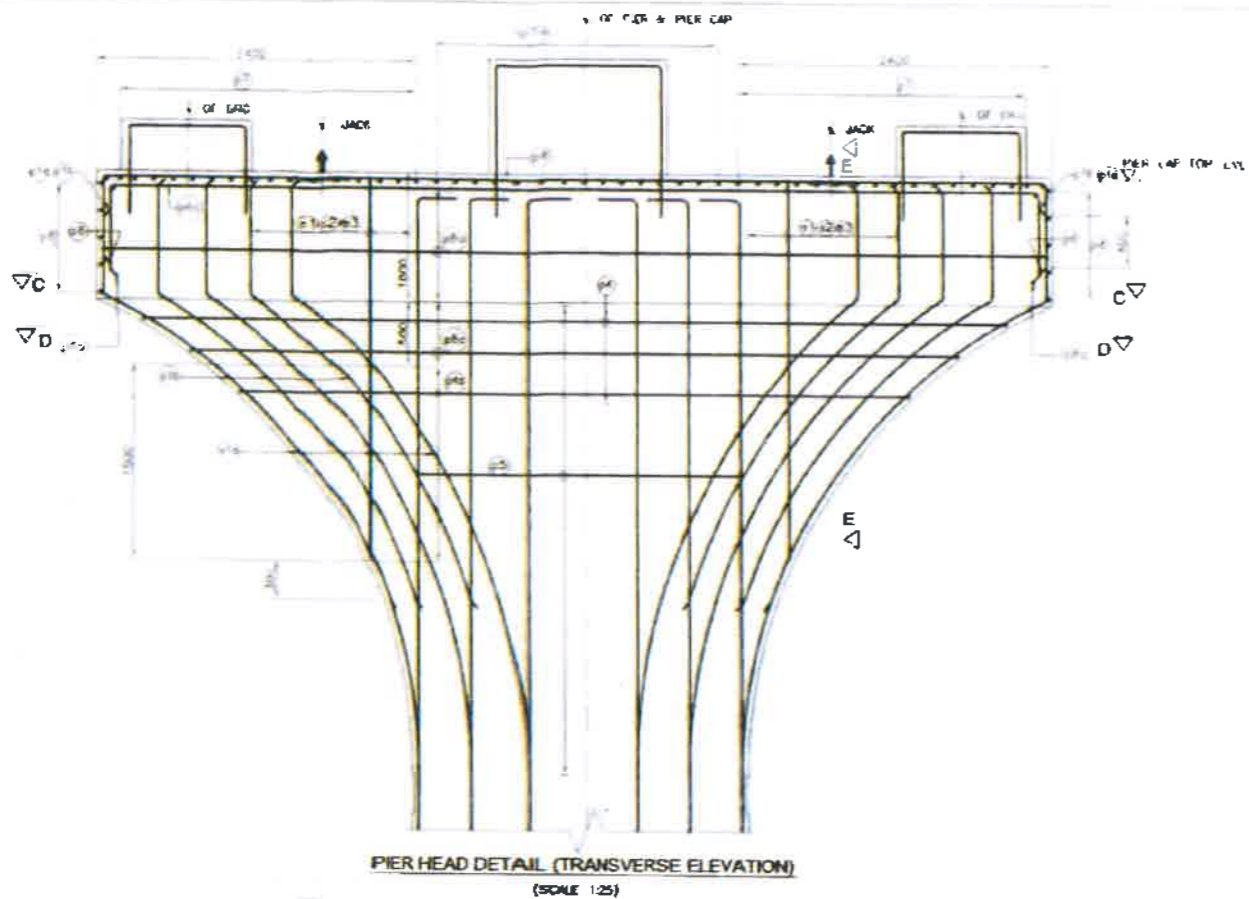
AUTHORITY ENGINEER

AECOM-RODIC JV

SCALE :

NTS

DWN NO :



NOTE:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS, UNLESS NOTED OTHERWISE
- 2 DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED
- 3 CONCRETE SHALL BE OF GRADE M45 FOR PIERS AND FOR PIER CAP, PIEDestal & STOPPER
- 4 ALL REINFORCEMENT BARS ARE HIGH YIELD STRENGTH DEFORMED BARS (Fe 500D) CONFORMING TO IS-1786
- 5 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 30MM UNLESS MENTIONED OTHERWISE
- 6 BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION LAP LENGTH SHALL BE KEPT AS 16 \times D, WHERE D IS SMALLER THE DIA OF BARS BEING LAPPED
- 7 THE LOCATION OF JACKS FOR LIFTING OF THE SUPERSTRUCTURE TO REPLACE BEARING ETC IS SHOWN THIS IS TO BE DISTINCTLY ETCHED FOR EASY IDENTIFICATION ON THE SOB ORDERS AND PIER/ABUTMENT CAPS
- 8 DURING THE LIFTING OPERATION ALL THE JACKS PLACED UNDER THE SOB ORDER SHALL BE OPERATED SIMULTANEOUSLY USING SINGLE OPERATING CONSOLE, OPERATING THE PLUMB AND CONTROL SYSTEM SO AS TO ENSURE THAT THE REACTIONS ON ALL THE JACKS ARE EQUAL AT ALL TIMES
- 9 CAPACITY OF EACH JACK SHALL NOT BE LESS THAN 520T



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.

PROJECT :

Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj from Nurrudin Ghat (Ch.16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.

TITLE

**Reinforcement
Details of Pier & Pier
Cap**
(Stretch 'A')

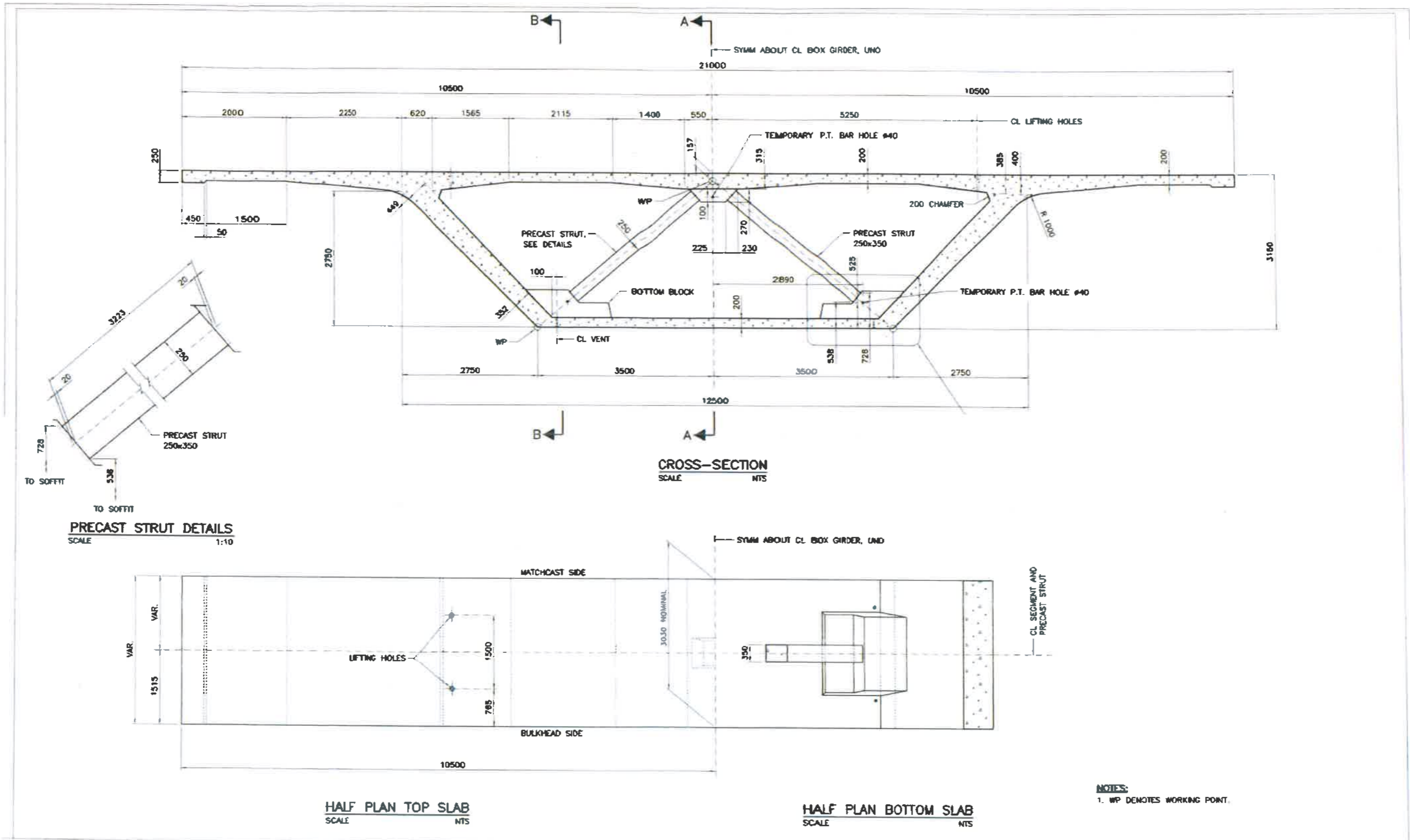
AUTHORITY ENGINEER

AECOM-RODIC JV


SCALE :

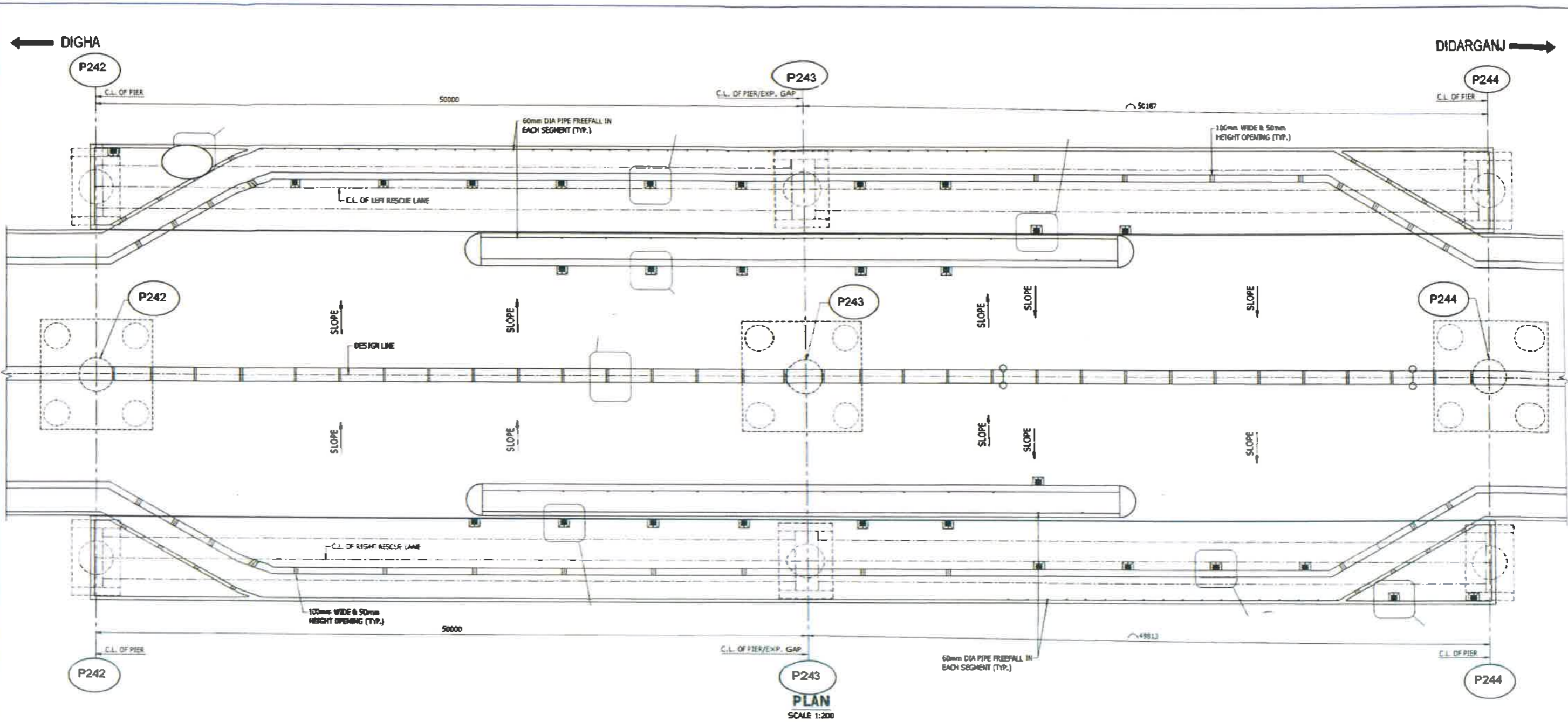
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DWN NO :




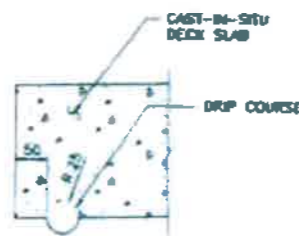
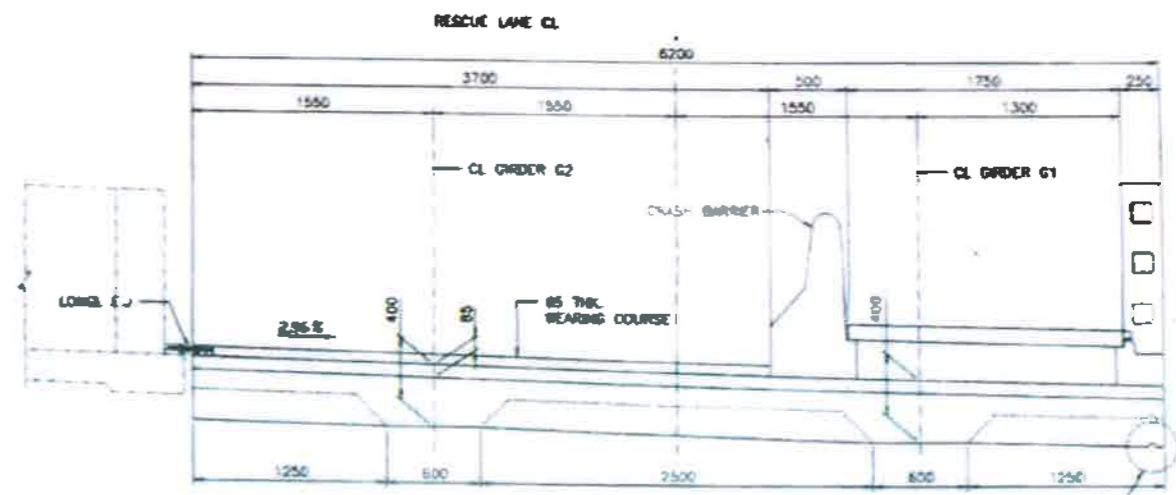
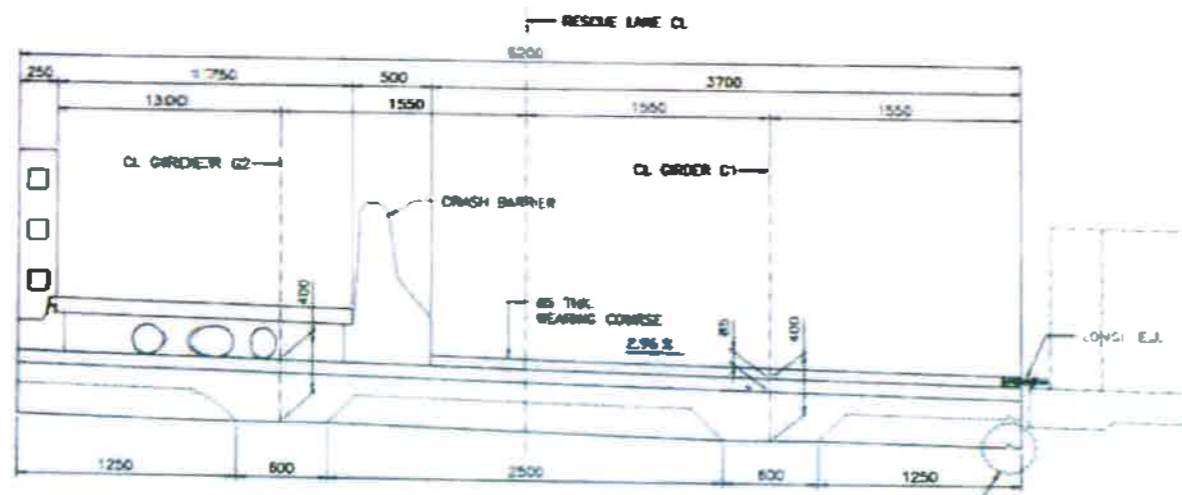
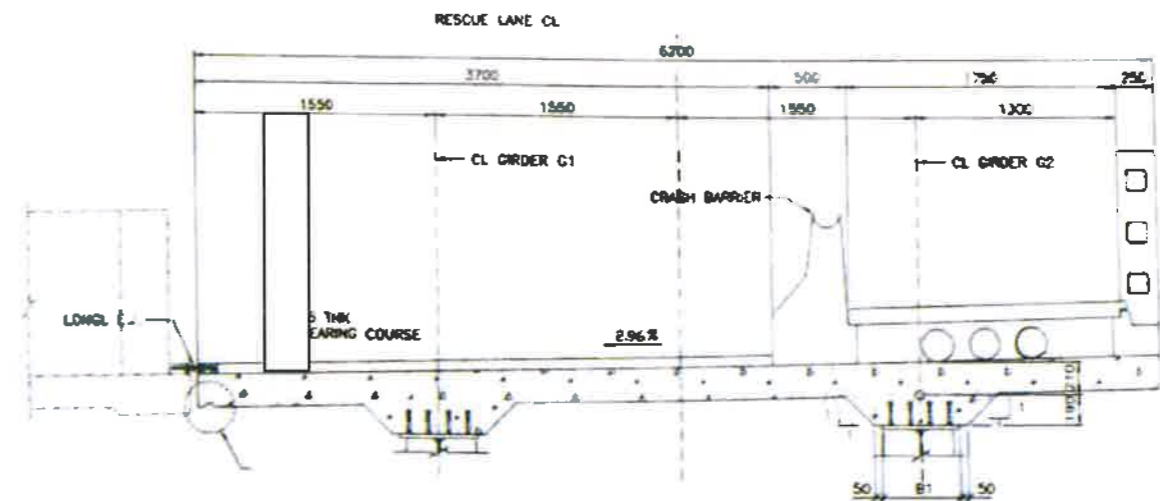
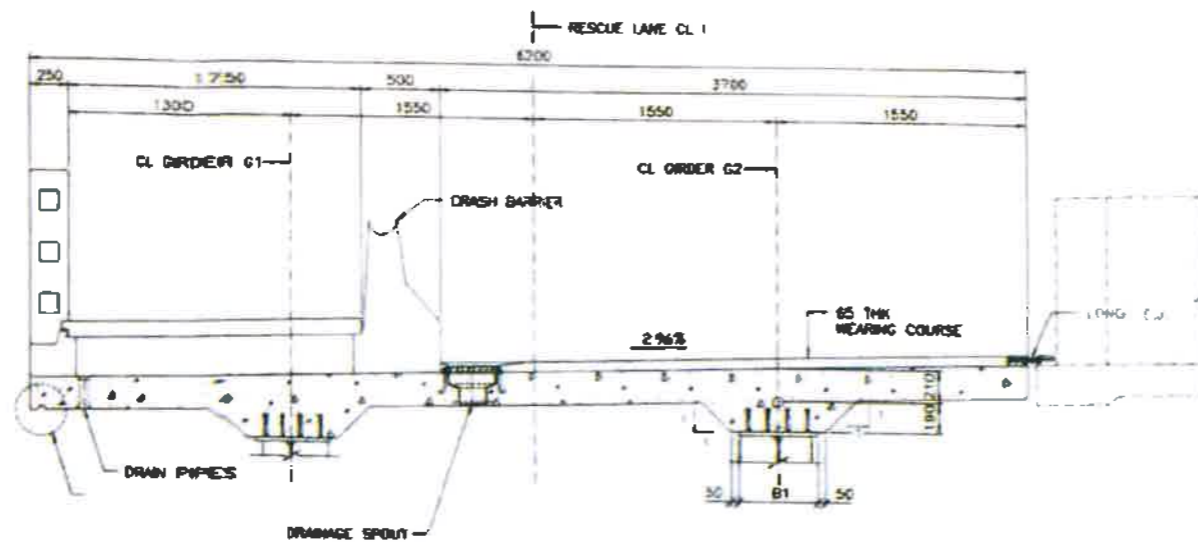
NOTES:
1. WP DENOTES WORKING POINT.

	<p>BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.</p>	<p>TITLE</p> <p>Typical Drawing for Field Segment (Stretch 'A')</p>		<p>AUTHORITY ENGINEER</p> <p>AECOM-RODIC JV</p>	
		<p>PROJECT : Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj from Nurrudin Ghat (Ch. 16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deeraganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.</p>		<p>SCALE :</p> <p>NTS</p>	<p>DWN NO :</p>
		<p>SCALE</p> <p>NTS</p>		<p>SCALE :</p> <p>NTS</p>	



- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER UNLESS NOTED OTHERWISE.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- LEGEND:-**
- C.L. - CENTER LINE
 - EXP. - EXPANSION JOINT
 - BRG. - BEARING

	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE Rescue Lane (Stretch 'A')	AUTHORITY ENGINEER AECOM-RODIC JV	SCALE : NTS
	PROJECT : Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj) from Nurrudin Ghat (Ch.16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.			DWN NO :



DETAIL 1
SCALE 1:5

NOTES:
1. GRADE OF CONCRETE FOR DECK SLAB SHALL BE M50.

- CONSTRUCTION SEQUENCE SHALL BE AS UNDER:
1. ERECT THE STEEL I-GIRDER
 2. ERECT STAGING AND SHUTTERING OF RC TOP SLAB SUPPORTED FROM BOTTOM FLANGE OF THE BEAMS.
 3. CAST THE TOP RC SLAB
 4. CAST CRASH BARRIERS.
 5. PLACE WEARING COURSE



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.

PROJECT :

Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj from Nurrudin Ghat (Ch. 16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.

TITLE
Rescue Lane

(Stretch 'A')

AUTHORITY ENGINEER

AECOM-RODIC JV

SCALE :

NTS

DWN NO :

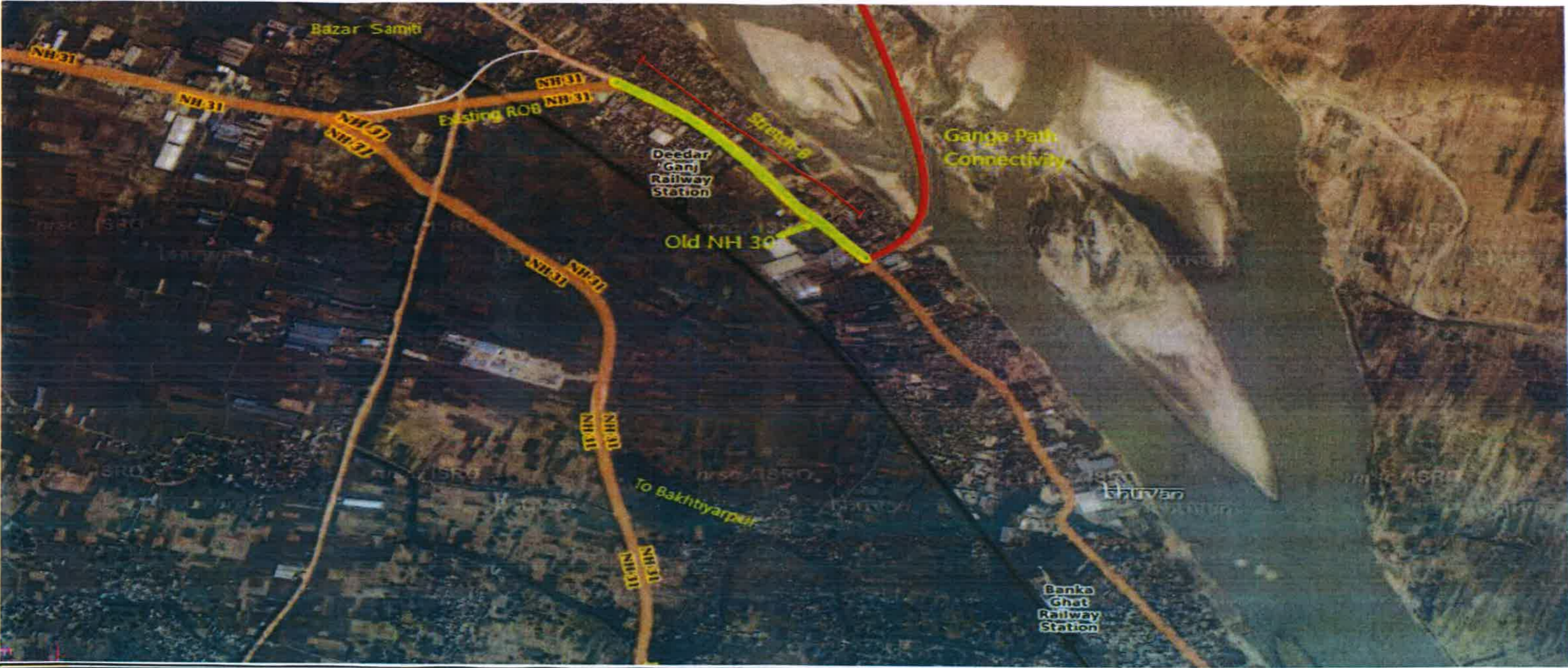
Table of Content (Stretch 'B')


Sl. No.	Description	Page No.
1.	Typical Cross- Section: (a) TCS for Widening of Existing Road (TCS-4)	

3. Typical Cross-Section (Stretch 'B')

(a) TCS for Widening of Existing Road (TCS-4)


Alignment Drawing Stretch-β Junction of Ganga Path to ROB Approach

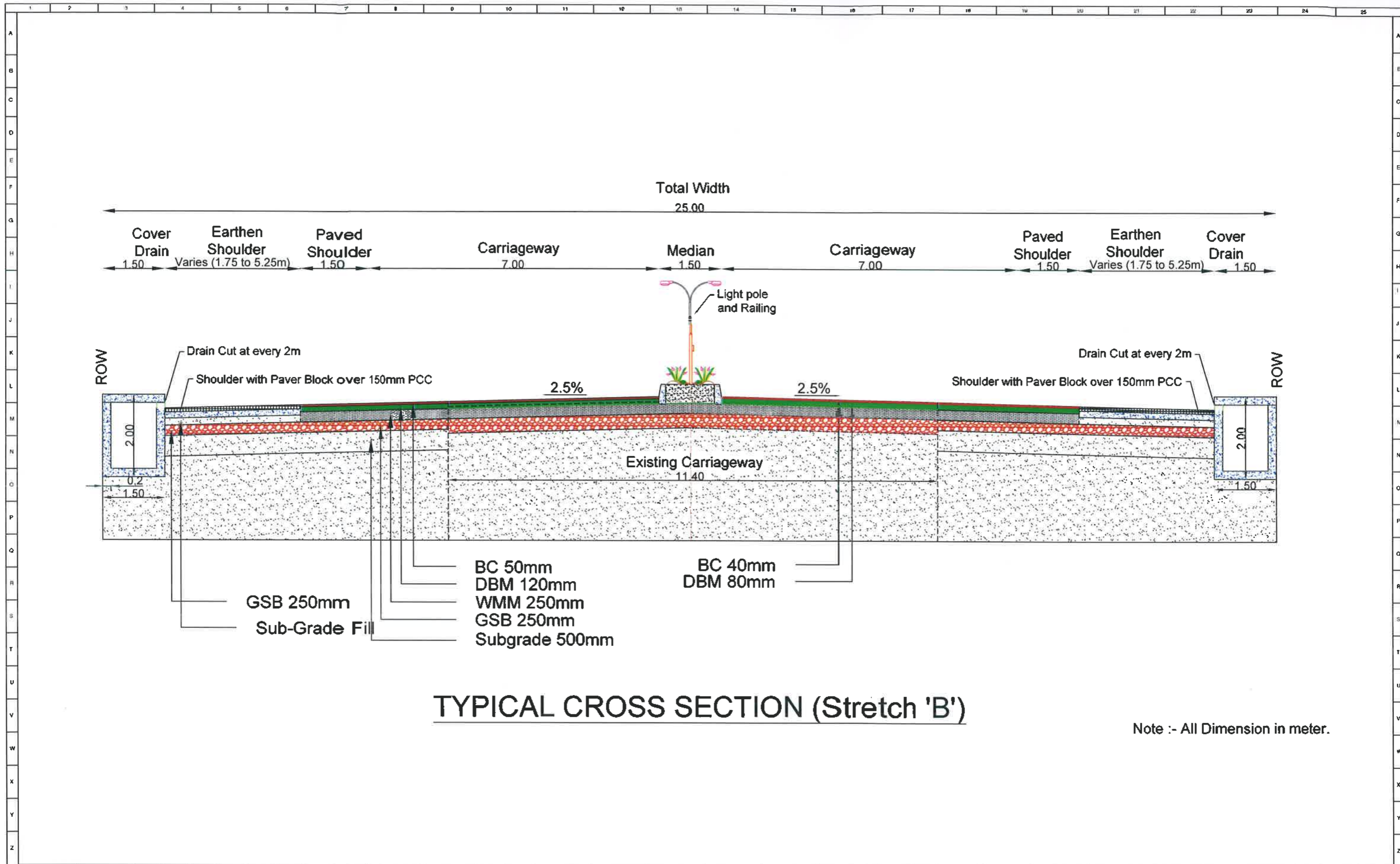


	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE	AUTHORITY ENGINEER		
PROJECT :	Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deerarganj from Nurrudin Ghat (Ch. 16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.	Jr. of Gangappath to ROB Google Map (Stretch 'B')	AECOM-RODIC JV	SCALE :	NTS
				DWN NO :	

EXISTING ROAD CENTER LINE CO-ORDINATE STRETCH 'B'

CHAINAGE	EASTING	NORTHING	RL	REMARKS
00+000	325543.587	2828982.062	49.830	JP GANGA PATH PROJECT END POINT AT @ CH. 20+530 OF SH-106 (OLD NH 30)
00+055	325514.782	2829029.411	49.886	
00+107	325487.003	2829073.421	50.050	
00+159	325459.198	2829117.027	50.105	
00+196	325439.118	2829147.806	50.317	
00+220	325424.763	2829167.667	50.389	
00+247	325407.550	2829189.143	50.400	
00+281	325384.776	2829213.895	50.380	
00+331	325348.541	2829249.084	50.293	
00+381	325310.734	2829281.723	50.376	
00+432	325268.210	2829309.725	50.422	
00+482	325226.296	2829336.711	50.355	
00+535	325182.069	2829365.312	50.349	
00+590	325137.457	2829396.012	50.018	
00+634	325100.203	2829419.811	50.159	EXISTING ROB

	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE	AUTHORITY ENGINEER		
	PROJECT : Construction of 4-lane Elevated Road as a part of J.P Ganga Path (Digha to Deeraganj from Numudin Ghat (Ch.16+975.79 Km) to Dharamshala Ghat (Ch. 19+890 Km) (Length 2.914 km) with allied facilities and Widening and Strengthening of Existing Road to 4-Lane from the junction of J.P Ganga Path at Deedarganj (Ch. 20+500 km) to ROB approach on SH-106 (Old NH-30) Length-750 Mtr.) & Development of 4 lane road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna in the State of Bihar on EPC Mode.	Center Liner Co-ordinates of Ganga Path End Point to Existing ROB (Stretch 'B')	AECOM-RODIC JV	SCALE :	NTS
				DWN NO :	



TYPICAL CROSS SECTION (Stretch 'B')

Note :- All Dimension in meter.


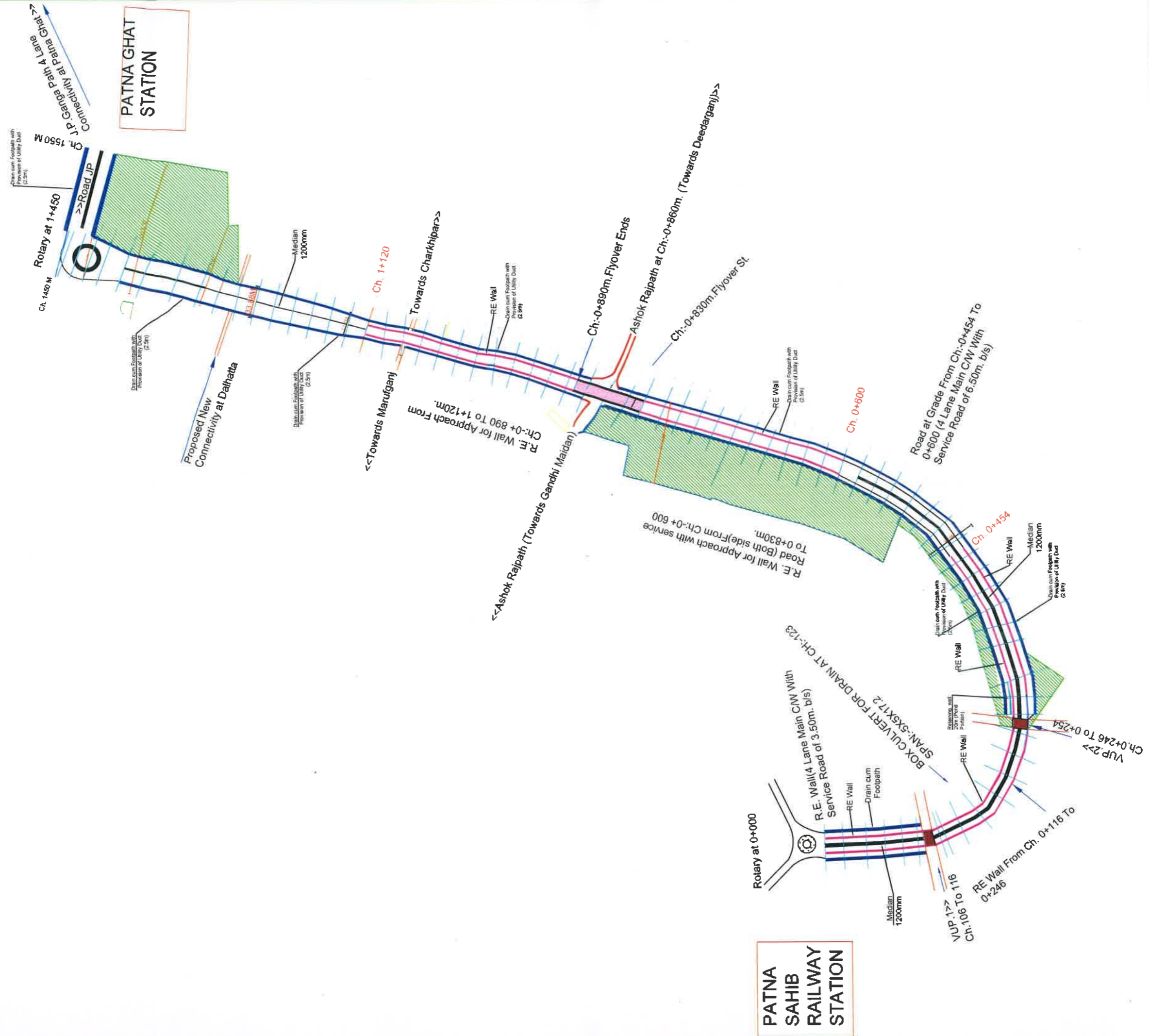
	<p>BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.</p>	<p>TITLE Typical Cross Section-4 Stretch - 'B'</p>	<p>AUTHORITY ENGINEER AECOM - RODIC JV</p>	<p>SCALE :</p>	<p>NTS</p>
<p>PROJECT:</p>	<p>"Construction of 4-Lane Elevated Road as a part of JP Ganga Path (Digha to Deedarganj from Naruddin Ghat (Km. 16+975.79 Km) to Dharamshala Ghat (Km. 19+890 Km) (length: 2.914 Km) with allied facilities and Widening and Strengthening of existing Road to 4-Lane the Junction of JP Ganga Path at Deedarganj (Ch: 20+500 Km) to ROB approach on SH-106(old NH-30) (length-750 Mtr.) at Patna in the State of Bihar on EPC mode"</p>	<p>DWG NO :</p>			

Table of Content (Stretch 'C')

Sl. No.	Description	Page No.
1.	Plan and Profile:- Main Carriage-way	
2.	Typical Cross- Section: (a) Typical Cross Section-5 (b) Typical Cross Section-6 (c) Typical Cross Section-7 (d) Typical Cross Section-8 (e) Typical Cross Section-9 (f) Typical Cross Section-10 (g) Typical Cross Section-11 (h) Typical Cross Section-12 (i) Typical Cross Section-13	
3.	MCW Center Line Co-ordinates	

Development of 4 lane Road from Patna Sahib Railway Station (Ch. 0+000) to Patna Ghat (Ch.1+550) in Replacement of existing old railway line of Patna Sahib-Patna Ghat at Patna.

Stretch-‘C’



PATNA SAHIB RAILWAY STATION

PATNA GHAT STATION

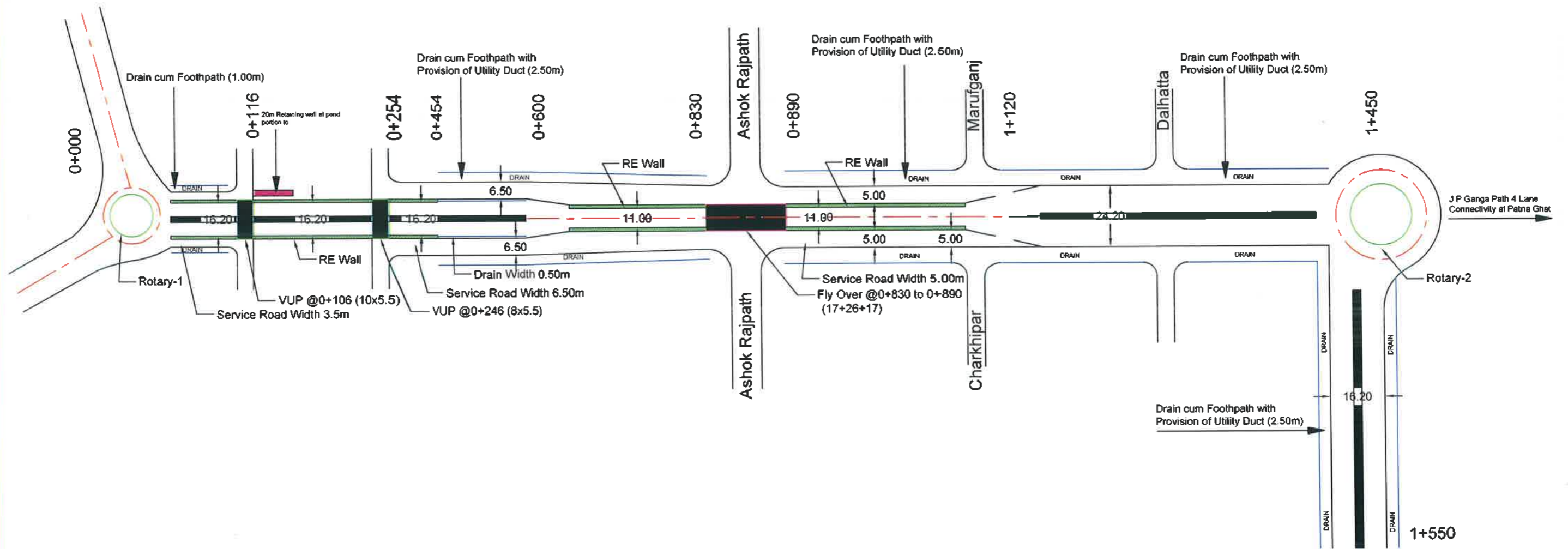
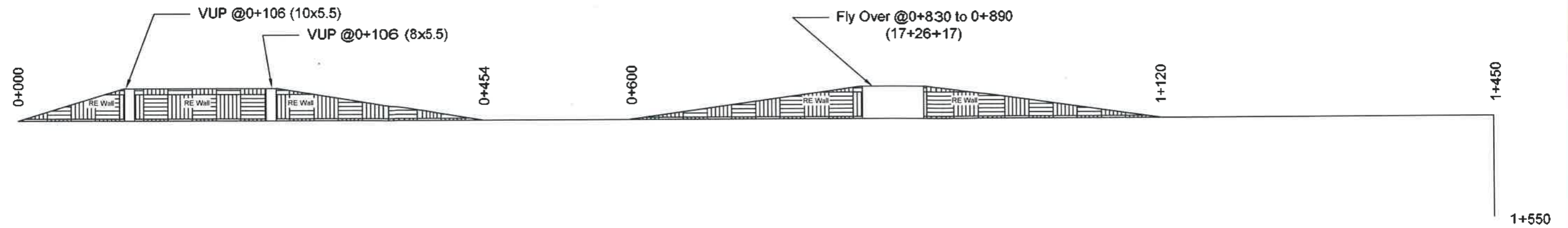
PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deeranganj) from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhrameshale ghat (Ch. 19+860 Km.) (length 2.914 km.) with allied facilities and widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deedarganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length: 750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode


TITLE
PLAN
Stretch - 'C'

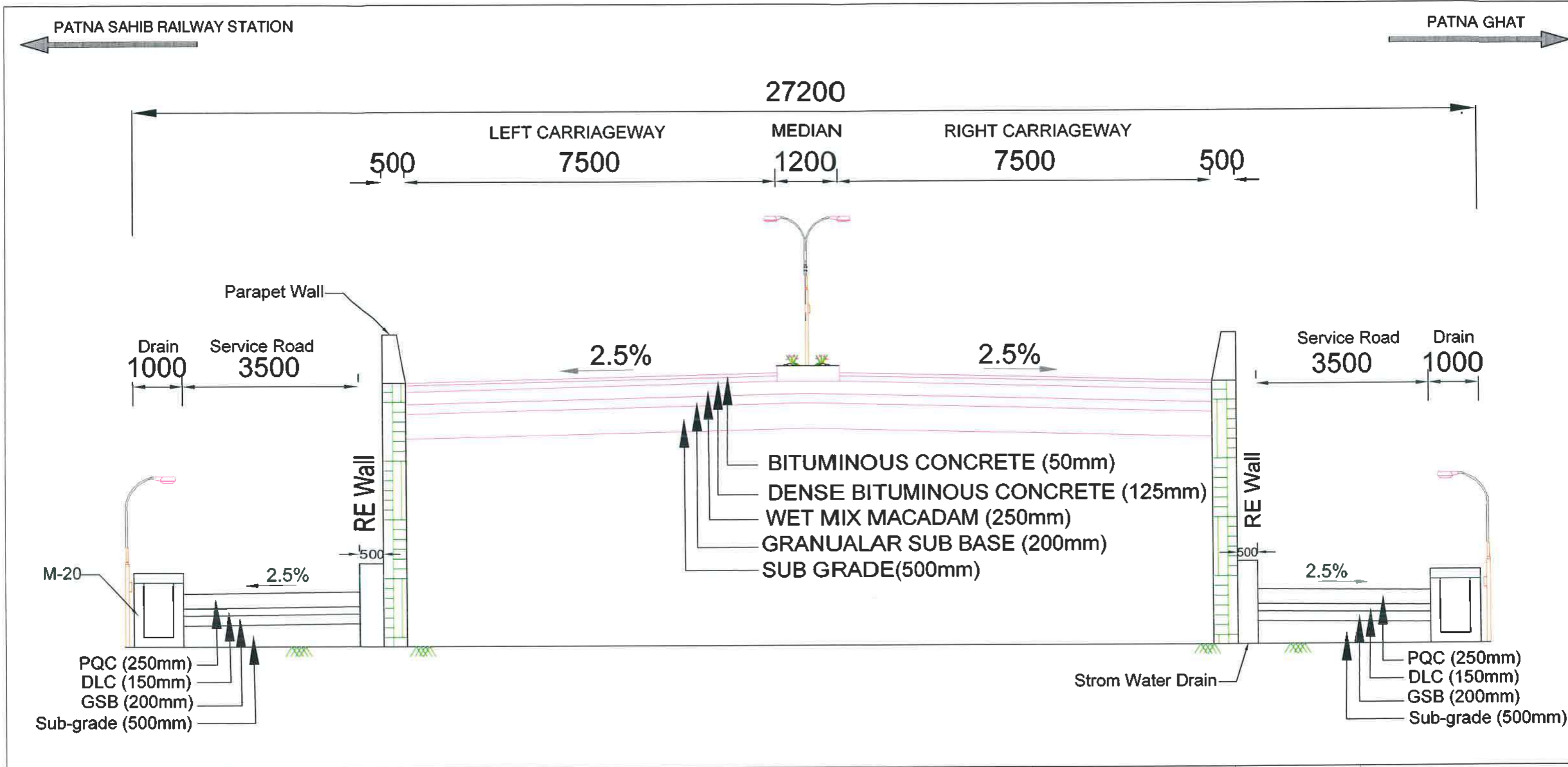
AUTHORITY ENGINEER
AECOM - RODIC JV

SCALE : NTS
DWG NO :

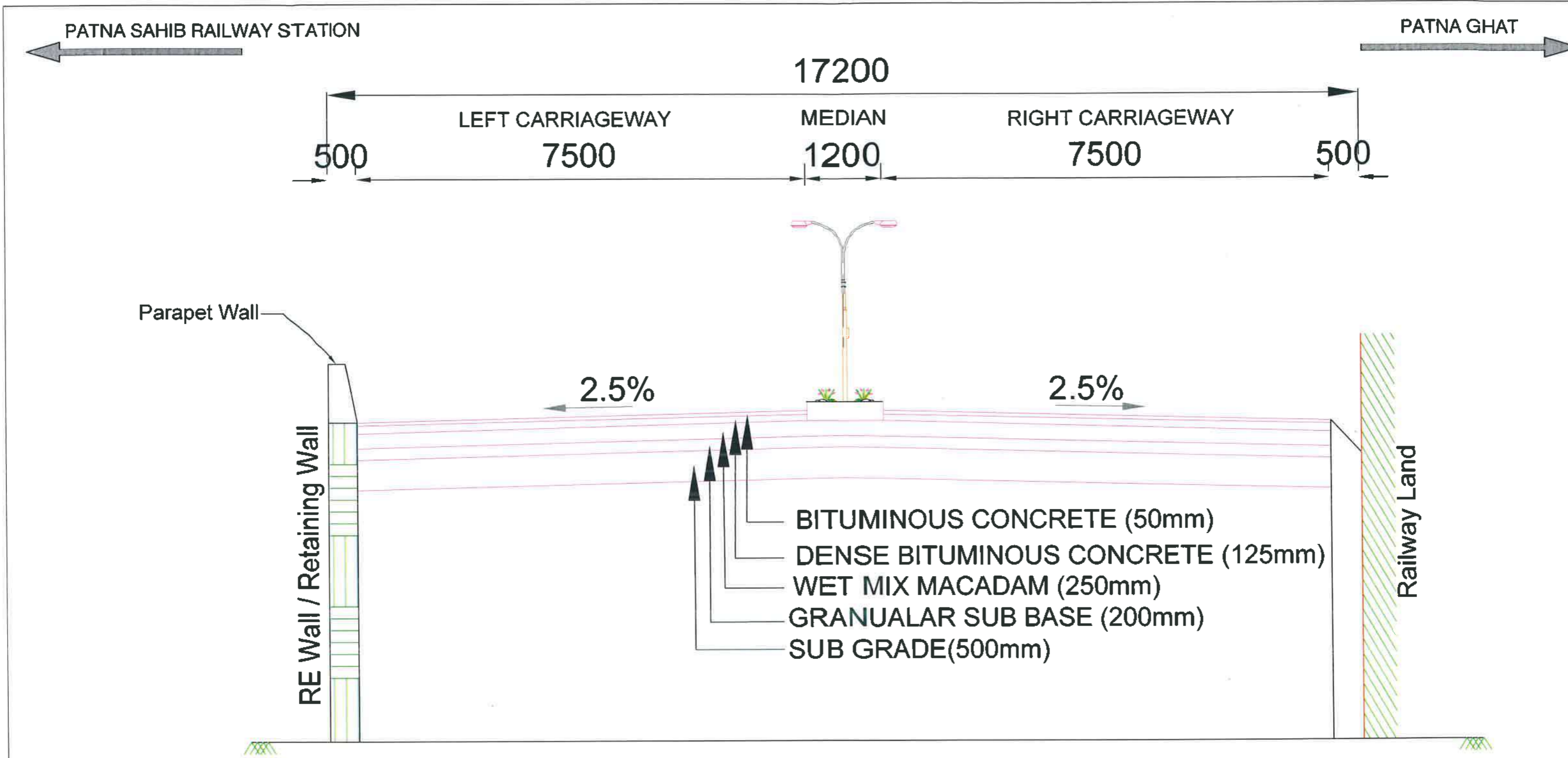
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.
Road construction Department, Government of Bihar.




	<p align="center">BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.</p>	<p align="center">TITLE PLAN & PROFILE Stretch - 'C'</p>	<p align="center">AUTHORITY ENGINEER AECOM - RODIC JV</p>	<p>TCS No.</p>	
<p>PROJECT:</p>	<p>Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode</p>			<p>SCALE :</p>	<p align="center">NTS</p>
				<p>DWG NO :</p>	

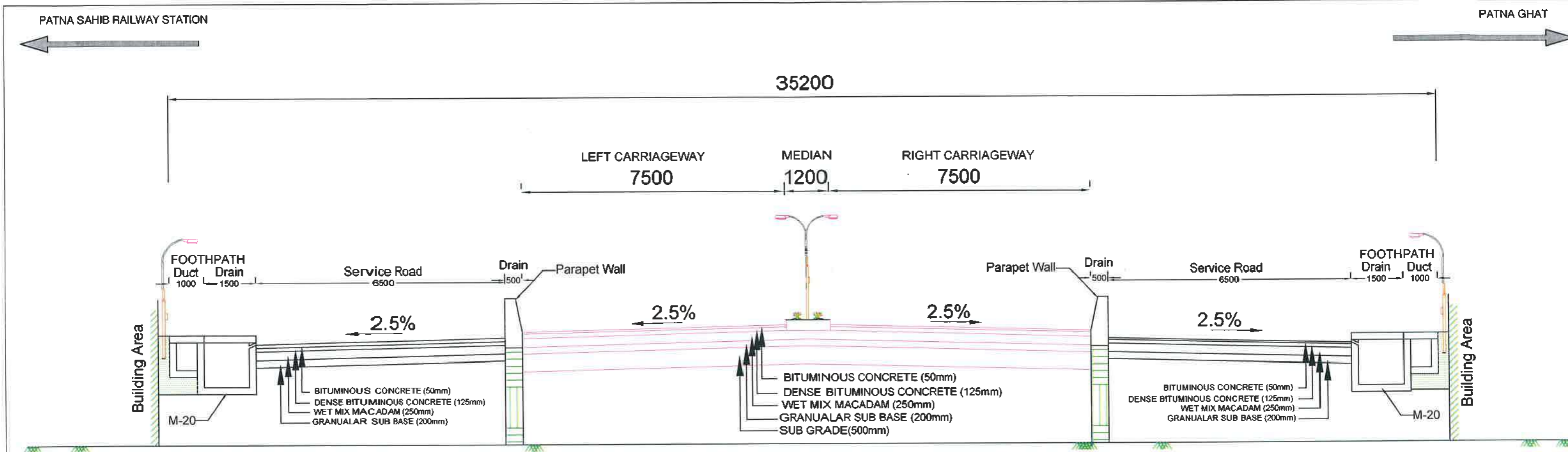



PROJECT:	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar. Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode	TITLE	AUTHORITY ENGINEER	TCS No.	5
		PROPOSED TYPICAL CROSS SECTION -ELEVATED CORRIDOR CH-0+000 TO 0+106 Stretch - 'C'	AECOM - RODIC JV	SCALE :	NTS
				DWG NO :	

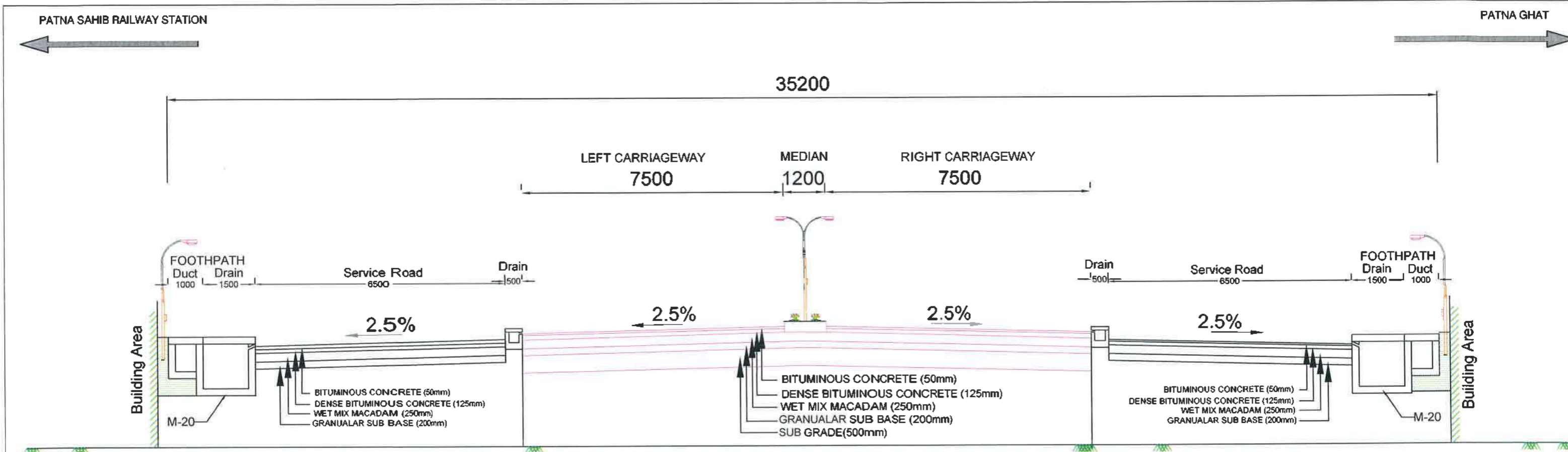


	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE PROPOSED TYPICAL CROSS SECTION CH-0+116 TO 0+254 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No.	6
				SCALE :	NTS
				DWG NO :	

PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deeraganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode



PROJECT:	 BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE PROPOSED TYPICAL CROSS SECTION AT GRADE CH-0+254 TO 0+454 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No. 7	
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				DWG NO :	

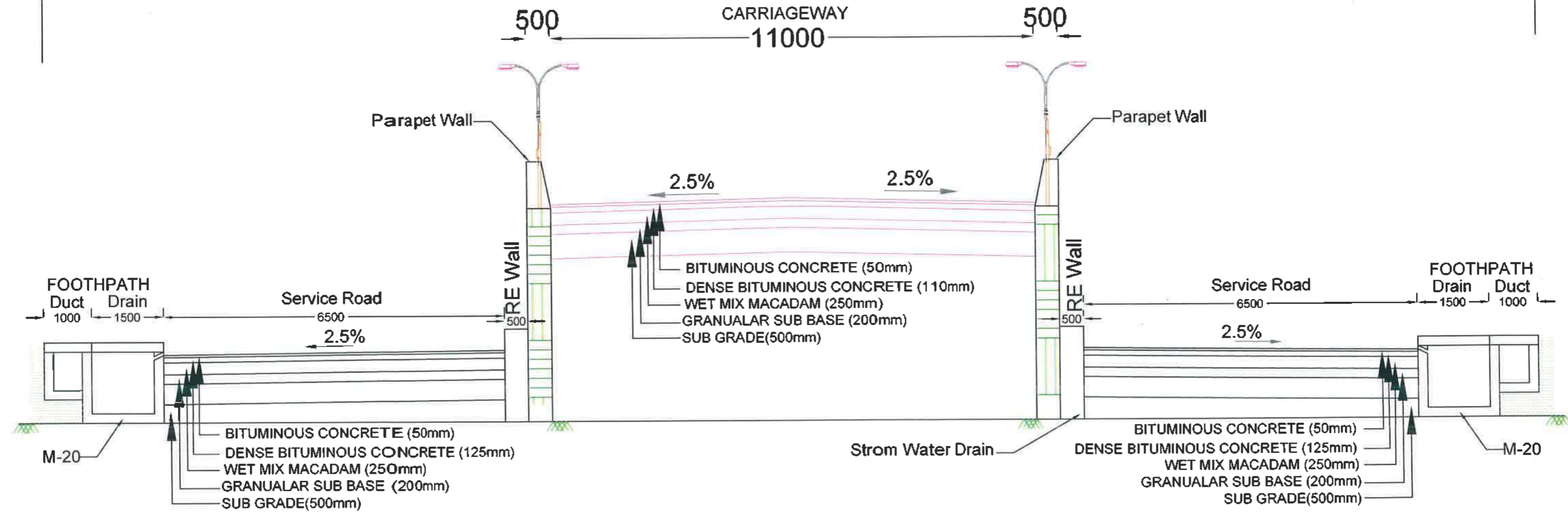


	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE PROPOSED TYPICAL CROSS SECTION AT GRADE CH-0+454 TO 0+600 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No. 8
	PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode			SCALE : NTS
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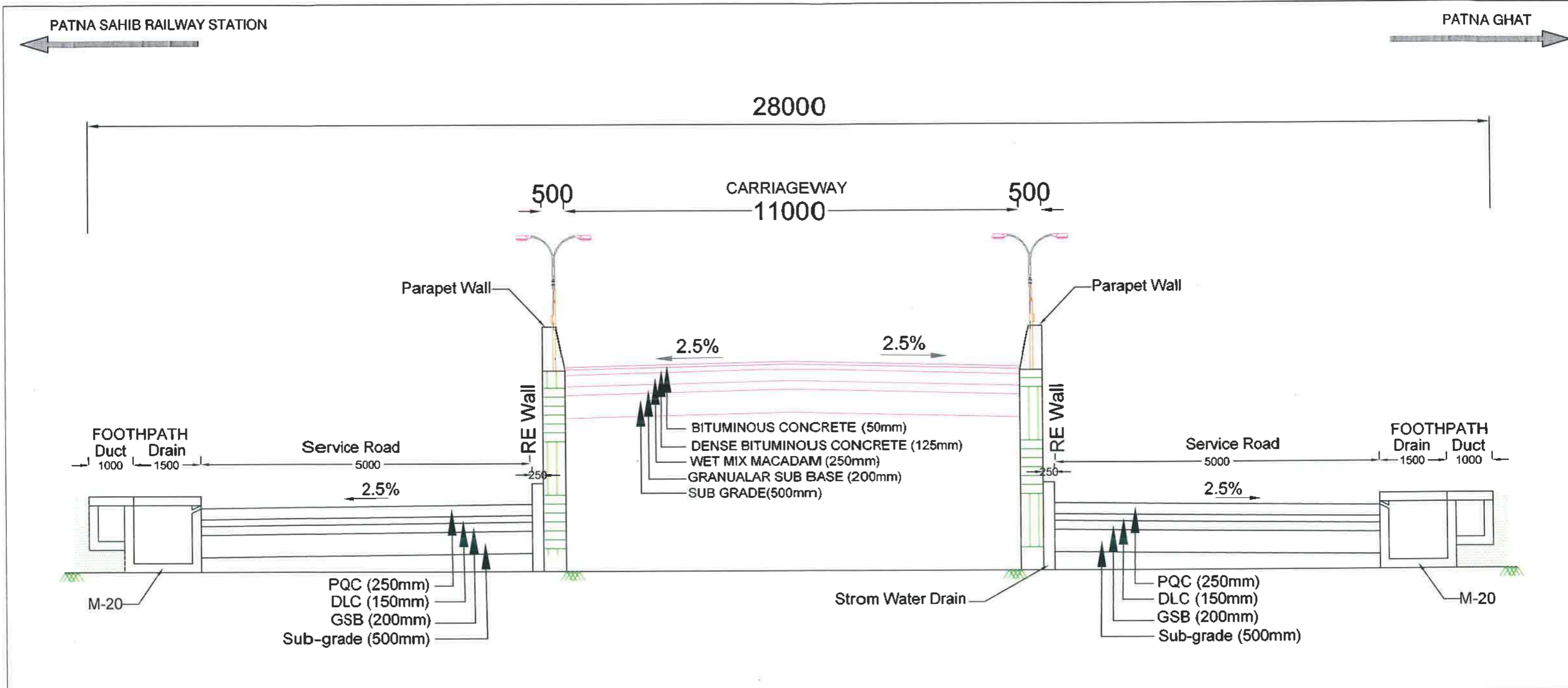
PATNA SAHIB RAILWAY STATION

PATNA GHAT

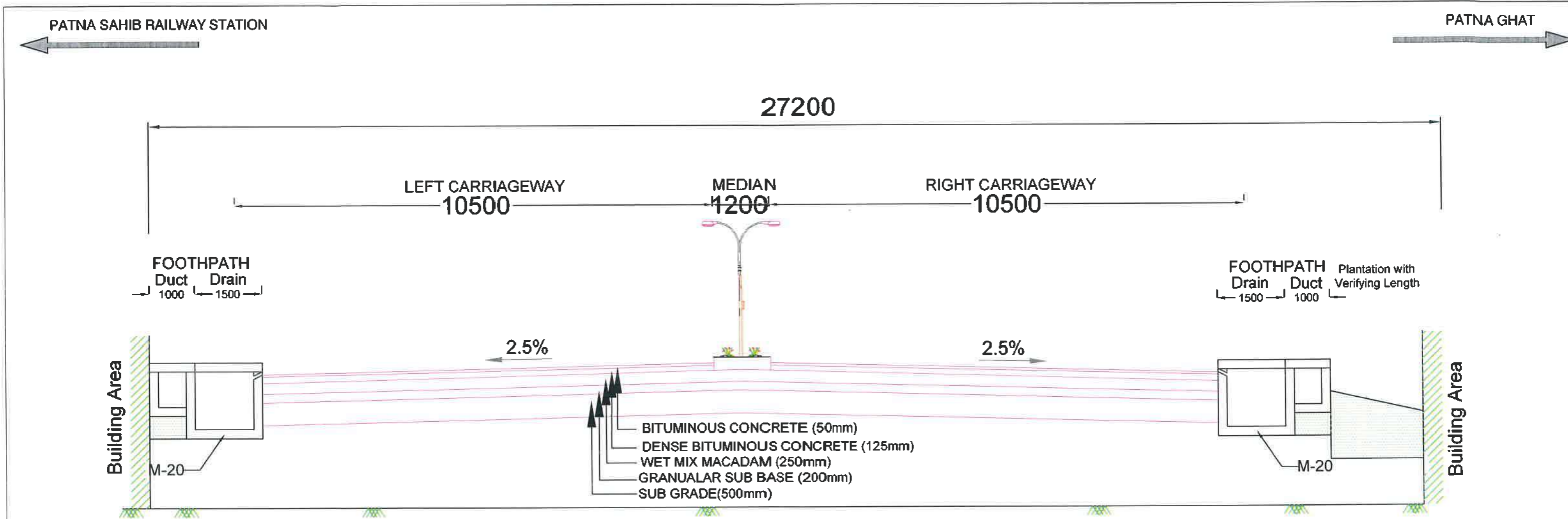
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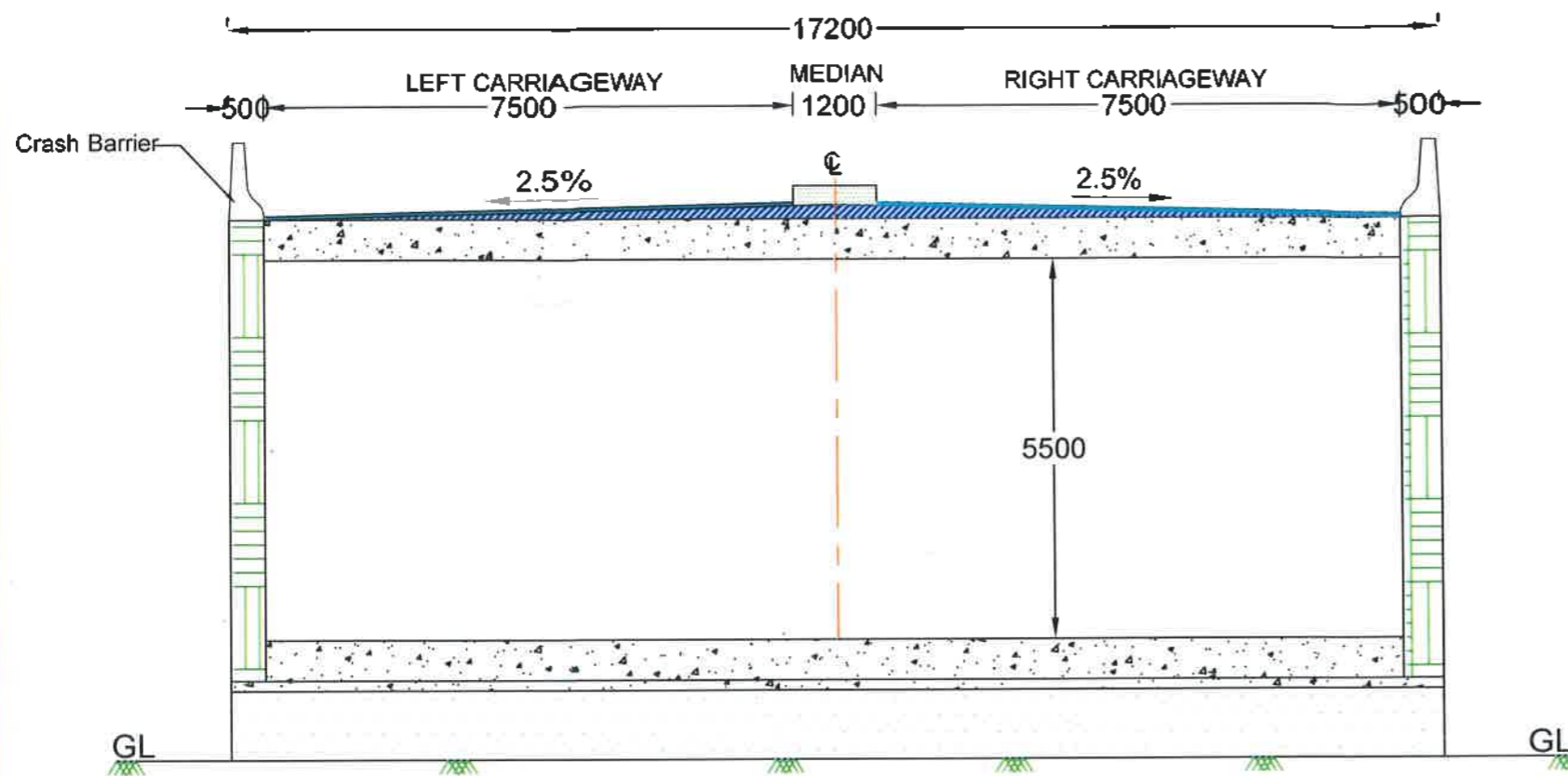
	<p>BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.</p>	<p>TITLE PROPOSED TYPICAL CROSS SECTION CH-0+600 TO 0+830 Stretch - 'C'</p>	<p>AUTHORITY ENGINEER AECOM - RODIC JV</p>	<p>TCS No. 9</p>	
<p>PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode</p>				<p>SCALE : NTS</p>	
				<p>DWG NO :</p>	



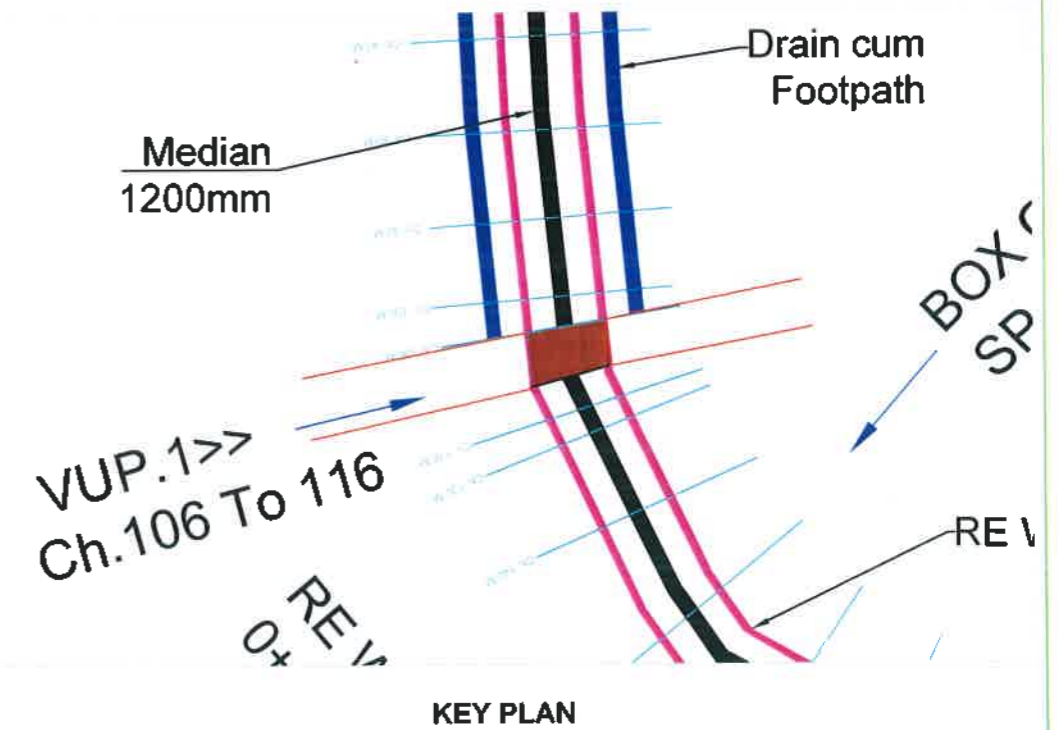
	<p align="center">BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.</p>	<p align="center">TITLE PROPOSED TYPICAL CROSS SECTION CH-0+890 TO 1+120 Stretch - 'C'</p>	<p align="center">AUTHORITY ENGINEER AECOM - RODIC JV</p>	<p>TCS No. 10</p>
<p>PROJECT:</p>	<p>Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode</p>			<p>SCALE : NTS</p>
				<p>DWG NO :</p>



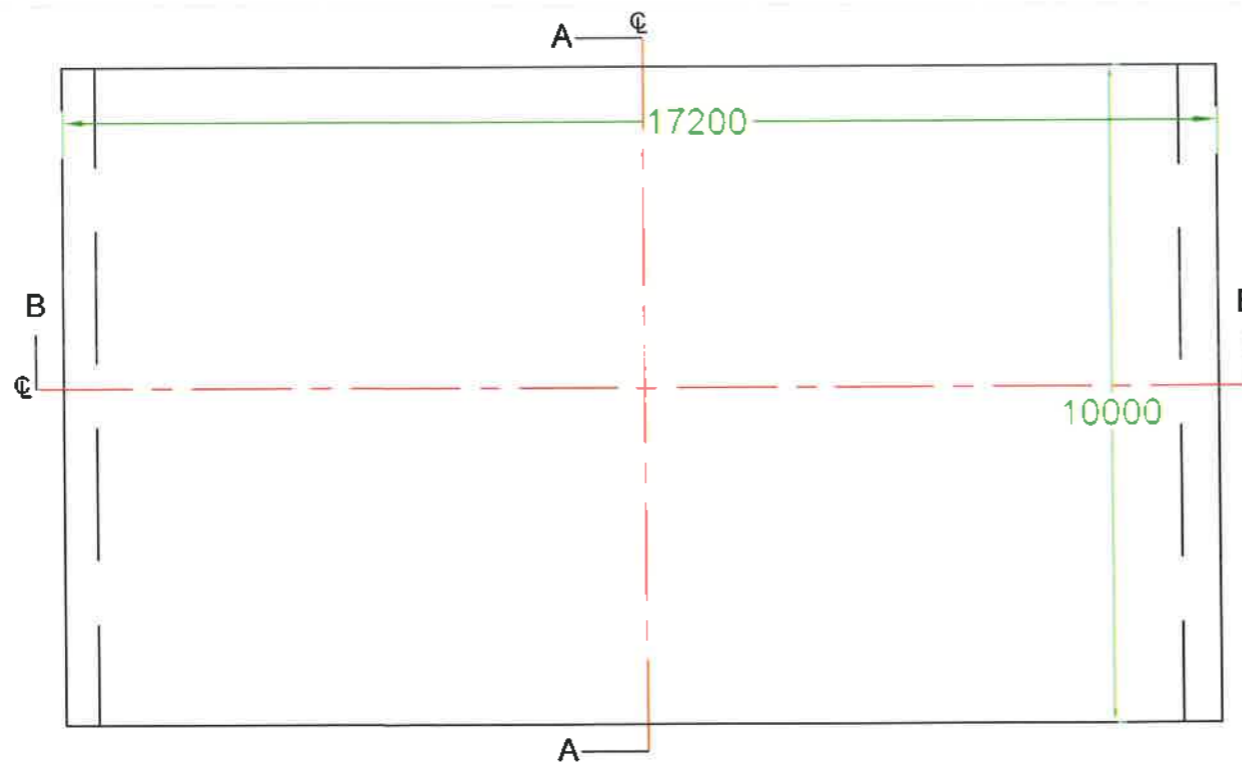
PROJECT:	 BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE TYPICAL CROSS SECTION AT GRADE CH-1+120 to 1+450 and 1+450 to 1+550 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No. 11	
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				DWG NO :	



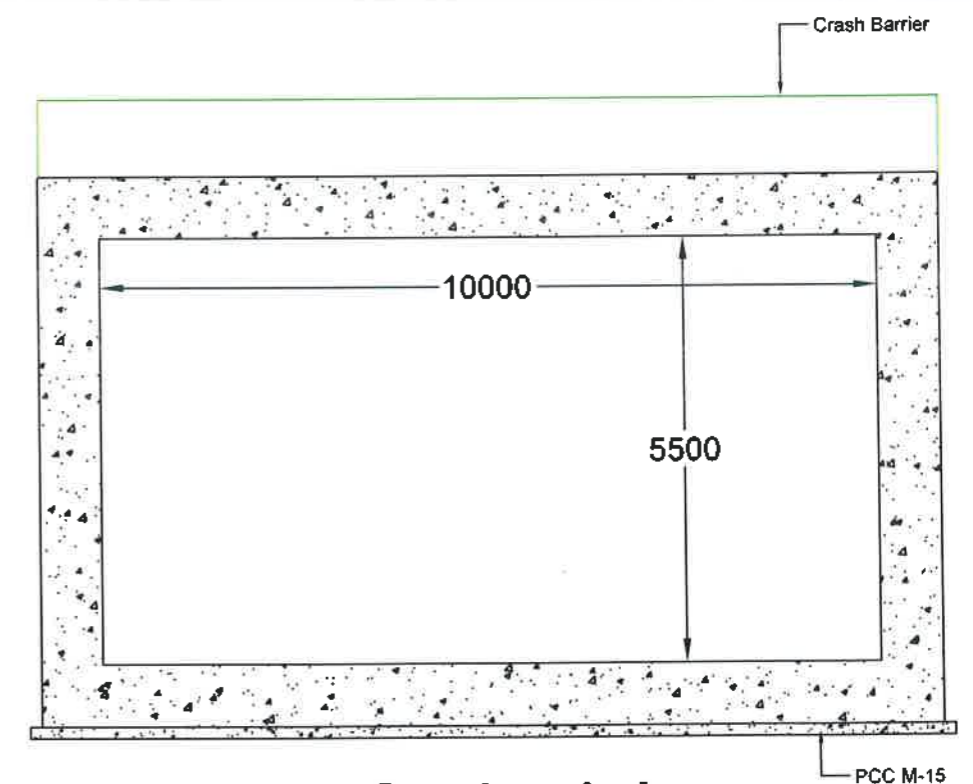
Section B-B




KEY PLAN

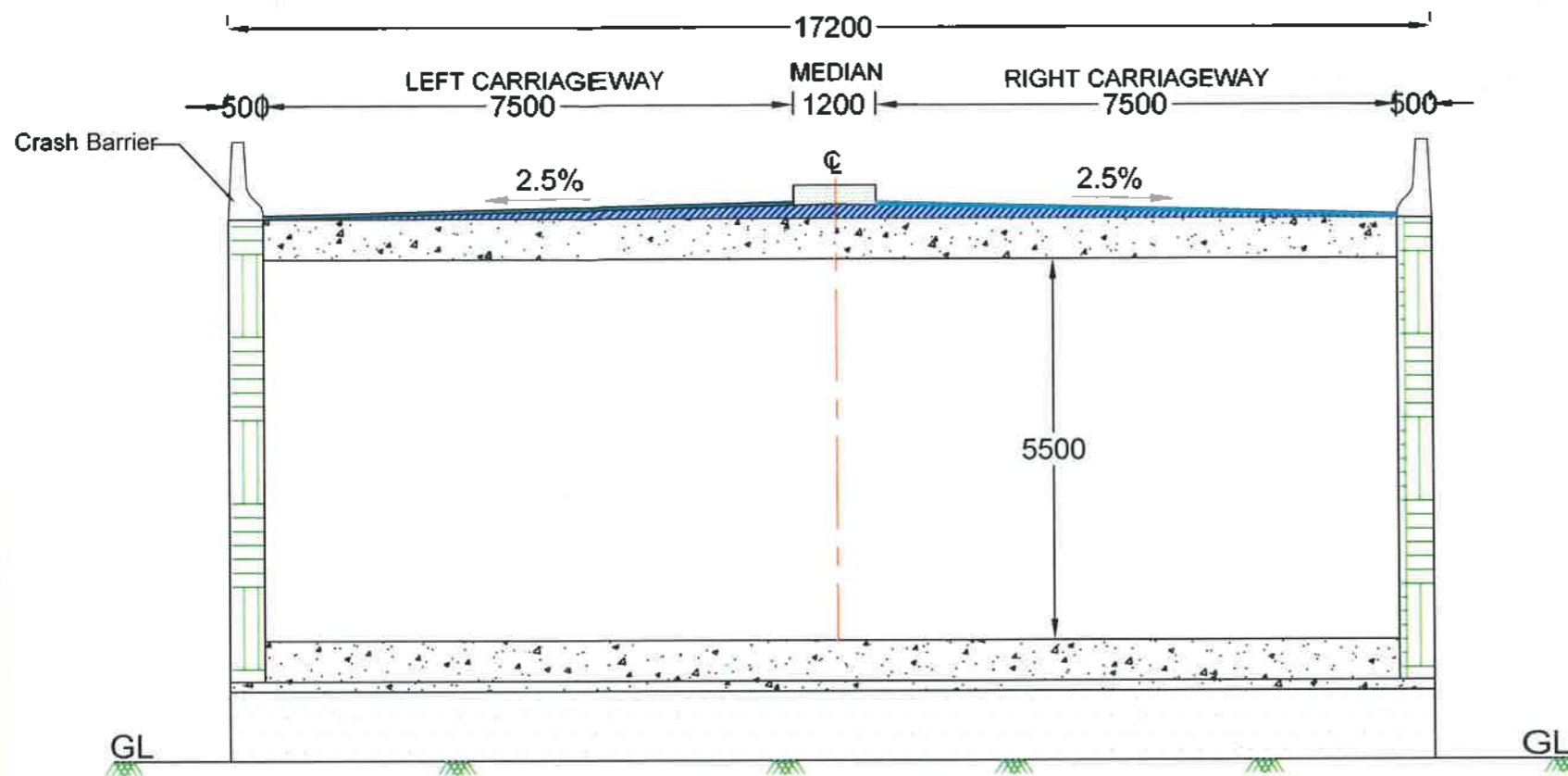


PLAN

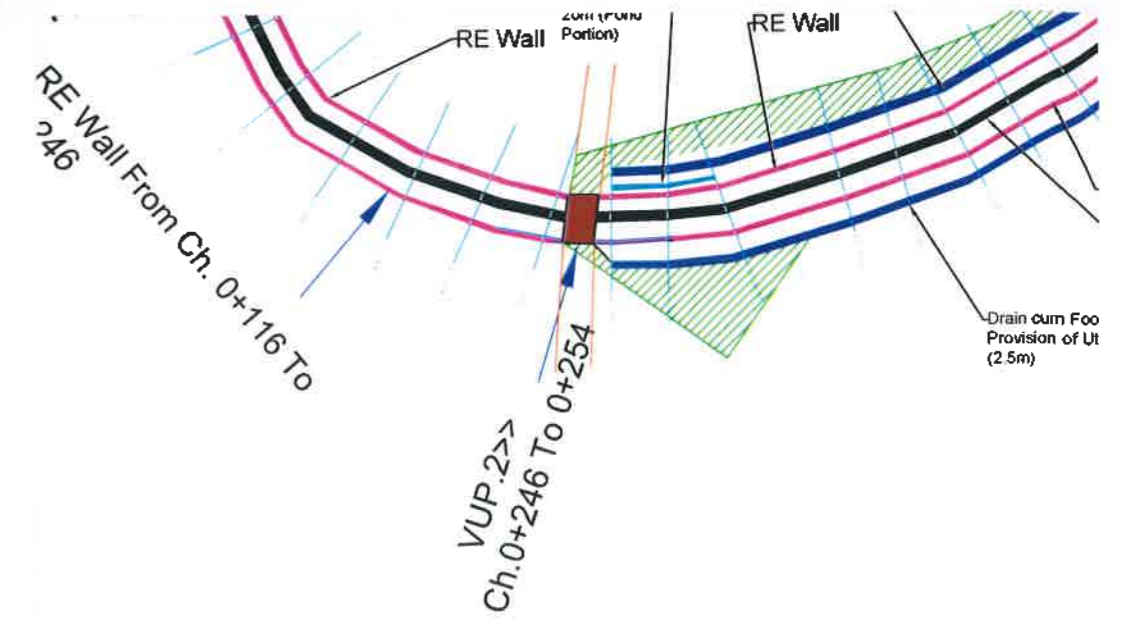


Section A-A

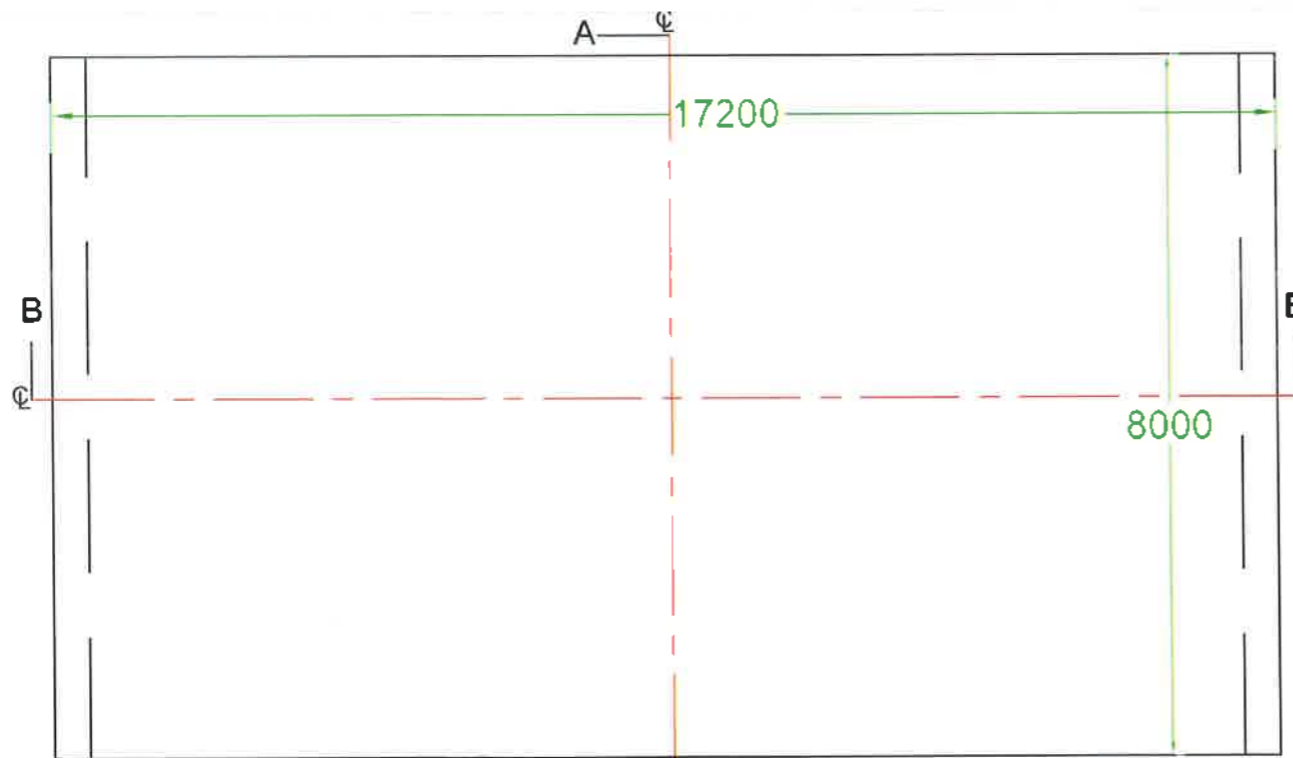
 PROJECT:	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE PROPOSED VUP 0+106 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No. 12
	Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deerarganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode			SCALE : NTS
				DWG NO :



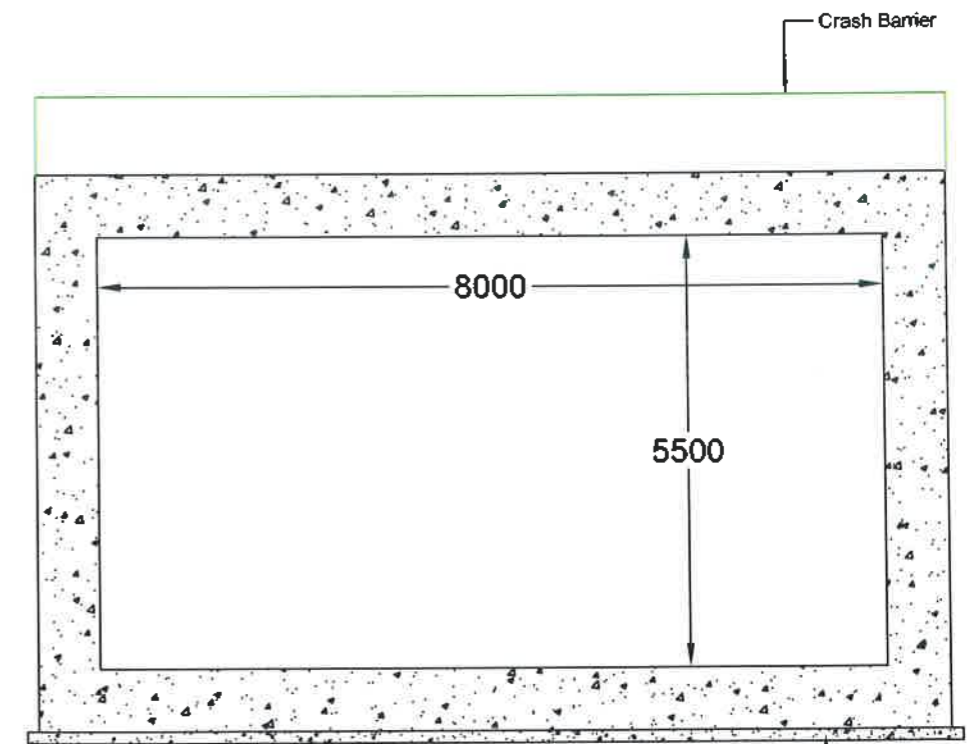
Section B-B




KEY PLAN



PLAN



Section A-A


	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE PROPOSED VUP 0+246 Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV	TCS No.	13
				SCALE :	NTS
				DWG NO :	

PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dhramshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahib Railway Station (Ch.0+000) to Patna Ghat (Ch.1+550) in replacement of existing old railway line of Patna Sahib Patna Ghat at Patna in the State of Bihar on EPC mode

Coordinate at Center Line Stretch 'C'

Sr No.	X	Y	RL	Remarks
1	323223.9352	2831807.3130	50.908	TRACK CENTER
2	323216.3064	2831781.5393	50.920	TRACK CENTER
3	323209.5941	2831758.7178	50.987	TRACK CENTER
4	323202.7755	2831735.8450	50.862	TRACK CENTER
5	323197.8751	2831719.1928	50.884	TRACK CENTER
6	323193.2800	2831703.6403	51.037	TRACK CENTER
7	323188.3531	2831687.5475	51.058	TRACK CENTER
8	323183.1964	2831671.4275	51.145	TRACK CENTER
9	323178.0604	2831654.5168	51.109	TRACK CENTER
10	323172.6179	2831636.9442	51.235	TRACK CENTER
11	323167.0857	2831619.4414	51.227	TRACK CENTER
12	323160.8736	2831598.9815	51.248	TRACK CENTER
13	323154.2304	2831577.7487	51.279	TRACK CENTER
14	323147.9082	2831557.3657	51.225	TRACK CENTER
15	323143.2858	2831541.7819	51.269	TRACK CENTER
16	323140.3985	2831531.1163	51.250	TRACK CENTER
17	323134.0773	2831507.9069	51.338	TRACK CENTER
18	323125.7442	2831478.6675	51.348	TRACK CENTER
19	323118.5010	2831453.9907	51.439	TRACK CENTER
20	323111.9021	2831432.2377	51.711	TRACK CENTER
21	323103.8389	2831406.8088	51.475	TRACK CENTER
22	323095.8429	2831381.8390	51.418	TRACK CENTER
23	323088.5999	2831359.0697	51.427	TRACK CENTER
24	323083.6119	2831343.0074	51.374	TRACK CENTER
25	323078.2264	2831325.9337	51.310	TRACK CENTER
26	323072.4890	2831307.4502	51.313	TRACK CENTER
27	323067.4489	2831291.1886	51.319	TRACK CENTER
28	323062.1354	2831273.5184	51.298	TRACK CENTER
29	323061.7447	2831271.9054	51.265	TRACK CENTER
30	323056.2740	2831253.0929	51.260	TRACK CENTER
31	323047.8067	2831224.4881	51.385	TRACK CENTER
32	323042.6368	2831206.7451	51.471	TRACK CENTER
33	323036.9005	2831187.3178	51.410	TRACK CENTER
34	323035.8404	2831183.7328	51.445	TRACK CENTER
35	323025.6273	2831149.4129	51.342	TRACK CENTER
36	323014.4176	2831111.2082	51.446	TRACK CENTER
37	323006.1176	2831082.5408	51.498	TRACK CENTER
38	322997.5014	2831053.4023	51.579	TRACK CENTER
39	322989.9312	2831027.6111	51.500	TRACK CENTER
40	322979.8315	2830996.1931	51.646	TRACK CENTER
41	322960.0163	2830950.5468	51.634	TRACK CENTER
42	322953.6590	2830939.3596	51.596	TRACK CENTER
43	322946.0851	2830927.0421	51.613	TRACK CENTER
44	322937.7669	2830913.9120	51.578	TRACK CENTER
45	322925.7155	2830897.9788	51.428	TRACK CENTER
46	322916.9835	2830887.7284	51.533	TRACK CENTER
47	322906.4847	2830876.5439	51.642	TRACK CENTER
48	322895.2309	2830865.8286	51.638	TRACK CENTER

Sr No.	X	Y	RL	Remarks
49	322884.3206	2830856.4664	51.737	TRACK CENTER
50	322868.0215	2830843.7469	51.707	TRACK CENTER
51	322847.9934	2830830.7773	51.814	TRACK CENTER
52	322826.1661	2830819.5778	51.940	TRACK CENTER
53	322806.1816	2830811.3616	51.920	TRACK CENTER
54	322784.1658	2830803.9392	51.935	TRACK CENTER
55	322762.8956	2830798.2916	51.983	TRACK CENTER
56	322741.4038	2830794.2760	52.024	TRACK CENTER
57	322724.2295	2830792.2954	52.065	TRACK CENTER
58	322708.0442	2830791.3278	52.073	TRACK CENTER
59	322693.2659	2830791.2299	52.084	TRACK CENTER
60	322673.8147	2830792.6497	52.171	TRACK CENTER
61	322652.8365	2830796.2257	52.302	TRACK CENTER
62	322632.1715	2830801.2650	52.320	TRACK CENTER
63	322612.7866	2830808.1452	52.371	TRACK CENTER
64	322598.6742	2830814.5382	52.419	TRACK CENTER
65	322588.4356	2830819.6812	52.494	TRACK CENTER
66	322569.4684	2830831.0078	52.637	TRACK CENTER
67	322557.7190	2830838.3437	52.742	TRACK CENTER
68	322539.6358	2830851.9435	52.847	TRACK CENTER
69	322528.7453	2830860.3936	52.891	TRACK CENTER
70	323067.5441	2831220.0423	50.838	LEVEL CROSSING
71	323065.6424	2831217.7934	50.842	LEVEL CROSSING
72	323068.4845	2831220.6813	50.844	LEVEL CROSSING
73	323048.6290	2831227.4732	51.446	LEVEL CROSSING
74	323049.6812	2831230.6544	51.391	LEVEL CROSSING
75	323050.7777	2831234.5396	51.360	LEVEL CROSSING
76	323032.6979	2831245.0007	50.825	LEVEL CROSSING
77	323030.2004	2831243.6174	50.840	LEVEL CROSSING
78	323024.7832	2831244.2793	50.723	LEVEL CROSSING
79	322554.3624	2830847.6024	53.231	UNDER PASS
80	322561.4541	2830842.0449	53.223	UNDER PASS
81	322551.3215	2830827.9454	52.348	UNDER PASS
82	322543.6581	2830833.8829	52.855	UNDER PASS
83	323203.7834	2831838.4667	51.921	Boundary
84	323153.8017	2831552.3502	52.839	Boundary
85	323139.7602	2831556.0235	52.690	Boundary
86	323111.0954	2831459.9548	50.902	Boundary
87	323126.7570	2831456.7040	51.378	Boundary
88	323110.6244	2831403.2802	51.347	Boundary
89	323094.5592	2831404.3705	52.944	Boundary
90	323056.0239	2831281.5199	51.721	Boundary
91	323077.6506	2831285.7841	51.432	Boundary
92	323045.1222	2831245.3685	51.161	Boundary
93	323064.1669	2831237.4148	51.382	Boundary

	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. Road construction Department, Government of Bihar.	TITLE Coordinate at Center Line Stretch - 'C'	AUTHORITY ENGINEER AECOM - RODIC JV		
	PROJECT: Construction of 4-Lane Elevated as a part of J.P. Ganga Path (Digha to Deearganj) from Nuruddin Ghat (Ch. 16+975.79 Km.) to Dharmshala ghat (Ch. 19+890 Km.) (length 2.914 km.) with allied facilities and Widening and Strengthening of existing Road to 4-Lane from the Junction of J.P. Ganga Path at Deearganj (Ch. 20+500 Km.) to ROB approach on SH-106 (old NH-30) (Length-750 Mtr.) & Development of 4 lane Road from Patna Sahiti Railway Station (Ch. 0+000) to Patna Ghat (Ch. 1+550) in replacement of existing old railway line of Patna Sahiti Patna Ghat at Patna in the State of Bihar on EPC mode.			SCALE :	NTS
				DWG NO :	