

Ref: AGICL/A.E/PKG-05/2024/552

Date: 18-09-2024

To,

The Authorized Signatory

M/S KAMAC Engineers Pvt. Ltd.

F0201, City Centre Office Block,

Uttrayon Matigara, Siliguri,

Dist: Darjeeling, West Bengal.

PIN: 734010

E-Mail- ledonh38@kamac.in; keplslg@gmail.com

SUB: Strengthening/Improvement to 2- Lane with Paved Shoulder from KM 27+150 (Golai Gaon) to KM 47+628 (Ledo) on existing Dibrugarh to Ledo section with proposed Digboi Bypass (Green Field and Brown Field) (2-Lane+PS) of NH-315 (Old NH-38) in Tinsukia District in the State of Assam on EPC mode. (Pkg. 5): Approval of Design & Drawing of major Bridge at Ch.38+400.

Ref: KEPL/NHIDCL/D-L/2024/115. Dated 22.08.2024.

Dear Sir,

This is in reference to your above cited subject, EPC contractor has submitted the design& Drawing of Major Bridge at Ch.38+400 for our review and Approval. The same has been reviewed and found in order.

You are advised to submit the 3 sets of Design & Drawing of Major Bridge at Ch.38+400 with duly sealed & signed by Design Director, proof consultant & safety consultant for GFC.

With regards

For, Almondz Global Infra Consultant limited in JV with Ayoleeza consultant Private Limited.



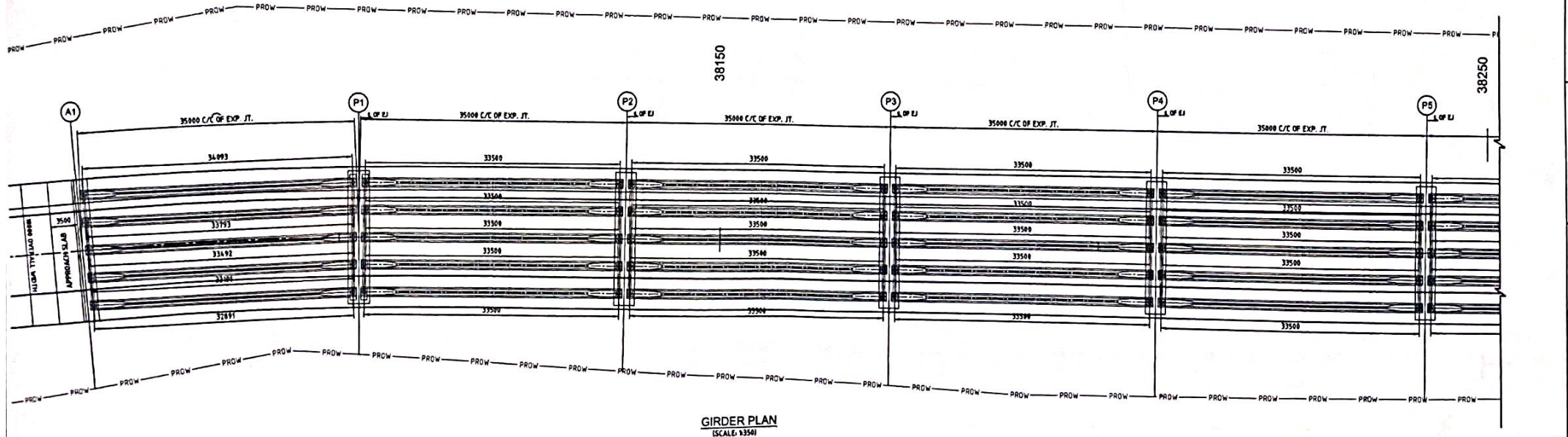
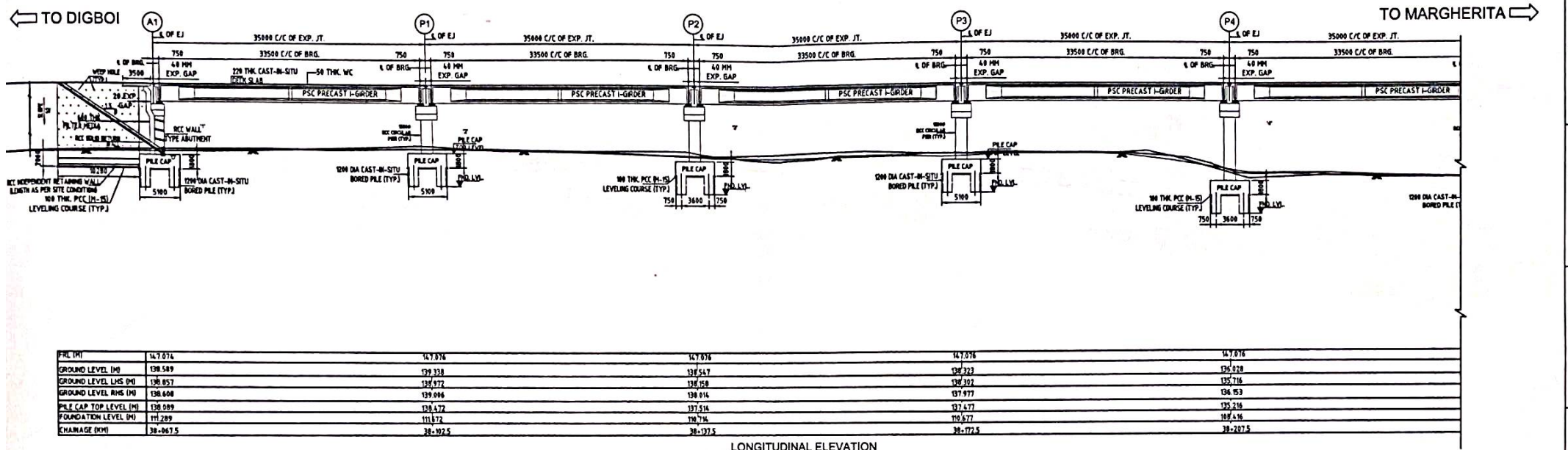
Pramod Kumar

Team Leader

(Authority Engineer)

Copy to:

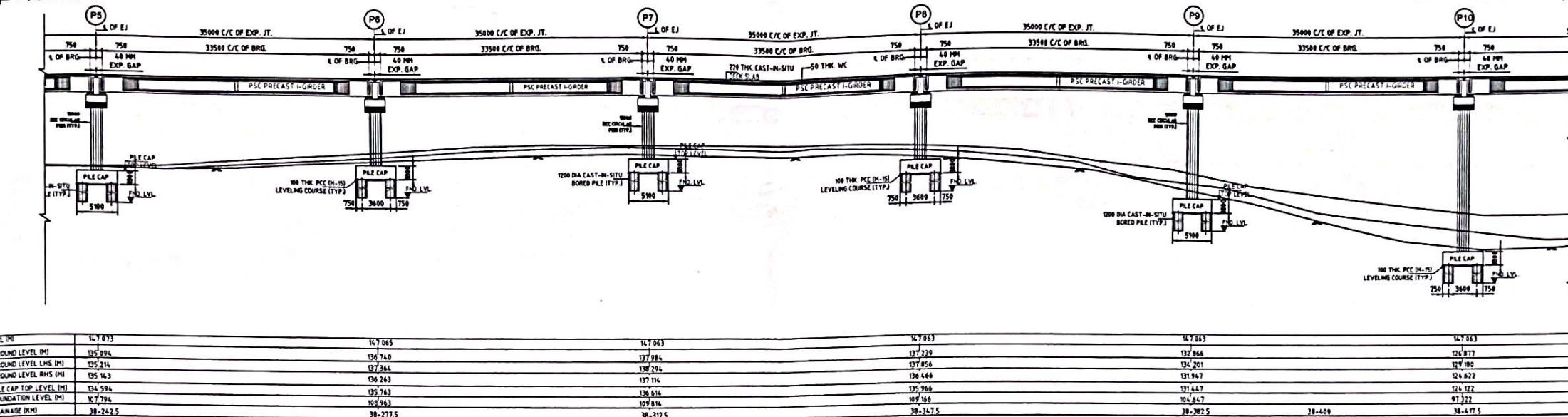
- i) GM.(P) PMU, Dibrugarh(Assam) for kind information please.
- ii) The Almondz Global Infra-Consultant Limited in JV with Ayoleeza Consultant Private Limited.



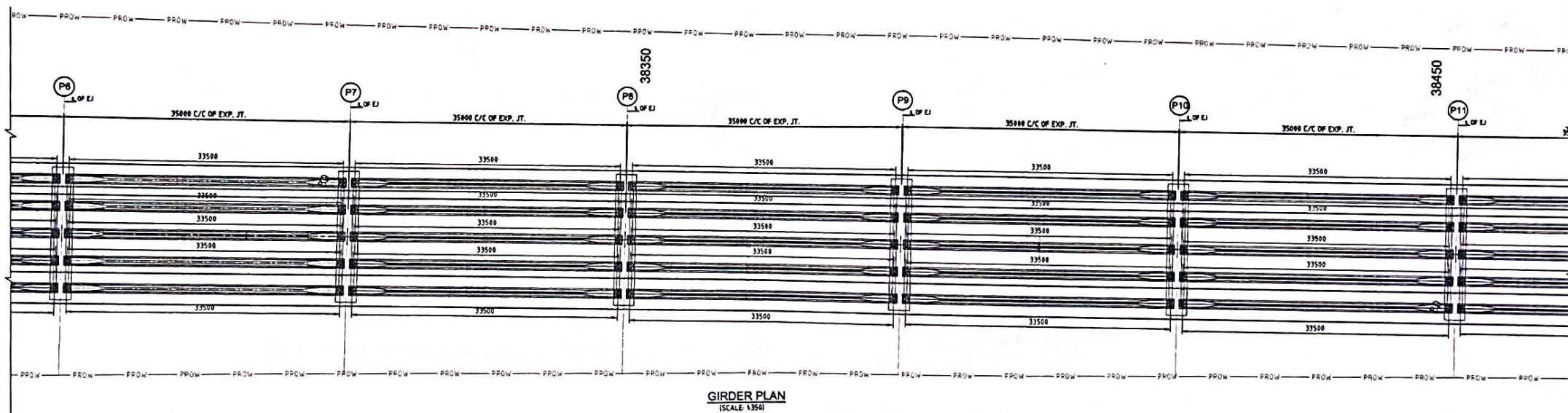
CLIENT: NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	EPC CONTRACTOR: KAMAC ENGINEERS PVT.LTD F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010	AUTHORITY'S ENGINEER:	PROOF CONSULTANT:	SAFETY CONSULTANT:	DESIGN CONSULTANT: A.V. CONSTRUCTION 1 st Floor, WZ-1240, Palam Extension, Bosco Ashram Walli Gali, New Delhi 110045 Winst Infra Solution Pvt. Ltd. OFFICE: F-4, BHANU CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VASUNDHRA GUJARABAD, U.P-201012	PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Gola Gera) to km 47+642 (Lodo) on Dhrupath to Lodo section with proposed Margherita & Lodo Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode (Package-5) DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH. 38-400 (19X35M) DETAILS: <table border="1"> <tr> <td>Date</td> <td>Drw.</td> <td>Dsg.</td> <td>Chk.</td> <td>App.</td> <td>Scale</td> <td>Drawing Status</td> </tr> <tr> <td>JAN 2024</td> <td>AJ</td> <td>U.Y</td> <td>P.S</td> <td></td> <td>AS SHOWN</td> <td></td> </tr> <tr> <td>Project No.</td> <td colspan="4">Drawing No.</td> <td>Sheet No.</td> <td>Rev</td> </tr> <tr> <td></td> <td colspan="4">AYC&WSP/LNH-38/M/B/GAD Ch-38-400/101</td> <td>01 OF 10</td> <td></td> </tr> </table>	Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status	JAN 2024	AJ	U.Y	P.S		AS SHOWN		Project No.	Drawing No.				Sheet No.	Rev		AYC&WSP/LNH-38/M/B/GAD Ch-38-400/101				01 OF 10	
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	AYC&WSP/LNH-38/M/B/GAD Ch-38-400/101				01 OF 10																													

TO DIGBOI

TO MARGHERITA



LONGITUDINAL ELEVATION

GIRDER PLAN
(SCALE 1:500)

CLIENT:



NATIONAL HIGHWAYS &
INFRASTRUCTURE DEVELOPMENT
CORPORATION LTD.

EPC CONTRACTOR

KAMAC ENGINEERS Pvt. Ltd.
KAMAC ENGINEERS PVT. LTD
F0201, CITY CENTER OFFICE
BLOCK, 2ND FLOOR,
MATIGARA 734010

AUTHORITY'S ENGINEER

PROOF CONSULTANT:

SAFETY CONSULTANT:

DESIGN CONSULTANT:

A.V. CONSTRUCTION
1st Floor, WZ-1240, Palam
Extension, Bosco Ashram
Wali Gali, New Delhi
110045
Winst Infra Solution
Pvt. Ltd.
OFFICE: F-4, ISHAAN CORPORATE
TOWER, PLOT NO-C-23, SECTOR-13,
VASUNDHRA GHAZIABAD, U.P. 201012

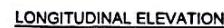
PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km
27+150 (Goli Ghat) to km 47+482 (Ladoi) on Digboi to Ladoi section
with proposed Margherita & Ladoi Bypass (Brownfield and Green Field)
(2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC
mode.(Package-5)

DRAWING TITLE:- GENERAL ARRANGMENT DRAWING
OF MAJOR BRIDGE AT CH. 38-400 (19X35M)

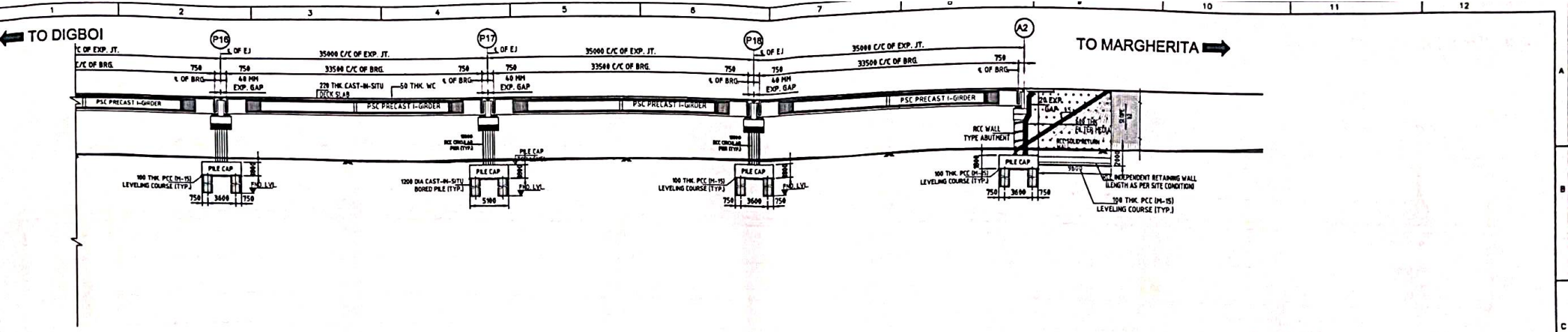
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Project No.	Drawn No.	Sheet No.	Rev		
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TO MARGHERITA ➡

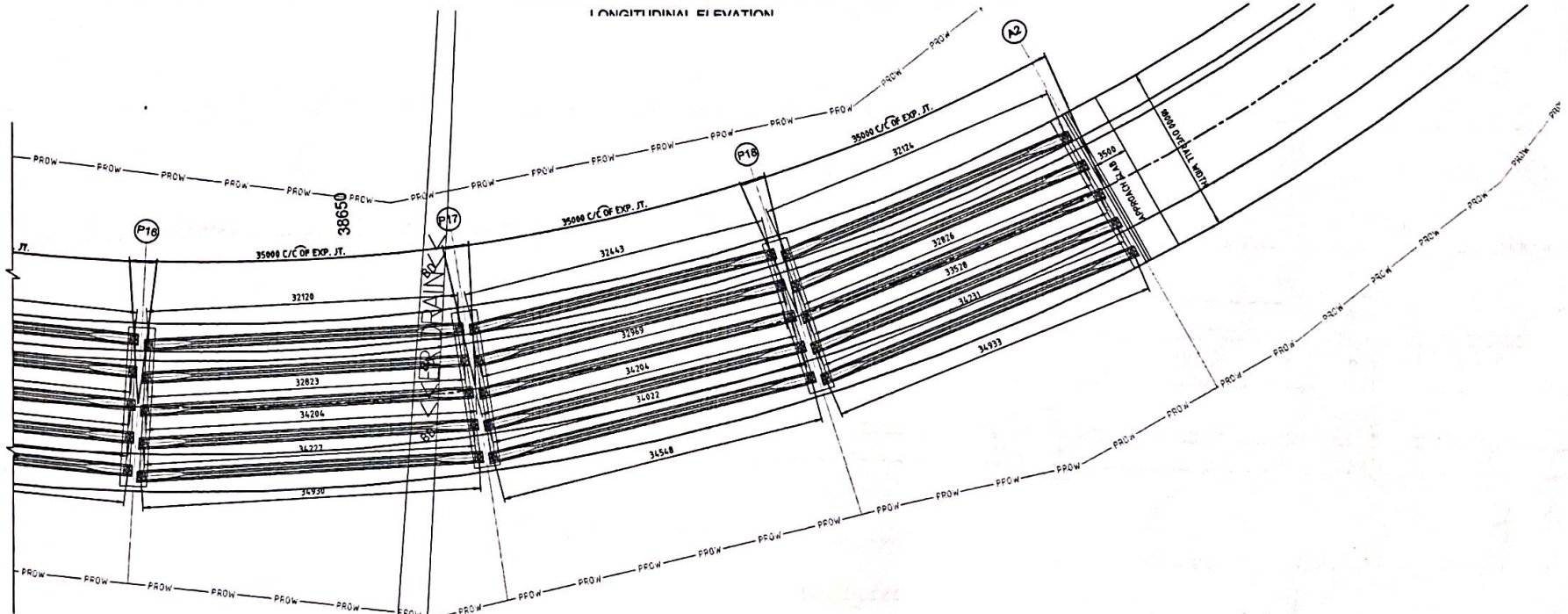


PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27-150 (Gool Ganga) to km 47+682 (Lado) on Dinabhatnagar to Lado section with proposed Marginalia & Lado Bypass (Brownfield and Green Field). (2-Lane+PS) of NH-38 in Tamsuk District in the State of Assam on EPC mode (Package-5)							
DRAWING TITLE:- GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH 38-400 (19X135M)							
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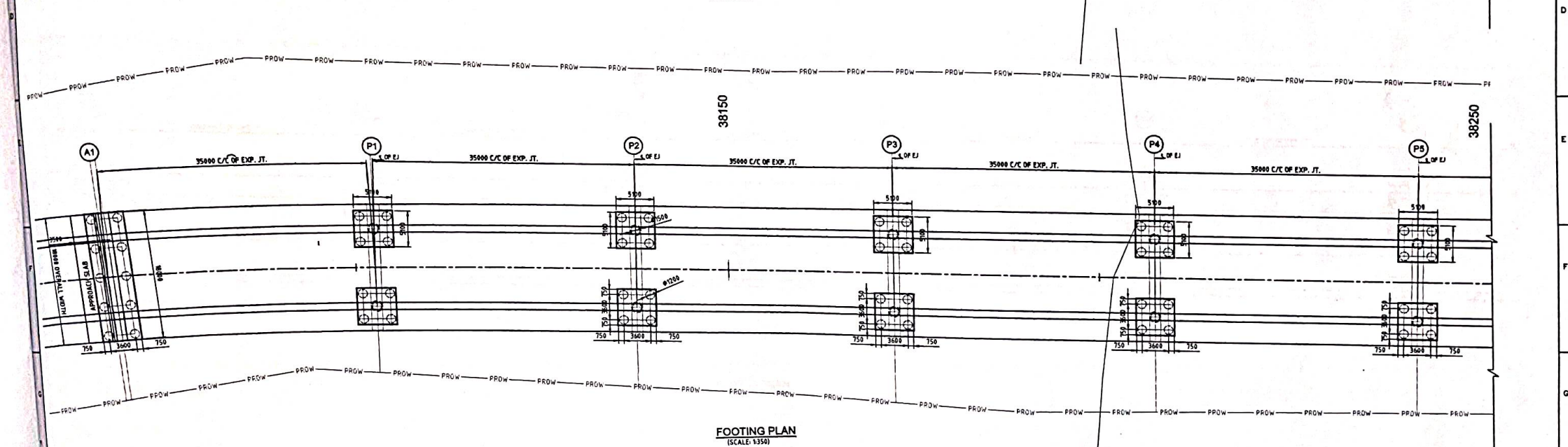
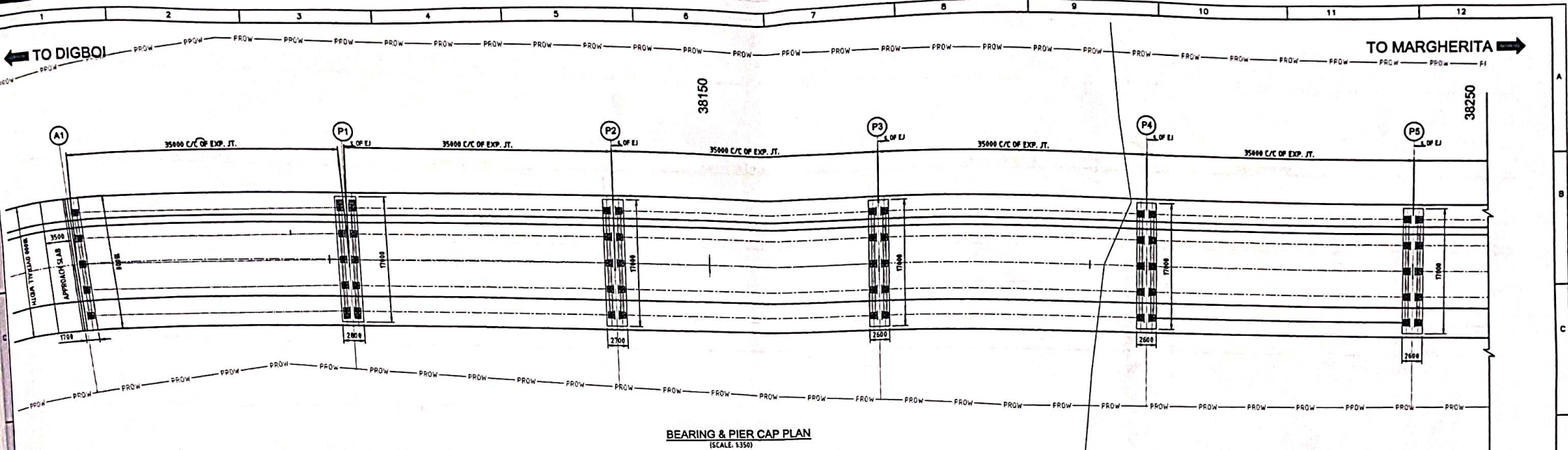
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GROUND LEVEL (M)	138.750	138.672	138.715	138.806
GROUND LEVEL LMS (M)	138.823	138.552	138.856	137.018
GROUND LEVEL RMS (M)	138.834	138.824	138.948	138.861
PILE CAP TOP LEVEL (M)	138.750	138.052	138.215	138.306
FOUNDATION LEVEL (M)	111.558	111.252	111.115	111.506
CHAMBER (MM)	38-627.5	38-662.5	38-697.5	38-732.5

LONGITUDINAL ELEVATION



GIRDER PLAN
SCALE: 1:3501

CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.		EPC CONTRACTOR:  KAMAC ENGINEERS PVT.LTD F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010		AUTHORITY'S ENGINEER:		PROJECT CONSULTANT:		SAFETY CONSULTANT:		DESIGN CONSULTANT:  A.V. CONSTRUCTION 1 st Floor, WZ-1240, Palam Extension, Boco Ashram Wali Gali, New Delhi 110045 Winst Infra Solution Pvt. Ltd. OFFICE: P-4, ISHAAN CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VASUNDHRA GHAZIABAD, U.P-201012		PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Golai Chuan) to km 47+682 (Lado) on Dibrugarh to Lado section with proposed Margherita & Lado Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode.(Package-5) DRAWING TITLE:- GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH: 38-400 (19X35M) DETAILS:- <table border="1"> <tr> <td>Date</td> <td>Drw.</td> <td>Dsg.</td> <td>Chk.</td> <td>App.</td> <td>Scale</td> <td>Drawing Status.</td> </tr> <tr> <td>JAN.2024</td> <td>A1</td> <td>JLV</td> <td>PS</td> <td></td> <td>AS SHOWN</td> <td></td> </tr> <tr> <td>Project No.</td> <td colspan="5">Drawing No.</td> <td>Sheet No.</td> </tr> <tr> <td></td> <td colspan="5">AVCAWSPL/NH-38/MJB/GAD CH-38-400/101</td> <td>04 OF 18</td> </tr> <tr> <td></td> <td colspan="5"></td> <td>Rev. RD</td> </tr> </table>		Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status.	JAN.2024	A1	JLV	PS		AS SHOWN		Project No.	Drawing No.					Sheet No.		AVCAWSPL/NH-38/MJB/GAD CH-38-400/101					04 OF 18							Rev. RD
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CLIENT:



NATIONAL HIGHWAYS &
INFRASTRUCTURE DEVELOPMENT
CORPORATION LTD.

EPC CONTRACTOR

KAMAC
ENGINEERS
Pvt. Ltd.
KAMAC ENGINEERS PVT. LTD.
F0201, CITY CENTER OFFICE
BLOCK, 2ND FLOOR,
MATIGARA 734010

AUTHORITY'S ENGINEER

PROOF CONSULTANT:

SAFETY CONSULTANT:

DESIGN CONSULTANT:

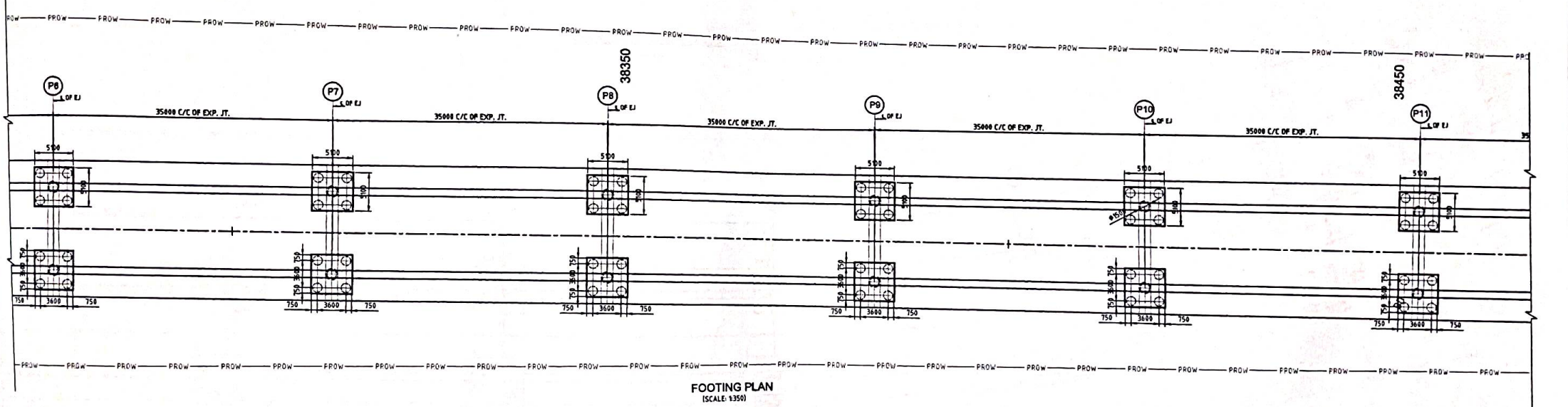
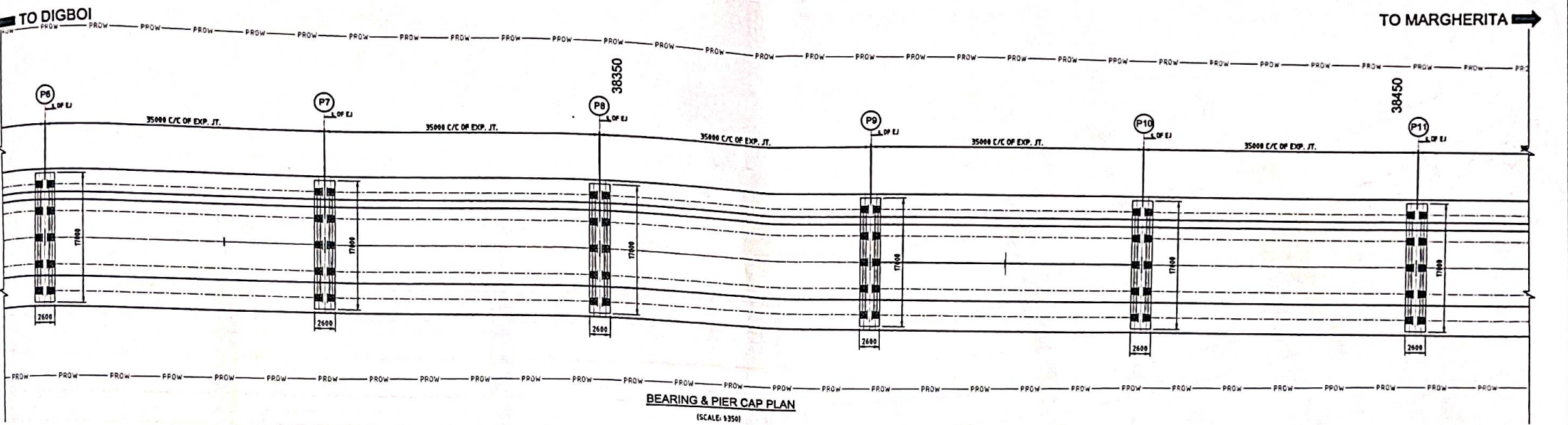


A.V. CONSTRUCTION
1st Floor, WZ-1240, Palam
Extension, Bosco Ashram
Wali Gali, New Delhi
110045

Winst Infra Solution
Pvt. Ltd.

OFFICE: F-4, ISHAAN CORPORATE
TOWER, PLOT NO-C-23, SECTOR-13,
VARANASI, U.P. 221012

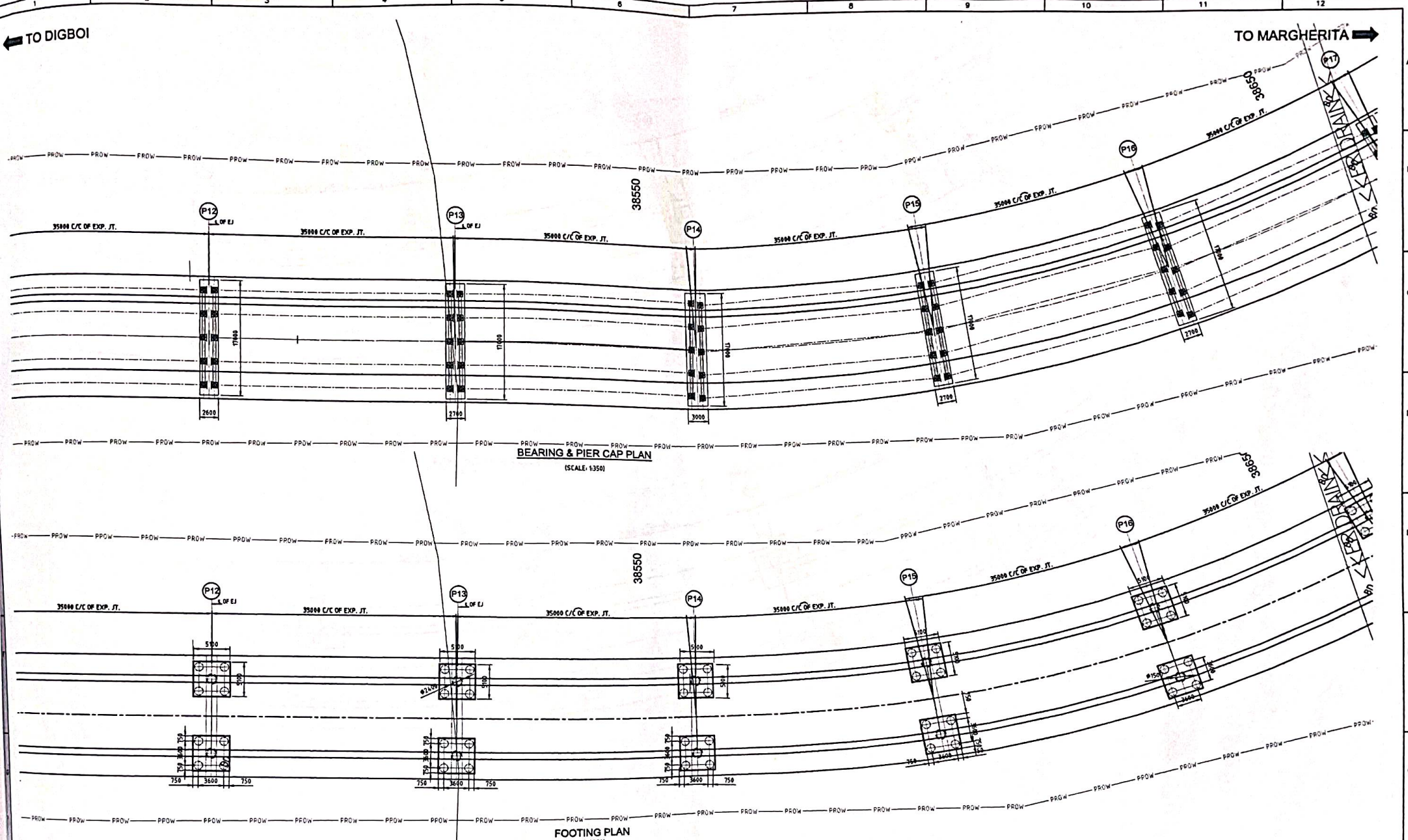
PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Golal Ghat) to km 47+642 (Lado) on Dibrugarh to Lado section with proposed Margherita & Lado Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode.(Package-2)						
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CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	EPC CONTRACTOR  KAMAC ENGINEERS PVT. LTD. F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010	AUTHORITY'S ENGINEER	PROOF CONSULTANT:	SAFETY CONSULTANT:	DESIGN CONSULTANT:  A.V. CONSTRUCTION 1st Floor, WZ-1240, Palam Extension, Bosco Ashram Wali Gali, New Delhi 110045 Winst Infra Solution Pvt. Ltd. OFFICE: P-6, ISHAAN CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VASUNDHRA, GHAZIABAD, U.P.-201012	PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Gola Oam) to km 47+682 (Lado) on Dibrugarh to Lado section with proposed Margherita & Lado Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tezpur District in the State of Assam on EPC mode.(Package-5) DRAWING TITLE: GENERAL ARRANGMENT DRAWING OF MAJOR BRIDGE AT CH: 38+400 (19X35M) DETAILS: <table border="1"> <tr> <th>Date</th><th>Drw.</th><th>Deg.</th><th>Chk.</th><th>App.</th><th>Scale</th><th>Drawing Status</th></tr> <tr> <td>JAN 2024</td><td>AJ</td><td>UV</td><td>PS</td><td></td><td>AS SHOWN</td><td></td></tr> <tr> <td>Project No.</td><td>Drawing No.</td><td></td><td></td><td></td><td></td><td>Sheet No.</td></tr> <tr> <td></td><td>AVCAWS/PL/NH-38/MUB/GAD-CH-38+400/101</td><td></td><td></td><td></td><td></td><td>08 OF 10</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>Rev. RD</td></tr> </table>	Date	Drw.	Deg.	Chk.	App.	Scale	Drawing Status	JAN 2024	AJ	UV	PS		AS SHOWN		Project No.	Drawing No.					Sheet No.		AVCAWS/PL/NH-38/MUB/GAD-CH-38+400/101					08 OF 10							Rev. RD
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TO DIGBOI

TO MARGHERITA



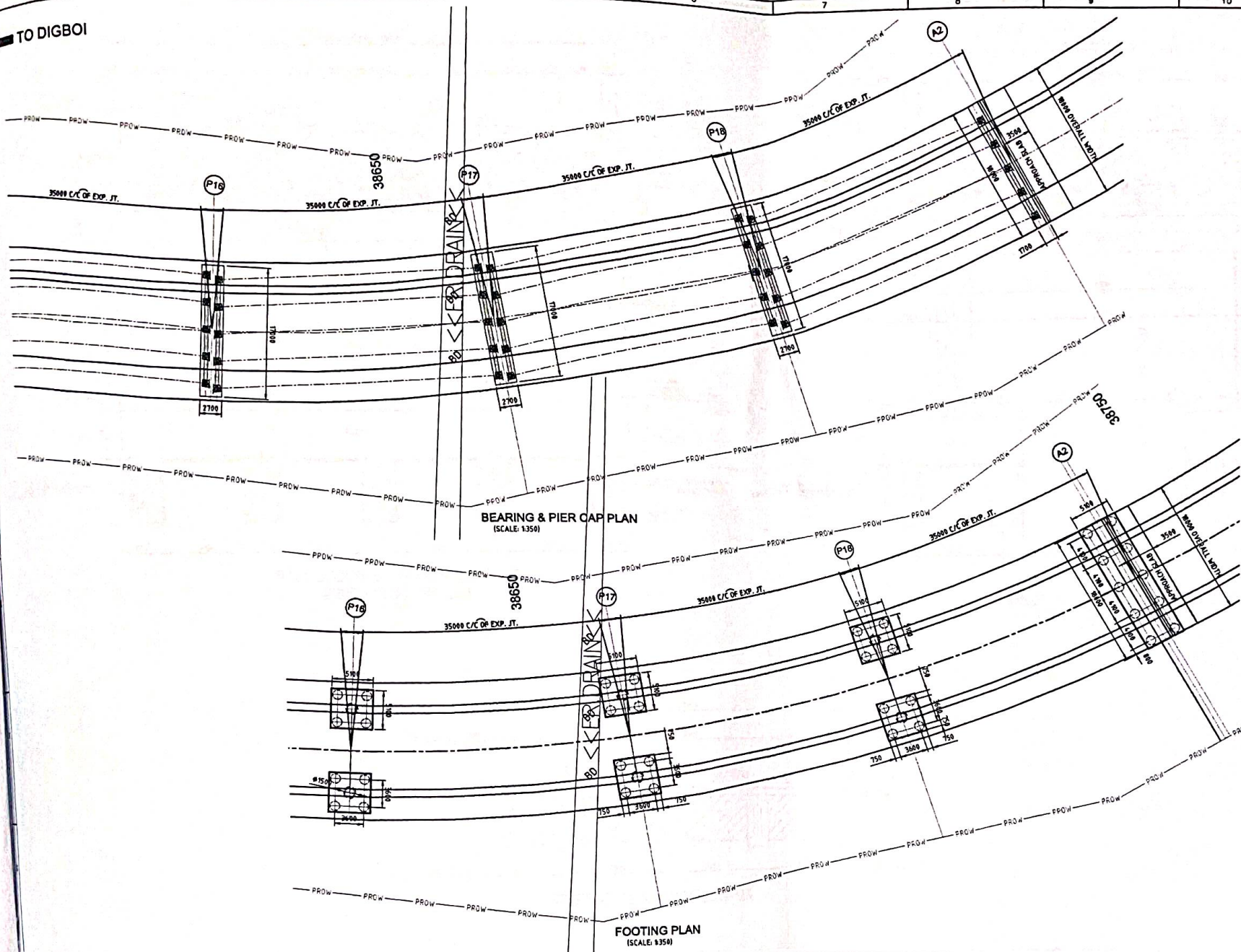
BEARING & PIER CAP PLAN
(SCALE: 1:350)

FOOTING PLAN
(SCALE: 1:350)

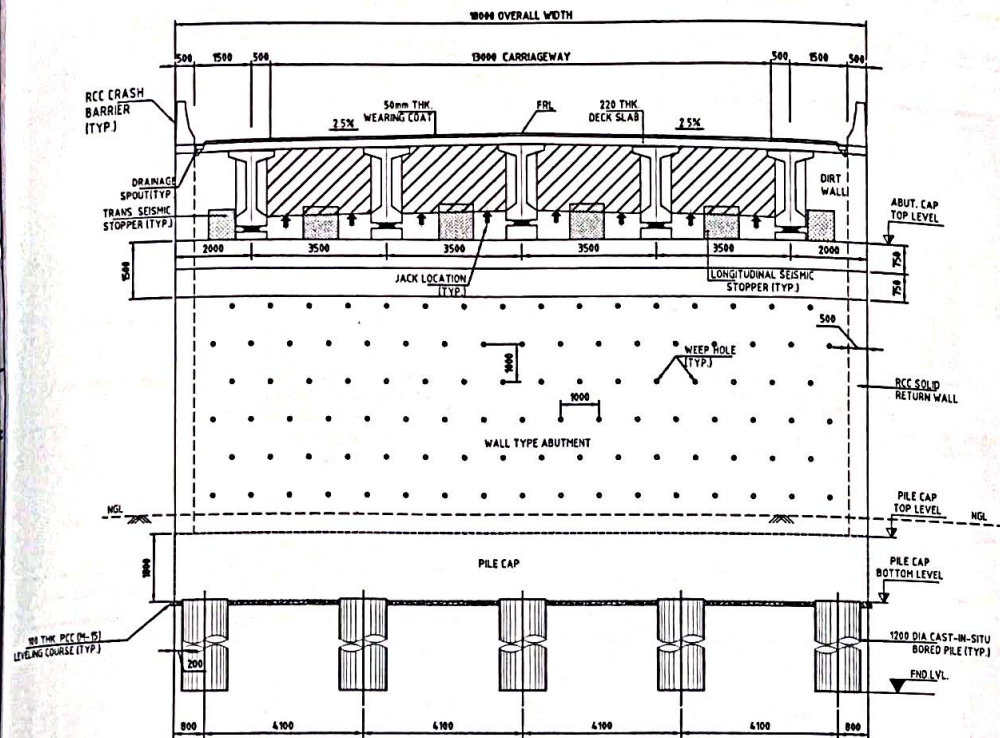
CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	EPC CONTRACTOR  KAMAC ENGINEERS PVT.LTD F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010	AUTHORITY'S ENGINEER	PROOF CONSULTANT:	SAFETY CONSULTANT:	DESIGN CONSULTANT:  A.V. CONSTRUCTION 1st Floor, WZ-1240, Palam Extension, Bosco Ashram Wali Gali, New Delhi 110045 Winst Infra Solution Pvt. Ltd. OFFICE: F-4, ISHAAN CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VASUNDHRA, GHAZIABAD, U.P-201012	PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Golai Ghat) to km 47+642 (Lado) on Dibrugarh to Lado section with proposed Margherita & Lado Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode.(Package-5) DRAWING TITLE:- GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH: 38+400 (19X35M) DETAILS:- <table border="1"> <tr> <td>Date</td><td>Drw.</td><td>Deg.</td><td>Chk.</td><td>App.</td><td>Scale</td><td>Drawing Status.</td></tr> <tr> <td>JAN.2024</td><td>AJ</td><td>U.V</td><td>P.S</td><td></td><td>AS SHOWN</td><td></td></tr> <tr> <td>Project No.</td><td>Drawing No.</td><td colspan="4"></td><td>Sheet No.</td></tr> <tr> <td></td><td>AVC&WSP/NH-38/NU/BJAD CH-38+400/101</td><td colspan="4"></td><td>07 OF 10</td></tr> <tr> <td></td><td></td><td colspan="4"></td><td>Rev. RD</td></tr> </table>	Date	Drw.	Deg.	Chk.	App.	Scale	Drawing Status.	JAN.2024	AJ	U.V	P.S		AS SHOWN		Project No.	Drawing No.					Sheet No.		AVC&WSP/NH-38/NU/BJAD CH-38+400/101					07 OF 10							Rev. RD
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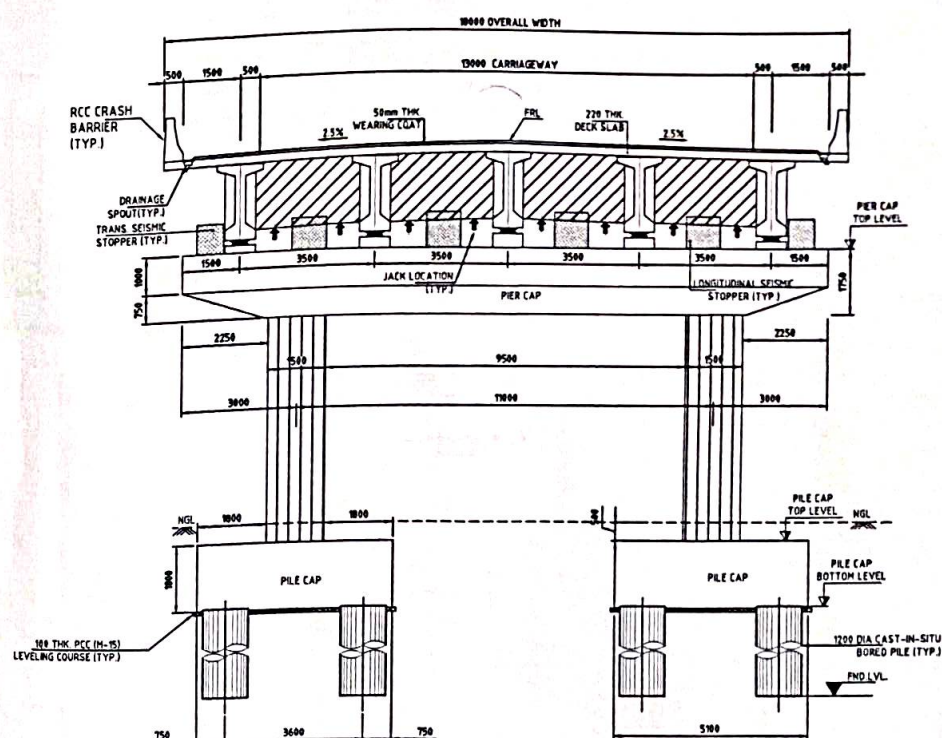
TO MARGHERITA



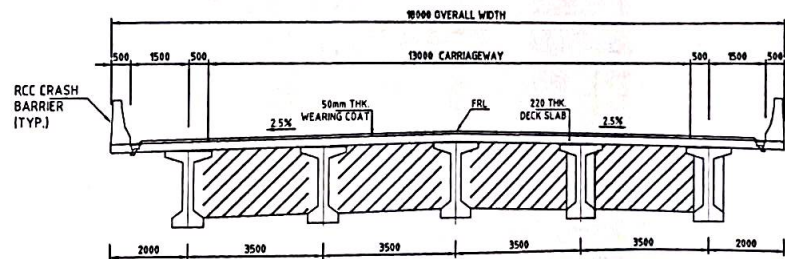
CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	EPC CONTRACTOR  KAMAC ENGINEERS PVT.LTD F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010	AUTHORITY'S ENGINEER	PROOF CONSULTANT:	SAFETY CONSULTANT:	DESIGN CONSULTANT:  A.V. CONSTRUCTION 1st Floor, WZ-1240, Palam Extension, Bosco Ashram Wall Gali, New Delhi 110043 Winst Infra Solution Pvt. Ltd. OFFICE: F-4, ISHAAN CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VARUNDHRA GHAZIABAD, U.P-201012	PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Golai Ozen) to km 47+642 (Lado) on Dibrugarh to Lado section with proposed Margherita & Lado Bypass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode.(Package-5) DRAWING TITLE:- GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH: 38+400 (19X35M) DETAILS:- <table border="1"> <thead> <tr> <th>Date</th> <th>Drw.</th> <th>Des.</th> <th>Chk.</th> <th>App.</th> <th>Scale</th> <th>Drawing Status</th> </tr> </thead> <tbody> <tr> <td>JAN 2024</td> <td>AJ</td> <td>UY</td> <td>PS</td> <td></td> <td>AS SHOWN</td> <td></td> </tr> </tbody> </table> Project No. AYCAWSPL/NH-38/M/BQAD-CH-38-400/101 Sheet No. 08 OF 10 Rev. RD	Date	Drw.	Des.	Chk.	App.	Scale	Drawing Status	JAN 2024	AJ	UY	PS		AS SHOWN	
Date	Drw.	Des.	Chk.	App.	Scale	Drawing Status														
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CROSS SECTION OF ABUTMENT (A1 TO A2)
LONGITUDINAL DIRECTION
 (SCALE : 1/100)



CROSS SECTION OF PIER (P1 TO P18)
LONGITUDINAL DIRECTION
 (SCALE : 1/100)



CROSS SECTION OF INTERMEDIATE
 (SCALE : 1/100)

CLIENT:

NADCL
 NATIONAL HIGHWAYS &
 INFRASTRUCTURE DEVELOPMENT
 CORPORATION LTD.

EPC CONTRACTOR

KAMAC
 ENGINEERS
 PVT.LTD
 KAMAC ENGINEERS PVT.LTD
 F0201, CITY CENTER OFFICE
 BLOCK, 2ND FLOOR,
 MATIGARA 734010

AUTHORITY'S ENGINEER

PROOF CONSULTANT:

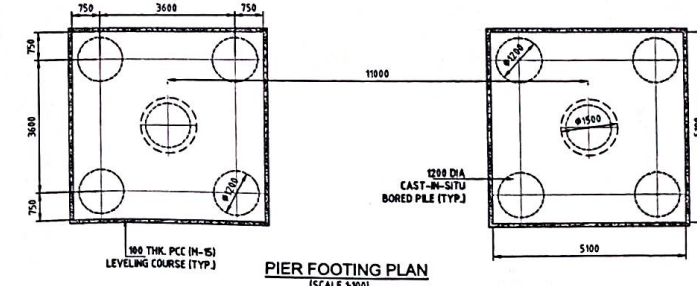
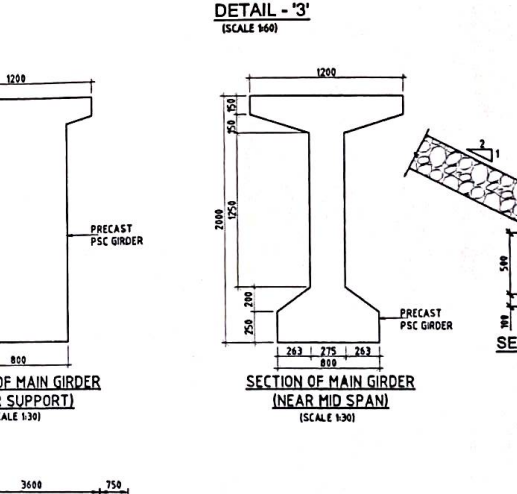
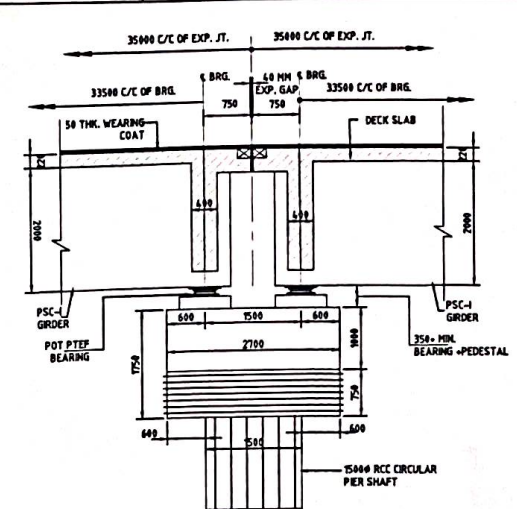
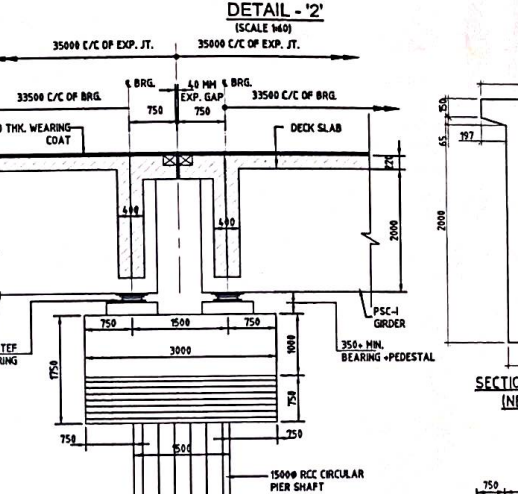
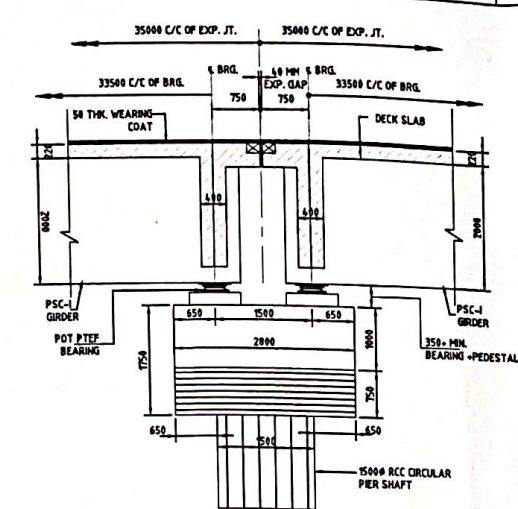
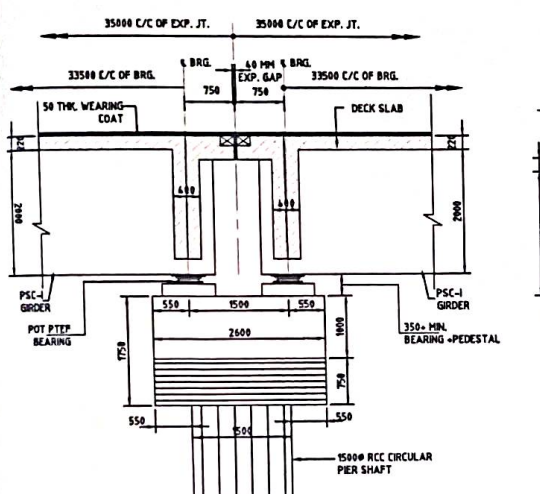
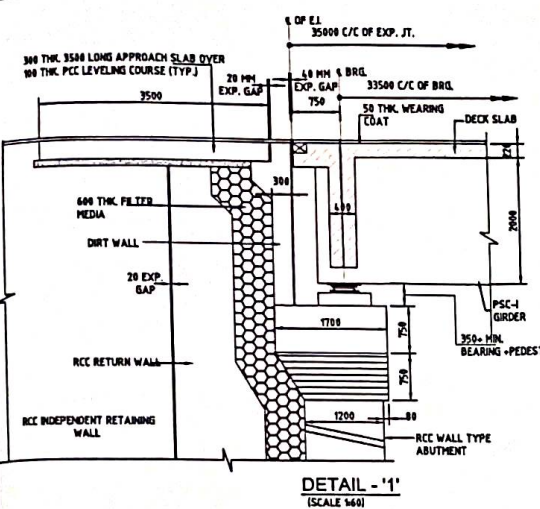
SAFETY CONSULTANT:

DESIGN CONSULTANT:

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DETAILS:

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
JAN 2024	AJ	UY	PS		AS SHOWN	
Project No.	Drawing No.	Sheet No.	Rev			
	AVCA WSP/NH-38-M/B/GAD-CH-38-400/101	9 OF 10	RO			



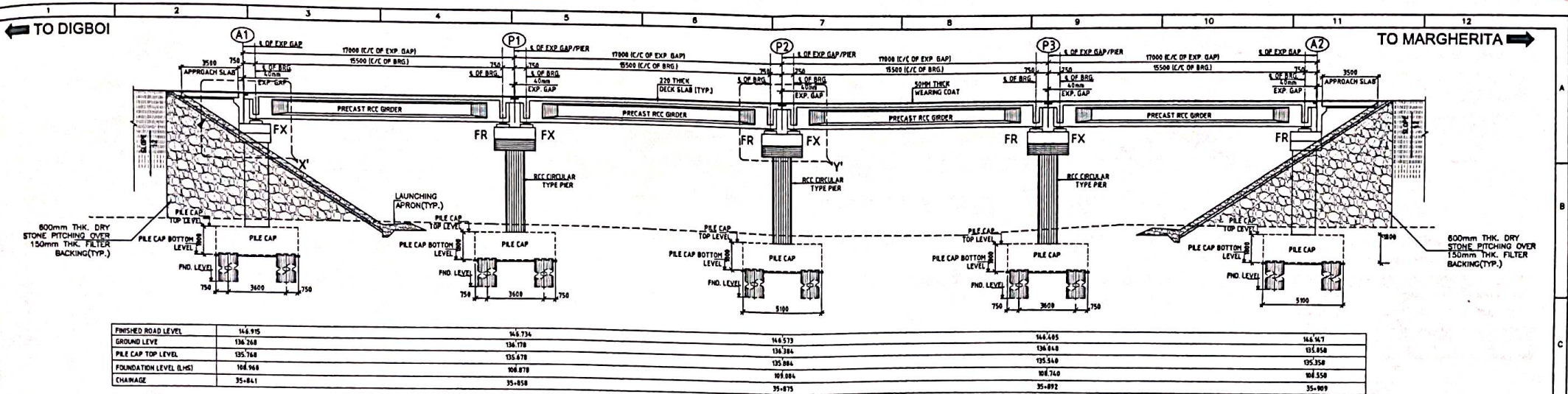
- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THE BRIDGE HAS BEEN DESIGNED FOR LIVE LOAD COMBINATION OF CLASS A AND TMR AS PER IRC 6-2017 TABLE-4 & 5. V. LOADING, WHICHEVER IS GOVERNING.
 - DESIGN SHALL BE CARRIED OUT AS PER RELEVANT CODE OF PRACTICE OR CODE OF PRACTICE AS APPROVED BY NORTH.
 - CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH AS FOLLOWS:
 - LEVELING COURSE UNDER FOUNDATION -M15
 - LEVELING COURSE UNDER APPROACH SLAB -M15
 - CAST-IN-SITU DECK SLAB -M40
 - SUBSTRUCTURE & FOUNDATION -M35
 - BEARING PEDESTAL & SEISMIC STOPPER -M40
 - RETURN WALL -M40
 - RCC INDEPENDENT RETAINING WALL -M40
 - RCC CRASH BARRIER -M40
 - APPROACH SLAB -M40
 - PSC GIRDER -M45
 - REINFORCEMENT BAR SHALL OF GRADE Fe-500 CONFORMING TO IS 1786-1985.
 - 50mm THK. WEARING COURSE COMPRESSION SHALL BE PROVIDED AS PER SECTION 506 OF NORTH.
 - WEED HOLES IN SLOPE 325, 100 DIA, PVC PIPE AT SPACING 1800MM C/C BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN STAGGERED MANNER ABOVE GROUND LEVEL OR WL, WHICHEVER IS HIGHER.
 - WATER TO BE USED IN CONCRETING & CURING SHALL CONFORM TO CLAUSE 302.4 OF IRC 12:2020.
 - LAYING COMPACTION AND EXTEND OF BACKFILL BEHIND ABUTMENT WALL SHALL CONSIST OF SELECTED EARTH (CONFORMING TO APPENDIX A OF IRC:78-2016) HAVING PROPERTIES $C_u \leq 30$, $20' < p < 240 kN/m^2$.
 - MINIMUM CLEAR COVER TO OUTER MOST REINFORCEMENT FOR RCC MINOR BRIDGE SHALL BE AS UNDER:
 - SUBSTRUCTURE (EARTH FACE) 50mm
 - SUBSTRUCTURE (NON EARTH FACE) 75mm
 - FOUNDATION 75mm
 - ANCHORAGE LENGTH SHALL BE AS PER CLAUSE 15.2.3 & 15.2.4, IRC:12-2020.
 - ANCHOR (GRADE M40) FAVORABLE CONDITION (I) 1.33x340 (GRADE M40) UNFAVORABLE CONDITION
 - SAFE BEARING CAPACITY CONSIDERED IN DESIGNED AT PROPOSED FOUNDING LEVEL IS 48.87 kN/m^2 . THIS SHALL BE ASCERTAINED BEFORE EXECUTION AT SITE.
 - POT-CUM-P.TFE, PIN AND METALLIC GUIDED BEARINGS SHALL BE DESIGNED AS PER PROVISION OF IRC 83 (PART II) 1.
 - STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED AS PER PROVISION OF SP-48.
 - LOOSE SOIL AND COMPACTION BELOW THE FOUNDATION SHALL BE DONE AS PER CLAUSE 20.12 OF IRC SP-13.
 - FOR FOUNDATION RESTING ON ROCK, ALL SEAMS AND CRACKS ON ROCK SURFACE SHALL BE GROUTED WITH CEMENT/MORTAR AS PER NORTH SPECIFICATION.
 - THE ANNUAL SPACE AROUND FOUNDATION SHALL BE FILLED WITH PCC (M20) / BOULDER GROUTED WITH CEMENT/MORTAR (1:3) AS PER SECTION 304.3.3 OF NORTH SPECIFICATION.
 - THE BRIDGE IS DESIGNED FOR PROVISION OF SEISMIC ZONE-IV AS CLAUSE 210 OF IRC-2017.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT PLAN AND PROFILE DRAWING.
 - ALL CHANGES, PRL, QL SHALL BE CONFIRMED AT SITE PRIOR TO EXECUTION.
 - FOR APPROACH SLAB, DRAINAGE SLOUT, CRASH BARRIER AND RETAINING WALL DETAILS FOR REFER SEPARATE DRAWINGS.
 - ALL STRUCTURAL STEEL SHALL CONFORM TO HIGH STRENGTH STEEL E-350 (E-400) AS PER IS: 2062-2015.
 - SURFILL AT POUNDING LEVEL ARE BOULDER, THERE MAY BE SOME LOOSE POCKETS OR SOME VOIDS SPACES. IN SUCH CASE GROUTING MAY BE REQUIRED TO MAKE SUBSOIL MORE COMPACT AND INTACT SOLID MASS. THIS MAY BE INJECTING SAND-CEMENT SLURRY. HOWEVER, IF NECESSARY, ONLY CEMENT GROUTING MAY HAVE TO BE DONE DEPENDING ON PENETRATION OF GROUT QUICK SETTING ADMIXTURE MAY BE USED FOR FASTER CURING THE GROUT HOLE SHOULD BE SPACED AT REGULAR SPACING OF 2M C/C OVER THE ENTIRE ZONE THE RECOMMENDED PRESSURE IN THIS CASE IS 1 TO 2 kg/cm^2 AS MAY BE REQUIRED.

ABBREVIATIONS

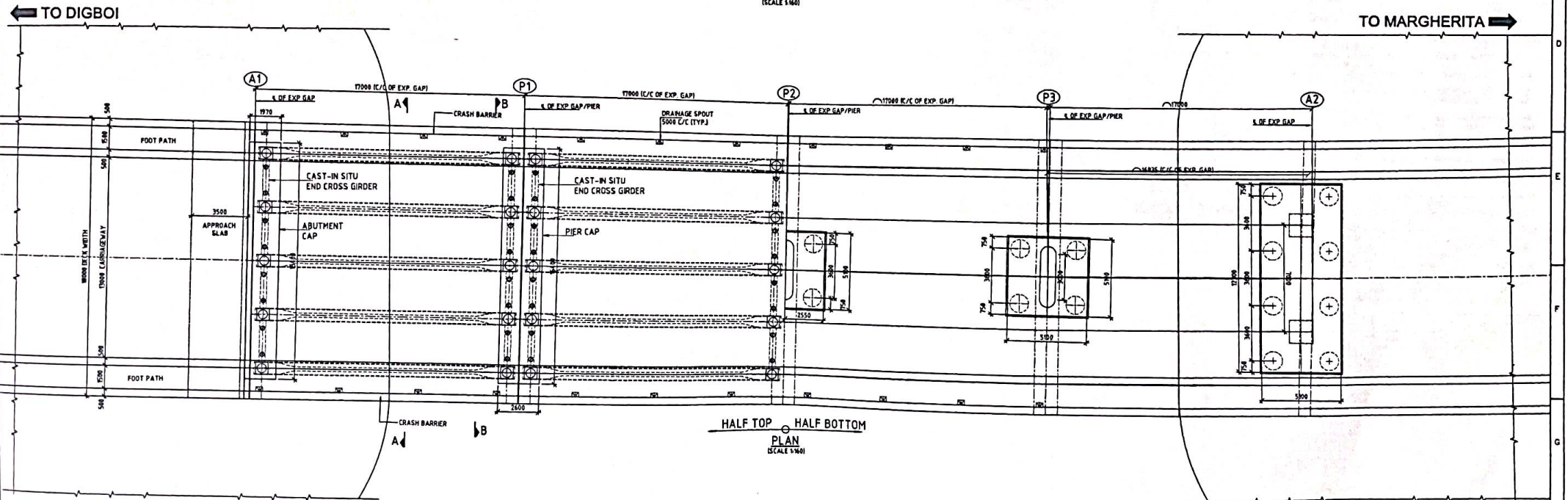
C	- CENTER LINE
FRL	- FINISHED ROAD LEVEL
NOL	- NATURAL GROUND LEVEL
EXP	- EXPANSION GAP
C.B	- CRASH BARRIER
PCC	- PLAIN CEMENT CONCRETE
THK	- THICKNESS
TYP	- TYPICAL
FSL	- FULL SUPPLY LEVEL
LBL	- LOWEST BED LEVEL
LVL	- LEVEL
JT	- JOINT
FD	- FOUNDATION
MIN	- MINIMUM
VERT.	- VERTICAL
CLNCE	- CLEARANCE
BRG	- BEARING

NOTE: - ALL DIMENSION & LEVELS ARE TENTATIVE SUBJECT TO CHANGE DURING THE DETAIL DESIGN & INVESTIGATIONS.

CLIENT: NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	EPC CONTRACTOR: KAMAC ENGINEERS PVT.LTD F0201, CITY CENTER OFFICE BLOCK, 2ND FLOOR, MATIGARA 734010	AUTHORITY'S ENGINEER:	PROOF CONSULTANT:	SAFETY CONSULTANT:	DESIGN CONSULTANT: A.V. CONSTRUCTION 1 st Floor, WZ-1240, Palam Extension, Bosco Ashram Wall Gali, New Delhi 110045 Winst Infra Solution Pvt. Ltd. OFFICE: P4, ISHAAN CORPORATE TOWER, PLOT NO-C-23, SECTOR-13, VASUNDHRA GUJARABAD, U.P-201012	PROJECT: Widening/Improvement to 2-Lane Lane with Paved Shoulder from km 27+150 (Gola Gola) to km 47+682 (Ladwa Dibrugarh in Ladwa section with proposed Margherita & Lado By-pass (Brownfield and Green Field) (2-Lane+PS) of NH-38 in Tinsukia District in the State of Assam on EPC mode.(Package-5) DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE AT CH. 38+400 (19X325M) DETAILS: <table border="1"> <tr> <th>Date</th> <th>Drw.</th> <th>Des.</th> <th>Chk.</th> <th>App.</th> <th>Scale</th> <th>Drawing Status.</th> </tr> <tr> <td>JAN 2024</td> <td>AJ</td> <td>U Y</td> <td>P S</td> <td></td> <td>AS SHOWN</td> <td></td> </tr> <tr> <td>Project No.</td> <td colspan="3">Drawing No.</td> <td>Sheet No.</td> <td colspan="2">Rev.</td> </tr> <tr> <td>AVCA WSP/LN/13-38 MB/BQAD</td> <td colspan="3">CH-38-400(10)</td> <td>10 OF 10</td> <td colspan="2">R0</td> </tr> </table>	Date	Drw.	Des.	Chk.	App.	Scale	Drawing Status.	JAN 2024	AJ	U Y	P S		AS SHOWN		Project No.	Drawing No.			Sheet No.	Rev.		AVCA WSP/LN/13-38 MB/BQAD	CH-38-400(10)			10 OF 10	R0	
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LONGITUDINAL ELEVATION



Date FEB.2024	Drw. A.J	Dag. U.Y	Chk. P.S	App.	Scale. AS SHOWN	Drawing Status. FOR APPROVAL	
Project No.	Drawing No. AVC&WBL/NH-34/MJB/GAD/CH-35-875.101					Sheet No. 1 OF 2	Rev. R0

