

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUNE 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)



DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

K. Ramas
 16-12-21
Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

DRAWN BY: ARJUN SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: VIKRANT KUMAR
SCALE :- 1:1000


TITLE:
 ROAD SIGNS
 CH 8+000 to 9+000
DRAWING NO.
 STC/BR/BSRDC/BNB/RS/09
A3



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Rama
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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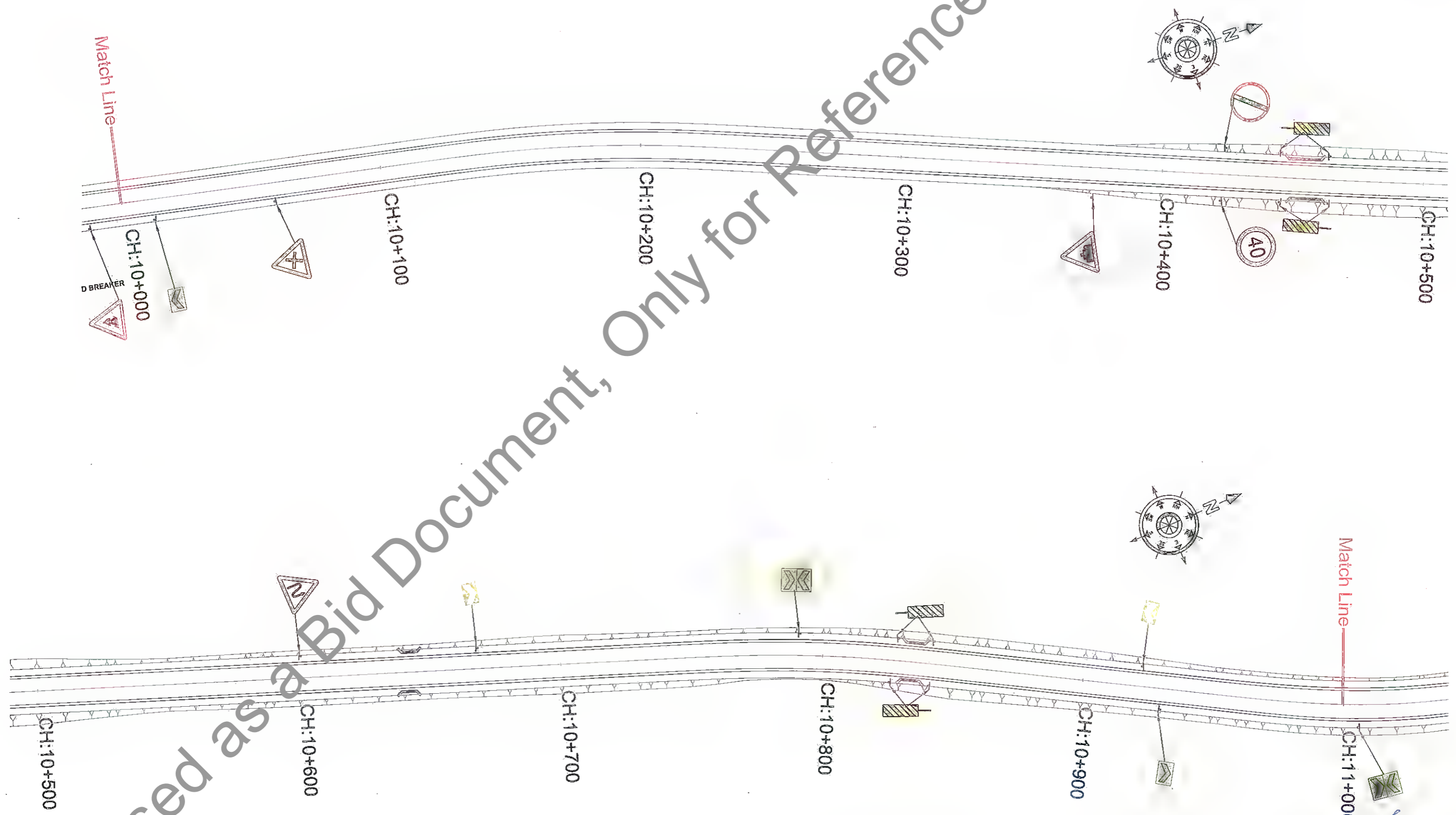
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 Ghaziabad-201014

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TITLE:
 ROAD SIGNS
 CH 9+000 to 10+000
DRAWING NO.
 STC/BR/BSRDC/BNB/RS/10
A3



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Kumar
16-12-11
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
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DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY	ARIJUN SINGH
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TITLE:	ROAD SIGNS CH 10+000 to 11+000
DRAWING NO.	STC/BR/BSRDC/BNB/RS/11
	A3

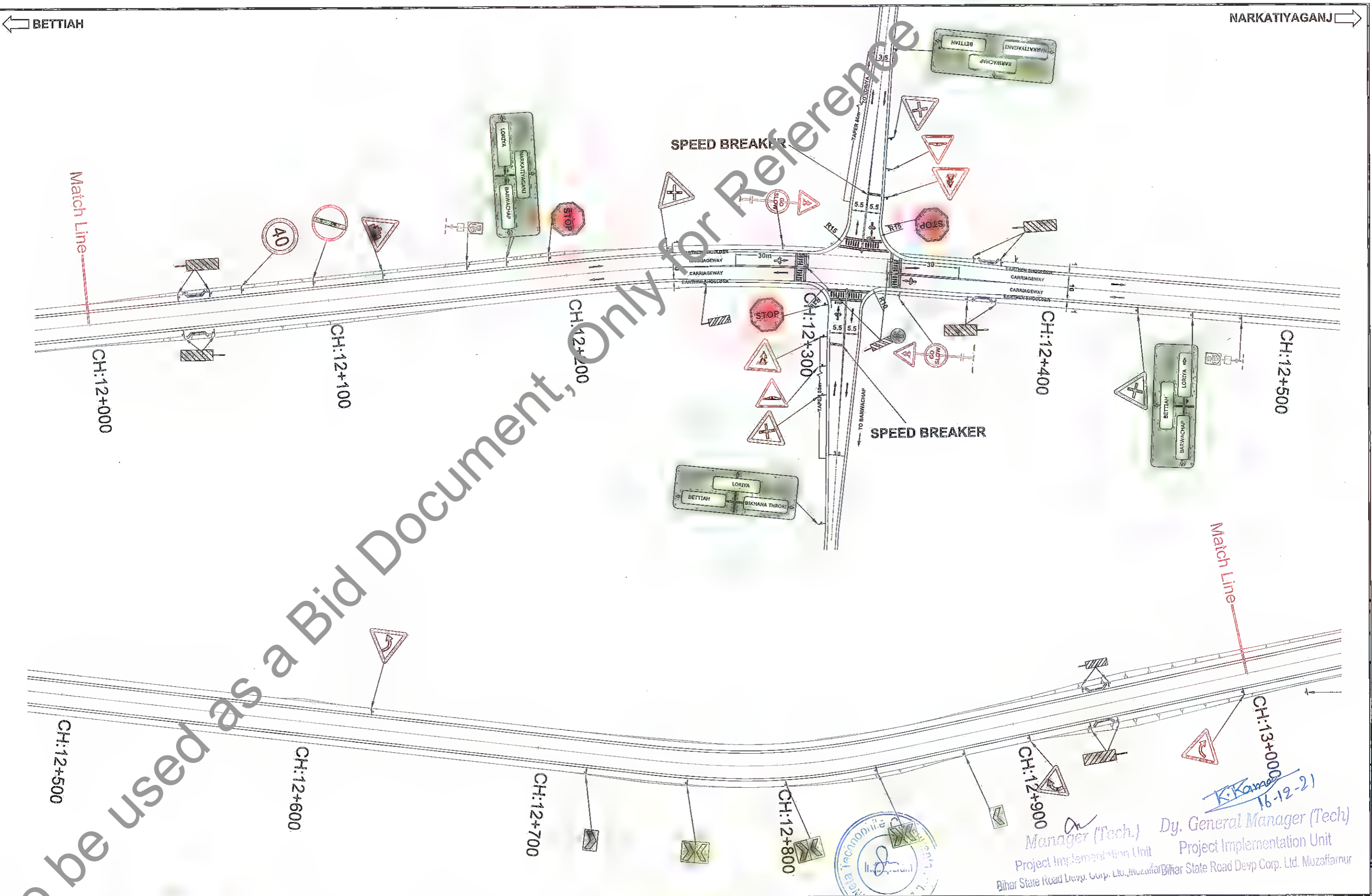


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K. Kamesh
16-12-19
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muza: ...

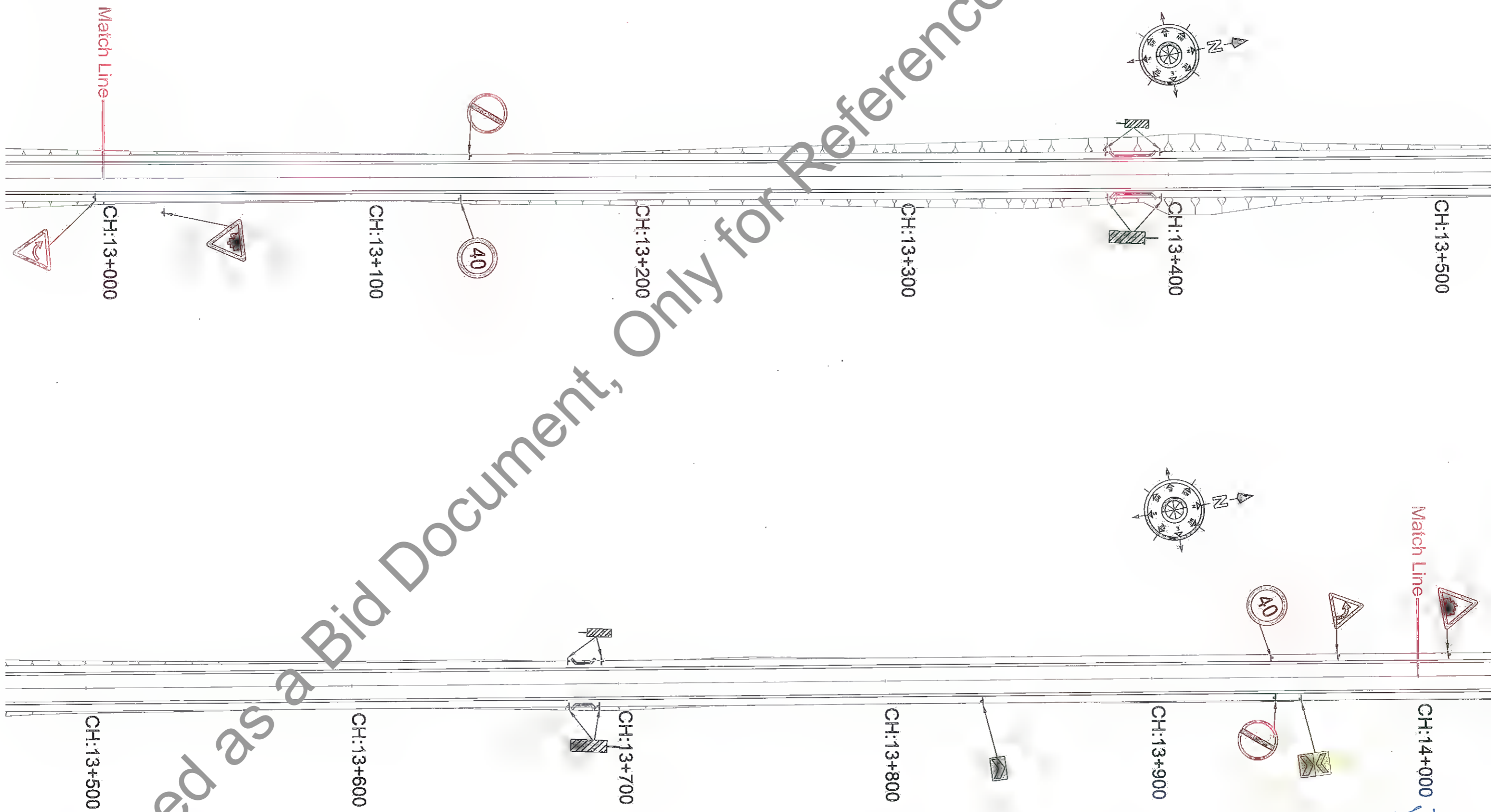


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K. Kamal
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
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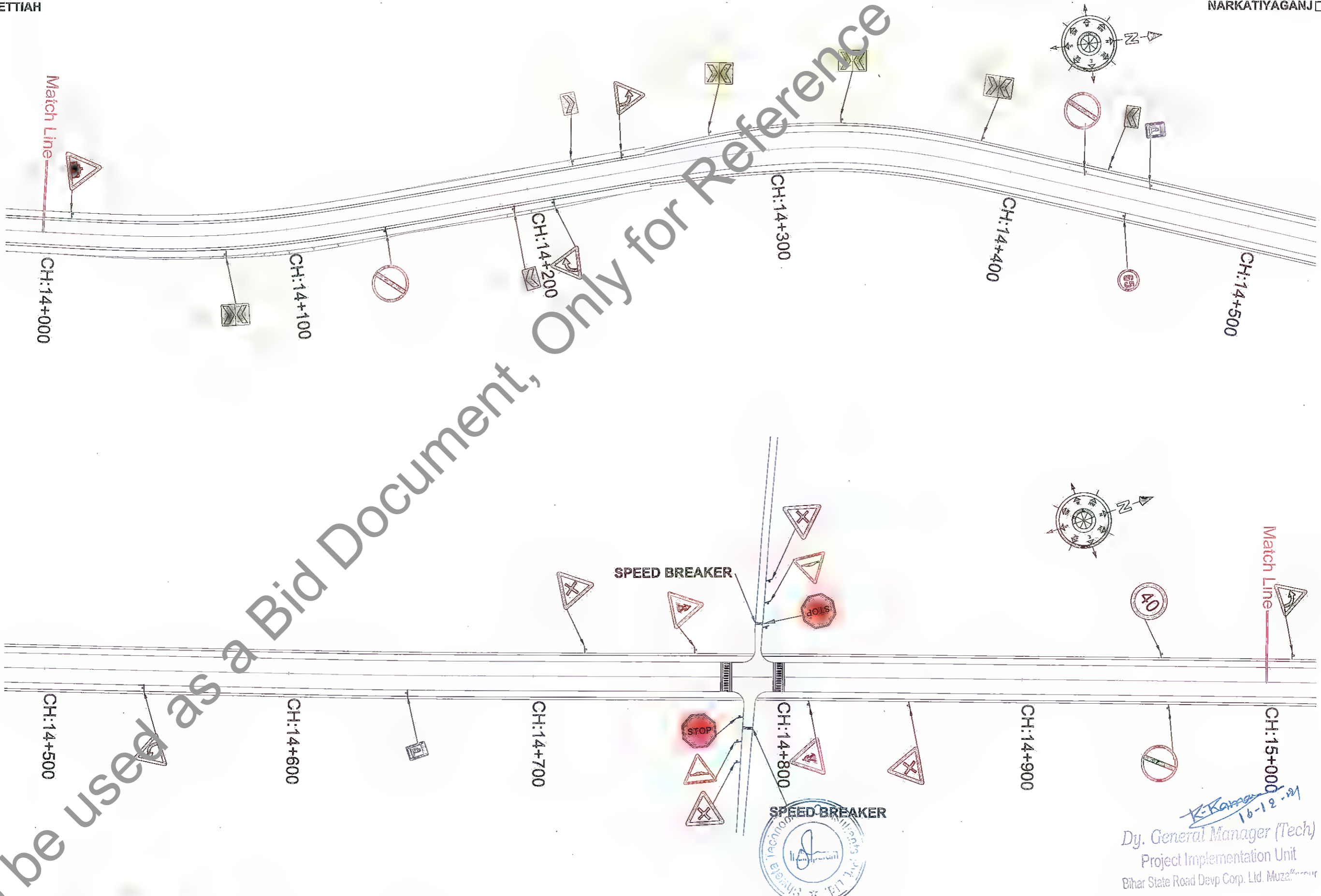
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K. Bama
16-12-21
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur


Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

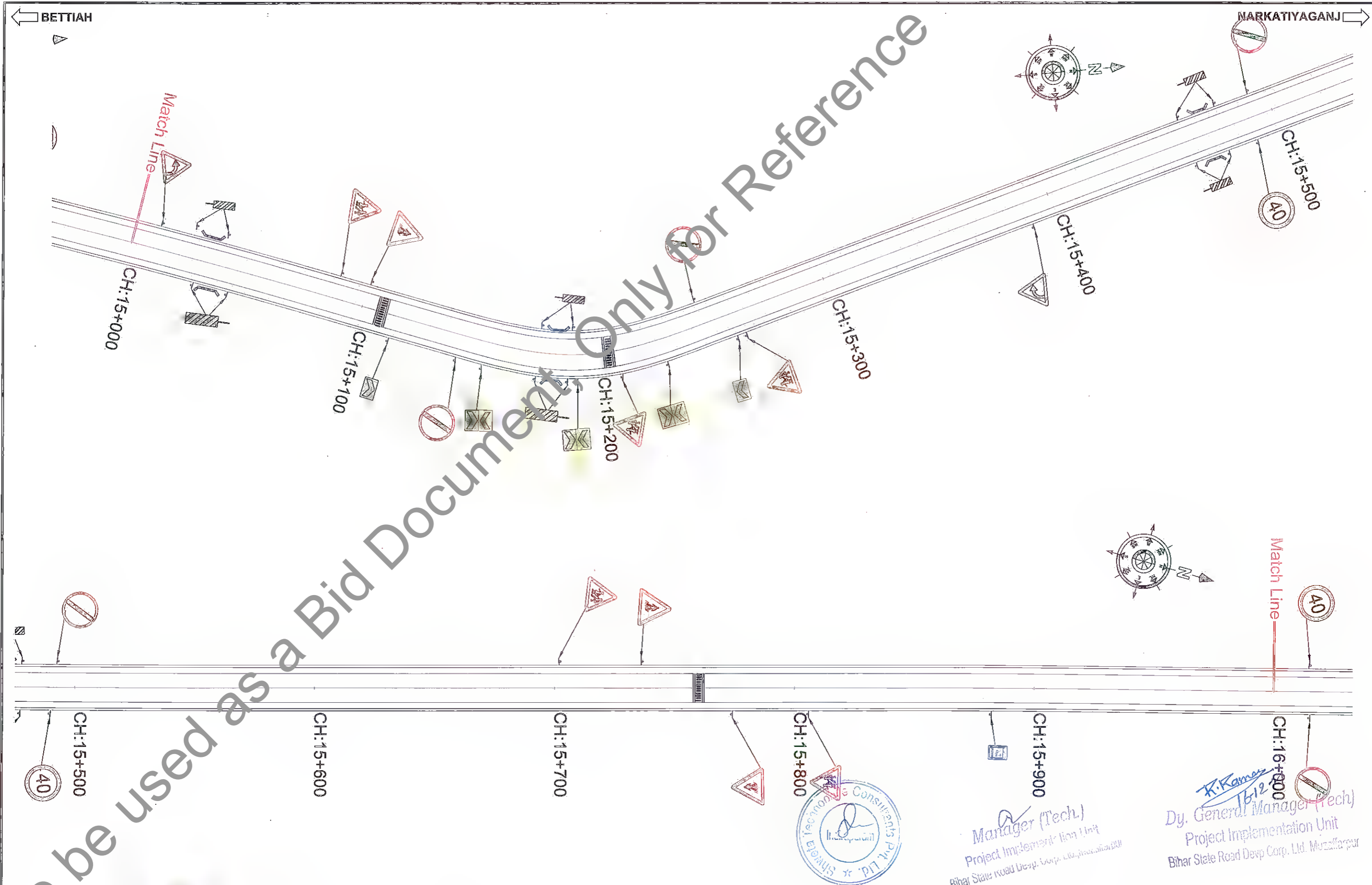
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K. Kamesh
16-12-2019
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muza



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Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Patna

R. Kumar
16/12
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	VIKRANT KUMAR			
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A
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Patna

K. Karna
 16-12-2018
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarnur

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DPR CONSULTANTS:
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 222-223,313, Rajhans Plaza,
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 Ghaziabad-201014

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TITLE:
 ROAD SIGNS
 CH 16+000 to 17+000

DRAWING NO.
 STC/BR/BSRDC/BNB/RS/17


A3

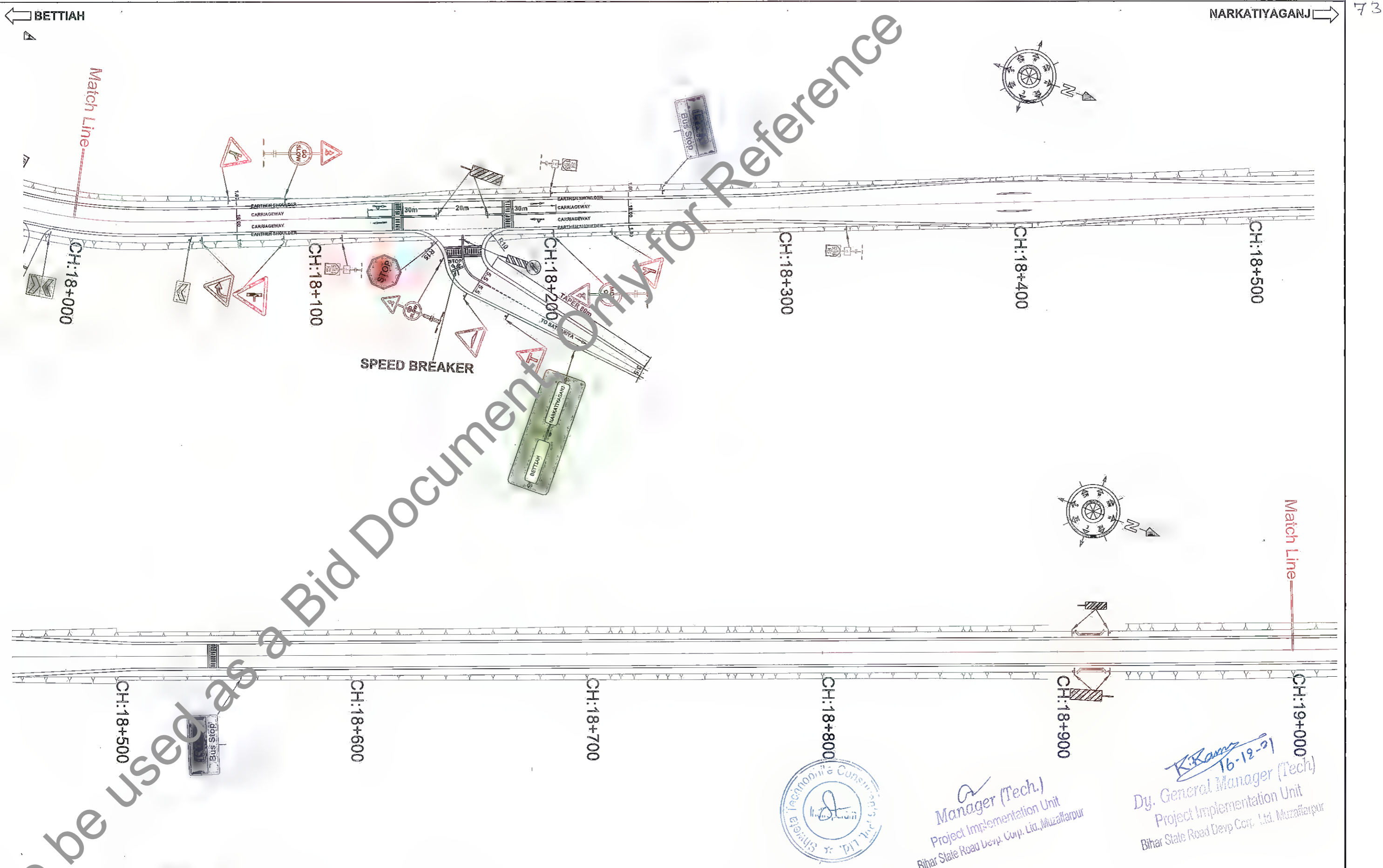


Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devel. Corp. Ltd.

Dy. General Manager (Tech)
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 Bihar State Road Devel. Corp. Ltd.

16-12-21

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R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR		
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	VIKRANT KUMAR		
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TITLE:
 ROAD SIGNS
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DRAWING NO.
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A3

R. Ram
 16-12-21
Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur



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BETTIAH ←

→ NARKATIYAGANJ

74

Match Line

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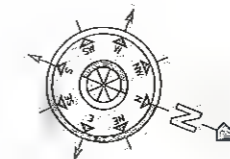
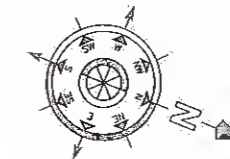
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CH:19+400

CH:19+500



Match Line

CH:19+500

CH:19+600

CH:19+700

CH:19+800

CH:19+900

CH:20+000



Ar
Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

K. Kumar
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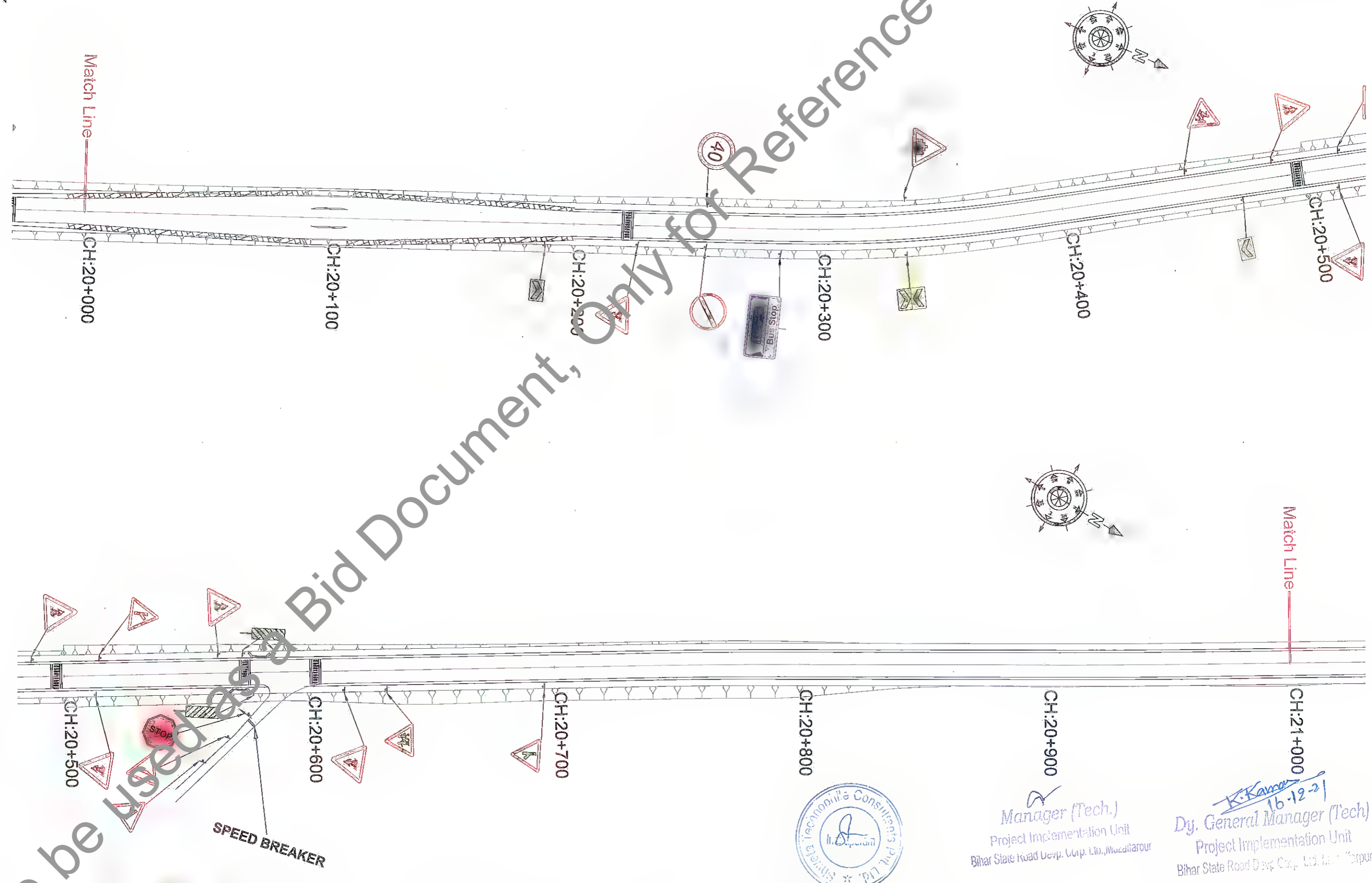
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ROAD SIGNS CH 19+000 to 20+000	
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A3



K. Kama
 Manager (Tech.)
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 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

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 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

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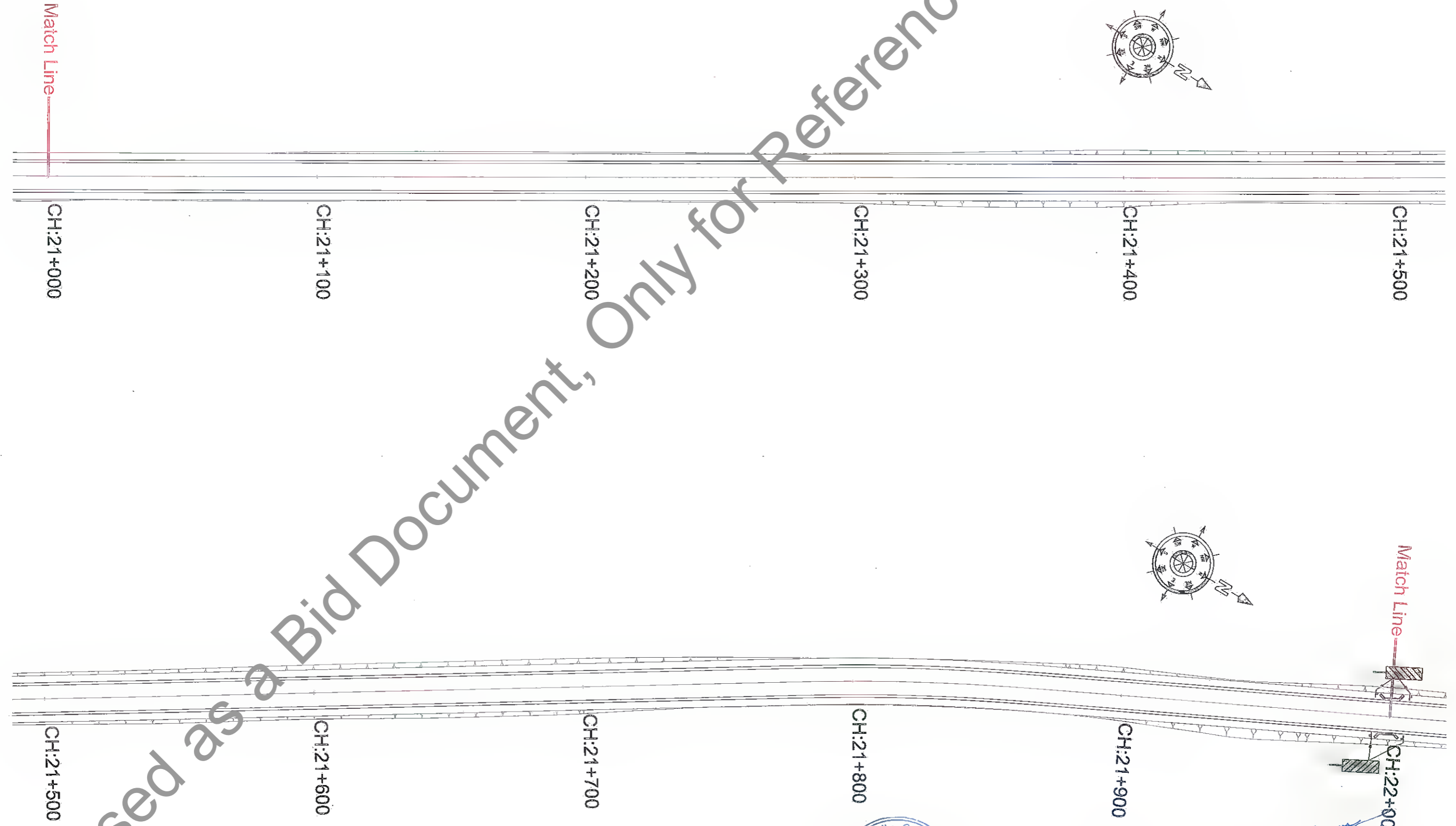
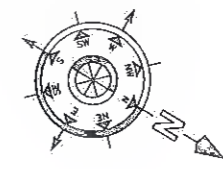
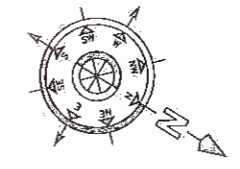
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 Ghaziabad-201014.

DRAWN BY: ARJUN SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: VIKRANT KUMAR
SCALE :- 1:1000


TITLE:
 ROAD SIGNS
 CH 20+000 to 21+000
DRAWING NO.,
 STC/BR/BSRDC/BNB/RS/21




An
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Karan
 16-12-2018
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2020	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

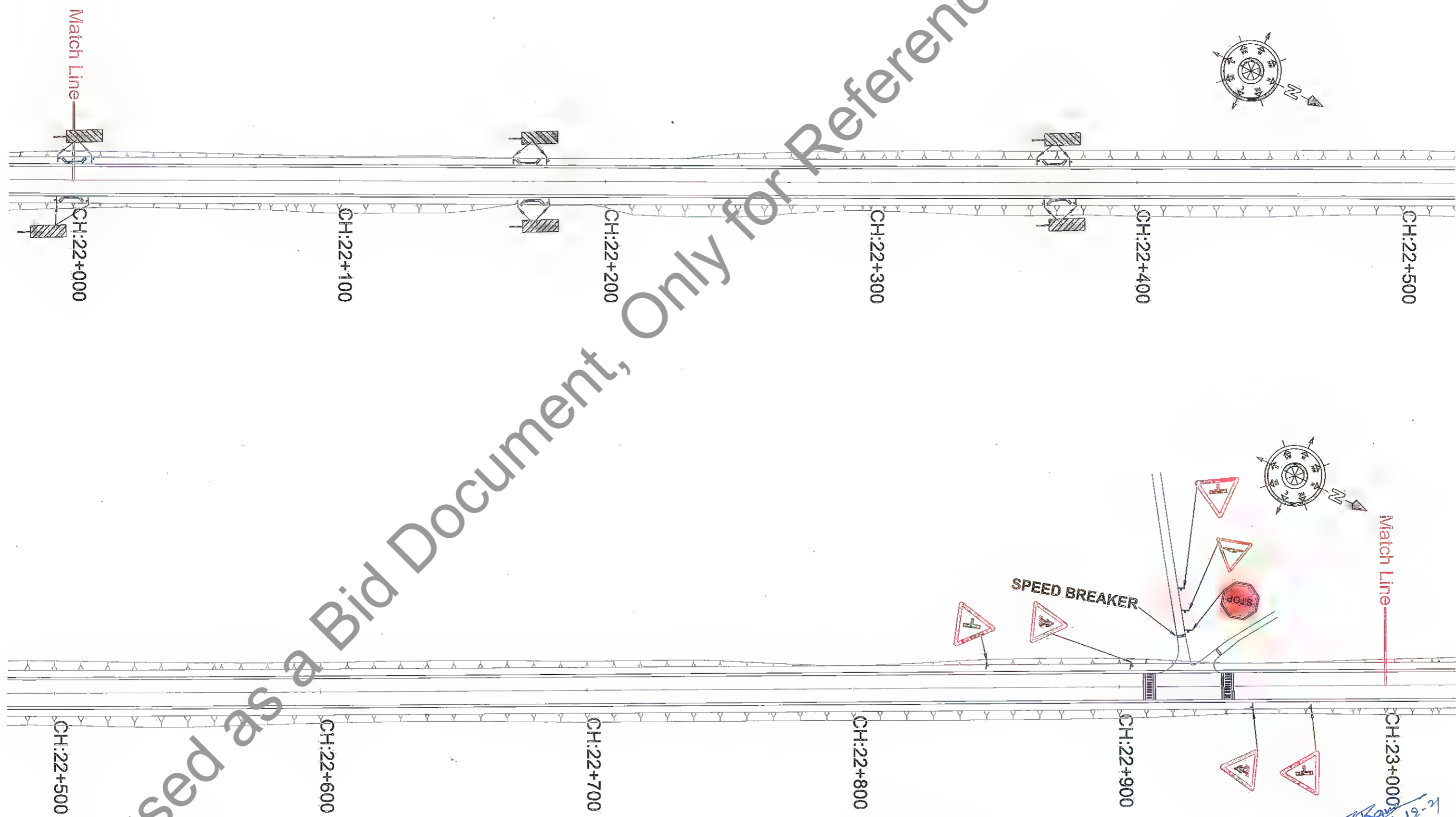
PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghazlabad-201014

DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:	
ROAD SIGNS CH 21+000 to 22+000	
DRAWING NO. STC/BR/BSRDC/BNB/RS/22	
A3	

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K. K. Singh
16-12-21
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2019	MODIFIED DPR
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

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DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014


DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

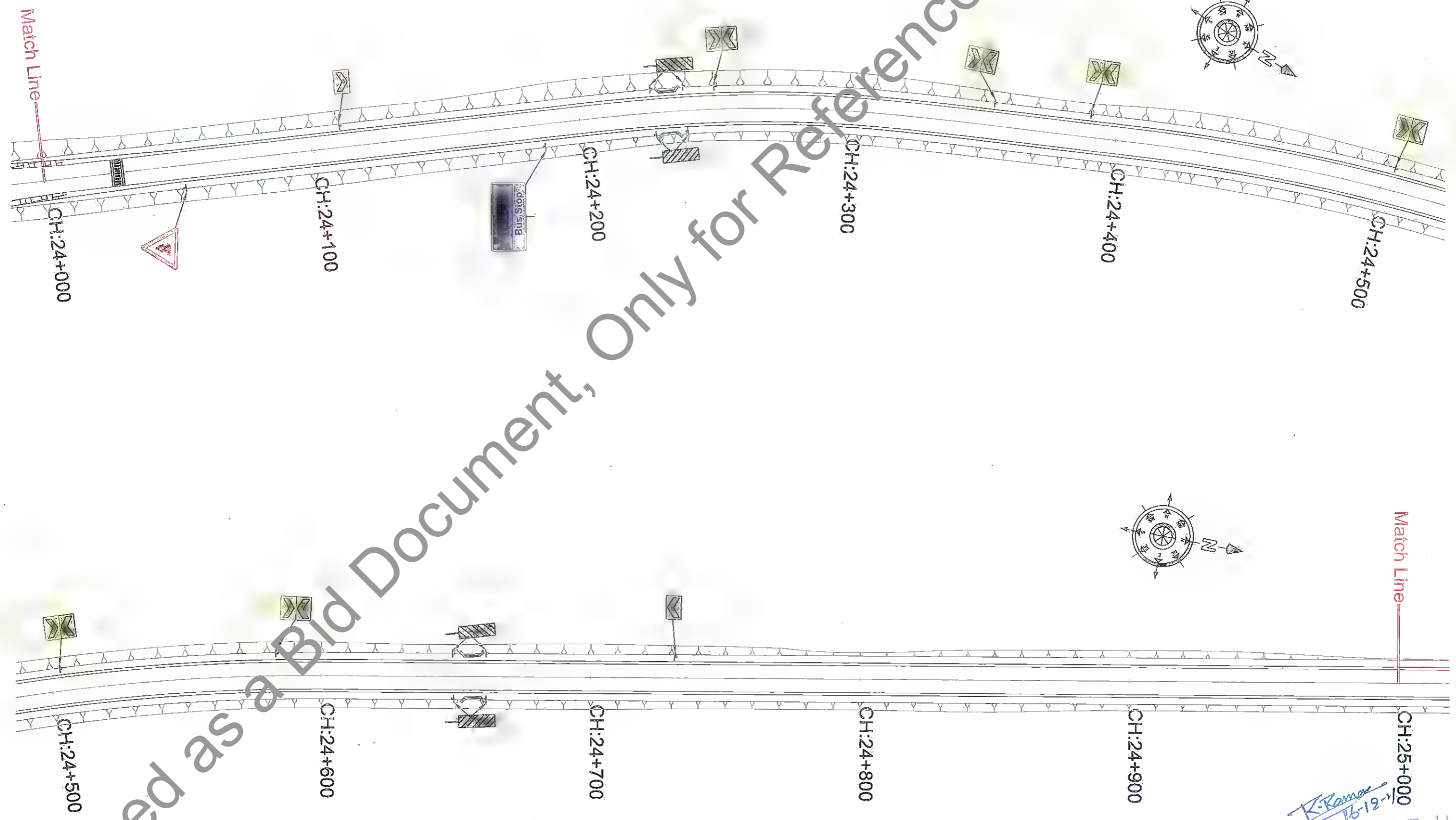
TITLE:
 ROAD SIGNS
 CH 22+000 to 23+000

DRAWING NO.
 STC/BR/BSRDC/BNB/RS/23



K. Rama
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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K. Ram
16-12-19
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

A
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghazalbad-201014

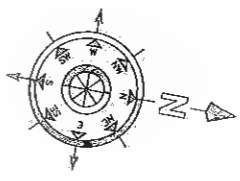
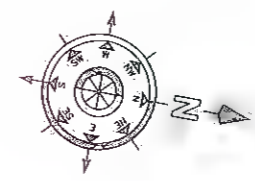
DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE	1:1000

TITLE:	
ROAD SIGNS CH 24+000 to 25+000	
DRAWING NO.	A3
STC/BR/BSRDC/BN/RS/26	

BETTIAH ←

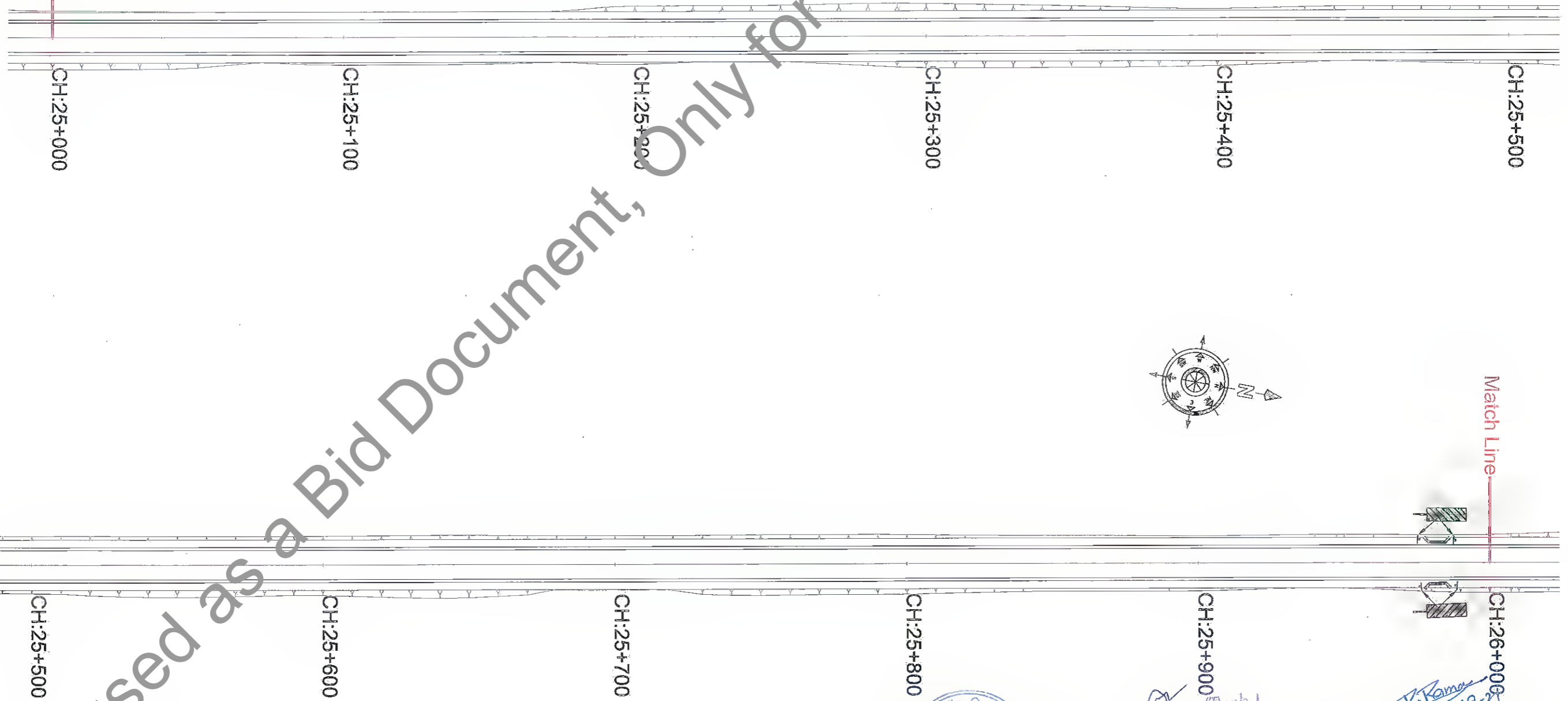
→ NARKATIYAGANJ

80



Match Line

Match Line



CH:25+000

CH:25+100

CH:25+200

CH:25+300

CH:25+400

CH:25+500

CH:25+500

CH:25+600

CH:25+700

CH:25+800


CH:25+900

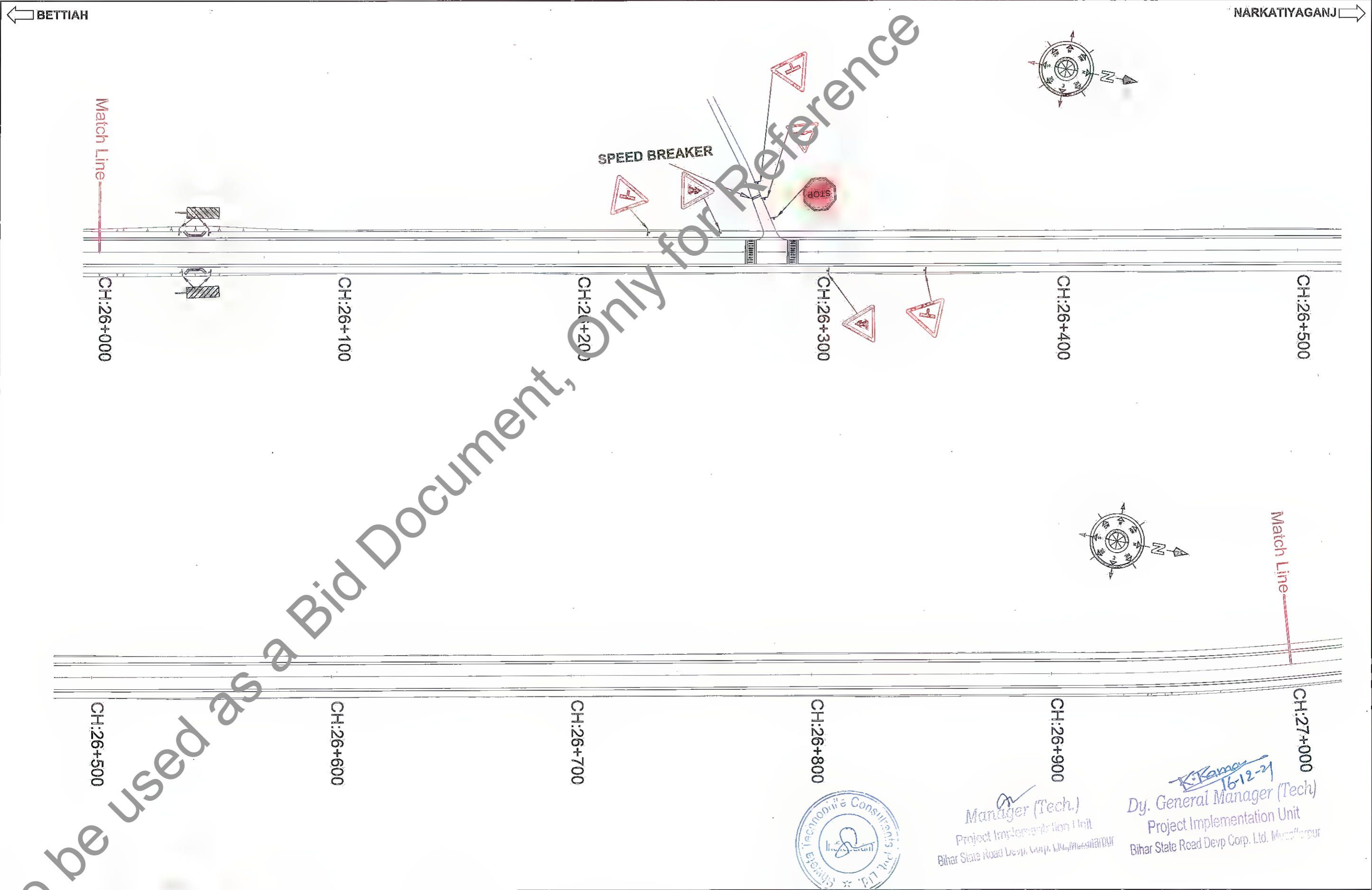
CH:26+000




[Signature]
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

[Signature]
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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DESIGN BY	JITENDER KUMAR																												
CHECKED BY	VIKRANT KUMAR																												
SCALE :-	1:1000																												



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R2	OCTOBER 2018	FINAL DPR

CLIENT:

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 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-4, Indrapuram,
 Ghaziabad-201014

DRAWN BY	ARIJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 26+000 to 27+000

DRAWING NO.
 STC/BR/BSRDC/BNB/RS/27


A3

K. Kama
 16-12-21
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur





R1	JULY 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC. 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

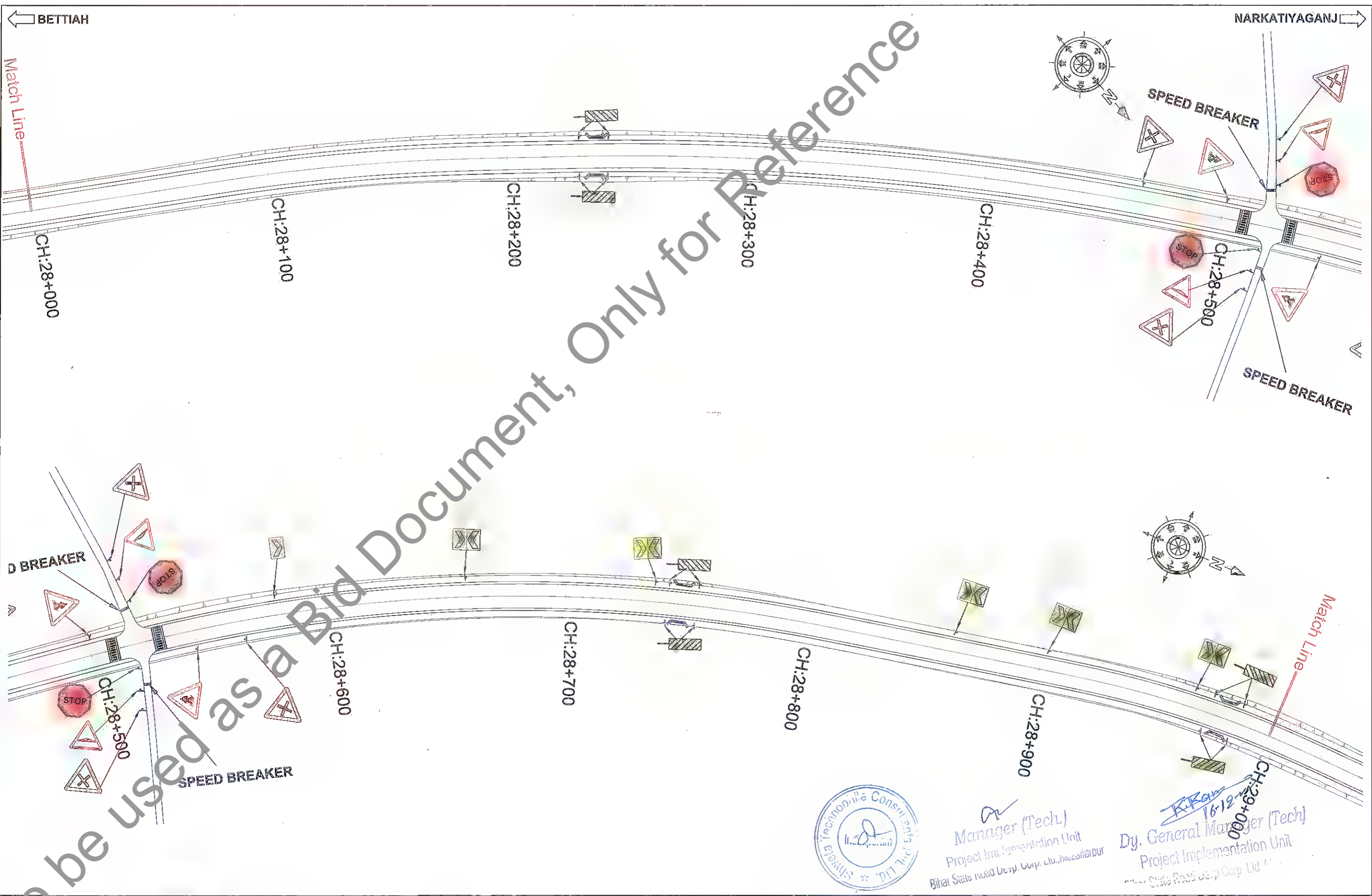
DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghazlabad-201014

DRAWN BY ARIJUN SINGH
DESIGN BY JITENDER KUMAR
CHECKED BY VIKRANT KUMAR
SCALE :- 1:1000


TITLE:
 ROAD SIGNS
 CH 27+000 to 28+000
DRAWING NO.
 STC/BR/BSRDC/BNB/RS/28
A3

K. Ramakrishna
 16/12/21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev Corp. Ltd. Muzaffarpur





R1	JULY 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 28+000 to 29+000

DRAWING NO.:
 STC/BR/BSRDC/BNB/RS/29

A3



[Signature]
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd., Patna


[Signature]
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd., Patna

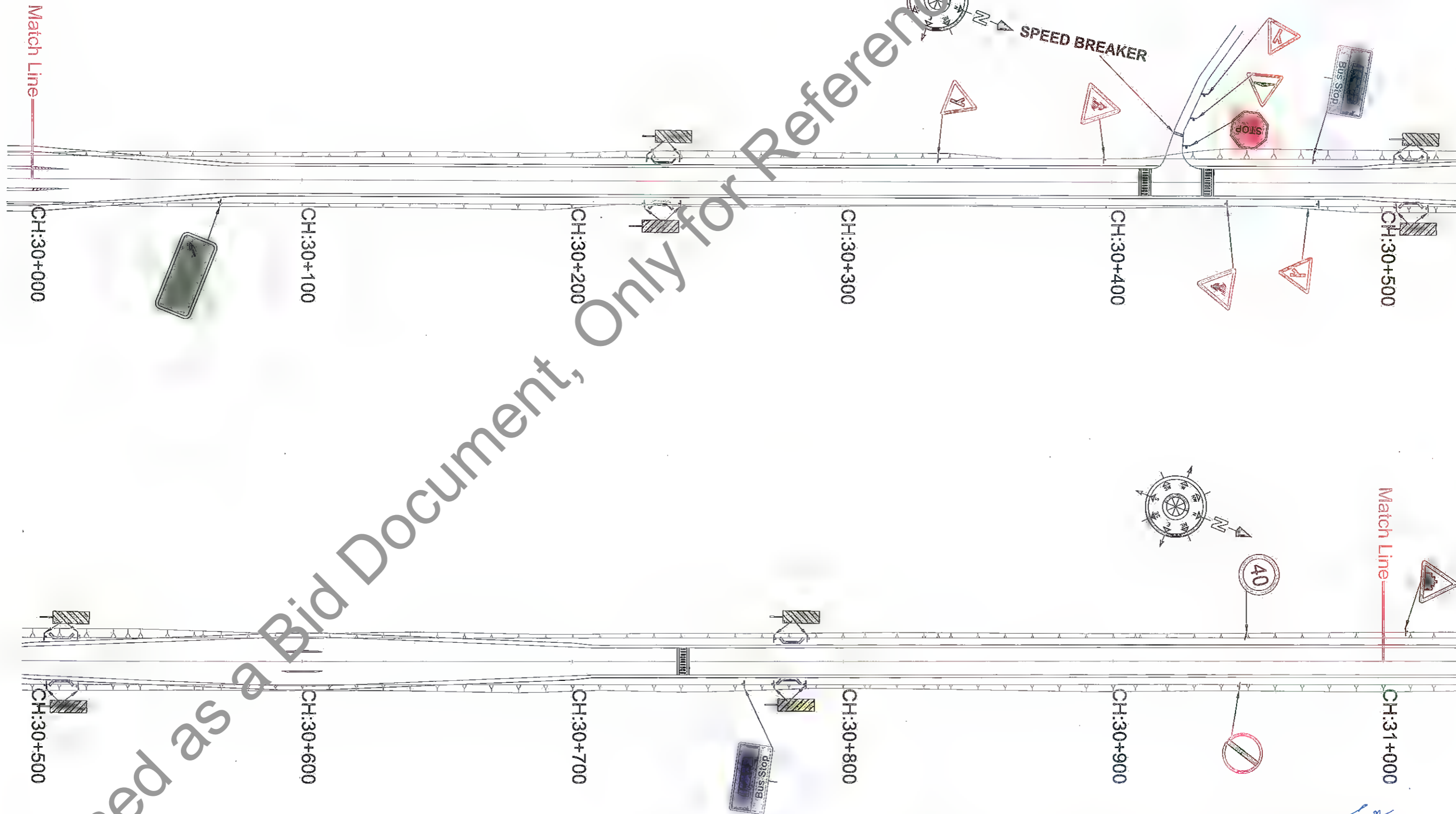


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K.K.
16/12/2018
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Patna
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muz.

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CH:30+000 CH:30+100 CH:30+200 CH:30+300 CH:30+400 CH:30+500

CH:30+500 CH:30+600 CH:30+700 CH:30+800 CH:30+900 CH:31+000


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[Signature]
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

[Signature] 16-12-22
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

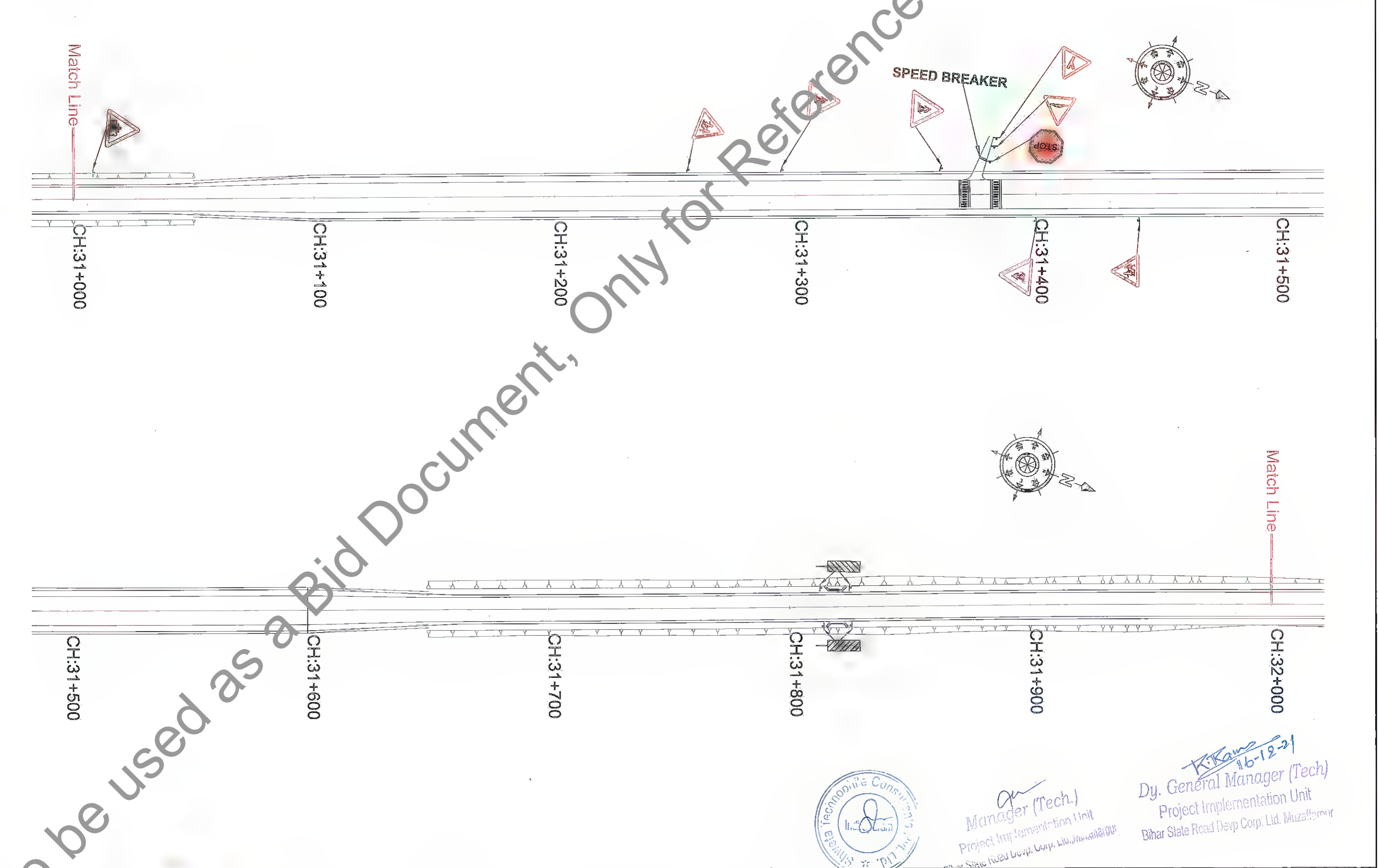
PROJECT:
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DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
 222-223, 313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 30+000 to 31+000

DRAWING NO.
 STC/BR/BSRDC/BNB/RS/31




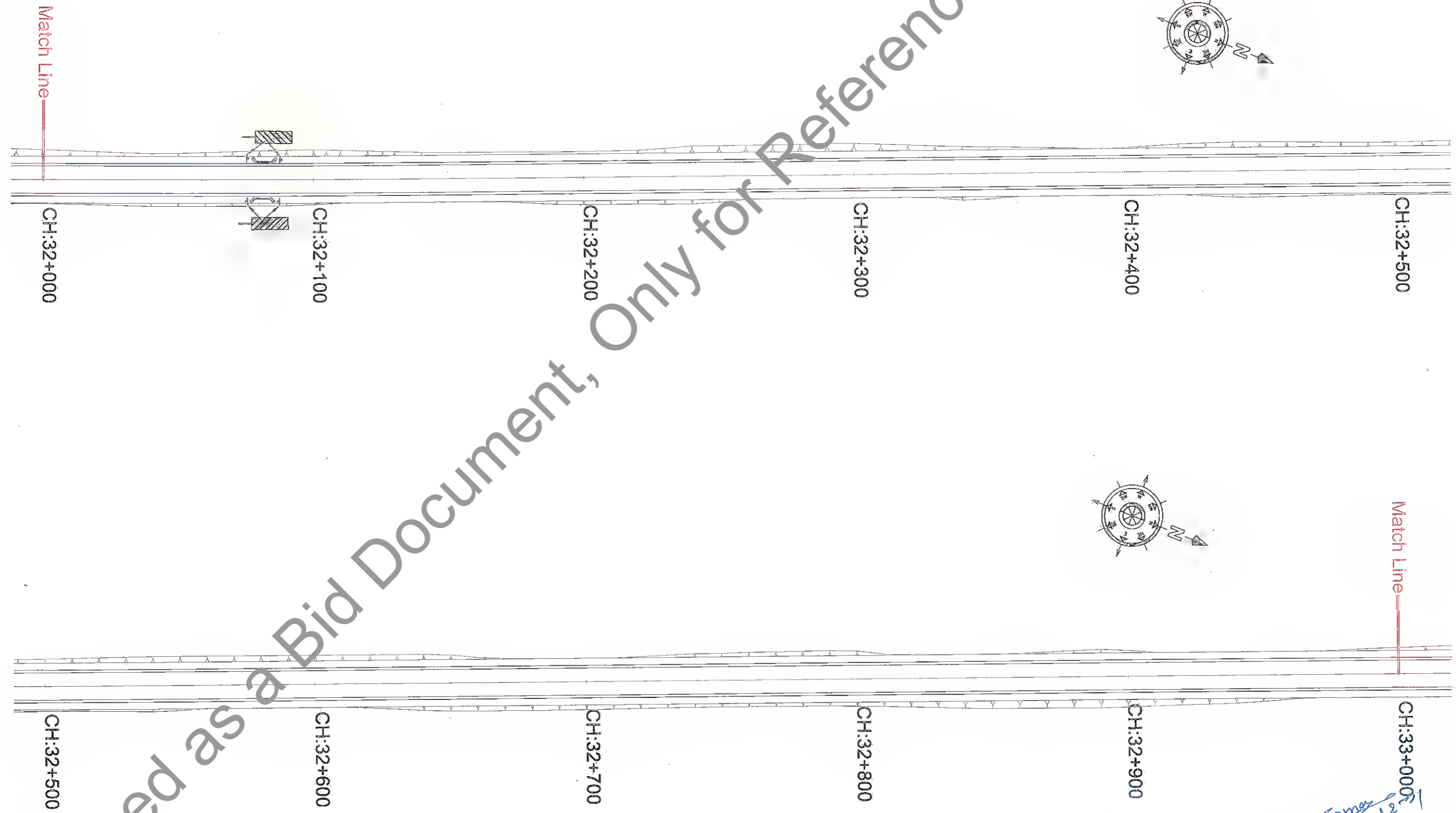
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K. K. Rawat
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarnur

[Signature]
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarnur


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An
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Patna, Bihar

R. Ramesh
 16.12.21
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Patna, Bihar

R3	JULY 2019	MODIFIED DPR
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REV.	DATE	DESCRIPTION OF REVISIONS

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BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
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 Ghaziabad-201014

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DESIGN BY	JITENDER KUMAR
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SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 32+000 to 33+000.

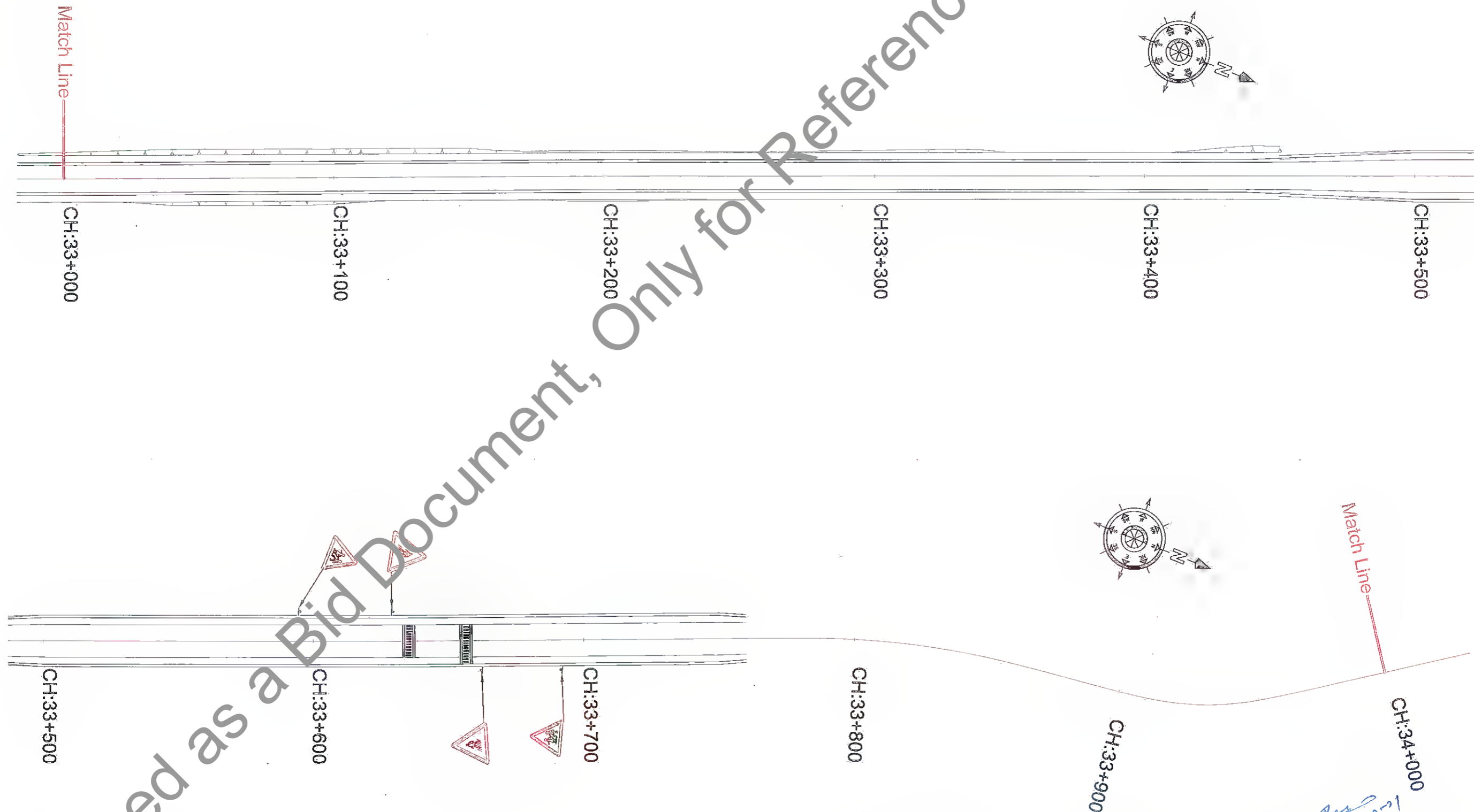
DRAWING NO.
 STC/BR/BSRDC/BNB/RS/33

A3

← BETTIAH

NARKATIYAGANJ →


88



[Signature]
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

[Signature] 16.12.21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY	ARIJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 33+000 to 34+000


DRAWING NO.
 STC/BR/BSRDC/BNB/RS/34

BETTIAH ←

→ NARKATIYAGANJ




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 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur
 16-12-21



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUNE 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

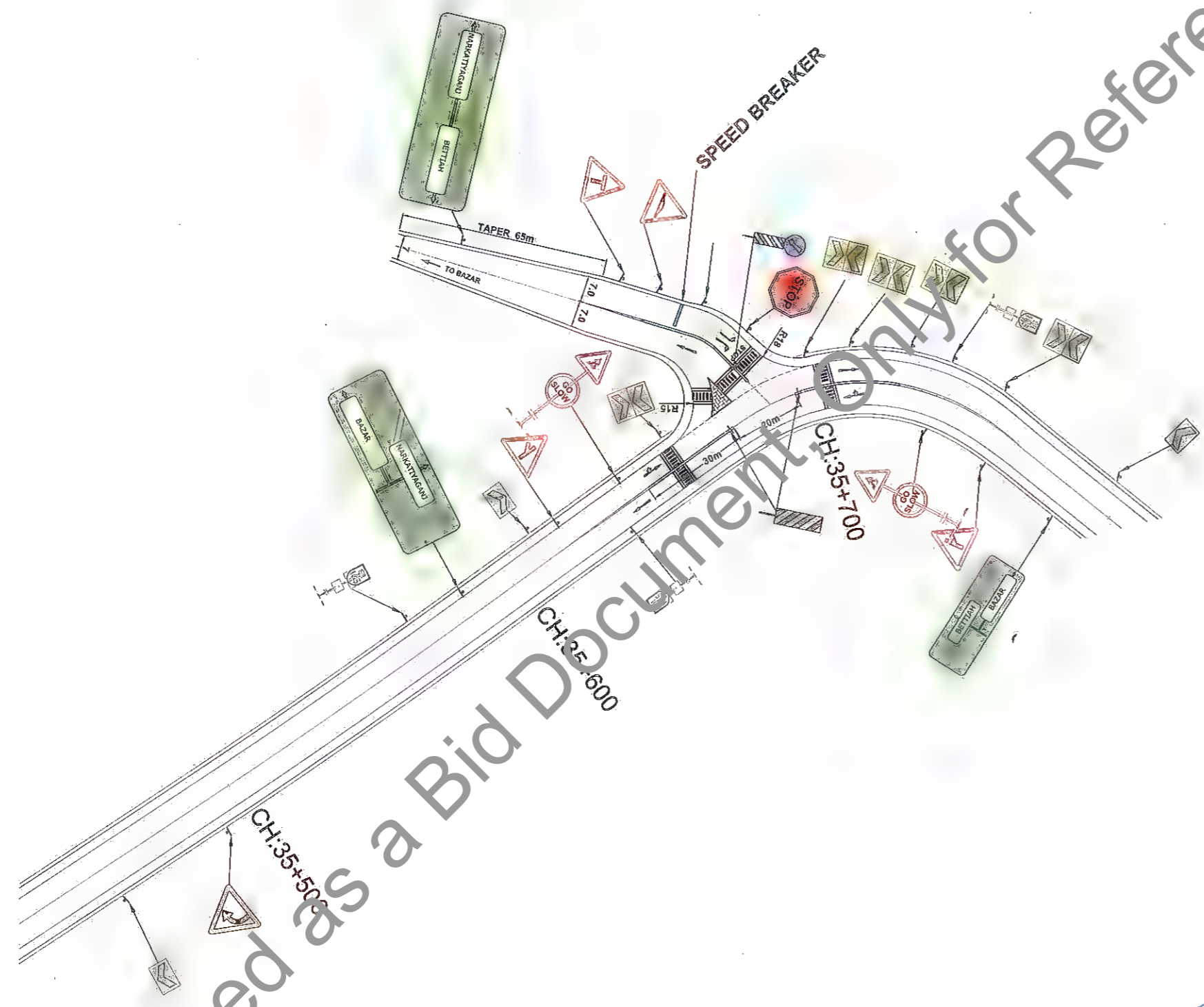
CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014


DRAWN BY	ARIJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:	
ROAD SIGNS CH 35+000 to 35+500.	
DRAWING NO.	A3
STC/BR/BSRDC/BN/RS/35	



K. K. Roy
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur



R5	JULY 2019	MODIFIED DPR	CLIENT:  BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: STC Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	DRAWN BY	ARJUN SINGH	TITLE: ROAD SIGNS CH 35+000 to 35+700	
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR		
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	VIKRANT KUMAR		
R2	OCTOBER 2018	FINAL DPR				SCALE :- 1:1000		DRAWING NO.	STC/BR/BSRDC/BNB/RS/38
REV.	DATE	DESCRIPTION OF REVISIONS							A3

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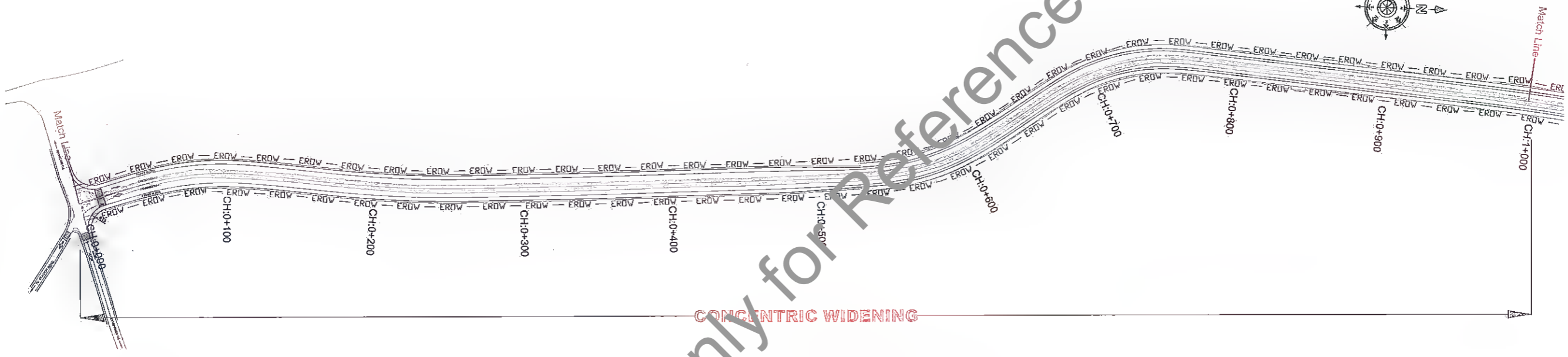
STRIP PLAN



BETTIAH ←

→ NARKATIYAGANJ

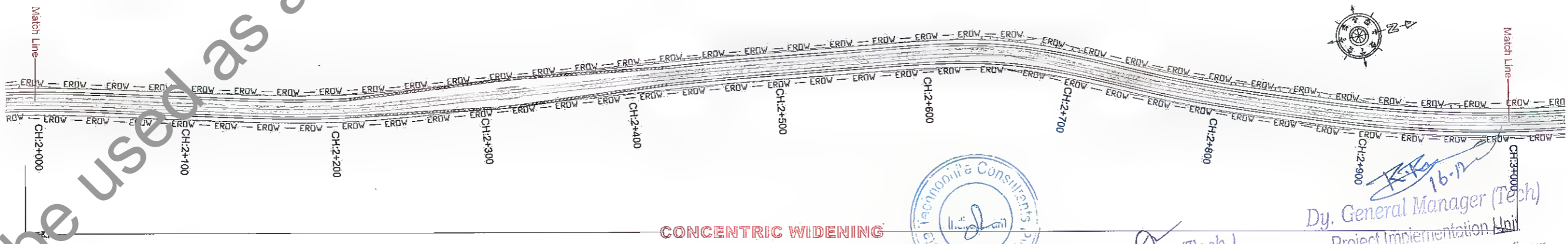
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CONCENTRIC WIDENING



CONCENTRIC WIDENING



CONCENTRIC WIDENING



Manager (Tech.)
Project Implementation Unit

Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2019	MODIFIED DPR
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

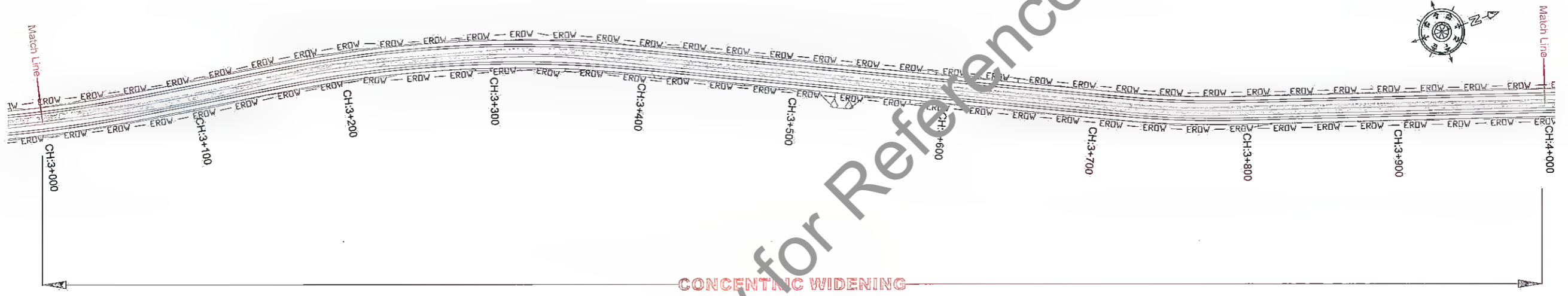
DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-1, Indirapuram,
Ghaziabad-201014

DRAWN BY	ASHISH SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	

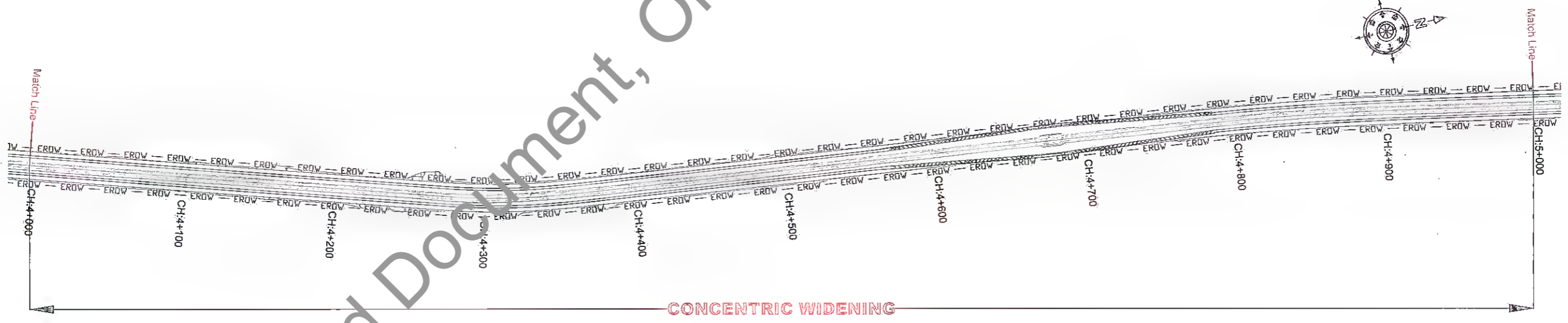
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CH 0+000 to 3+000**

DRAWING NO.
STC/BR/BSRDC/BNB/SP/01

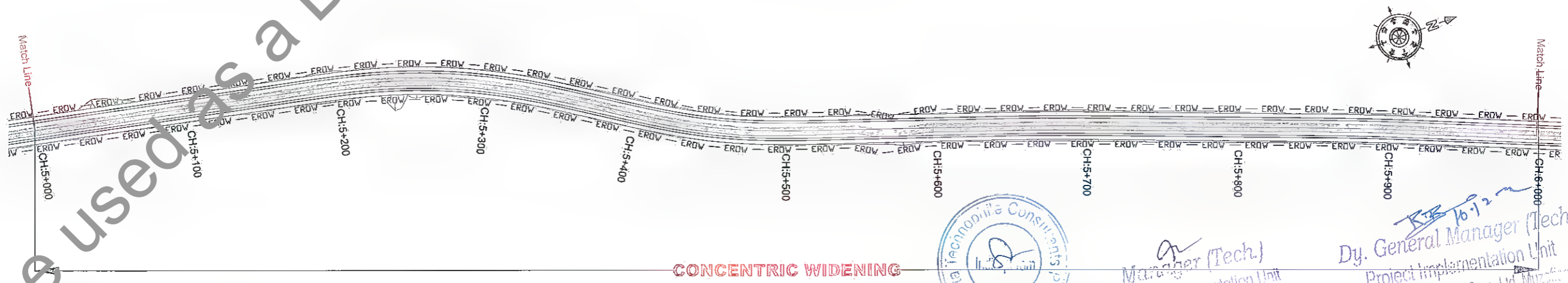
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CONCENTRIC WIDENING



CONCENTRIC WIDENING




CONCENTRIC WIDENING



Manager (Tech)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd., Muzaffarpur

10.12
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd., Muzaffarpur

R1	JULY 2011	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS:

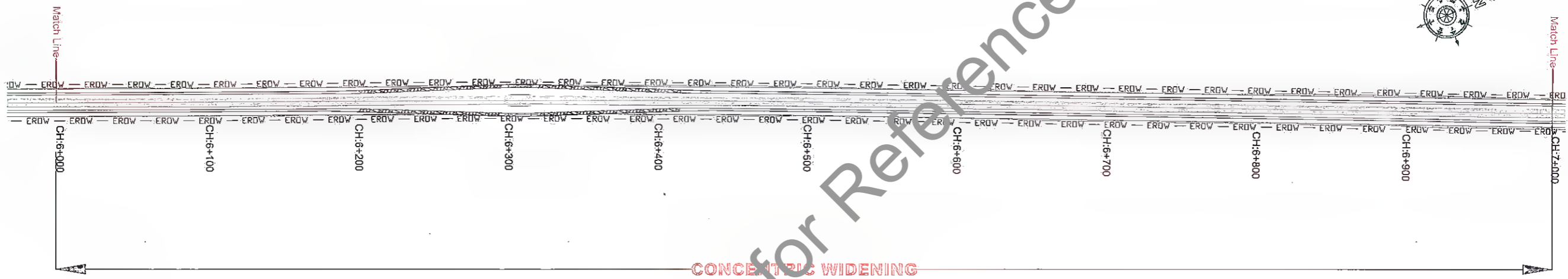
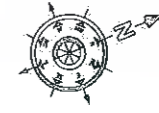
CLIENT:
 **BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)**

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

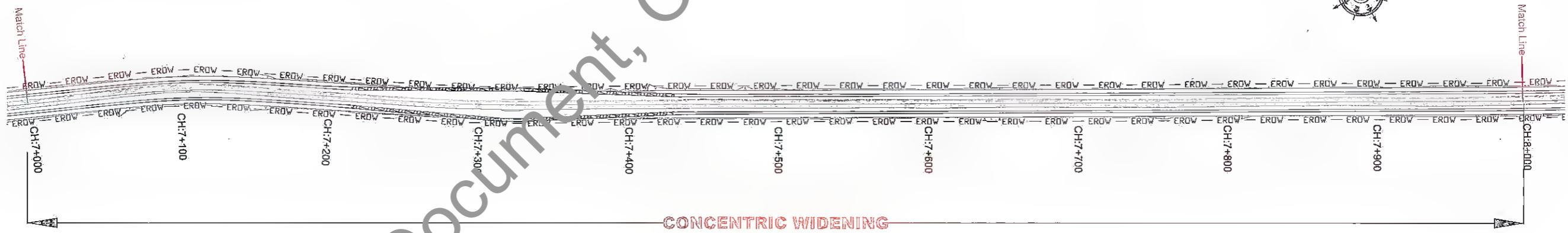
DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY ASHISH SINGH
DESIGN BY JITENDER KUMAR
CHECKED BY GEETA JINDAL
HORIZONTAL SCALE 1:2000

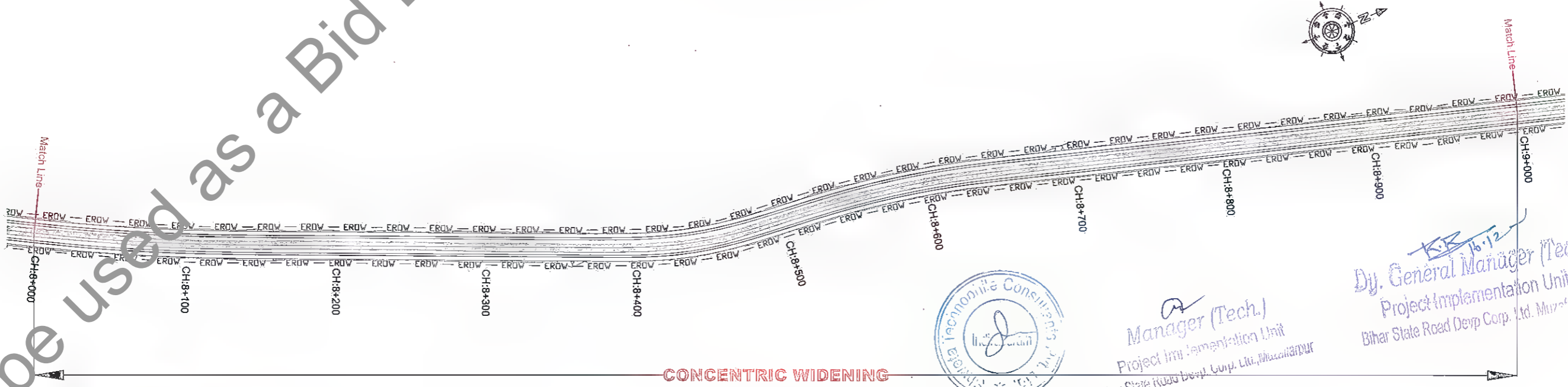
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STRIP PLAN
CH 3+000 TO 6+000
DRAWING NO.
STC/BR/SSRDC/BNB/SP/02
A3



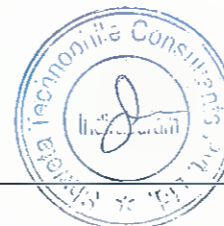
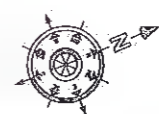
CONCENTRIC WIDENING



CONCENTRIC WIDENING




CONCENTRIC WIDENING



(Signature)
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devt. Corp. Ltd., Muzaffarpur

(Signature) 16.12
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devt. Corp. Ltd., Muzaffarpur

R1	JULY 2017	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

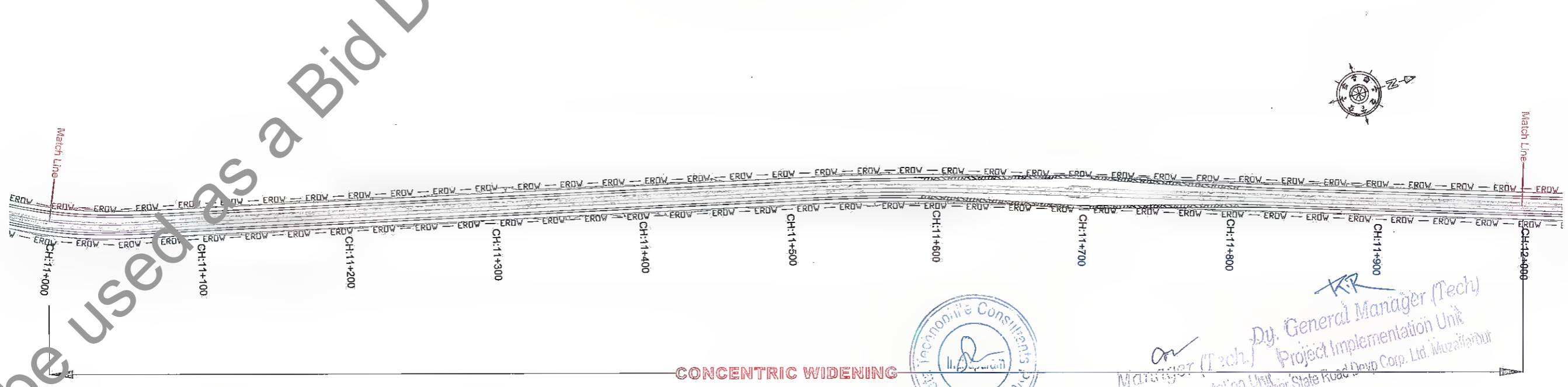
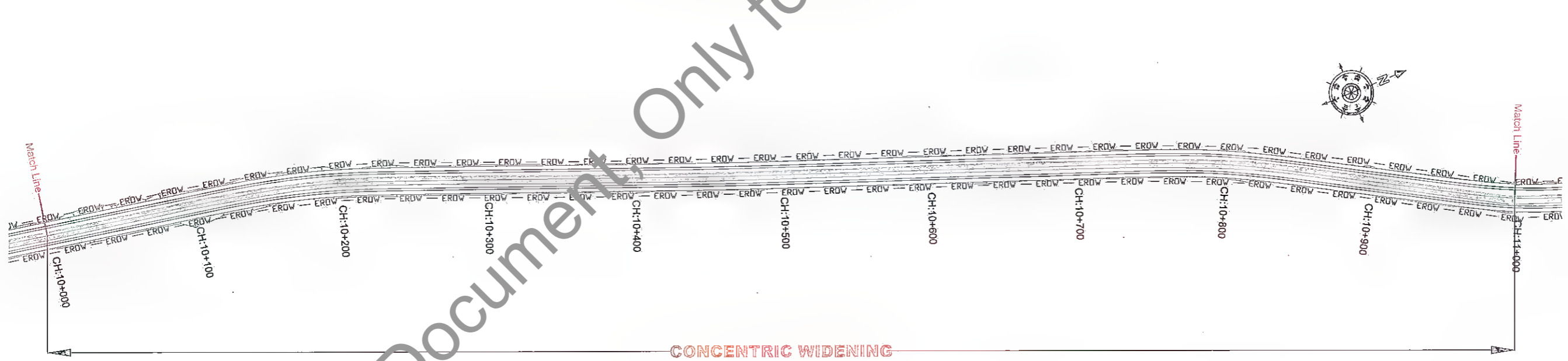
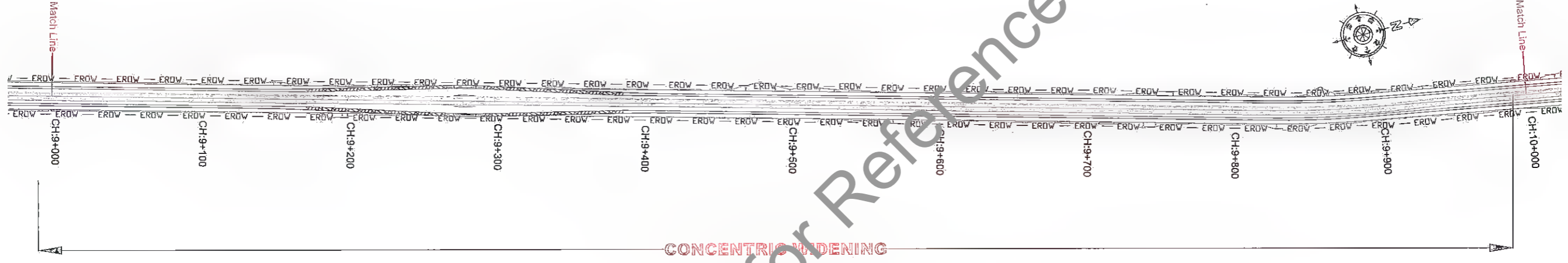
DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY:	ASHISH SINGH
DESIGN BY:	JITENDER KUMAR
CHECKED BY:	GEETA JINDAL
HORIZONTAL SCALE 1:2000	

TITLE:	
STRIP PLAN CH 6+000 TO 9+000	
DRAWING NO.	STC/BR/BSRDC/BNB/SP/03
A3	


BETTIAH

NARKATIYAGANJ



KR
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur

REV	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

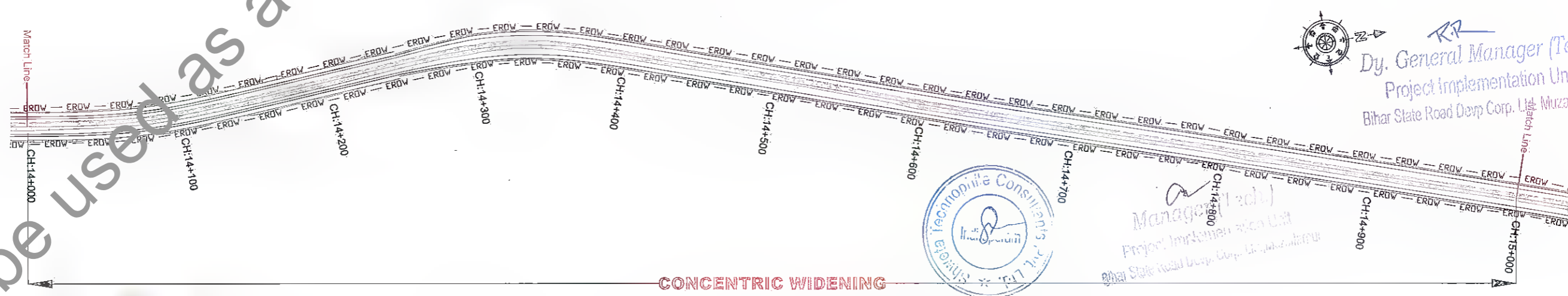
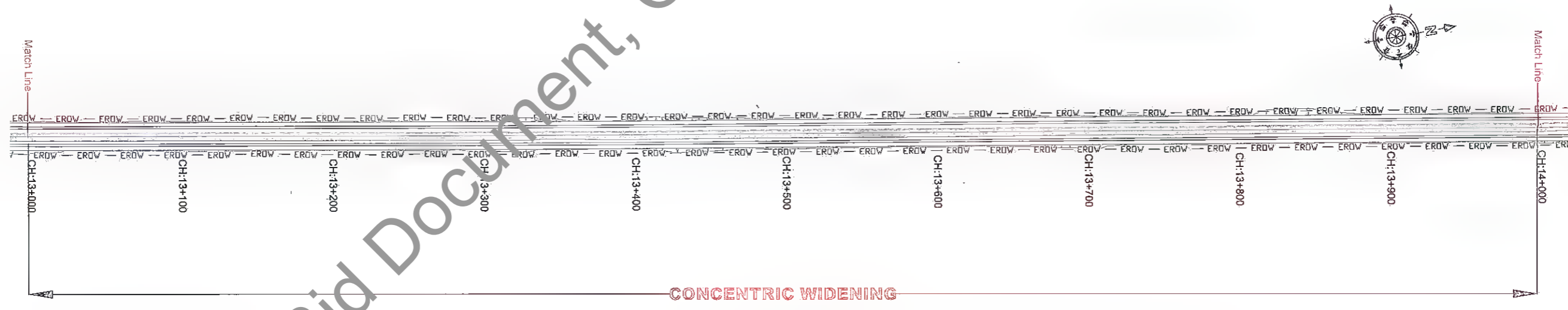
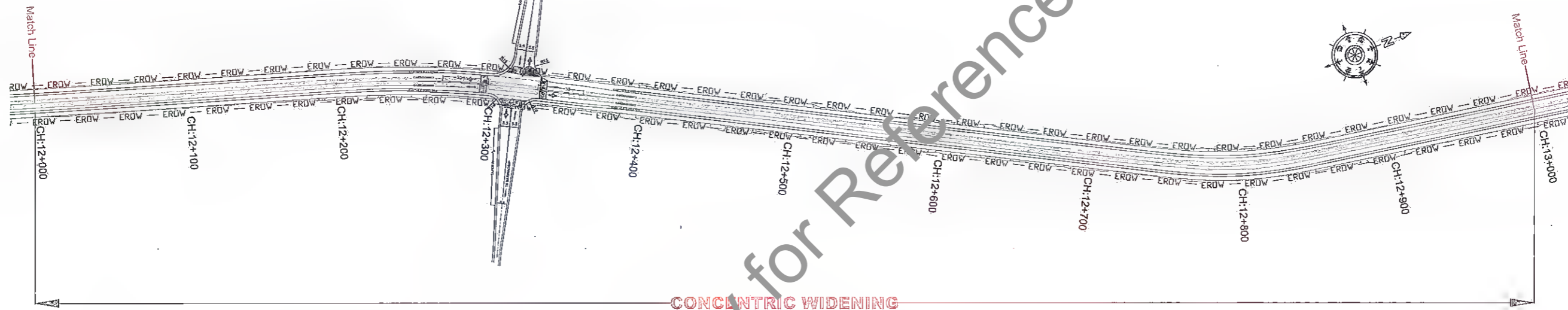
PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

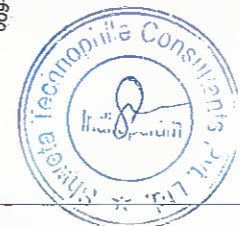
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DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 STRIP PLAN
 CH 9+000 to 12+000
DRAWING NO.
 STC/BR/BSRDC/BNB/SP/04
 A3


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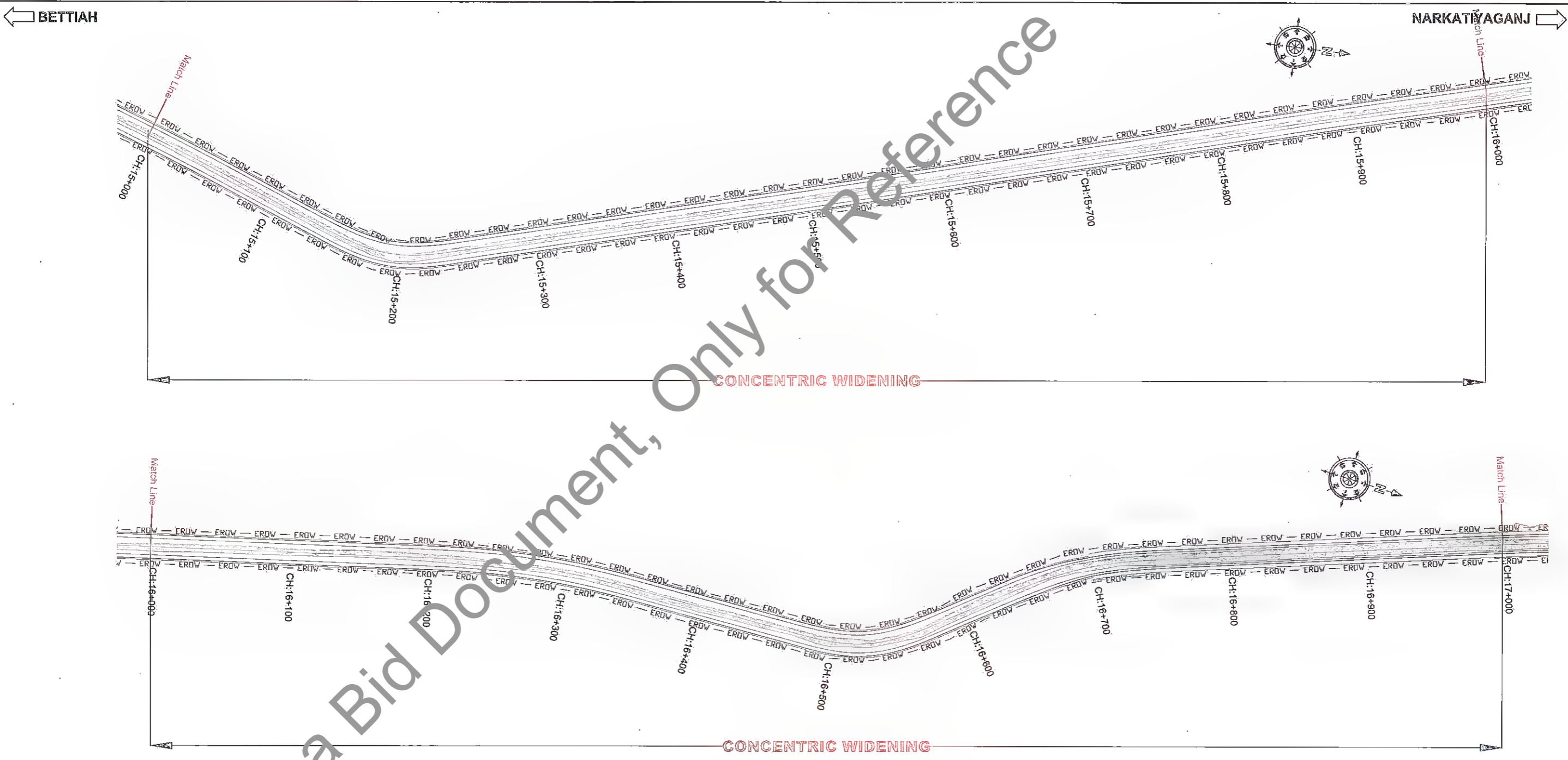


R.R.
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffar



Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffar

R5	JULY 2019	MODIFIED DPR	CLIENT:  BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: STC Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	DRAWN BY ASHISH SINGH	TITLE: STRIP PLAN CH 12+000 to 15+000
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY JITENDER KUMAR.	
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY GEETA JINDAL	
R2	OCTOBER 2018	FINAL DPR				HORIZONTAL SCALE 1:2000	DRAWING NO. STC/BR/BSRDC/BNB/SP/05
REV.	DATE	DESCRIPTION OF REVISIONS					A3




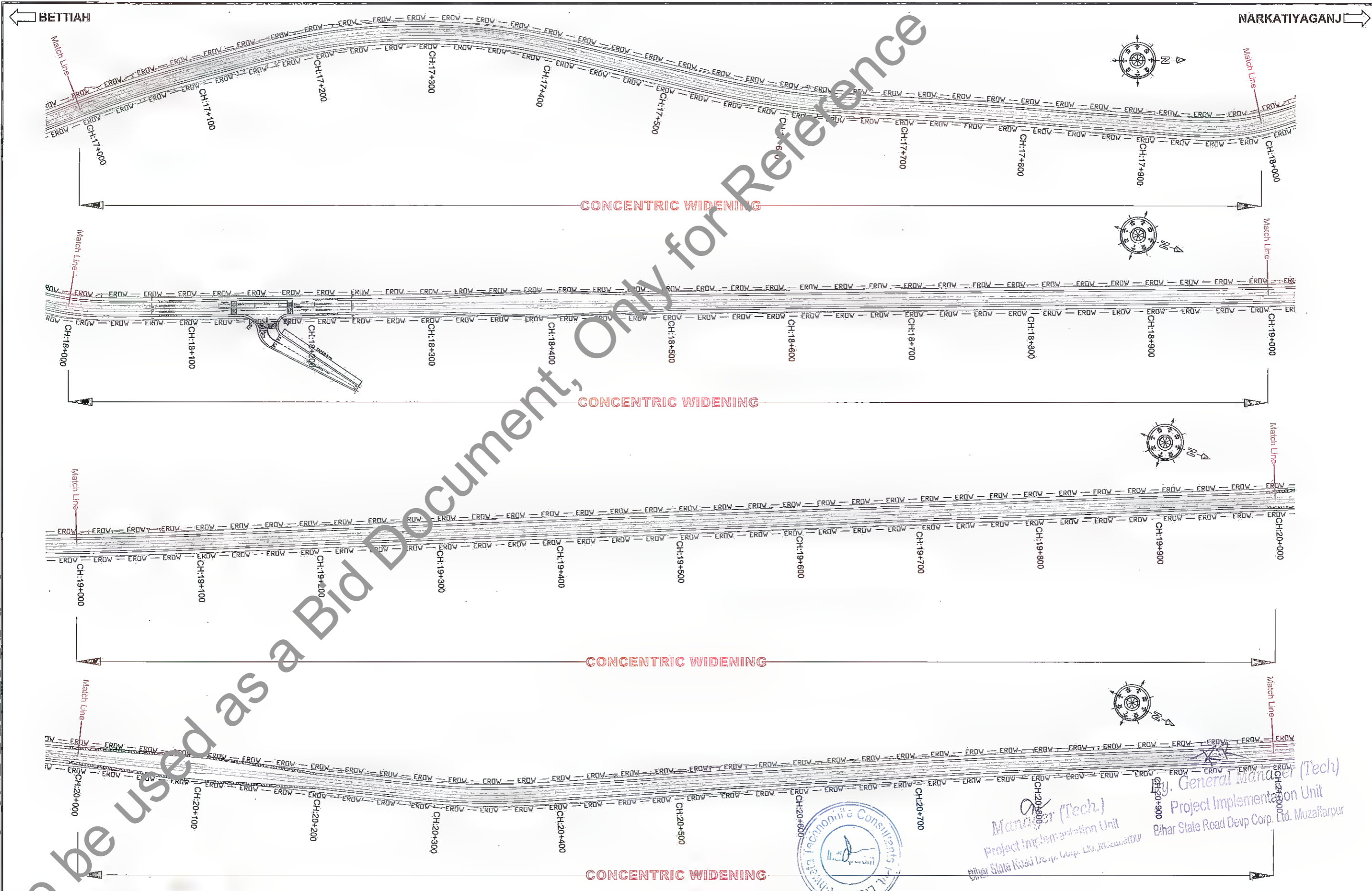
CONCENTRIC WIDENING

CONCENTRIC WIDENING


K.R.
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur



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R1	DEC 2018	CLIENT SUGGESTION INCORPORATED																											
R2	OCTOBER 2018	FINAL DPR																											
REV.	DATE	DESCRIPTION OF REVISIONS																											
DRAWN BY	ASHISH SINGH																												
DESIGN BY	JITENDER KUMAR																												
CHECKED BY	GEETA JINDAL																												
HORIZONTAL SCALE 1:2000																													



REV.	DATE	DESCRIPTION OF REVISIONS
R3	JUL 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

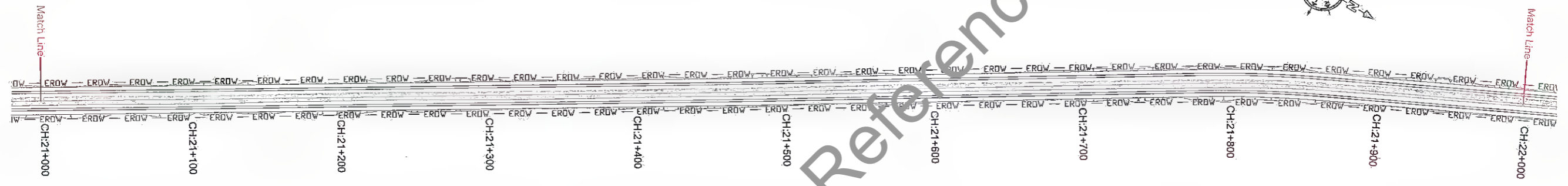
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DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL
 HORIZONTAL SCALE
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TITLE:
 STRIP PLAN
 CH 17+000 to 21+000
DRAWING NO.
 STC/BR/BSRDC/BNB/SP/07
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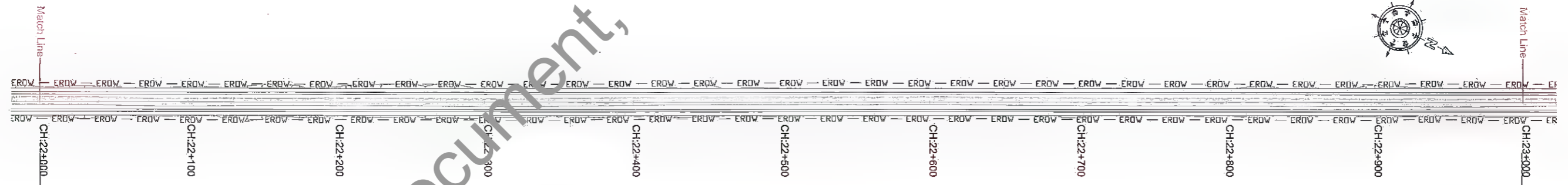
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Patna
General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

BETTIAH

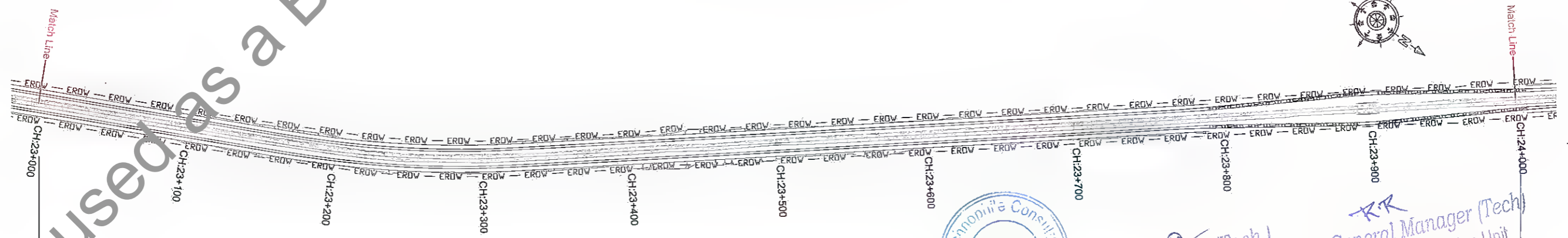
NARKATIYAGANJ



CONCENTRIC WIDENING



CONCENTRIC WIDENING




CONCENTRIC WIDENING



K.R.
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

R.R.
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUL 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
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R2	OCTOBER 2018	FINAL DPR

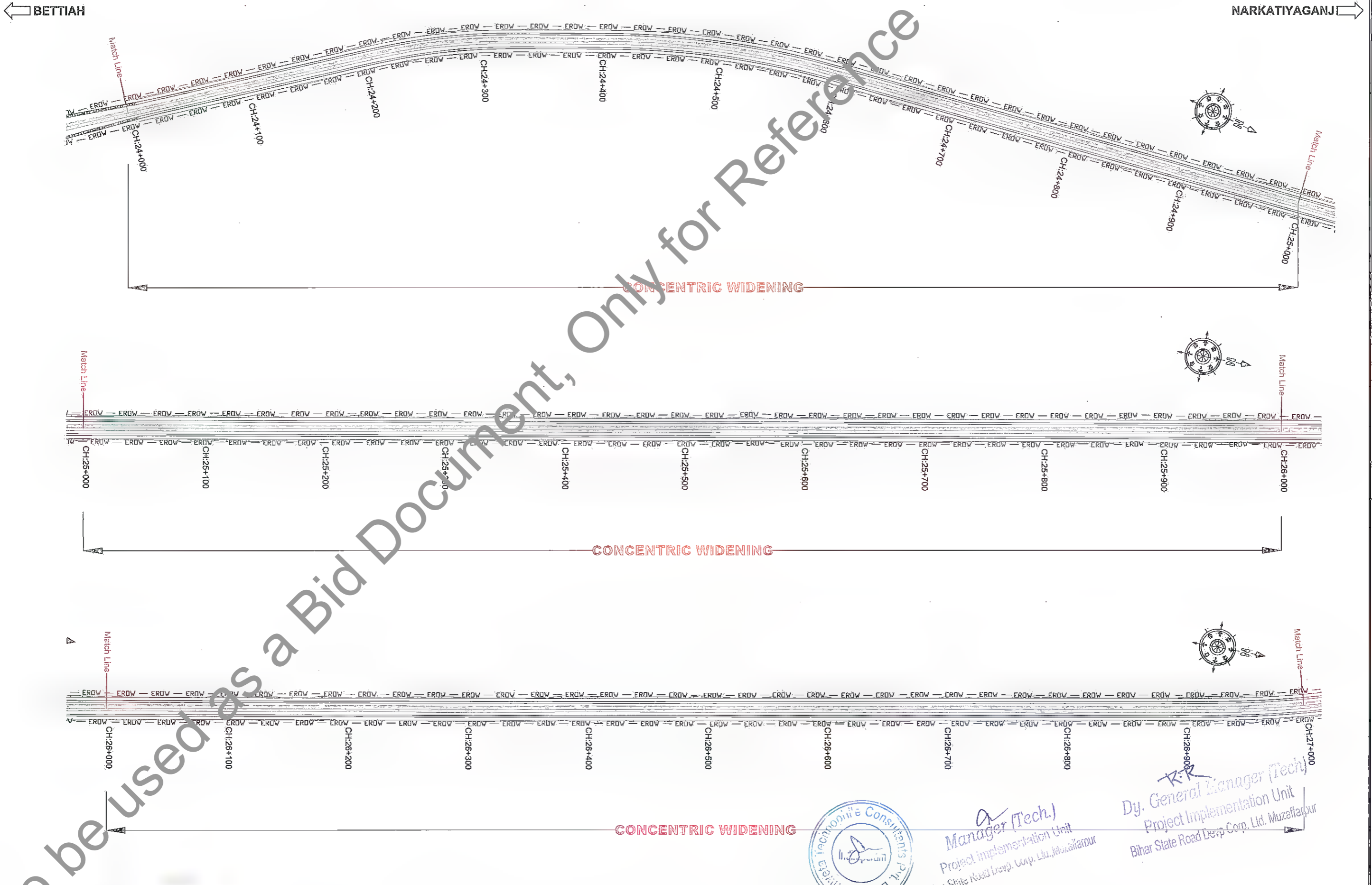
CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)


DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL
HORIZONTAL SCALE: 1:2000

TITLE:
 STRIP PLAN
 CH 21+000 to 24+000
DRAWING NO.
 STC/BR/BSRDC/BNB/SP/08
 A3



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC 2018	CLIENT SUGGESTION INCORPORATED
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

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Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

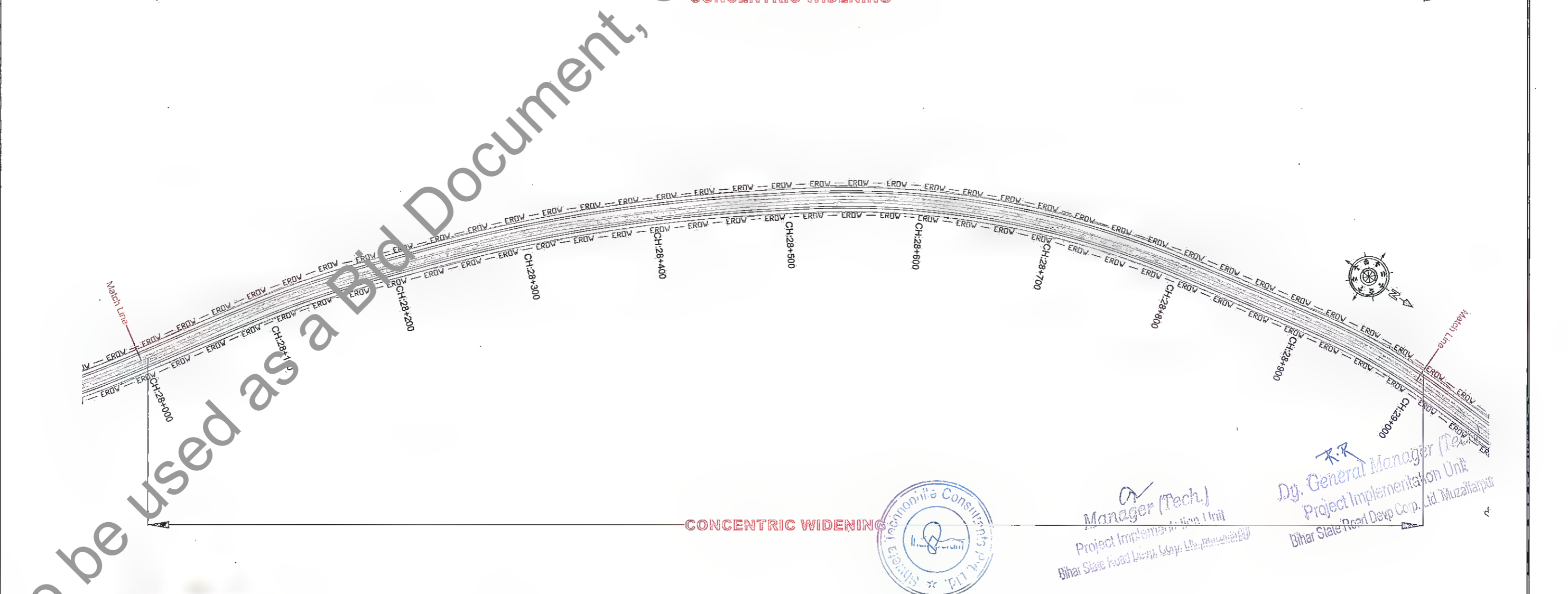
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL
HORIZONTAL SCALE: 1:2000


TITLE:
 STRIP PLAN
 CH-24+000 to 27+000
DRAWING NO.:
 STC/BR/BSRDC/BNB/SP/09
A3

K.R.
Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2019	MODIFIED DPR
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

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PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 STRIP PLAN
 CH 27+000 to 29+000
 DRAWING NO.
 STC/BR/BSRDC/BNB/SP/10

HORIZONTAL SCALE:
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A3

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(Signature)
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Patna

(Signature)
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur

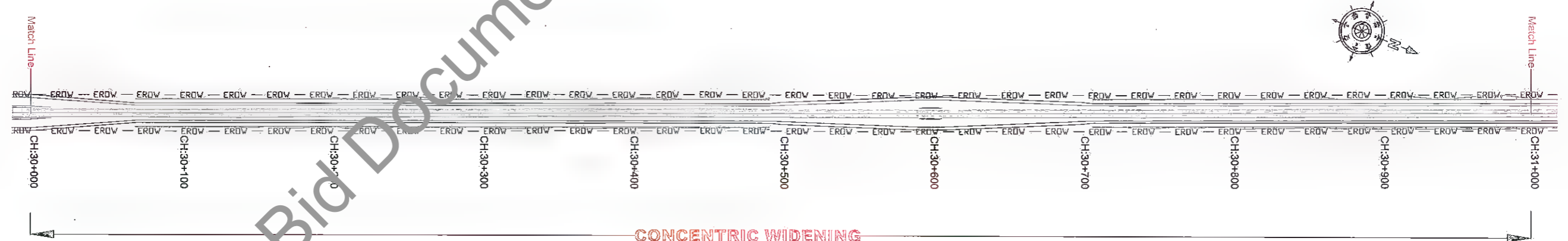
BETTIAH

MARKATIYAGANJ

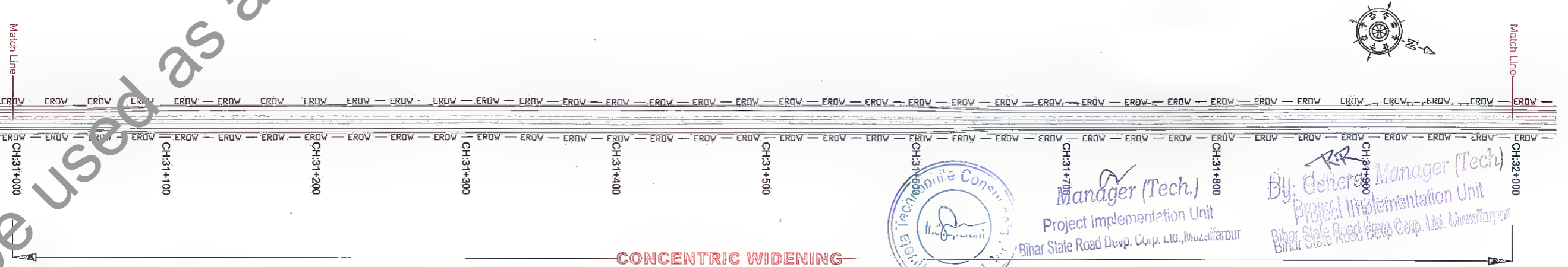
102



CONCENTRIC WIDENING



CONCENTRIC WIDENING




CONCENTRIC WIDENING



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

By: General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

R3	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R5	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:
 **BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)**

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

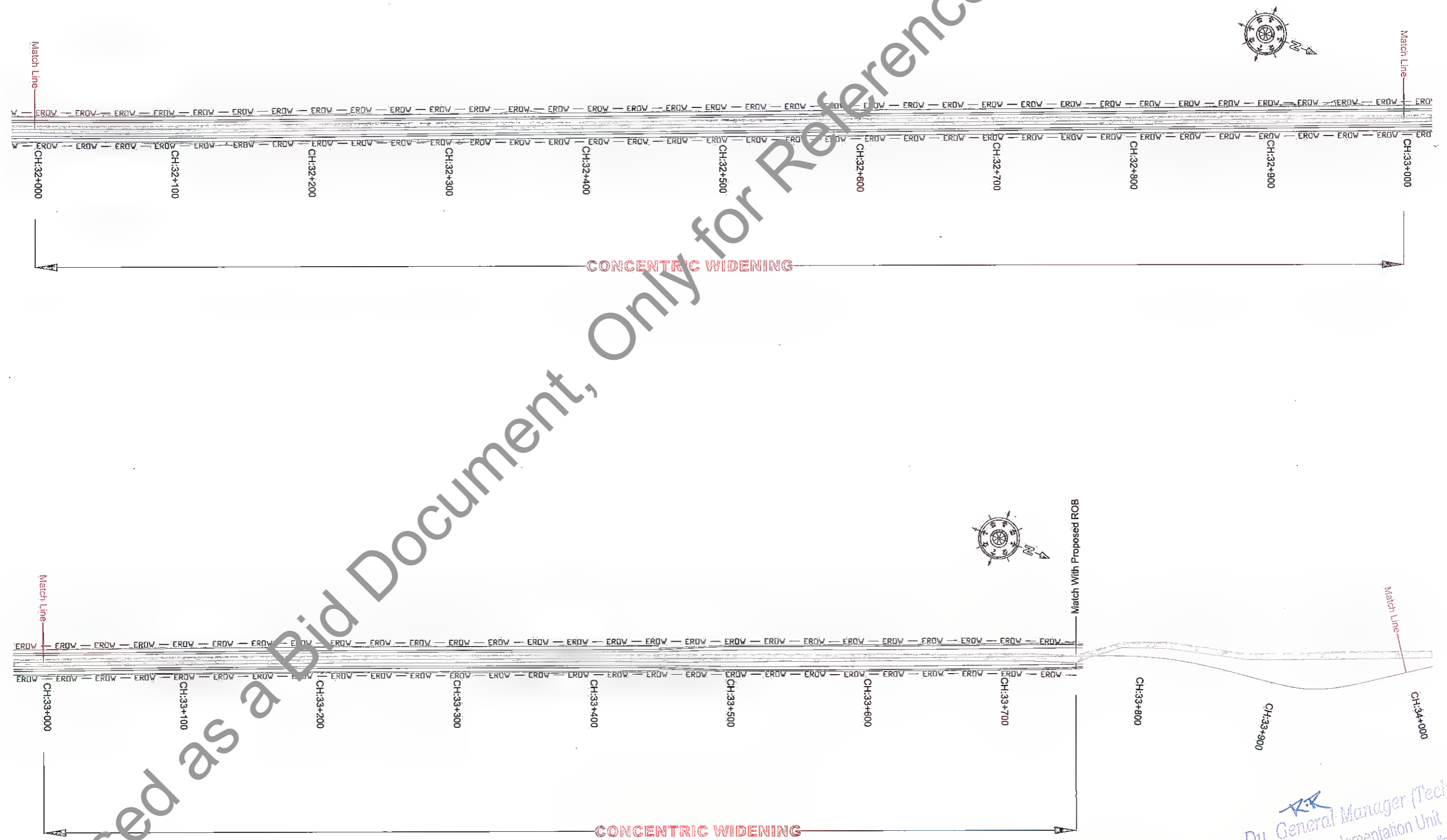
DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY	ASHISH SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	

TITLE:
**STRIP PLAN
CH 29+000 to 32+000**

DRAWING NO.
STC/BR/BSRDC/BNB/SP/11


A3



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUNE 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

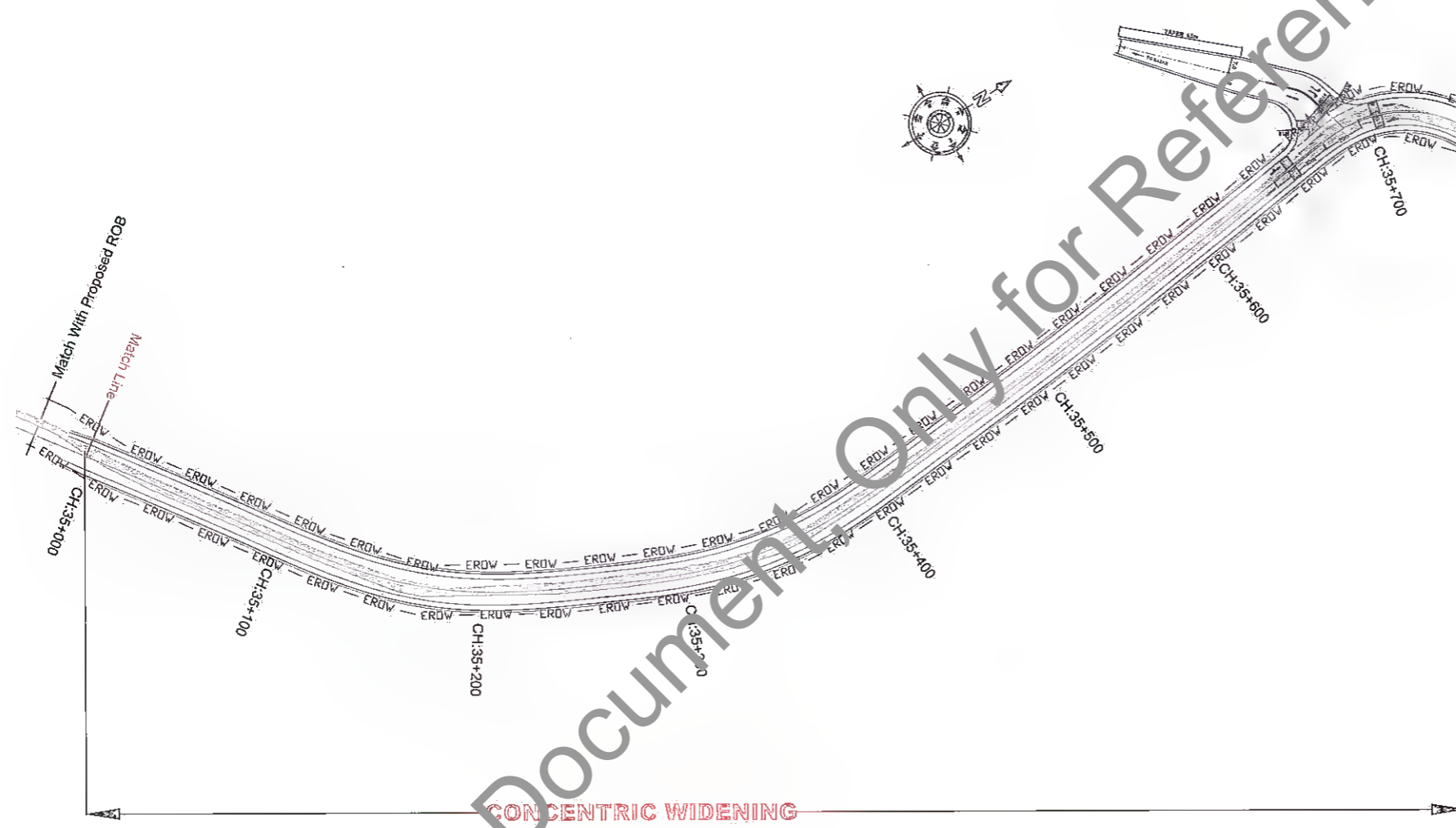
DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indirapuram,
Ghaziabad-201014

DRAWN BY	ASHISH SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	

TITLE:
STRIP PLAN
CH 32+000 to 34+000

DRAWING NO:
STC/BR/BSRDC/BNB/SP/12

A3




Not to be used as a Bid Document Only for Reference

K.R.
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

A.
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

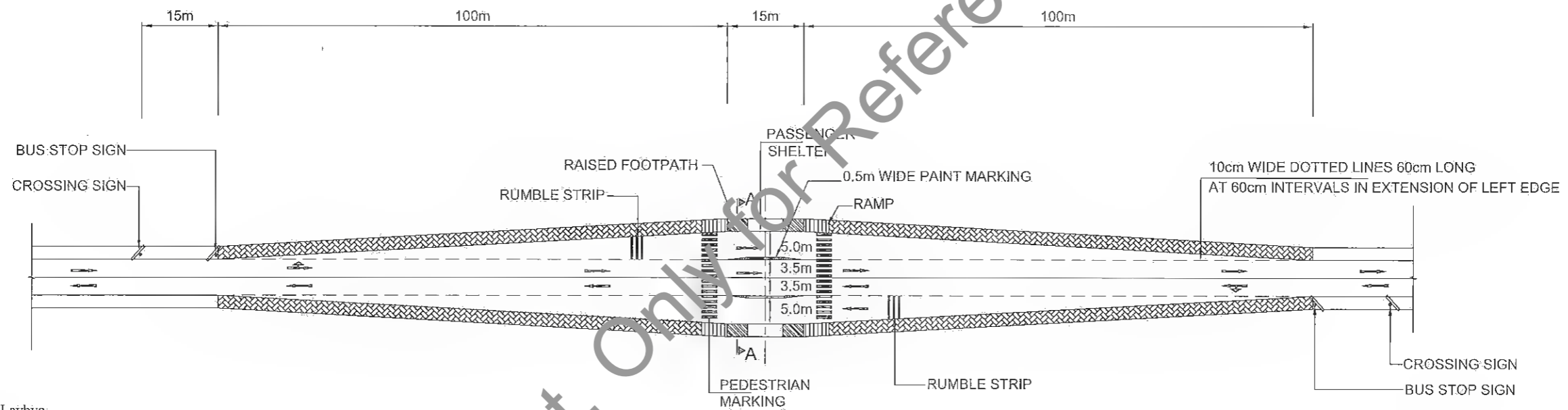


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REV.	DATE	DESCRIPTION OF REVISIONS																											
R5	JULY 2021	MODIFIED DPR																											
R4	JULY 2019	DETAILED PROJECT REPORT																											
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R2	OCTOBER 2018	FINAL DPR																											
DRAWN BY	ASHISH SINGH																												
DESIGN BY	JITENDER KUMAR																												
CHECKED BY	GEETA JINDAL																												
HORIZONTAL SCALE 1:2000																													

Not to be used as a Bid Document, Only for Reference

MISCELLANEOUS DRAWINGS

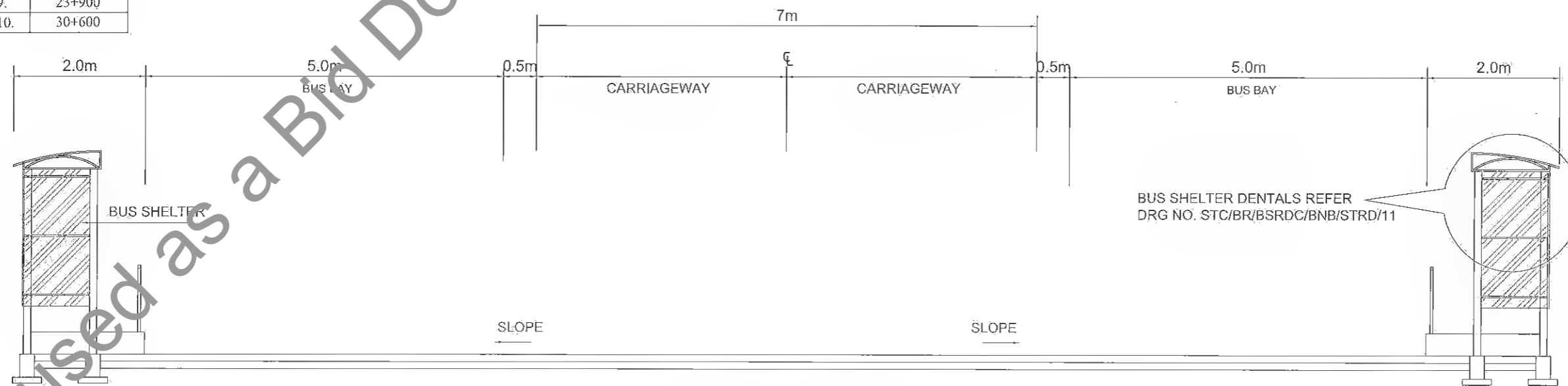




Location of Bus Laybye:

Sl.	Chainage
1.	2+320
2.	4+700
3.	6+300
4.	7+320
5.	9+280
6.	11+700
7.	18+400
8.	20+100
9.	23+900
10.	30+600

LAYOUT OF BUS LAYBYE FOR TWO LANE



SECTION THROUGH ROAD 'A A'

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC. 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

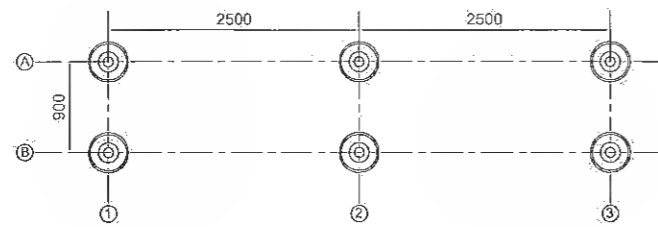
CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road)

DPR CONSULTANTS: S7C Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

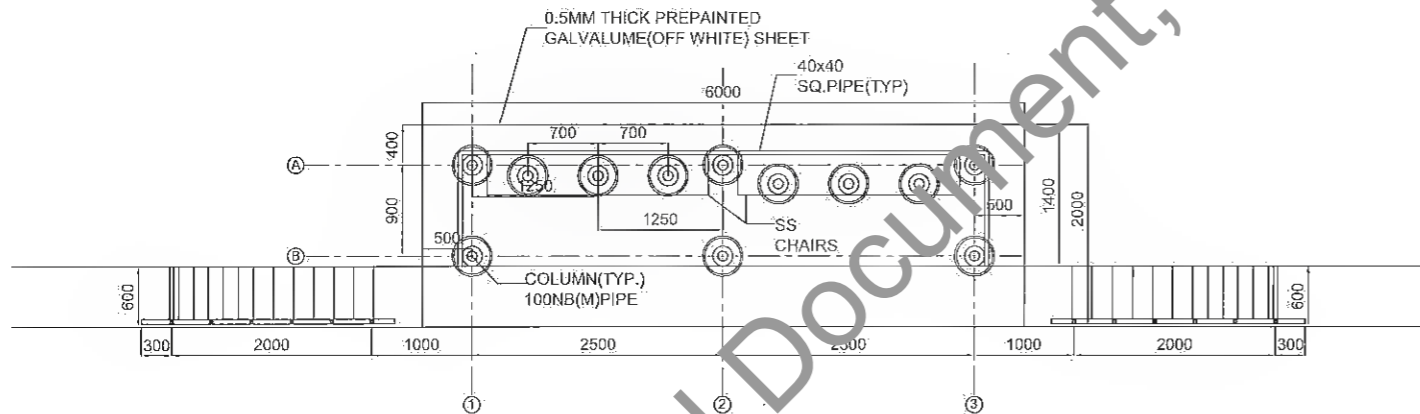
DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
SCALE	N.T.S.

TITLE: TYPICAL DETAILS OF BUS LAYBYE FOR 2-LANE
DRAWING NO. STC/BR/BSRDC/BNB/STRD/10

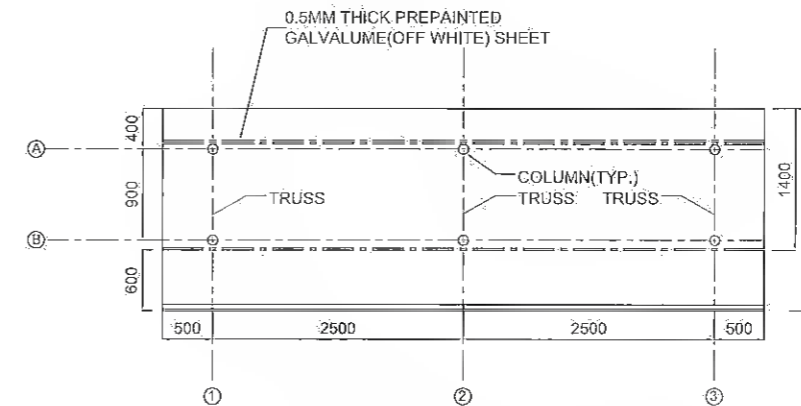


MARKING PLAN

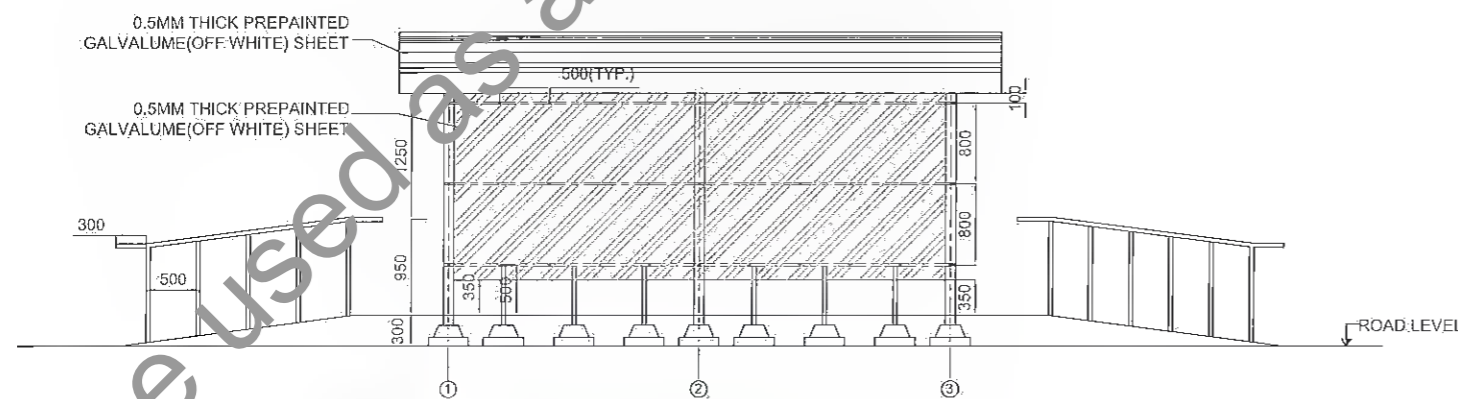
GENERAL SPECIFICATION	
FLOORING	TILE WITH 1:6 CEMENT MORTAR
PAINTING OF STEEL WORKS	2 COATS OF SYNTHETIC ENAMEL PAINT OVER ONE COAT OF PRIMER
ROOFING	0.5MM THICK PREPAINTED GALVALUME (OFF WHITE) SHEET
CLADDING	0.5MM THICK PREPAINTED GALVALUME (OFF WHITE) SHEET



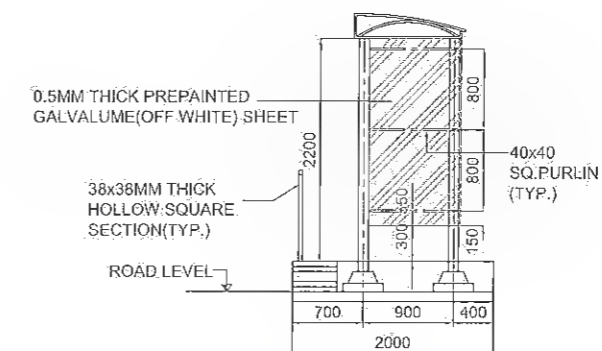
PLAN AT +0.000 ROAD TOP LEVEL
(±) 0.000 REFERS TO ROAD LEVEL



PLAN AT +3.10m LEVEL
(±) 0.000 REFERS TO ROAD LEVEL



FRONT ELEVATION



SIDE ELEVATION

REV.	DATE	DESCRIPTION OF REVISIONS
R5	MAY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.

DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
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 Ghaziabad-201014

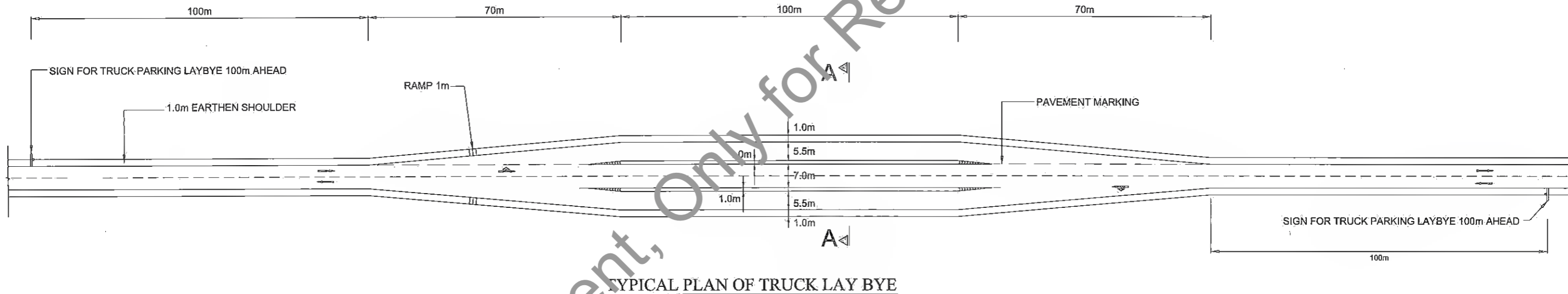
DRAWN BY: ASHISH RAWAT
 DESIGN BY: JITENDER KUMAR
 CHECKED BY: GEETA JINDAL

TITLE:
TYPICAL DETAILS OF BUS SHELTER.
 DRAWING NO.
 STC/BR/BSRDC/BNB/ STRD/11

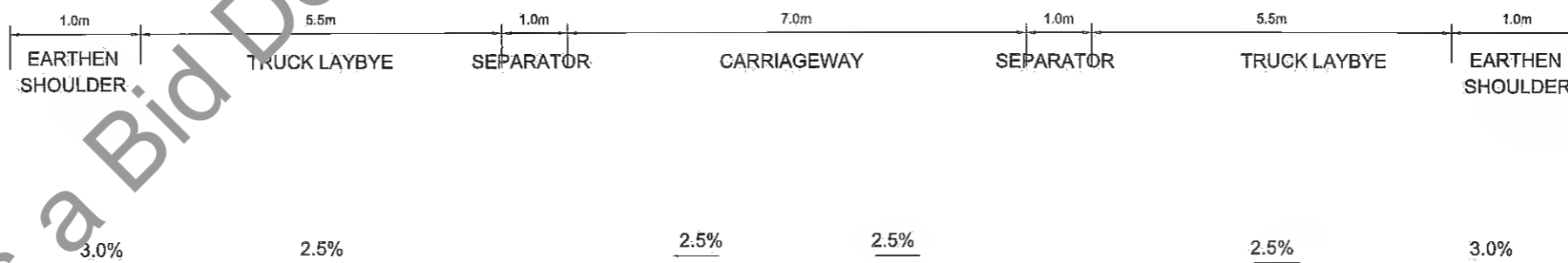
SCALE - NTS

A3

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TYPICAL PLAN OF TRUCK LAY BYE



SECTION A-A

Location of Truck Laybye


Sl.	Chainage
1.	29+950



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

R. Roy
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
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R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

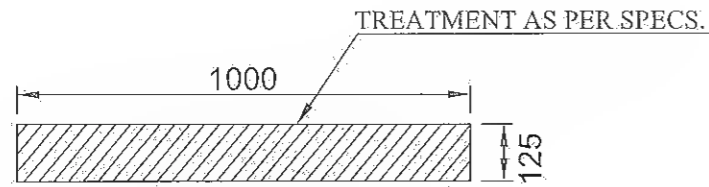
PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

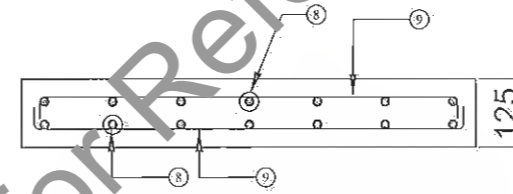
DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
SCALE	N.T.S.

TITLE:
TYPICAL PLAN OF TRUCK LAY BYE

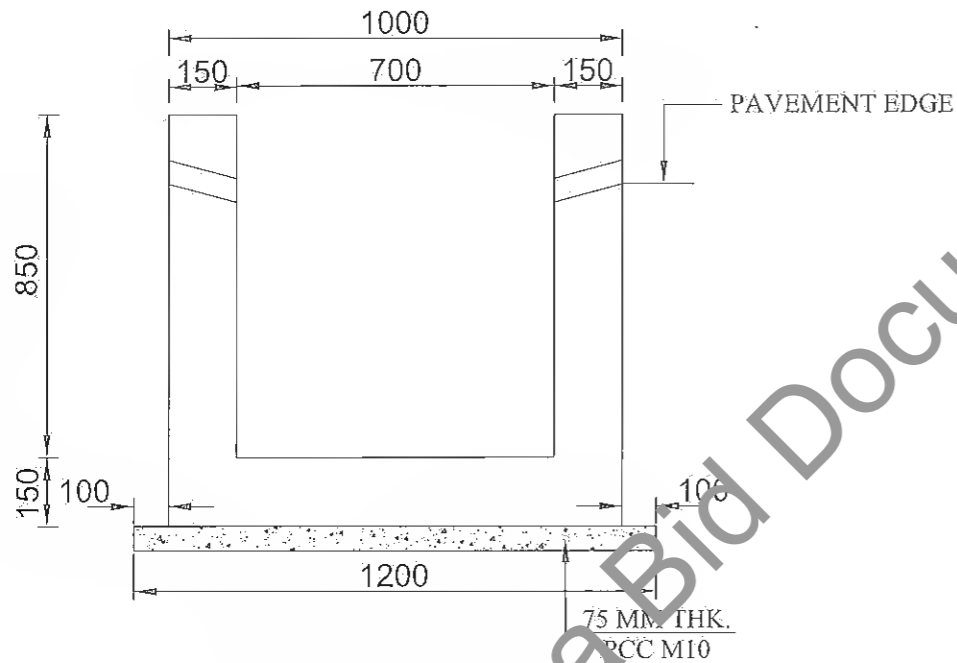
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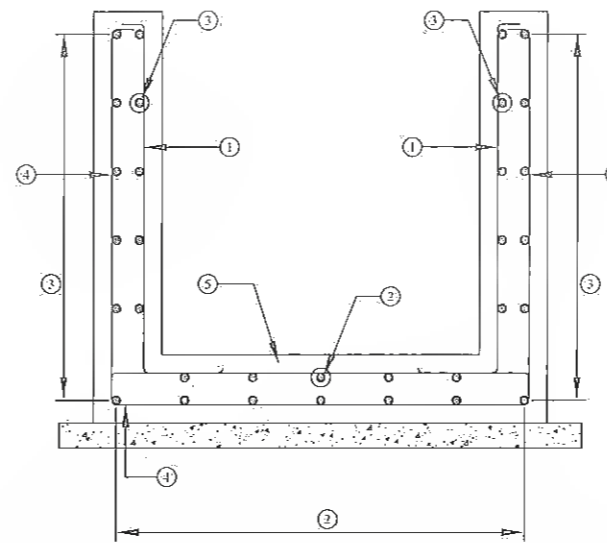
COVER SLAB
SCALE 1:25



COVER SLAB DETAIL FOR OPEN DRAIN
SCALE 1:25



SECTION OF DRAIN
SCALE 1:25



REINFORCEMENT DETAIL OF DRAIN
SCALE 1:25

REINFORCEMENT DETAIL FOR DRAIN			
BAR MKD	SHAPE	BAR DIA	SPACING/NOS.
1		12	150 C/C
2		12	150 C/C
3		12	150 C/C
4		12	150 C/C
5		12	150 C/C
6	NO BAR		NO BAR
7		12	150 C/C
8		12	150 C/C
9		12	150 C/C

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.

DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
 222-223, 313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY: ARJUN SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

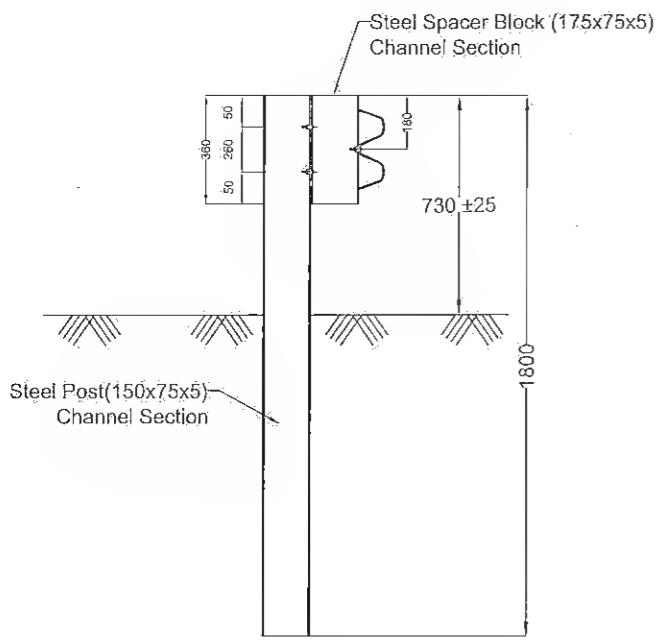
TITLE:
 DETAILS OF RCC DRAIN

DRAWING NO.
 STC/BR/BSRDC/BNB/STRD/09

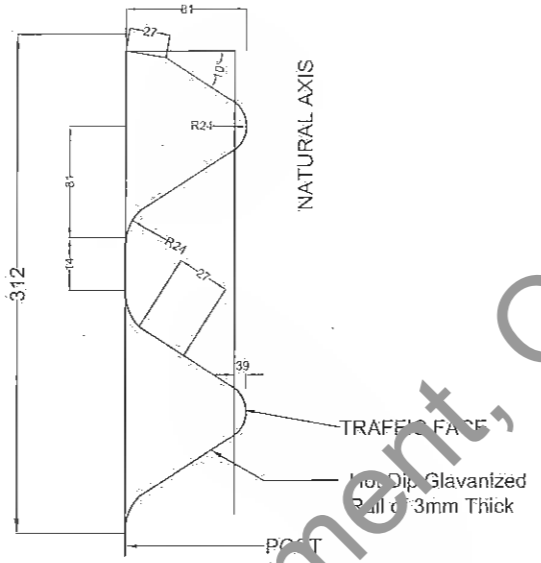
SCALE- NTS

A3

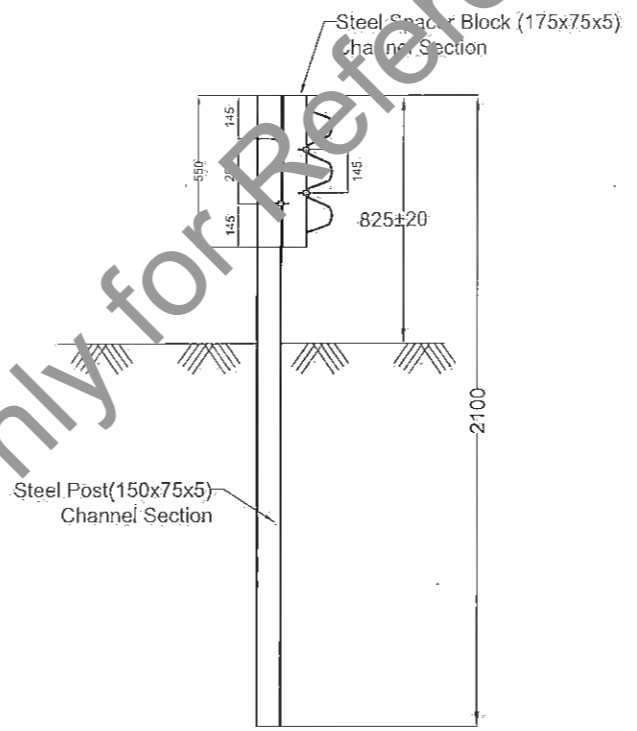
Not to be used as a Bid Document, Only for Reference



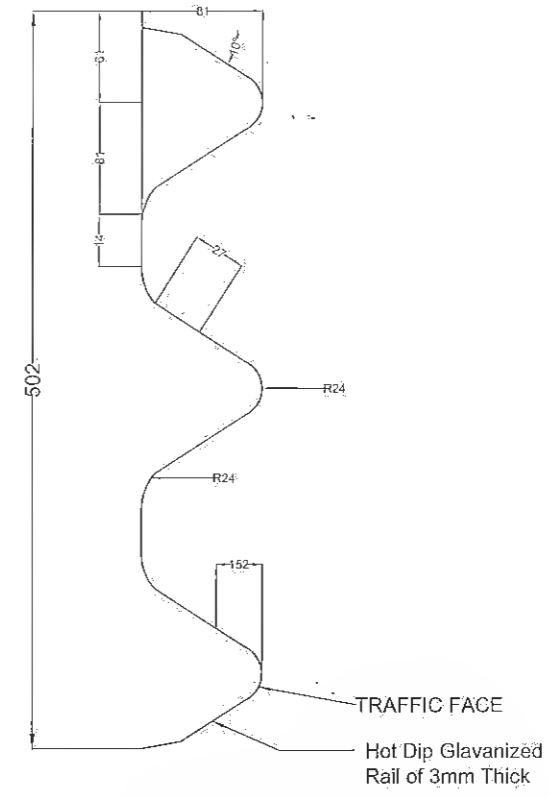
DETAIL OF SINGLE BEAM CRASH BARRIER



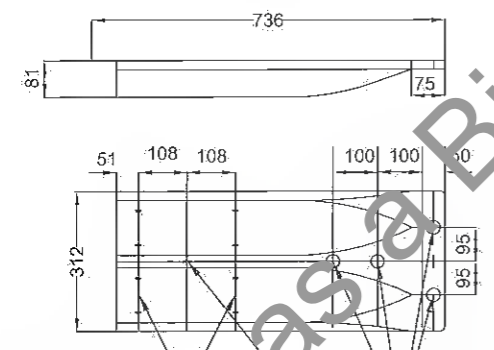
SECTION THROUGH BEAM RAIL ELEMENT



DETAIL OF THREE BEAM CRASH BARRIER



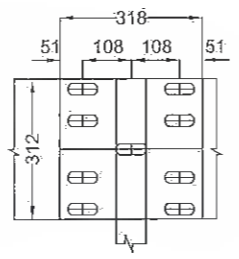
SECTION THROUGH THREE BEAM RAIL ELEMENT



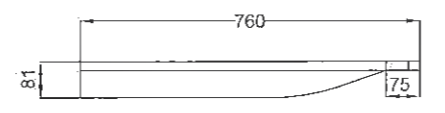
25x290 slotted holes for splice bolt
25Ø Holes
19x64 slotted holes (optional)

W BEAM TERMINAL CONNECTOR

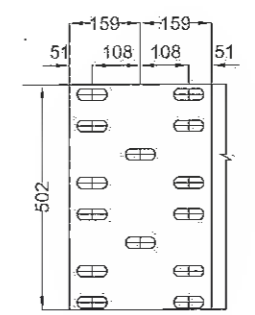
BEAM ARE OVERLOAD AT EACH SPLICE BY 318mm AND CONNECTED TOGETHER BY 8 BUTTON HEAD 16mmØ BOLTS.
BEAM ARE CONNECTED TO SPACER BLOCK BY ONE BUTTON HEAD 16mmØ BOLT.



RAIL SPLICE




THREE BEAM TERMINAL CONNECTOR



RAIL SPLICE

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JUN 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:  BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

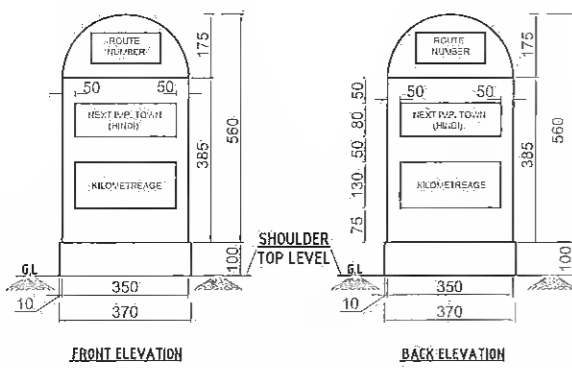
PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.

DPR CONSULTANTS: **S70** Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

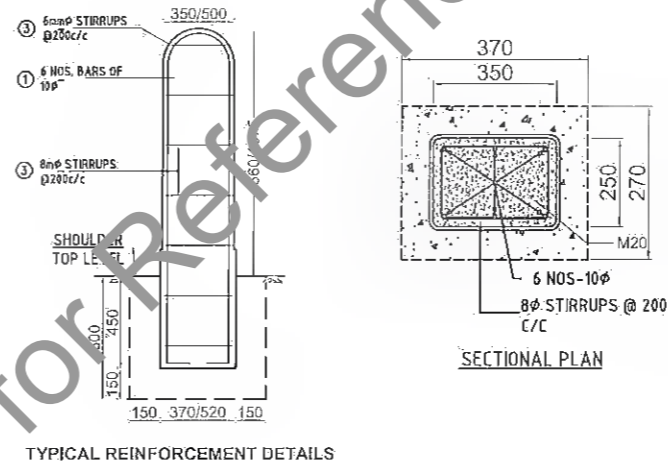
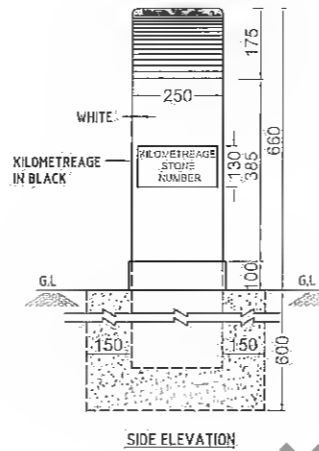
DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL
SCALE - NTS

TITLE: TYPICAL DETAIL OF METAL CRASH BARRIER
DRAWING NO: STC/BR/BSRDC/BNB/STRD/01
A3

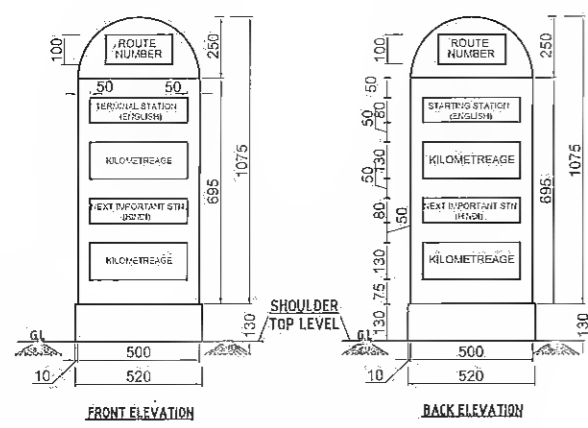
K. Kumar
15-12-21



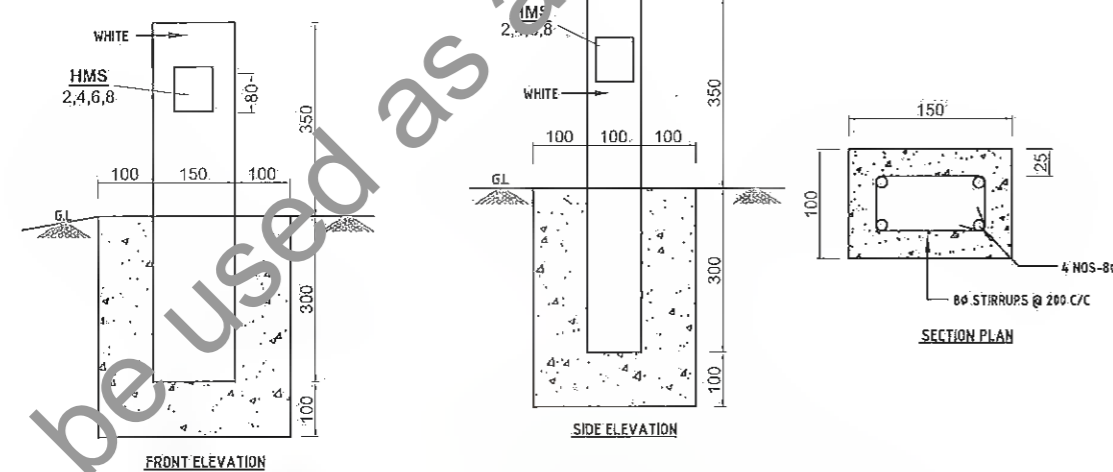
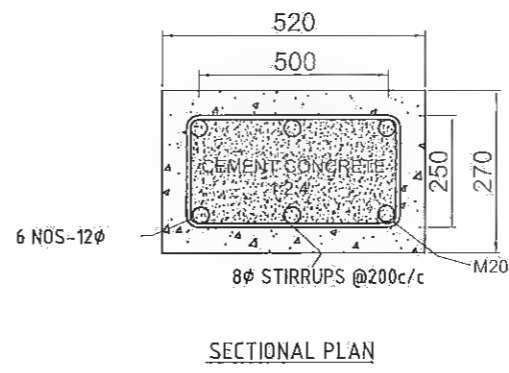
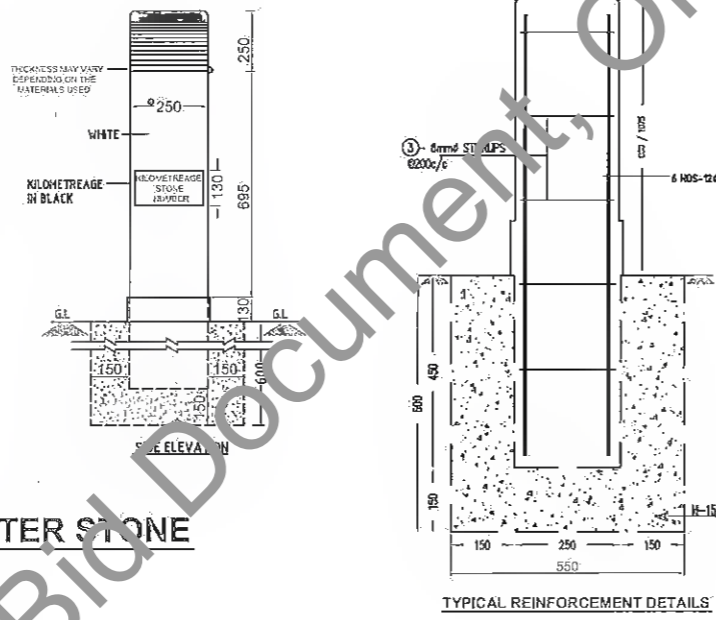
TYPICAL DESIGN FOR KILOMETER STONE



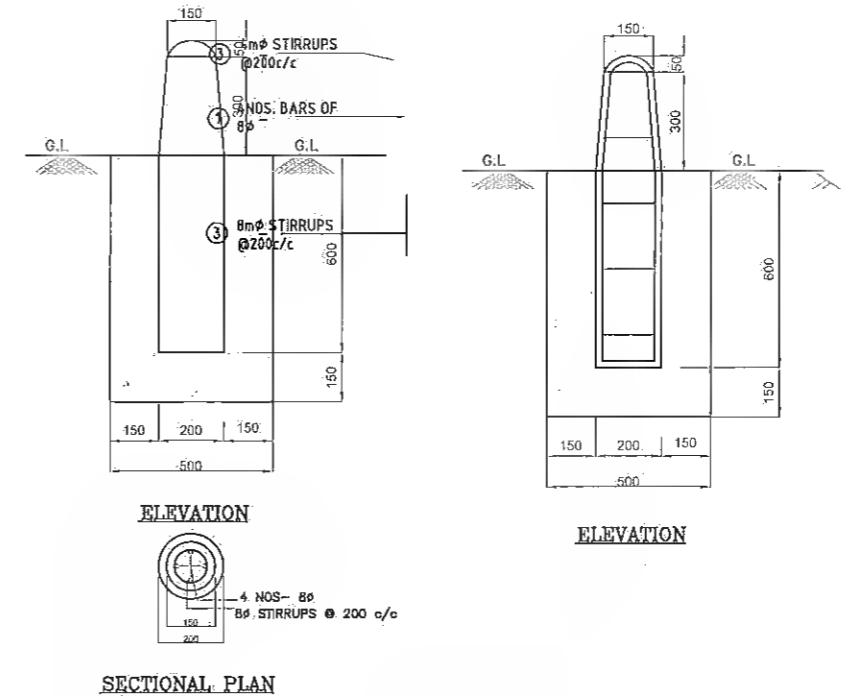
- NOTES:-
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
 2. SHAPE, SIZE, SPACING OF LETTERS AND NUMERALS ARE AS PER IRC:8-1980 & MORTH CIRCULAR NO. RW/NH-33044/27/2004-S&R(R), DATED 24th DECEMBER 2004.
 3. THE BACKGROUND COLOUR SHALL BE WHITE WITH BLACK LETTERS AND NUMERALS FOR NAMES OF STATIONS AND DISTANCES; THE SEMI-CIRCULAR PORTION OF KILOMETER STONES SHALL BE PAINTED CANARY YELLOW (I.S. SHADE 309). ROUTE NUMBERS WRITTEN ON THE SEMI-CIRCULAR PORTION SHALL BE IN BLACK COLOUR ON CANARY YELLOW.
 4. CLEAR COVER FOR REINFORCEMENT STEEL SHALL BE 25MM.
 5. GRADE OF CONCRETE FOR STONE SHALL BE M-20.
 6. GRADE OF CONCRETE FOR FOUNDATION BLOCK SHALL BE M-15.
 7. GRADE OF STEEL SHALL BE FE 415.



TYPICAL DESIGN FOR 5th METER STONE

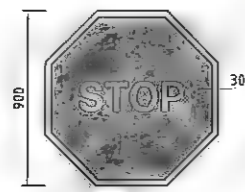


HECTOMETRE STONE

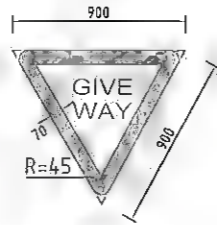


BOUNDARY STONE

REV.	DATE	DESCRIPTION OF REVISIONS	CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.	DPR CONSULTANTS: S70 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014	DRAWN BY ASHISH RAWAT	TITLE: TYPICAL DETAILS OF KM STONE, 5TH KM STONE, HECTOMETRE STONE AND BOUNDARY STONE
						DESIGN BY JITENDER KUMAR	DRAWING NO. STC/BR/BSRDC/BNB/STRD/02
						CHECKED BY GEEFA JINDAL	SCALE - NTS
							A3



STOP SIGN



GIVE WAY SIGN



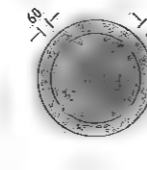
OVERTAKING PROHIBITED



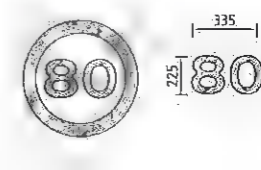
HORN PROHIBITED



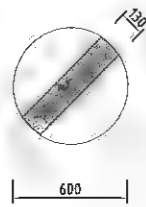
NO PARKING



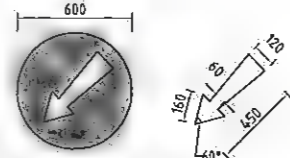
NO STOPPING OR STANDING



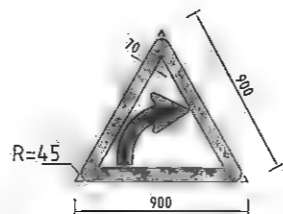
SPEED LIMIT



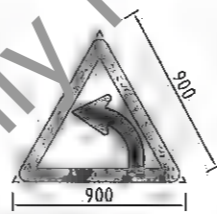
RESTRICTION ENDS SIGN



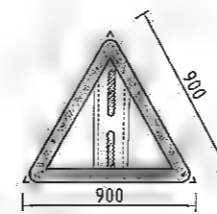
COMPULSORY KEEP LEFT



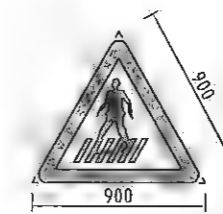
RIGHT HAND CURVE



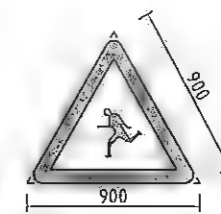
LEFT HAND CURVE



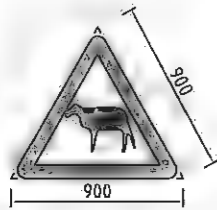
GAP IN MEDIAN



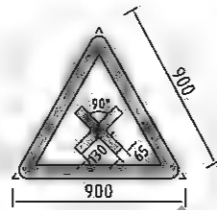
PEDESTRIAN CROSSING



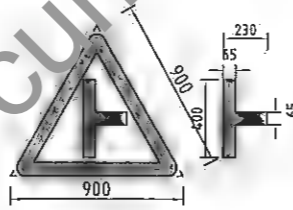
SCHOOL



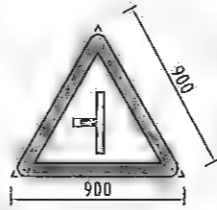
CATTLE



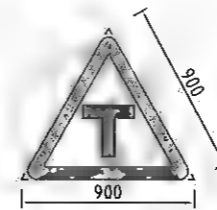
CROSS ROAD



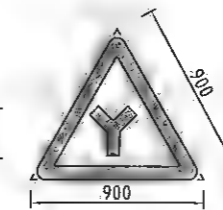
SIDE ROAD RIGHT



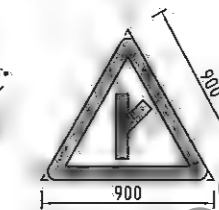
SIDE ROAD LEFT



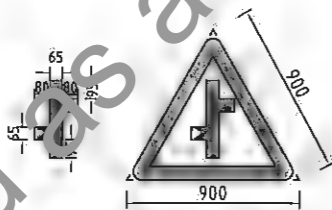
T-INTERSECTION



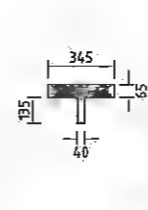
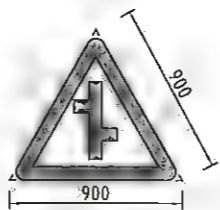
Y-INTERSECTION



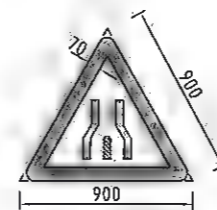
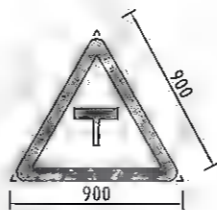
Y-INTERSECTION



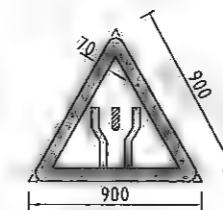
STAGGERED INTERSECTIONS



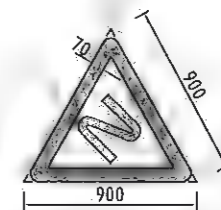
MAJOR ROAD AHEAD



END OF DUAL CARRIAGEWAY



START OF DUAL CARRIAGEWAY



SERIES OF BENDS

REV	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	MODIFIED DPR
R2	AUG 2019	DETAILED PROJECT REPORT
R3	DEC 2019	CLIENT SUGGESTION INCORPORATED
R4	OCTOBER 2018	FINAL DPR

CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.

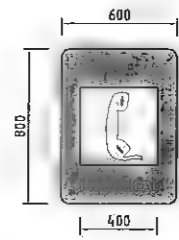
DPR CONSULTANTS: **S70** Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

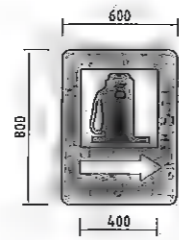
TITLE: ROAD TRAFFIC SIGNS
DRAWING NO. STC/BR/BSRDC/BNB/STRD/03

SCALE - NTS

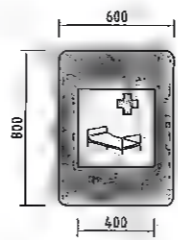
A3



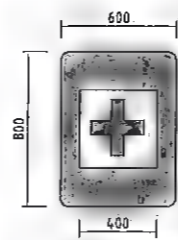
PUBLIC TELEPHONE



FILLING STATION



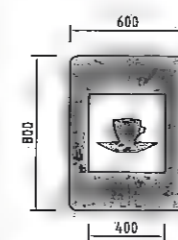
HOSPITAL



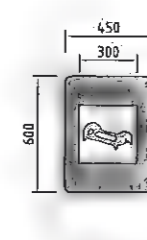
FIRST AID



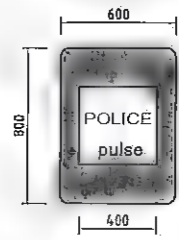
EATING PLACE



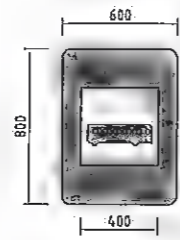
LIGHT REFRESHMENT



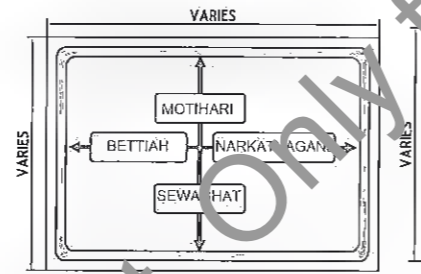
RESTING PLACE



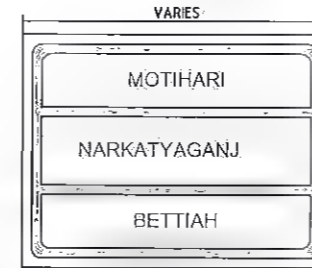
POLICE STATION



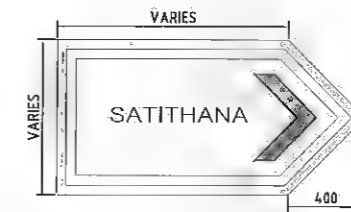
BUS STOP



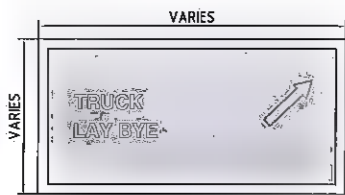
ADVANCE DIRECTION



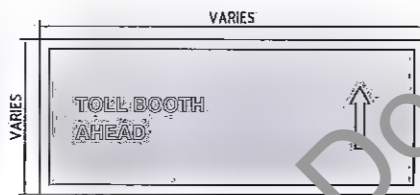
DESTINATION SIGN



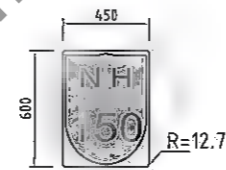
DIRECTION SIGN



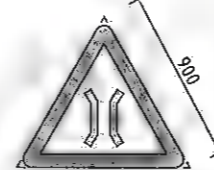
TRUCK LAY BY



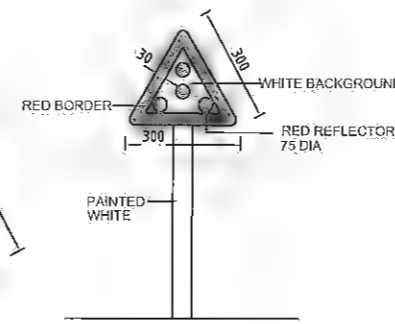
TOLL BOOTH AHEAD



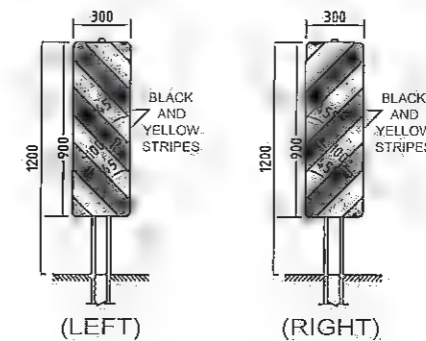
NH ROUTE MARKER SIGN



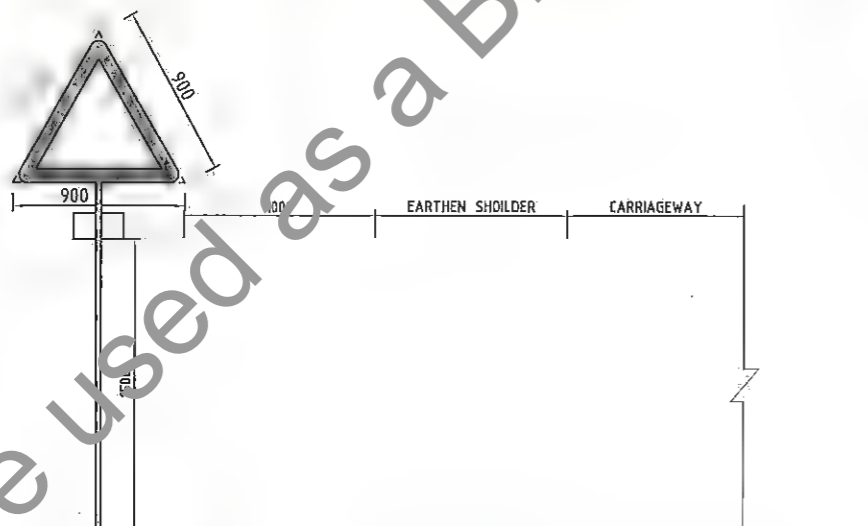
NARROW BRIDGE



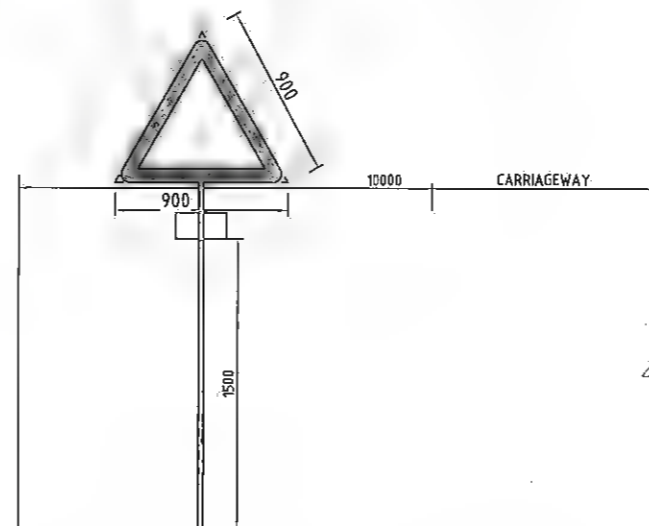
CLUSTER OF RED REFLECTORS



HAZARD MARKERS



MINIMUM CLEARANCE OF SIGNS IN UNKERBED SECTIONS



MINIMUM CLEARANCE OF SIGNS IN KERBED SECTIONS

REV	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2018	MODIFIED DPR
R4	MAY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:	BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)
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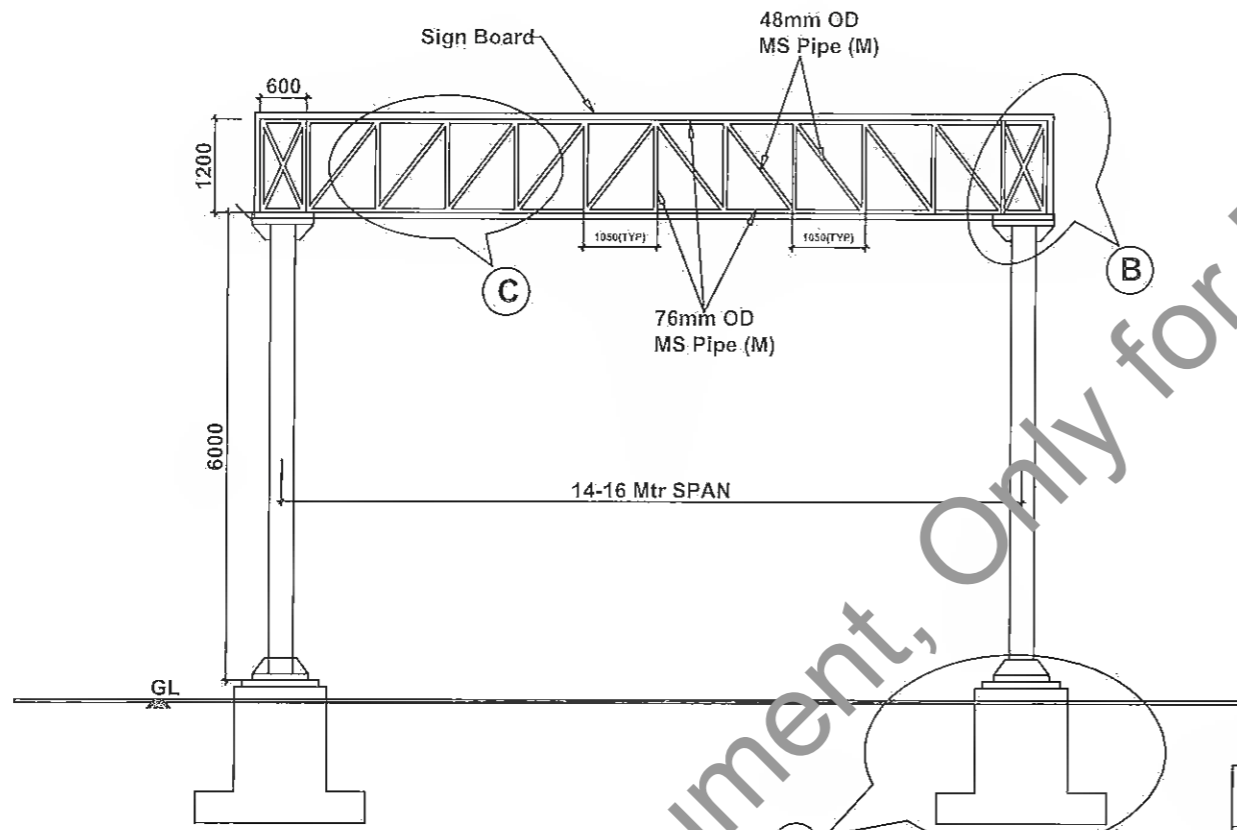
PROJECT:	Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiaganj Road) in the state of Bihar.
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DPR CONSULTANTS:	S7C Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014.
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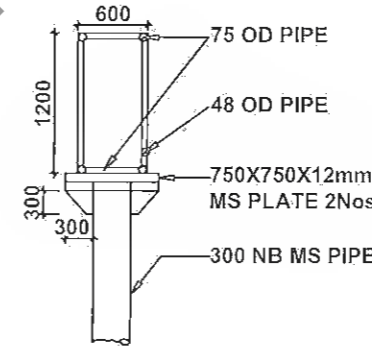
DRAWN BY:	ASHISH RAWAT
DESIGN BY:	JITENDER KUMAR
CHECKED BY:	GEETA JINDAL

TITLE:	ROAD TRAFFIC SIGNS
DRAWING NO.	STC/BR/BSRDC/BNB/STRD/01

SCALE - NTS



ELEVATION

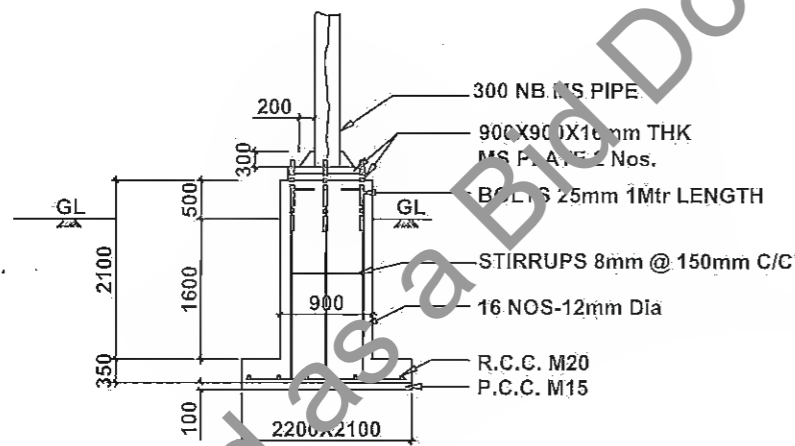


VIEW - (X)X

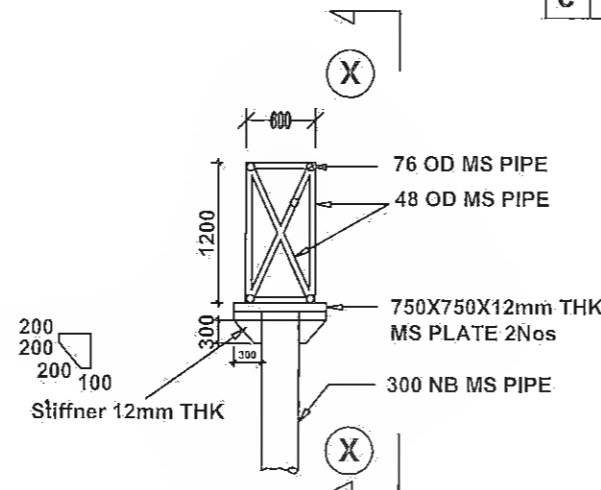
NOTE:

1. All dimensions are in Millimeter unless otherwise specified.

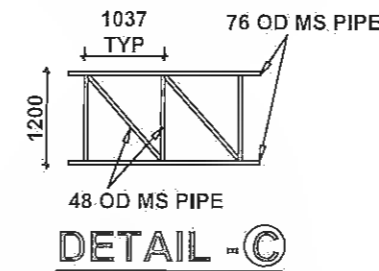
a	323.9 mm Ø 8mm THK Pipe
b	76.1 mm Ø 4.5mm THK Pipe
c	48.3 mm Ø 8mm THK Pipe



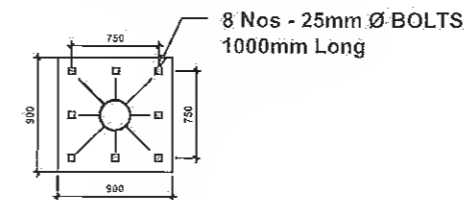
DETAIL - (A)



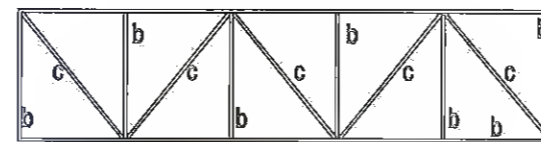
DETAIL - (B)



DETAIL - (C)



DETAIL OF BEARING PLATE & BOLTS



TOP & BOTTOM CHORD

R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Betihah - Narkatiyaganj Road) in the state of Bihar.

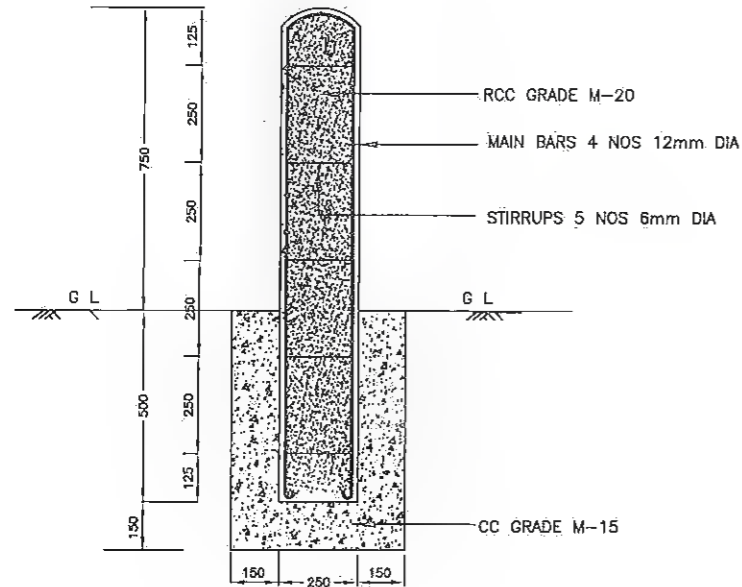
DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

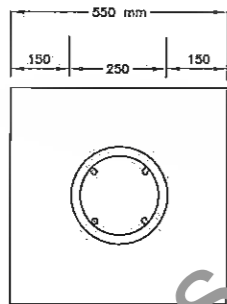
TITLE: GANTRY SIGN BOARD (14-16m SPAN)

SCALE - NTS

DRAWING NO. STC/BR/BSRDC/BNB/STRD/05



SECTION AA



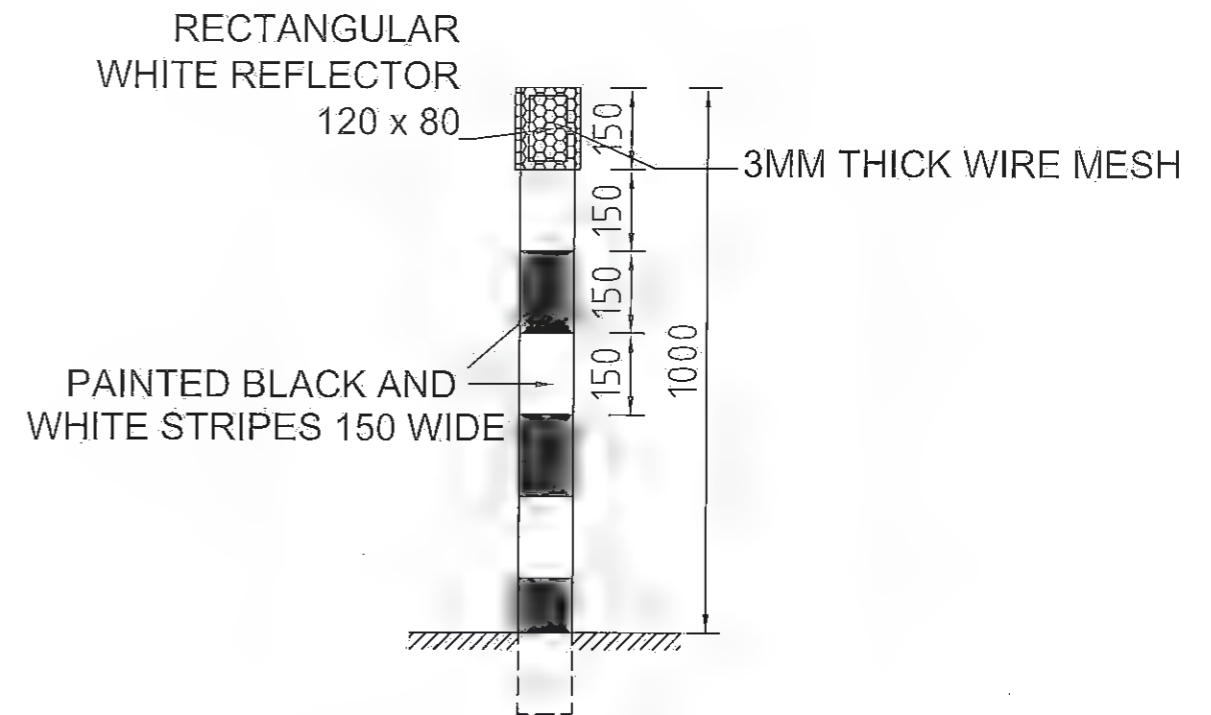
PLAN

DETAILS OF RCC GUARD POST

BAR BENDING SCHEDULE						
S.NO.	TYPE	M.S. BAR	NO OF BARS	SHAPE OF BARS	DIA IN mm	LENGTH OF ONE BAR INCLUDING HOOKS
1.	MAIN BARS		4	⊖	12mm	1840mm
2.	TOP MOST STIRRUP		1	⊗	6mm	370mm
3.	STIRRUP (FIRST FROM TOP)		1	⊗	6mm	405mm
4.	STIRRUP (SECOND FROM TOP)		1	⊗	6mm	440mm
5.	STIRRUP (THIRD FROM TOP)		1	⊗	6mm	475mm
6.	BOTTOM MOST STIRRUP		1	⊗	6mm	810mm

NOTES:-

- ALL DIMENSIONS ARE IN mm EXCEPT WHERE OTHERWISE MENTIONED
- REINFORCEMENT - MILD STEEL BARS CONFORMING TO I.S.432/1966 GRADE I TESTED STEEL
- CONCRETE MIX -
RCC : GRADE M-20
CC : GRADE M-15
- GUARD POSTS ARE TO BE PROVIDED WHEN HEIGHT OF EMBANKMENT IS MORE THAN 3.0M
- FOR FURTHER DETAILS REFER IRC CODE:25-1987



DELINEATOR WITH RECTANGULAR REFLECTOR

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

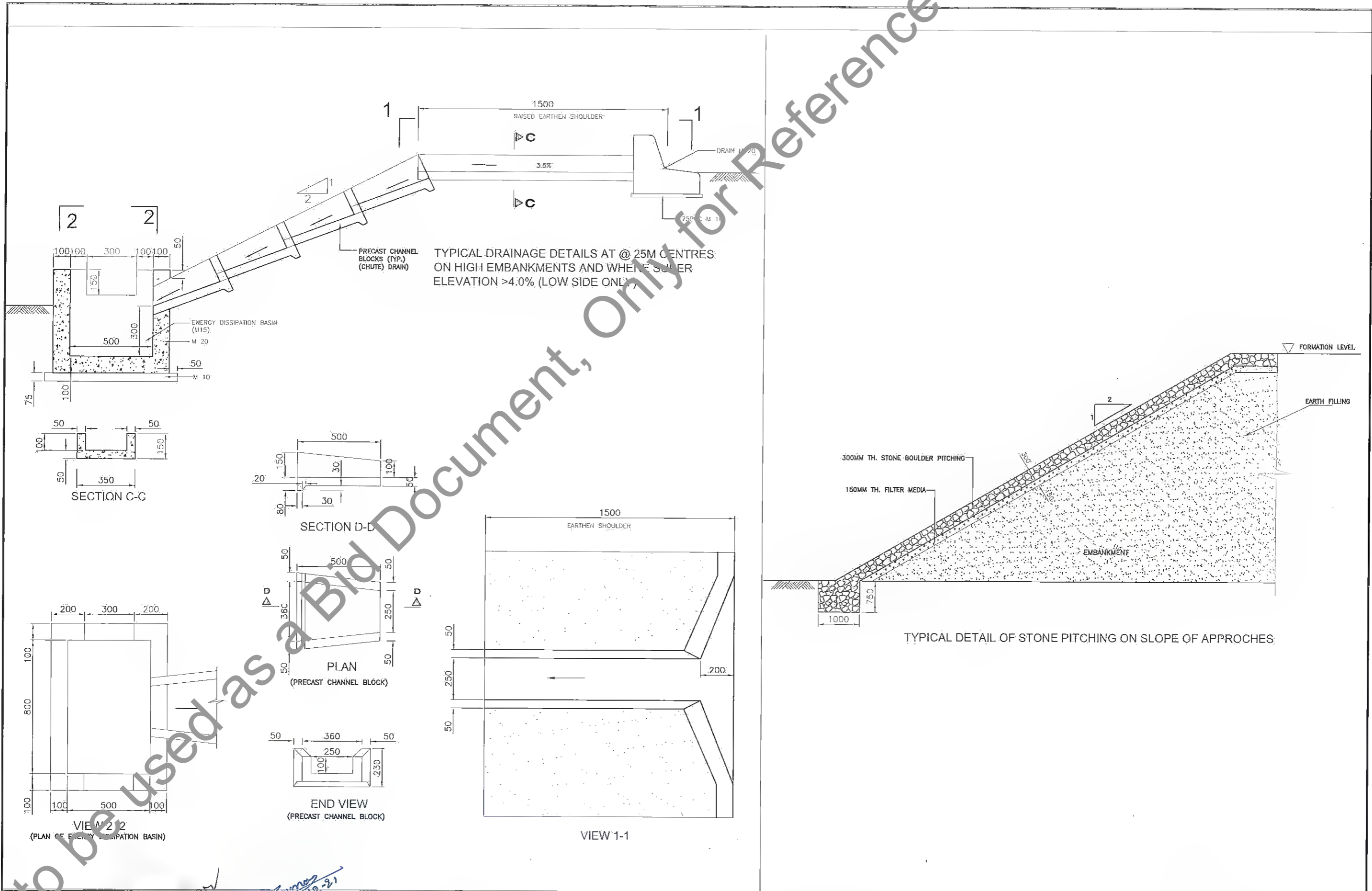
CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.


DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd., 222-223, 313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE: TYPICAL DETAILS GUAD POST & DELINANEATOR
DRAWING NO. STC/BR/BSRDC/BNB/STRD/16
SCALE: NTS



R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar.

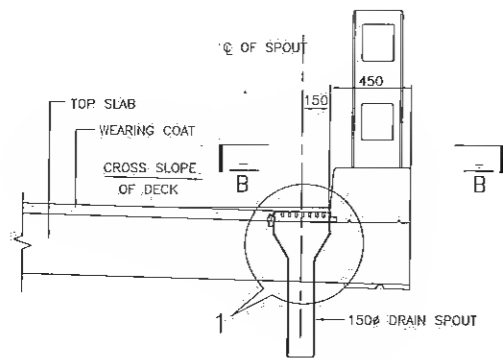
DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL

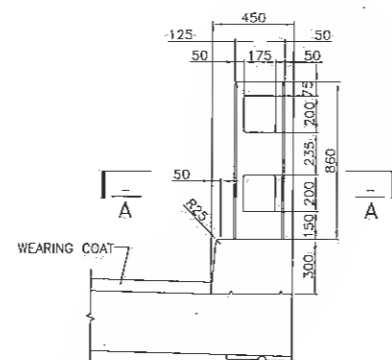
TITLE:
HIGH EMBANKMENT PROTECTION AND DRAINAGE DETAILS (CHUTE DRAIN)

DRAWING NO.
 STC/BR/BSRDC/BNB/STRO/ 07

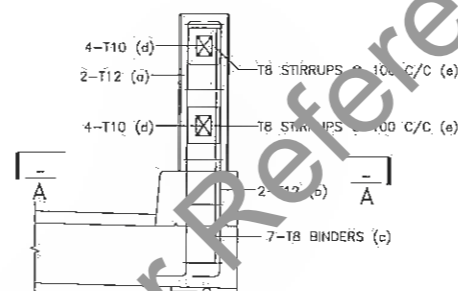
SCALE - NTS



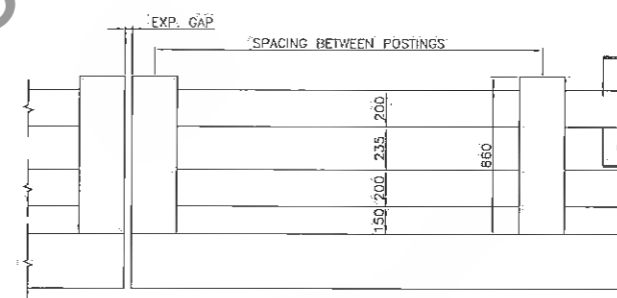
DETAILS OF DRAINAGE SPOUT
SCALE 1:40



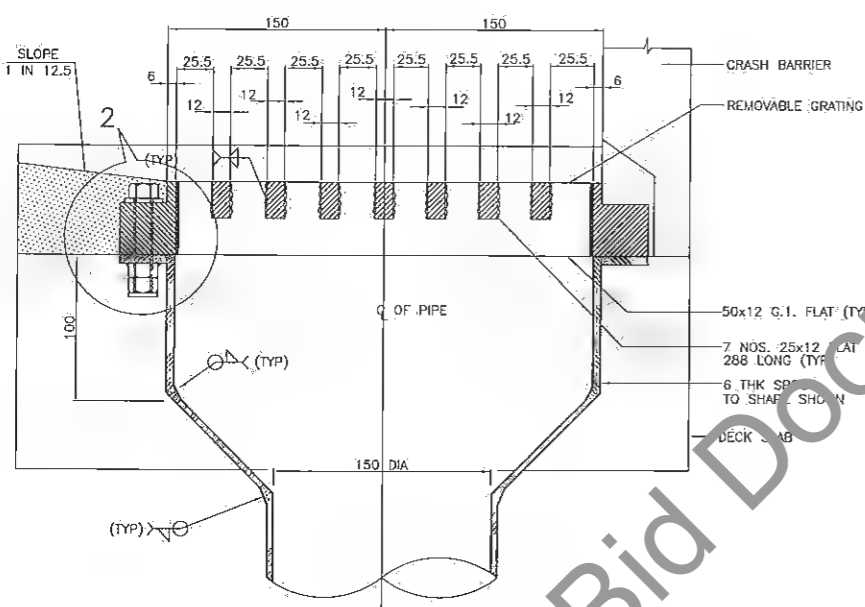
NUMERATION DETAILS OF RAILING
SCALE 1:40



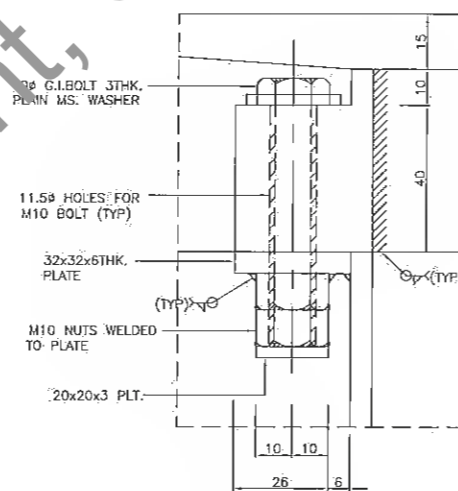
RC DETAILS OF RAILING ON DECK SLAB
SCALE 1:40



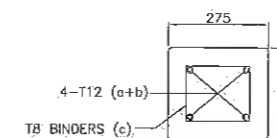
ELEVATION OF RAILING
SCALE 1:40



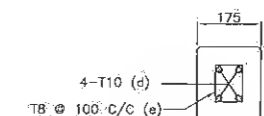
DETAIL-1
SCALE 1:5



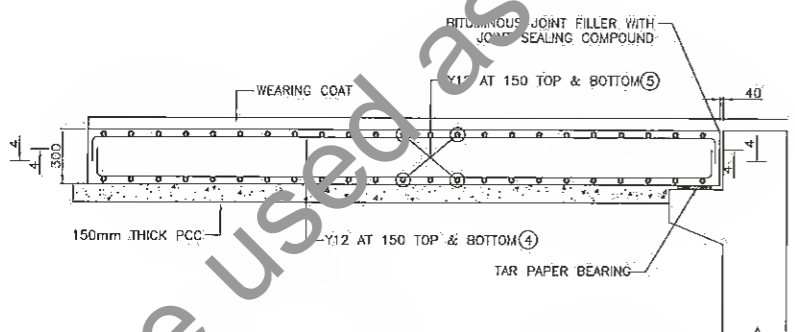
DETAIL-2
SCALE 1:2



SECTION A-A
SCALE 1:20



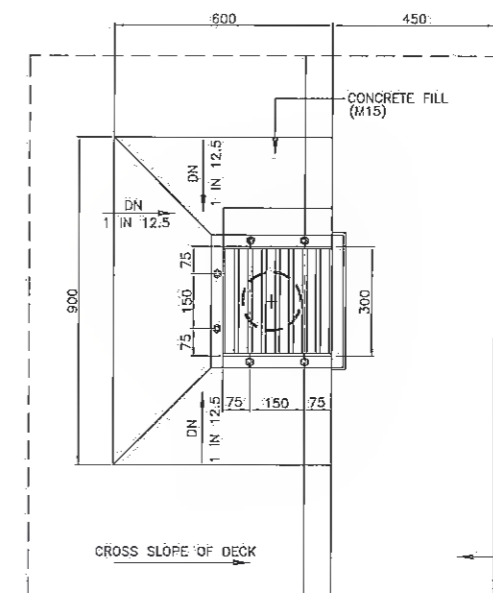
SECTION C-C
SCALE 1:20



RC DETAILS OF APPROACH SLAB
SCALE 1:40

NOTES:

1. ALL DIMENSIONS ARE IN MM. LEVELS & CHAINAGES ARE IN METERS.
2. DETAILS SHOWN ARE ONLY INDICATIVE ACTUAL DETAILS SHALL BE AS PER MANUFACTURER.
3. WEARING COURSE SHALL BE LAID AS PER MORTH SPECIFICATION.
4. TOP SLAB WILL HAVE ROUGH FINISH TO RECEIVE THE WEARING COURSE. B. FINISHED WEARING COAT WILL HAVE ROUGH FINISH TO AVOID SKIDDING OF VEHICLE.



PLAN B-B
SCALE 1:20

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	DETAILED PROJECT REPORT
R2	DEC 2018	CLIENT SUGGESTION INCORPORATED
R3	AUG 2018	FINAL DDPR
R4	MAY 2018	FINAL FEASIBILITY
R0	MARCH 2018	FEASIBILITY

CLIENT: **BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)**

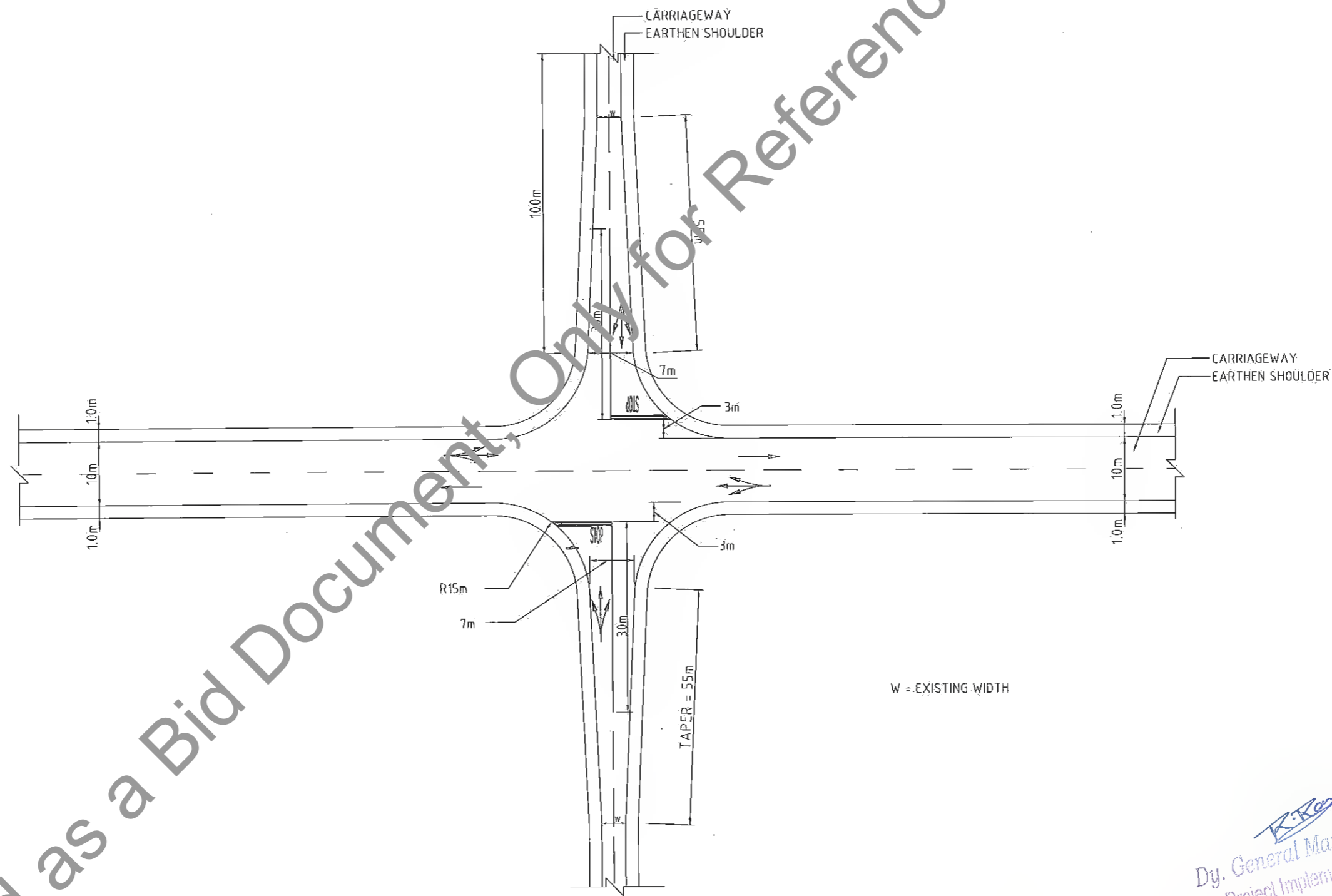
PROJECT: **Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah-Narkatiyaganj Road) in the state of Bihar**

DPR CONSULTANTS: **S7C Shweta Technophile Consultants Pvt. Ltd.**
222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014.

DRAWN BY	ARIUN SINGH
DESIGN BY	M. USMAN
CHECKED BY	AMIT
SCALE:-AS SHOWN	

TITLE: **DETAILS OF RAILING & DRAINAGE SPOUT**

DRAWING NO. **STC/BR/BSRDC/BNB/STRD-08**



R. Rao
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

A
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur



R1	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:
 BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

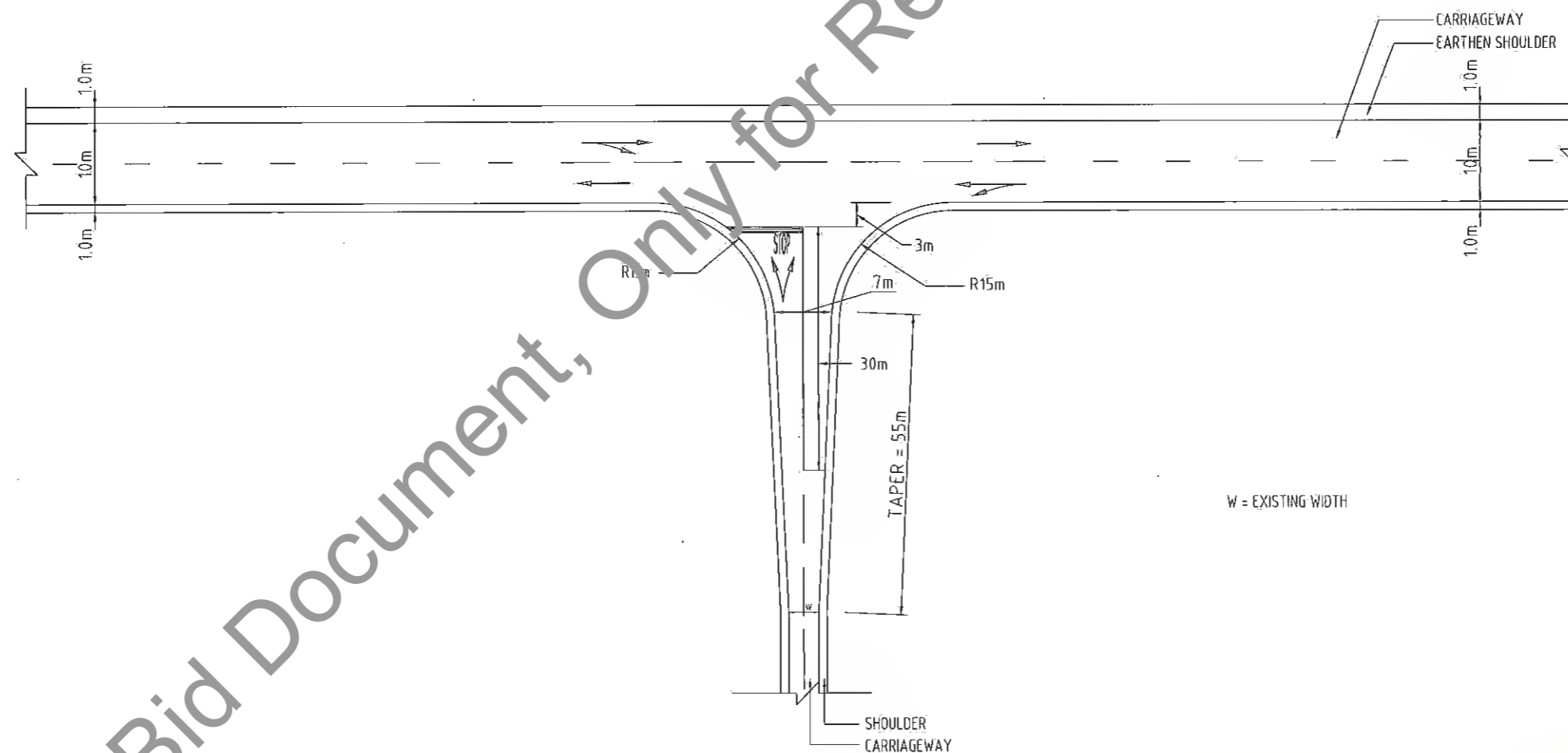
DPR CONSULTANTS:
 S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223, 313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghazalabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
SCALE - NTS	

TITLE:
 MINOR JUNCTION
 TYPICAL 4-LEGGED INTERSECTION
 WITH SINGLE LANE ROAD

DRAWING NO.
 STC/BR/BSRDC/BNB/JUN/ 01


A3

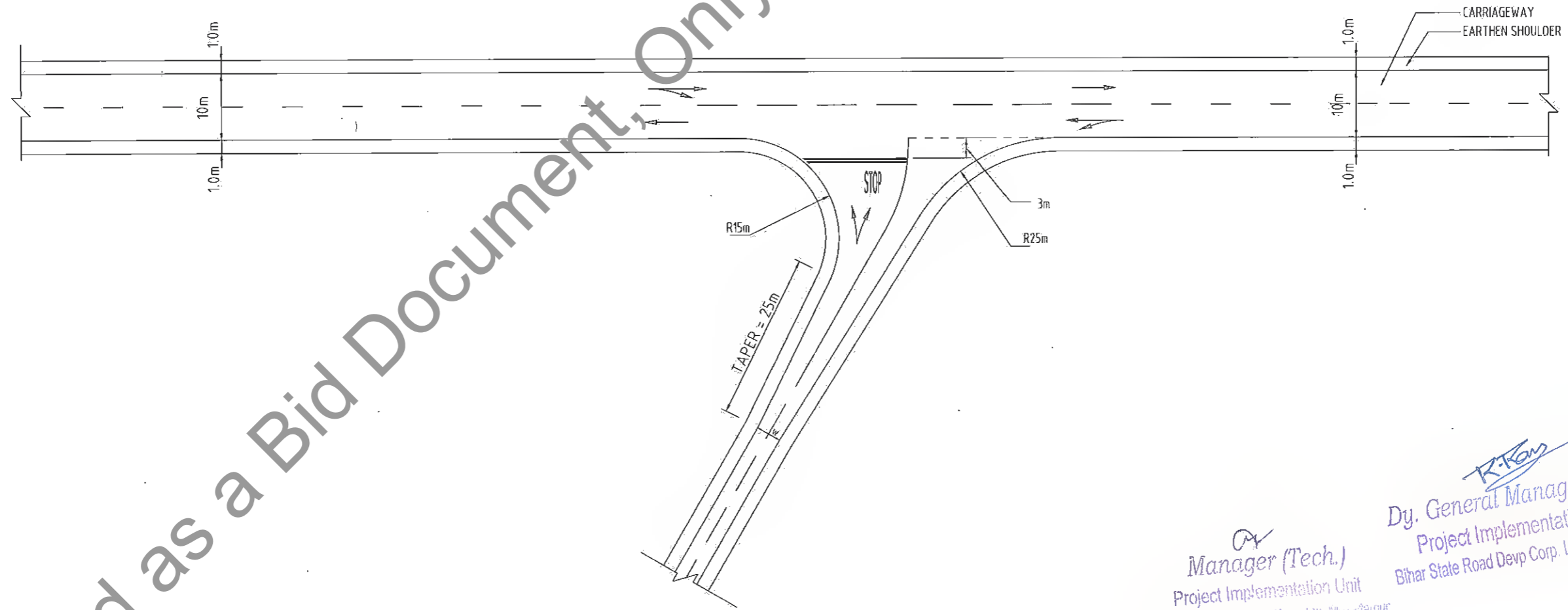



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Dy. General Manager (Tech.)
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R5	2021	MODIFIED DPR				DESIGN BY	JITENDER KUMAR			
R4	JULY 2019	DETAILED PROJECT REPORT				CHECKED BY	GEETA JINDAL			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				SCALE - NTS		DRAWING NO.	STC/BR/BSRDC/BNB/JUN/ 02	A3
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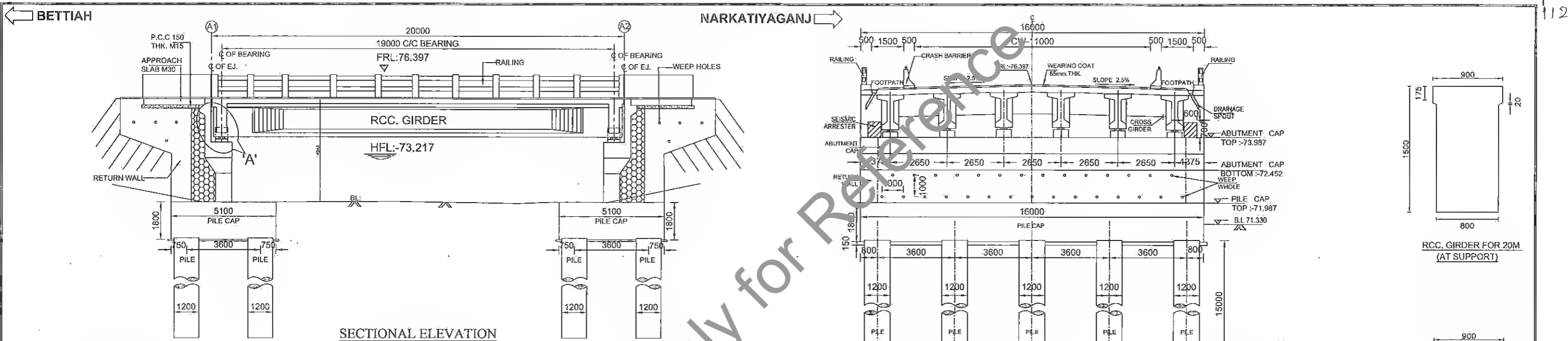


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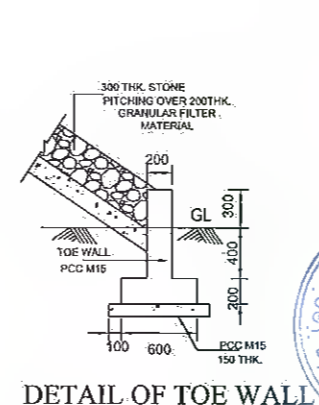
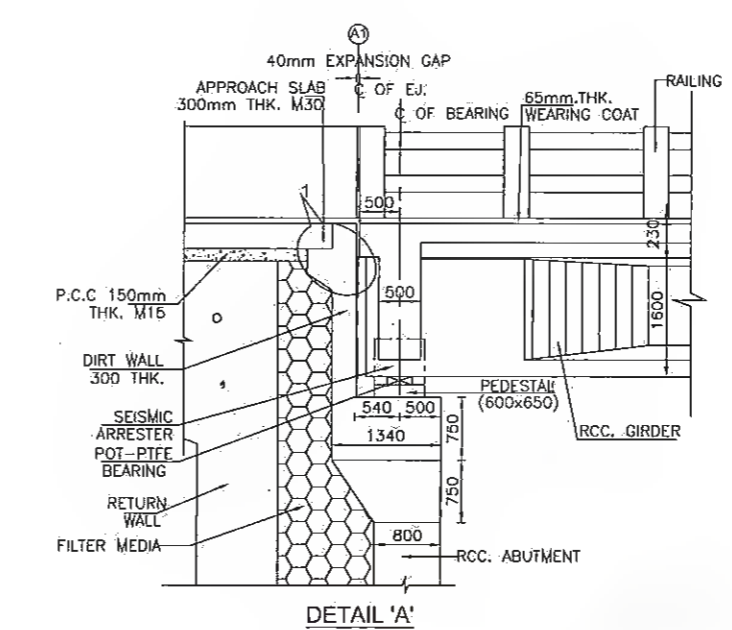
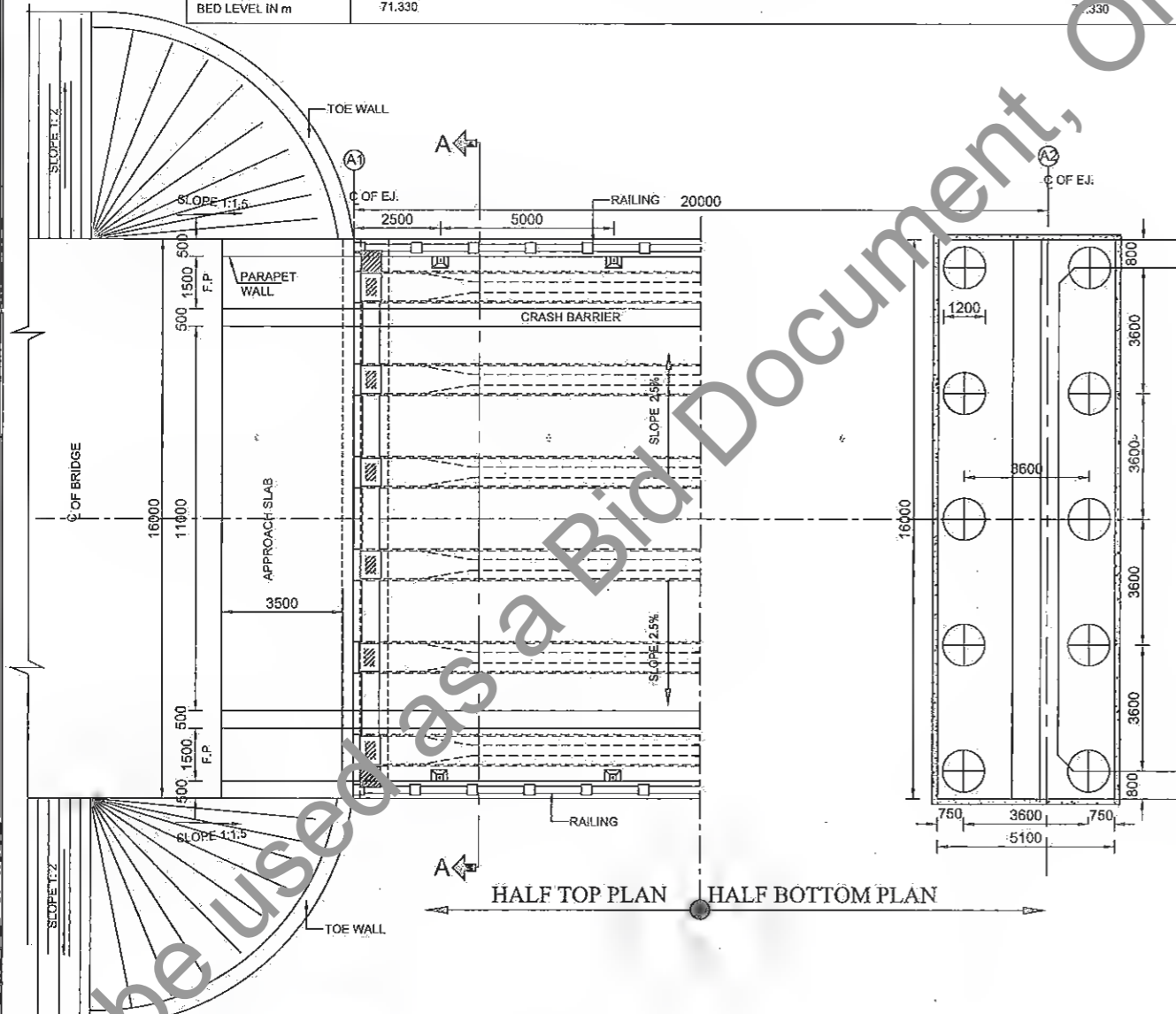
Not to be used as a Bid Document, Only for Reference

MINOR BRIDGE





FRL IN m	76.397	76.397
BED LEVEL IN m	71.330	71.330



DEPTH (M)	LOG	DESCRIPTION	N
0.0			
1.5	M1	GREYISH CLAYEY SILT	7
3.0	M1	DARK GREY CLAY SILT	5
6.0		GREYISH SILTY SAND	8
9.0		GREYISH SILTY SAND	12
12.0		GREYISH SILTY SAND	16
15.0		GREYISH SILTY SAND	19
18.0		GREYISH SILTY SAND	
21.0		GREYISH SILTY SAND	
24.0		GREYISH SILTY SAND	

NOTES:-

- ALL DIMENSIONS ARE IN mm. AND LEVELS IN METERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- THE PROPOSED BRIDGE IS DESIGNED FOR ONE TRAIN OF IRC CLASS 70R WITH 1 LANE OF CLASS A/3 LANES OF IRC CLASS A
- CONCRETE GRADES:
RCC SLAB & GIRDER - M35
APPROACH SLAB - M30
SEISMIC ARRESTER - M40
RETURN WALL - M30
CRASH BARRIER - M40
ABUTMENT SHAFT & DIRT WALL - M35
PEDESTAL UNDER BEARINGS - M40
PILE & PILE CAP - M35
PCC - M15
- GRADE OF STEEL SHALL BE Fe-500 CONFORMING TO IS : 1786.
- 65 THK. WEARING COAT SHALL CONSIST OF MASTIC ASPHALT 25 THK. OVER 40MM LAYER OF BITUMENOUS CONC.
- BACK FILLING SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX : 6 OF IRC : 78-2000 HAVING PROPERTIES $C=0$, $\phi=30^\circ$, $S=20^\circ$, DRY DENSITY (d)=18 kN/Cum
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH FINAL HIGHWAY PLAN AND PROFILE DRAWINGS, ALL LEVELS GIVEN IN DRAWING SHALL BE VERIFIED BEFORE EXECUTION
- SEISMIC ZONE IV HAS BEEN CONSIDERED.
- TYPE OF BEARING - POT-PTFE. VERTICAL LOAD - 150 T. HORIZONTAL LOAD - 20 T. ROTATION - 0.001 RADIAN.
- PILE CAPACITY FOR 1200mm DIA OF 200 T HAS BEEN CONSIDERED FOR 15M DEPTH
- INITIAL LOAD TEST SHALL BE CARRIED OUT TO CONFIRM THE PILE CAPACITY AS PER IS 2911.
- WORKING PILE SHALL BE TESTED AS PER IS 2911
- STRIP SEAL EXPANSION JOINTS SHALL BE USED.

SPECIAL NOTE:-

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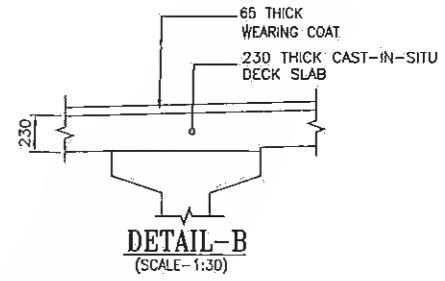
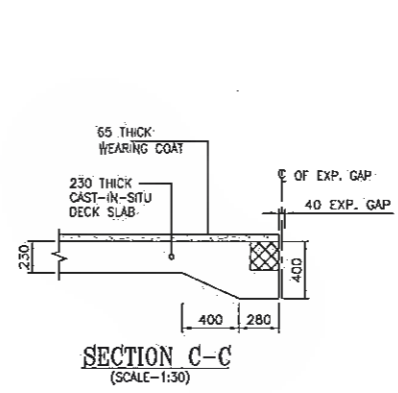
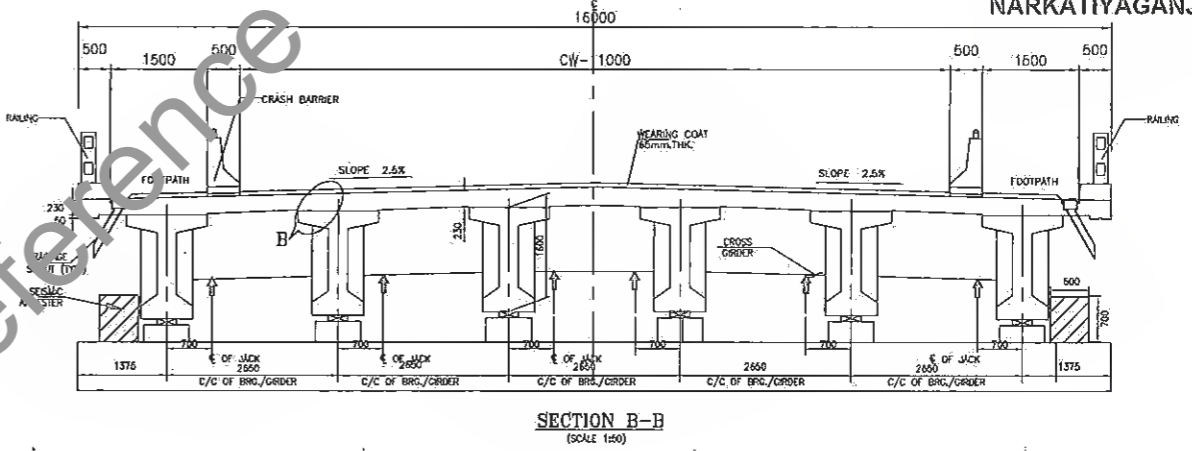
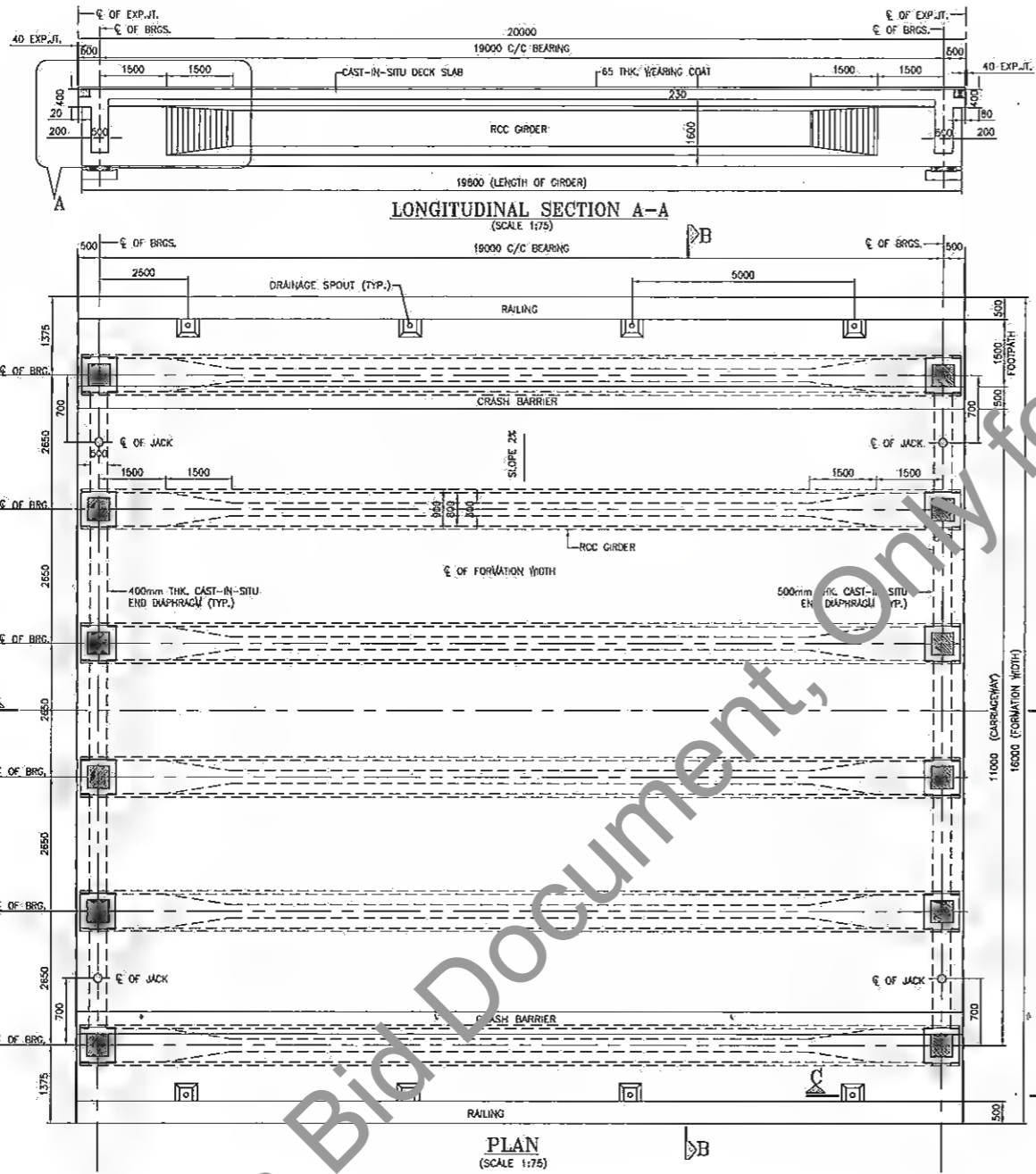
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222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY	ANKIT NEGI
DESIGN BY	NIKHIL
CHECKED BY	RANJAN
SCALE:-AS SHOWN	

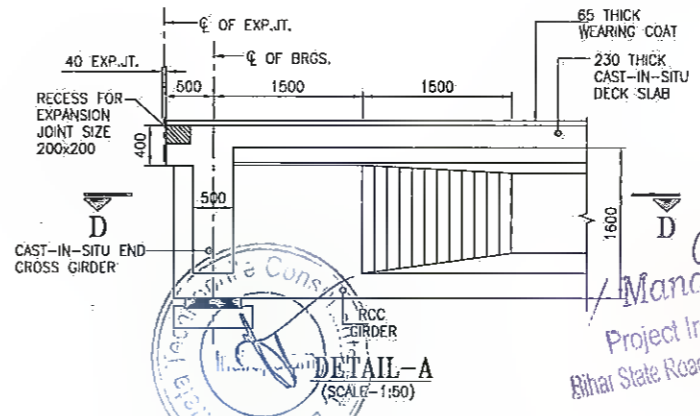
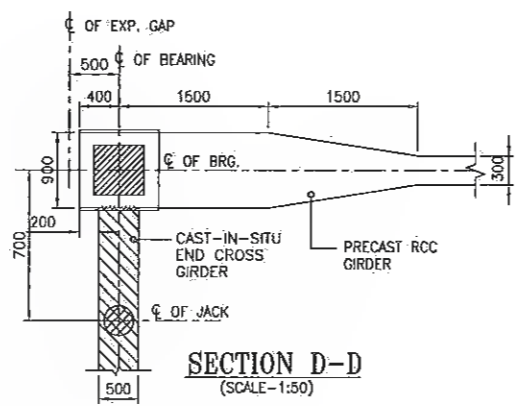
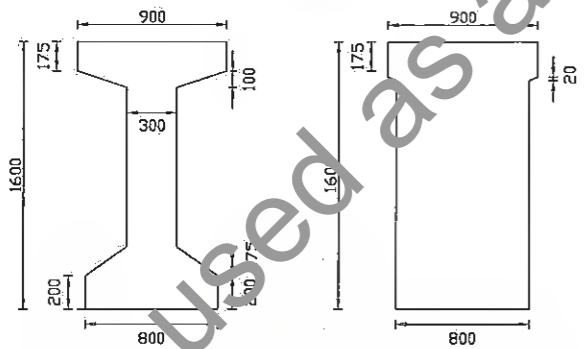
TITLE:

GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT CH:2+725(Span 1X20) (SHEET- 01 OF 08)

DRAWING NO. STC/BR/BSRDC/BNB/STRMNB- A3



- NOTES:-**
- ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE MENTIONED.
 - ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.
 - THE PROPOSED FLYOVER IS DESIGNED FOR THE LIVE LOAD COMBINATIONS GIVEN IN IRC 6:2014. THE GOVERNING COMBINATION SHALL BE CONSIDERED FOR DESIGN.
 - CONCRETE SHALL BE DESIGN MIX AND HAVE MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES:-
 FOR PRECAST RCC GIRDER - 35MPa
 FOR CAST-IN-SITU DECK SLAB - 35MPa
 FOR END CROSS GIRDER - 36MPa
 - THE REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe 500D) CONFORMING TO IS:1786.
 - CLEAR COVER TO OUTERMOST STEEL IS 40mm.
 - DURING JACKING OPERATION, JACKS PLACED UNDER ONE END CROSS-GIRDERS SHALL BE OPERATED SIMULTANEOUSLY USING STRESS CONTROL SYSTEM SO AS TO ENSURE THAT THE REACTION ON ALL THE JACKS IS EQUAL AT ALL TIMES.
 - BEAM SHALL BE KEPT UPRIGHT AT ALL TIMES AND TO BE CLEARLY MARKED INDICATING SPAN, LOCATION, AND RESPECTIVE ENDS BEFORE REMOVAL FROM THE CASTING BED.
 - TOP SURFACE OF GIRDER SHALL BE ROUGHED FOR EFFECTIVE BONDING.
 - ALL THE LENGTHS OF GIRDER & LAYOUT SHALL BE VERIFIED AT SITE BEFORE EXECUTION & ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
 - FOR LIFTING OF THE SUPERSTRUCTURE 2 Nos. JACKS AT EACH SIDE OF SPAN SHALL BE USED, AS SHOWN IN PLAN. THE CAPACITY OF EACH JACK SHALL BE 200 TON.



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CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

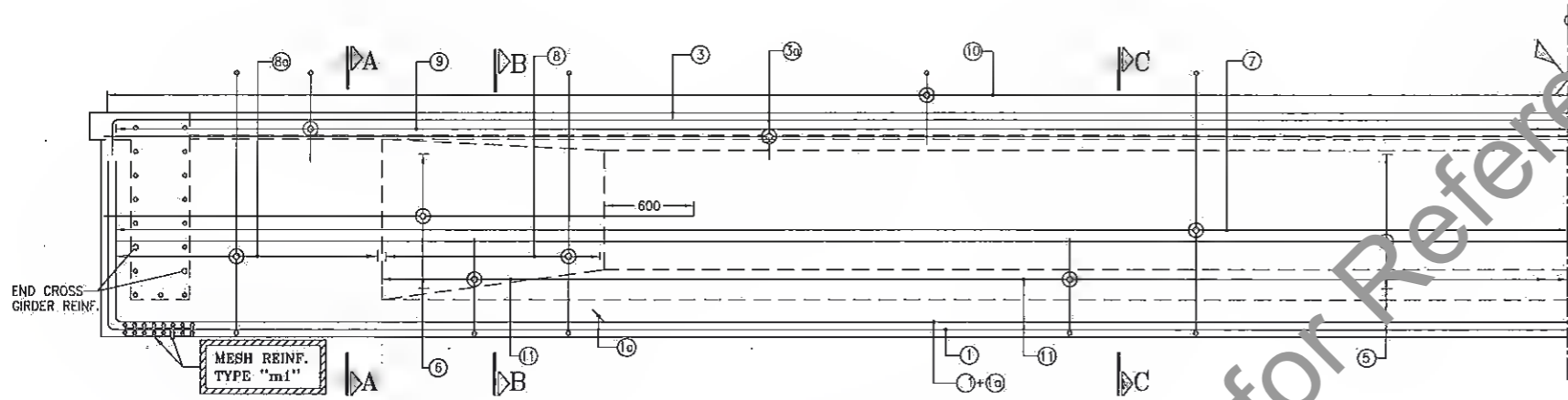
PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

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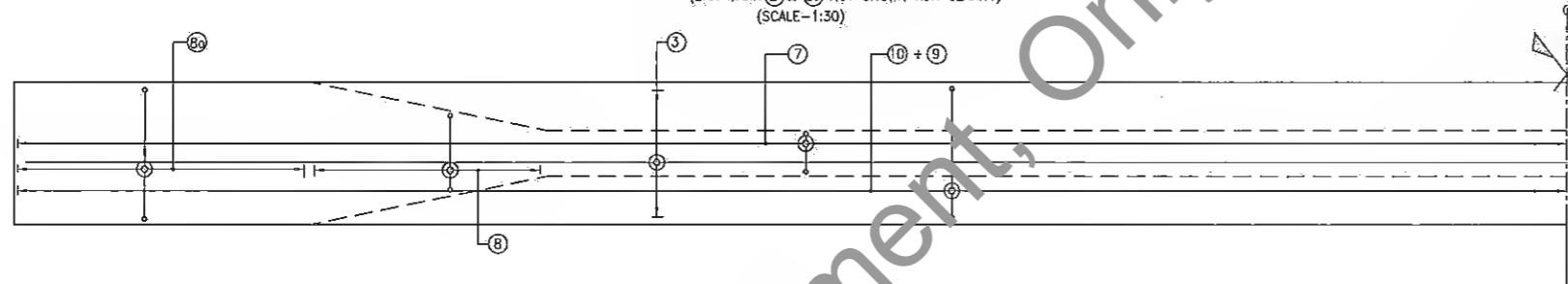
DRAWN BY	ANKIT NEGI
DESIGN BY	NIKHIL
CHECKED BY	RANIAN
SCALE:-AS SHOWN	

TITLE:
 DIMENSIONAL DETAILS OF RCC GIRDER OF MINOR BRIDGE AT CH: 2+725 (Span 1X20) (SHEET- 02 OF 08)

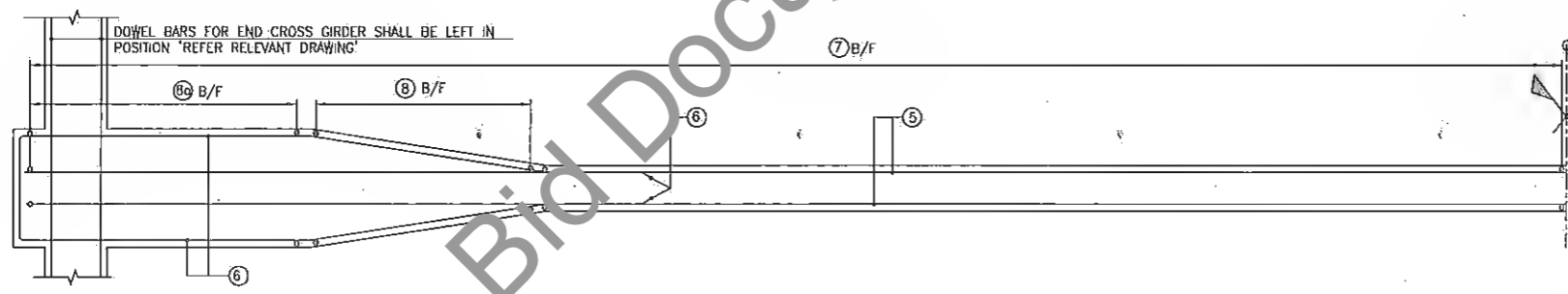
DRAWING NO.
 STC/BR/BSRDC/BNB/STR/MNB-



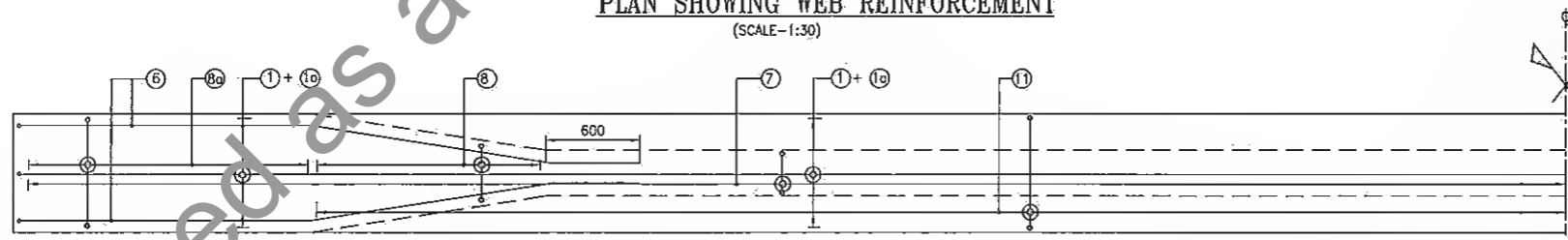
LONGITUDINAL REINFORCEMENT SECTION
(BAR MARK 2 & 2a NOT SHOWN FOR CLARITY)
(SCALE-1:30)



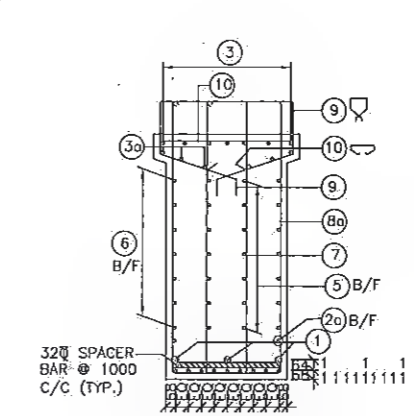
HALF PLAN SHOWING TOP FLANGE REINF. OF GIRDER
(SCALE-1:30)



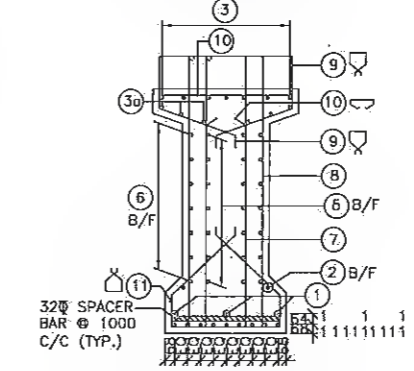
PLAN SHOWING WEB REINFORCEMENT
(SCALE-1:30)



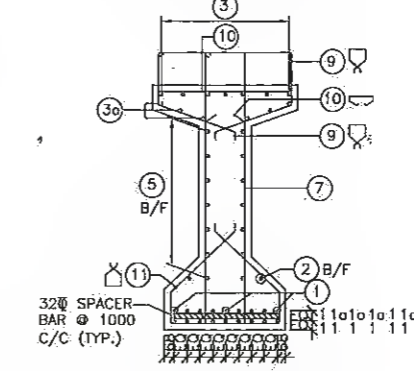
PLAN SHOWING BOTTOM FLANGE REINFORCEMENT
(SCALE-1:30)



SECTION A-A
(SCALE 1:30)



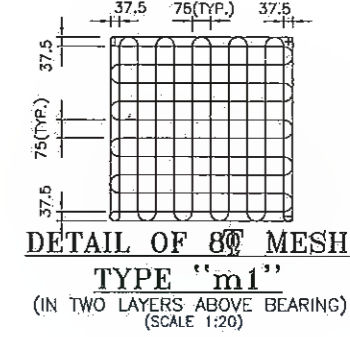
SECTION B-B
(SCALE 1:30)



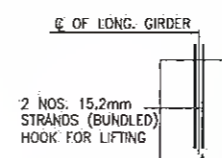
SECTION C-C
(SCALE 1:30)

REINF. SCHEDULE:-

BAR MKD.	BAR DIA.	NO./SPACING	SHAPE
1	32	12 NOS.	┌ 900
1a	32	6 NOS.	┌ 900
2	10	1x2 NOS.	—
2a	10	1x2 NOS.	500 L
3	10	7 NOS.	┌ 1800
3a	10	7 NOS.	—
4		NOT USED	
5	10	2x7 NOS.	—
6	10	2x7 NOS.	450 L
7	10	120 C/C	2-LEGGED
8	10	120 C/C	2-LEGGED VARIES
8a	12	120 C/C	2-LEGGED
9	12	120 C/C	└ 50
10	10	120 C/C	└ 50
11	10	120 C/C	└ 60



DETAIL OF 8# MESH TYPE "m1"
(IN TWO LAYERS ABOVE BEARING)
(SCALE 1:20)



SECTION D-D
(SCALE 1:50)




Manager (Tech)

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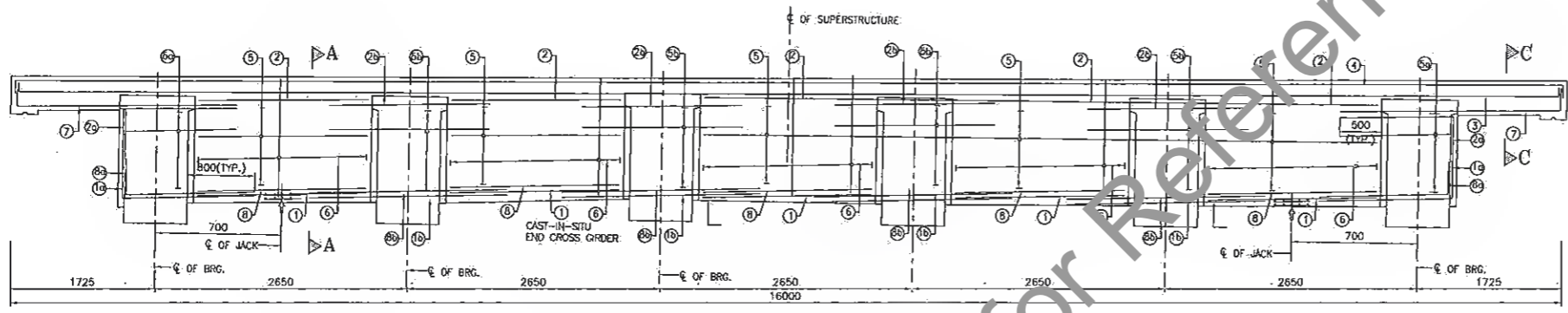
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DPR CONSULTANTS:
370 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY: ANKIT NEGI
DESIGN BY: NIKHIL
CHECKED BY: RANJAN
SCALE:-AS SHOWN

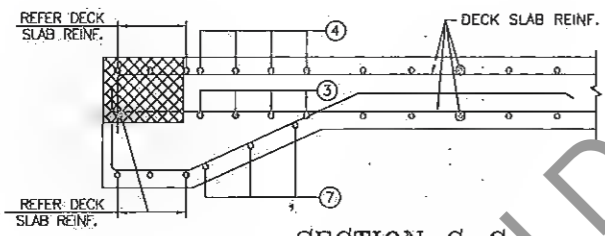
TITLE:
REINFORCEMENT DETAILS OF RCC GIRDER OF MINOR BRIDGE AT CH: 2+725. (Span 1X20) (SHEET- 03 OF 08)
DRAWING NO.
STC/BR/BSRDC/BNB/STR/MNB-
A3



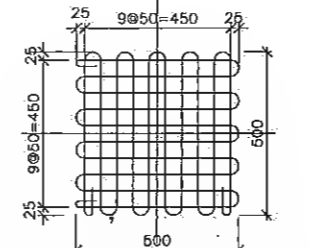
LONGITUDINAL SECTION OF END CROSS GIRDER (SCALE 1:40)

REINF. DETAILS

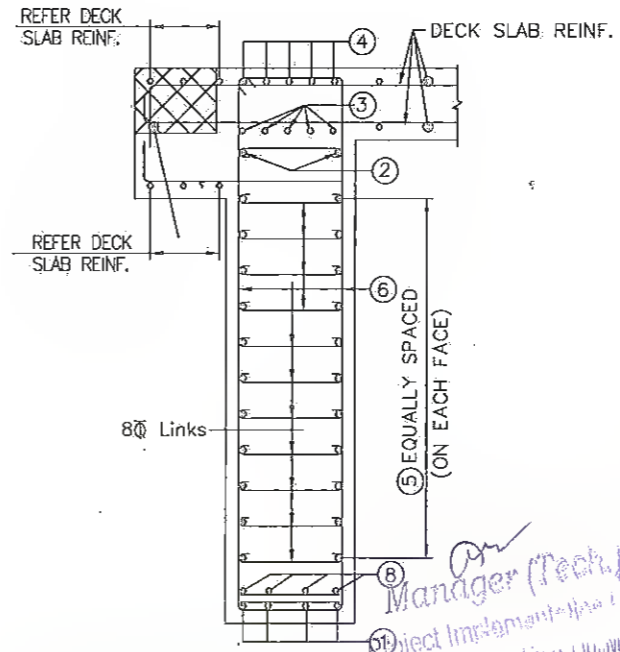
BAR MKD.	BAR DIA.	NO./SPACING	SHAPE
1	20	5X4 NOS.	—
1a	20	2X4 NOS.	650 L
1b	20	4X4 NOS.	—
2	16	5X2 NOS.	—
2a	16	2X2 NOS.	650 L
2b	16	2X2 NOS.	—
3	25	6 NOS.	150 L
4	25	6 NOS.	160 L
5	10	5X11 NOS.	—
5a	10	2X11 NOS.	—
5b	10	4X11 NOS.	—
6	12	200 C/C	2-LEGGED
7	16	2X3 NOS.	200 L
8	20	5X4 NOS.	—
8a	20	2X4 NOS.	650 L
8b	20	4X4 NOS.	—



SECTION C-C (SCALE 1:15)



MESH TYPE-A (SCALE 1:15)



SECTION A-A (SCALE 1:20)

NOTES:-

1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS.
2. DO NOT SCALE THE DIMENSIONS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONC. FOR R.C.C. WORKS = M-35
4. THE REINFORCING STEEL SHALL BE OF TMT BARS (GRADE DESIGNATION Fe 500D) CONFORMING TO IS:1786.
5. CLEAR COVER TO REINFORCEMENT SHALL BE 40mm.
6. NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT A SECTION AND LAPPING SHALL BE STAGGERED. MINIMUM LAP LENGTH SHALL BE 76 TIMES DIA OF BAR.

R.R.
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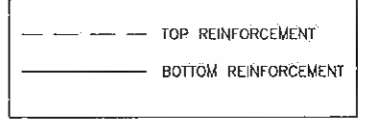
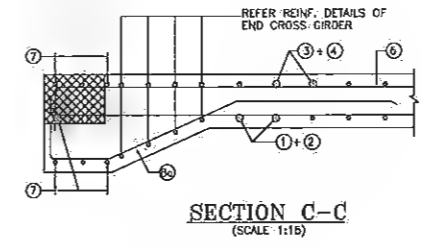
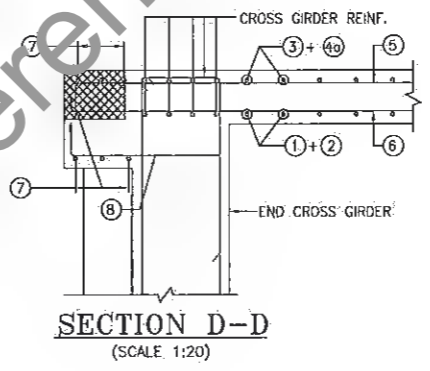
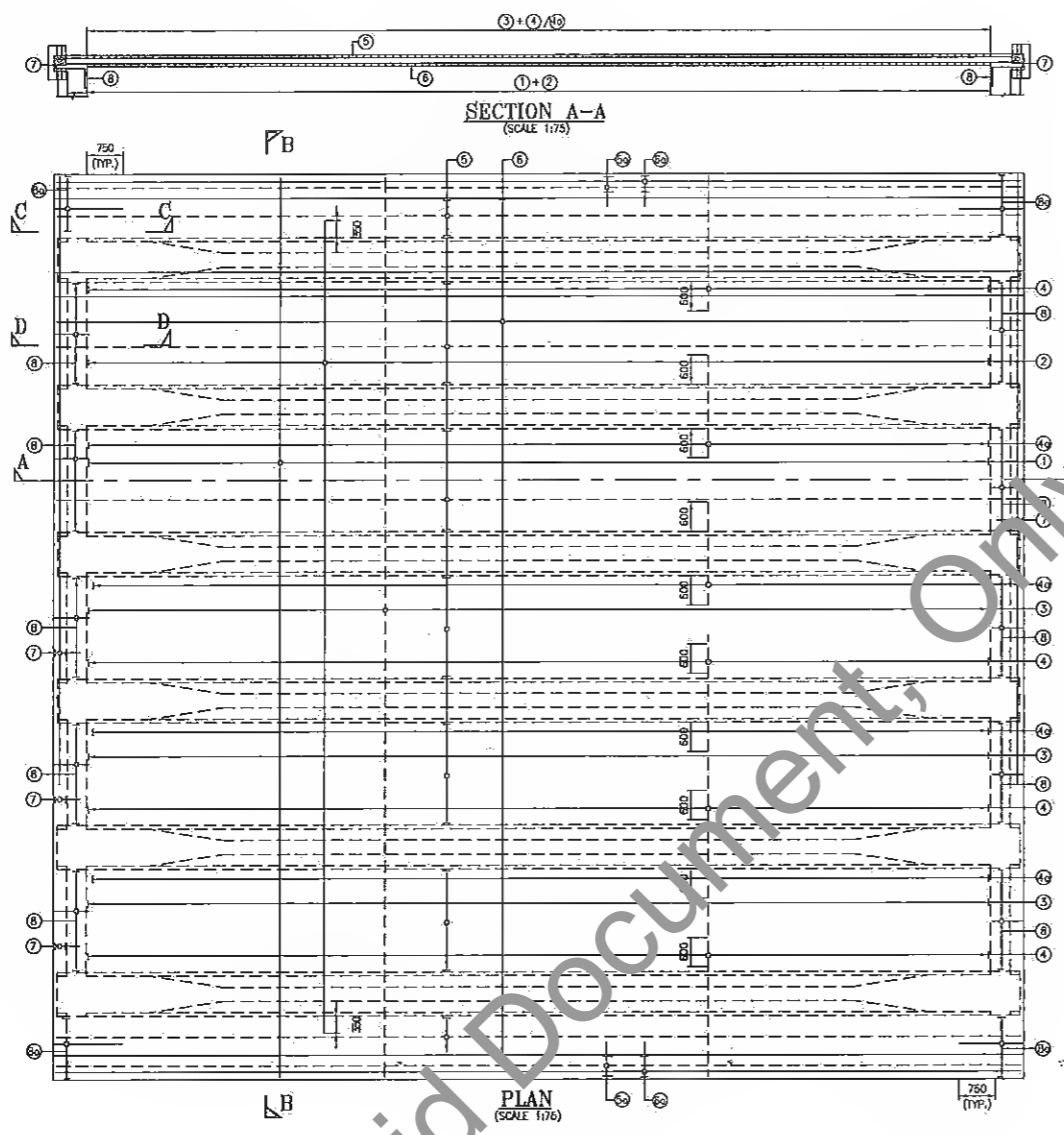
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 Ghaziabad-201014

DRAWN BY	ANKIT NEGI
DESIGN BY	NIKHIL
CHECKED BY	RANJAN
SCALE: AS SHOWN	

TITLE:
REINFORCEMENT DETAIL FOR END CROSS GIRDER OF MINOR BRIDGE AT CH: 2+725 (Span 1X20) (SHEET- 04 OF 08)

DRAWING NO.
 STC/BR/BSRDC/BNB/STR/MNB-

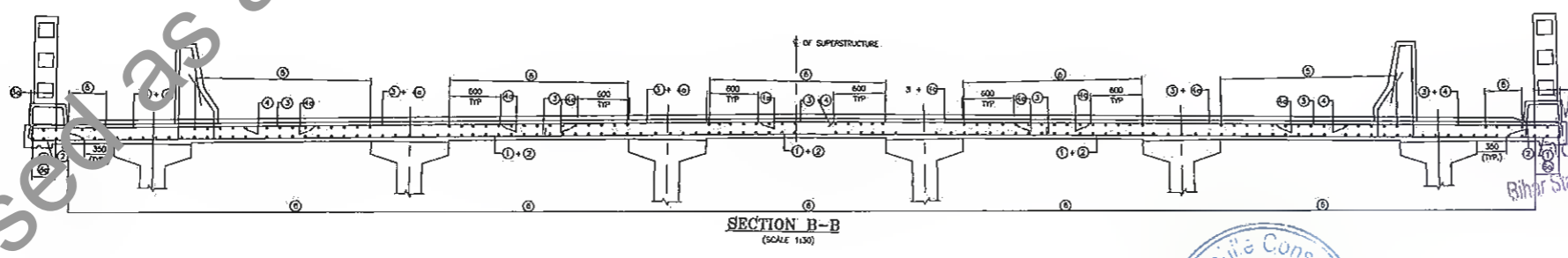


REINFORCEMENT DETAILS

BAR MKD.	BAR DIA.	NO./SPACING	SHAPE	REMARKS
1	12	150 C/C	┌┐ 120	BAR NOS. ① & ② ARE ALTERNATE BARS
2	12	160 C/C	—	
3	12	150 C/C	┌┐ 120	BAR NOS. ③ & ④ ARE ALTERNATE BARS
4	12	150 C/C	┌┐ 120	
4a	12	150 C/C	—	
5	10	150 C/C	—	
5a	16	2x3 NOS.	—	
6	10	150 C/C	—	
6a	16	2x3 NOS.	—	
7	12	2x7 NOS.	—	
B	12	100 C/C	┌┐ 400	
8a	10	100 C/C	200L	

NOTES:-

1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS.
2. DO NOT SCALE THE DIMENSIONS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE = M35
4. THE REINFORCING STEEL SHALL BE OF TMT BARS (GRADE DESIGNATION Fe 500) CONFORMING TO IS:1786.
5. CLEAR COVER TO REINFORCEMENT SHALL BE 40mm.
6. NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT A SECTION AND LAPPING SHALL BE STAGGERED. MINIMUM LAP LENGTH SHALL BE 76 TIMES DIA OF BAR.



SPECIAL NOTE:-

SPECIALLY QUALIFIED ENGINEERS WITH ADEQUATE EXPERIENCE OF BRIDGE ENGINEERING CAPABLE OF ENSURING CAREFUL EXECUTION OF WORK, SHALL BE DEPLOYED BY CONSTRUCTION AGENCY.



Manager (Tech.)
Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2018	MODIFIED DPR
R4	JULY 2018	DETAILED PROJECT REPORT
R3	MAY 2018	CLIENT SUGGESTION INCORPORATED
R2	AUG. 2018	FINAL DDPR
R1	MAY 2018	FINAL FEASIBILITY
R0	MARCH 2018	FEASIBILITY

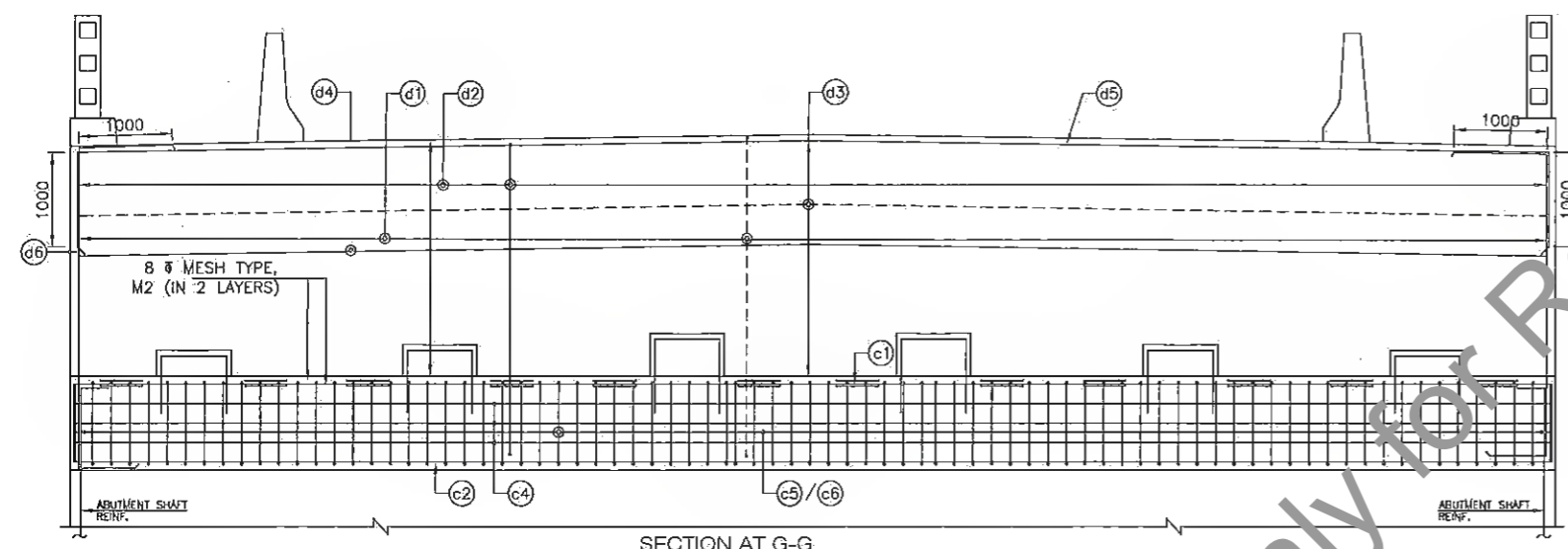
CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

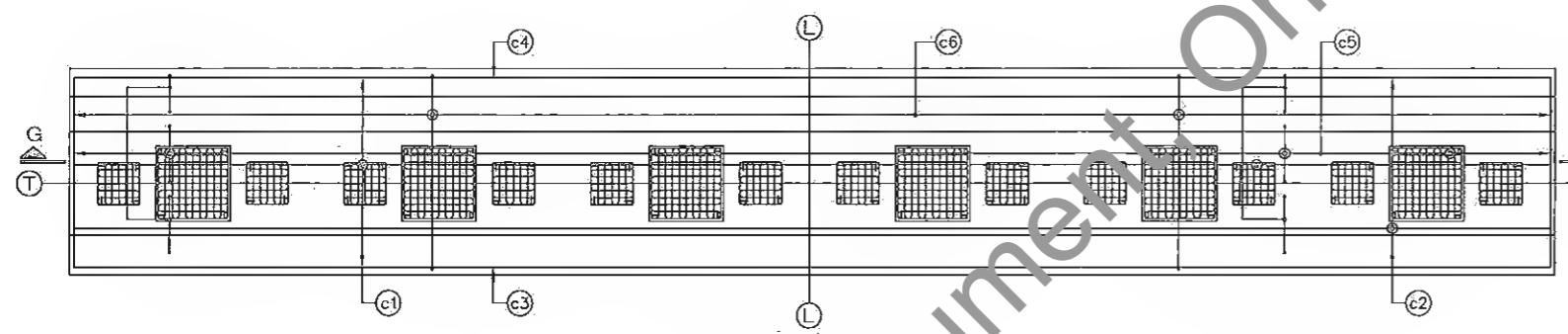
DPR CONSULTANTS:
s70 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY: ANKIT NEGI
 DESIGN BY: NIKHIL
 CHECKED BY: RANJAN
 SCALE: AS SHOWN

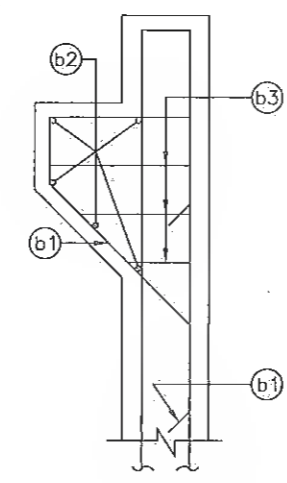
TITLE:
REINFORCEMENT DETAIL FOR DECK SLAB OF MINOR BRIDGE AT CH: 2+725 (Span 1X20) (SHEET- 05 OF 08)
 DRAWING NO. STC/BR/BSRDC/BNB/STR/MNB-
 A3



SECTION AT G-G



REINFORCEMENT DETAILS IN PLAN

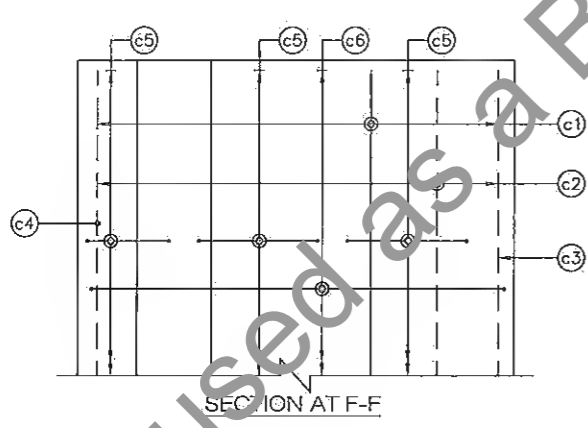


DETAIL AT "Y"
(DETAILS OF BRACKET)

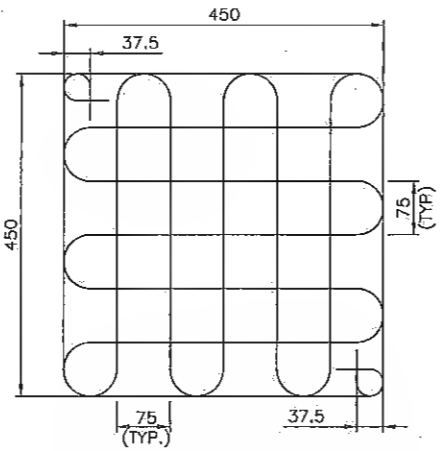
LEGEND:-

TOP BAR	—————
BOTTOM BAR	—————
EARTH FACE	—————
NON EARTH FACE	—————

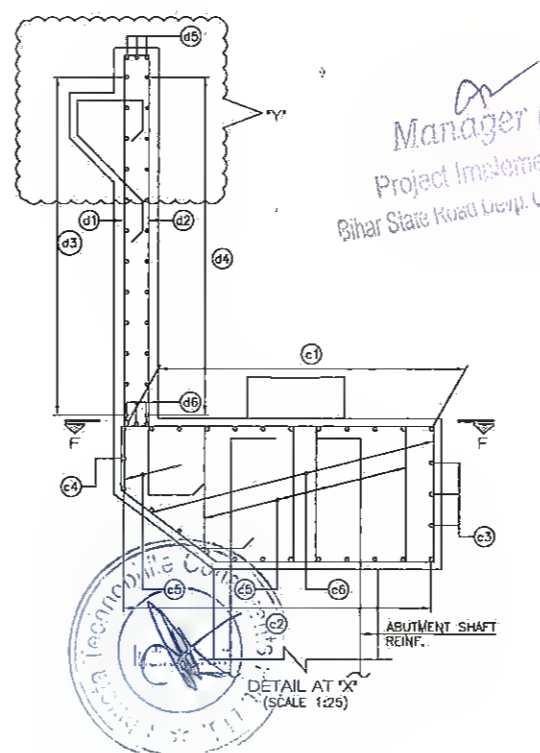
REINFORCEMENT DETAILS		
BAR MKD.	BAR DIA & SPACING/NOS	BAR SHAPE
ABUTMENT CAP:-		
c1	10 NOS. 12 #	200 200
c2	10 NOS. 12 #	200 200
c3	3 NOS. 12 #	200 200
c4	7 NOS. 12 #	200 200
c5	2 LEGGED 10 # @200 C/C	
c6	2 LEGGED STIRRUPS 16 # @200 C/C	
DIRT WALL:-		
d1	16 # @150c/c	
d2	10 # @150c/c	
d3	10 # @200c/c	200 200
d4	10 # @200c/c	200 200
d5	3 NOS. 16 #	300 300
d6	3 NOS. 16 #	
APPROACH SLAB BRACKET:-		
b1	12 # @100c/c	
b2	5 NOS. 12 #	
b3	3 LAYERS 2 LEGGED 12 # STIRRUPS @400c/c HORIZONTAL.	



SECTION AT F-F



DETAIL OF 8 # MESH TYPE "M2"
(IN TWO LAYERS AT JACK LOCATION)



DETAIL AT "X"
(SCALE 1:25)

K.R.
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devt Corp. Ltd. Muzaffarpur

[Signature]
Manager (Tech)
Project Implementation Unit
Bihar State Road Devt Corp. Ltd. Muzaffarpur

- NOTES:-
- ALL DIMENSIONS ARE IN MM.
 - DO NOT SCALE THE DIMENSIONS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - GRADE OF CONCRETE = M35
 - THE REINFORCING STEEL SHALL BE OF TMT BARS (GRADE DESIGNATION Fe 500) CONFORMING TO IS:1786.
 - CLEAR COVER TO REINFORCEMENT SHALL BE 40mm.
 - NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT A SECTION AND LAPPING SHALL BE STAGGERED. MINIMUM LAP LENGTH SHALL BE 76 TIMES DIA OF BAR.
 - LAP/ SPLICES SHALL BE AS PER IRC:112-2011 (CLAUSE 15.2.5).
 - MESH REINFORCEMENT SHALL BE MS BARS (GRADE DESIGNATION S250) CONFORMING TO IS:432 PART-I MILD STEEL.
 - MESH TYPE 'M1' & 'M2' SHALL BE PROVIDED AT EACH BEARING PEDESTAL & JACK LOCATIONS IN TWO LAYER. AT 20mm AND AT 100mm FROM OUTER FACE OF CONCRETE.

SPECIAL NOTE:-
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REV.	DATE	DESCRIPTION OF REVISIONS
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DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indirapuram,
Ghaziabad-201014

DRAWN BY	ANKIT NEGI
DESIGN BY	NIKHIL
CHECKED BY	RANJAN
SCALE:-AS SHOWN	

TITLE:
REINFORCEMENT DETAIL FOR MESH & DIRT WALL & ABUTMENT CAP OF MINOR BRIDGE AT CH: 2+725 (Span 1X20) (SHEET-06 OF 08)

DRAWING NO.
STC/BR/BSRDC/BNB/STRMNB-

A3