

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING

East Abutment, Pier-1, Pier-2, Pier-3 & West Abutment

JUNE 2015

CONTRACTOR:
CTC-KARJKA IV
Bauwatar, Kathmandu

CONSULTANT:
KECC-TMS-ERM Associates

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

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ADB Grant No.0150-NEP

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East Abutment, Pier-1, Pier-2, Pier-3 & West Abutment

JUNE 2015

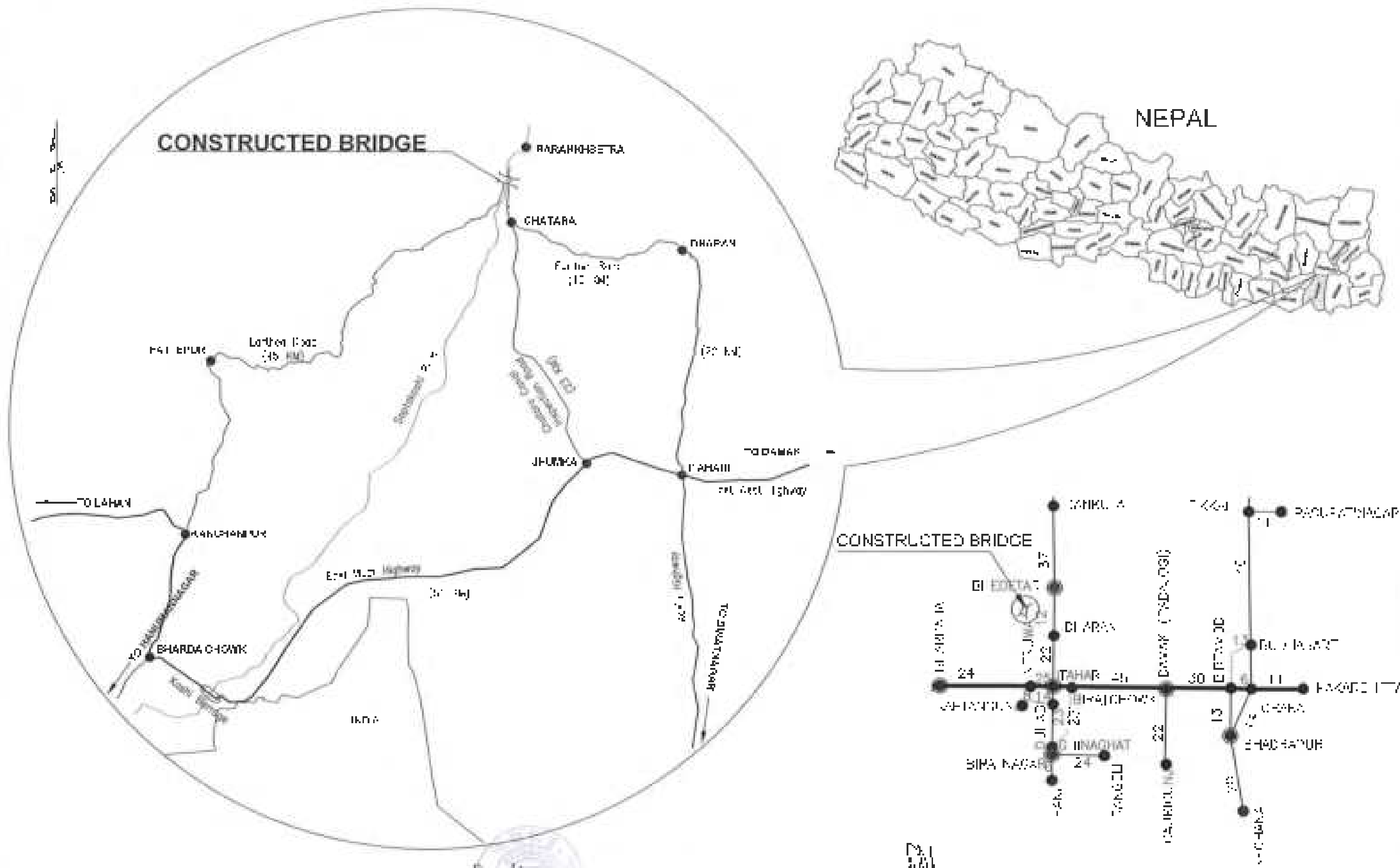
CONTRACTOR:
CICE-KALIKA JV
Rahuwara, Kathmandu

CONSULTANT:
KECC-TMS-ERMC Associates

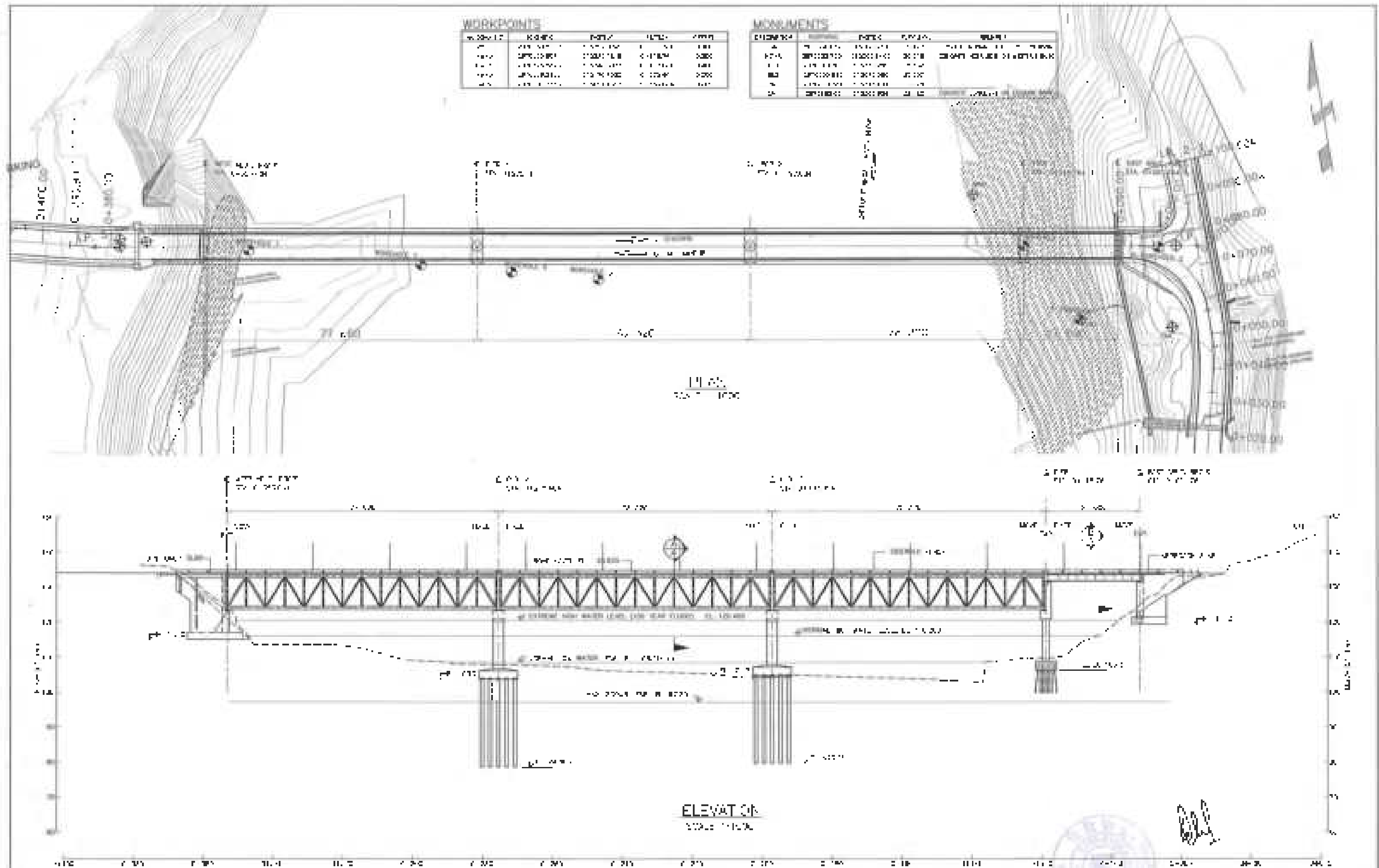
Dwg No.	Drawing Ref.	Drawing Name	REMARK
		Cover Sheet	
1	E-DRP-ICB-KE	Drawing List & General Notes	
2	F-DRP-ICB-KR	Location Plan	
3	L-DRP-ICB-KJ	Site Plan and Topographic Detail	
4	E-DRP-ICB-KE	General Arrangement - Plan & Profile	
5	F-DRP-ICB-KE	General Arrangement - Cross Section of Superstructure	
6	E-DRP-ICB-KE	East Approach Concrete Outline	
7	C-DRP-ICB-KD	East Abutment Reinforcement Detail - Sheet 1 of 2	
8	L-DRP-ICB-KJ	East Abutment Reinforcement Detail - Sheet 2 of 2	
9	F-DRP-ICB-KR	Pier 1 Concrete Outline	
10	C-DRP-ICB-KD	Pier 1 Reinforcement Details	
11	E-DRP-ICB-KE	Pier 2 Concrete Outline Sheet 1 of 4	
11A	F-DRP-ICB-KR	Pier 2 Piling Detail Sheet 2 of 4	
11B	L-DRP-ICB-KJ	Pier 2 Piling Detail Sheet 3 of 4	
11C	E-DRP-ICB-KE	Pier 2 Piling Detail Sheet 4 of 4	
12	F-DRP-ICB-KD	Pier 2 Reinforcement Details - Sheet 1 of 2	
12	L-DRP-ICB-KJ	Pier 2 Reinforcement Details - Sheet 2 of 2	
14	F-DRP-ICB-KR	Pier 3 Concrete Outline Sheet 1 of 4	
14A	C-DRP-ICB-KD	Pier 3 Piling Detail Sheet 2 of 4	
14B	E-DRP-ICB-KE	Pier 3 Piling Detail Sheet 3 of 4	
14C	F-DRP-ICB-KR	Pier 3 Piling Detail Sheet 4 of 4	
15	L-DRP-ICB-KJ	Pier 3 Reinforcement Details - Sheet 1 of 2	
16	E-DRP-ICB-KE	Pier 3 Reinforcement Details - Sheet 2 of 2	
17	C-DRP-ICB-KD	Piling Details	
18	E-DRP-ICB-KE	West Approach Concrete Outline	
19	F-DRP-ICB-KR	West Abutment Reinforcement Details	
20	L-DRP-ICB-KJ	Deck Truss Detail	
21	F-DRP-ICB-KR	Deck Truss (Compression & Tension)	
22	C-DRP-ICB-KD	Deck Truss Member (Diagonal & Vertical)	
23	E-DRP-ICB-KE	Deck Truss Cross Bracing and Connection Detail	
24	F-DRP-ICB-KR	Top Chord Joint Sheet 1 of 2	

Dwg No.	Drawing Ref.	Drawing Name	REMARK
25	L-DRP-ICB-KJ	Top Chord Joint Sheet 2 of 2	
26	F-DRP-ICB-KE	Bottom Chord Joint Sheet 1 of 2	
27	F-DRP-ICB-KR	Bottom Chord Joint Sheet 2 of 2	
28	L-DRP-ICB-KJ	Detail of Truss Bracing Nodes	
29	E-DRP-ICB-KE	Deck Girders	
30	F-DRP-ICB-KR	Deck Girder Connection	
31	L-DRP-ICB-KJ	Truss Span Bracing and Span Connection Detail	
32	F-DRP-ICB-KE	Truss Truss Lacing Detail Sheet 1 of 2	
33	C-DRP-ICB-KD	Deck Truss Lacing Detail Sheet 2 of 2	
34	L-DRP-ICB-KJ	Jump Span Plan	
35	F-DRP-ICB-KR	Jump Span Section	
36	C-DRP-ICB-KD	Jump Span Deck Reinforcement Detail	
37	E-DRP-ICB-KE	Jump Span Girder Layout and Section	
38	F-DRP-ICB-KR	Truss Span Deck Reinforcement Details	
40	L-DRP-ICB-KJ	Approach Slab Reinforcement Details	
41	E-DRP-ICB-KE	Sealing Detail	
42	F-DRP-ICB-KR	Expansion Joint Detail	
43	L-DRP-ICB-KJ	Deck Drain Detail	
44	F-DRP-ICB-KE	Street Light Detail Sheet 1 of 3	
44A	C-DRP-ICB-KD	Street Light Plan Sheet 2 of 3	
44a	E-DRP-ICB-KE	Street Light Plan Sheet 3 of 3	
45	E-DRP-ICB-KE	Thermoplastic Paving (Plan of Eastern Approach Road)	
45A	C-DRP-ICB-KJ	Thermoplastic Paving (Plan of Western Approach Road)	
45B	F-DRP-ICB-KR	Thermoplastic Pavt	

10, New Engineering Building, Department of Roads, Engineering Faculty, University of Kuala Lumpur, Kuala Lumpur, Malaysia. Tel: 603-917-5500 Fax: 603-917-5501, 917-5502	APPROVED Assoc. Engineering Consultant Corp.	DESIGNED CTCER-KAT YKA JV SULIMAN, KATILAN	CONSTRUCTION OF 405th BRIDGE AND APPROACHES (CHALAKA)	DRAWING NO. 03-BUL-2402-01 DRAWING LIST & GENERAL NOTES	PREPARED BY 	CHECKED BY 	DATE 2011-12-06	SCALE AS SHOWN	NO. OF 2
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					DRAWING NO. 03-BUL-2402-01	DRAWING NO. 03-BUL-2402-01		SCALE AS SHOWN	NO. OF 2



DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS	Korea Engineering Consultant Corp.	CHATE-KAT & A JV BILWATAR, KATHMANDU	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATARA)	AS BUILT DRAWING LOCATION PLAN	1. Scale 2. Date 3. Author	1. Scale 2. Date 3. Author	1. Scale 2. Date 3. Author	1. Scale 2. Date 3. Author	1. Scale 2. Date 3. Author
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WORKPOINTS				
NO.	COORDINATES	DATE	TIME	STATUS
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3	0+100.00	2023/11/18	09:00	START
4	0+150.00	2023/11/18	09:30	END
5	0+200.00	2023/11/18	10:00	START
6	0+250.00	2023/11/18	10:30	END
7	0+300.00	2023/11/18	11:00	START
8	0+350.00	2023/11/18	11:30	END

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3	0+100.00	2023/11/18	09:00	START
4	0+150.00	2023/11/18	09:30	END
5	0+200.00	2023/11/18	10:00	START
6	0+250.00	2023/11/18	10:30	END
7	0+300.00	2023/11/18	11:00	START
8	0+350.00	2023/11/18	11:30	END

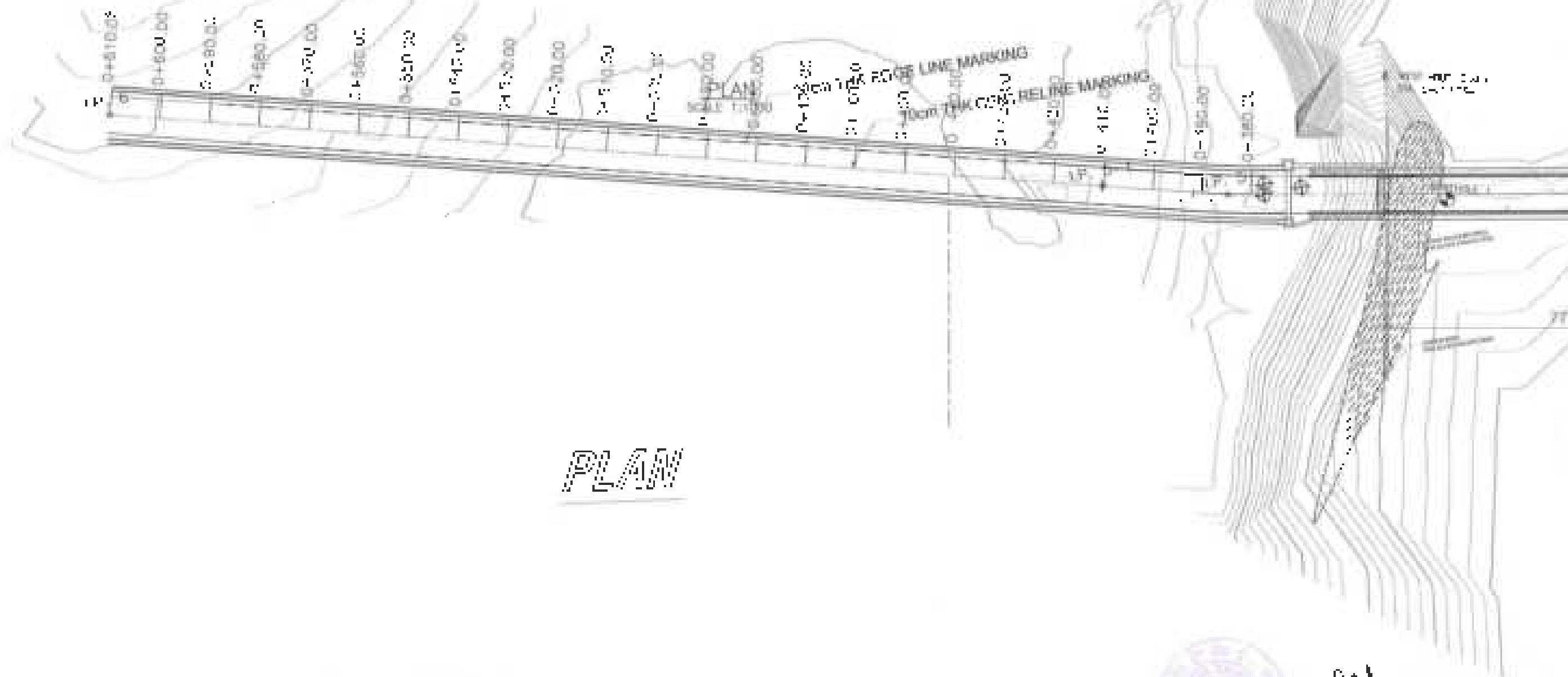
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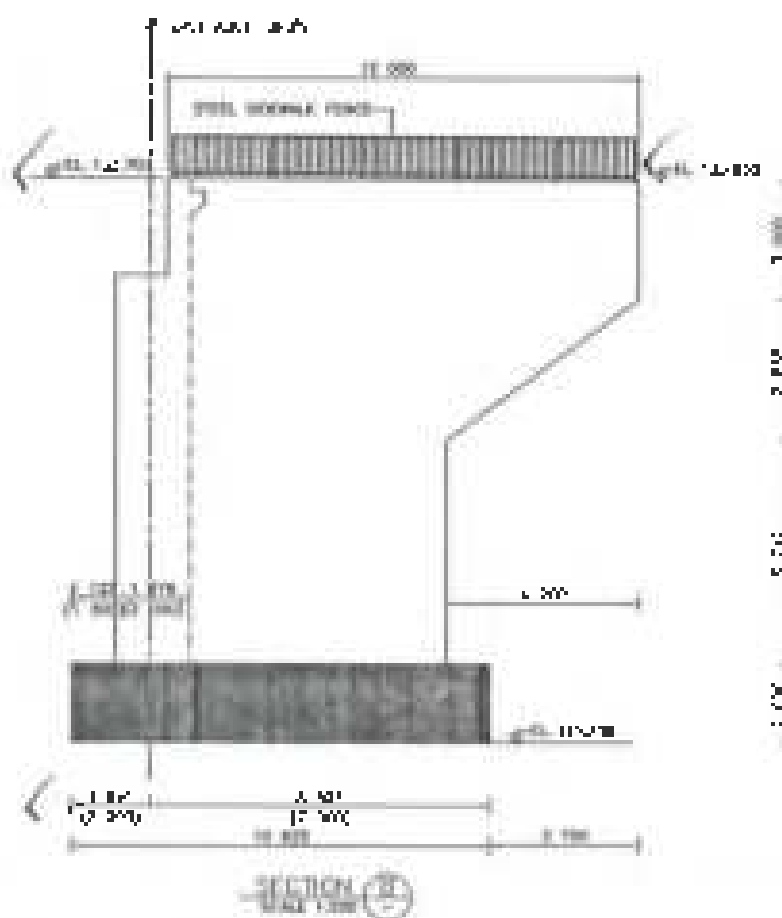
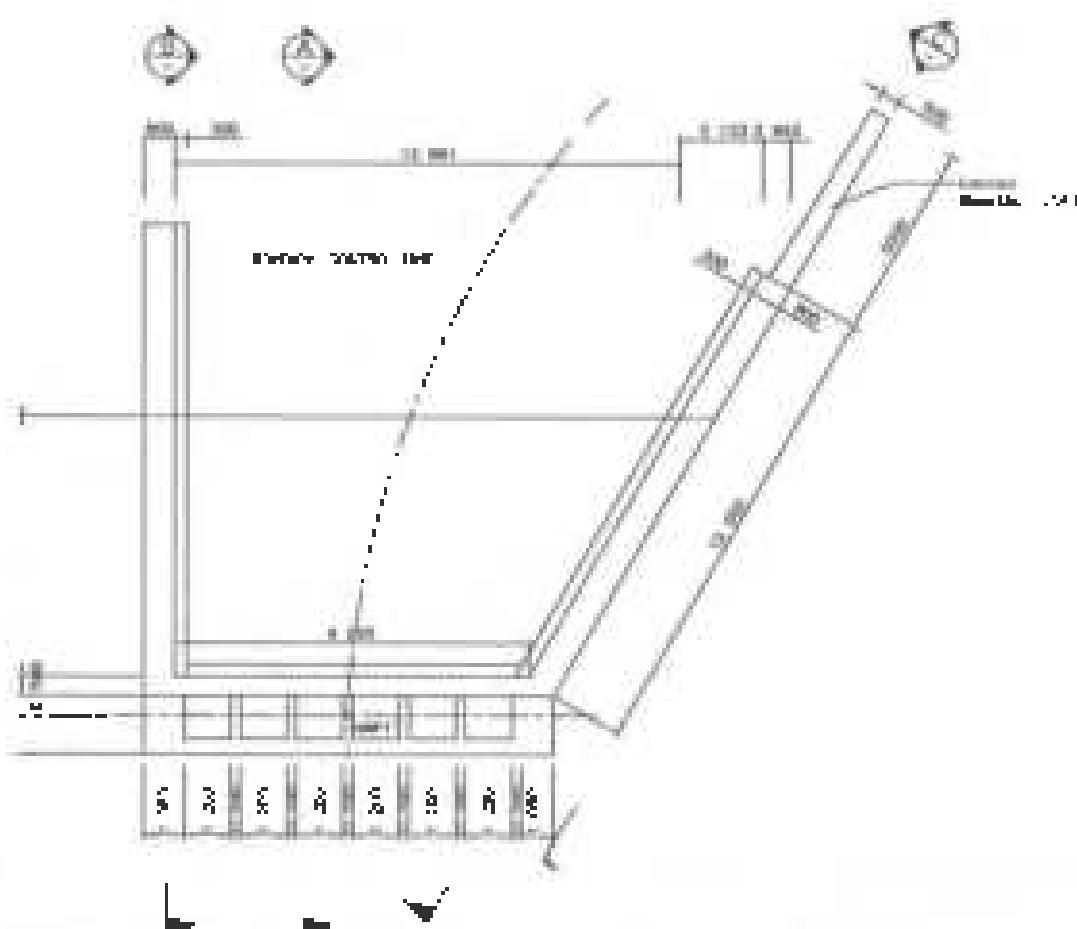
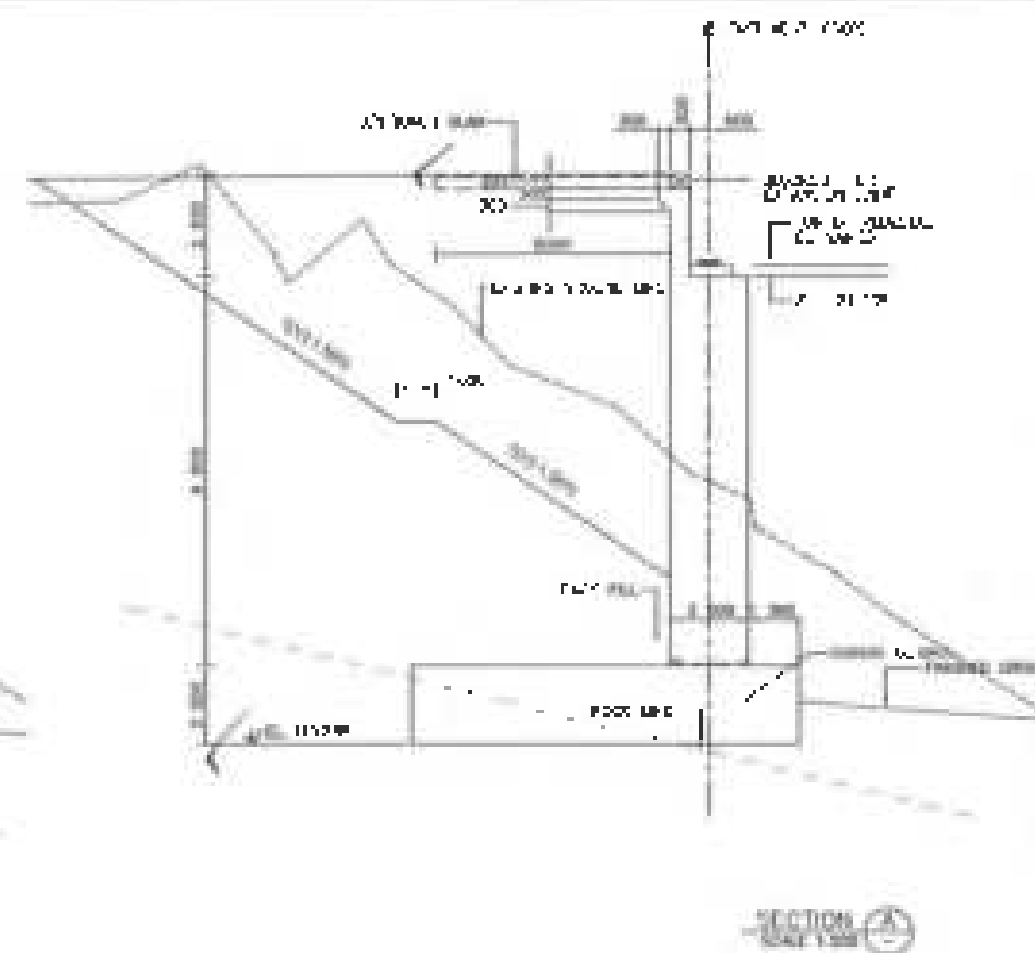
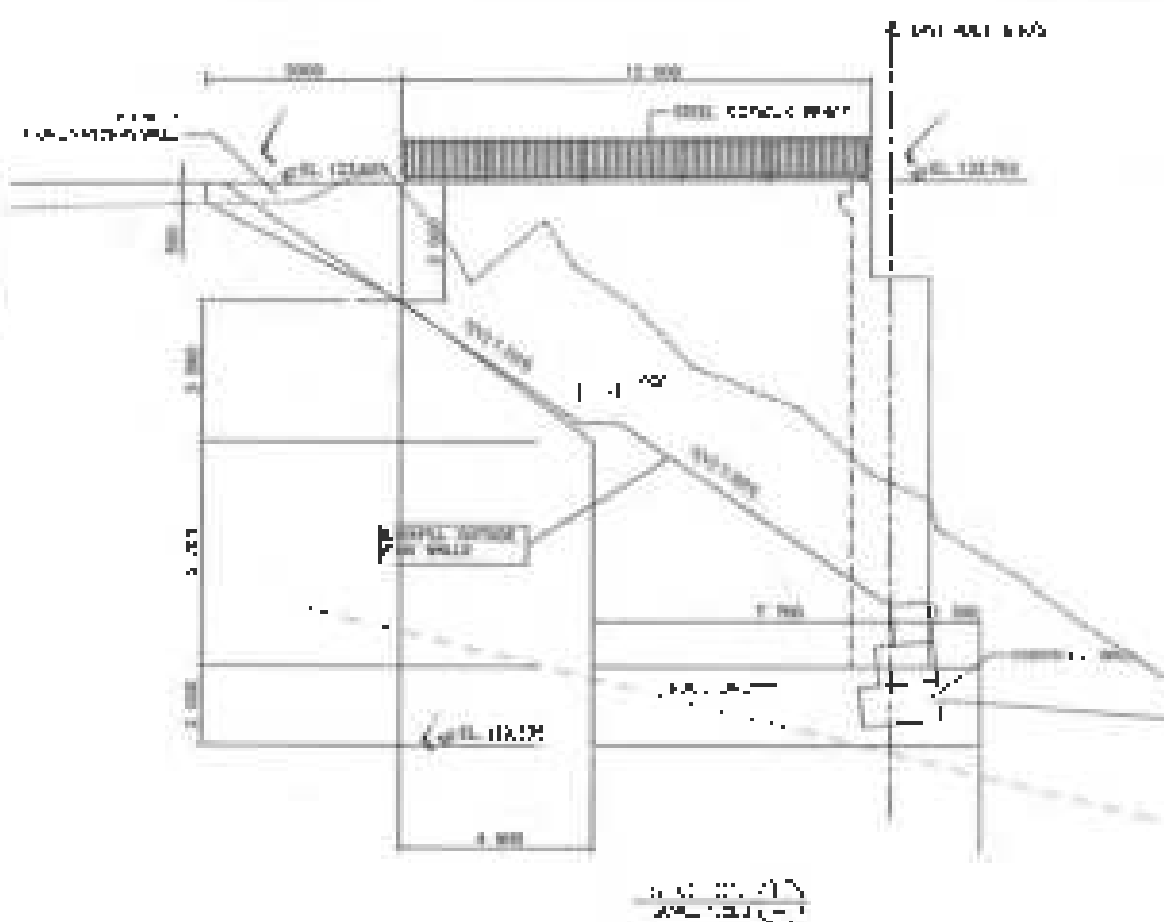
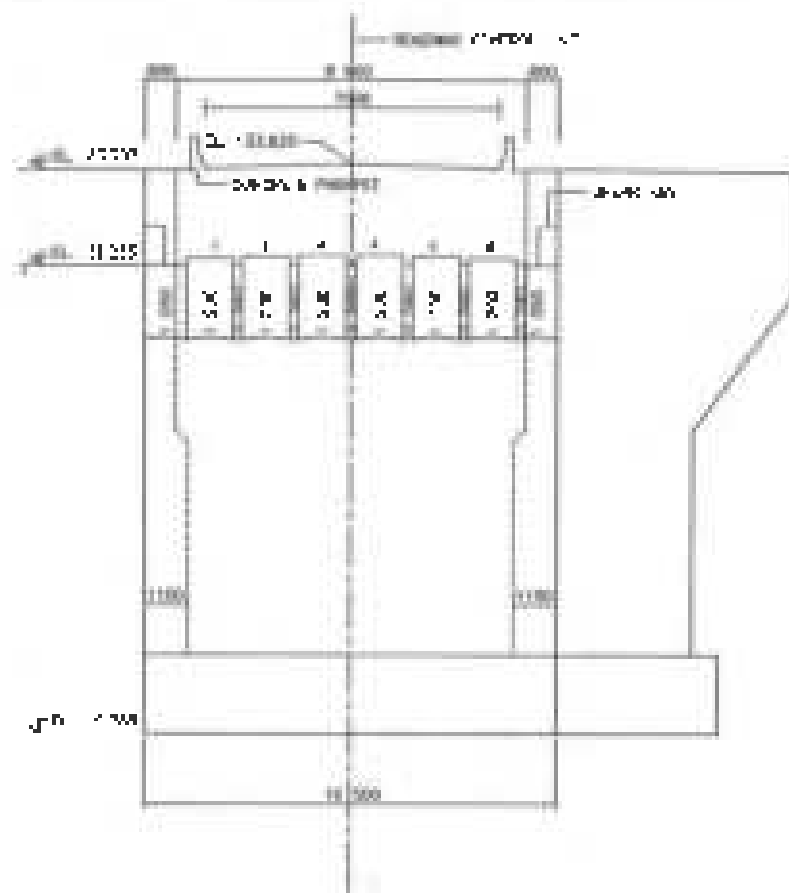
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1991	1991-1992	1,000,000	1,000,000	1,000,000	1,000,000
1992	1992-1993	1,000,000	1,000,000	1,000,000	1,000,000
1993	1993-1994	1,000,000	1,000,000	1,000,000	1,000,000
1994	1994-1995	1,000,000	1,000,000	1,000,000	1,000,000

MONUMENTS

2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日
1.1	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日
1.2	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日
1.3	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日
1.4	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日	2011 年 12 月 31 日
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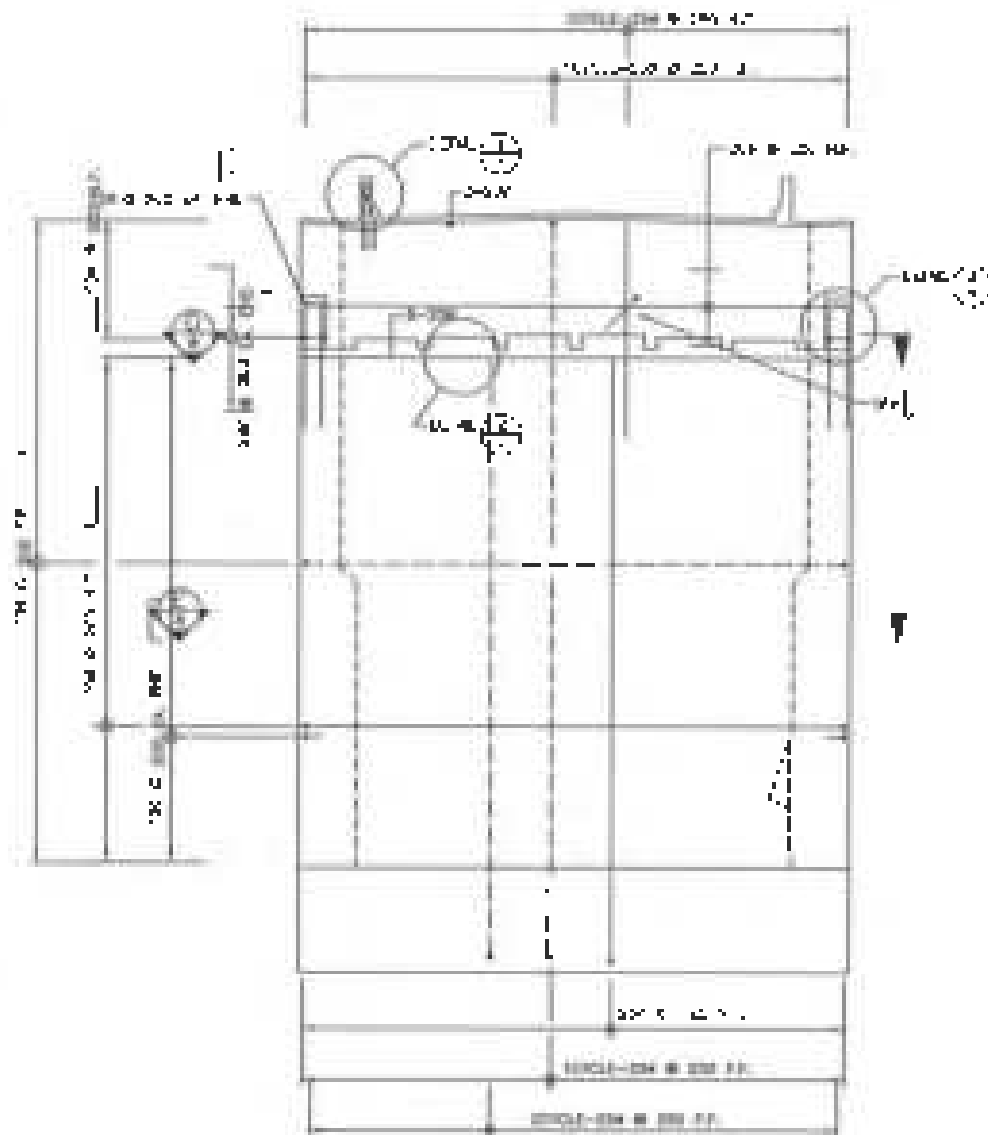




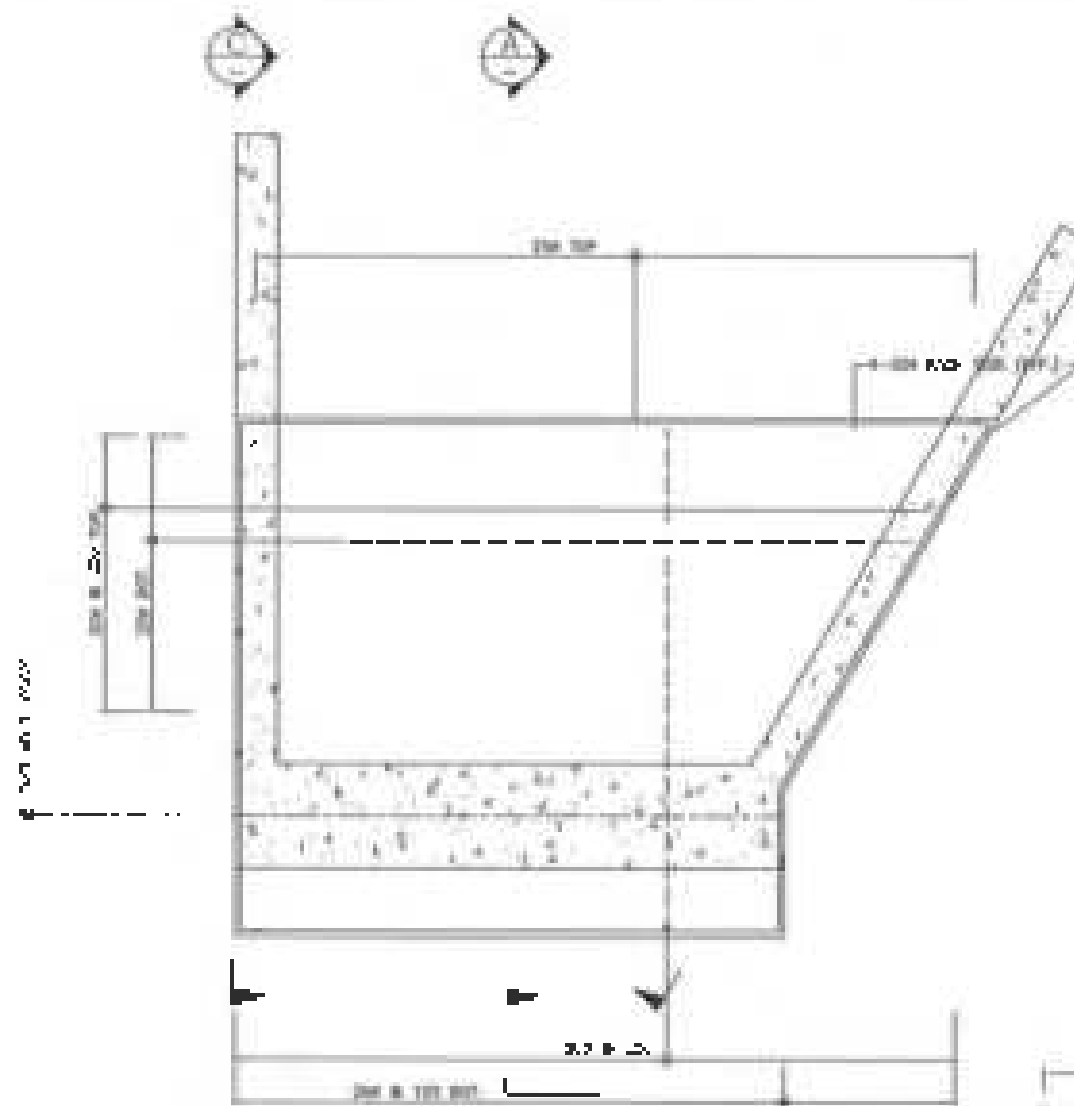
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6	131.500

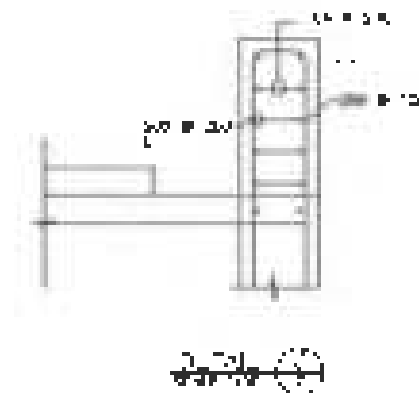
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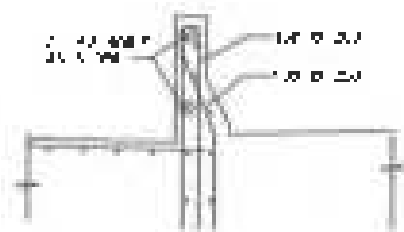
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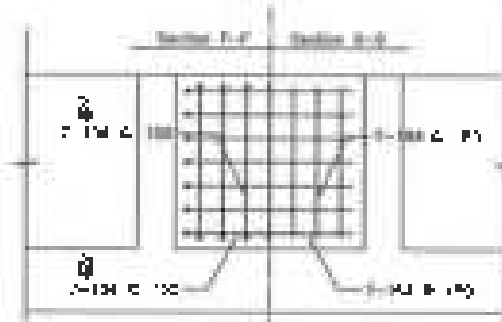
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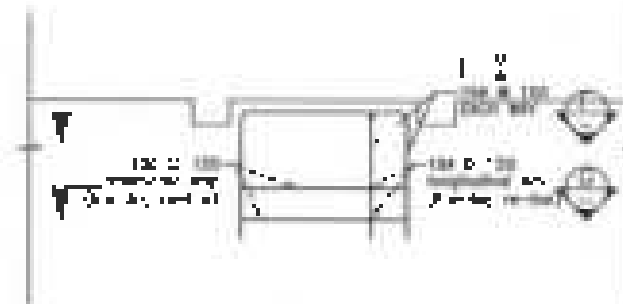
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DETAIL
SCALE: 1/20

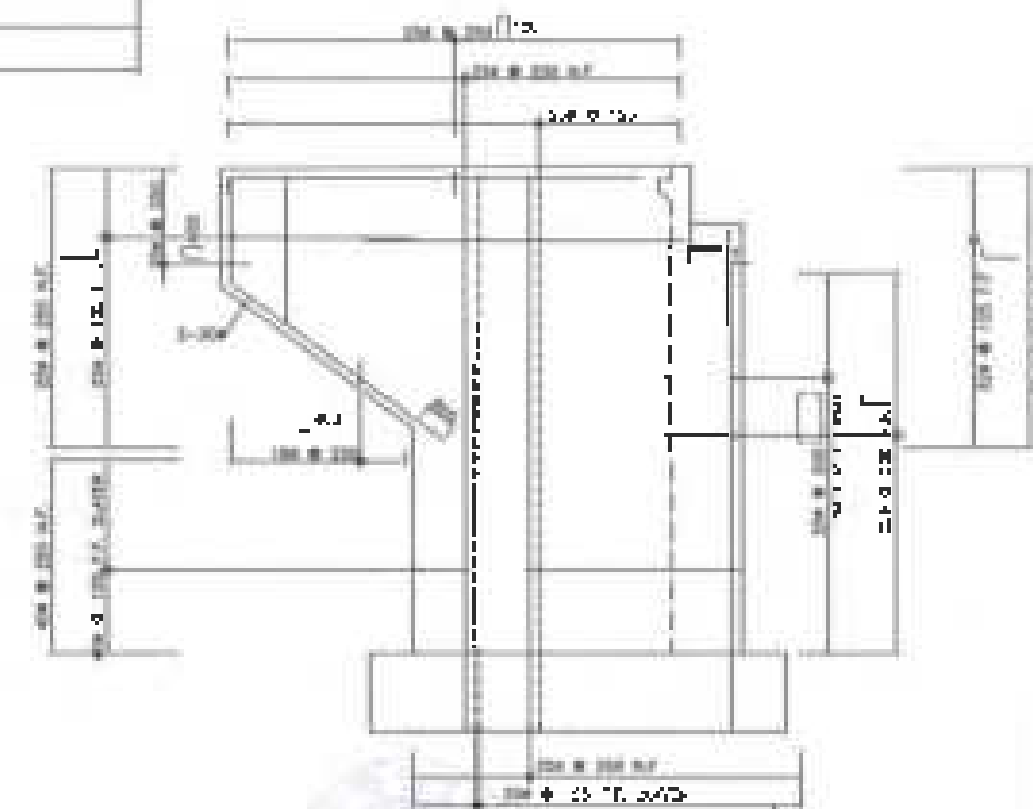


DETAIL
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ELEVATION
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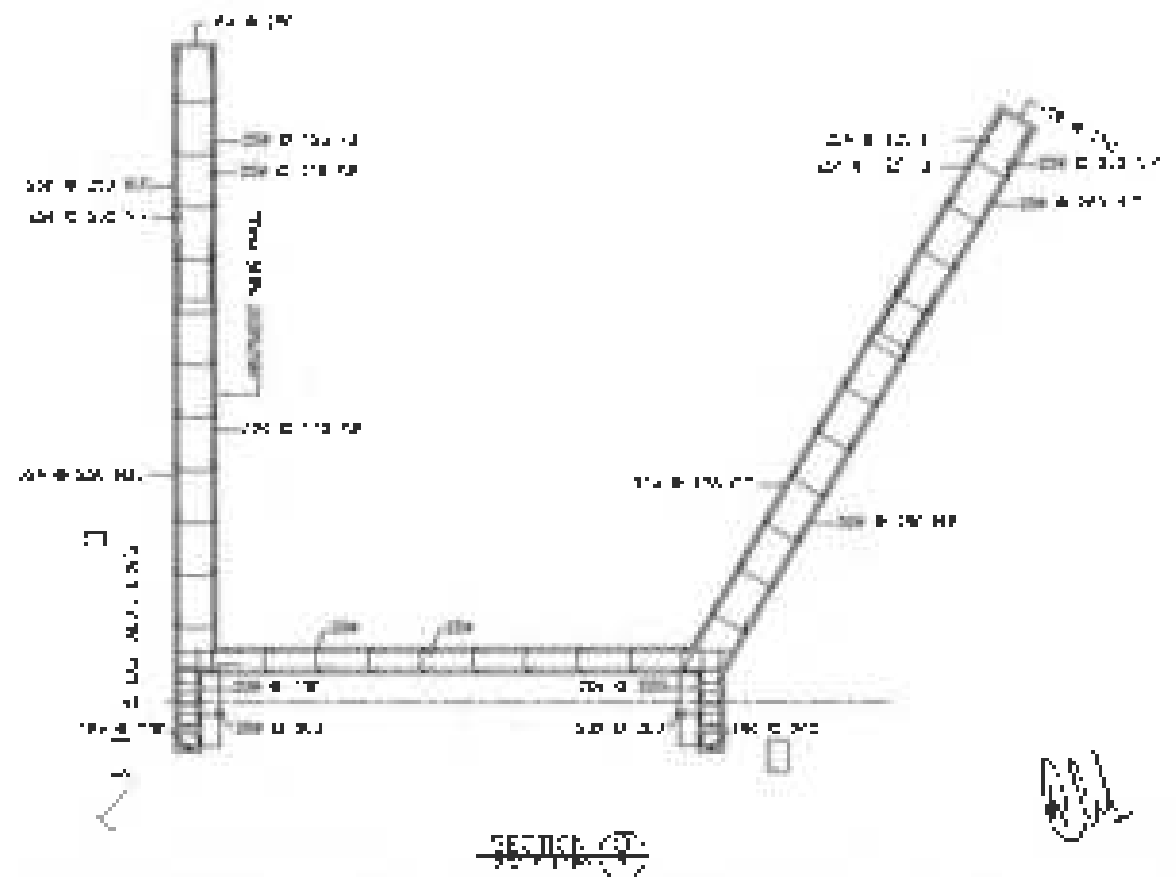
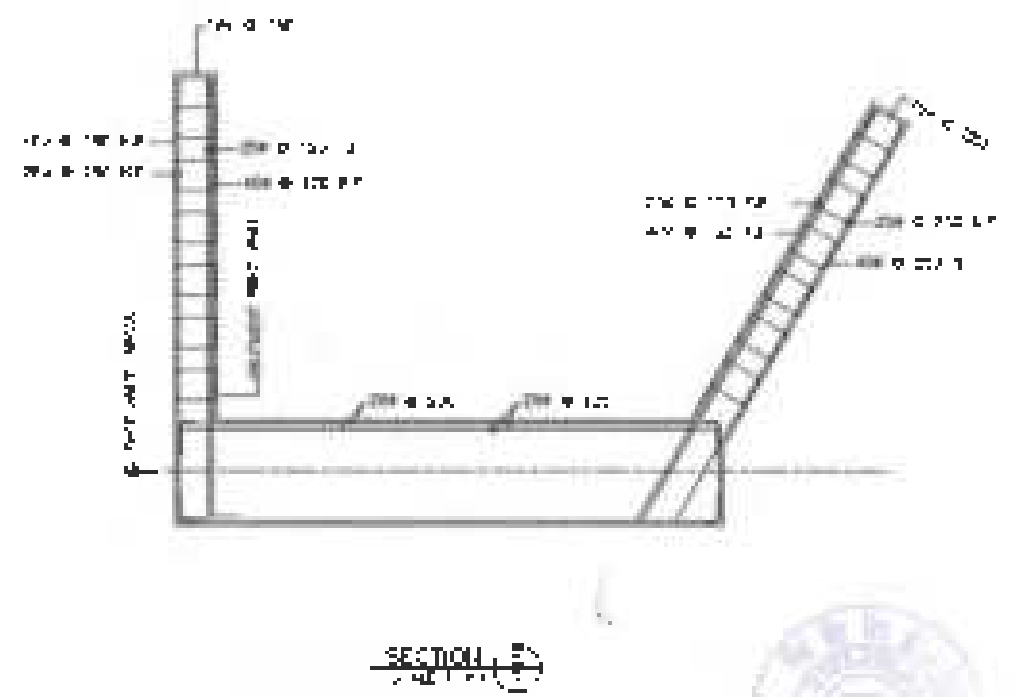
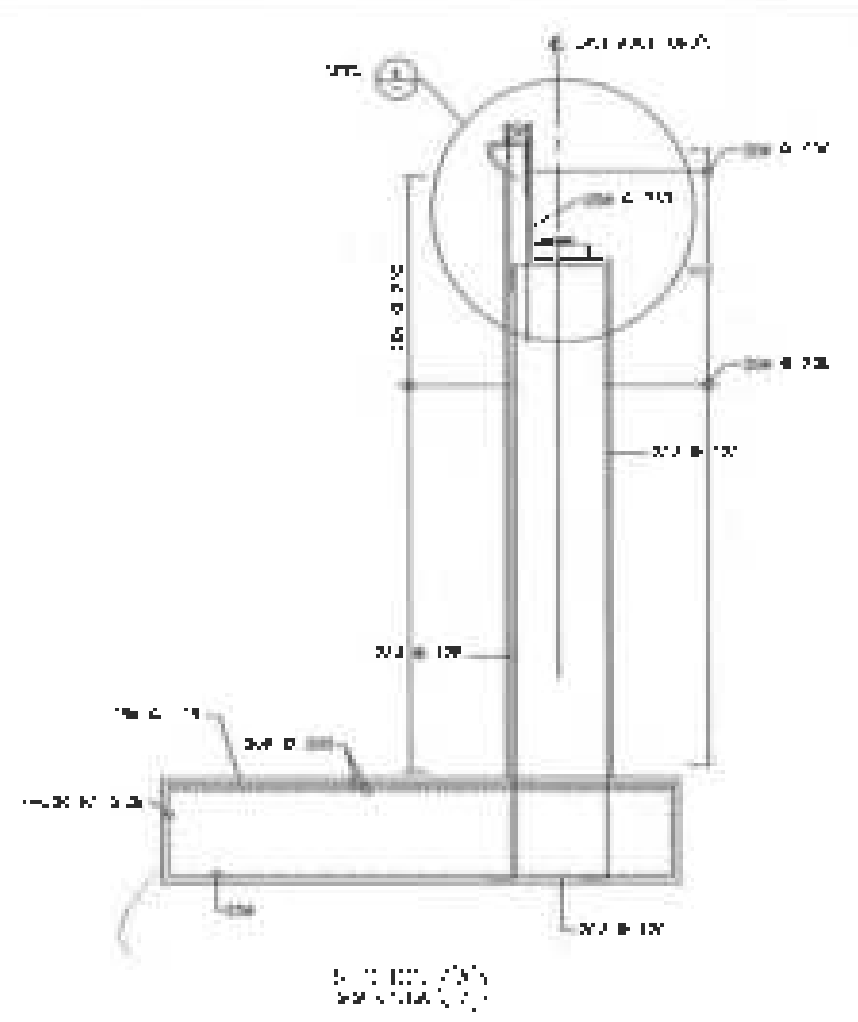
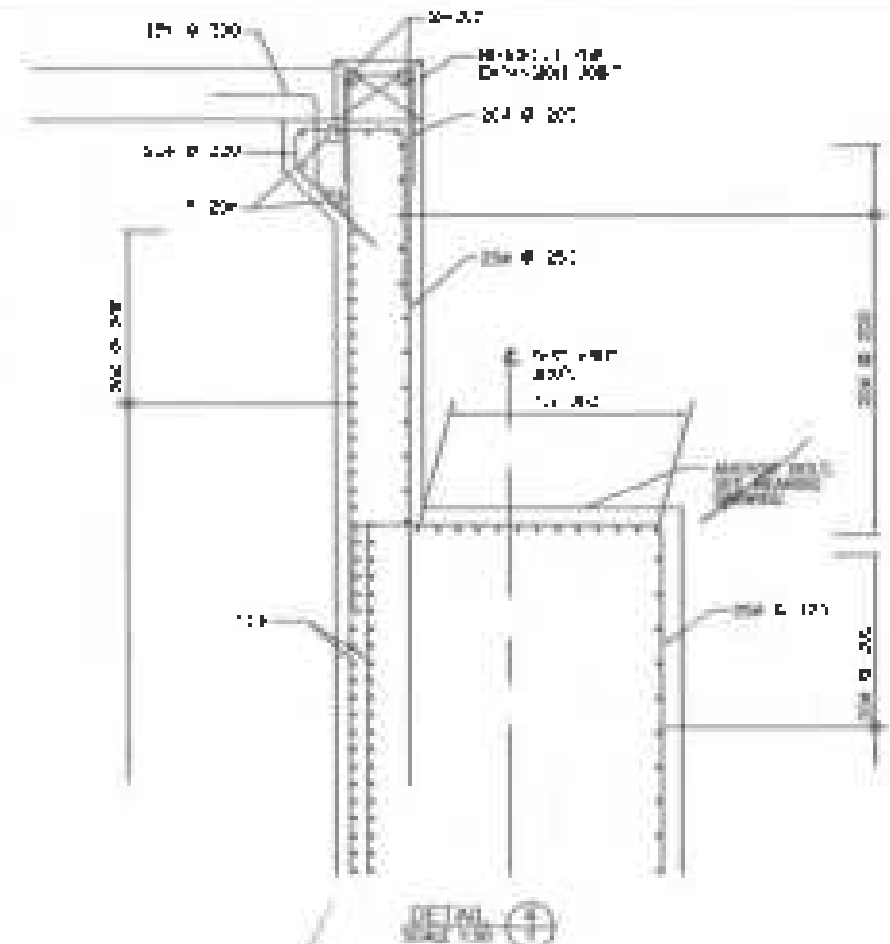
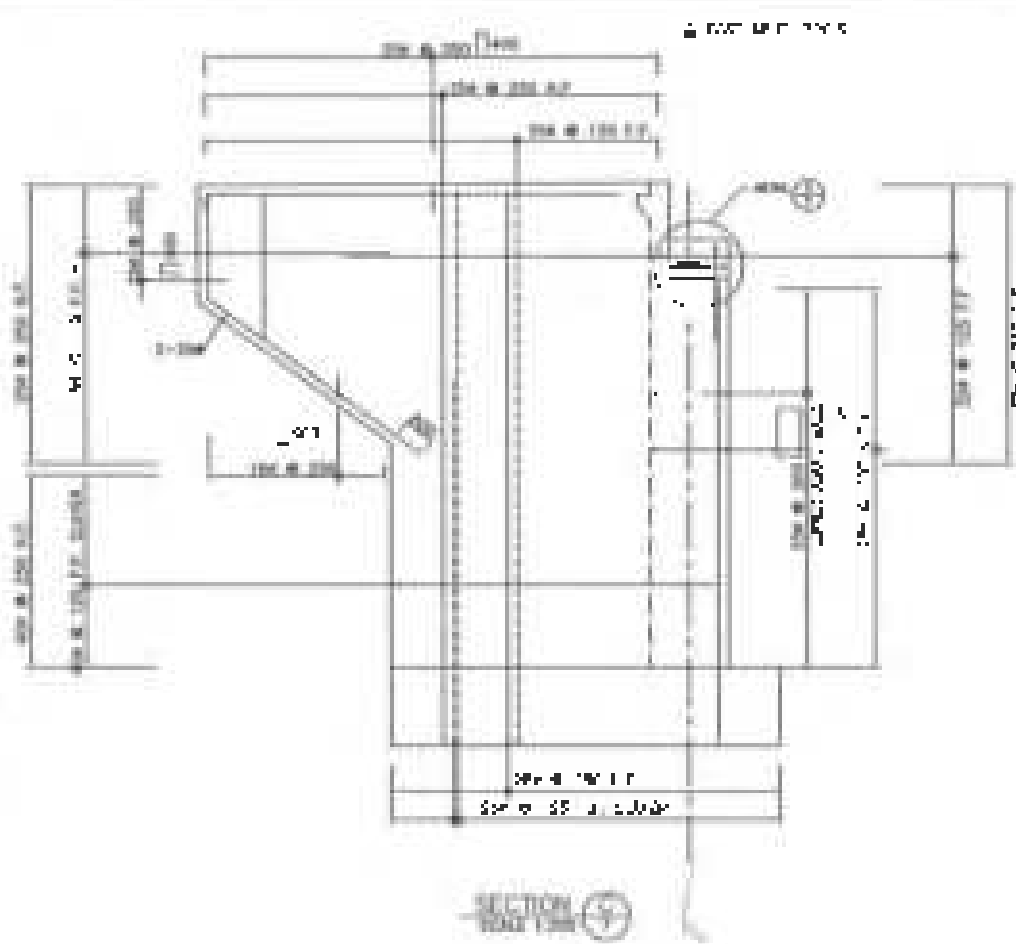
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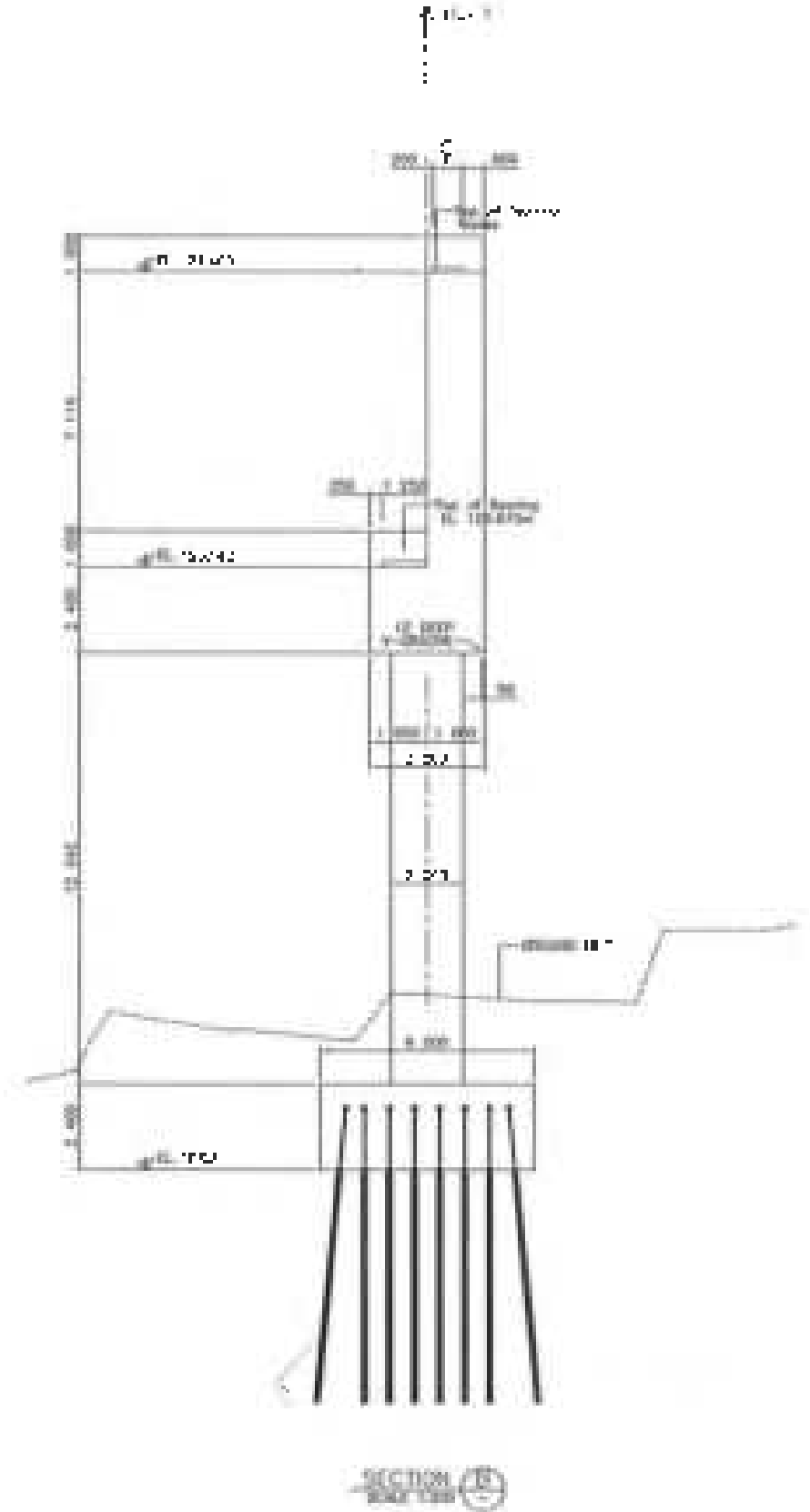
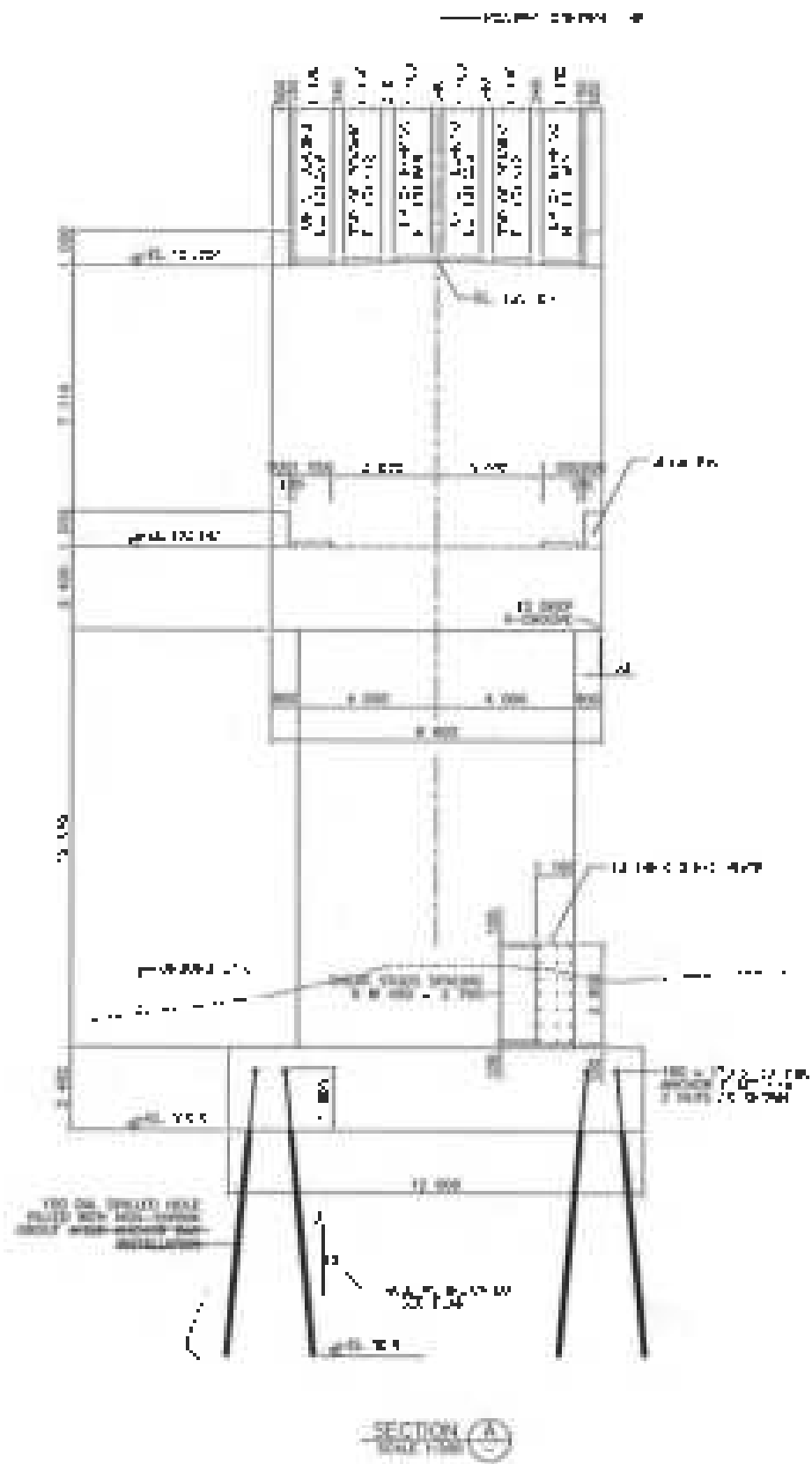
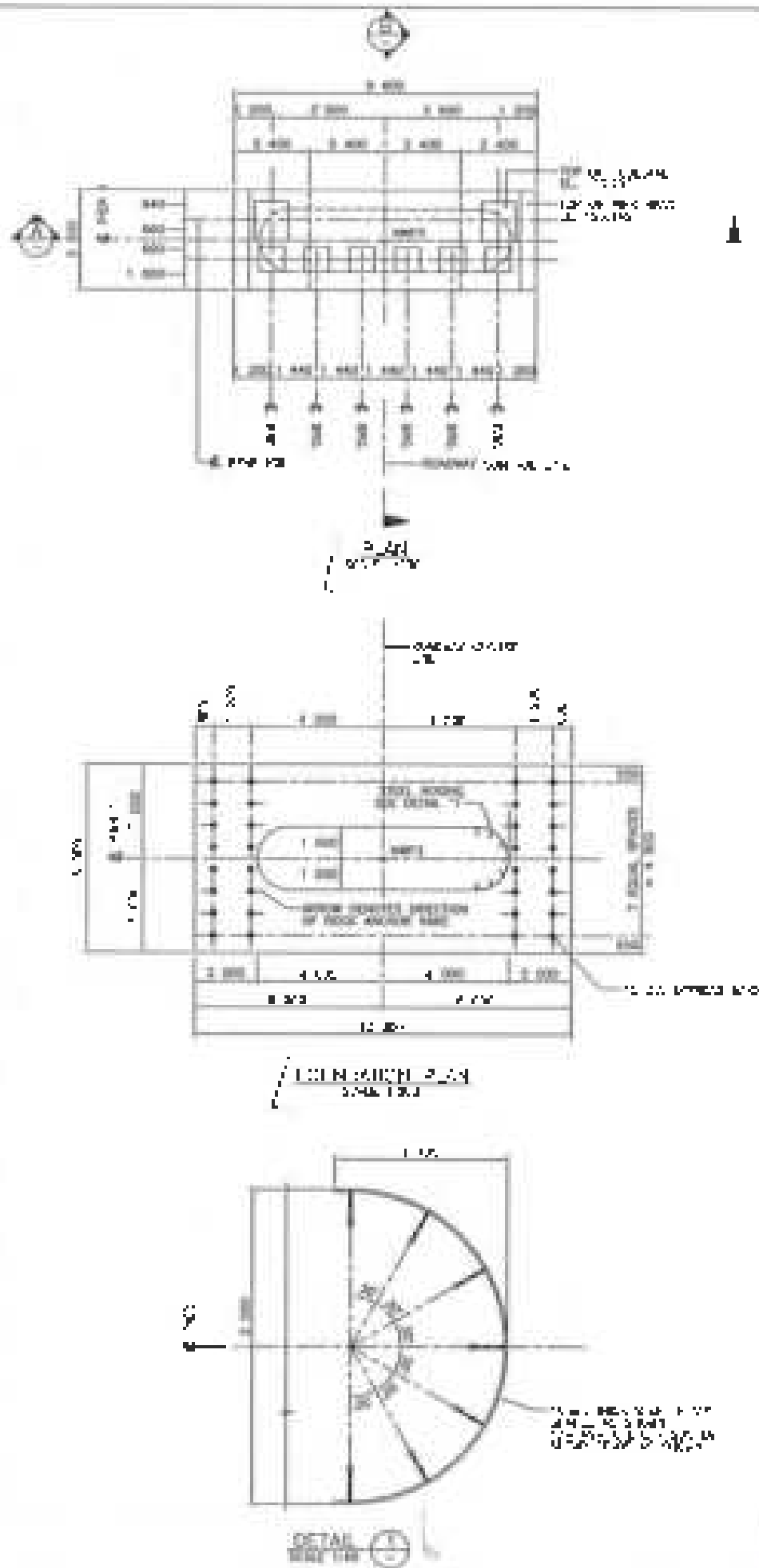
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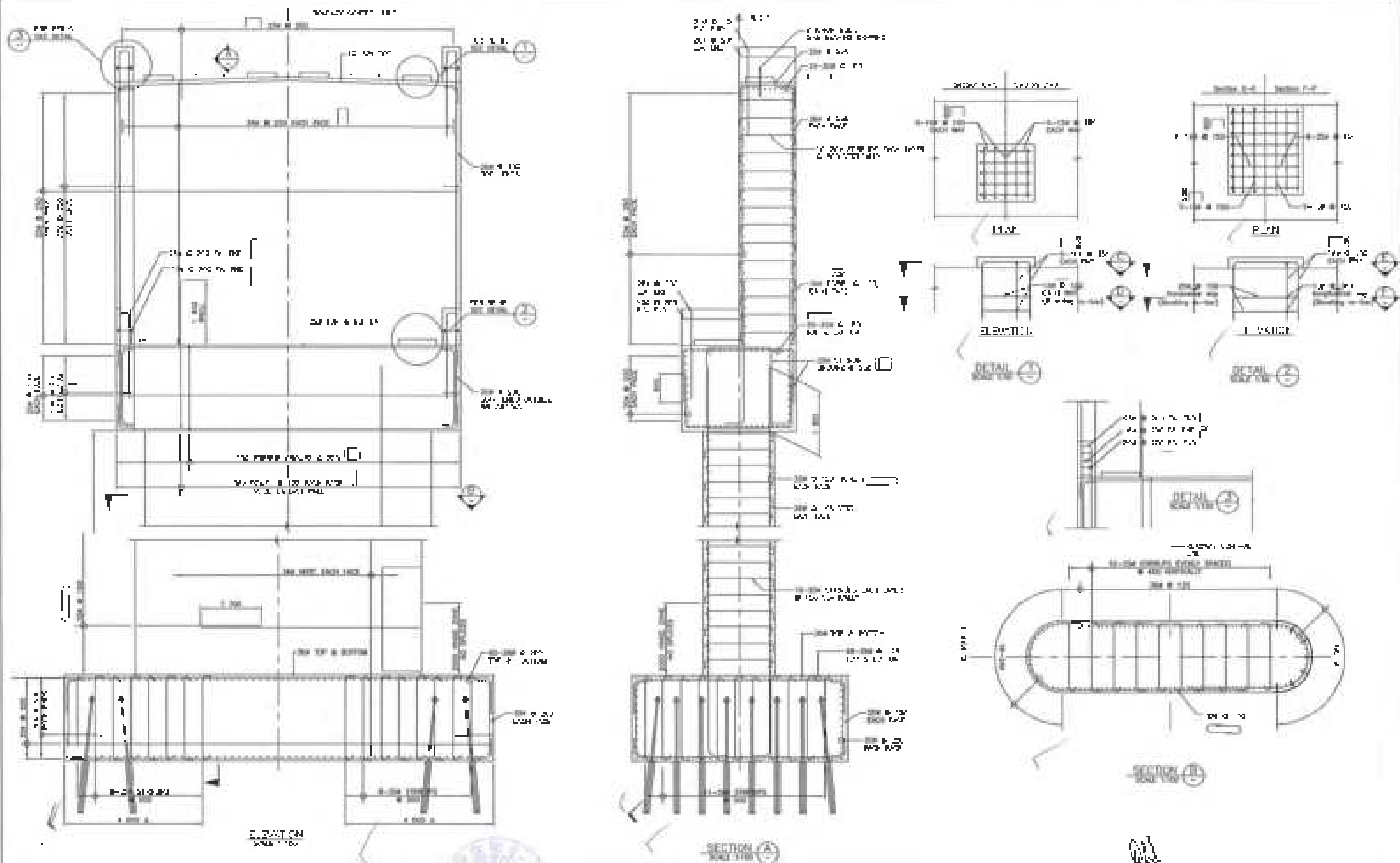
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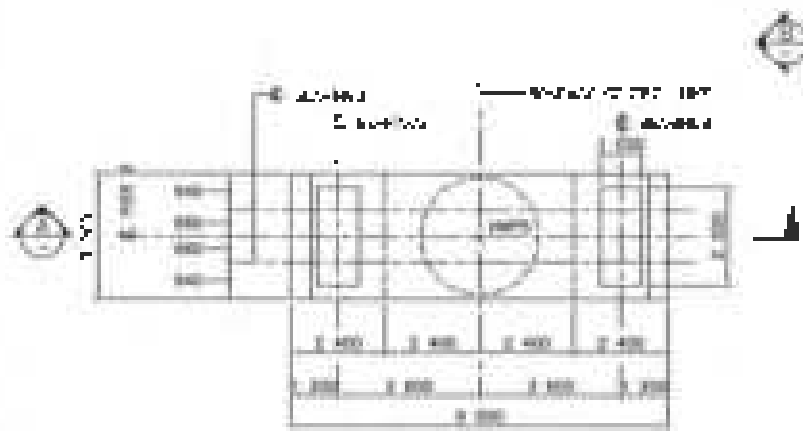
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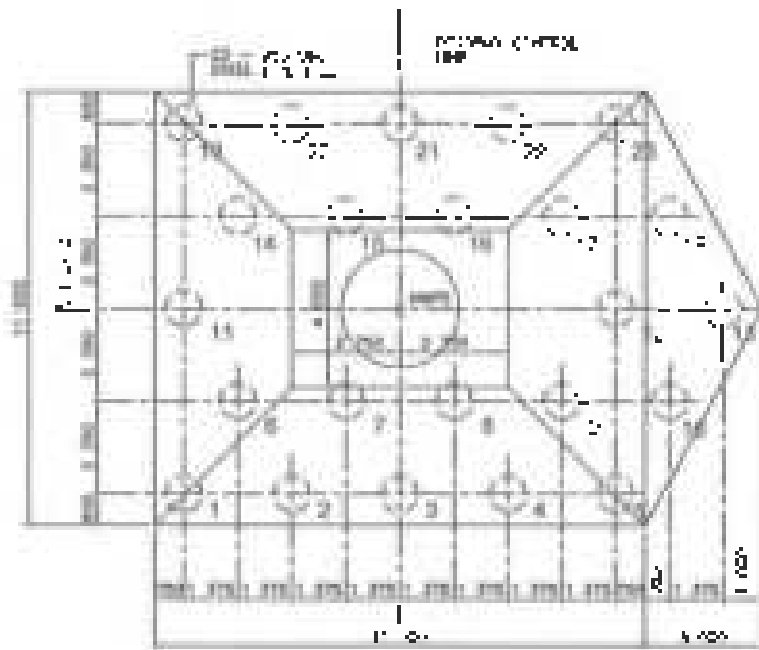
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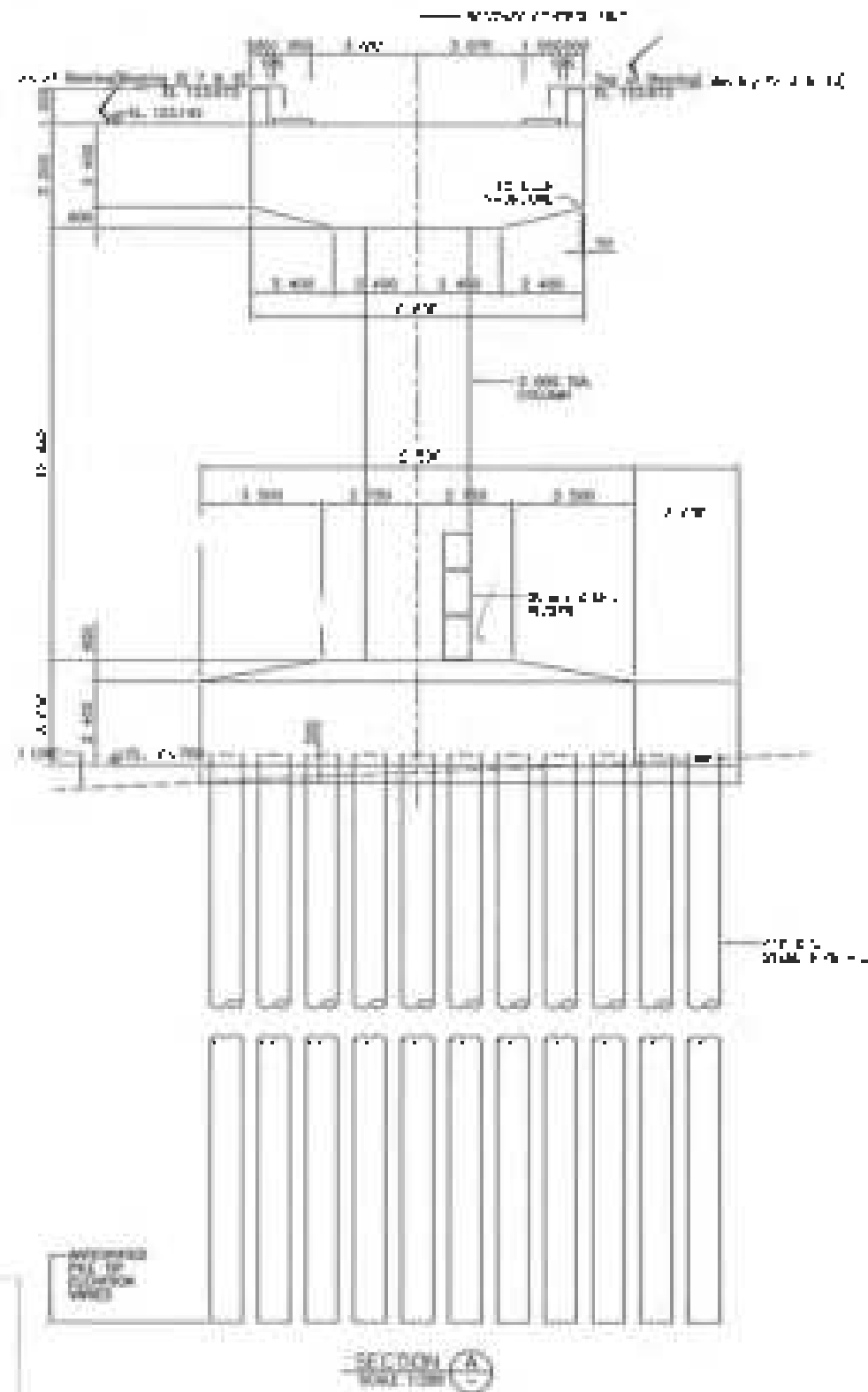


PLAN

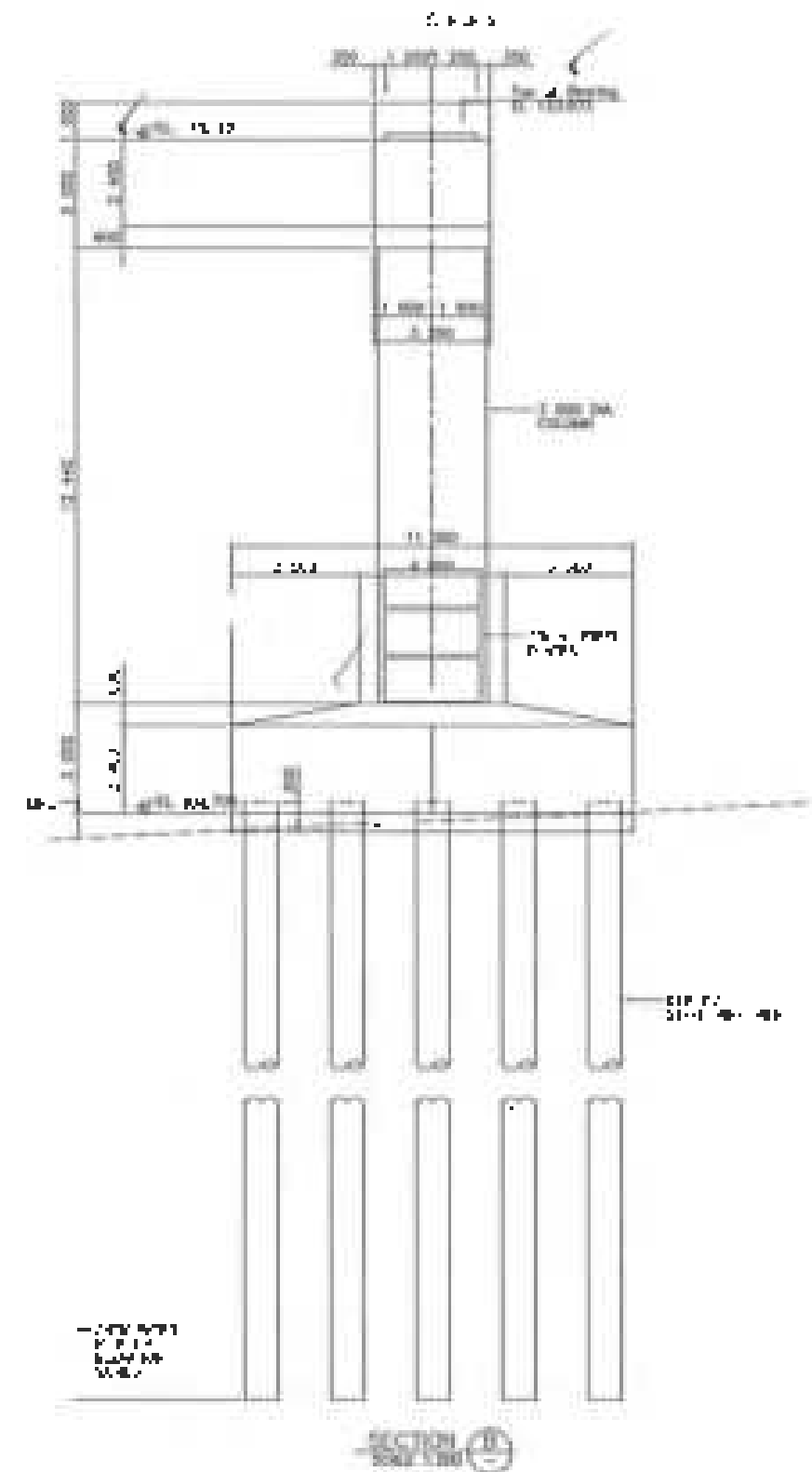


PLAN

NO.	REMARKS	DATE
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2	REVISION	10/10/2018
3	REVISION	10/10/2018
4	REVISION	10/10/2018



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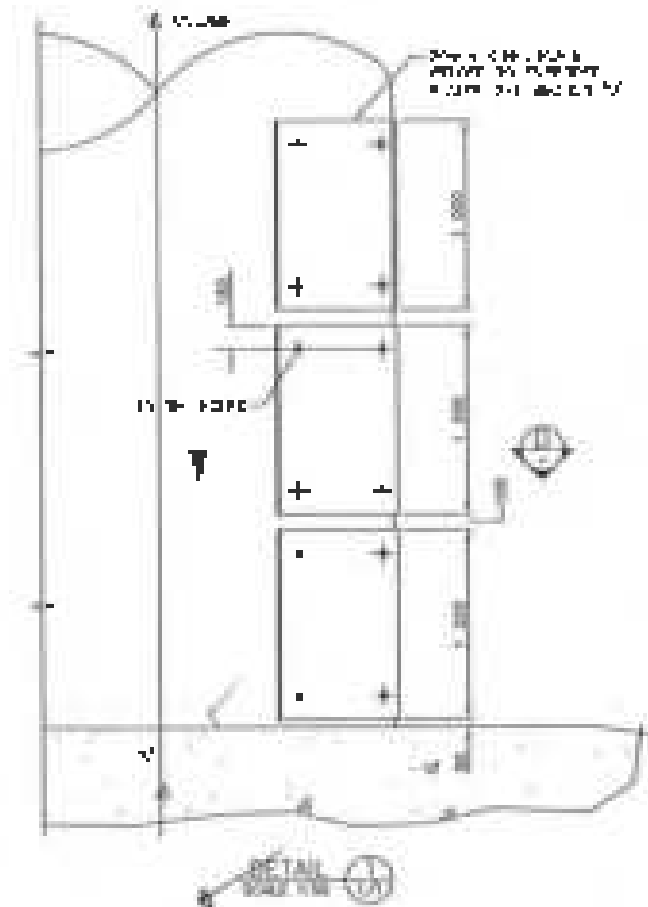
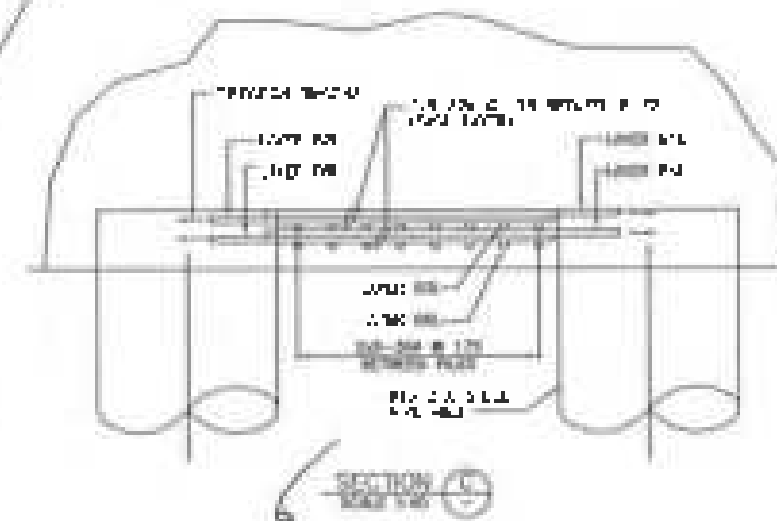
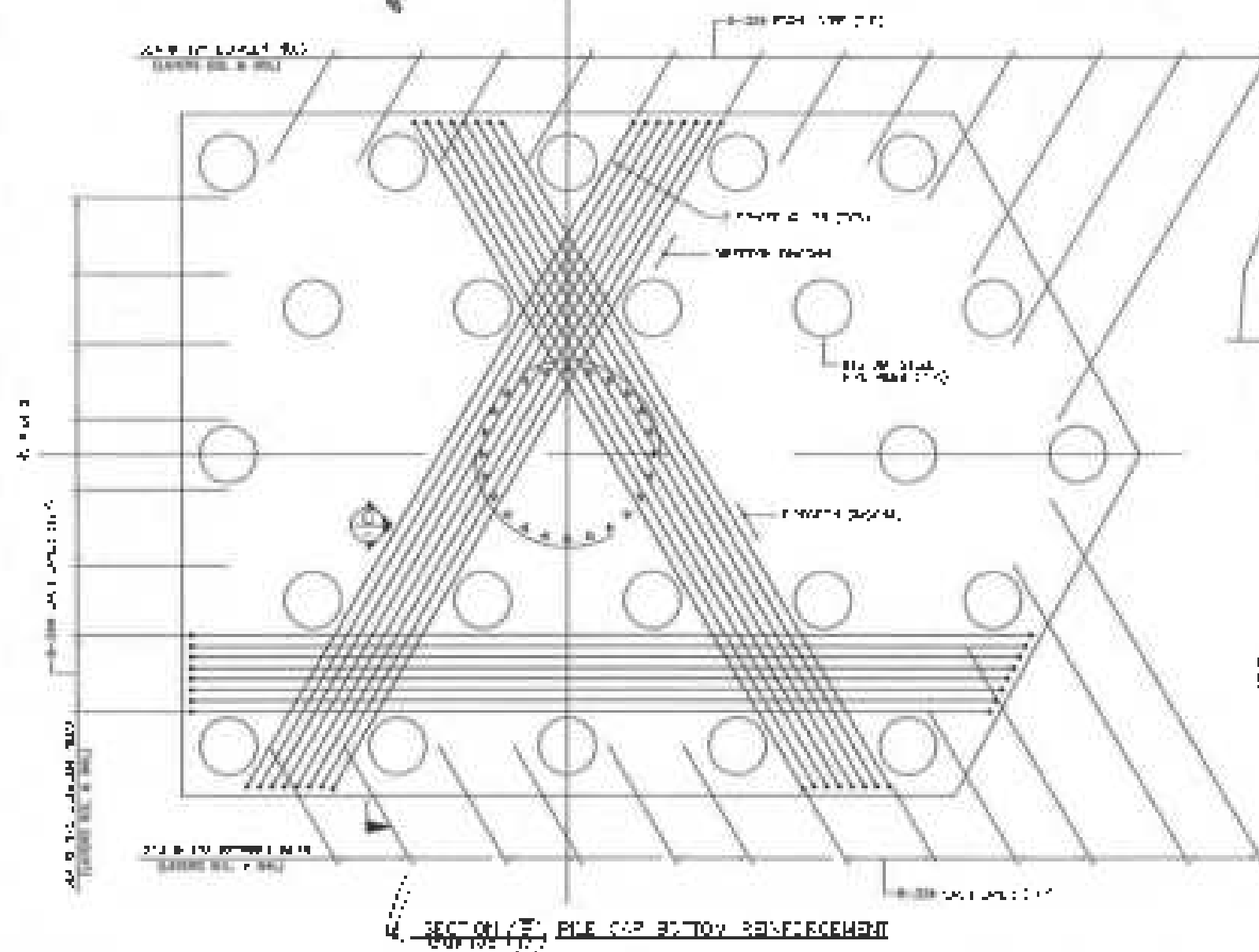
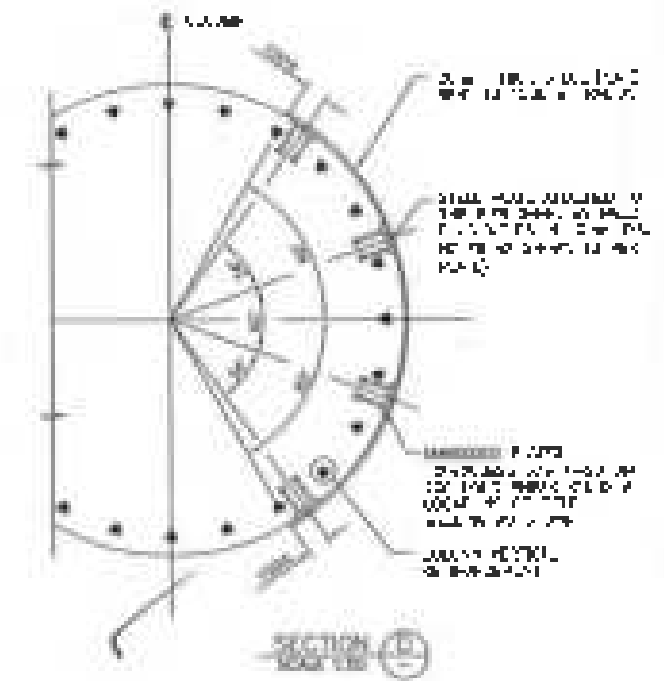
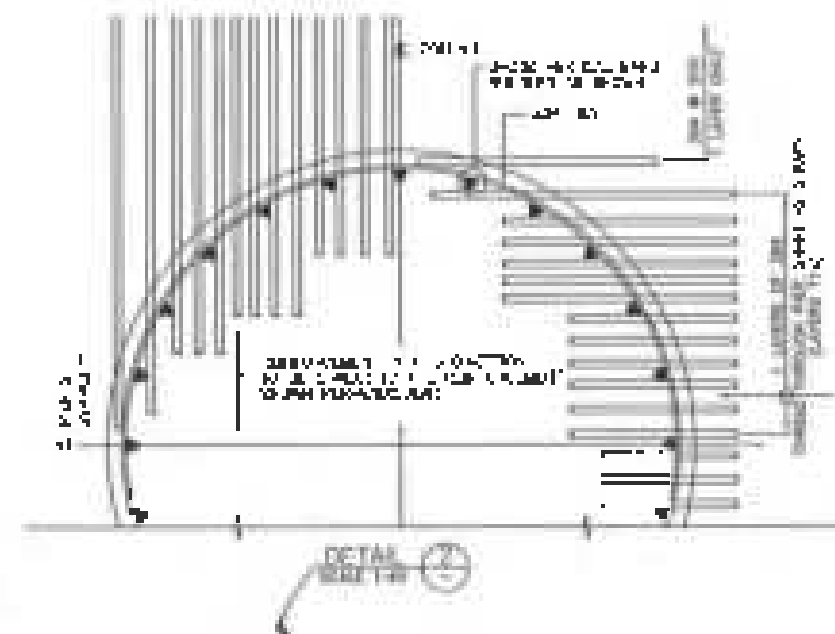
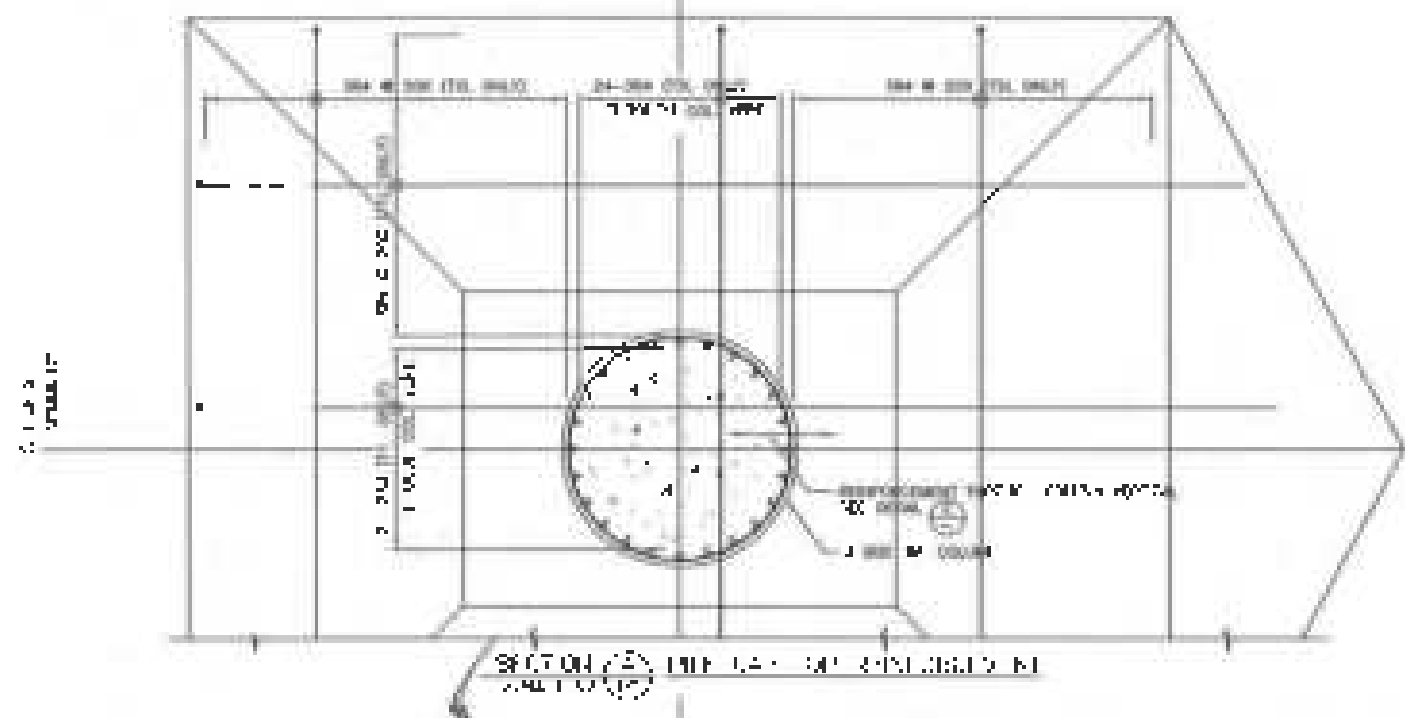


SECTION

PROJECT: KOSI BRIDGE DEPARTMENT OF ROADS KATHMANDU, NEPAL 10/10/2018	CONSULTANT: Korea Engineering Consultant Corp.	CONTRACTOR: CTCE-KALIKA JV KATHMANDU, NEPAL	CONTRACT DESCRIPTION: CONSTRUCTION OF KOSI BRIDGE AND APPROACHES (CHAFARA)	DRAWING NO.: AS BUILT DRAWING P. 10 CONCRETE OUTLINE CHARTER	SCALE: 1:100 DATE: 10/10/2018 BY: [Signature]	NO. OF SHEETS: 10	SHEET NO.: 10	PROJECT NO.: 10	DRAWN BY: 10
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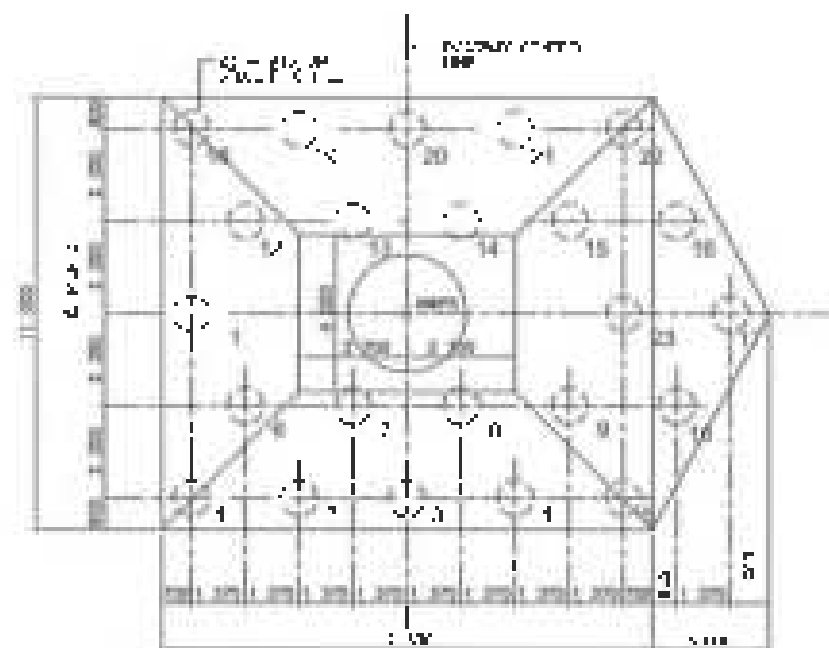


GOVERNMENT OF KERALA PUBLIC WORKS DEPARTMENT DEPARTMENT OF ROADS ROAD DEVELOPMENT SECTION Kozhikode Region P.O. Box 100, Kozhikode-686 001	Consultant Kerala Engineering Consultant Corp.	Project No. CECK-KALUNAJY RAHWATER, KATHIRNAD	Contract No. / Termination CONSTRUCTION OF KOSH BRIDGE AND APPROACHES FOR TARA	Draw No. GENERAL DRAWING PLAN DETAILS OF RULES 84X2000 BUT 10000 SHEET 1 OF 4	Scale	Date	Project CECK-KALUNAJY	Date	

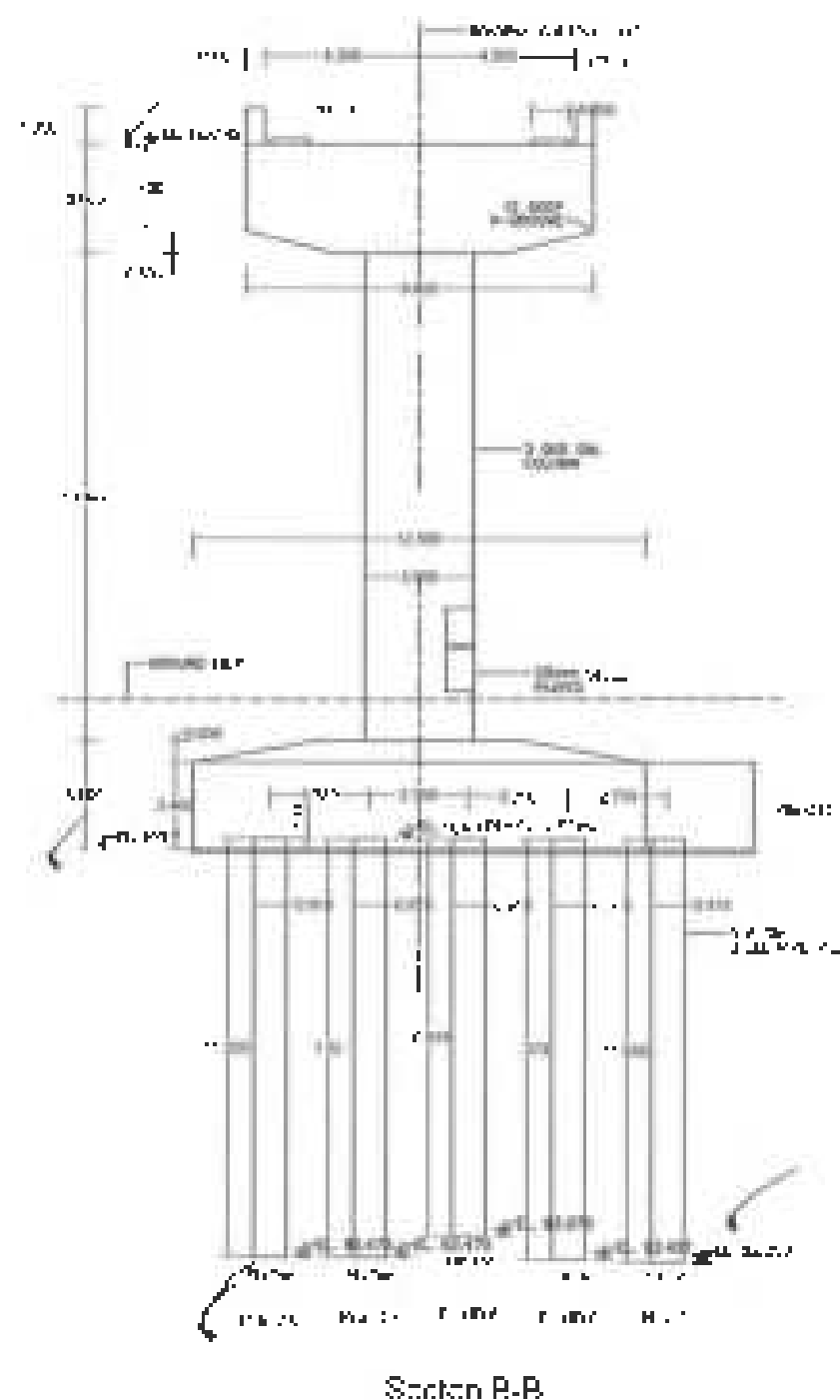
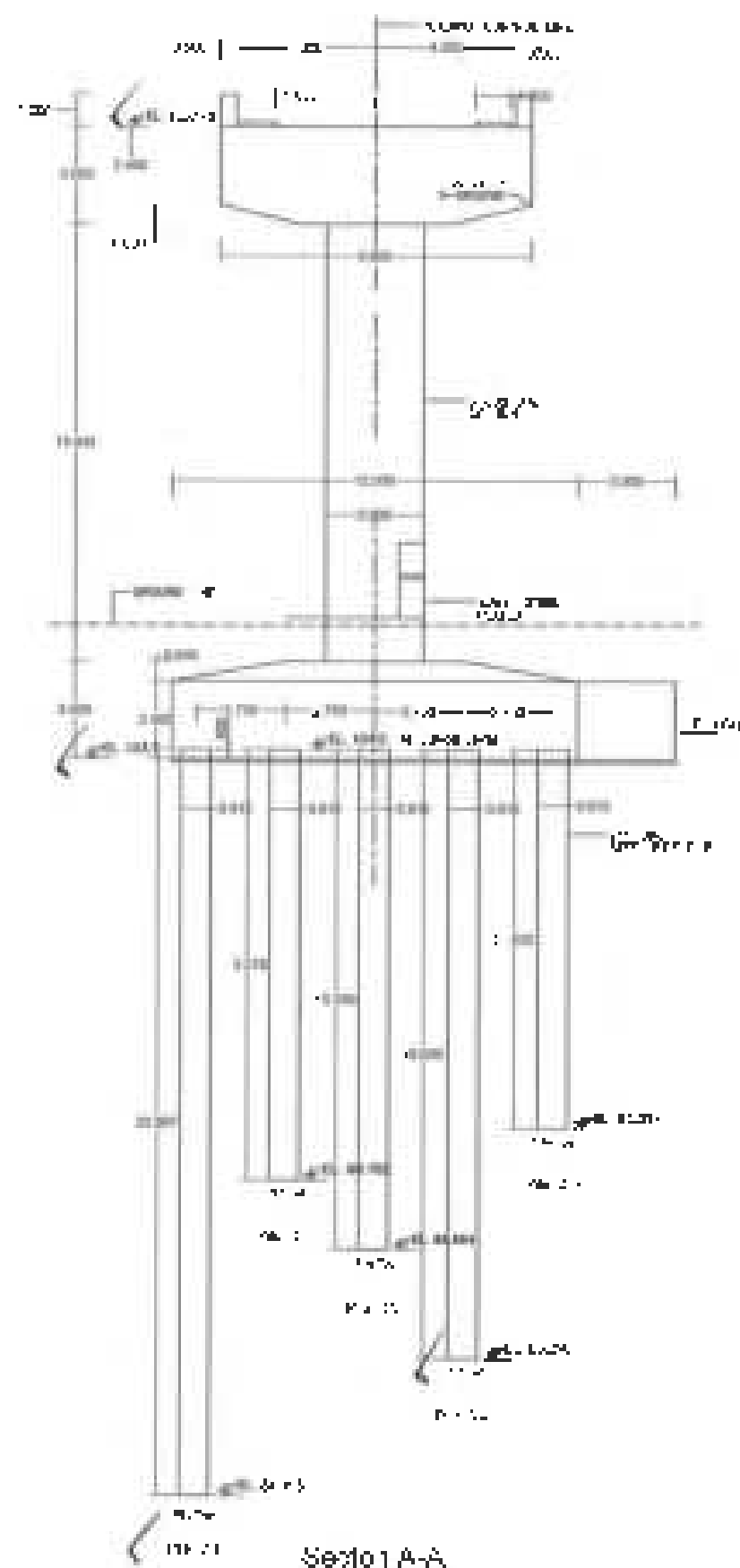
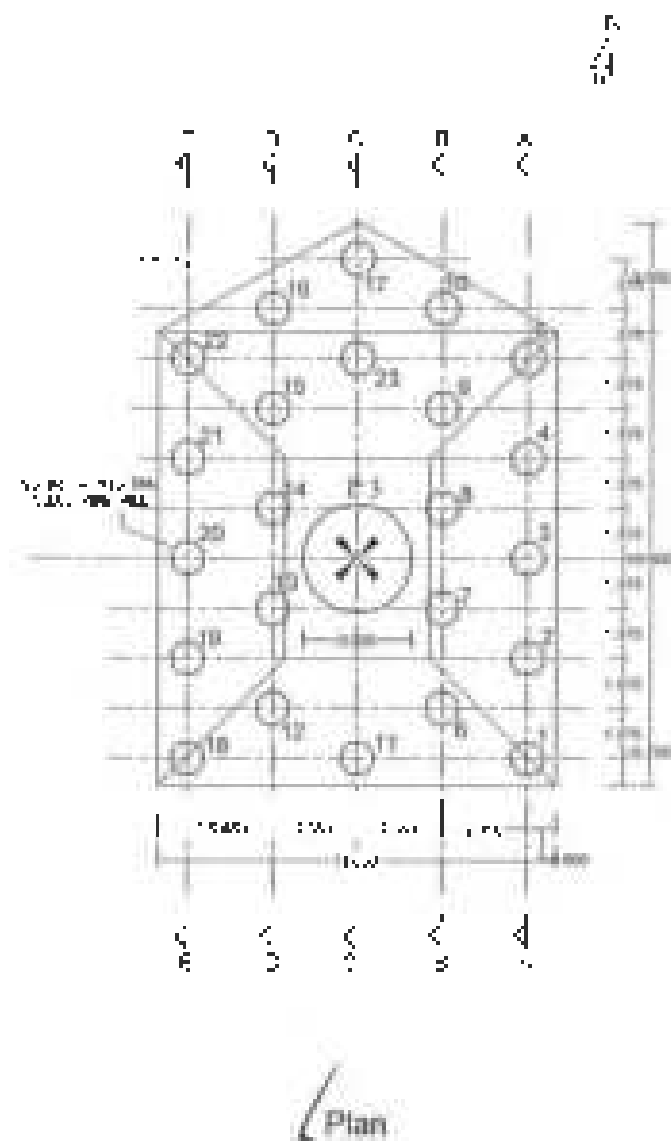


NOTE: THE REINFORCEMENT BAR SHALL BE PROVIDED AS SHOWN IN THE DRAWING.

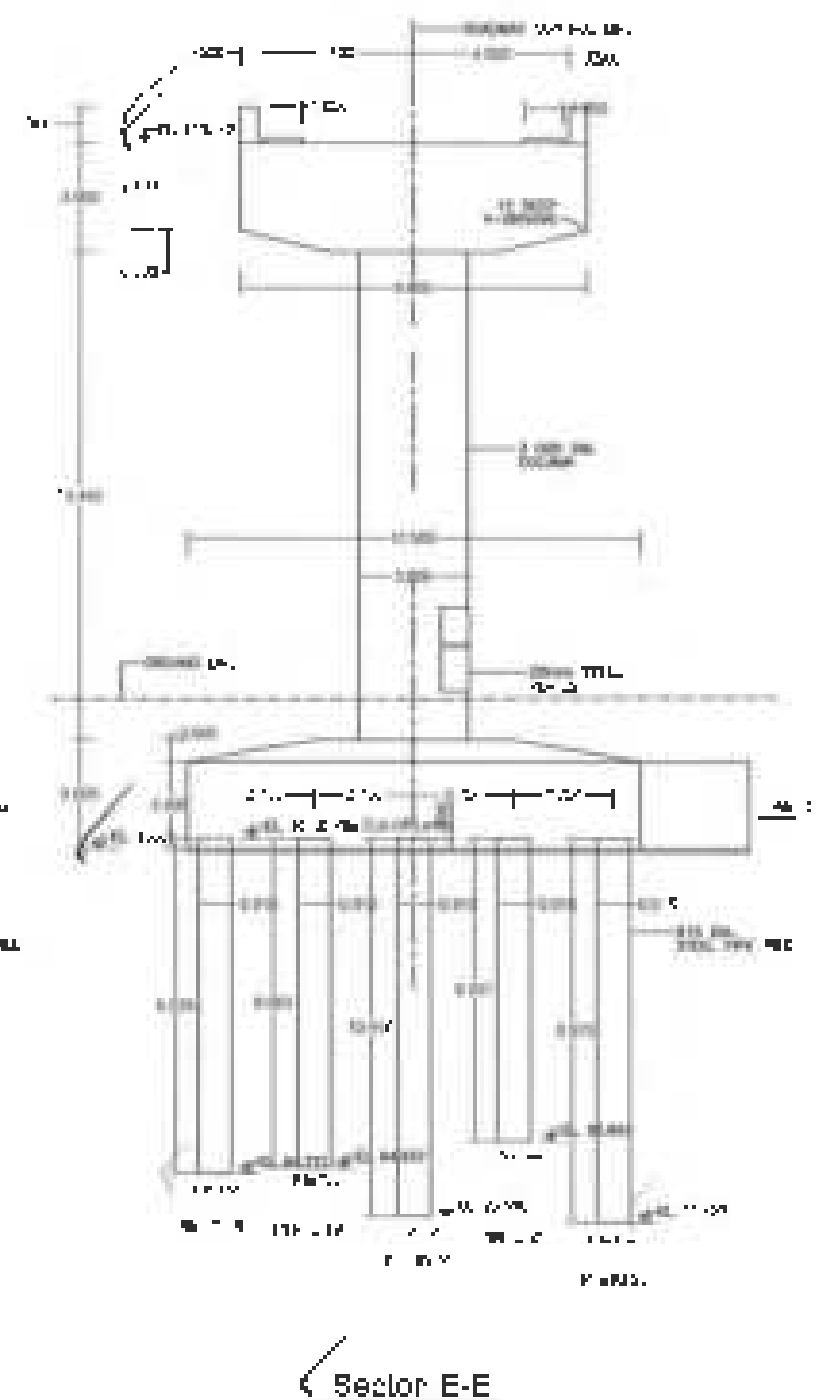
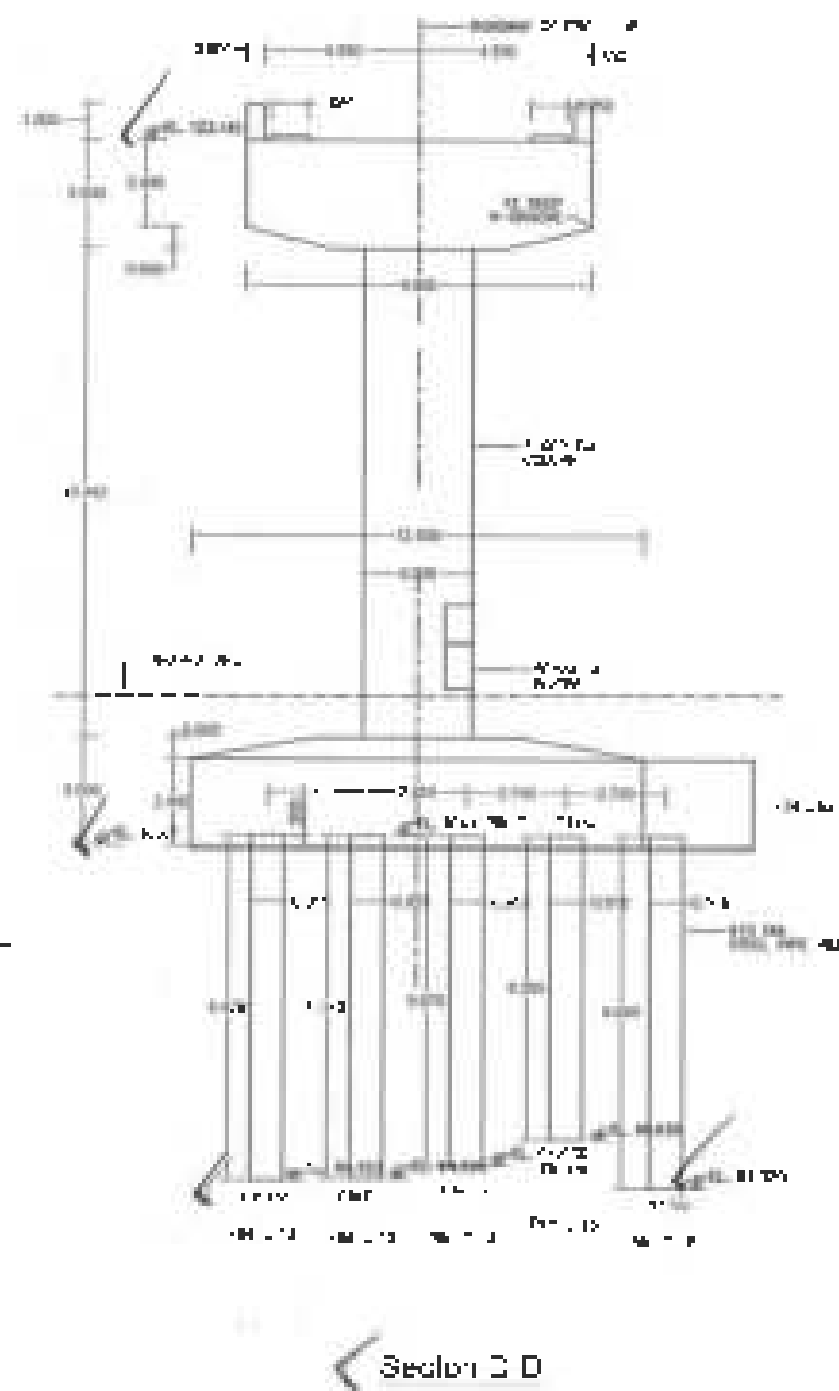
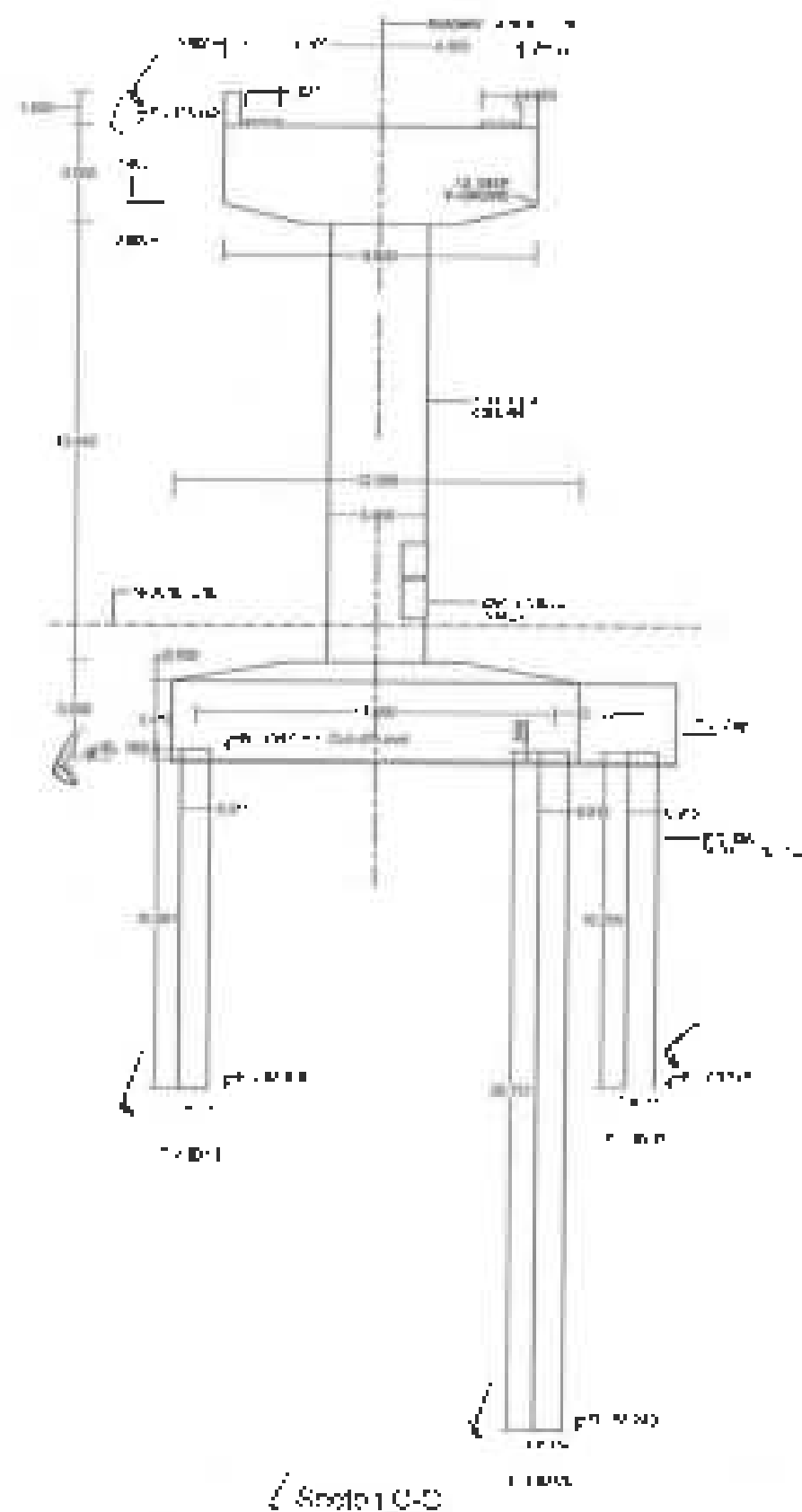
DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] DEPARTMENT OF ROADS ROAD CONSTRUCTION SECTION ADD: [Address] DATE: [Date]	CLIENT: Korea Engineering Consultant Corp.	PROJECT: CTCE KALINA IV LOCATION: BALIYAWAN, KUTUBUNDAI	CONTRACT NO: [Contract No.] CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA ;	SCALE: 1:100 FIGURE: [Figure No.] REVISIONS: [Revisions]	DATE: [Date]	BY: [Signature]	DATE: [Date]	NO. OF SHEETS: [Number]	PAGE: 13
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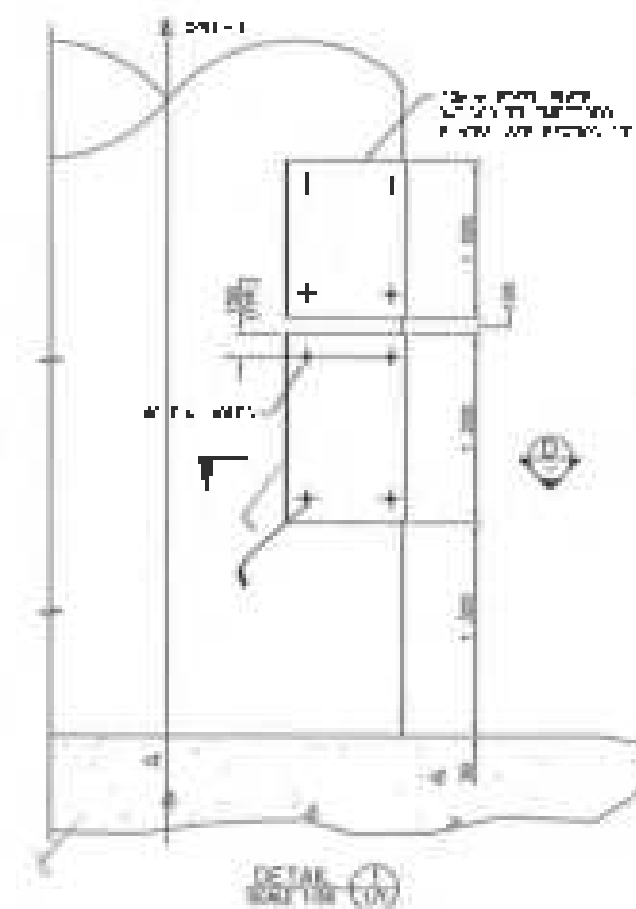
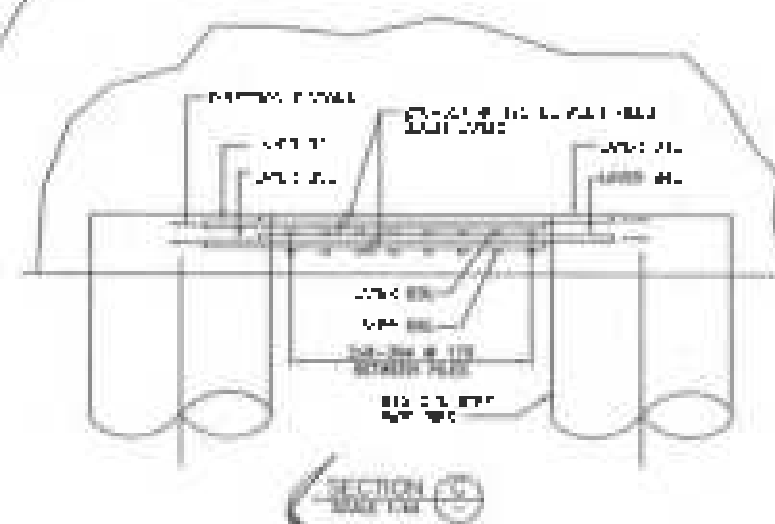
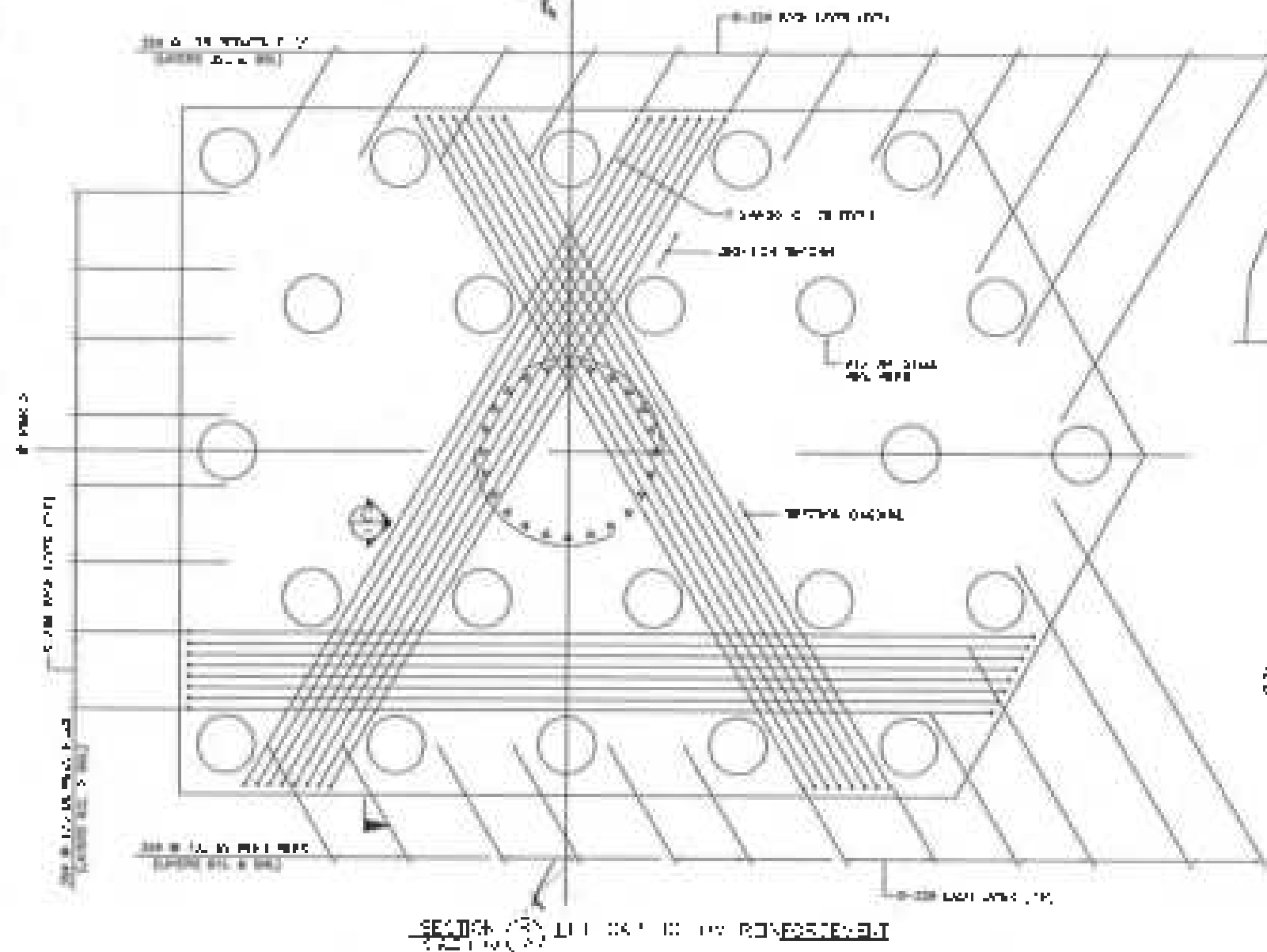
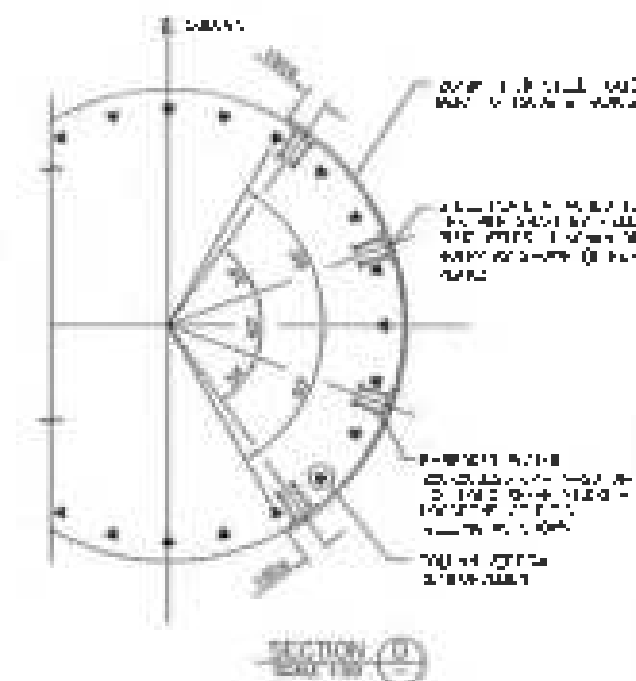
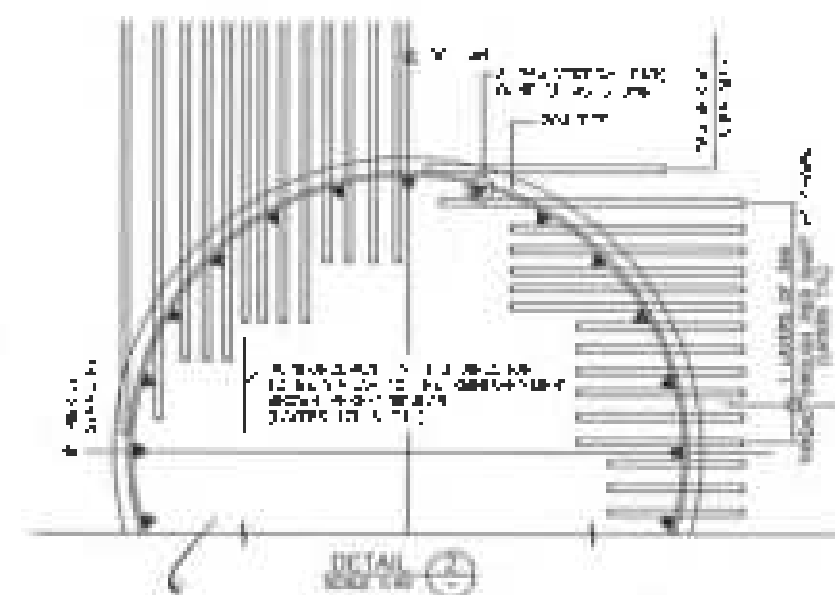
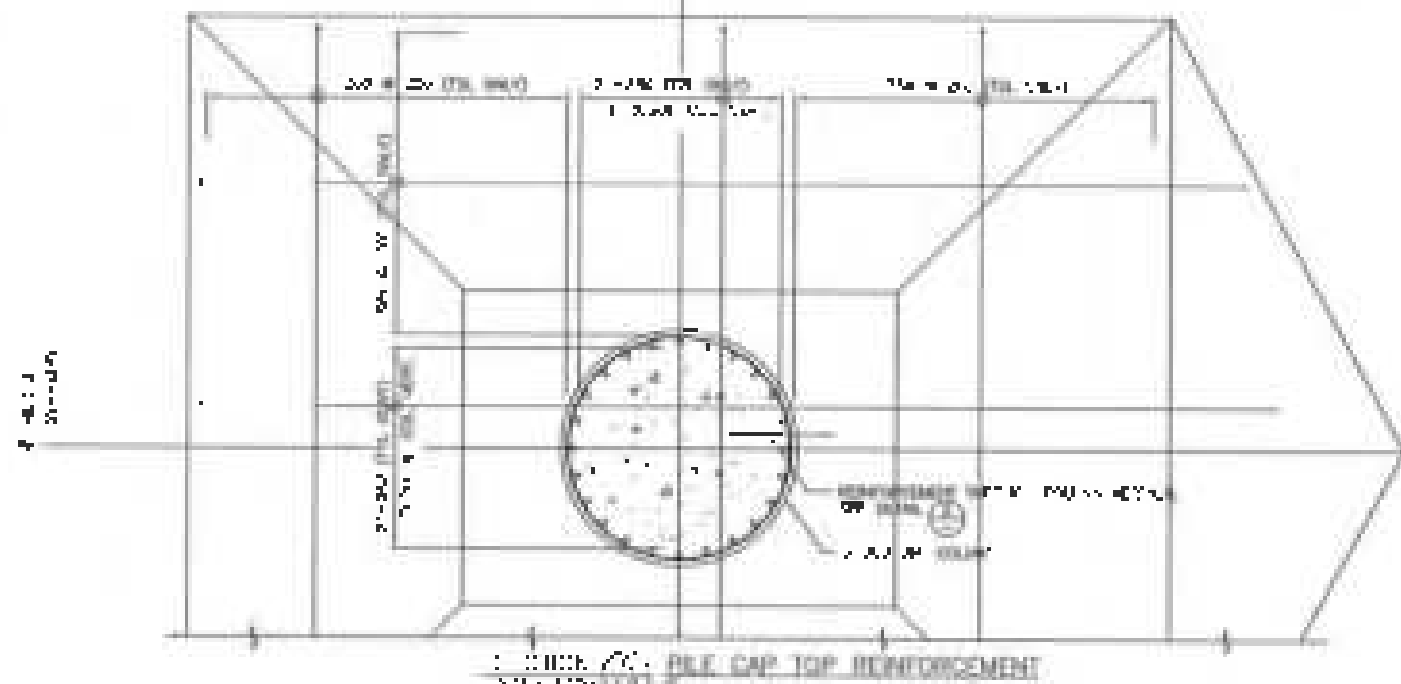


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4	OFFICE 0004	345678901	TYPE D	ACTIVE	25.0%
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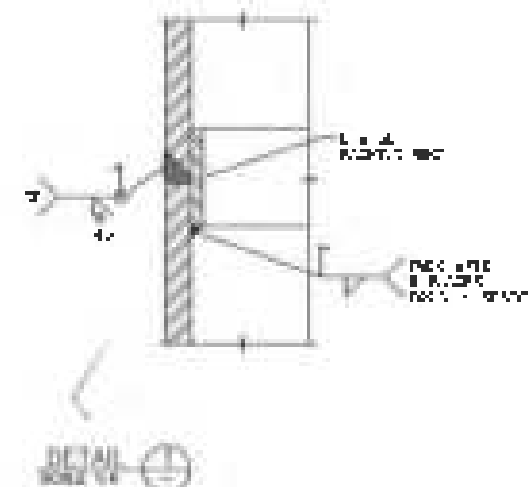
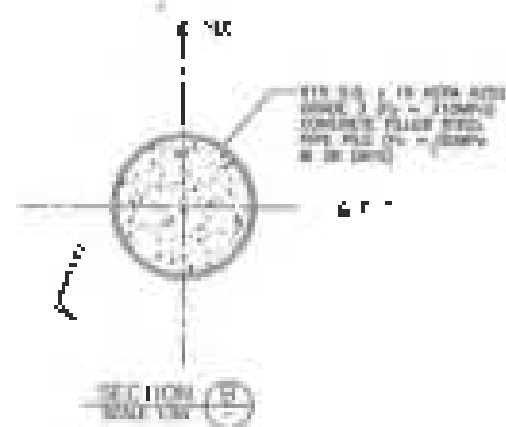
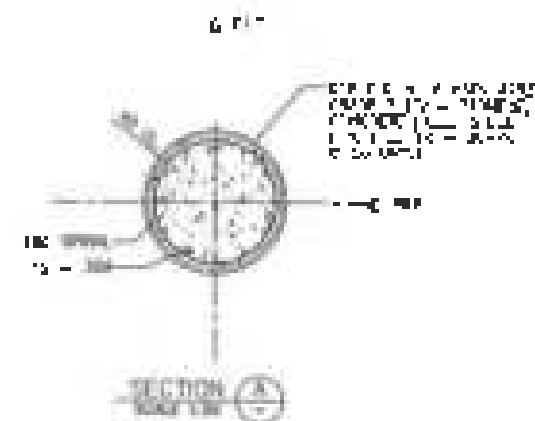
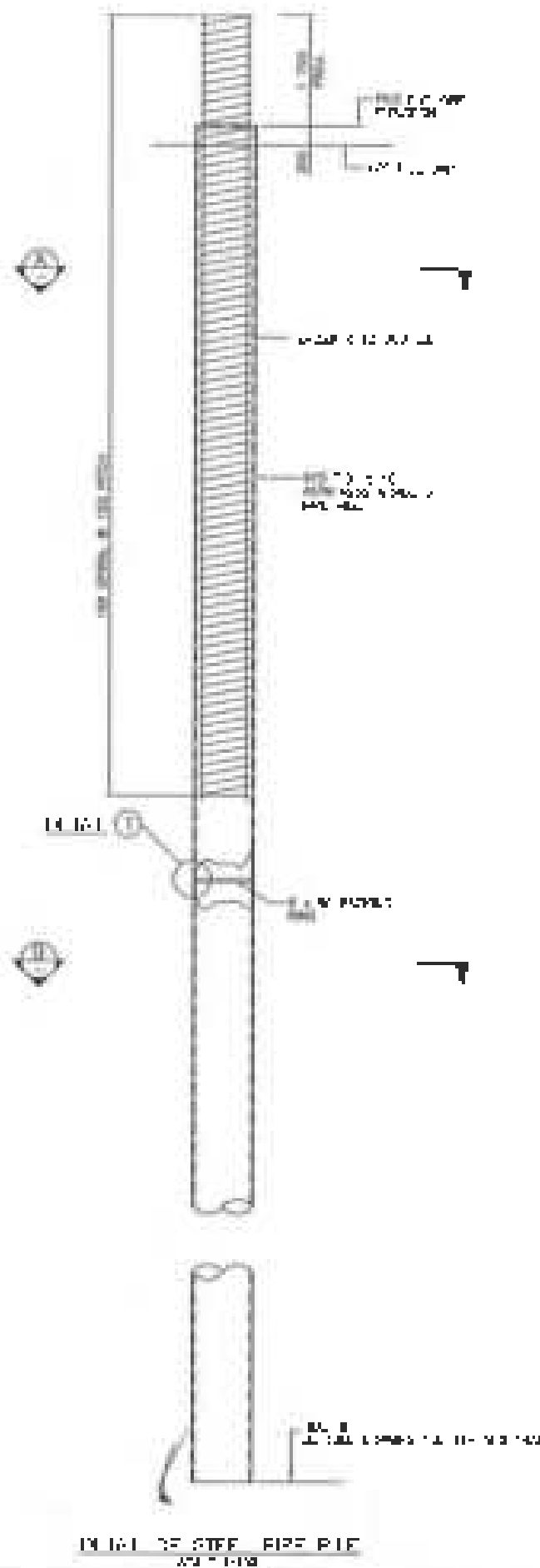


MINISTRY OF TRANSPORTATION DEPARTMENT OF ROADS CONSTRUCTION SECTION KATHMANDU	Consultant Korea Engineering Consultant Corp.	Project Name CTOL-KALIKA IV RAILWAY, KATHMANDU	Contract No. 9-24 (2014) CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	Scale of Drawing AS SHOWN DETAILS OF STRUCTURE AS PER THE SPECIFICATION	Revision 1.0 2.0 3.0	Drawn by Checked by Approved by	Date 2014.10.10	Project No. AS PER DB	Sheet No. 1 of 1
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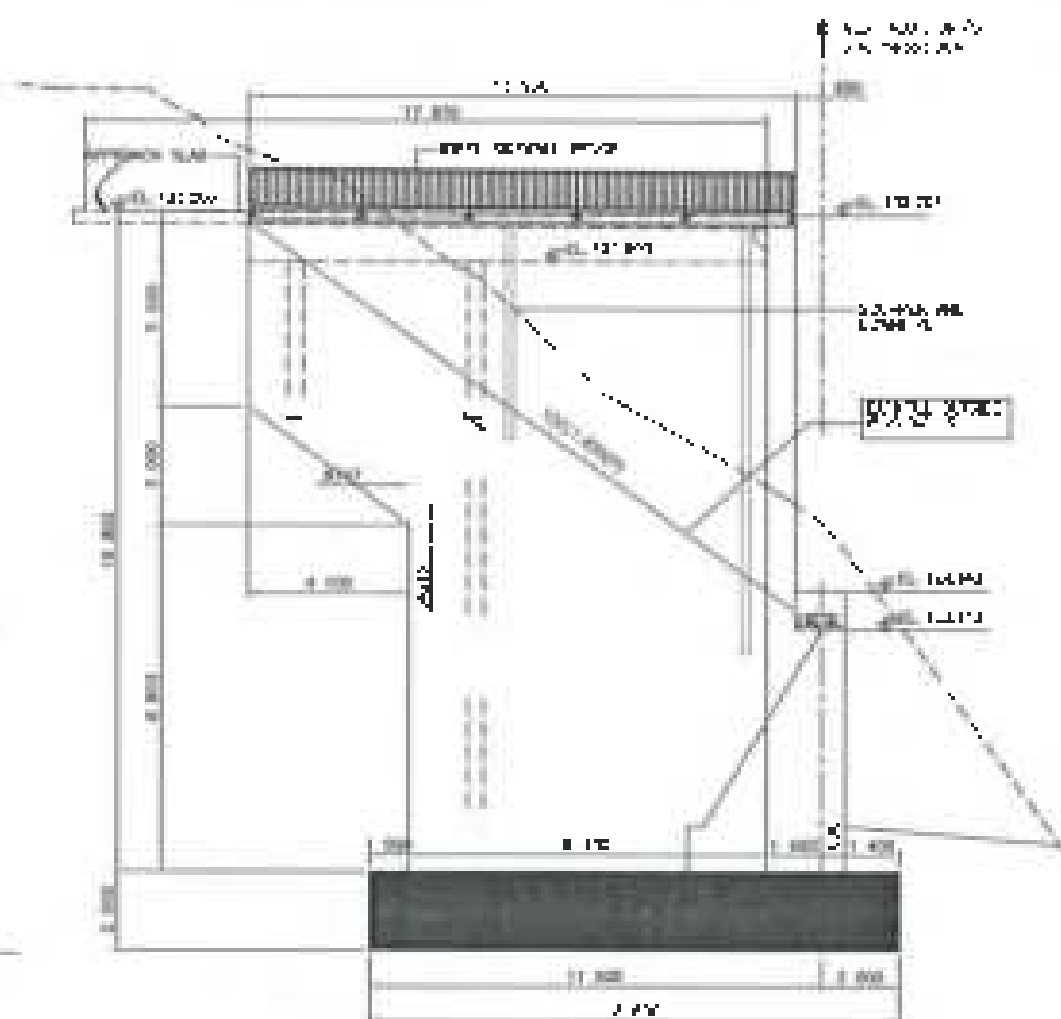
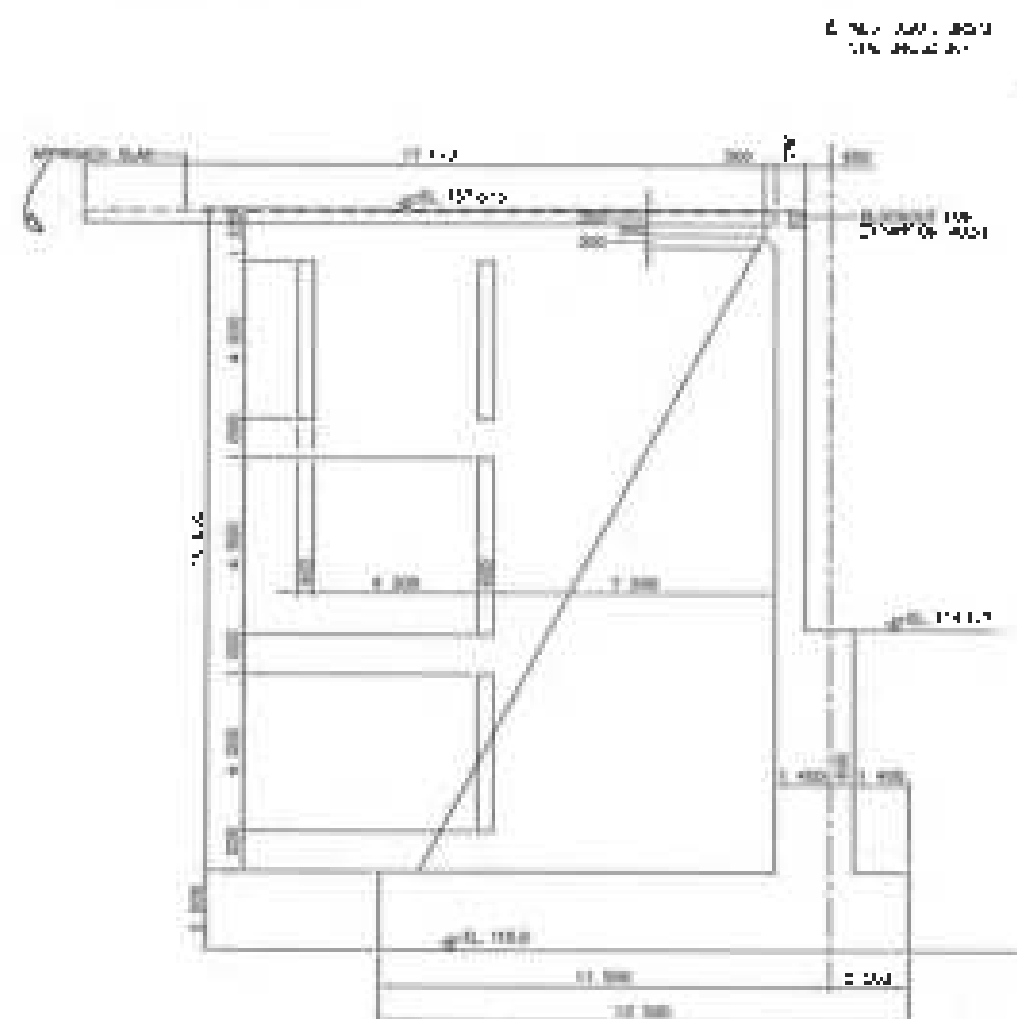
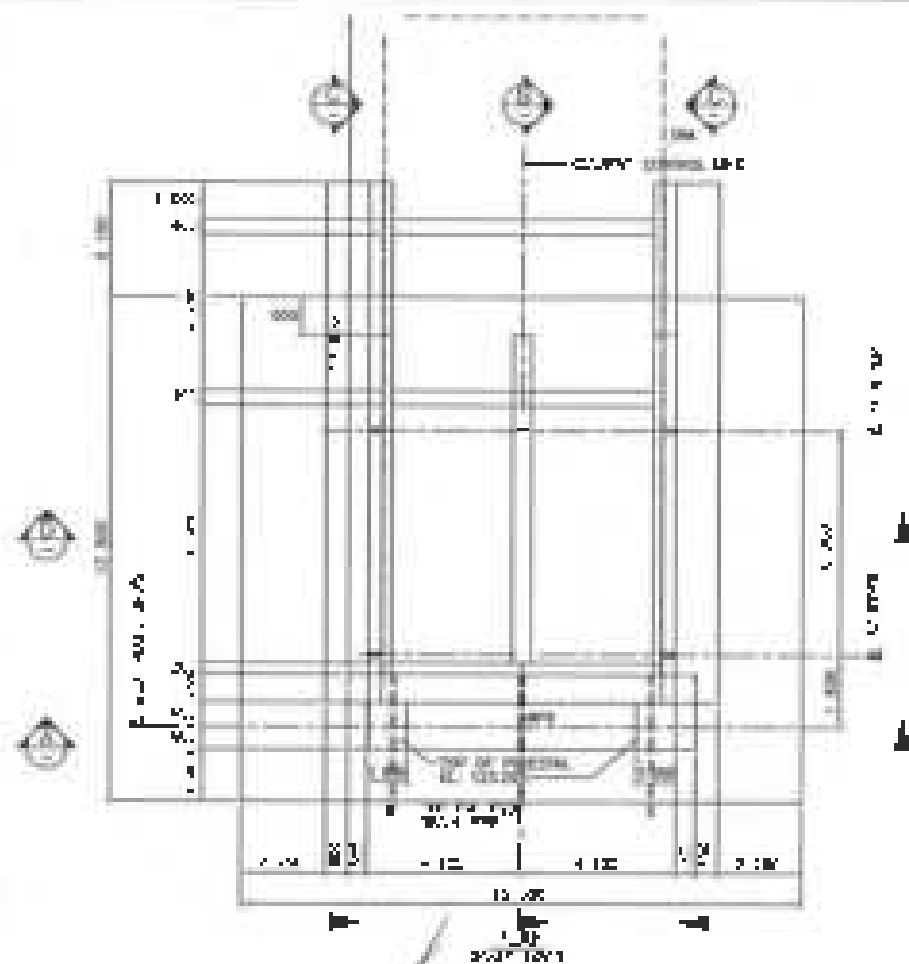


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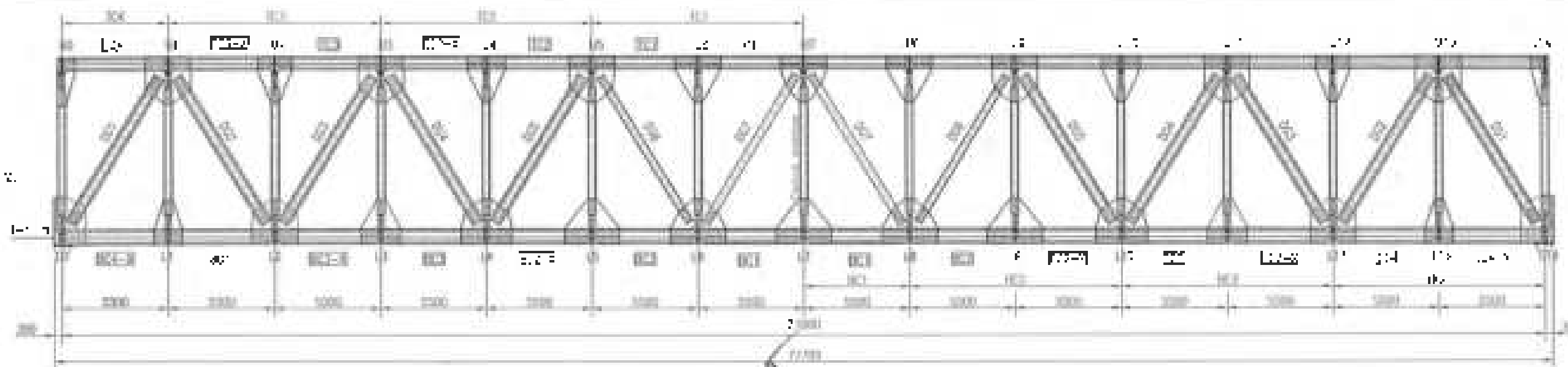
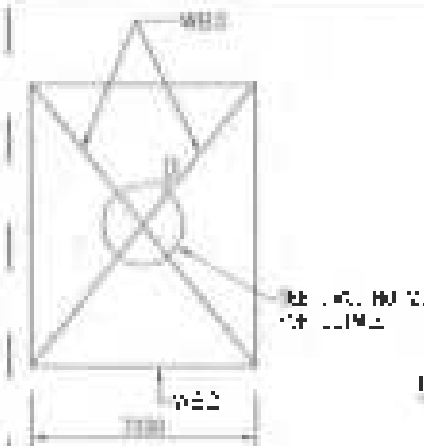


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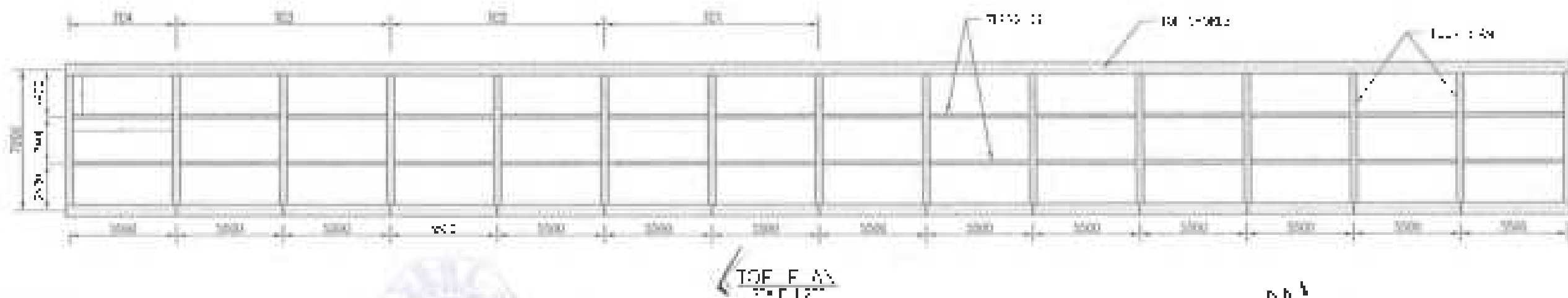
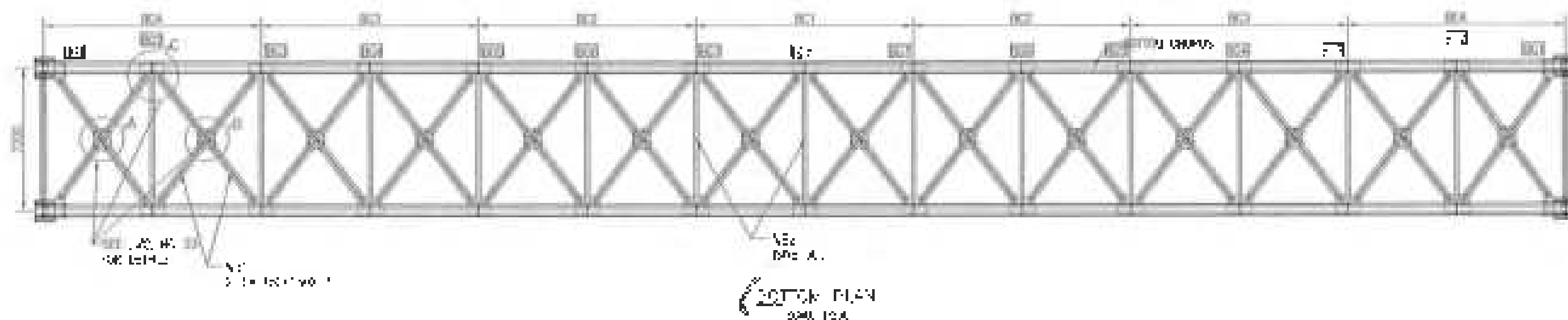
DESIGNED BY: CHANDRA K. P. K. ENGINEER IN CHARGE DEPARTMENT OF ROADS ROAD CONSTRUCTION SECTION DISTRICT ENGINEERING OFFICE, KATHMANDU	CONSULTANT Kurus Engineering Consultant Corp.	CONTRACT NO. CTCE-KALIKA-IV BALOWATER, KATHMANDU	CONTRACT NO. 2-10-1-1000 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHAIARA)	PROJECT NO. 22-2011-10000 KATHMANDU	DATE: 10/10/11 DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	SCALE: 1/100 10/10/11	PROJECT NO. 22-2011-10000	DATE: 10/10/11 DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	PAGE NO. 17
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BEARING TOP ELEVATION (MAIN SPAN)

SPARING NO.	ELEVATION (m)
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2	120.640

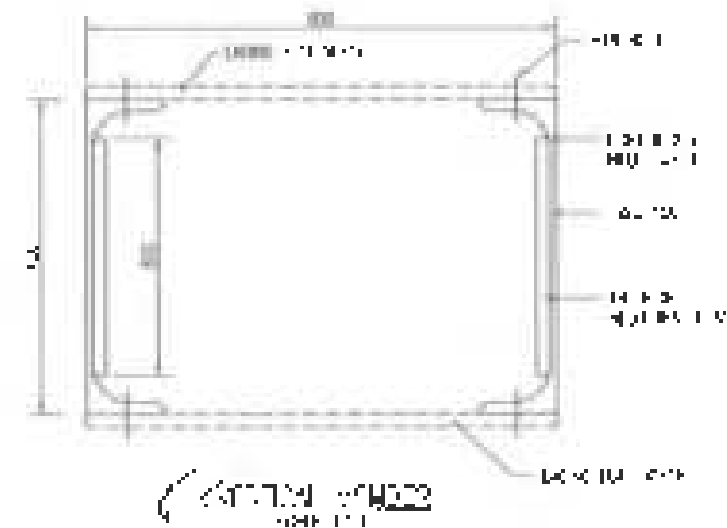
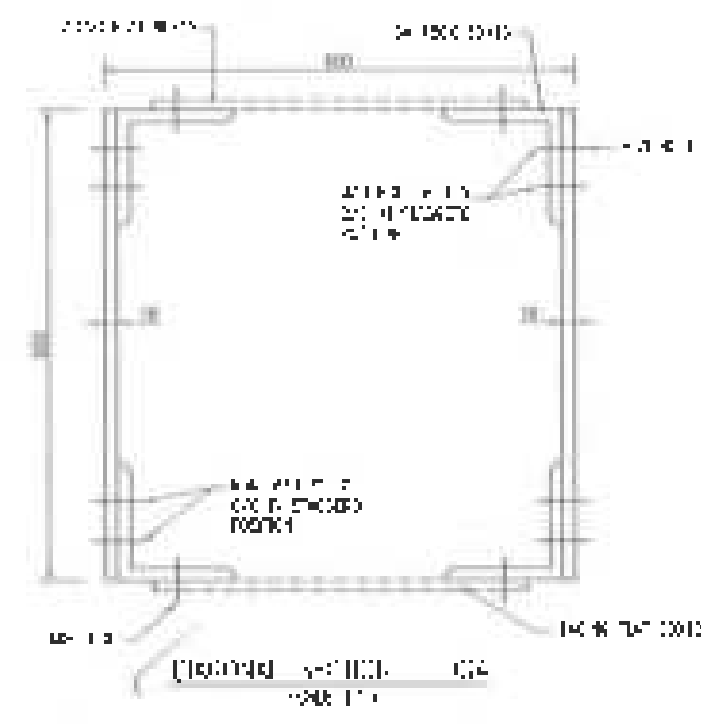


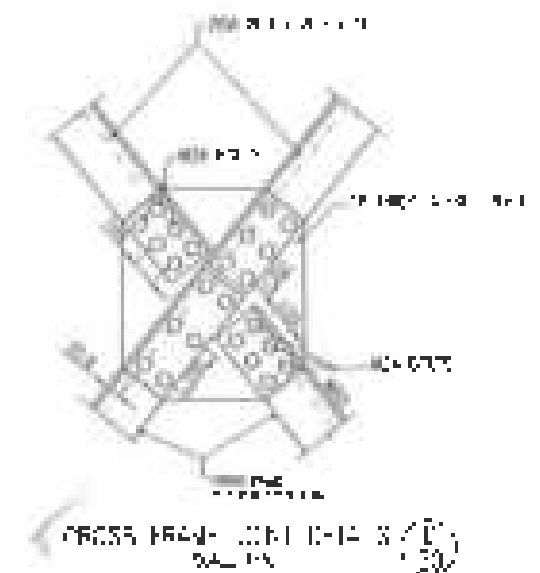
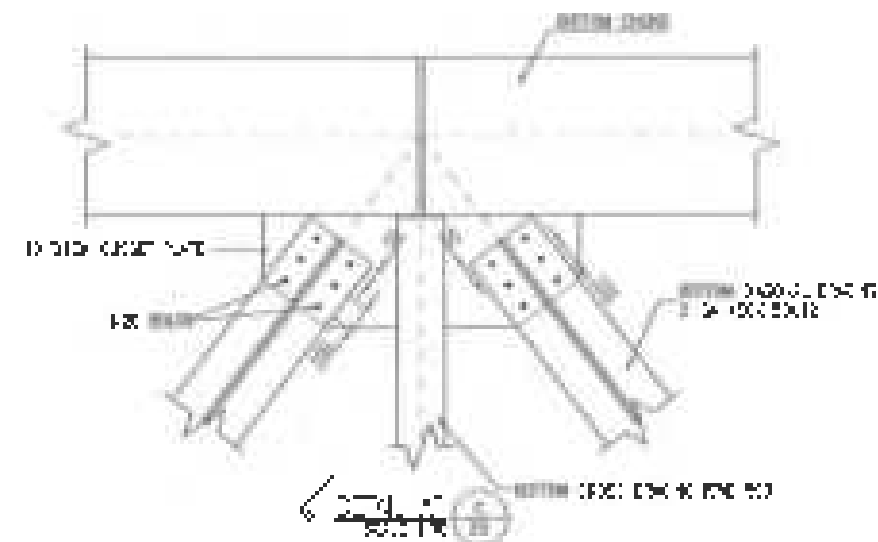
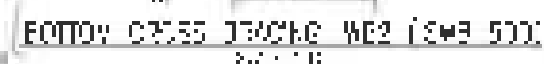
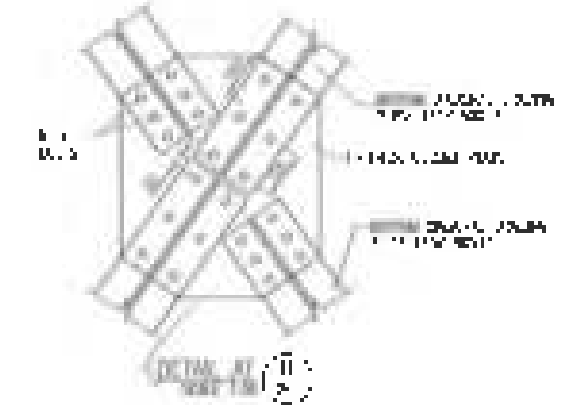
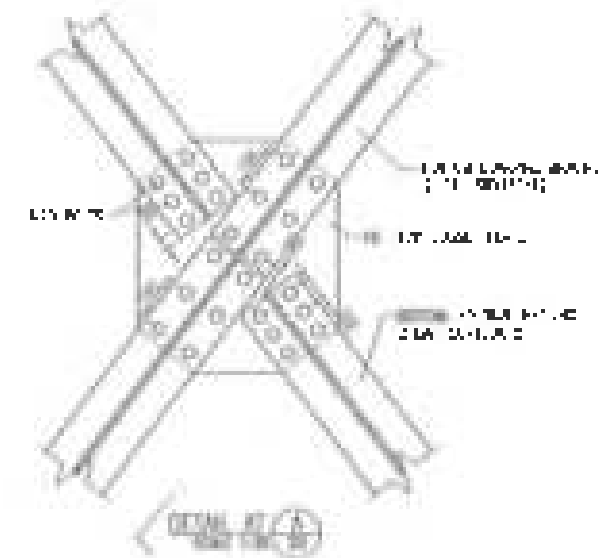
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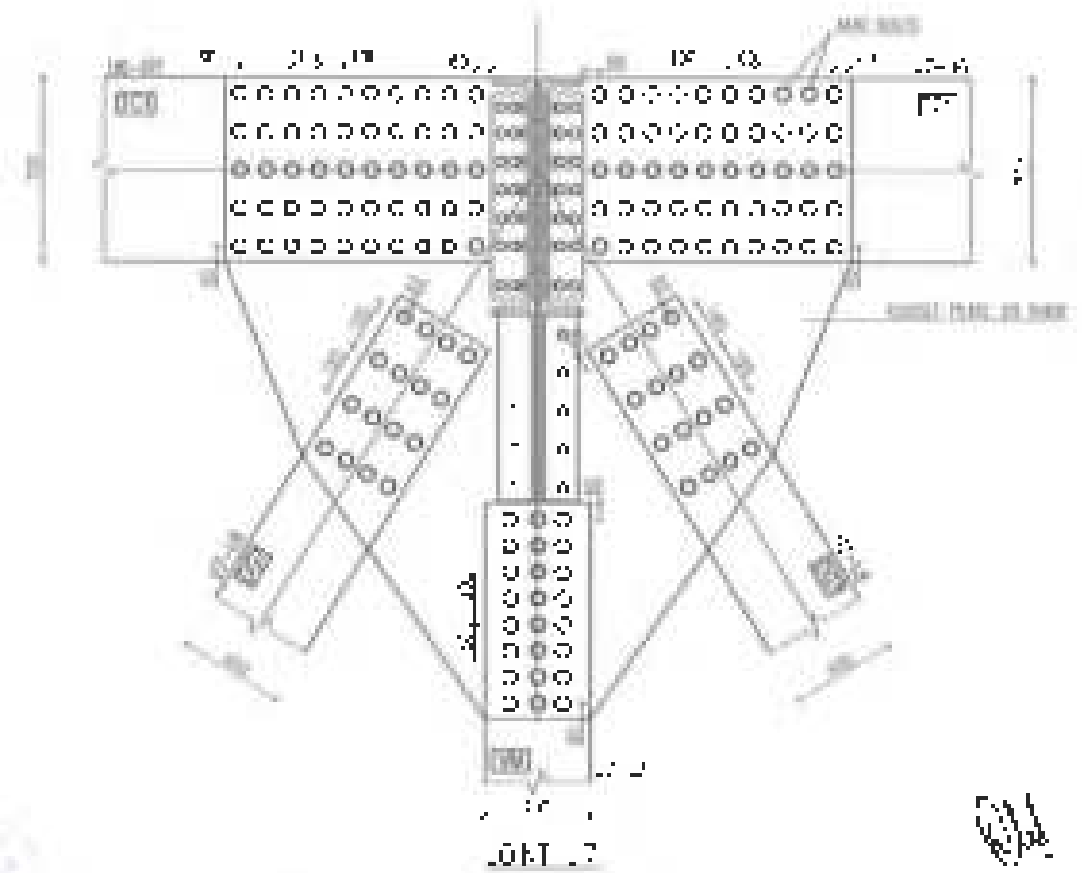
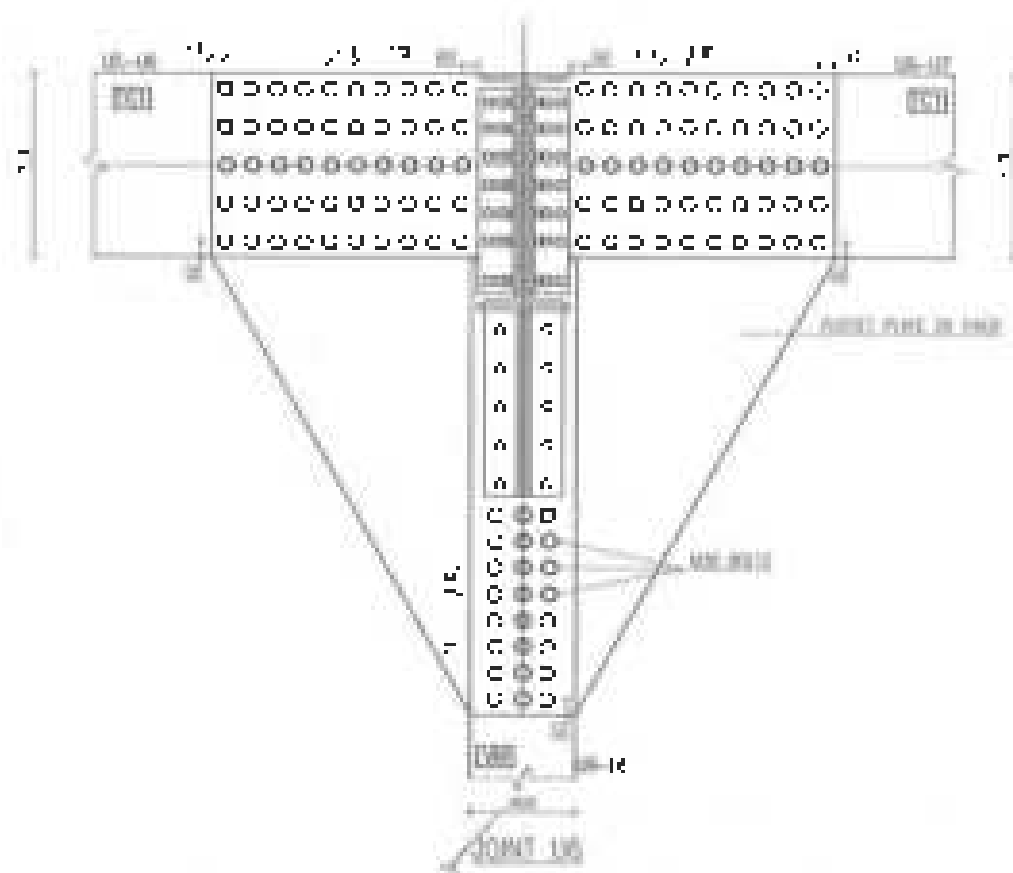
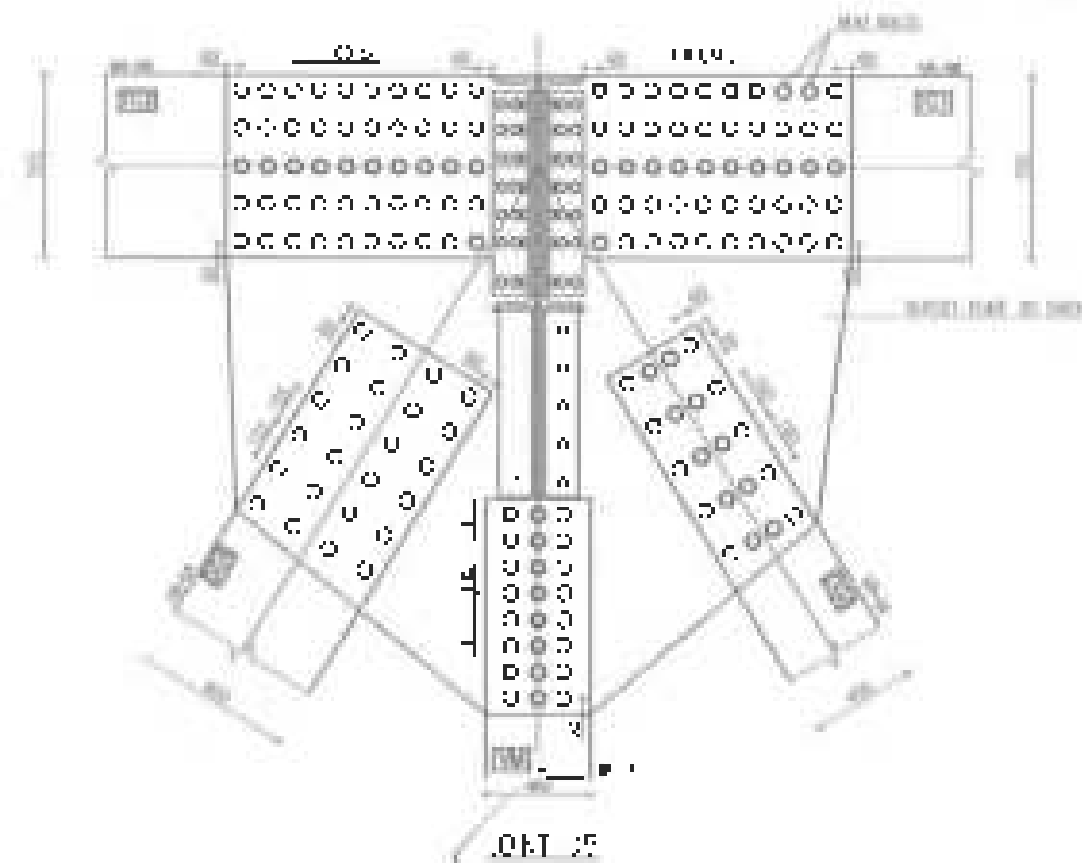
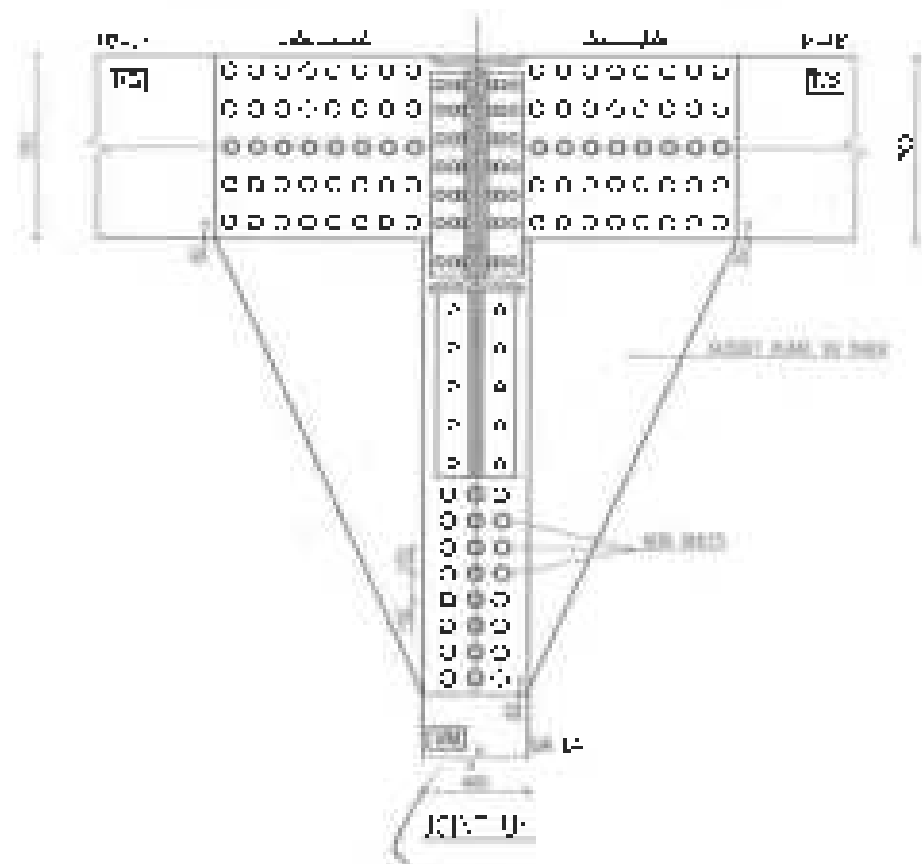


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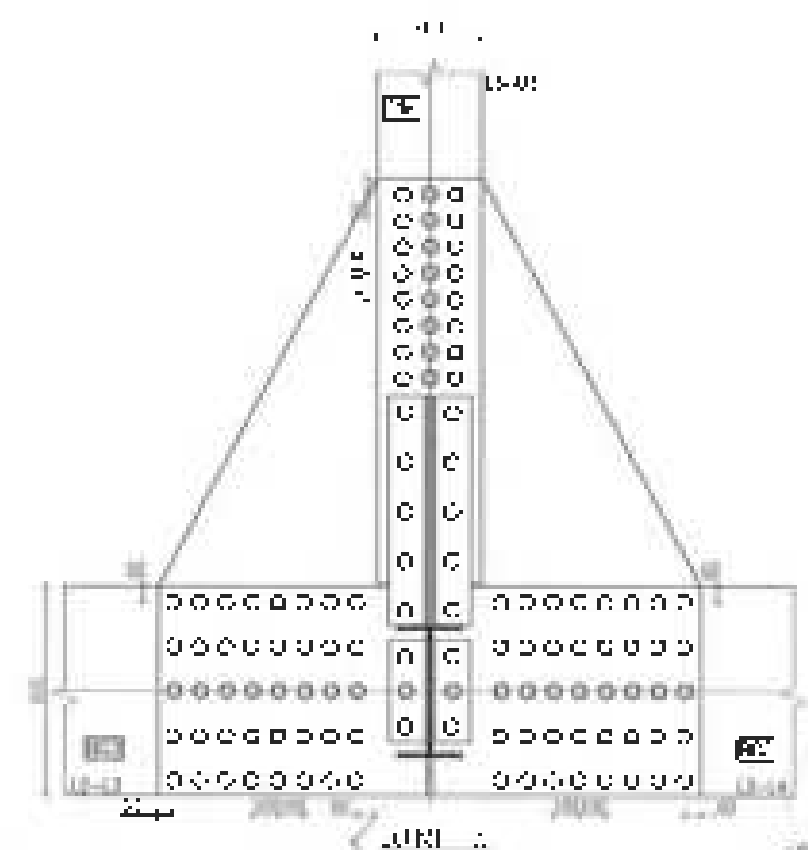
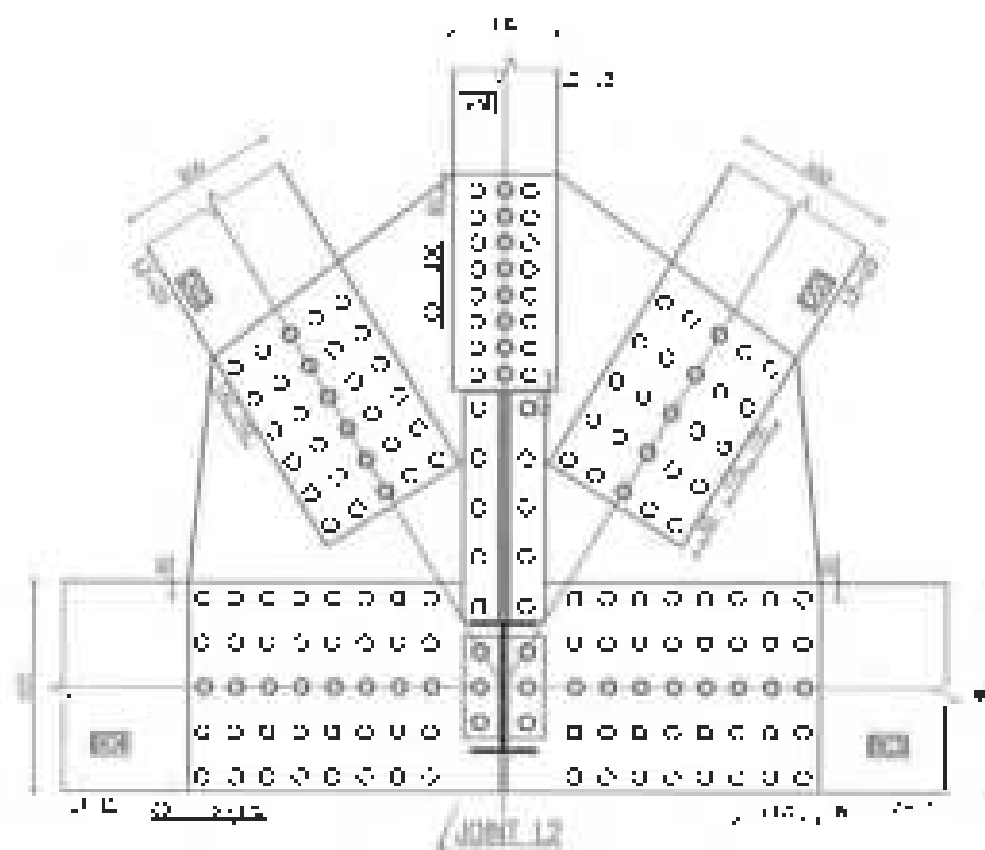
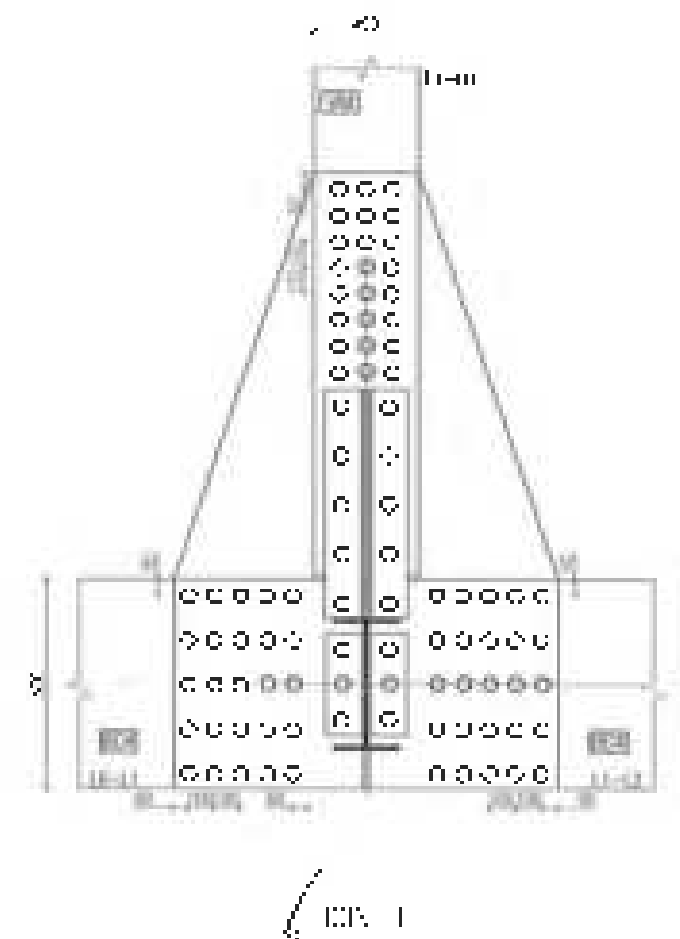
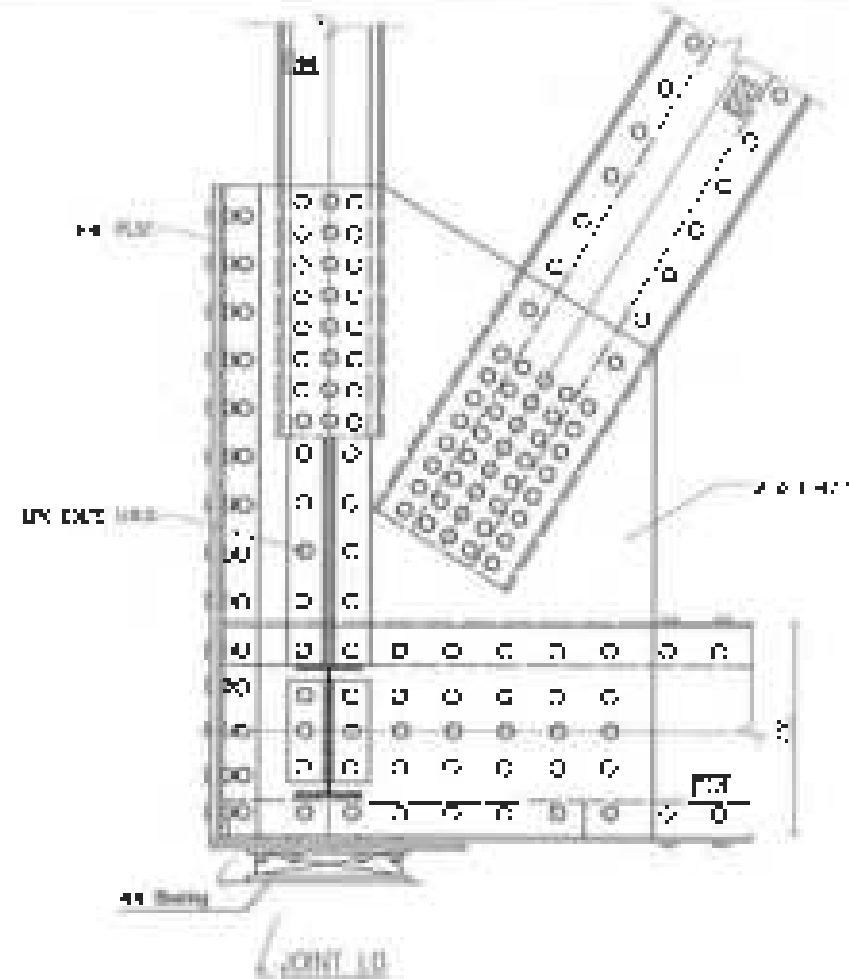
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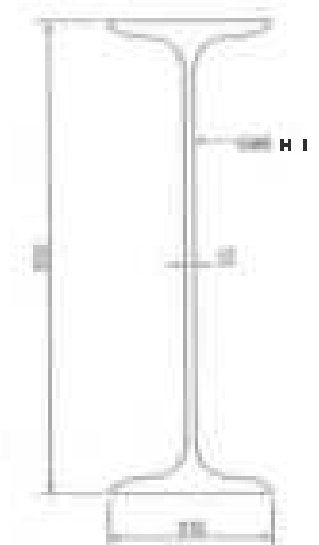
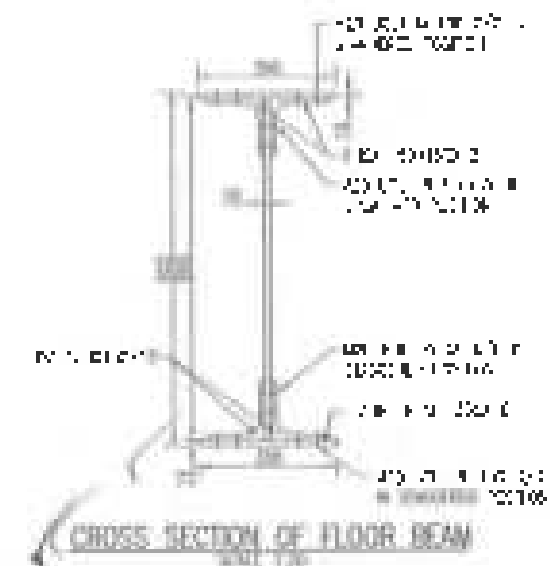
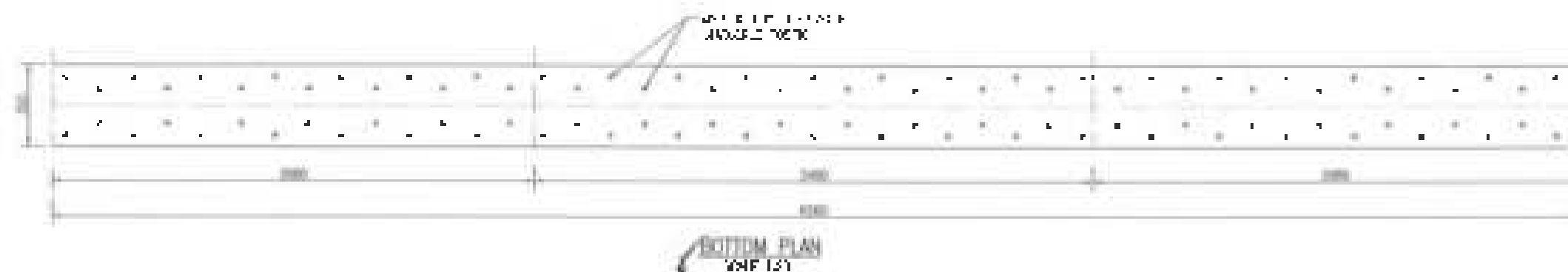
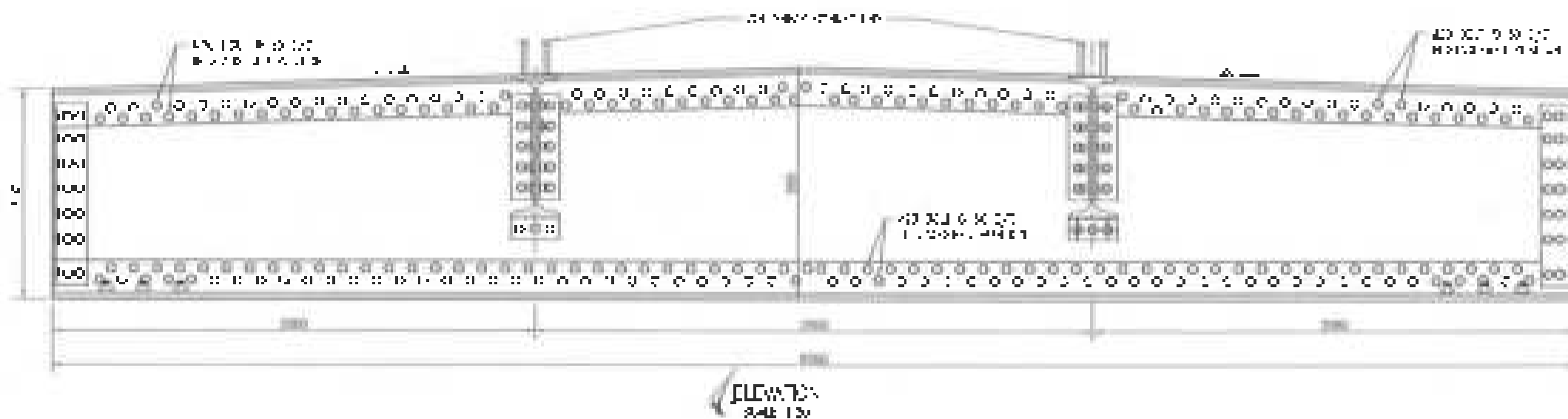
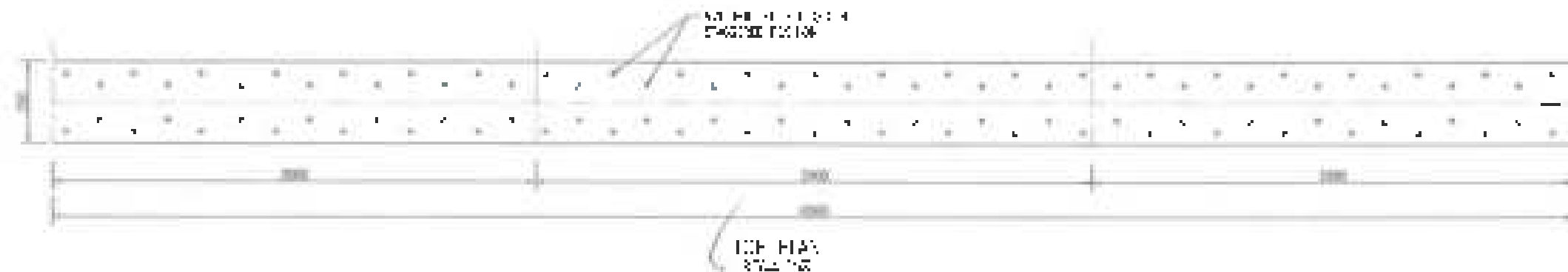
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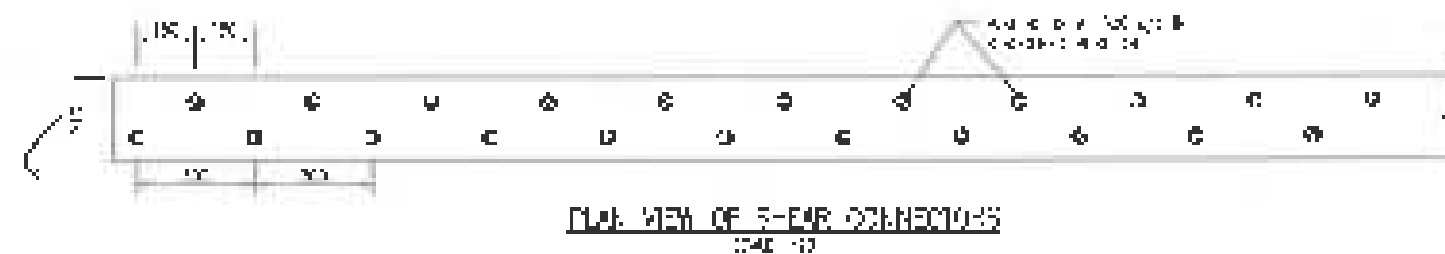
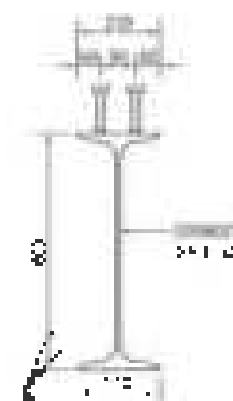
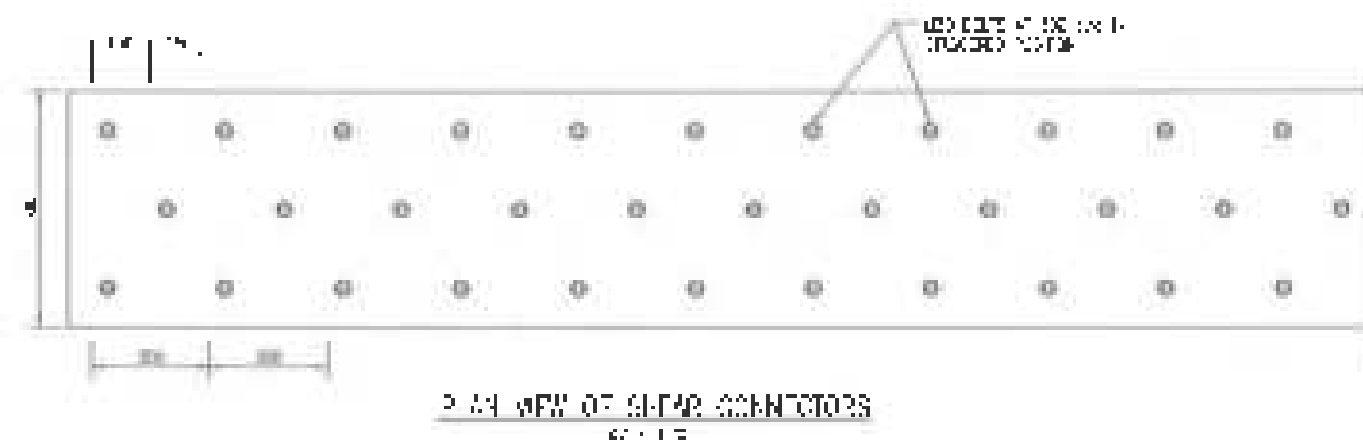
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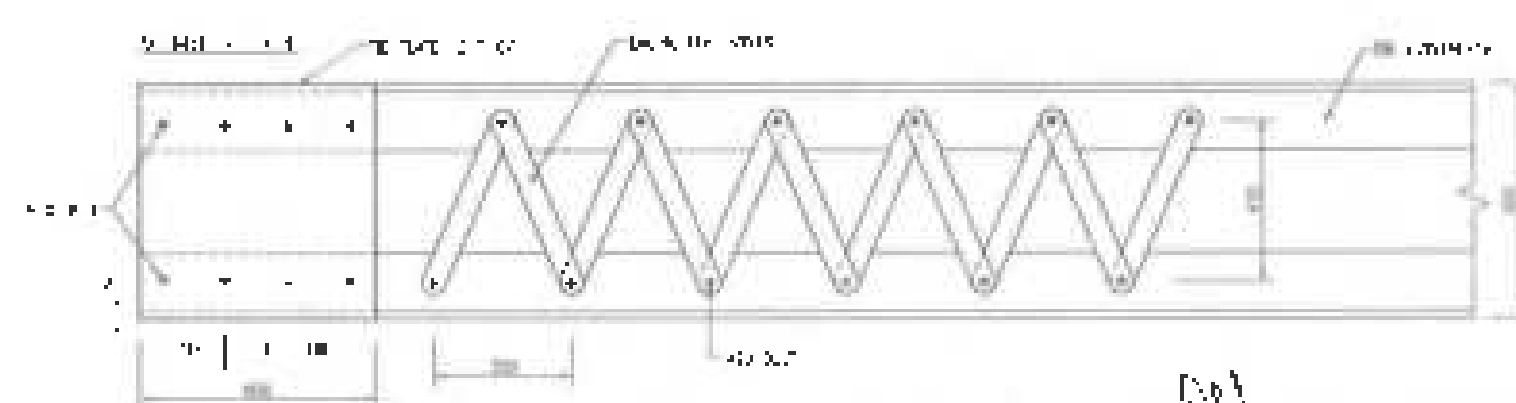
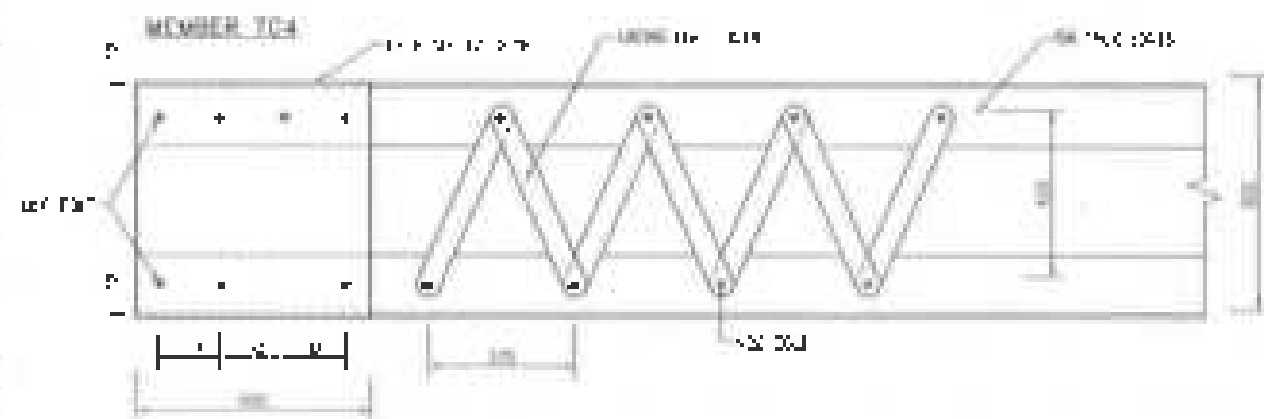
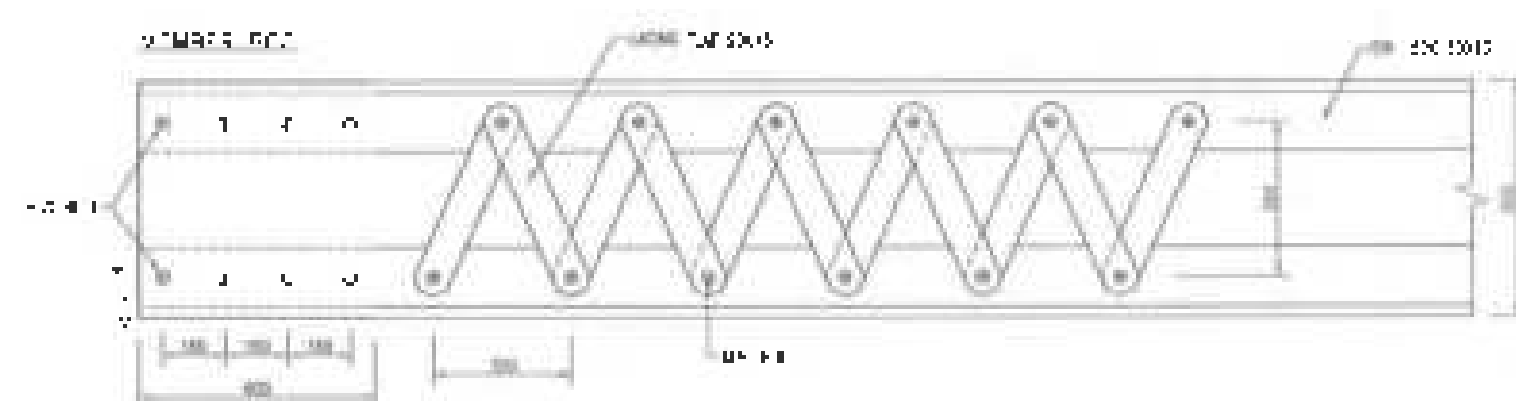
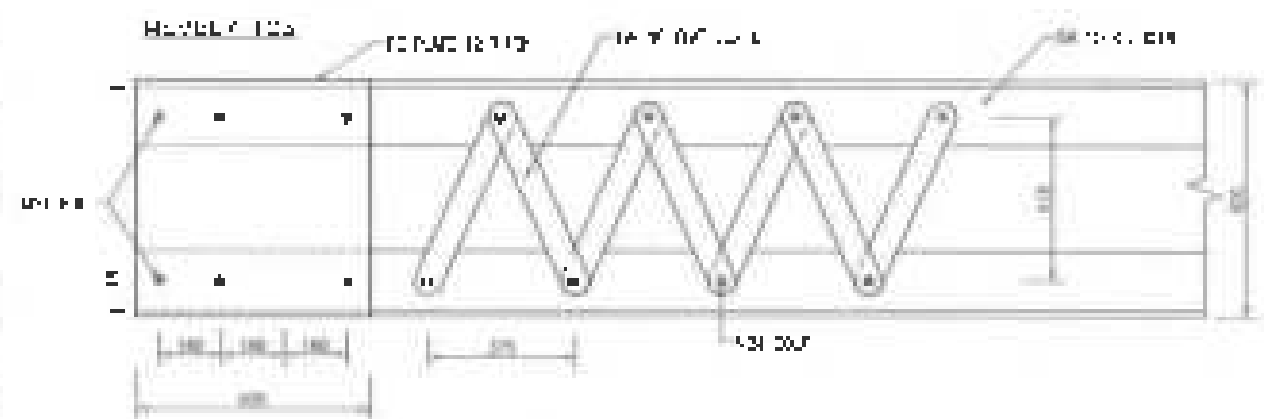
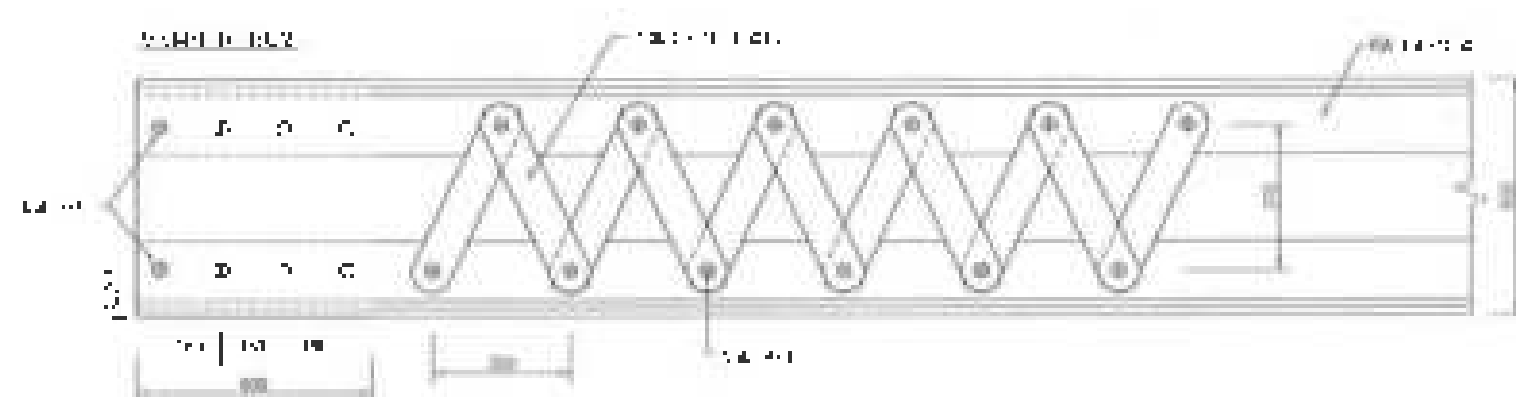
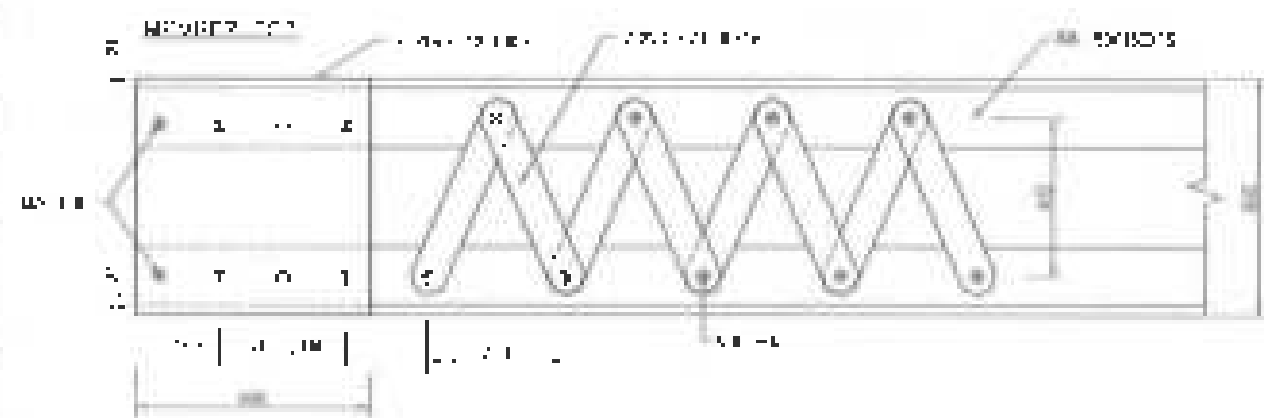
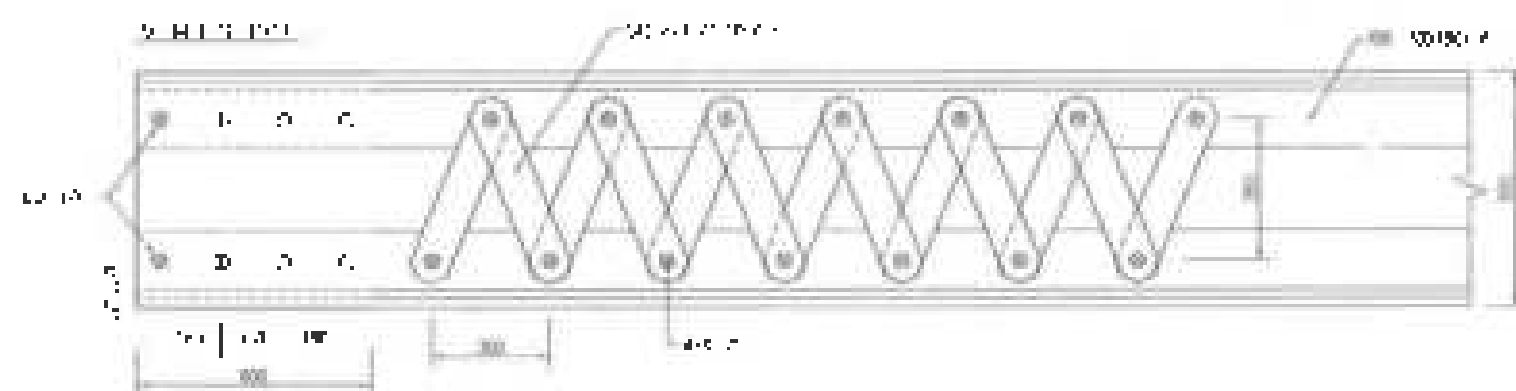
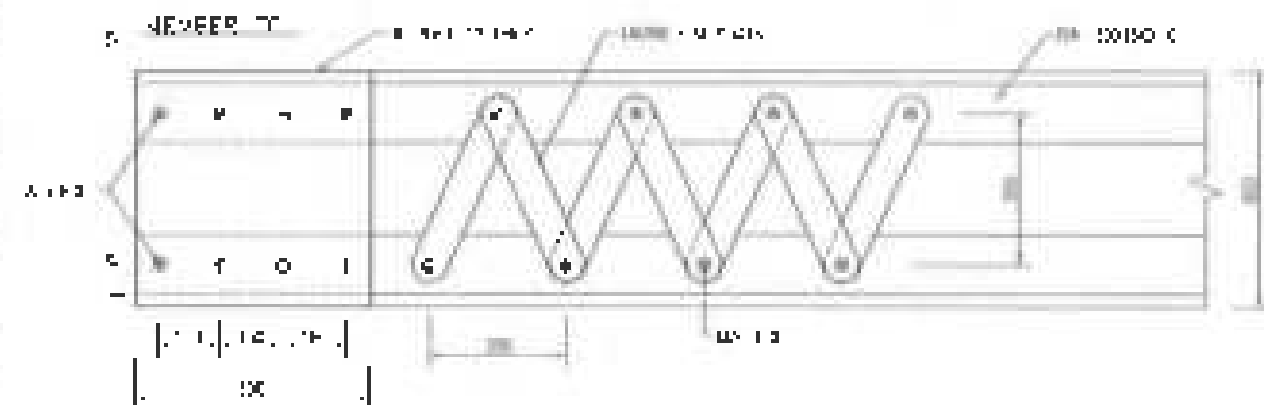
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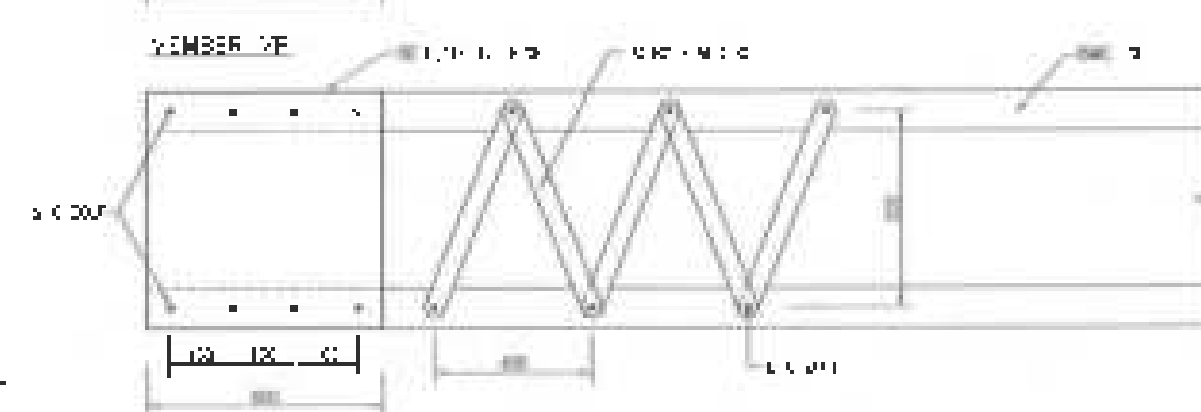
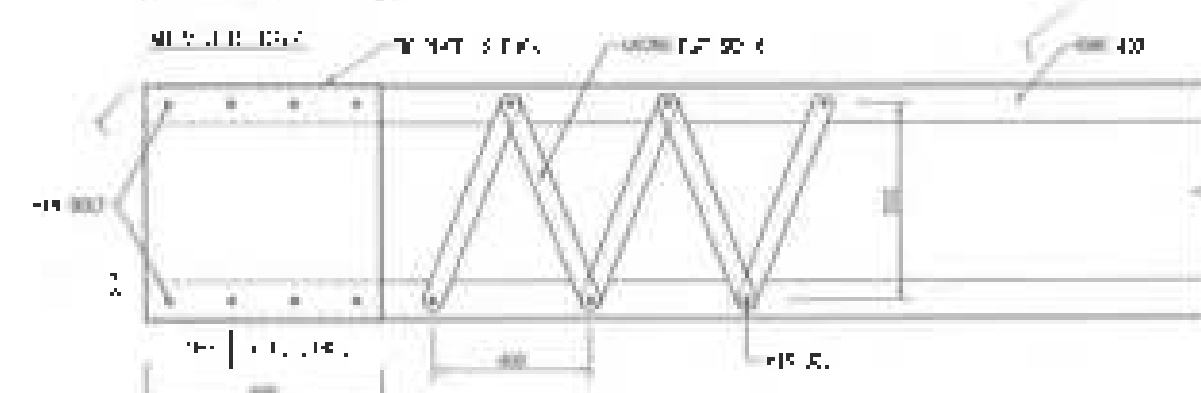
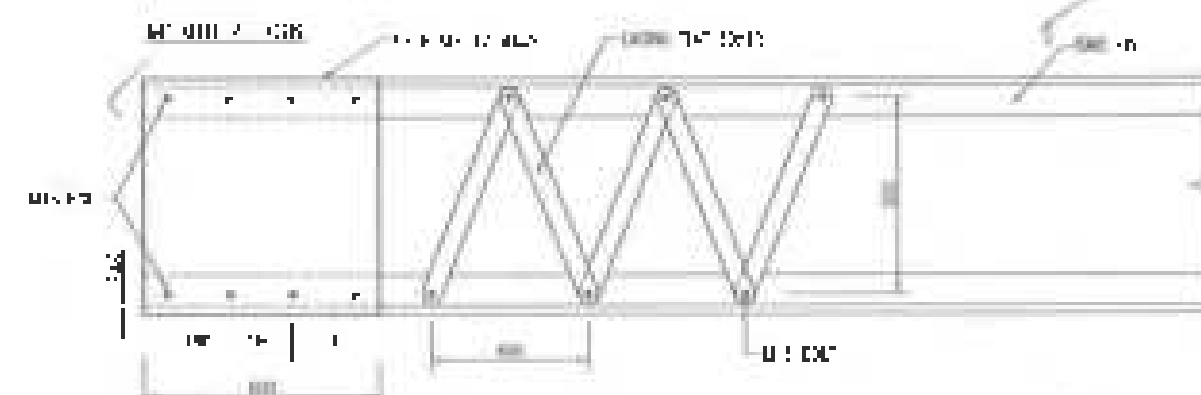
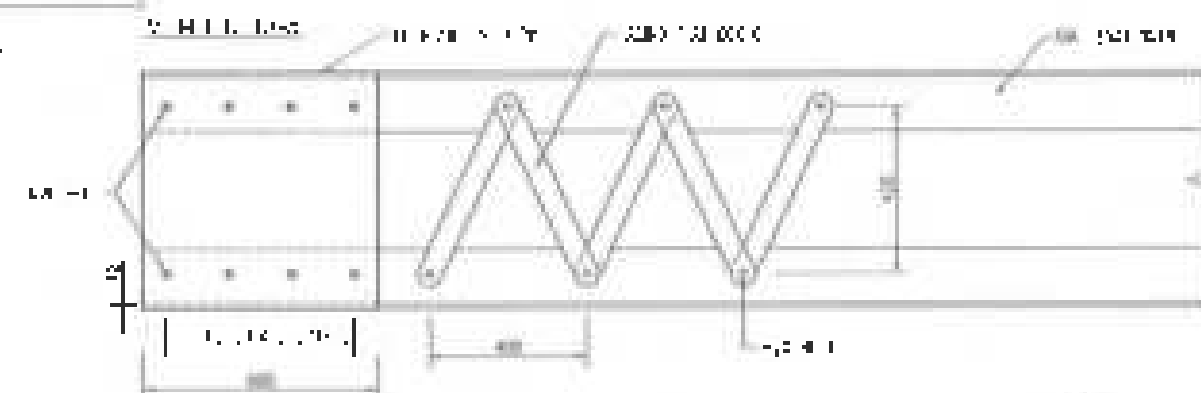
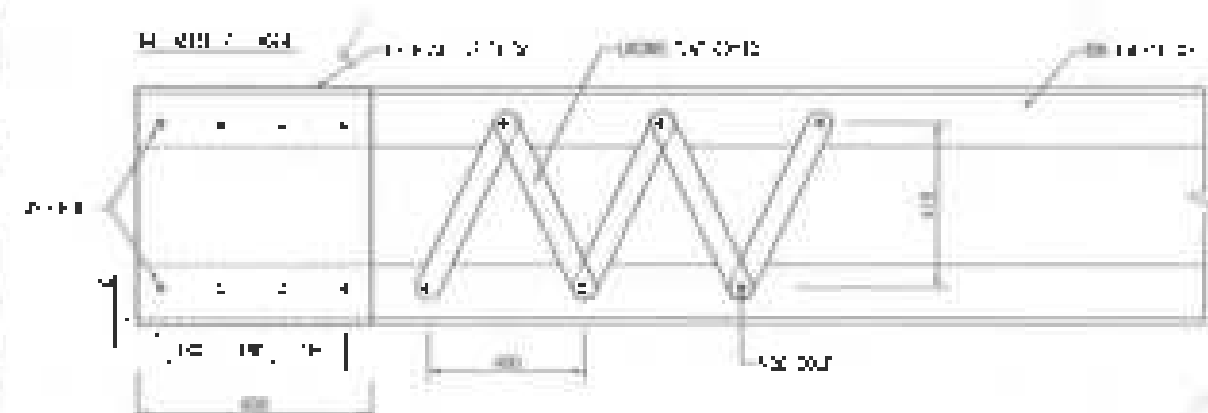
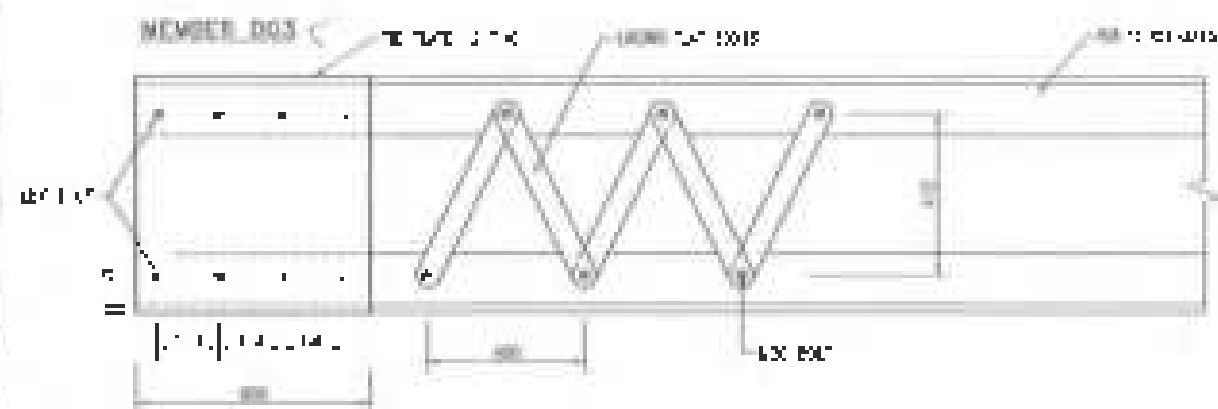
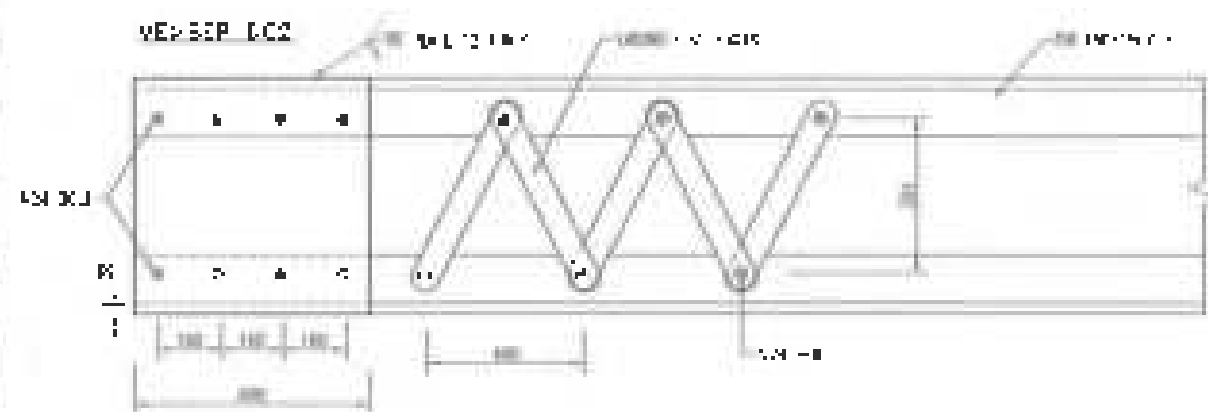
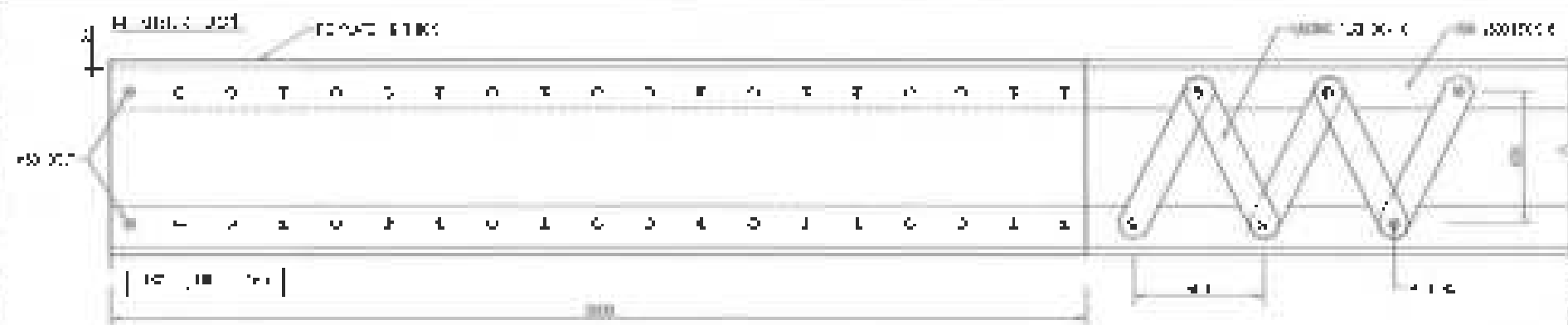
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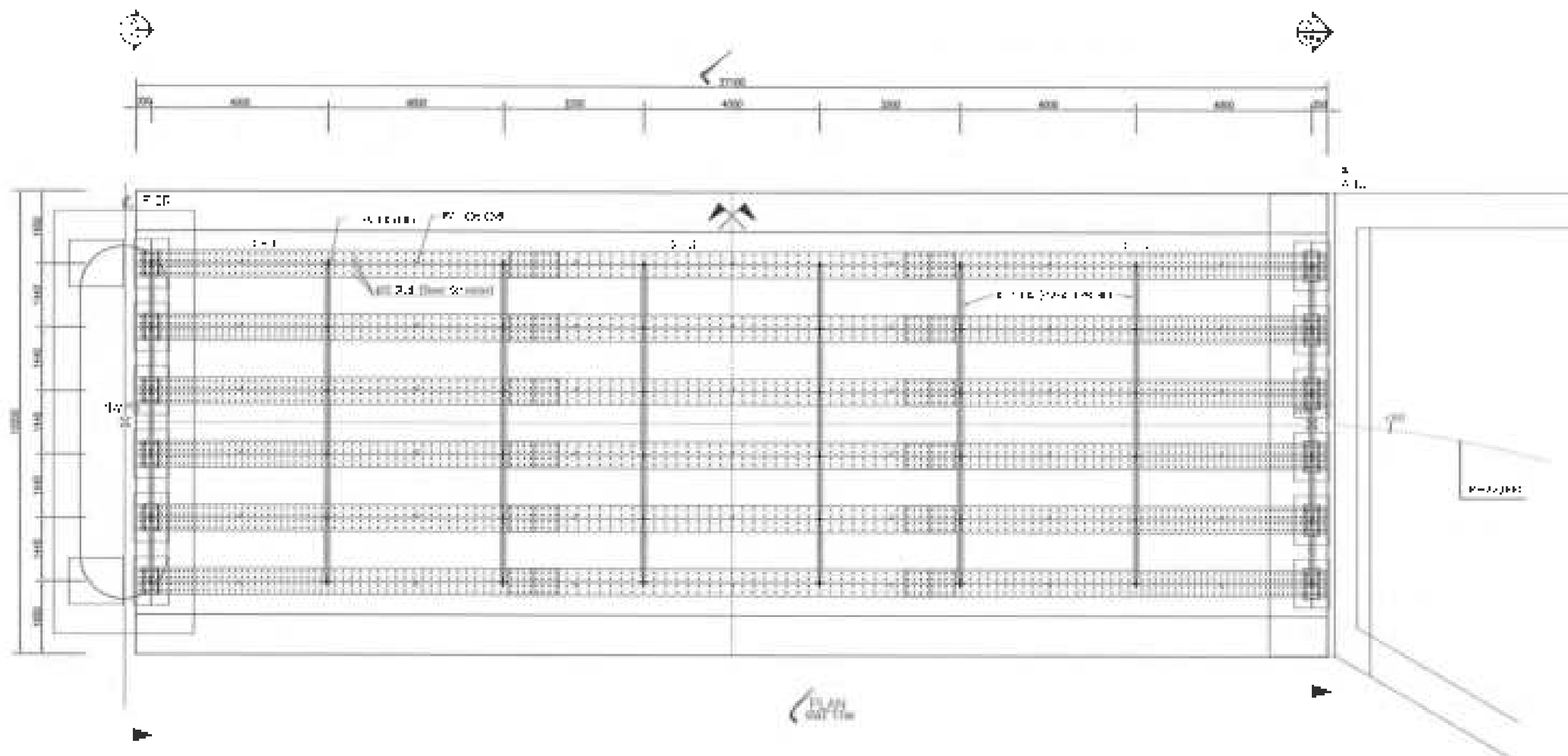
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PROJECT INFORMATION DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION ADDITIONAL DIRECTOR TECHNICAL DIVISION	CONSULTANT Koren Engineering Consultant Corp.	PROJECT NAME KATHMANDU RAILWAY RAILWAY KATHMANDU	CONTRACT NUMBER CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATARA)	DRAWING AS BUILT DRAWING BRIDGE AS BUILT DRAWING SHEET 1 OF 1	DATE 2072 2072	SCALE 1:1000 1:1000 1:1000	DRAWN BY 2072	CHECKED BY 2072	DATE 2072
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PROJECT TITLE DEPARTMENT OF ROADS ROAD CONSTRUCTION AND MAINTENANCE ROAD NO. 10, CHATARA DISTRICT OF SUDURPASHCHIM, NEPAL	CONSULTANT Boreca Engineering Consultant (Pvt.)	CONTRACTOR CTCE-KALIKA JV BALLYA, KATHMANDU	CONTRACTED WORK CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES, CHATARA	DRAWING NO. 22-BULL-001-00 22-BULL-001-00 22-BULL-001-00	DATE 2073/01/01	BY [Signature]	CHECKED [Signature]	APPROVED [Signature]	DATE 2073/01/01 2073/01/01 2073/01/01
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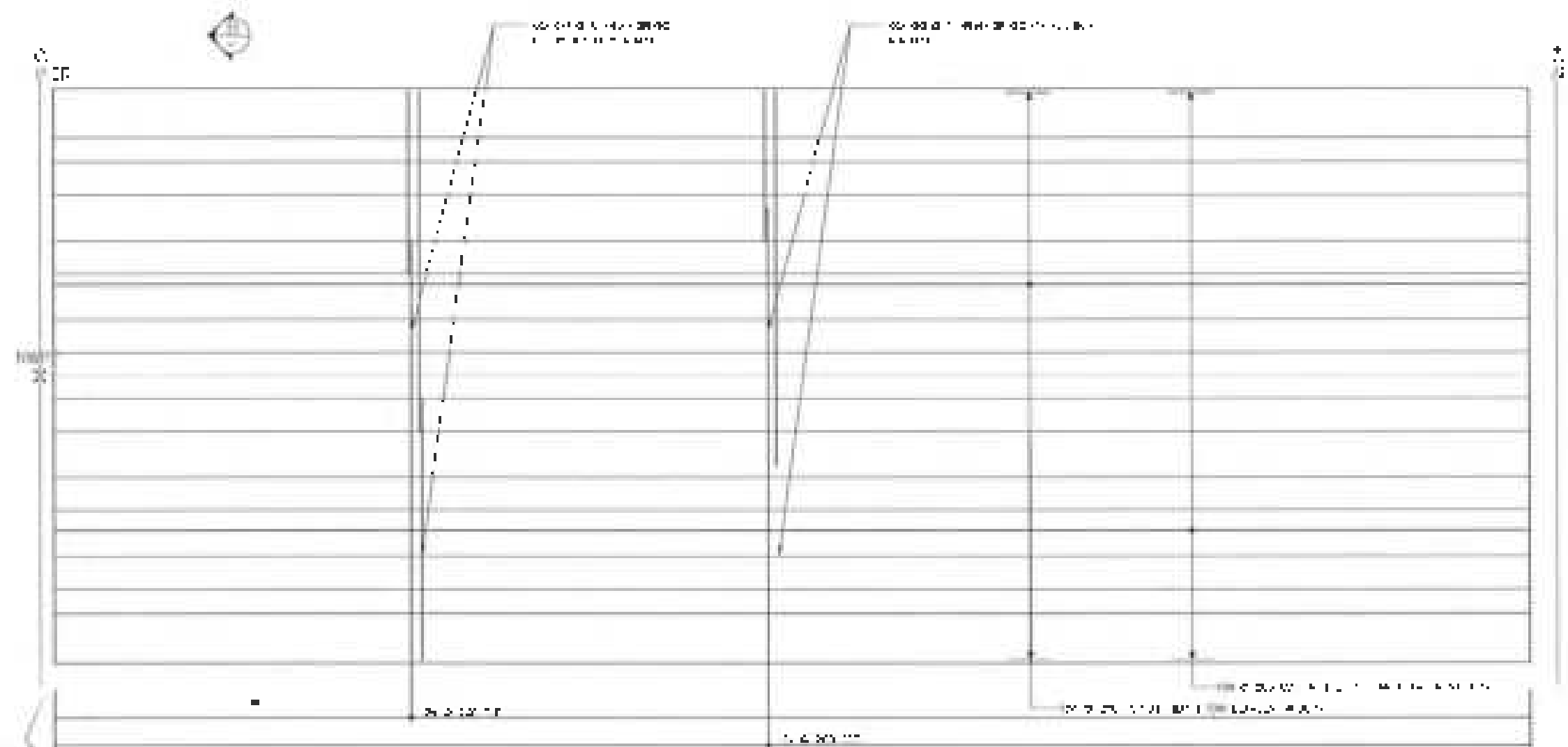
PLAN CROSS SECTION

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CONCRETE (C25)	m ³	10.00
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FORMWORK	m ²	100.00
LABOR	man-days	10.00
TOTAL		10.00

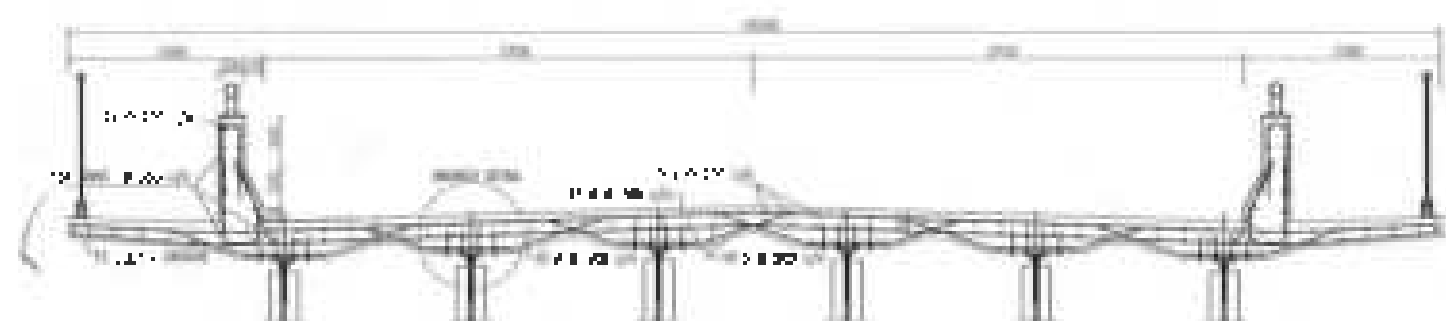
SECTION A-A

ITEM	UNIT	QUANTITY
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TOTAL		10.00

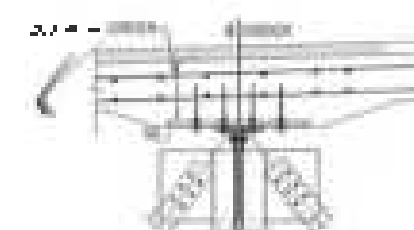
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AN
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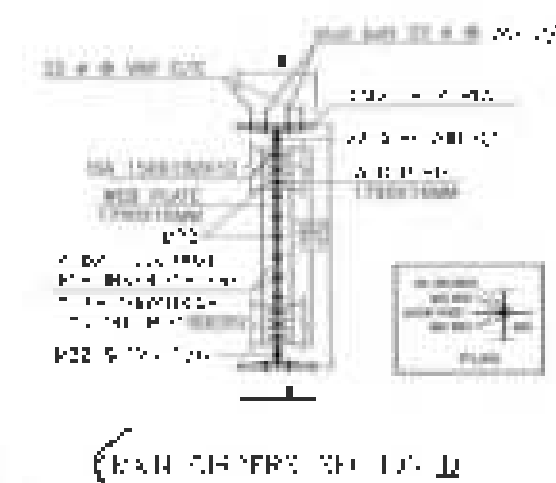
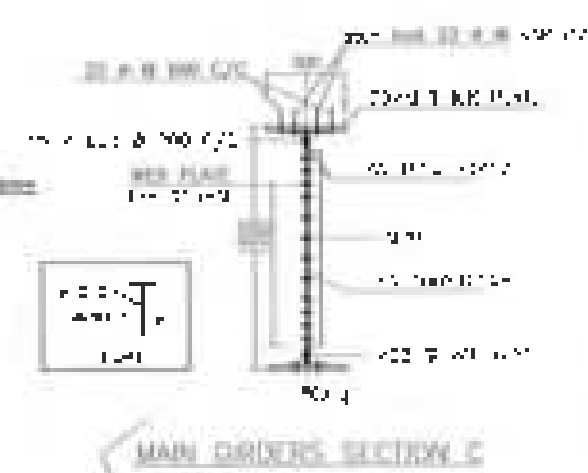
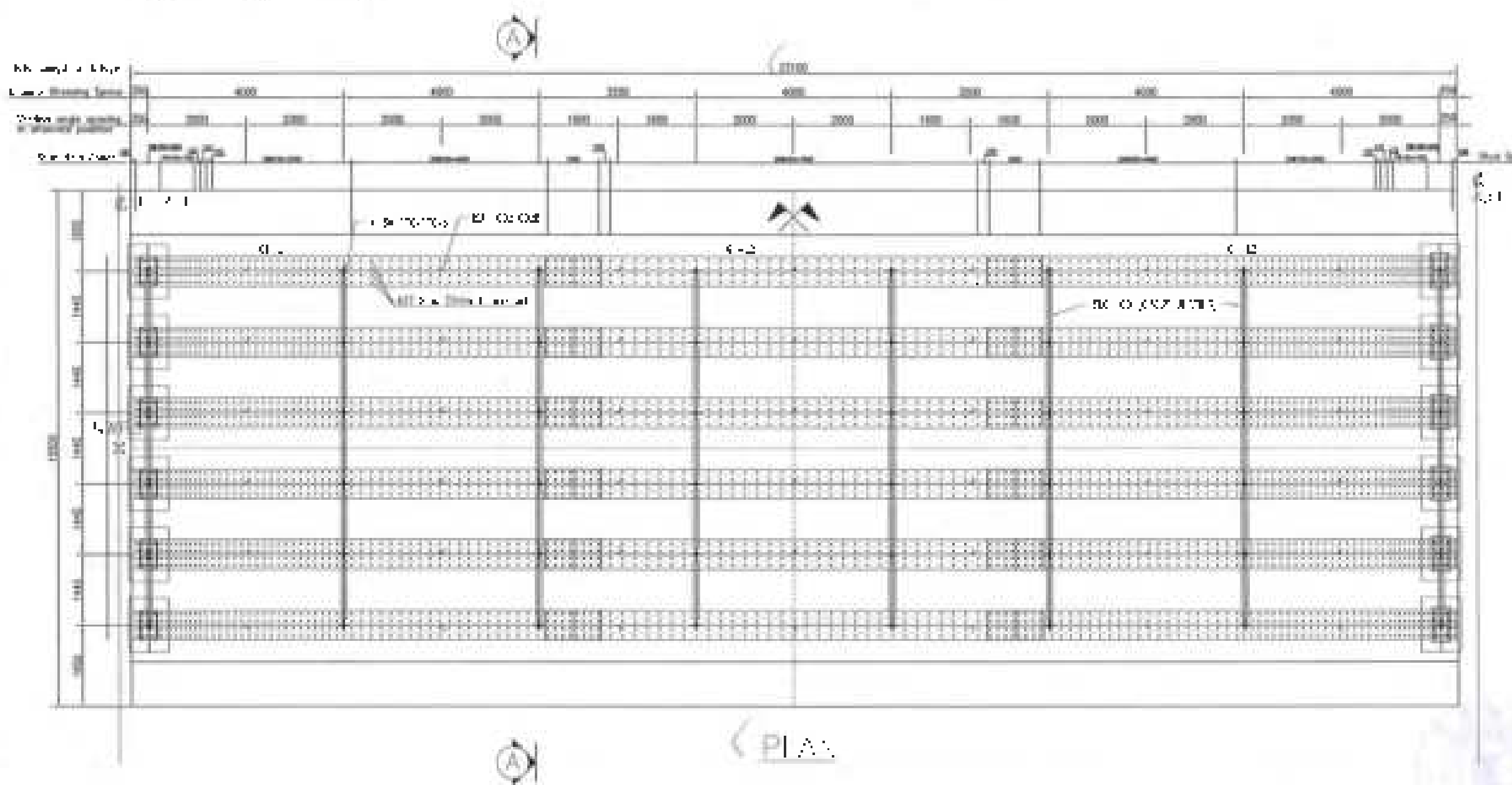
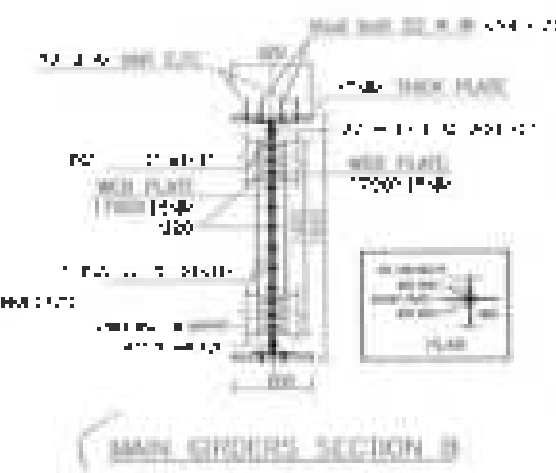
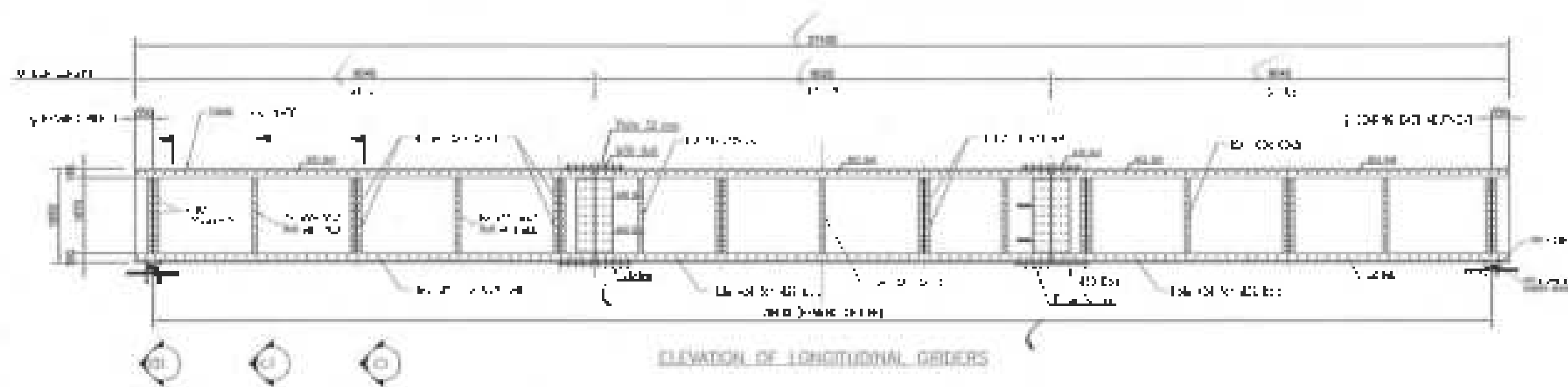
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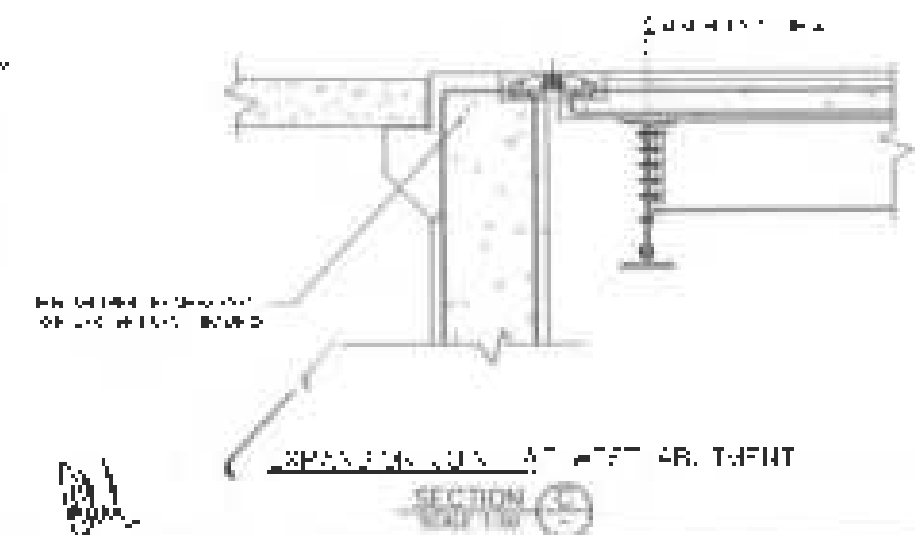
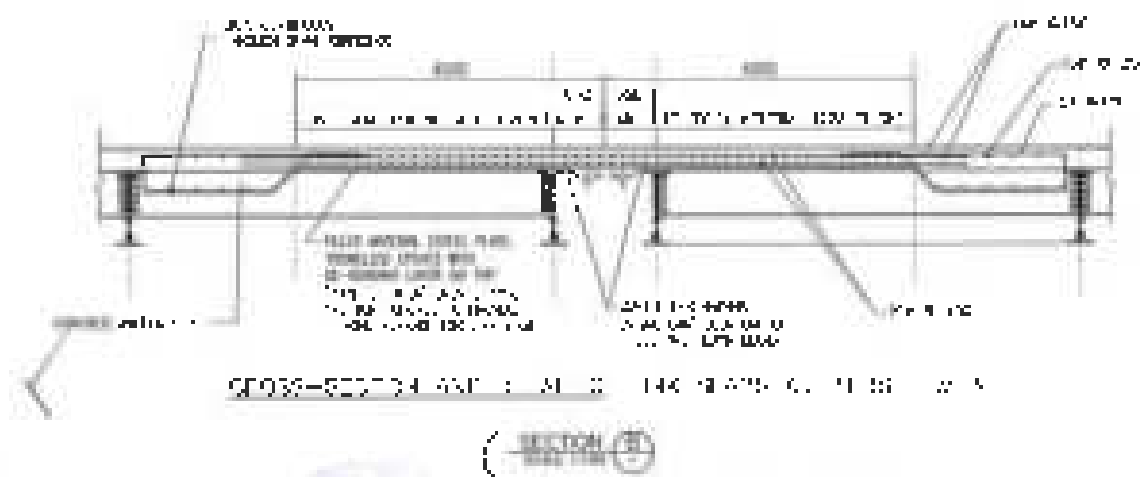
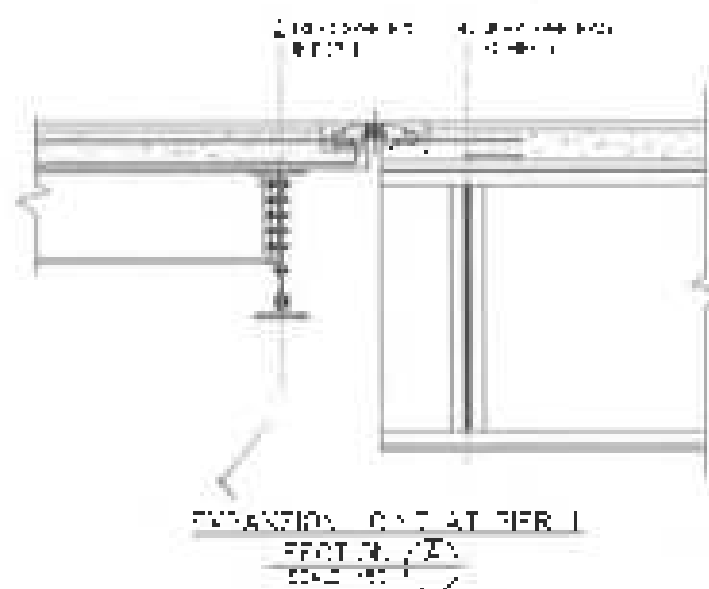
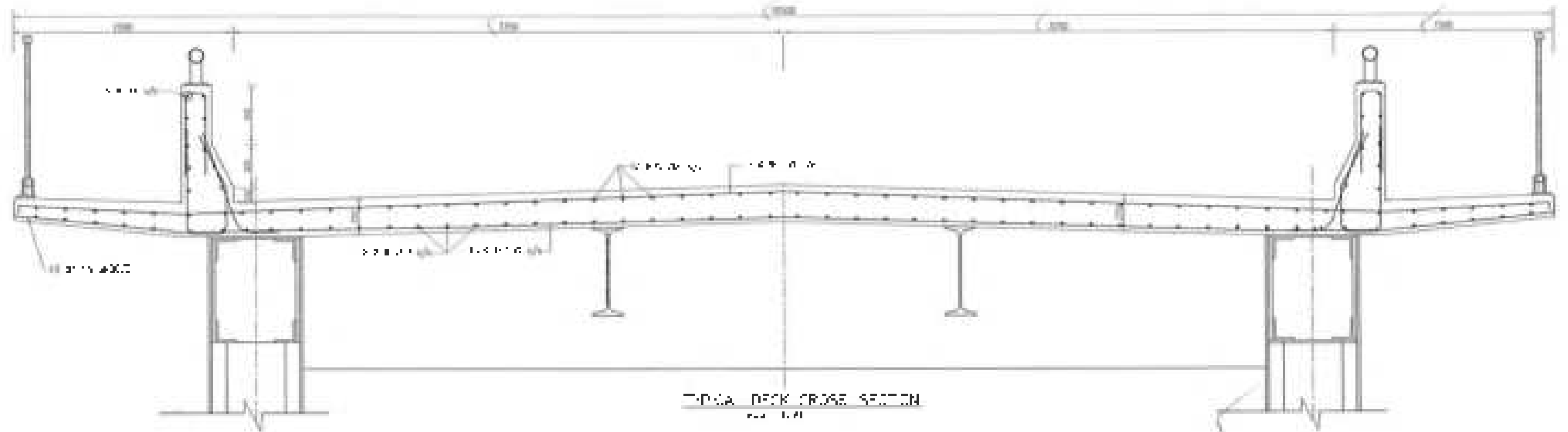
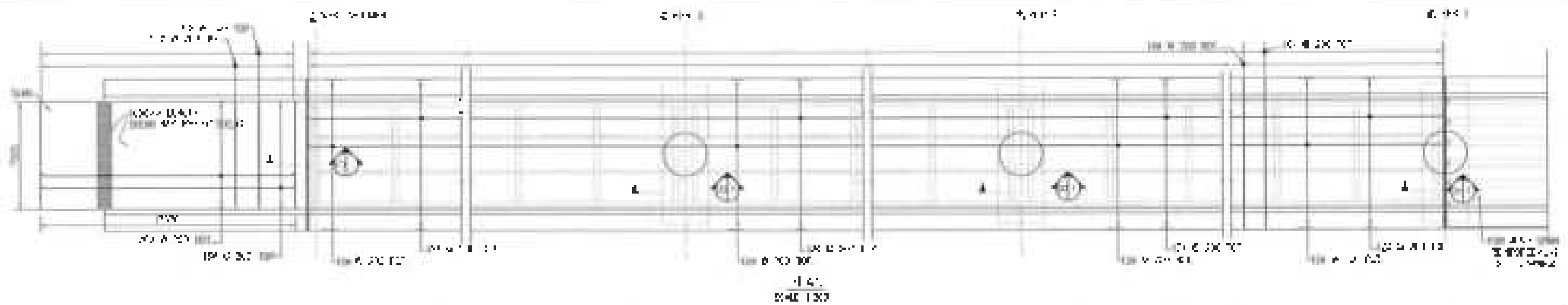
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COMPANY NAME OF THE CONSULTANT DEPARTMENT OF ROAD CONSTRUCTION 1. PROJECT NAME 2. PROJECT NO. 3. PROJECT LOCATION	COMPANY Korea Engineering Consultant Corp.	PROJECT NO. CTCE-KALIK JV BACHIVATAR, KATHMANDU	CONTRACT NO. REFERENCE CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	PROJECT NO. AS PER DRAWING 1. PROJECT NO. 2. PROJECT LOCATION	DATE 10/10/2020	DESIGNER 10/10/2020	DATE 10/10/2020	PROJECT KOSHI-01/20	NO. OF SHEET 38
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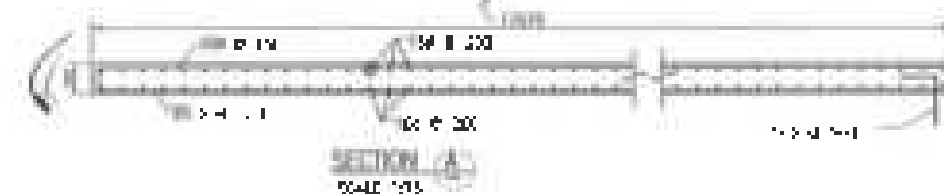
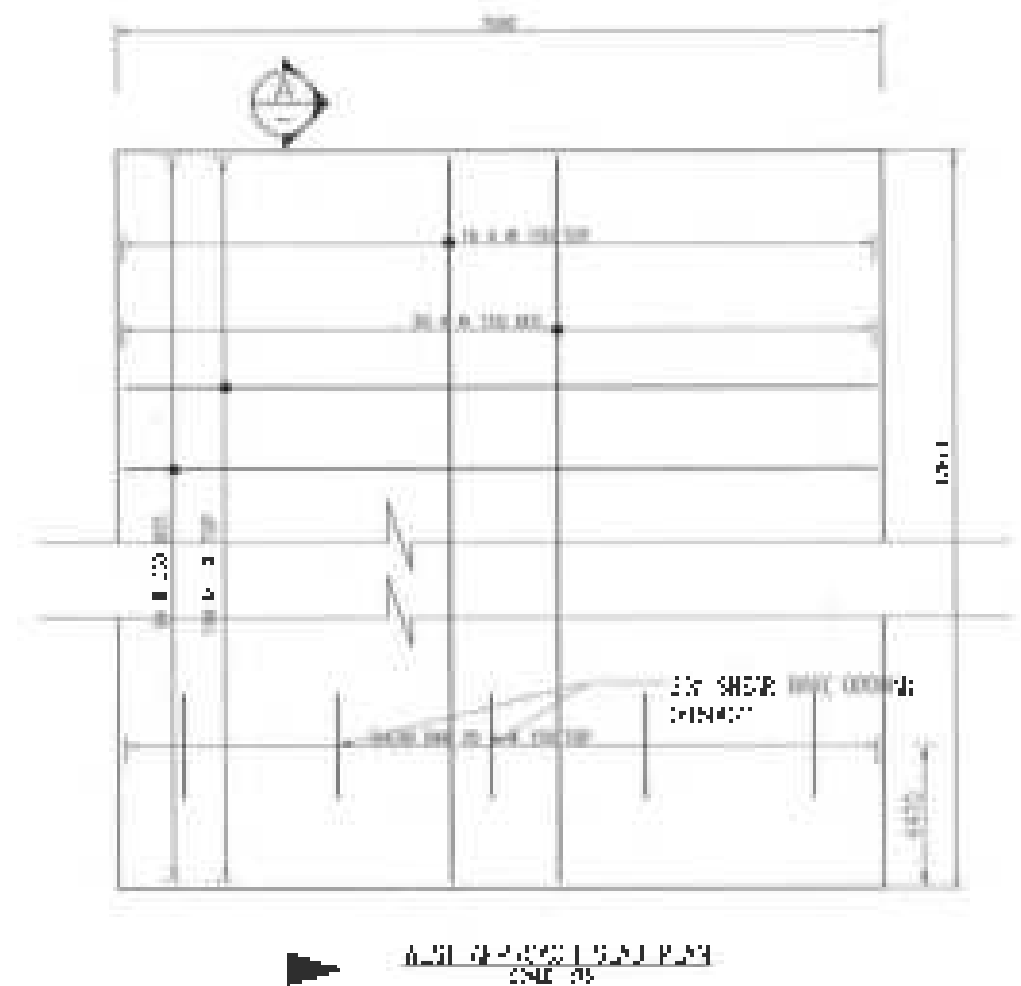


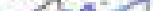
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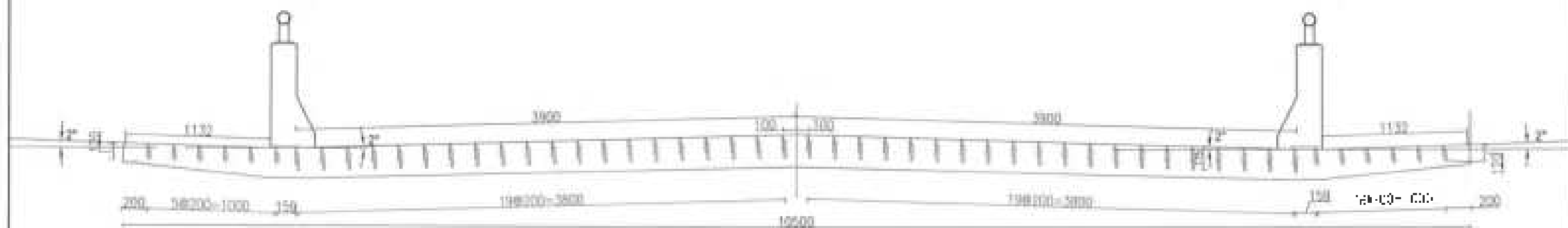
GOVERNMENT OF INDIA MINISTRY OF ROAD TRANSPORT AND HIGHWAYS DEPARTMENT OF ROADS ROAD DESIGN AND CONSTRUCTION 400, New Delhi-110002	CONTRACTOR Korea Engineering Construction Corp.	PROJECT NO. CTCE KALKA IV BALIYATAR, KATHMANDU	CONTRACT DESCRIPTION CONSTRUCTION OF KOSI BRIDGE AND APPROACHES (CHARTRA)	DRAWING NO. ASSEMBLY DRAWING LINE SPACING AND TOLERANCE AND SECTIONS	DATE 10/10/2012	SCALE AS SHOWN	SHEET NO. 37
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PROJECT INFORMATION DEPARTMENT OF ROAD & TRANSPORTATION ROAD CONSTRUCTION SECTION SECTION NO. 100/100/100 DATE: 10/10/10	DESIGNER Korea Engineering Consultant Corp.	OWNER CHAI KALIKAJY RAILWAY, KATHMANDU	PROJECT DESCRIPTION CONSTRUCTION OF KOSHI RIVER AND APPROACHES (CHARTER)	DESIGNER CHARTER DESIGNER CHARTER	DATE 10/10/10	SCALE 1:100	SECTION 100/100/100	NO. OF SHEETS 100	DATE 10/10/10
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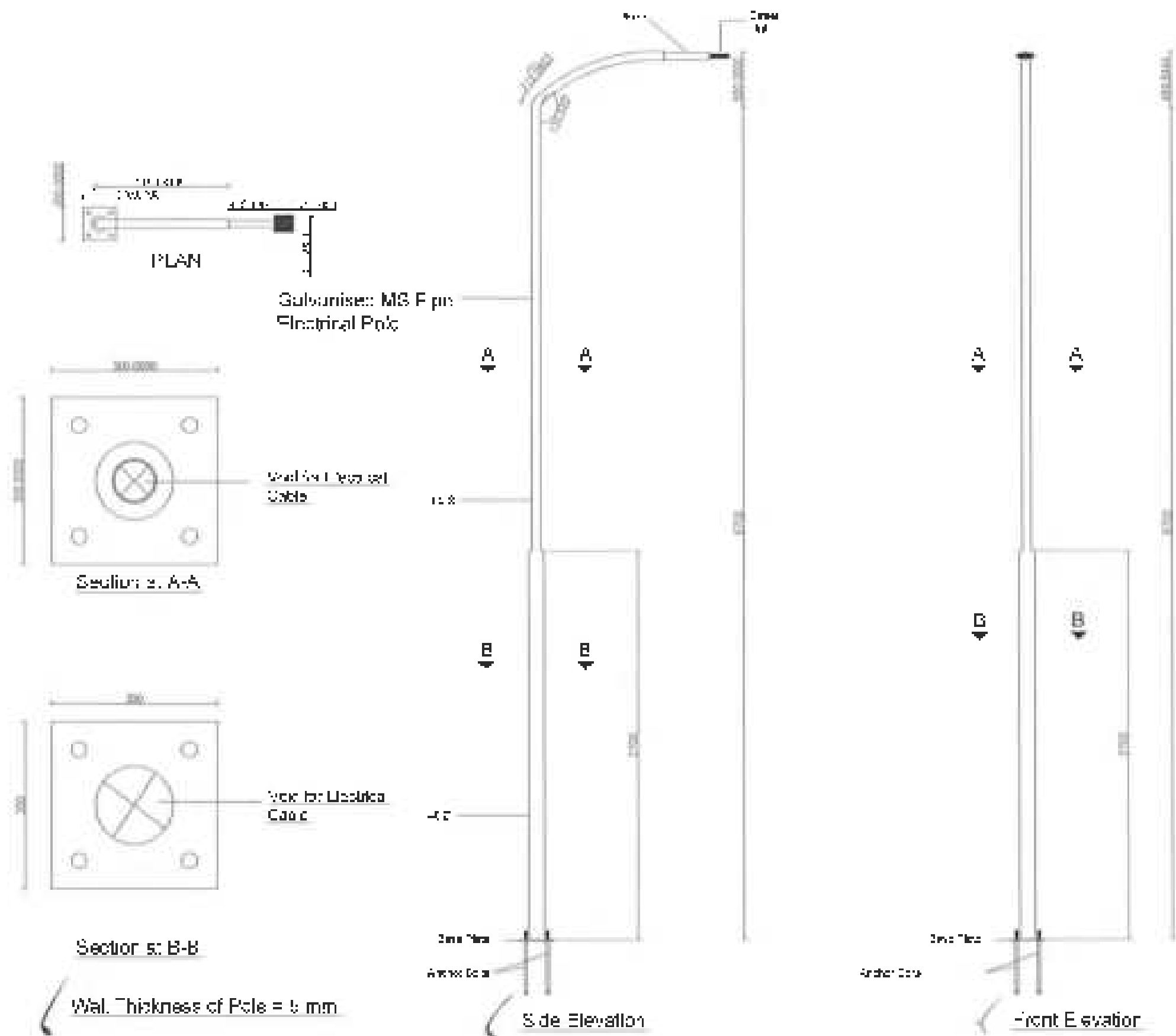
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					APPROVED BY  	DATE 10/06/2024	
					APPROVED BY  	DATE 10/06/2024	



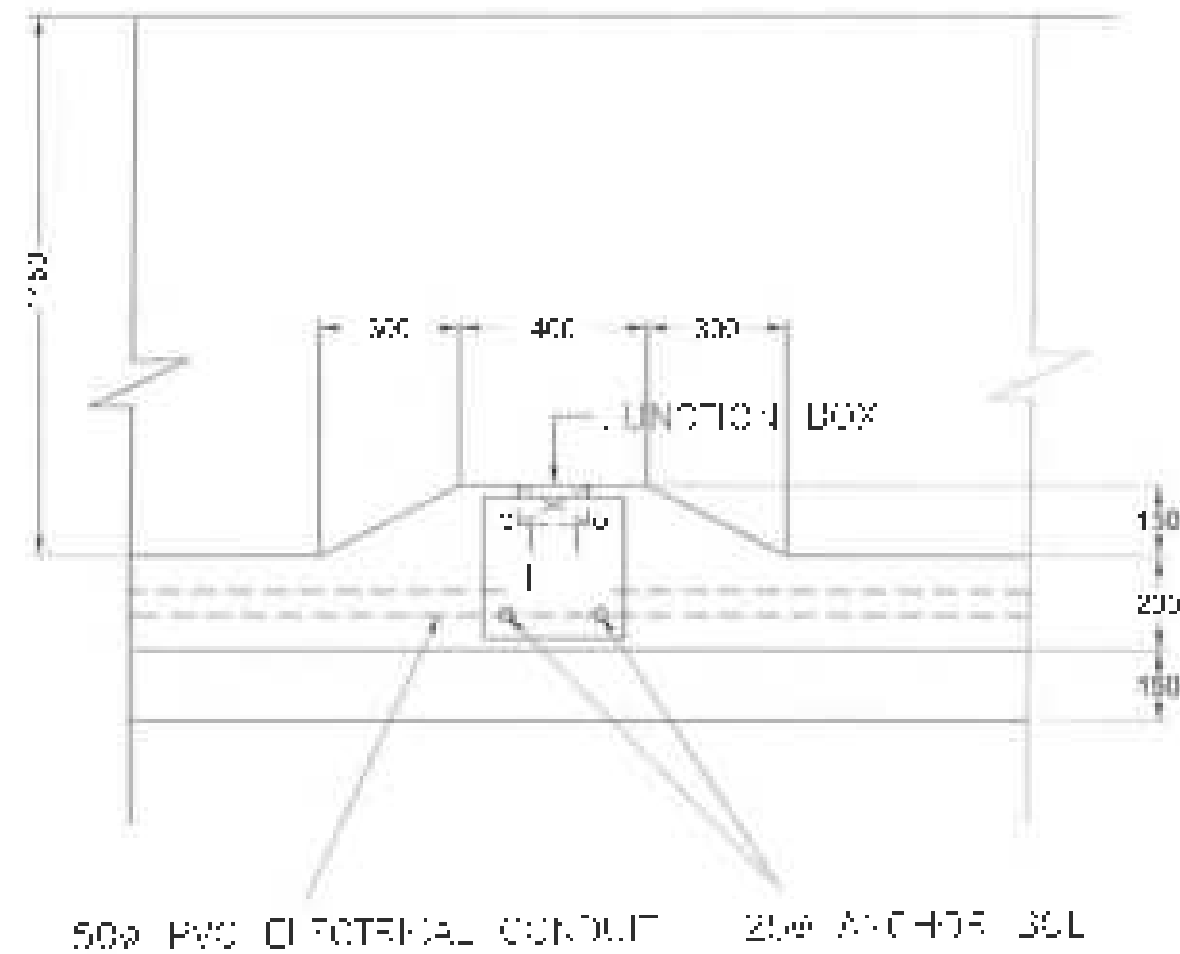
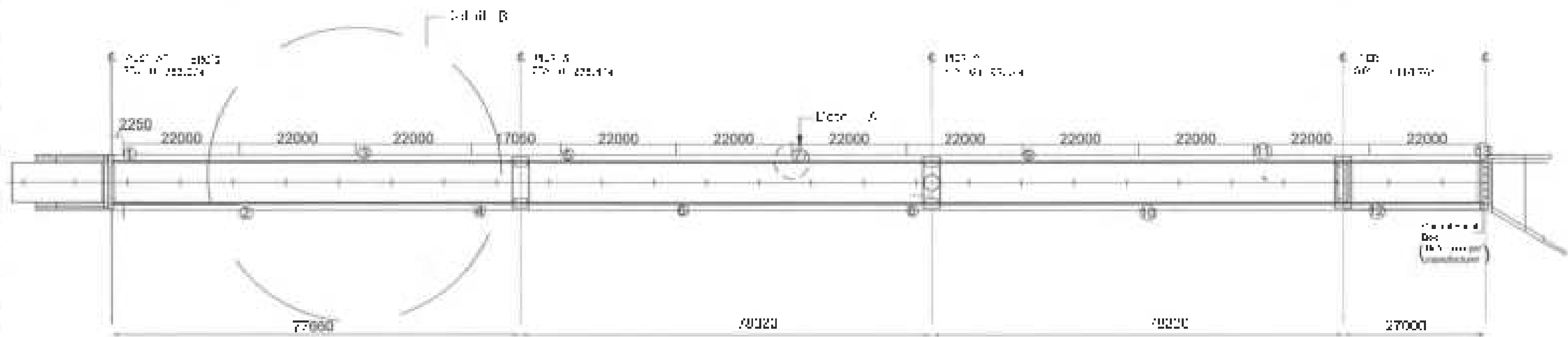
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DEPARTMENT OF HIGHWAYS MINISTRY OF TRANSPORTATION DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION 4th FLOOR, No. 2100, JINJI 100-0001, CHONGJIN, DONGHAI	YEAH Karen Engineering Consultant Corp.	PROJECT CTCT-KATIKAI IV BALI LAKE, KATIKAI	CONTRACT NO. 10/2010 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (C IATARA)	DRAWING NO. AS BUILT DRAWING EXPANSION JOINT	DATE	SCALE	AS BUILT AS BUILT	NO. OF SHEETS 42
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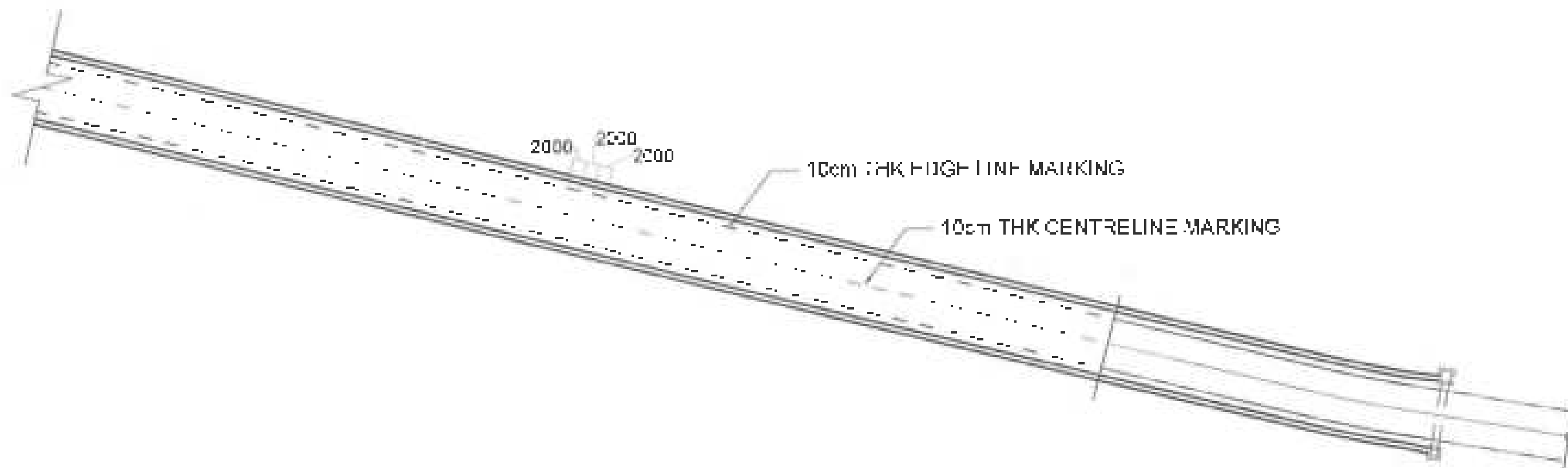


KOSHIER DSE AND APPROACHES SUPPLEMENT OF RPAIDS M/S. KALKAJI JV SALUNGA TALUK, RAYCHANDUR DIST. RAIPUR, CHHATTISGARH PIN-491001	DESIGNED Kavea Engineering Consultant Corp.	DATE: 15/05/2024 CTCE-KALKAJI JV SALUNGA TALUK, RAYCHANDUR	CONTRACT NO. E-001-00000000 CONSTRUCTION OF KOSHIER DSE AND APPROACHES (CHATARA)	DRAWING NO. 03/01/00000000 ELECTRICAL POLES	REVISION	DATE	SCALE: 1:10 AS SHOWN	SHEET 03/01/00000000 44 OF 001
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					REVISION			
					REVISION			



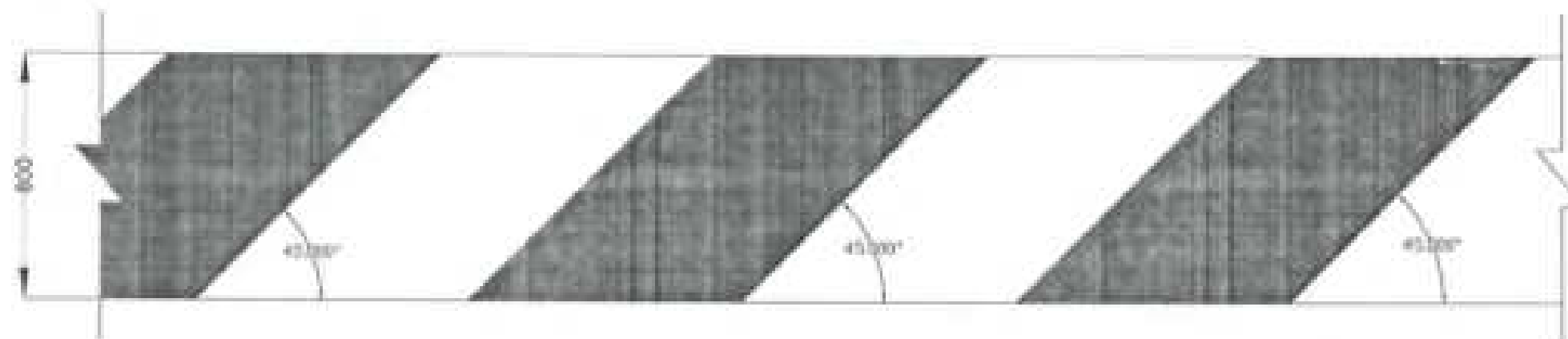
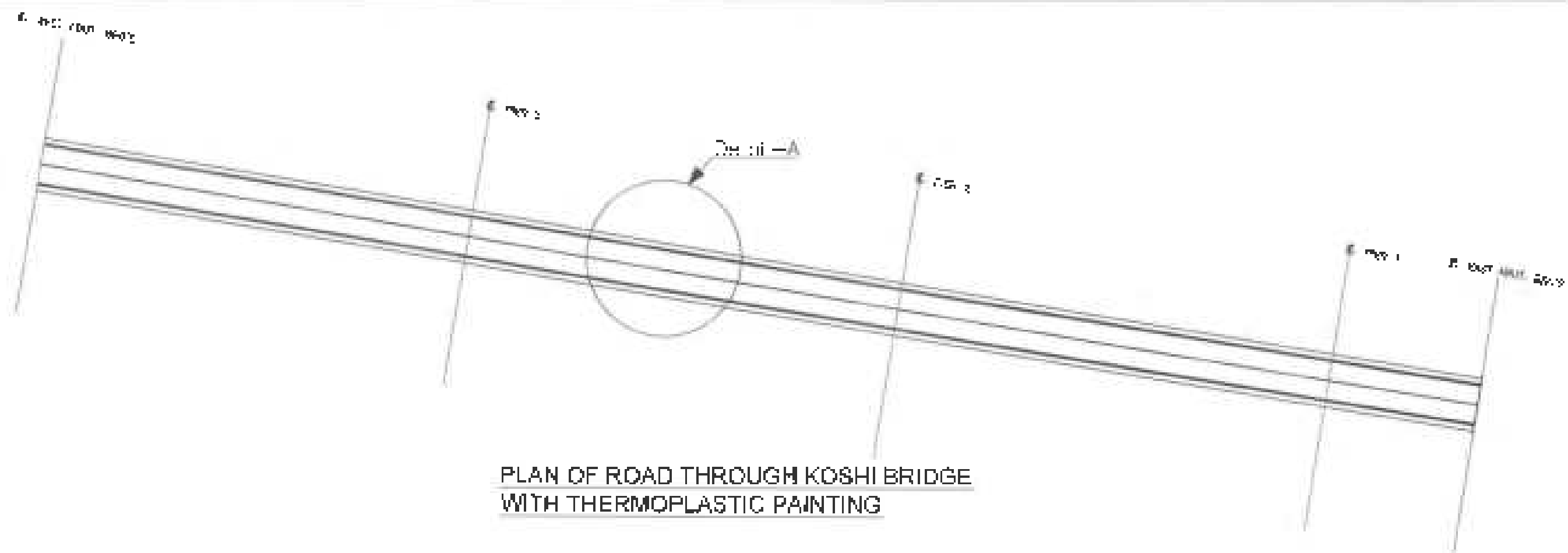
/ DETAILS AT A (7) - PLAN

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PLAN OF CENTRELINE AND EDGE LINE FOR
WESTERN APPROACH ROAD BY
THERMO PLASTIC PAINTING

CLIENT: MINISTRY OF PUBLIC WORKS, ROAD DEPARTMENT OF ROADS ROAD CONSTRUCTION Sect. 10, 11, 12, 13, 14, 15 Ex. 100, 100, 100, 100, 100, 100	CONSULTANT: Korea Engineering Consultant Corp.	PROJECT: CHILJE-KATIKAJA ROAD PROJECT, KATIKAJA	CONTRACT NO. 100-100-100-100 CONSTRUCTION OF 400M BRIDGE AND APPROACHES; CHATARA;	DRAWING NO. ASB-100-100-100-100 WESTERN APPROACH ROAD PLAN	SCALE 1:1000 1:1000 1:1000	DATE 2000.10.10 2000.10.10 2000.10.10	NO. 100 100 100	SHEET NO. 100 100 100	TOTAL SHEETS 100 100 100
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DEPARTMENT OF TRANSPORTS GENERAL CONTRACTS AND SUPERVISOR DEPARTMENT OF ROADS ROAD AND TRANSPORT PROJECT 11-11000-0000-0000-0000 11-11000-0000-0000-0000	KOREA Engineering Consultant Corp.	CITI KALIKAVA 34100 STATE ROAD 1000	CONSTRUCTION OF KOS II BRIDGE AND APPROACHES (CI ATAKA)	AS BUILT DRAWINGS THERMAL EMISSION	11-11000-0000-0000-0000 11-11000-0000-0000-0000 11-11000-0000-0000-0000	11-11000-0000-0000-0000 11-11000-0000-0000-0000 11-11000-0000-0000-0000	11-11000-0000-0000-0000 11-11000-0000-0000-0000 11-11000-0000-0000-0000	11-11000-0000-0000-0000 11-11000-0000-0000-0000 11-11000-0000-0000-0000	11-11000-0000-0000-0000 11-11000-0000-0000-0000 11-11000-0000-0000-0000
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Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING Approach Road Works

JUNE 2015

CONTRACTOR:
CTCF-KALIKA JV
Baluwatar, Kathmandu

CONSULTANT:
KECC-TMS-ERM Associates

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

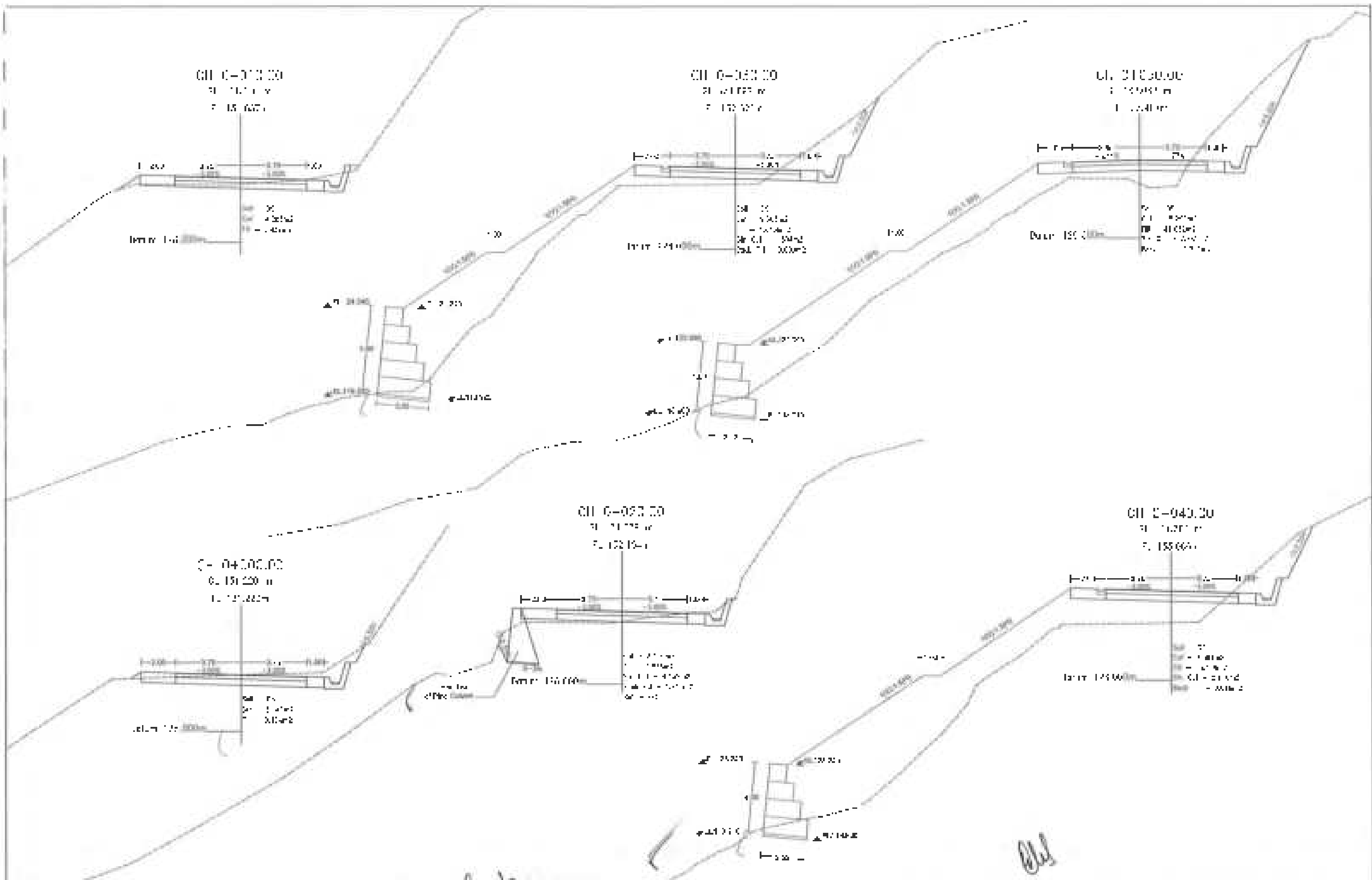
Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING Approach Road Works

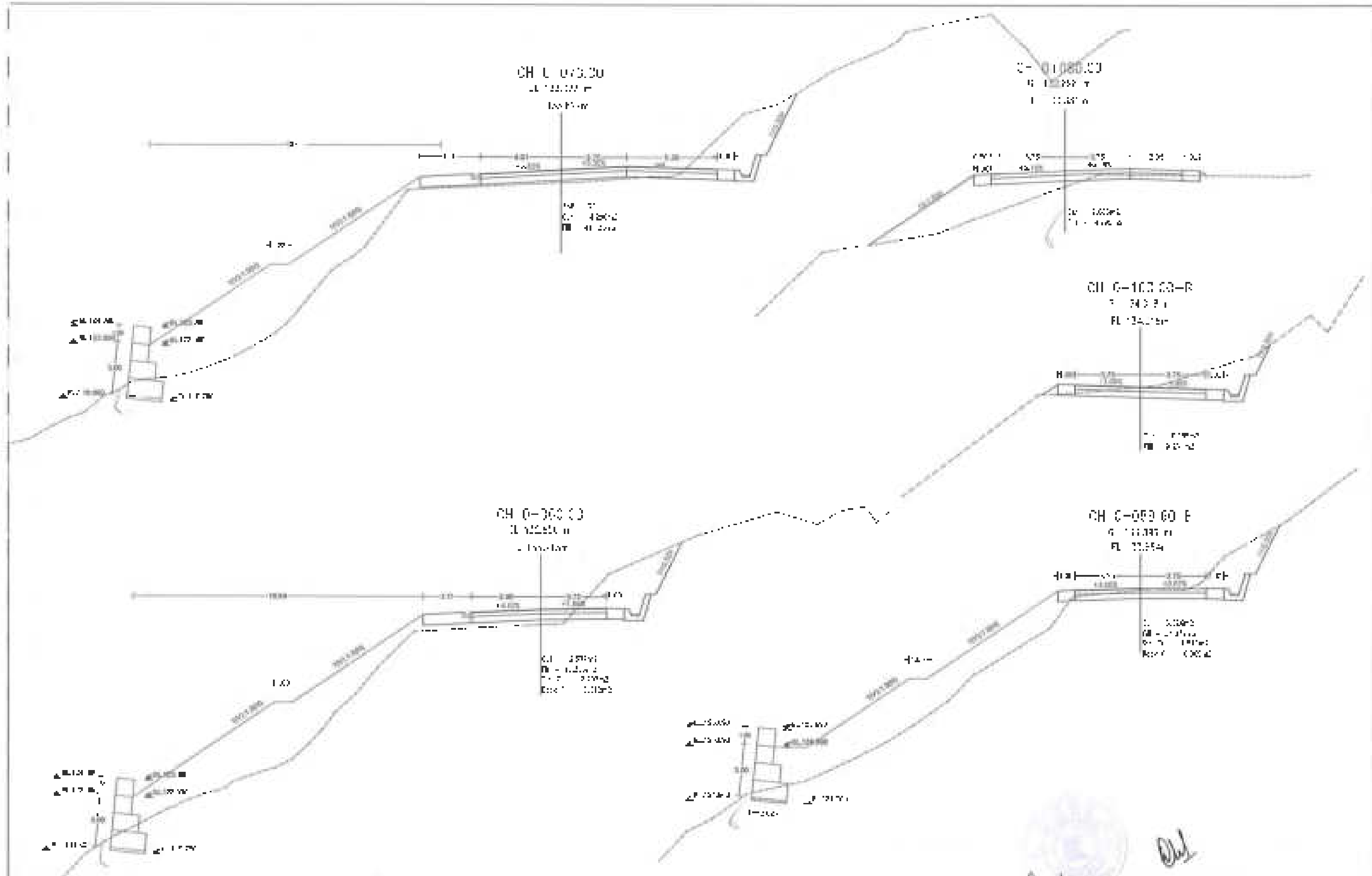
JUNE 2015

CONTRACTOR:
CTCE-KALIKA JV
Baluwatar, Kathmandu

CONSULTANT:
KECC-TMS-ENMC Associates



DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION	Korea Engineering Consultant Corp.	CTCE-KAKRA JV RAILWAY CO., KOREA	CONTRACT NO. EPC-001 CONSTRUCTION OF KOREA RAILWAY AND APPROACHES ; CHATARA ;	ASSEMBLY DRAWING FOR THE APPROACHES AND APPROACHES 0+000.00 - 0+060.00	SCALE 1:1000 1:1000 1:1000	DATE 2010.10.10 2010.10.10	DRAWN 10101010 10101010	CHECKED 10101010 10101010	DATE 2010.10.10 2010.10.10	PAGE 1 1
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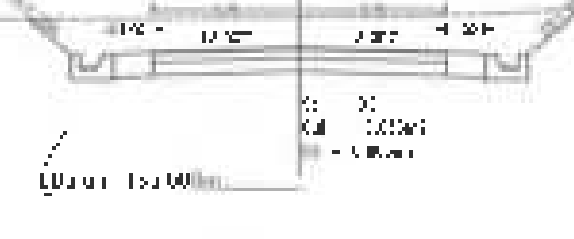
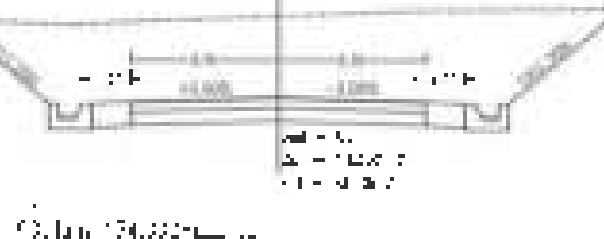


DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS	CONTRACT Korea Engineering Consultant Corp.	CONTRACT CTCE-KALINKA JV BALLYSTAIL KUTIRAKOL	CONTRACT NO. EPOF0006-00-1 CONSTRUCTION OF KISHI BRIDGE AND APPROACHES (GINTARA)	PROJECT NO. AS 0111 DEANING EASTERN & AFRICAN 27000-2007-21.5 C+090.00-0-070.00 C+100.00-0-100.00	APPROVED TO 100% (100%) 100% (100%)	DRAWN BY [Signature] [Signature]	SCALE 1:1000 1:1000	SHEET NO. 2	TOTAL SHEETS 2
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 R. 100.000 m

CH 0+450.00
 EL. 40.540 m
 R. 100.000 m

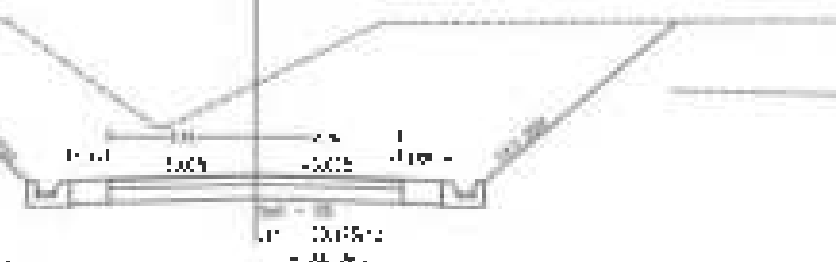
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 R. 100.000 m



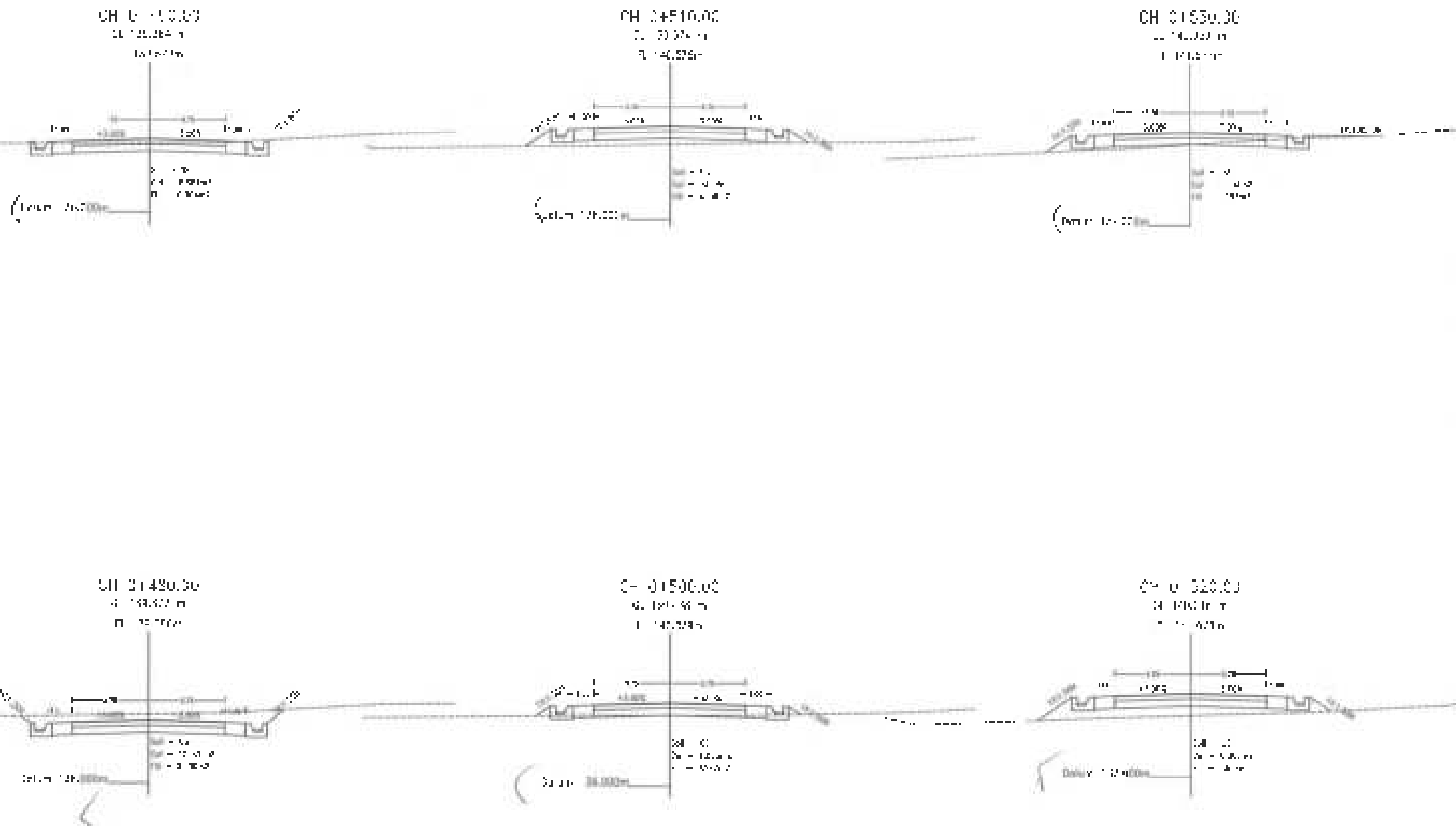
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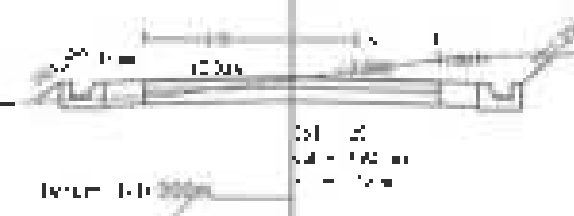
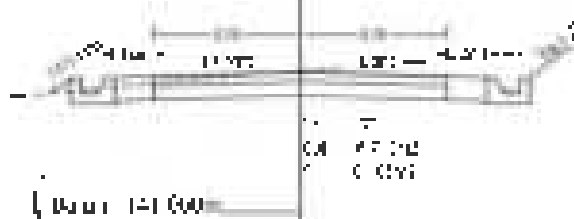
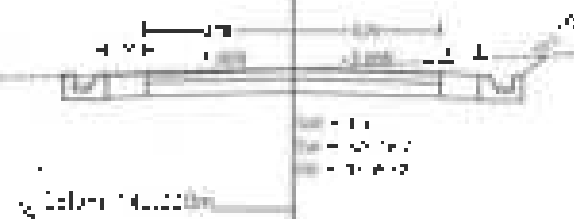
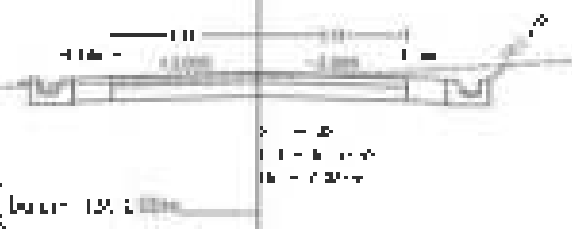
CH 0+460.00
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 R. 100.000 m



PROJECT INFORMATION DEPARTMENT OF ROADS ROAD DEVELOPMENT AND MAINTENANCE 400 Chaurahi, Kathmandu Nepal	CONSULTANT Kure Engineering Consultant Corp.	CONTRACTOR CTCE-KALRA JV BALUWATAR, KATHMANDU	CONTRACT NO. E-M04/02/01 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CH 0+400.00 - 0+470.00)	DRAWING NO. ASSEMBLY DRAWING WESTERN APPROACH ROAD CH 0+400.00 - 0+420.00	SCALE 1:1000 1:2000 1:5000	DESIGNER T. T.	CHECKER T. T.	APPROVED T. T.	SHEET NO. 02/04/02/01 OF 4
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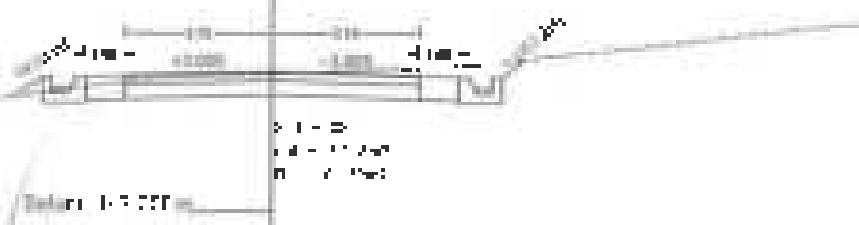


DEPARTMENT OF ROADS KATHMANDU	Korea Engineering Consultant Corp.	CTCE KATIKI JV KATHMANDU, KATHMANDU	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CH 0+100.00)	AS PER THE WESTERN A 1110001 (KOSHI) CROSS-SECTIONS CH 0+100.00 - CH 0+530.00	DATE 10/01/2018	DATE 10/01/2018	DATE 10/01/2018	DATE 10/01/2018	DATE 10/01/2018
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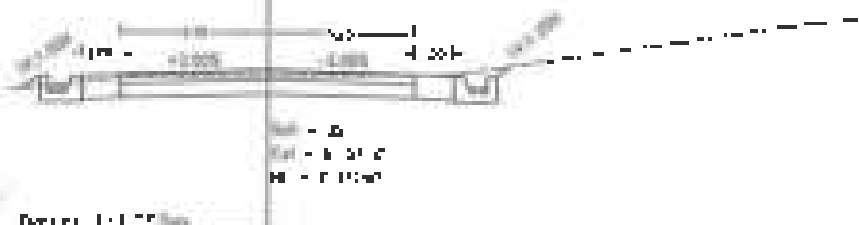


CONTRACTING ORGANIZATION JAPANESE INTERNATIONAL COOPERATION DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION, FIRST SECTION, BUILDING 1-200 1-2-200, Kojimachi, Chiyoda-ku, Tokyo 100, Japan	CAPSHEET Kosei Engineering Consultants Corp.	DRAWING  CHIKAKALUKA JY HALLWAYMAN, KATHMANDU	CONTRACTING REFERENCE NO. CONSTRUCTION OF KOSHIKURU JCB AND APPROACHES (CHITARA)	PROJECT NAME ASBUL CHANGING WESTERN APPROACH ROAD APPROACHES CHITARA	DRAWING NO. 1-2-200	DATE 1998	SCALE 1:1000	SHEET NO. 1
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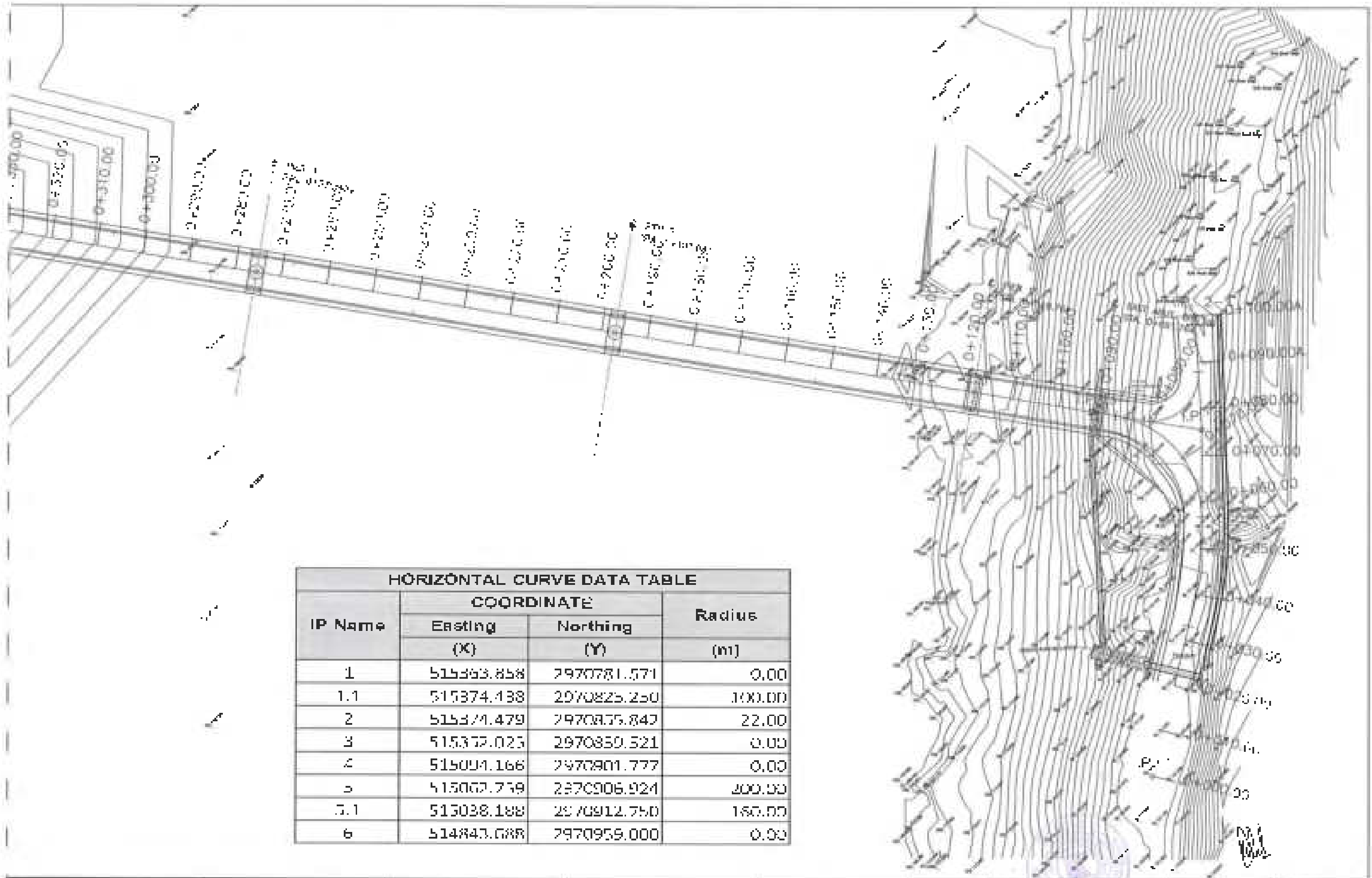


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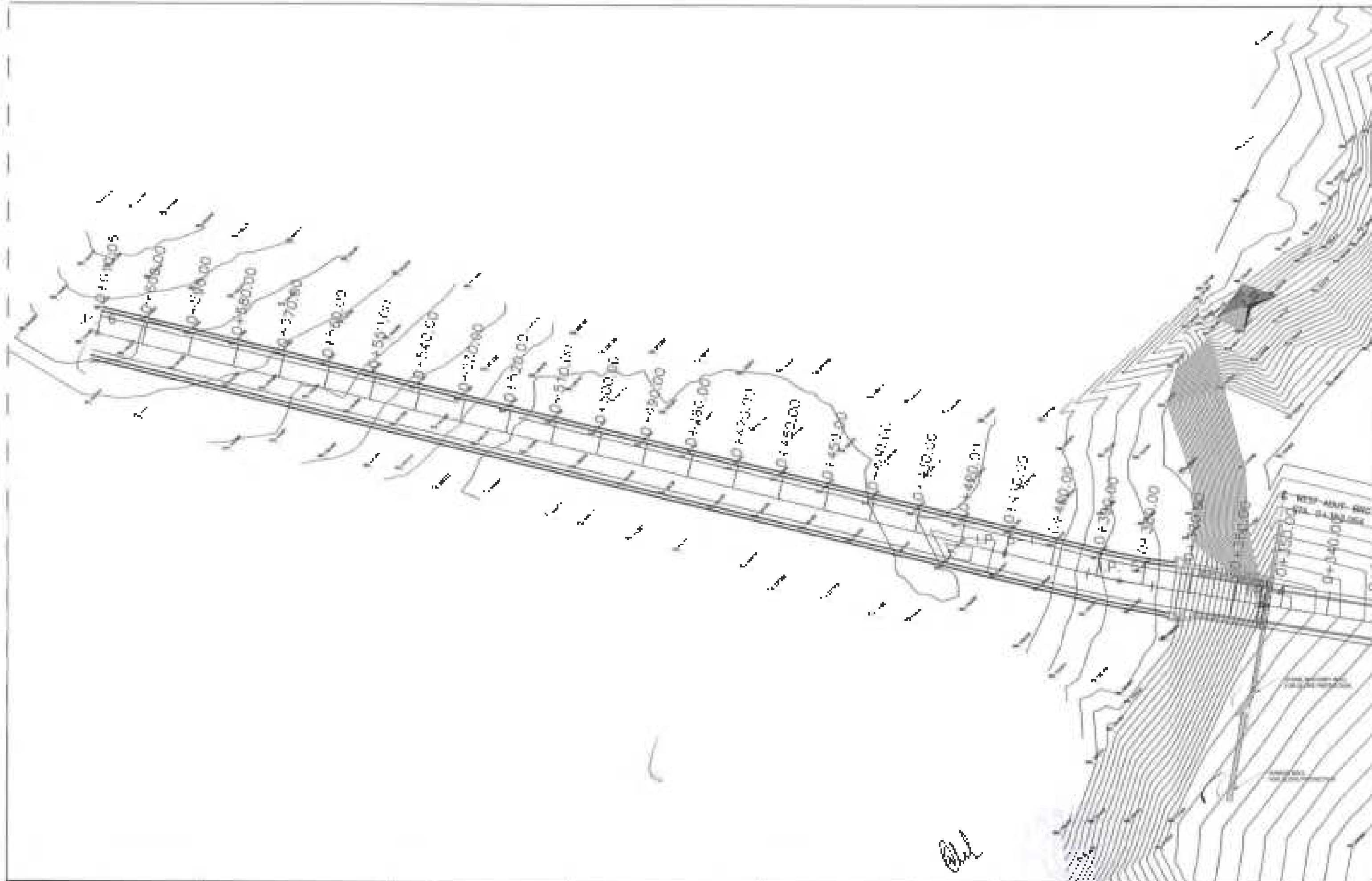


Depth 14.00m

DEPARTMENT OF HIGHWAY DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION ADDITIONAL CHIEF ENGINEER KATHMANDU	TYPE Korea Engineering Consultant Corp.	CONTRACT NO. CTCE-KA/KA JV HAILAVATAR, KATHMANDU	CONTRACT NO. (TERRACE) CONSTRUCTION OF KCSH BRIDGE AND APPROACHES (CHAIARA)	DRAWING NO. AS BUILT DRAWING WESTERN APPROACH ROAD CH 0+000.00 TO CH 0+010.00	SCALE 1:1000 1:1000	DATE 2073/08/15	TYPE AS BUILT	SCALE 1:1000	SHEET NO. 7
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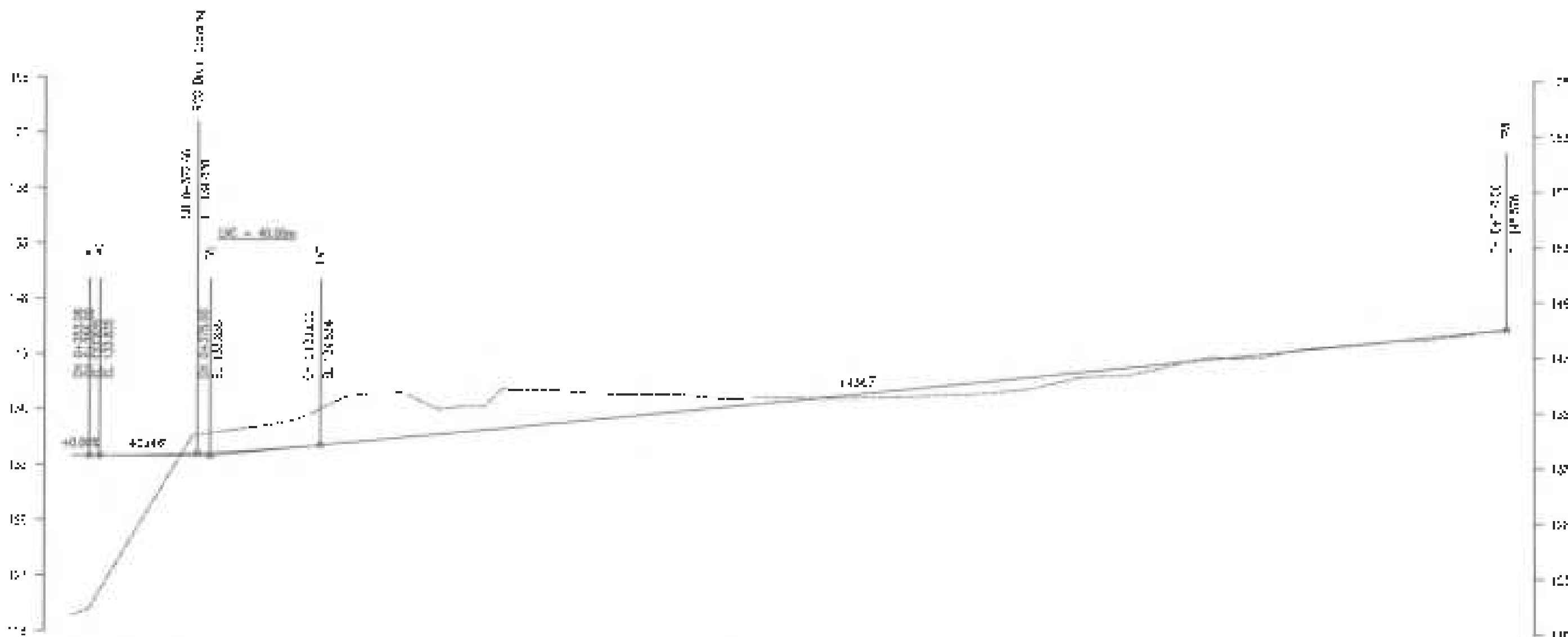


1. PROJECT NAME KOSHI BRIDGE AND APPROACHES 2. PROJECT LOCATION CHATARA, KOSHI PROVINCE, NEPAL 3. PROJECT OWNER KOSHI DEVELOPMENT CORPORATION	4. CLIENT Koshi Engineering (Consultant) Co., Pvt.	5. DESIGNER CHITRA-BAHUKA JY HILL WATER ESTIMATION	6. CHECKED BY CHITRA-BAHUKA JY KOSHI BRIDGE AND APPROACHES (CHATARA)	7. APPROVED BY CHITRA-BAHUKA JY KOSHI BRIDGE AND APPROACHES (CHATARA)	8. SCALE 1:1000	9. DATE 2070/08/25	10. DRAWN BY CHITRA-BAHUKA JY	11. CHECKED BY CHITRA-BAHUKA JY	12. APPROVED BY CHITRA-BAHUKA JY
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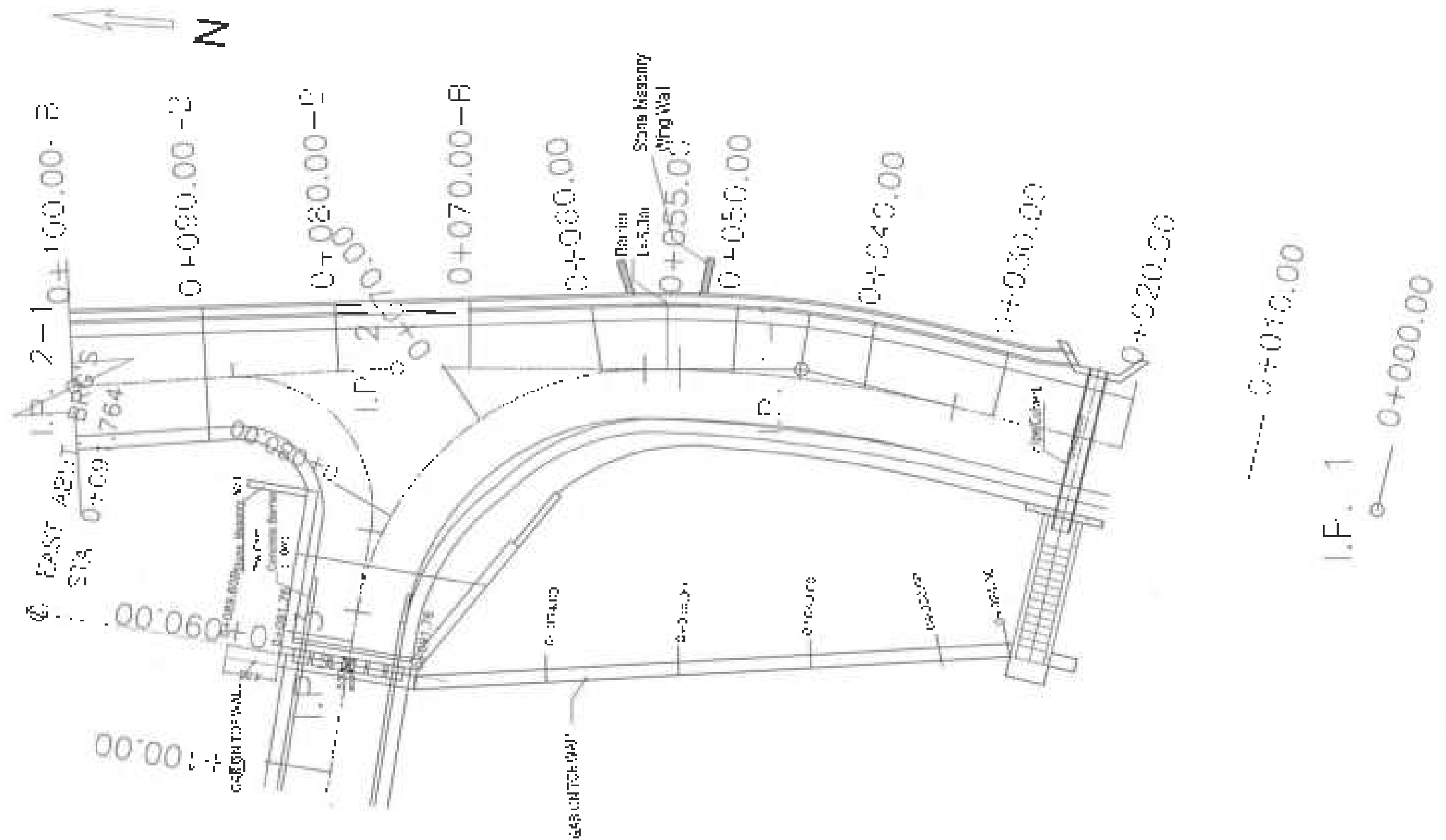


GOVERNMENT OF NAGALAND DEPARTMENT OF INFRASTRUCTURE CONSTRUCTION AND MAINTENANCE DIVISION	CLIENT Korea Engineering Consultant Corp.	PROJECT CHITRA-KALIKA JV RAILWAY BRIDGE, KACHAR	CONTRACT NO. PC/2000/0000000000 CONSTRUCTION OF KOS II BRIDGE AND APPROACHES (CHITARA)	CONTRACTOR ASIA PACIFIC CONSTRUCTION WESTERN APPROACH ROAD WORK	DATE 10/10/2010	APPROVED <i>[Signature]</i> 10/10/2010	SCALE 1:1000	REVISION 1	DATE 10/10/2010
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CHAIN No. (m)	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800	2+900	3+000
EXISTING LEVEL (m)	119.47	125.80	131.18	135.26	137.14	138.25	138.86	139.00	139.14	139.28	139.42	139.56	139.70	139.84	139.98	140.12	140.26	140.40	140.54	140.68	140.82
CHARGE (m)	1+000	1+100	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800	2+900	3+000

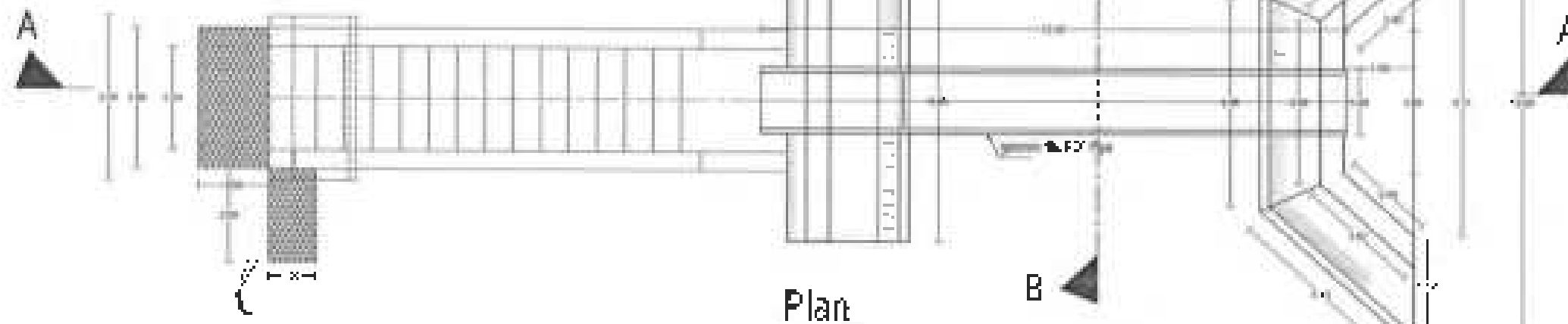


PREPARED BY: ENGINEER/DESIGNER/ DEPARTMENT OF ROADS KATHMANDU, NEPAL. APPROVED BY: PROJECT MANAGER/ DEPARTMENT OF ROADS	CONSULTANT Korea Engineering Consultant Corp.	PROJECT CTCE-KALINA JV BALUNYATAI, KATHMANDU	CONTRACT NO. CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATAHA)	DRAWING NO. AS BUILT DRAWING WESTERN APPROACHES AND PROFILE	DATE	REVISION	BY	DATE	DATE
					DATE	REVISION	BY	DATE	DATE
					DATE	REVISION	BY	DATE	DATE

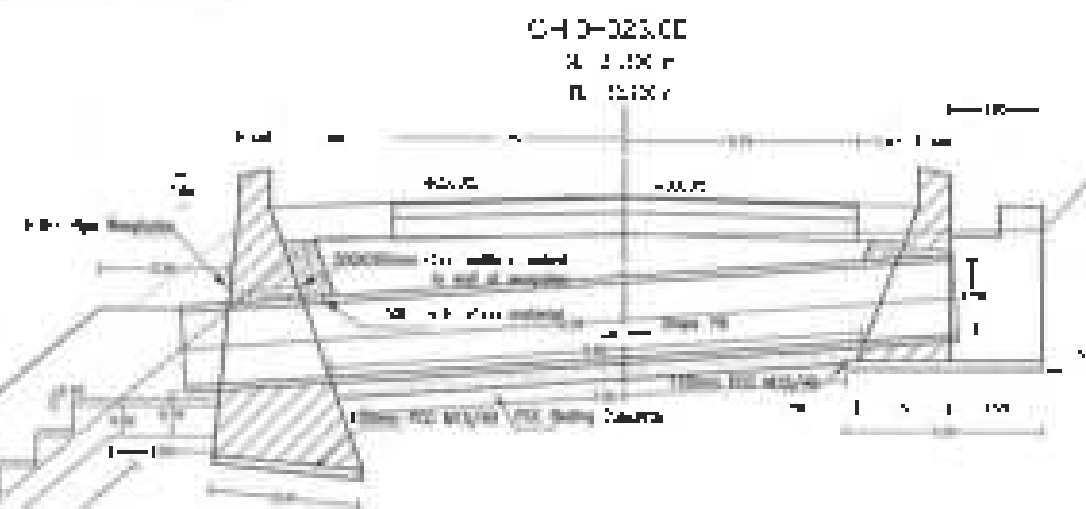


Plan of East Approach Road with Intersection and Slope Protection Wall

DEPARTMENT OF ROADS MINISTRY OF TRANSPORTATION ROAD DESIGN DIVISION	CONSULTANT Korea Engineering Consultant Corp.	WORK ITEM CIVIL-KA1 TRAIL BALJOVAL, KATHMANDU	CONTRACT NO. EP-0000000000 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	DRAWING NO. AS-BUILT DRAWING PLAN OF EASTERN APPROACH ROADWAY INTERSECTION AND SLOPE PROTECTION WALL	PROJECT NO. 100-0000000000	SHEET NO. 100-0000000000	DATE 100-0000000000	SCALE 1:1000	APPR. 100-0000000000	CHECKED 100-0000000000	DATE 100-0000000000
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Plan
Pipe Culvert with Stone Masonry Chute and Cut Off wall



Section at A-A

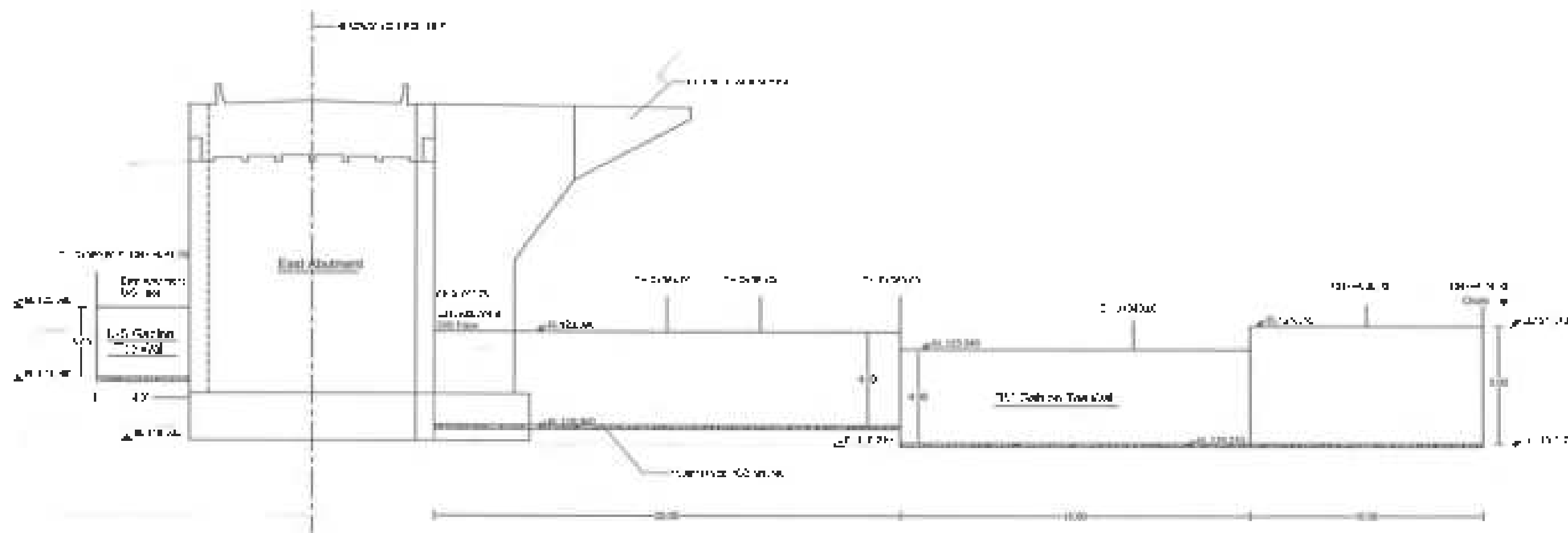
Pipe Culvert with Stone Masonry Chute and Cut Off Wall



Section at B-B

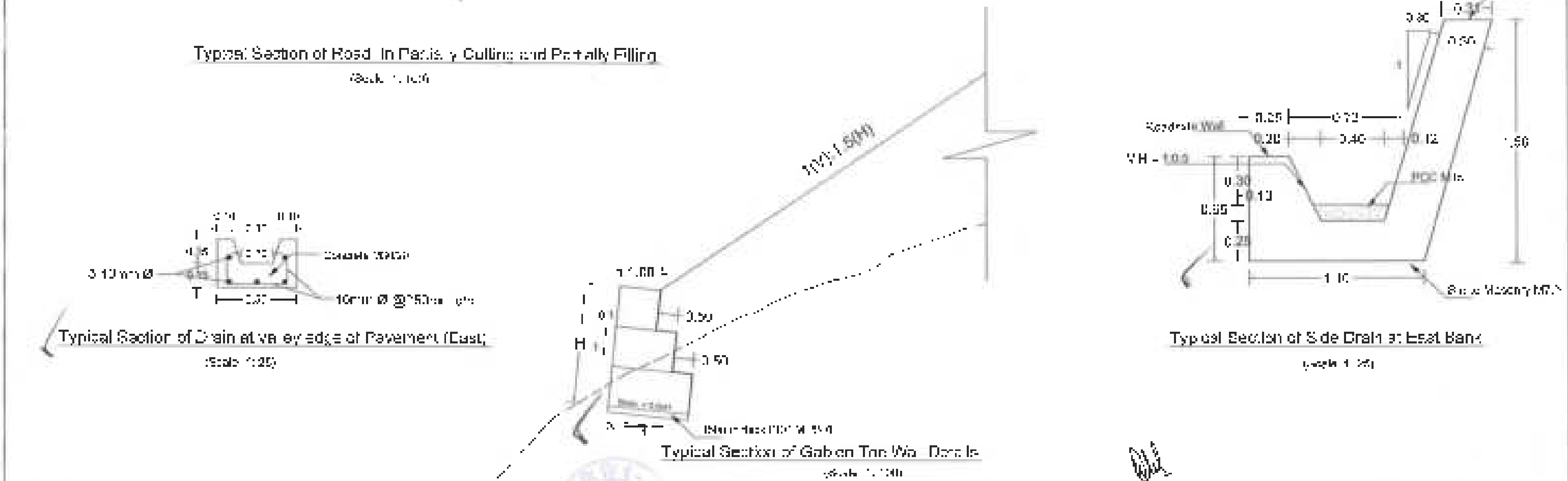
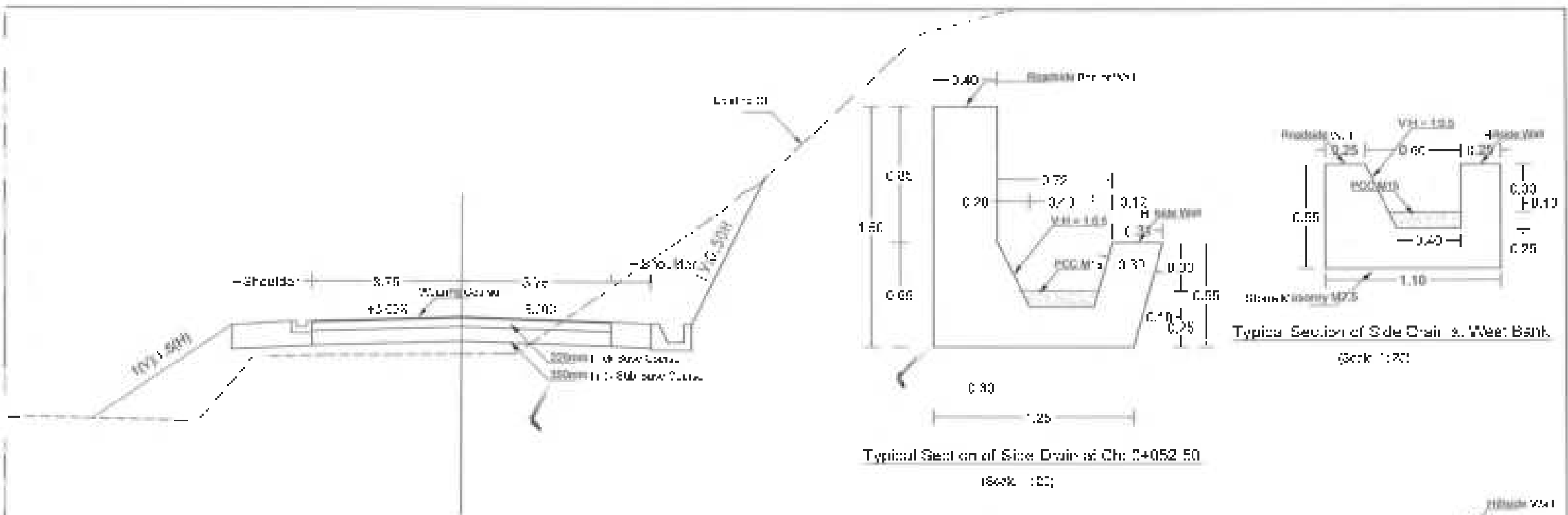
Scale: 1 : 100

PROJECT NAME: KOSHI RIDGE AND APPROACHES DEPARTMENT OF ROADS KOSHI PROVINCE, NEPAL PROJECT NO. KOSHI/2072/1 SCALE: 1:100	DESIGNED BY: Karna Engineering Consultant Corp.	CHECKED BY: CTCINOLRA JV RAJ KUMAR, RAJ KUMAR	CONTRACT NO. KOSHI/2072/1 CONSTRUCTION OF KOSHI RIDGE AND APPROACHES (CH. 1000)	DRAWING NO.: ASB/1000/1 SHEET NO. 1 OF 1 APPROACH ROAD WORK	DATE: 2072/10/10 SCALE: 1:100 DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i> SCALE: 1:100 DRAWN BY: <i>[Signature]</i>	PROJECT NO.: KOSHI/2072/1 SHEET NO.: 1 OF 1 SCALE: 1:100	PROJECT NO.: KOSHI/2072/1 SHEET NO.: 1 OF 1 SCALE: 1:100
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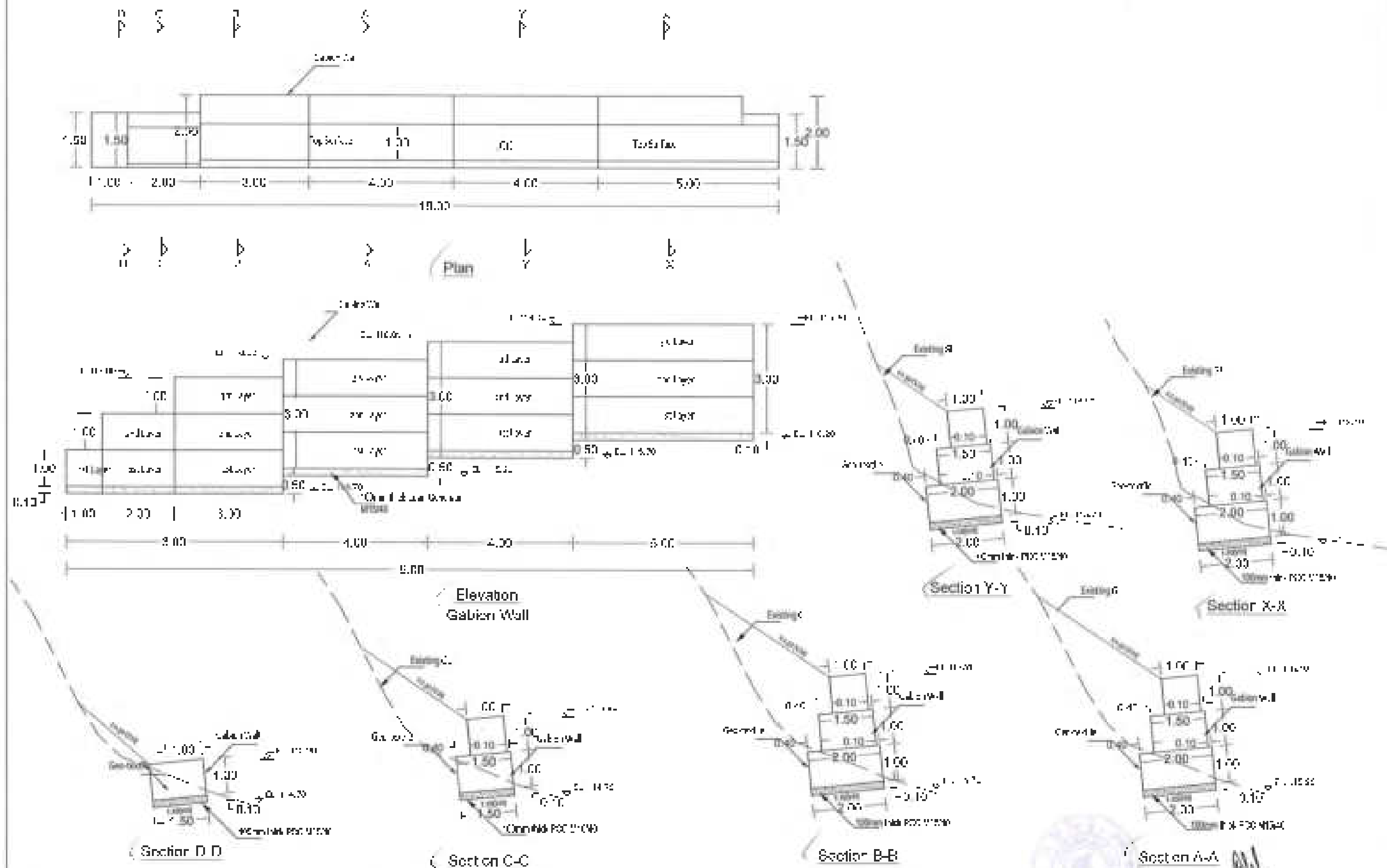


Elevation of East Abutment with Toe Wall at U/S and D/S

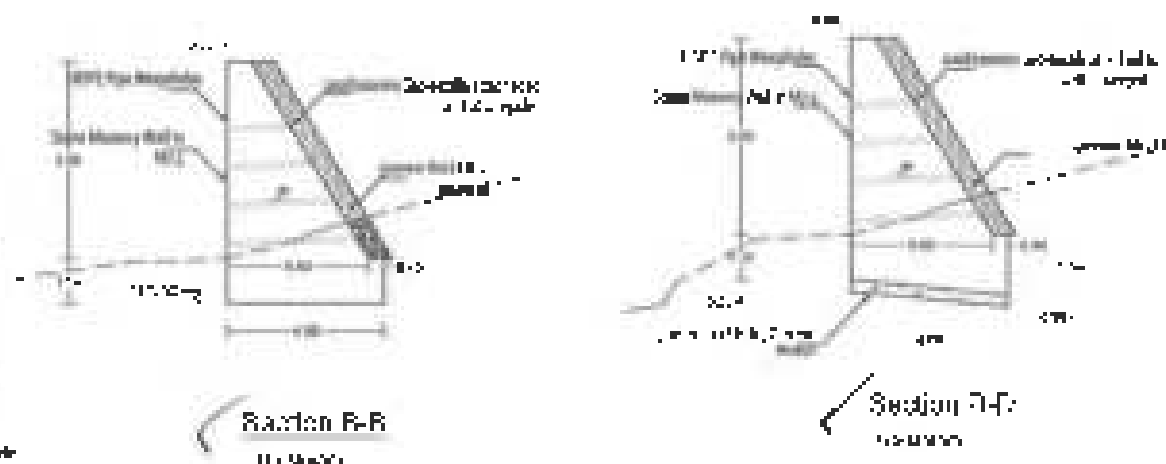
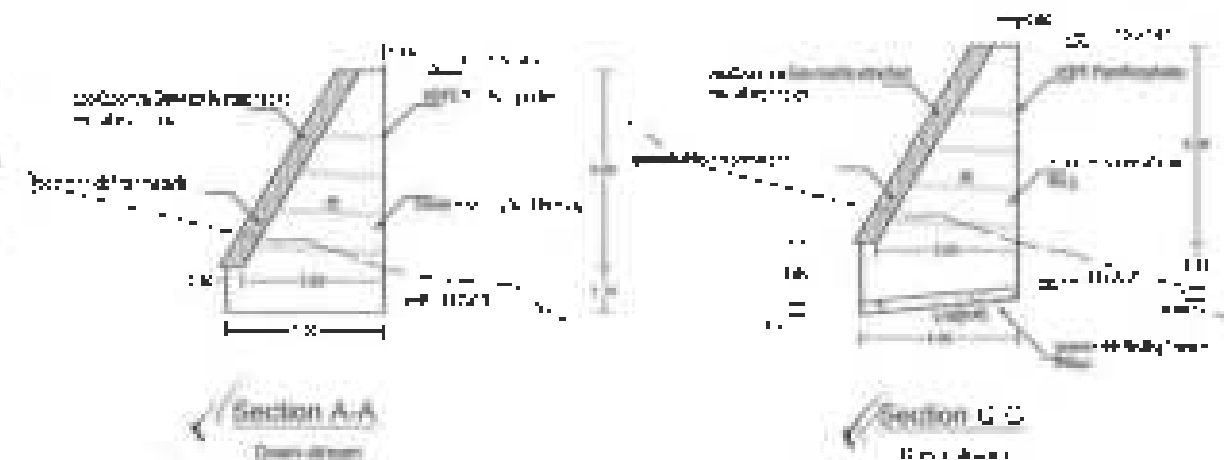
DEPARTMENT OF ROADS KOREA ENGINEERING CONSULTANT CORP.	Korea Engineering Consultant Corp.	CHONG-KALUKA JV NATURAL GAS SATELLITE	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA ;	SECTION TOE WALL; Slope 1:1 (vertical to horizontal)	ASSEMBLY DRAWING SECTION	DATE 2014.11.10	SCALE 1:100	NO. 15	15
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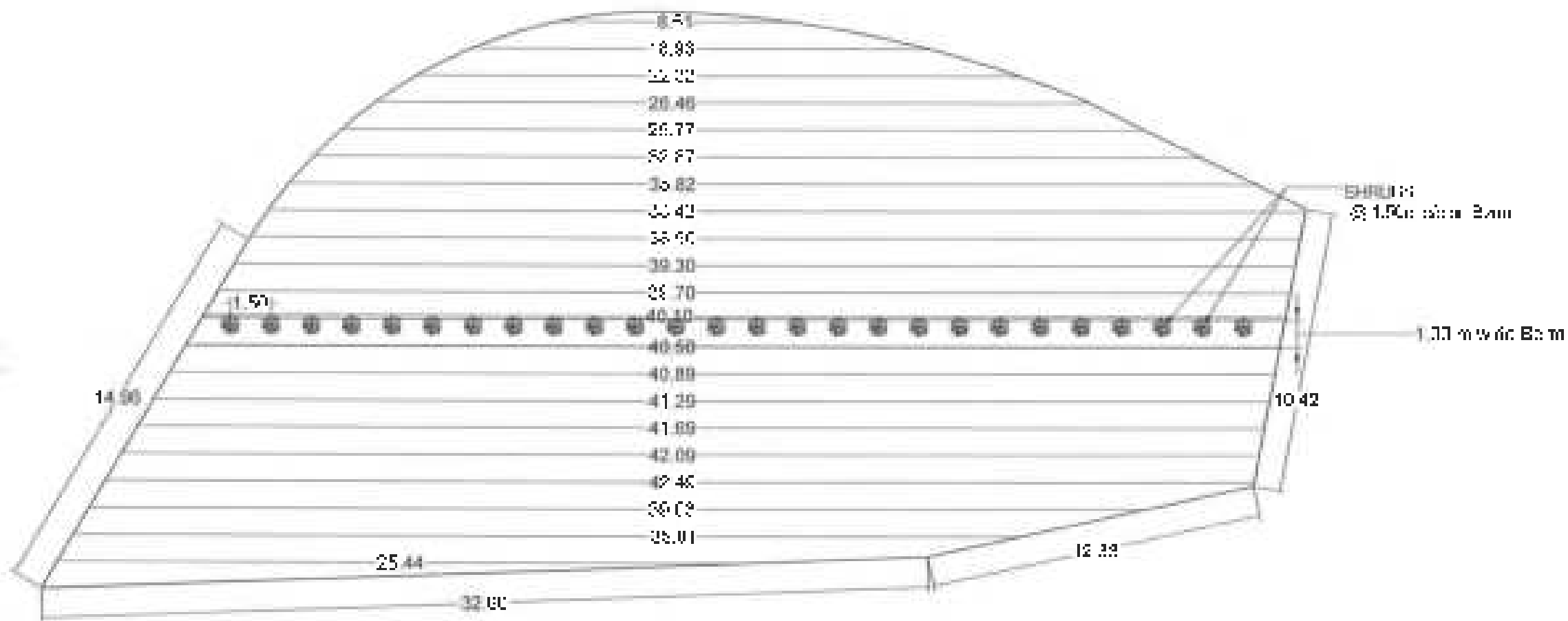
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PROJECT DEPARTMENT OF ROADS KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	DESIGNED BY Kuma Engineering Consultant Corp.	CHECKED BY CHIEF-ENGINEER JV KOSHI BRIDGE AND APPROACHES PROJECT	CONTRACT NO. KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	DRAWING NO. KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	DATE KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	SCALE KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	SHEET NO. KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT	TOTAL SHEETS KOSHI BRIDGE AND APPROACHES PROJECT KOSHI BRIDGE AND APPROACHES PROJECT
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[illegible]

BIO-ENGINEERING WORKS AT LAST SIDE APPROACH ROAD (D/S OF EAST ABUTMENT)



PLAN FOR MEASUREMENT OF GRASS SLIP LENGTH
EAST SIDE APPROACH ROAD (BETWEEN ROAD EDGE AND ICE WALL) D/S OF EAST ABUTMENT
Grass Slip = 717.583 m

GOVERNMENT OF NAGALAND MINISTRY OF INDUSTRIES, PLANNING AND DEPARTMENT OF INDUSTRIES ROOM NO-100, 1st FLOOR, 1st FLOOR, 1st FLOOR, 1st FLOOR YOUNG JEROME ROAD, DISANG COCHIN, KERALA	K. P. J. S. ENGINEERING ASSOCIATES K. P. J. S. ENGINEERING ASSOCIATES K. P. J. S. ENGINEERING ASSOCIATES K. P. J. S. ENGINEERING ASSOCIATES K. P. J. S. ENGINEERING ASSOCIATES		APPROACH ROAD AS PER THE ROAD DESIGN WORK BLIND TIE ROAD AND TIE ROAD APPROACH ROAD APPROACH ROAD	DATE: 10/10/2023 DRAWN BY: [Signature] CHECKED BY: [Signature]	CONTRACT NO. 17A APPROACH ROAD OF KOSHI BRIDGE APPROACH ROAD OF KOSHI BRIDGE APPROACH ROAD OF KOSHI BRIDGE APPROACH ROAD OF KOSHI BRIDGE APPROACH ROAD OF KOSHI BRIDGE	NO. 17A NO. 17A NO. 17A NO. 17A NO. 17A
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Shrubs - 331.00 nos.

47

BIO-ENGINEERING WORKS AT EAST SIDE APPROACH ROAD (D/S OF EAST ABUTMENT)

(SLOPE = 3%)

CH 0+040.00

SL 131.263 m

FL 133.080m

SHRUBS @ 1.50m c/c

2.00 3.75 3.75 1.00
-3.00% -3.00%

1(V):1.5(H)
1.50
1.50

1.00 m wide Berm

GRASS SLIPS
(CONTOUR HORIZONTAL)

1(V):1.5(H)

SHRUBS @ 1.50m c/c

Other Traffic

4.00

SECTION A-A

0.01

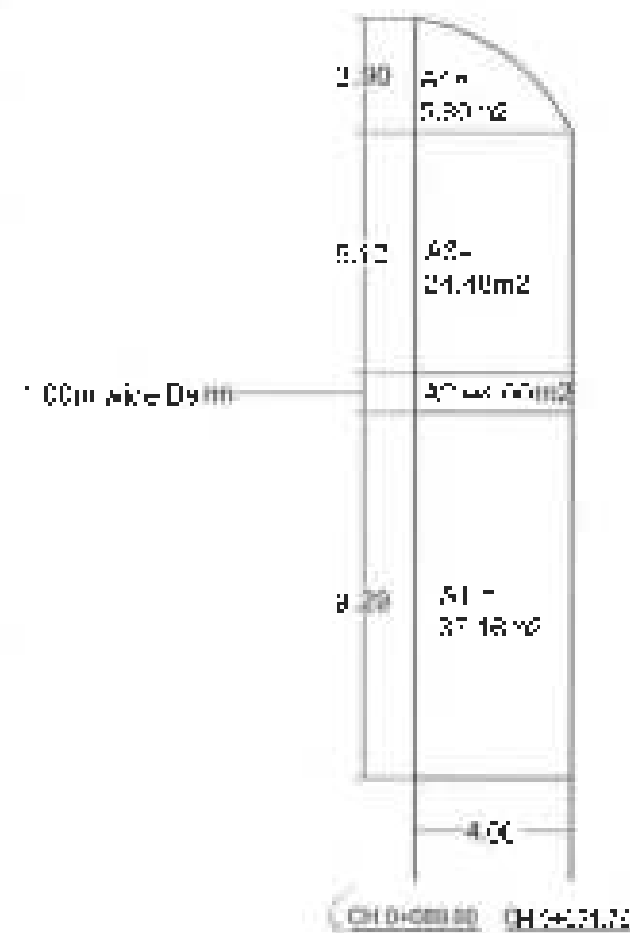
DEPARTMENT OF ROADS KOSHI PROVINCE KATHMANDU	ENGINEER KYOICHI KIMURA KYOICHI KIMURA ASSOCIATES		DESIGNED AS BUILT DRAWING BIO-ENGINEERING WORKS BETWEEN EAST SIDE APPROACH ROAD AND EAST ABUTMENT	DATE: 10/10/2019 BY: [Signature] CHECKED: [Signature]	NO. 101	101	101	CONTRACT NO. T-101/2019 APPROACH ROAD OF KOSHI BRIDGE	SCALE 1:1000 13
---	--	--	--	--	----------------	------------	------------	--	--------------------------------

BIO-ENGINEERING WORKS AT EAST SIDE APPROACH ROAD (U/S OF EAST ABUTMENT)

Gross Slope - 89.910m

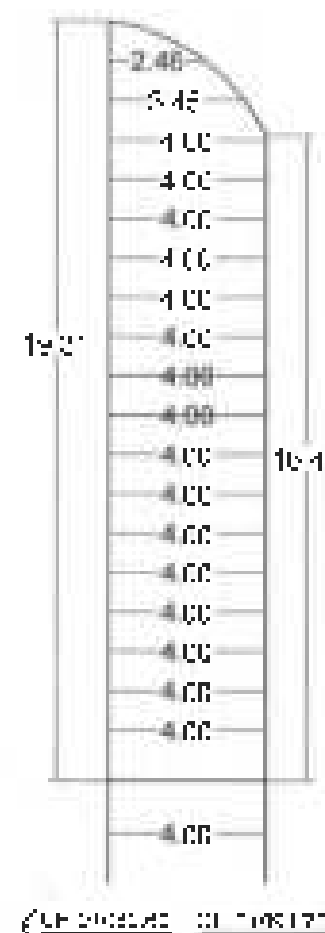
Shrubs - 32.60 nos

(SLOPE = 30°)



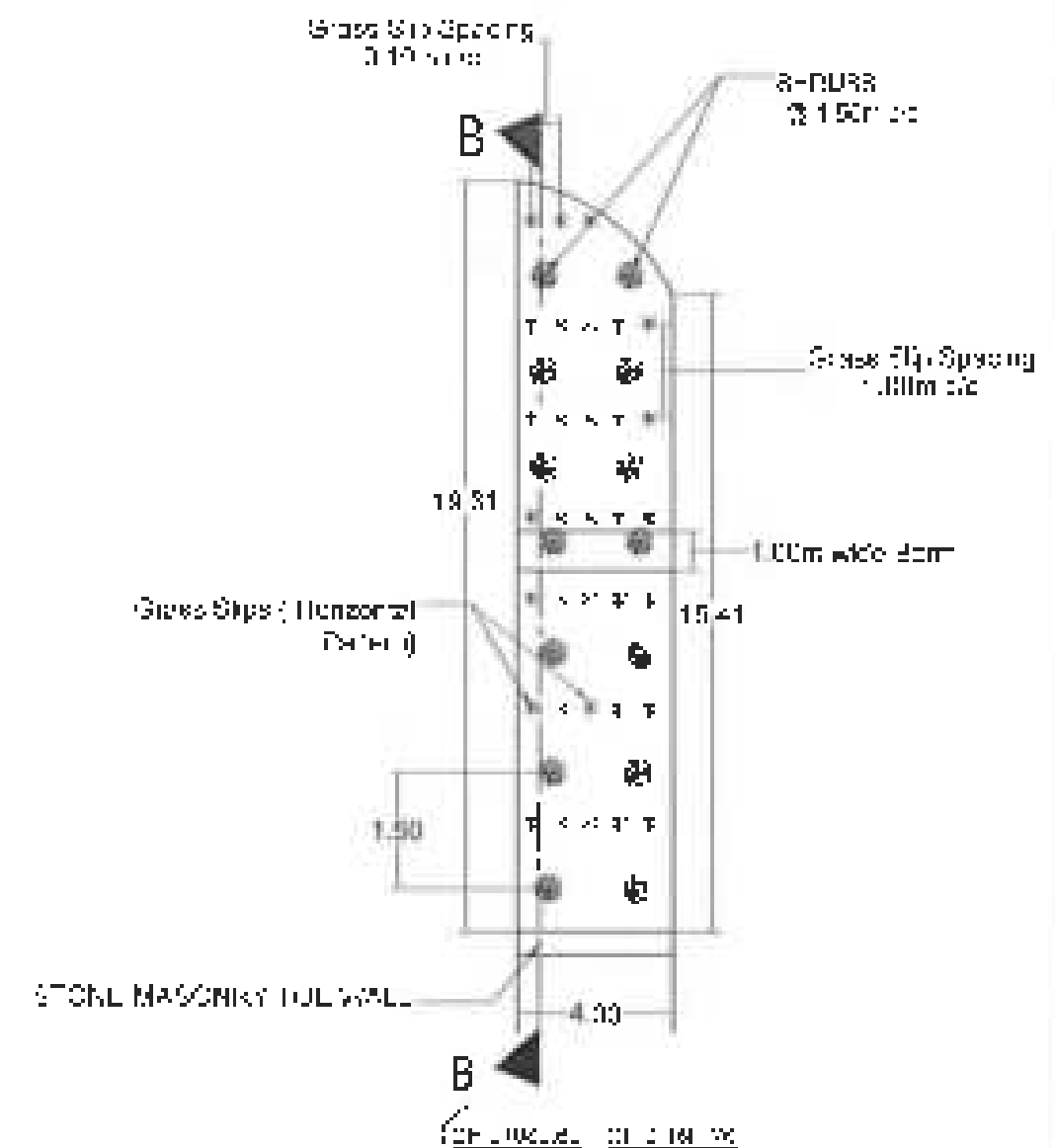
PLAN FOR AREA CALCULATION

TOTAL SURFACE AREA = A1 + A2 + A3
= 66.88m²



PLAN FOR MEASUREMENT OF GRASS SLIP LENGTH

Gross Slope - 89.910 m



PLAN FOR BIO ENGINEERING WORKS

DEPARTMENT OF ROADS KOSHI PROVINCE, NEPAL KOSHI DEVELOPMENT CORPORATION KOSHI DEVELOPMENT CORPORATION KOSHI DEVELOPMENT CORPORATION	CONSULTANT KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	PROJECT KOSHI DEVELOPMENT CORPORATION KOSHI DEVELOPMENT CORPORATION KOSHI DEVELOPMENT CORPORATION KOSHI DEVELOPMENT CORPORATION	DESIGNER KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	DATE KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	REVISION KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	APPROVED KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	CONTRACT NO. KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES	DATE KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES KCC-ENGINEERING ASSOCIATES
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(SLOPE = 30 ;

F. 133.092 7

STR. 12 @ 1.50m x/c

CC BY-NC-ND 4.0

GRASS SLIPS
1 CONTOUR HORIZONTAL:

5-RUNS @ 150.00

SECTION B B

Call 1-877-551

45

[illegible]

BIO-ENGINEERING WORKS AT U/S OF WEST ABUTMENT

(SLOPE 1:30 = 4%)

Gross Slope = 114.00 m²
Brush Layering = 105.00 m
Shrubs @ 1.50 m x 1.50 m

ROAD LEVEL

GRAVE SLIDE
RANDOM PLANTING

DRUSH LAYERING

1.00

min. 0.50m

min. 10°

SHRUBS @ 1.50m x 1.50m

WEST ABUTMENT

SECTION B-B

Quantity of Brush Layering for U/S of west abutment

No. = 14th Line = 14 x 7.50 = 105.00m

Total Length of Brush layering = 105.00m

STONE MASONRY WALL

B

BRUSH LAYERING @ 1m x 1m

7.00

Grass Slope spacing
0.10m x 0.10m

Grass Slope
spacing 0.10m x 0.10m

15.21

SHRUBS
@ 1.50m x 1.50m

1.50 1.50

GRASS SLOPE @ 10m x 10m
(100 nos. per m² (Random Pattern))

B

PLAN FOR BIO-ENGINEERING WORKS

GOVERNMENT OF KERALA
DEPARTMENT OF ROADS
CONSTRUCTION AND MAINTENANCE
SECTION
Kozhikode District

PROJECT
KROCC-TAB-ERM-AS-10-10-10
C/O: KERALA
C/O: KERALA

SCALE
1:100

PROJECT NAME: AS-10-10-10
BIO-ENGINEERING WORK
U/S OF WEST ABUTMENT

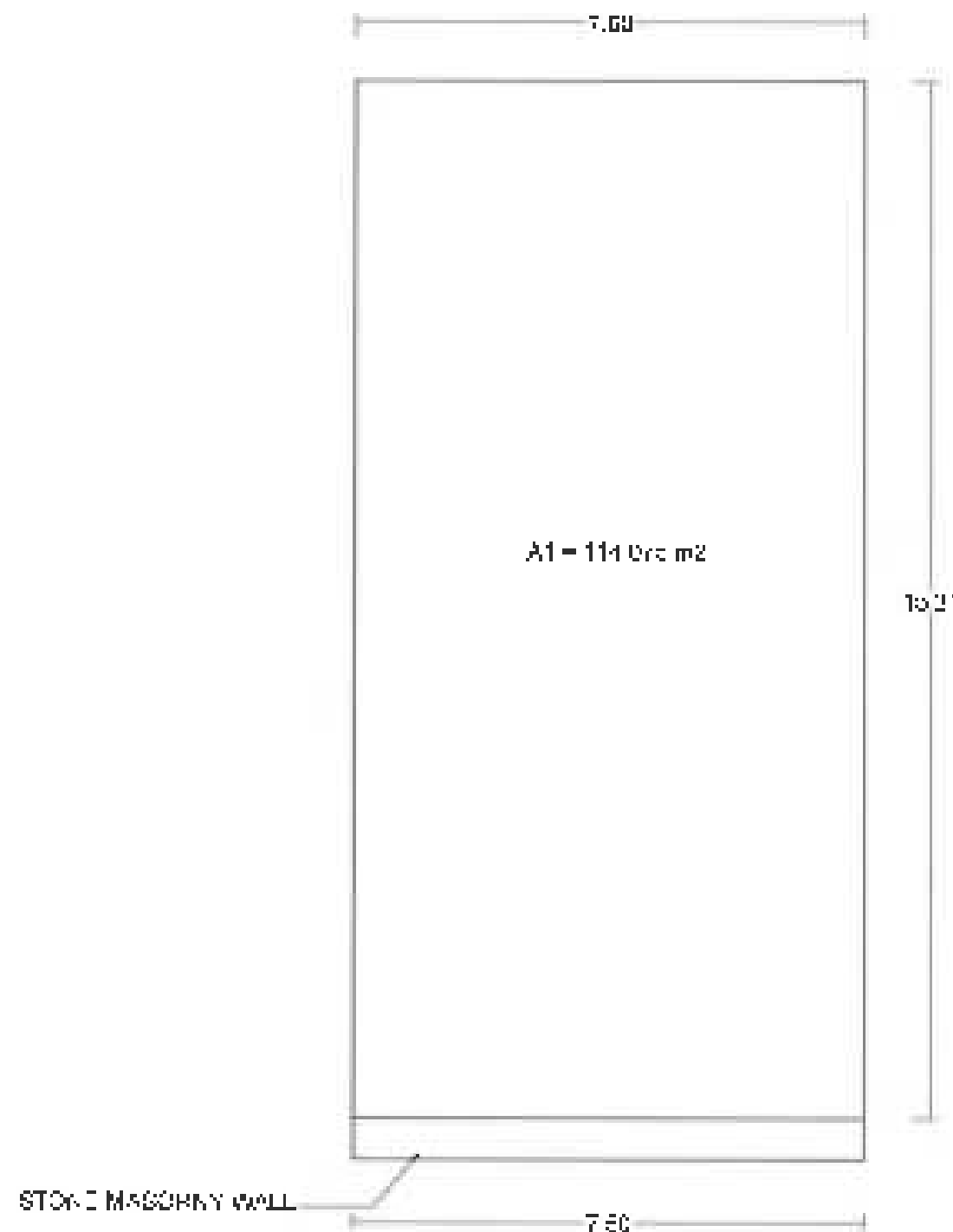
NO.	DATE	REVISION	BY	CHKD.	APPD.
1					
2					
3					

APPROACH ROAD OF KOSH THROUGH

NO. 10

RIO-ENGINEERING WORKS AT U/S OF WEST ABUTMENT

SLOPE 30°-45°



PLAN FOR AREA CALCULATION

GOVERNMENT OF NAGALAND NAGALAND PUBLIC WORKS DEPARTMENT DEPARTMENT OF ROADS REGIONAL ENGINEERING WORKS AT COCHIN, KERALA	DESIGNED BY MCDONALD ENGINEERING ASSOCIATES CHECKED BY ATTO K. K. K.	APPROVED AS BUILT DRAWING B.C. ENGINEERING WORK U/S OF WEST ABUTMENT AREA CALCULATION	DATE 1.1.2020 CHECKED 1.1.2020 APPROVED	SCALE	DATE	PROJECT NO. DATE DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE	CONTRACT NO. B-11/2018/2019 APPROACH ROAD OF KOSHI II BRIDGE	DATE 1.1.2020 PAGE NO. 50/50/2019 PAGE 20
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SLOPE 30° 45' Grass 81ps (20,097m²)
 Brush Layering (53,150 m²)
 Shrub 6.00 nos



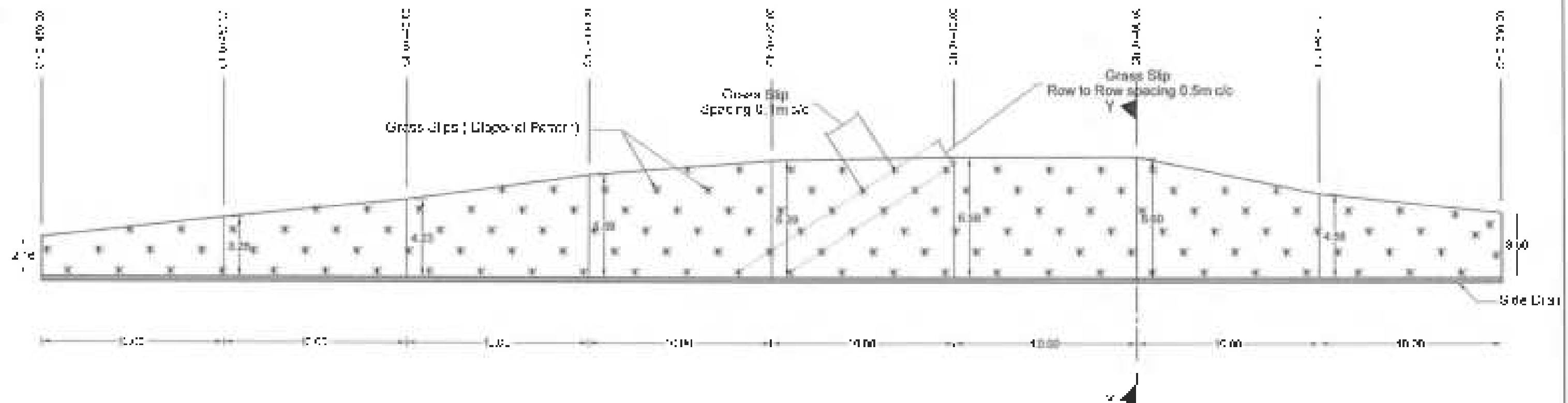
PLAN FOR BIO-ENGINEERING WORKS

GOVERNMENT OF KERALA DEPARTMENT OF HIGHWAYS ROAD ENGINEERING AND CONSTRUCTION OFFICE OF THE CHIEF ENGINEER ROAD ENGINEERING AND CONSTRUCTION	CONTRACTOR MPTUIMS ERMO ASSOCIATES ADDRESS TYPE WATER	SCALE 	WORKING AS BUILT DRAWING TO ENGINEERING WORKS OF WEST ABUTMENT	DRAWN CHECKED APPROVED 	DATE REC. DATE REC. APPROVED 	PROJECT NO. DRAWING NO. CONTRACTED ESTIMATION APPROACH ROAD OF KCE HI BRIDGE	DATE DATE DATE DATE
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$$\text{SLOPE} = 30^\circ - 40^\circ$$


PROJECT: KOSHI BRIDGE DEPARTMENT OF ROADS ROAD CONSTRUCTION SECTION ADD: CHINA ROAD, KOSHI PROJECT OFFICE: KOSHI BRIDGE	CONTRACT NO. EPR/18/08/001 APPROACH ROAD OF KOSHI BRIDGE	DATE: 2018 PAGE: 1/1
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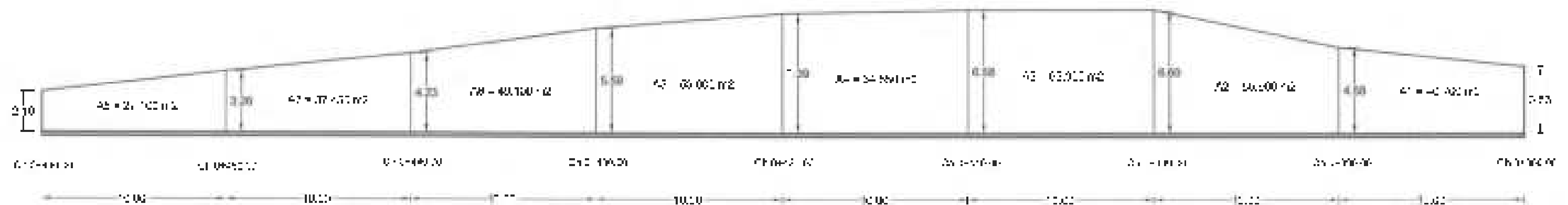
BIO ENGINEERING WORKS AT WEST SIDE APPROACH ROAD



PLAN FOR BIO-ENGINEERING WORKS

CH 0+380 - CH 0+460 (LEFT SIDE)

$$\text{TOTAL SURFACE AREA} = A_1 + A_2 + A_3 + A_4 + A_5 + A_6 + A_7 + A_8 \\ = 40.100 \text{ m}^2$$

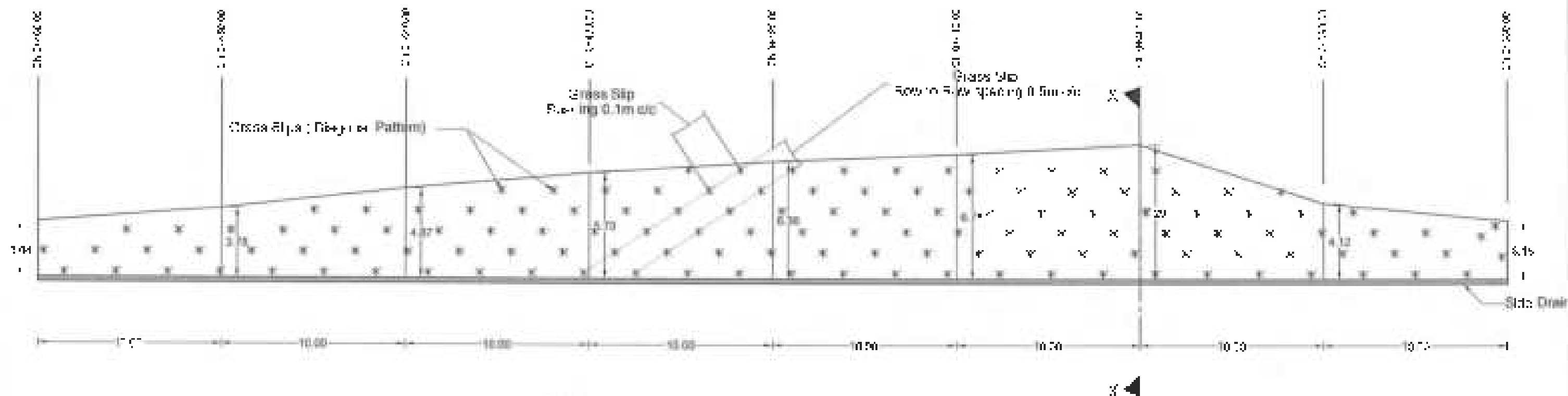


PLAN FOR AREA CALCULATION

CH 0+380 - CH 0+460 (LEFT SIDE)

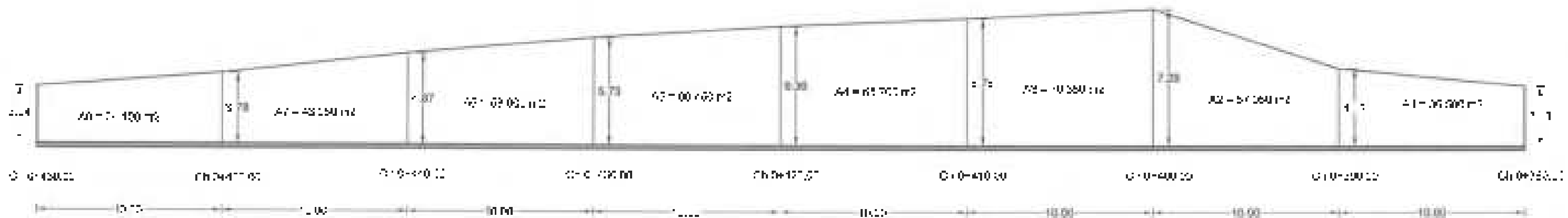
DEPARTMENT OF ROADS MINISTRY OF INFRASTRUCTURE DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION 400 Chuan Nui Street, Singapore Singapore 119974	SURVEYOR KILIAN PETER RMC ASSOCIATES PROJECT NO. C/100-1000	SCALE 1:100	PROJECT NO. AS BUILT DRAWING BIO ENGINEERING WORK CH 0+380 - CH 0+460 (LEFT SIDE) WEST SIDE APPROACH ROAD	DRAWN BY CHECKED BY APPROVED BY	DATE 10/10/2024	PROJECT NO. B-1000-0000 APPROACH ROAD OF KCS-1 BRIDGE	SHEET NO. 20
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BIO-ENGINEERING WORKS AT WEST SIDE APPROACH ROAD



PLAN I OR BIO-ENGINEERING WORKS
CH 0+380 - CH 0+450 (RIGHT SIDE)

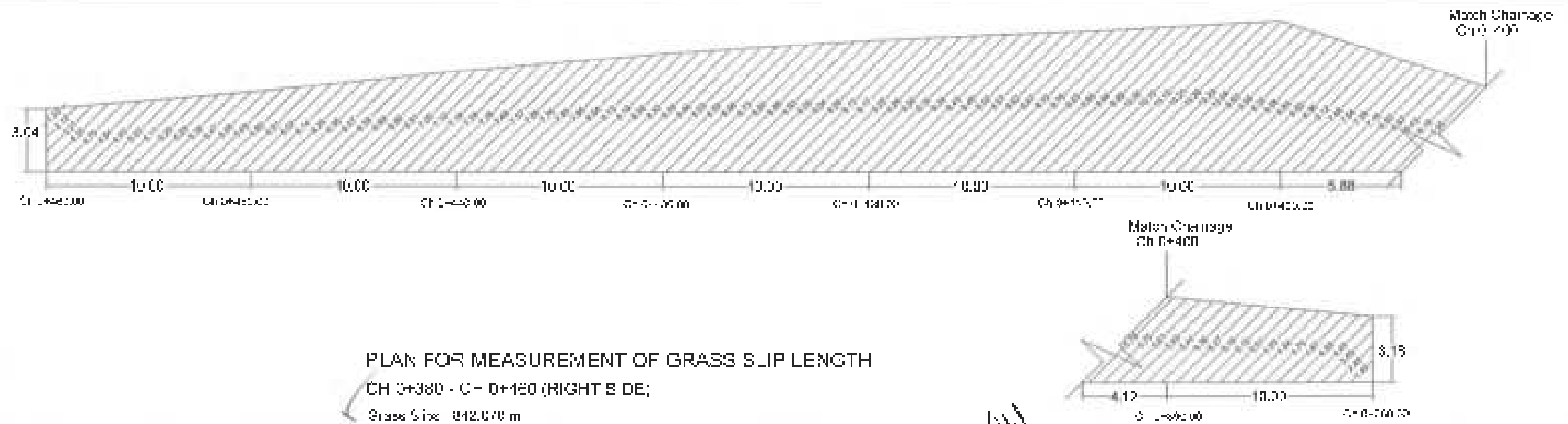
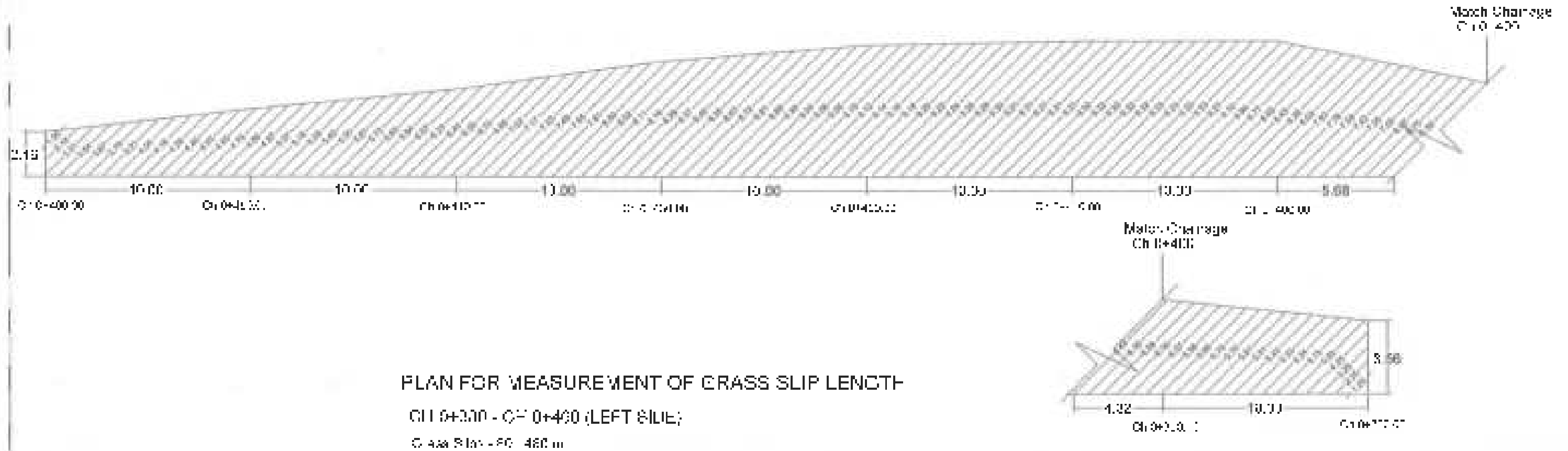
$$\text{TOTAL SURFACE AREA} = A_1 + A_2 + A_3 + A_4 + A_5 + A_6 + A_7 + A_8 + A_9 + A_{10} \\ = 42.10 \text{ m}^2$$



PLAN I OR AREA CALCULATION
CH 0+380 - CH 0+450 (RIGHT SIDE)

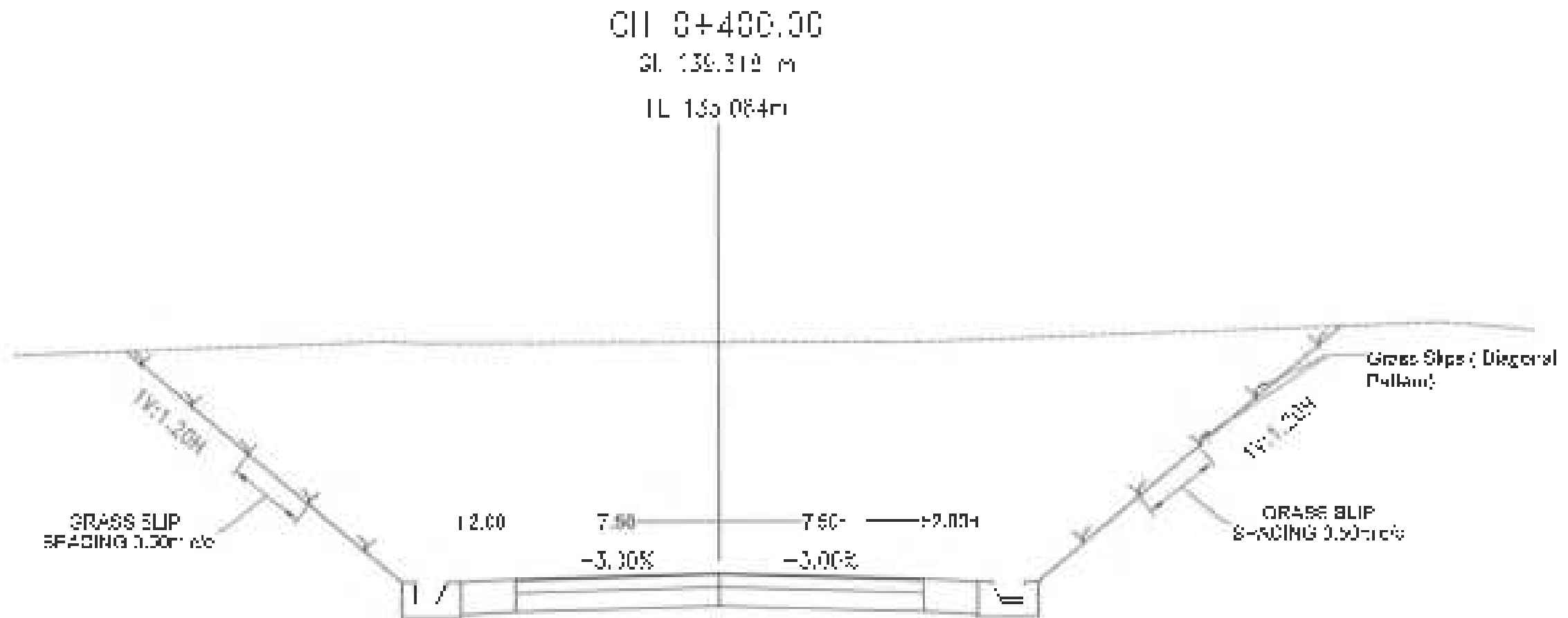
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013	PROJECT: [Signature] LOCATION: [Signature] SCALE: [Signature]	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/10/2013
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BIO-ENGINEERING WORKS AT WEST SIDE APPROACH ROAD



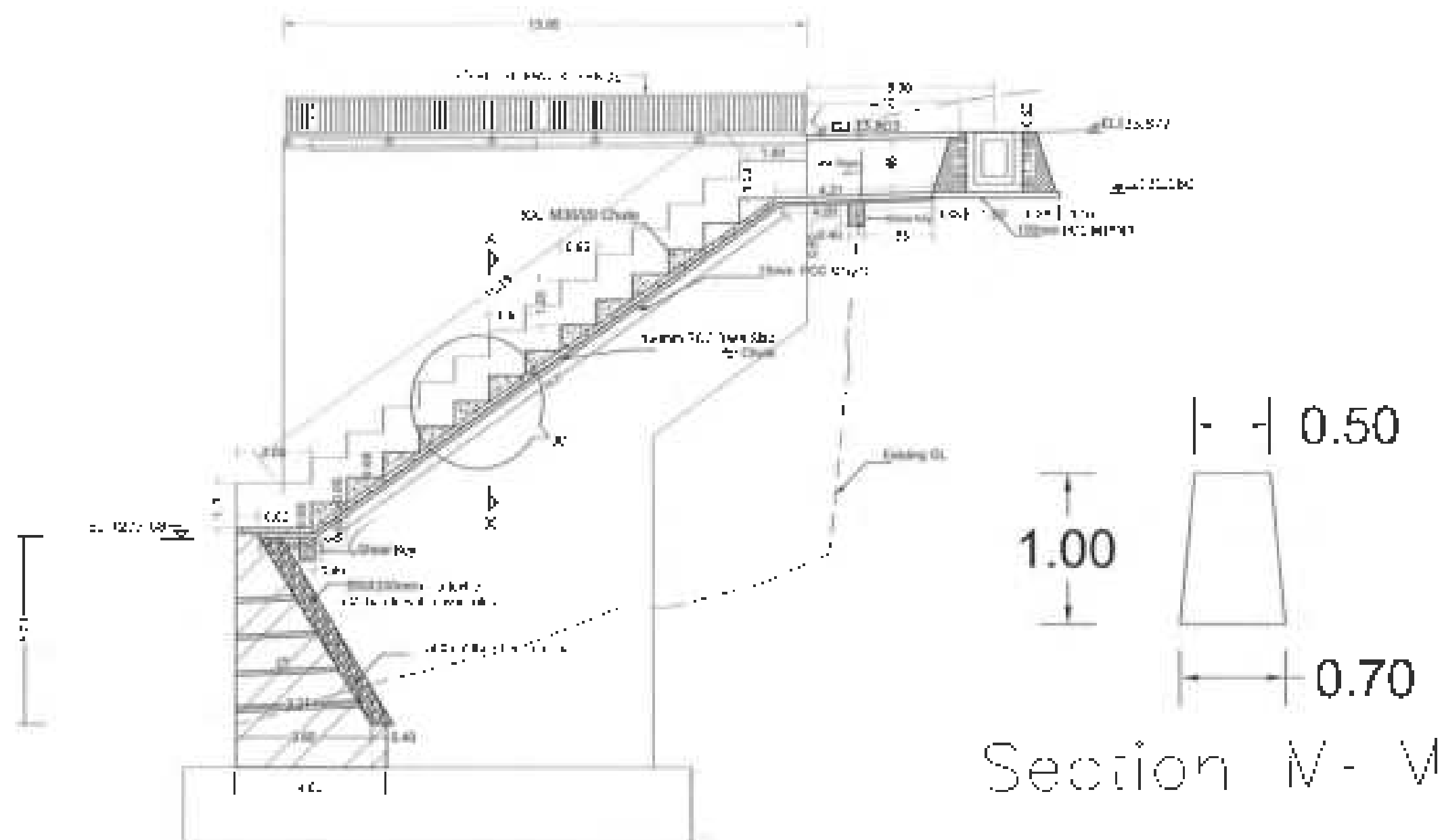
APPROVED BY: [Signature]	DESIGNED BY: [Signature]	DATE: [Date]	PROJECT: [Project Name]	CONTRACT NO.: [Contract No.]	DATE: [Date]
APPROVED BY: [Signature]	DESIGNED BY: [Signature]	DATE: [Date]	PROJECT: [Project Name]	CONTRACT NO.: [Contract No.]	DATE: [Date]
APPROVED BY: [Signature]	DESIGNED BY: [Signature]	DATE: [Date]	PROJECT: [Project Name]	CONTRACT NO.: [Contract No.]	DATE: [Date]
APPROVED BY: [Signature]	DESIGNED BY: [Signature]	DATE: [Date]	PROJECT: [Project Name]	CONTRACT NO.: [Contract No.]	DATE: [Date]
APPROVED BY: [Signature]	DESIGNED BY: [Signature]	DATE: [Date]	PROJECT: [Project Name]	CONTRACT NO.: [Contract No.]	DATE: [Date]

BID ENGINEERING WORKS AT WEST SIDE APPROACH ROAD



SECTION X-X & Y-Y

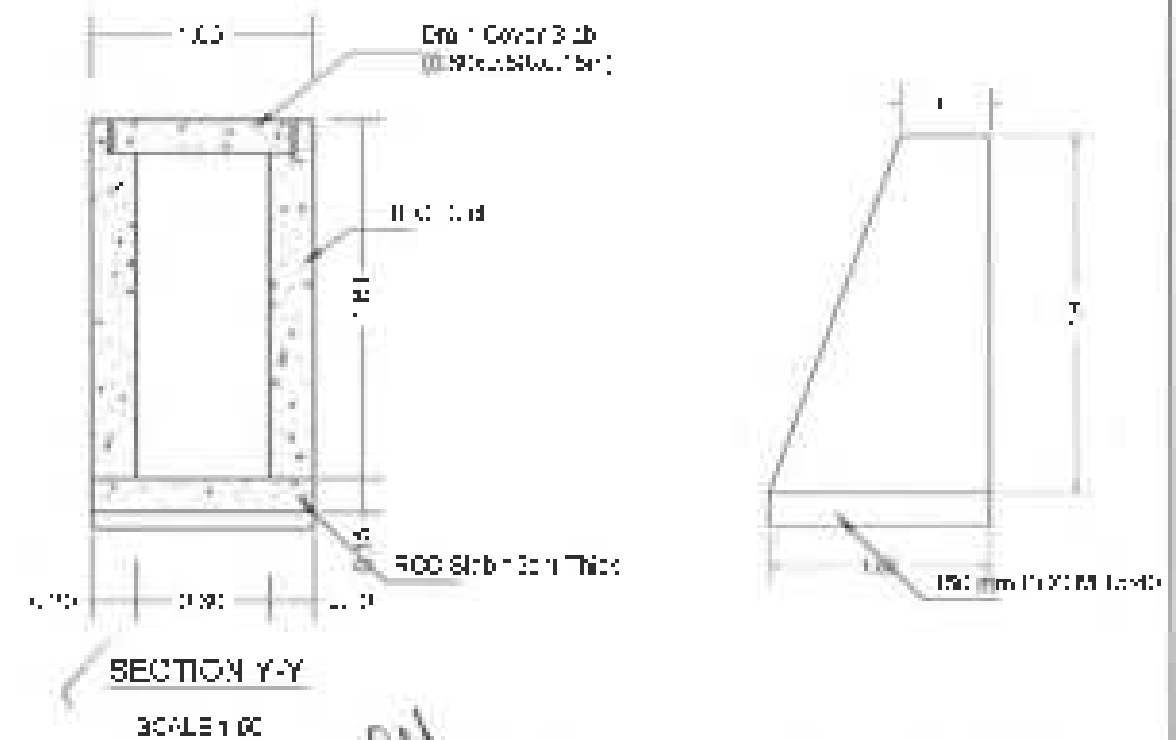
CONTRACTOR/ENGINEER MINISTRY OF TRANSPORTATION DEPARTMENT OF ROADS ROAD DEVELOPMENT SECTION PROJECT All work to be done in accordance with the Project Description: CH 0+400.00	CLIENT KURDC TRADING ASSOCIATES GROUP CTC KALIA	SCALE 1:100	PROJECT AREA & DRAWING BID ENGINEERING WORK CH 0+350 - CH 0+450 WEST SIDE APPROACH ROAD	REVISION NO. 1 DATE 1/1/2020 BY 1/1/2020	NO. 1 DATE 1/1/2020 BY 1/1/2020	CONTRACTING ESTABLISHMENT APPROACH ROAD OF KOSHI BRIDGE	NO. 1 DATE 1/1/2020 BY 1/1/2020
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Sectional Elevation of Chute

MINISTRY OF TRANSPORTATION DEPARTMENT OF HIGHWAYS CONSTRUCTION DIVISION KATHMANDU	Client Korea Engineering Consultant Corp.	Contract No. CTCE-KATHA JV KATHMANDU, KATHMANDU	Contract Title CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHAYARA)	Contract Item WEST ADJUTMENT RCC Chute	Scale 1:100	Sheet No. 1/1	Revision 1.00	Drawn By [Signature]	Checked By [Signature]
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11. 14. 2014



1. THE ENGINEER IN CHARGE OF THE ROAD AND BRIDGE DEPARTMENT IN DEPARTMENT OF ROADS HAS APPROVED THE PROPOSED PROJECT AND IS IN FULL AGREEMENT WITH THE CONTRACTOR'S PROPOSAL.	2. APPROVED Korea Engineering Consultant Corp.	3. APPROVED  CTR KALIKA JV KALUNATAC KATHMANDU	4. CONTRACT NO. E-140 FORMER CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHA - ARA)	5. DRAWING NO. AS PER THE DRAWING WEST ABUTMENT BOX 1 Box Culvert	6. SCALE 1:1000 1:2000 1:5000	7. APPROVED BY 	8. DATE 	9. CONTRACT NO. 	10. TOTAL 1. 1.0000 2. 1.0000 3. 1.0000
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Note: Main Ear chart is recommended for
the Assessment of Hearing Task 242

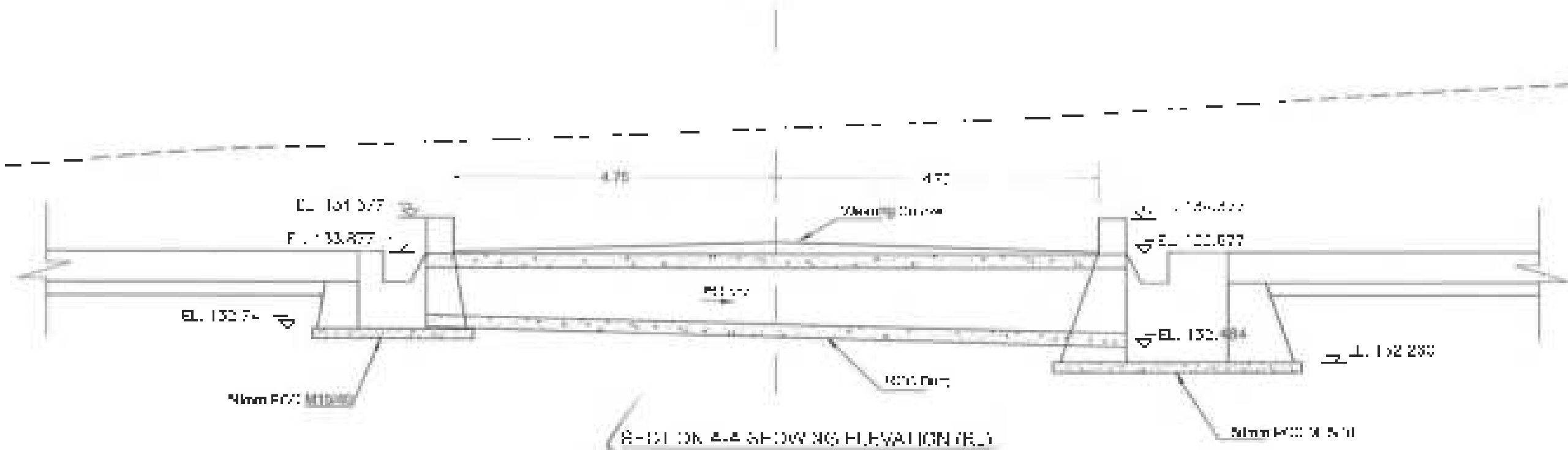
Cross-Section and reinforcement Details at Chute

[illegible]

CH 0+372.66

GL 135.730 m

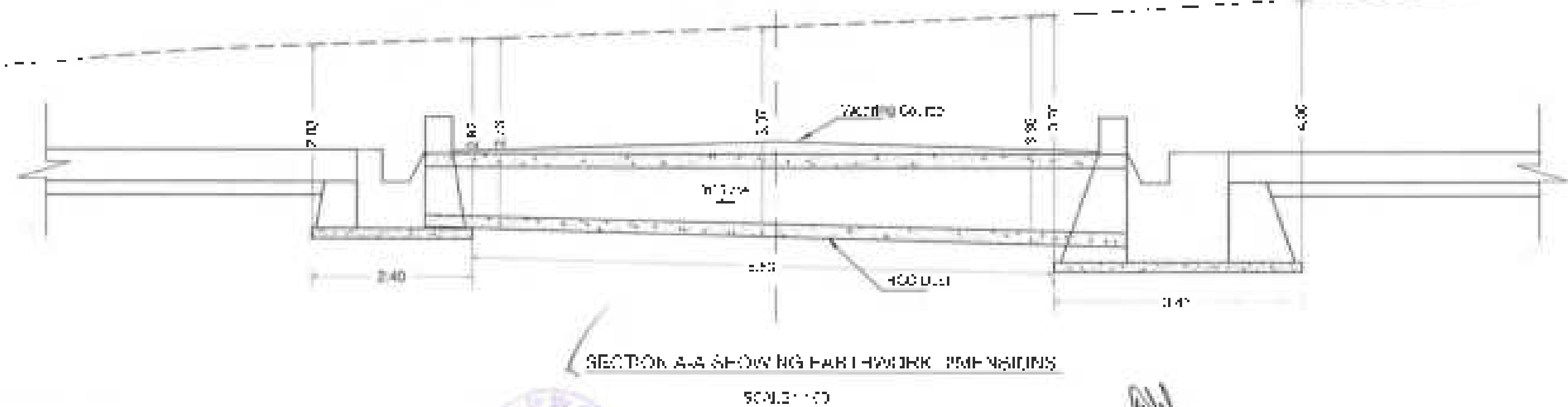
DL 134.390 m



CH 0+372.66

GL 135.730 m

DL 134.390 m



PROJECT NO. 101/2017 DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION KATHMANDU	DESIGNED BY Korea Engineering Consultants Corp.	PROJECT NO. CTCR-KALINA JV BALTICAT, KATHMANDU	CONTRACT NO. 101/2017 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CH 0+372.66)	PROJECT AREA AS BUILT DRAWING WEST SIDE VIEW 400 BOX CULVERT Approach Area	DATE 2017/10/10	SCALE 1:100	PROJECT NO. 101/2017	DATE 2017/10/10	NO. 5
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Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING
Jump Span Steel Strucute

JUNE 2015

CONTRACATOR:
CTCE-KALIKA JV
Baluwatar, Kathmandu

CONSULTANT:
KECC-TMS-ERMC Associates

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING
Jump Span Steel Strucute

JUNE 2015

CONTRACTOR:
CTCE-KALIKA JV
Baluwatar, Kathmandu

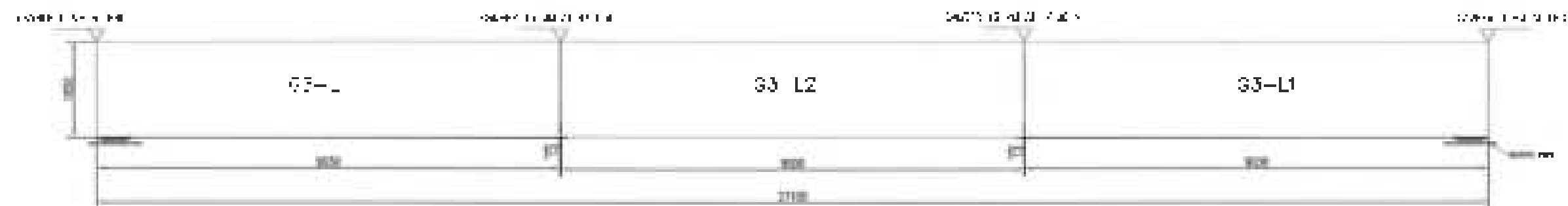
CONSULTANT:
KECC-TM5-ERM Associates



CAMBER DETAIL FOR ORDER G1 AND G0

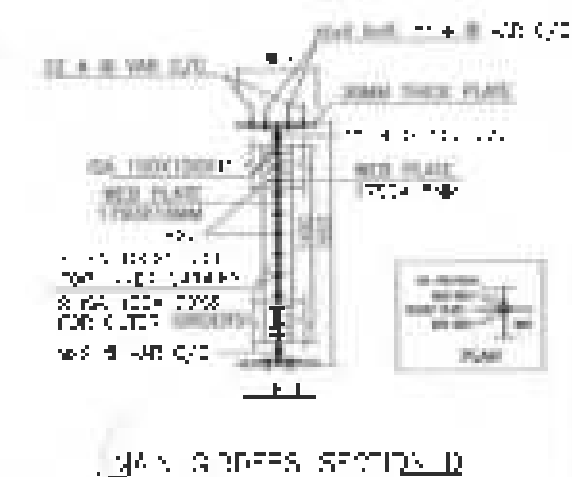
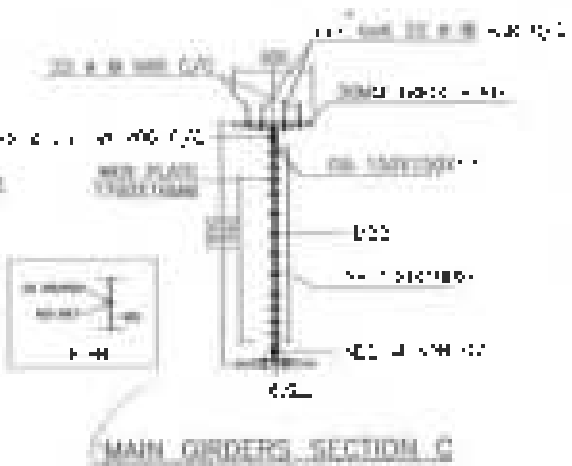
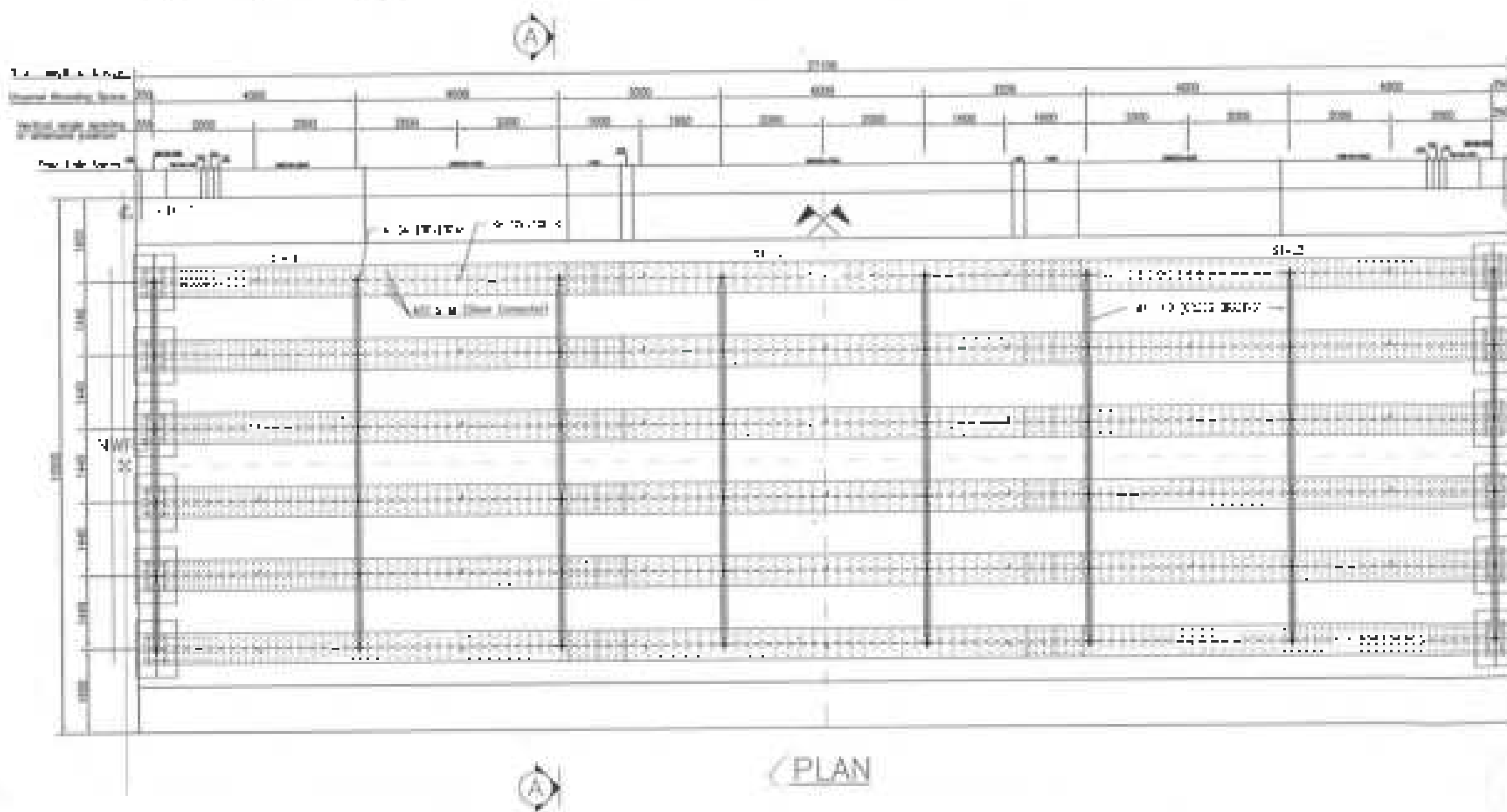
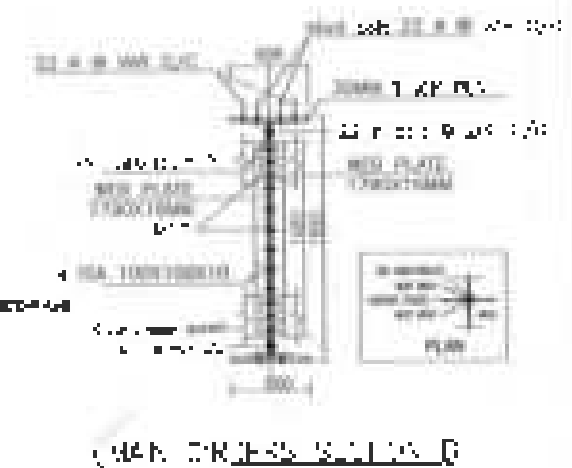
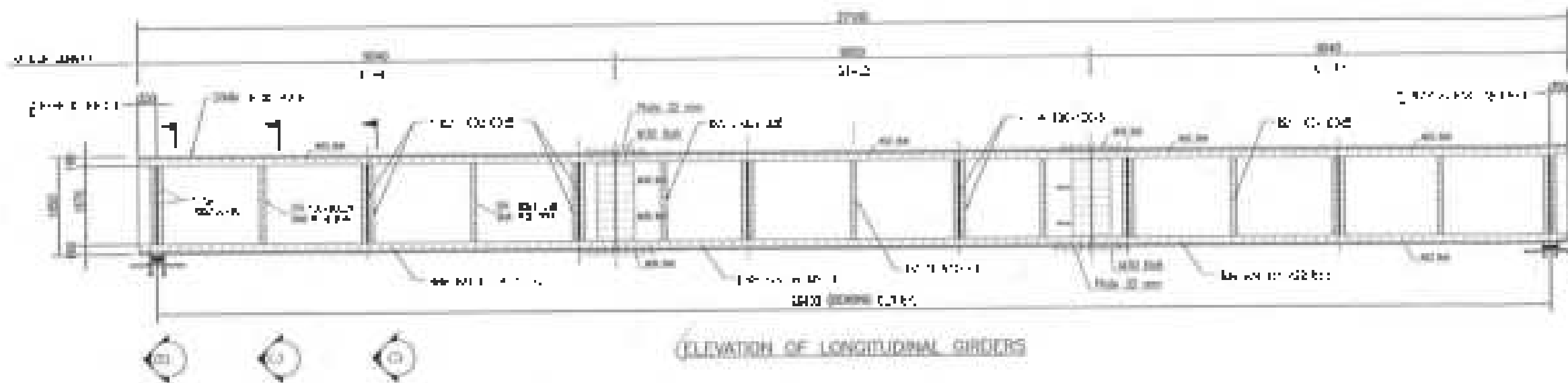


CAMBER DETAIL FOR ORDER G2 AND G5

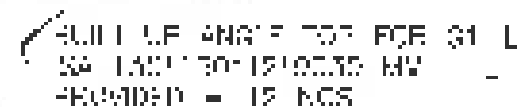
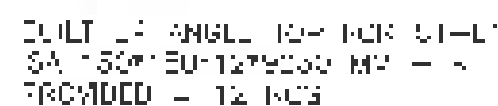
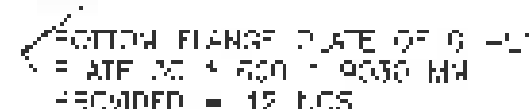
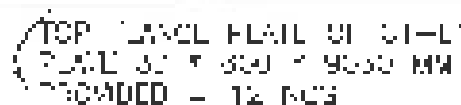


CAMBER DETAIL FOR ORDER G3 AND G4

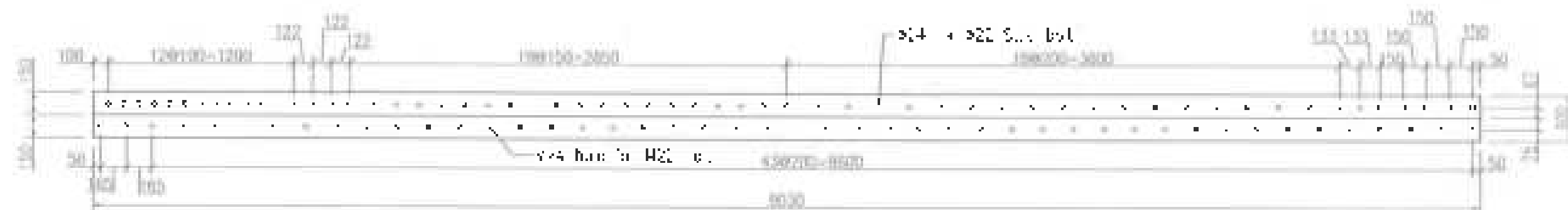
GOVERNMENT OF KERALA DEPARTMENT OF HIGHWAYS KODUNGOTUR DISTRICT KODUNGOTUR - KANNUR KODUNGOTUR - KANNUR KODUNGOTUR - KANNUR	CONSULTANT Korea Engineering Consultant Corp.	OWNER CTCE-KALIKA JV BALUWADIL NATHANANDU	CONTRACT NO. 100/2019 CONSTRUCTION OF KCSH BRIDGE AND APPROACHES (CHATARA)	PROJECT NAME KCSH BRIDGE AND APPROACHES (CHATARA)	DATE 10/01/2020	SCALE 1:100	NO. OF SHEETS 1	DATE 10/01/2020	BY [Signature]
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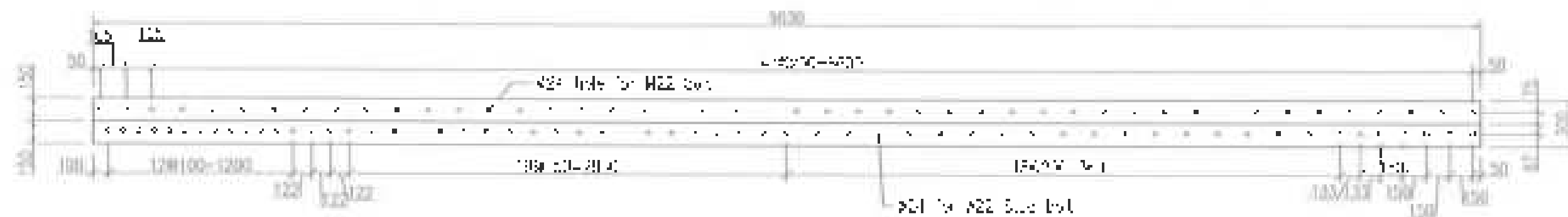
DESIGNATION OF THE PROJECT REPAIR AND MAINTENANCE WORK ON THE BRIDGE AND APPROACHES AT CHATARA, KATHMANDU	DESIGNER Korea Engineering Consultant Corp.	APPROVED BY CHIEF ENGINEER KATHMANDU	CONTRACTOR'S REPRESENTATIVE CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATARA)	TECHNICAL SUPERVISOR JUNIOR ENGINEER STRUCTURE & ASSEMBLY	DATE 2020/01/20	NO. 2020/01/20	REMARKS 2
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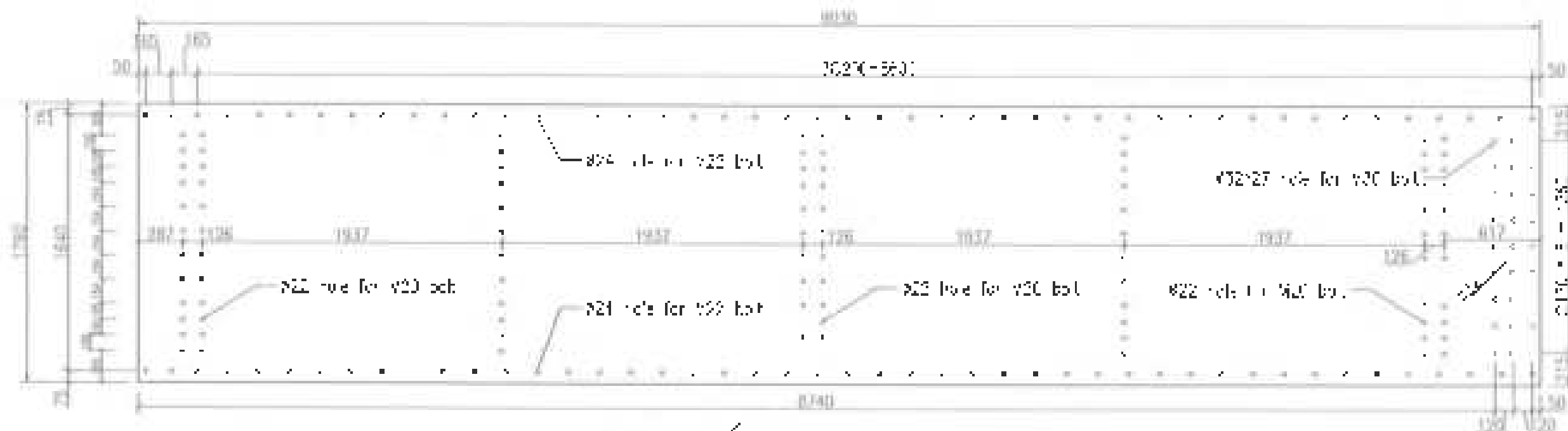
THE NATIONAL HIGHWAYS AUTHORITY OF INDIA DEPARTMENT OF ROAD AND BRIDGE CONSTRUCTION 402, NEW DELHI INTERNATIONAL AIRPORT, NEW DELHI-110066	Korva Engineering Consultant Corp.	 C. C. KALIKA JV BANGALORE, KARNATAKA	CONSTRUCTION OF KOOSHI BRIDGE AND APPROACHES (CHATARA)	ADULTERATION FINGER PRINTS ON DRAWING	SUBJECT DRAWING NO. 100	 ENGINEER	DATE	QUANTITY 00100000	UNIT SQUARE METER	RATE 100000000	TOTAL 100000000
---	--	--	---	--	-------------------------------	---	------	----------------------	----------------------	-------------------	--------------------



DETAIL OF TOP FLANGE FOR CH-1
 8x24 8x22 bolts
 8x24 hole for H22 bolt
 8x22 hole for H22 bolt
 PROVIDED - 12 NOS

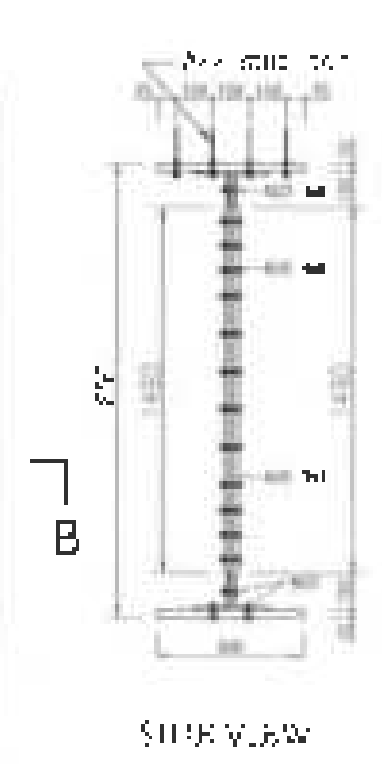


DETAIL OF BOTTOM FLANGE FOR CH-1
 8x24 8x22 bolts
 8x24 hole for H22 bolt
 8x22 hole for H22 bolt
 PROVIDED - 12 NOS

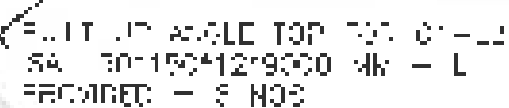
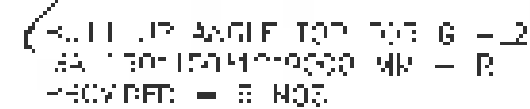
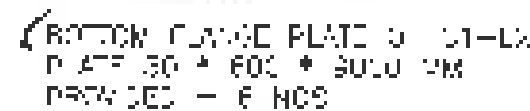
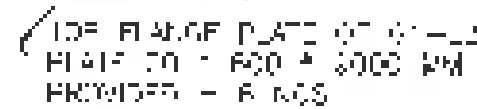


DETAIL OF WEB PLATE FOR CH-1
 PLATE 16x1730x9030 mm
 PROVIDED - 2 NOS

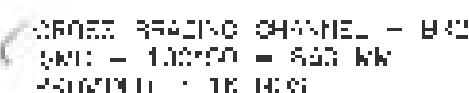
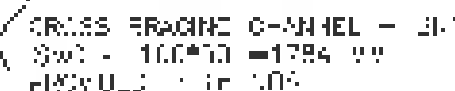
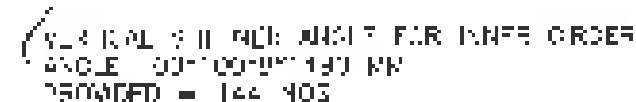
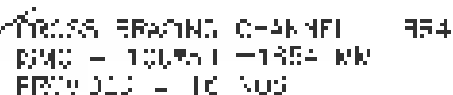
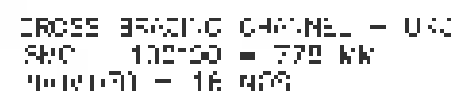
PROJECT TITLE IMPROVEMENT OF ROAD ROAD CONSTRUCTION PROJECT NO. 10/2017	CONSULTANT Korea Engineering Consultant Corp.	CLIENT C.T.C.E. KALINA JV KATHMANDU, KATHMANDU	CONTRACT NO. 10/2017 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CH-1)	DRAWING NO. BRIDGE AND WEB PLATE CH-1	SCALE 1:100	DATE 10/2017	SHEET NO. 10/2017	TOTAL SHEETS 10/2017
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1. DEPARTMENT OF ROADS AND TRANSPORTATION DEPARTMENT OF ROADS 2. PROJECT NAME: RAILROAD CROSSING APPROACH AND BRIDGE CONSTRUCTION PROJECT	3. CLIENT NAME: Korea Engineering Consultant Corp.	4. PROJECT LOCATION:  CTCE-KALIKAL JV BALI WAGAS, KATHMANDU	5. CONTRACT NO. / DESCRIPTION: CONSTRUCTION OF KOS II BRIDGE AND APPROACHES (CHATARA)	6. CONTRACTOR: KALIKAL GROUP CO. LTD.	7. PROJECT START DATE: 2018/01/01	8. PROJECT END DATE: 2018/03/31	9. PROJECT STATUS: COMPLETED	10. PROJECT VALUE: USD 100	11. PROJECT OWNER: KOS II BRIDGE
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[illegible]

NATIONAL HIGHWAY AUTHORITY MINISTRY OF TRANSPORT, PLANNING AND INFRASTRUCTURE DEVELOPMENT ROAD DEVELOPMENT, REPAIRS AND MAINTENANCE DIVISION 100, KATHMANDU-1 TEL: 977-01-42222222	PROJECT NAME Koshi Engineering Consultants Ltd.	CONTRACT NO. CC-01-KATH-14 BAIKWATAR, KATHMANDU	CONTRACT DESCRIPTION CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (SIKIMARA)	DRAWING NO. CC-01-KATH-14-001 BUILDING APPROACH PLAN OF 1/2	DATE 2073	APPROVED 	DATE 2073	REMARKS SCALE = 1:50	PREPARED BY ENGR. K. P. SHRESTHA	CHECKED BY ENGR. K. P. SHRESTHA
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Charged

JUMP 5

Existing G77 hole on Bottom Flange Plate

Padding Flange P-4 (2x140x60mm)

Original Existing Hole: 40mm

OC Distance of Hole : 940mm

Bearing Pad W x L - 800mm

Bottom Flange Plate width : 300mm

Bottom Flange Plate

TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL

[illegible]

FOR BEARING ID 1,2,3,4
JUMP SPAN (EAST ABUTMENT)

Max 102 hole on Bottom Flange Plate and Existing Plate

Max 202 hole on Bottom Flange Plate and Existing Plate

Existing 502 hole on Top Flange Plate

Existing Flange Plate (2x 40x900mm)

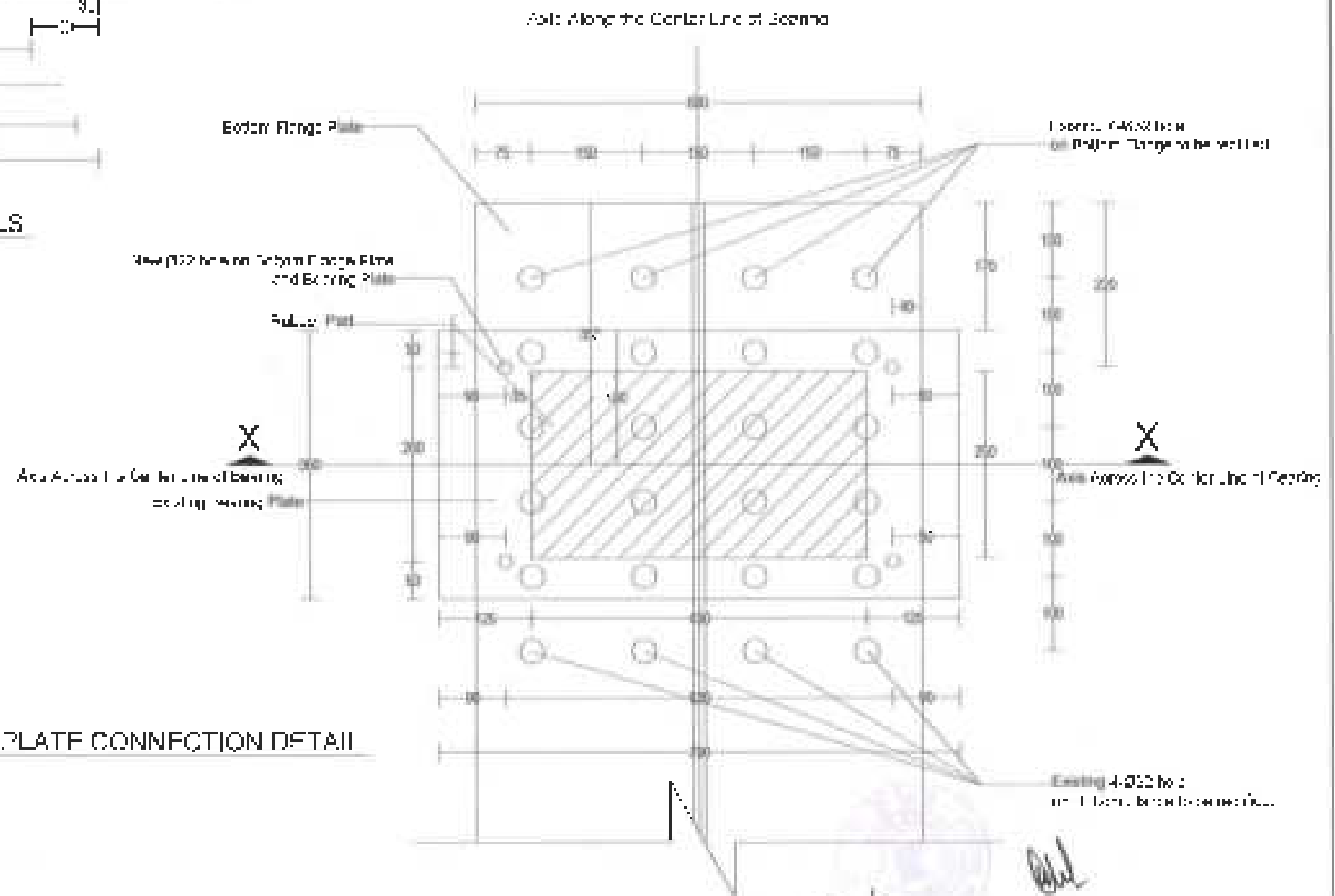
Original bearing plate area

Bottom Flange Plate

Dimensions:

- Top Flange Plate: 150, 50, 50, 150
- Bottom Flange Plate: 150, 150, 150, 150
- Overall dimensions: 150, 150, 150, 150
- Bottom Flange Plate: 150, 150, 150, 150
- Overall dimensions: 150, 150, 150, 150
- Bottom Flange Plate: 150, 150, 150, 150
- Overall dimensions: 150, 150, 150, 150

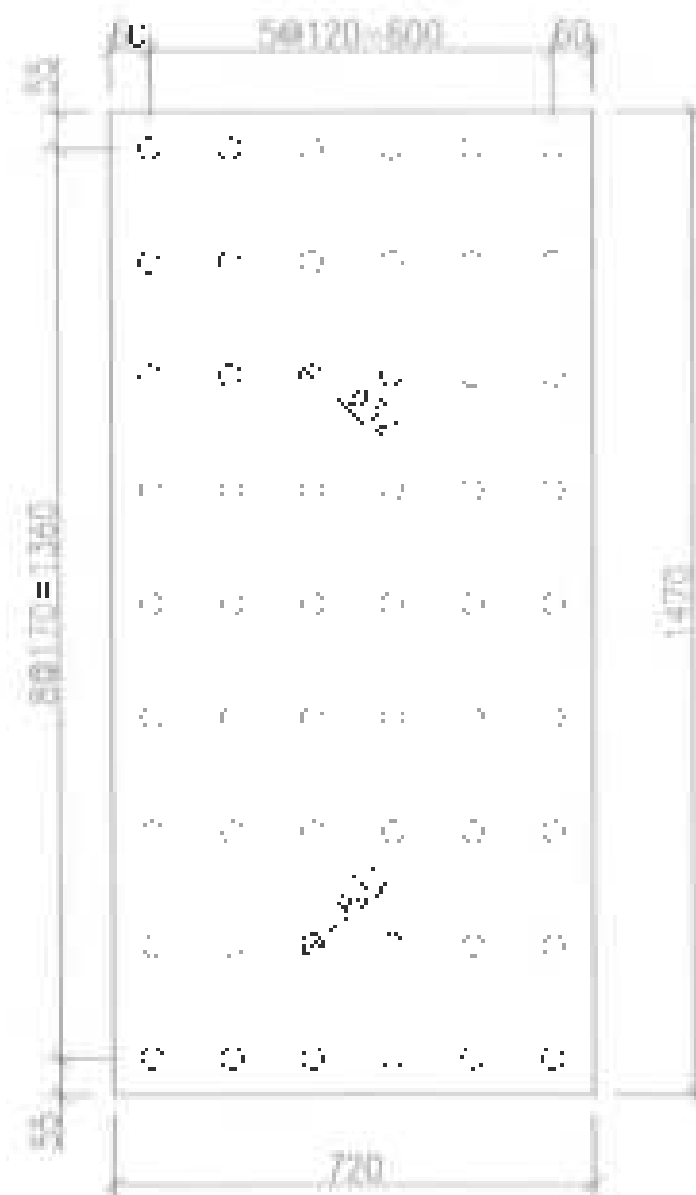
SECTION X-X



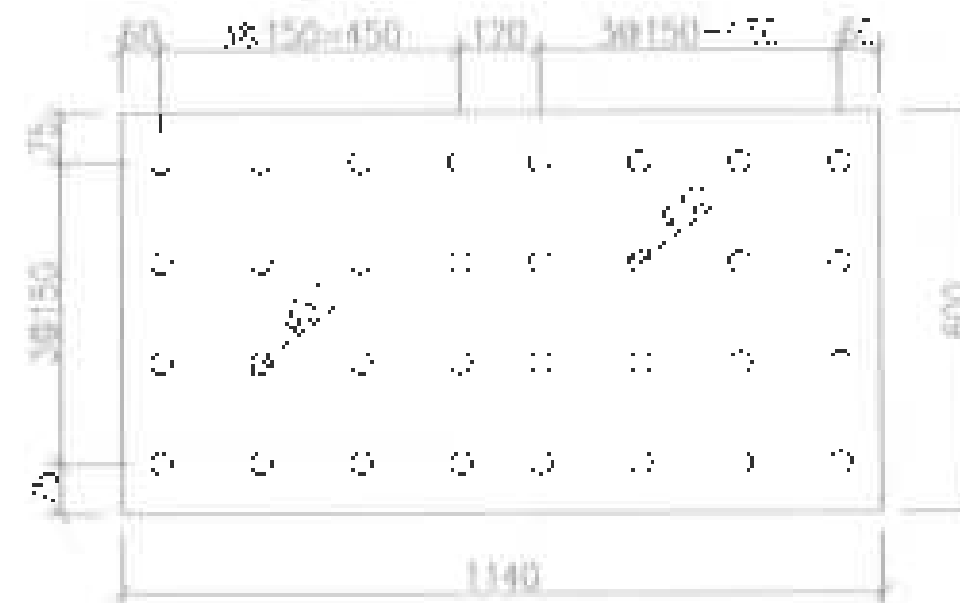
TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL

[illegible]

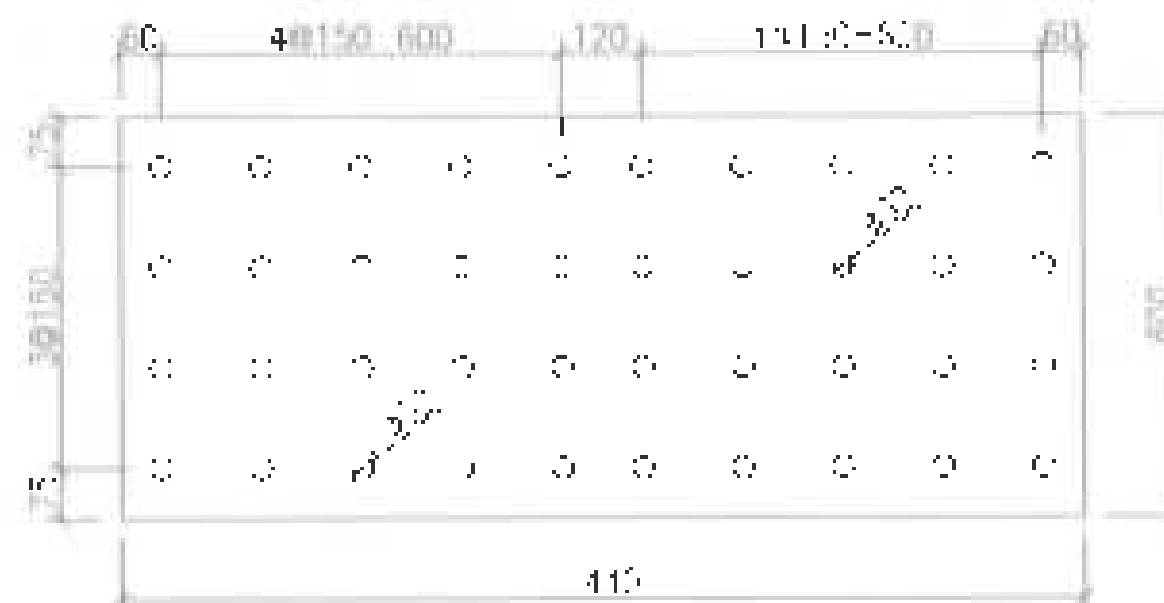
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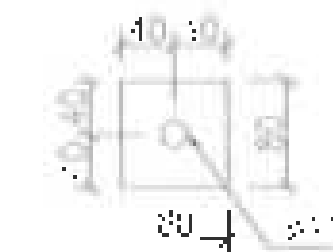
10-RT PLATE FOR GIRDER WEB JP-1
 PLATE 20 * 120 * 1470 MM
 PROVIDED = 14 NOS



10-RT PLATE FOR GIRDER FLANGE TOP JP-2
 PLATE 32 * 800 * 1140 MM
 PROVIDED = 12 NOS



10-RT PLATE FOR GIRDER FLANGE BOTTOM JP-3
 PLATE 32 * 800 * 1140 MM
 PROVIDED = 12 NOS



10-RT PLATE FOR GIRDER CORNER
 PLATE 10 * 100 * 100 MM
 PROVIDED = 12 NOS

DEPARTMENT OF ROADS GOVERNMENT OF NEPAL KATHMANDU	DESIGNED BY Korea Engineering Consultant Corp.	APPROVED BY CTCE-KATHMANDU RAJAWATI, KATHMANDU	CONTRACT NO. 100/100/100 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	DESIGNED BY Korea Engineering Consultant Corp.	APPROVED BY CTCE-KATHMANDU RAJAWATI, KATHMANDU	SCALE 1:100	DATE 2010/10/10
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Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING Main Span Steel Strucute

JUNE 2015

CONTRACTOR:
CTCE-KAUKA JV
Baluwatar, Kathmandu

CONSULTANT:
KECC-TMS-ERM Associates

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Project Directorate (ADB)

Emergency Flood Damage Rehabilitation Project

ADB Grant No.0150-NEP

CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES

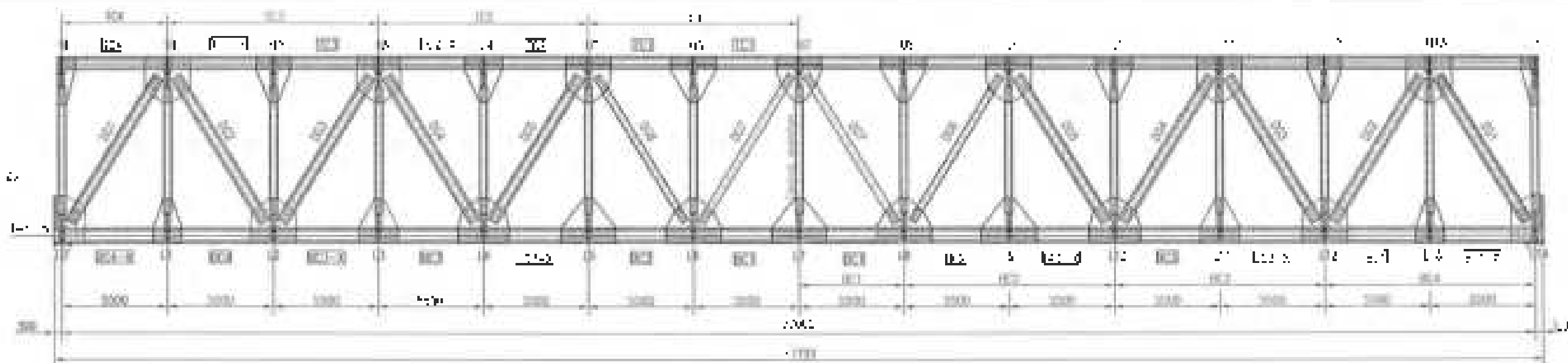
Contract No. EFDRP/ICB/KB/01

AS BUILT DRAWING Main Span Steel Strucute

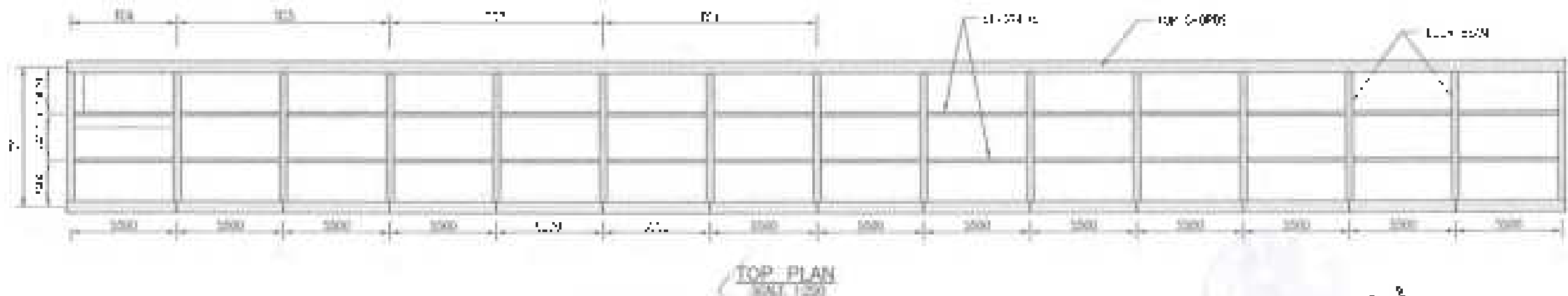
JUNE 2015

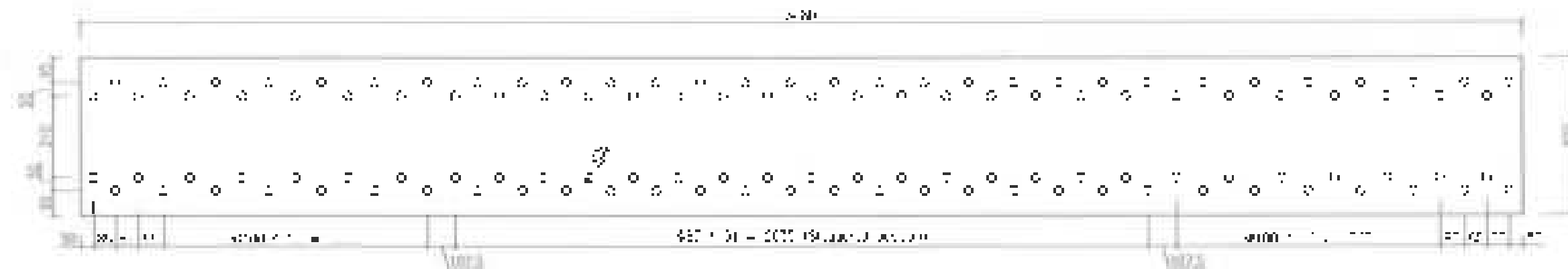
CONTRACTOR:
CTCE-KALIKA JV
Baluwatar, Kathmandu

CONSULTANT:
KECC-TMS-ERM Associates



Technical drawing of the bottom plan of a bridge truss. The drawing shows a long, narrow truss structure with a series of vertical and diagonal members forming a series of 'X' shapes. The top chord is labeled 'TOP CHORD' and the bottom chord is labeled 'BOTTOM CHORD'. The truss is supported by two main piers, with the left pier labeled 'PIER' and the right pier labeled 'PIER'. The drawing includes various dimension lines and labels, such as '1000' for the total length, '100' for the height, and '100' for the width. The title 'BOTTOM PLAN' is at the bottom center, with 'SCALE 1:100' below it.

[illegible]



ELEVATION OF BOTTOM CHORD - B0
 PLATE 15 x 800 x 9450 mm
 PROVIDED - 4 NOS

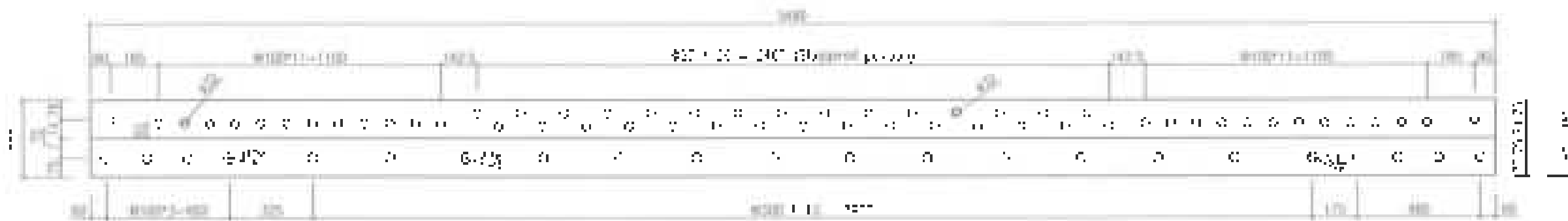


ELEVATION OF BOTTOM CHORD - B01
 (ELEVATION OF ANGLE - A)
 ANGLE 150° x 100° x 6 mm x 5500 mm Long
 PROVIDED - 4 NOS

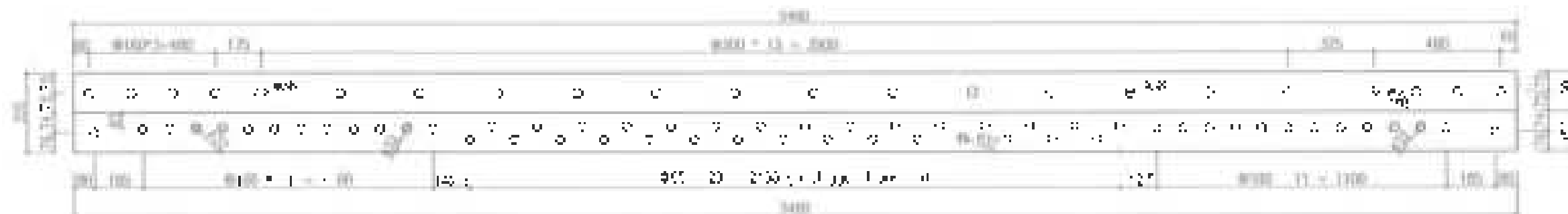


ELEVATION OF BOTTOM CHORD - B01
 (ELEVATION OF ANGLE - B)
 ANGLE 150° x 100° x 6 mm x 5480 mm Long
 PROVIDED - 4 NOS

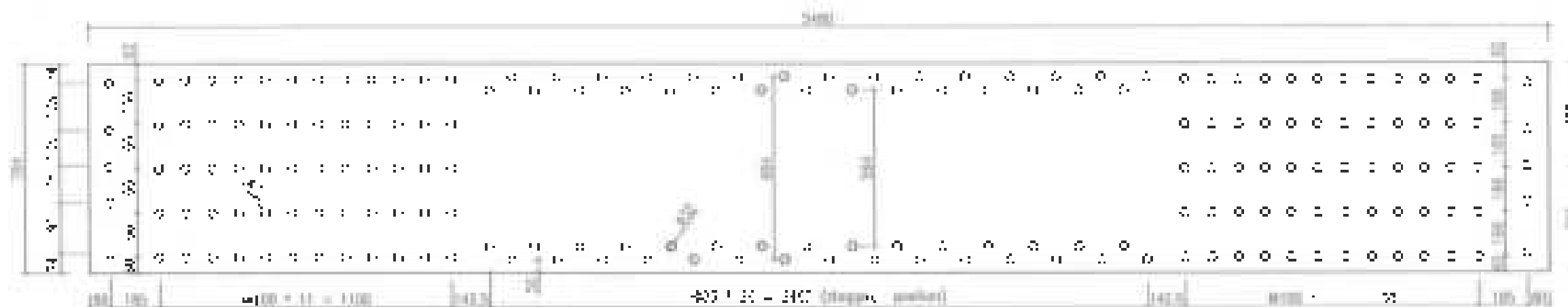
APPROVED FOR THE DEPARTMENT OF ROADS ROAD CONSTRUCTION PROJECT ADD: GATE NO. 12, JALPAIGURI DISTRICT ROAD OFFICE, JALPAIGURI	CONSULTANT Korea Engineering Consultants Corp.	CONTRACT NO. CTRC KALINA-IV BILIMARA R. KATHAMANDU	CONTRACT NO. FOR PROJECT CONSTRUCTION OF KOS II BRIDGE AND APPROACHES (CHATARA)	WORK ORDER AS BUILT DRAWING BOTTOM CHORD - B01	DRAWING NO. 1-43-1-10 1-43-1-10	SCALE 1:100	SHEET 1 OF 1 1 OF 1 1 OF 1
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BUILT UP ANGLE OF BOTTOM CHORD - BCI
 HULL UP AND F - C
 ANGLE 50-150*5 mm x 3480 mm Long
 4 Nos



BUILT UP ANGLE OF BOTTOM CHORD - BCI
 HULL UP AND F - C
 ANGLE 50-150*5 mm x 3480 mm Long
 4 Nos

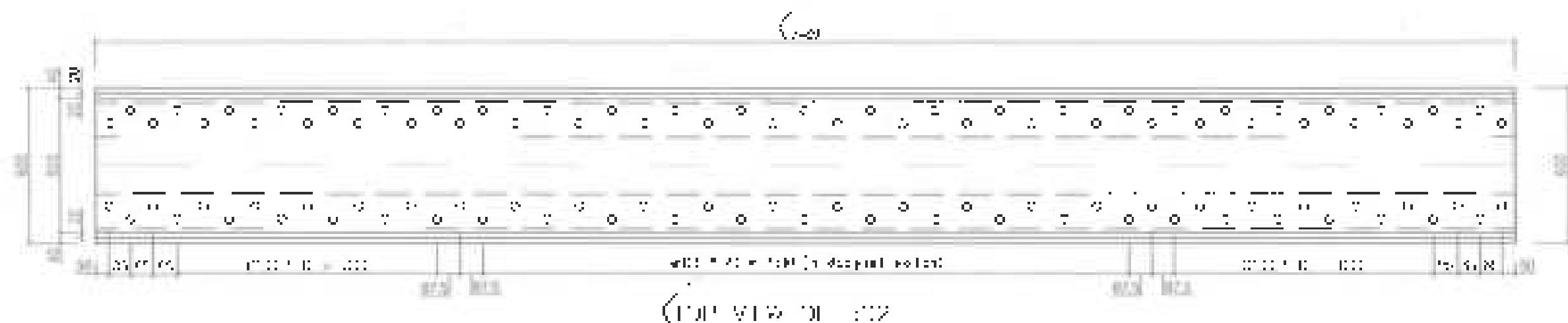


WEB PLATE OF BOTTOM CHORD - BCI
 PLATE 25*75*5450 mm = 8 Nos
 PLATE 20*75*5450 mm = 8 Nos

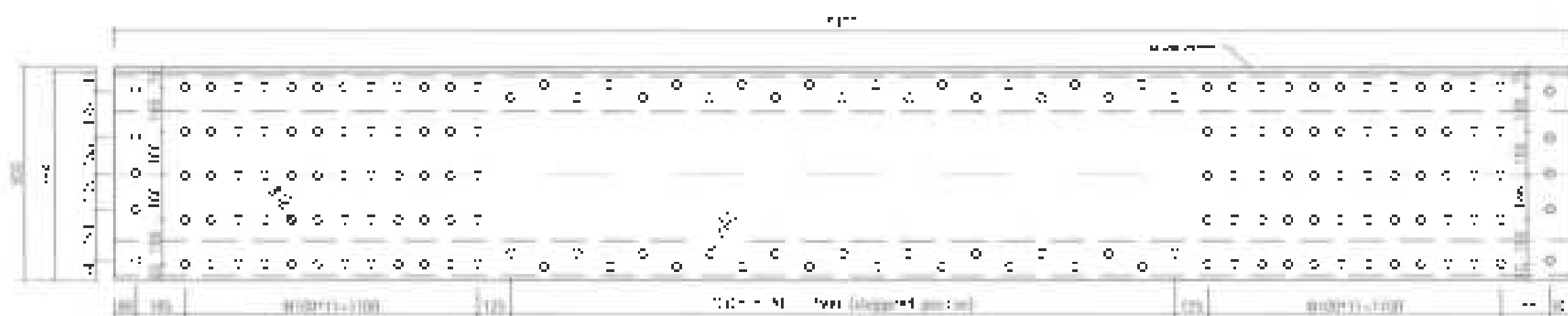


Reinforcement - BCI
 Plate 16*100*500 mm
 Required = 100 Nos

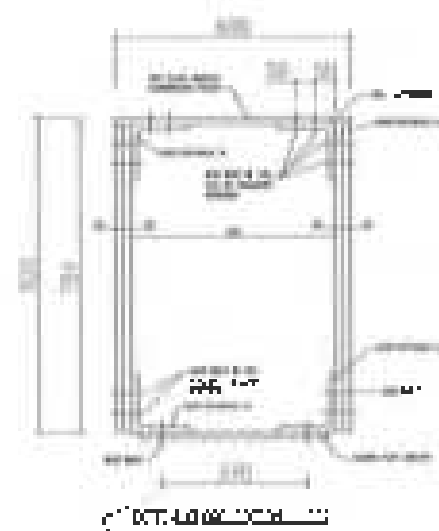
CONTRACTOR/ENGINEER DEPARTMENT OF ROADS ROAD AND BRIDGE DIVISION ADD: 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	CONSULTANT Kure Engineering Consultant Corp.	CONTRACTOR CTCE-KALINA JV BATHALIAK BATHALIAK	CONTRACT NO. CTCE-KALINA-JV CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES : CHATARA :	DRAWING NO. AS BUILT DRAWING BOTTOM CHORD - BCI	DATE 10/10/2017	DRAWN BY [Signature]	SCALE 1:10	TOTAL 10/10/2017
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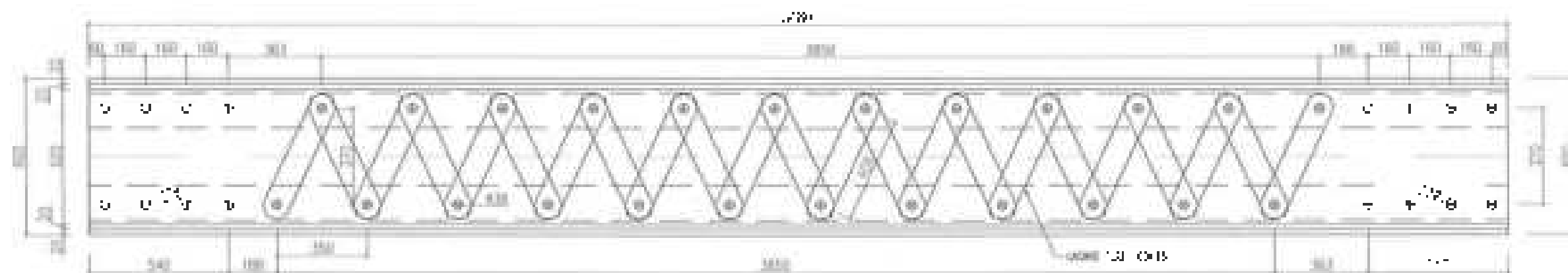
TOP VIEW OF BC1



BOTTOM VIEW OF BC1
PROVIDED - 4 #12



CROSS SECTION OF BC1

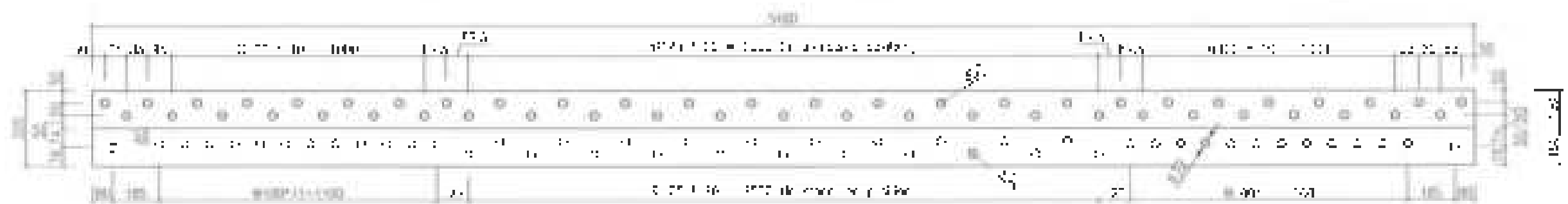


BOTTOM VIEW OF BC2

DEPARTMENT OF ROADS ROADS CONSTRUCTION DIVISION ADD: CHAULI, KATHMANDU TEL: 977-1-4233111	ENGINEER Korea Engineering Consultant Corp.	CONTRACT NO. EPC/CP/08/01/01 CONSTRUCTION OF BRIDGE AND APPROACHES (GATARA)	DESIGNER AS PER T. DRAWING DESIGNER'S NAME - BCC	DATE 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10	DESIGNER 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10	DATE 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10	DESIGNER 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10	DATE 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10	DESIGNER 1. 2018.01.10 2. 2018.01.10 3. 2018.01.10
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BUILT UP ANGLE OF BOTTOM CHORD - EC2
 (BUILT UP ANGLE - 4)
 ANGLE 150*150*16 mm * 5480 mm Long
 PROVIDED - 4 NOS

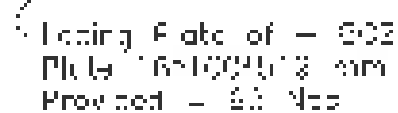
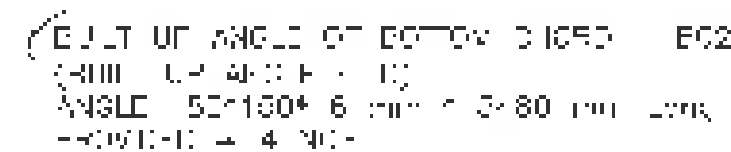
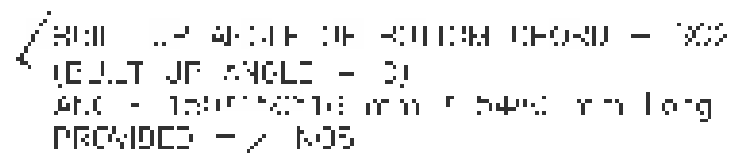


BUILT UP ANGLE OF BOTTOM CHORD - EC2
 (BUILT UP ANGLE - 4)
 ANGLE 150*150*16 mm * 5480 mm Long
 PROVIDED - 4 NOS

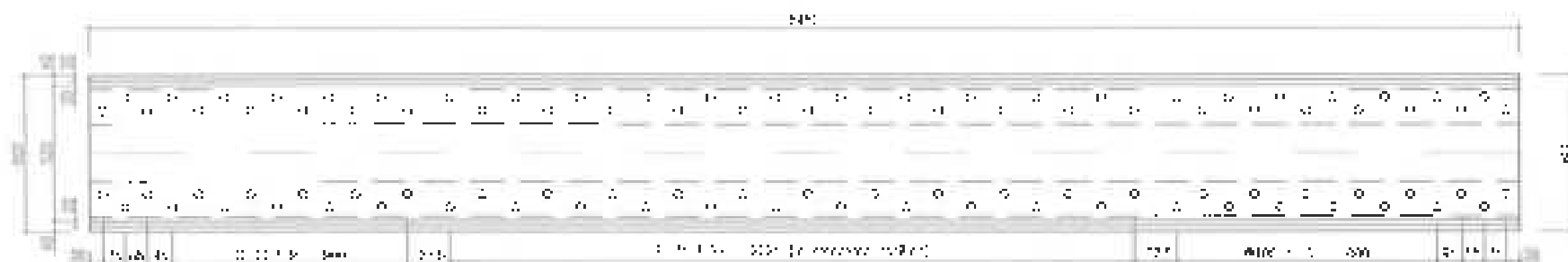


BUILT UP ANGLE OF BOTTOM CHORD - EC2
 (BUILT UP ANGLE - 4)
 ANGLE 150*150*16 mm * 5480 mm Long
 PROVIDED - 4 NOS

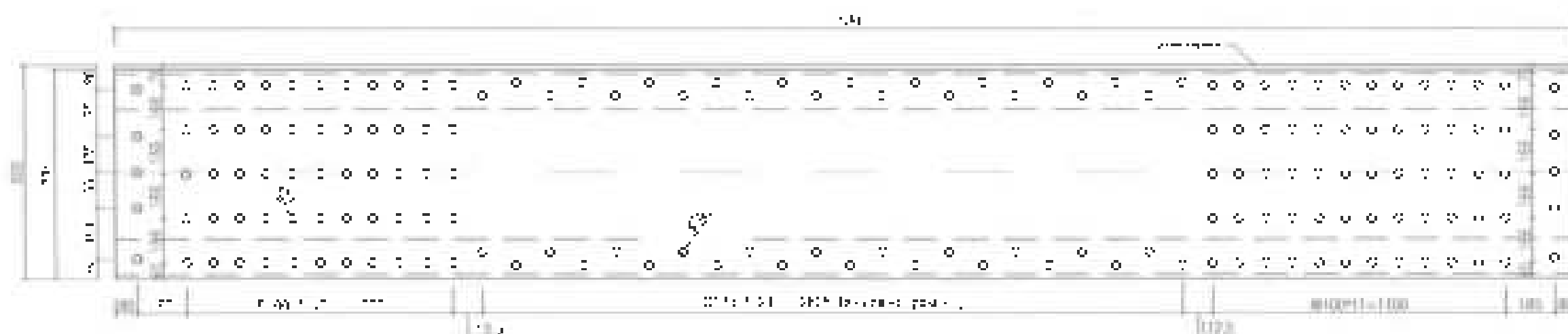
PROJECT NAME: DEPARTMENT OF ROADS PROJECT LOCATION: CHALAHARA PROJECT NO: CHALAHARA	CONSULTANT: Korea Engineering Consultant Corp.	CONTRACT NO: CTCE-KALAHARA JV BIDDING NO: KALAHARA	CONTRACT TITLE: CONSTRUCTION OF CHALAHARA BRIDGE AND APPROACHES (CHALAHARA)	DRAWING NO: CHALAHARA BRIDGE	SCALE: 1:100	DATE: 2023.08.10	DRAWN BY: CHALAHARA	CHECKED BY: CHALAHARA	DATE: 2023.08.10
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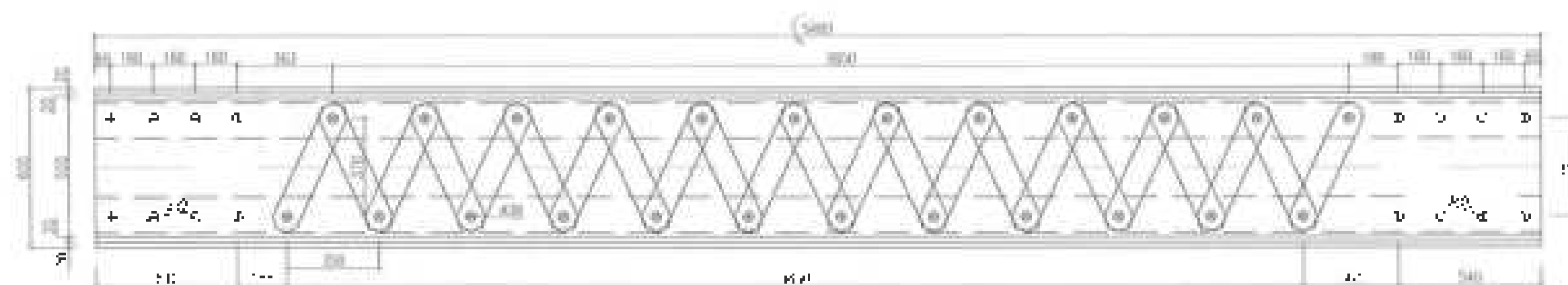
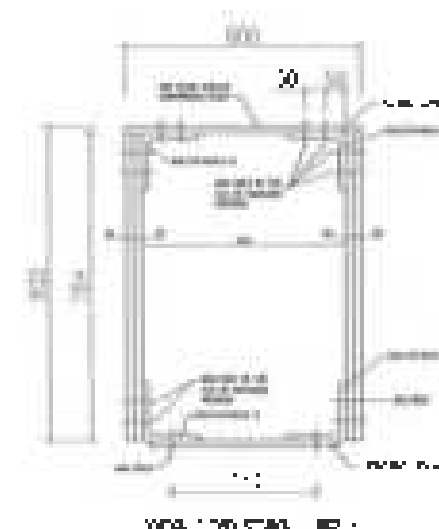
THE GOVERNMENT OF NAGALAND DEPARTMENT OF ROADS HEADQUARTERS - DISANG DISANG, COCHO, NAGALAND	Kurea Engineering Consultant Corp.	 CTO-KALIKA JV HAILONG, NAGALAND	CONTRACT NO. 100/2019 CONSTRUCTION OF KOSI BRIDGE AND APPROACHES (CHATARA)	DRAWING NO. 05-BUL-DRG-100	SCALE: 1:100 DATE: 10/05/2019	DESIGNED BY 100-B-100	CHECKED BY 100-B-100	DATE: 10/05/2019	DRAWN BY 100-B-100	DATE: 10/05/2019
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TOP VIEW OF BC2-X

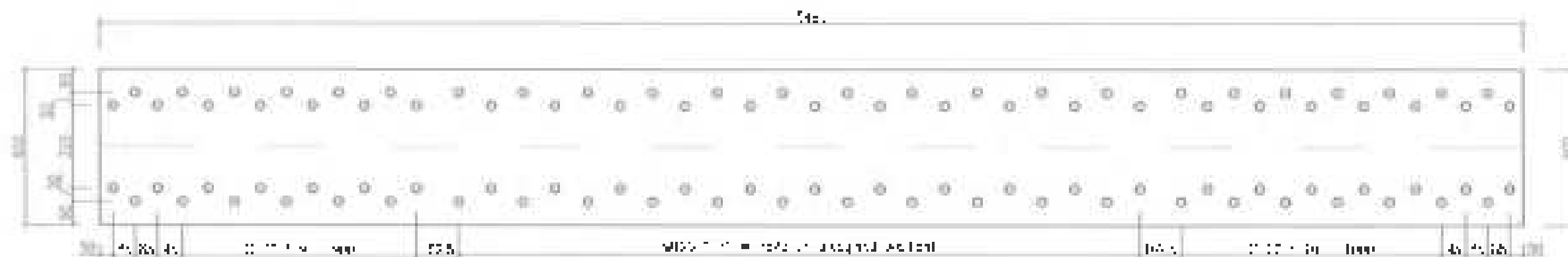


TOP VIEW OF BC2-Y
PROVIDED - 6' VOS

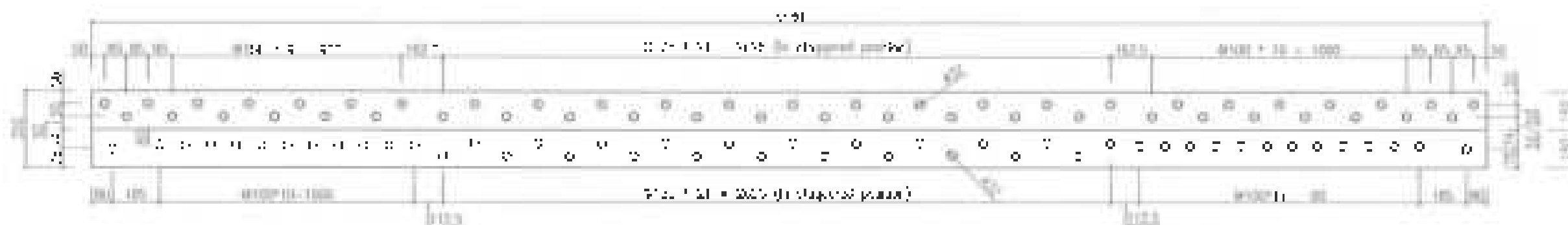


BOTTOM VIEW OF BC2-X

DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS	Kuren Engineering Consultant Corp.	C.TOR-KALUKA MY BATHMALAR, BATHMALAR	CONSTRUCTION OF 400 ft BRIDGE AND APPROACHES (CHATARA)	AS BUILT DRAWING 801-000000-0000	2000.00.00 2000.00.00 2000.00.00	2000.00.00 2000.00.00 2000.00.00	2000.00.00 2000.00.00 2000.00.00	2000.00.00 2000.00.00 2000.00.00	2000.00.00 2000.00.00 2000.00.00
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TOP PLATE OF BOTTOM CHORD - EC2-X
PLATE 10 x 1000 x 5450 MM
PROVIDED - 4 NOS

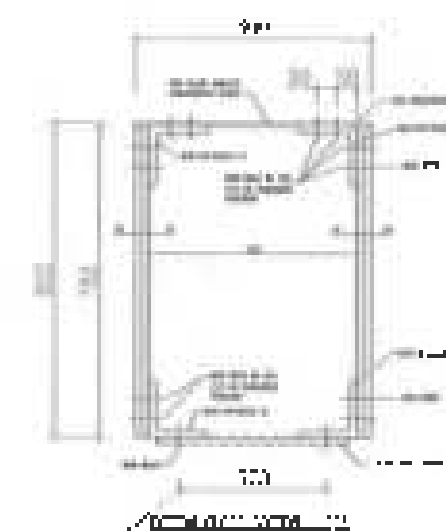
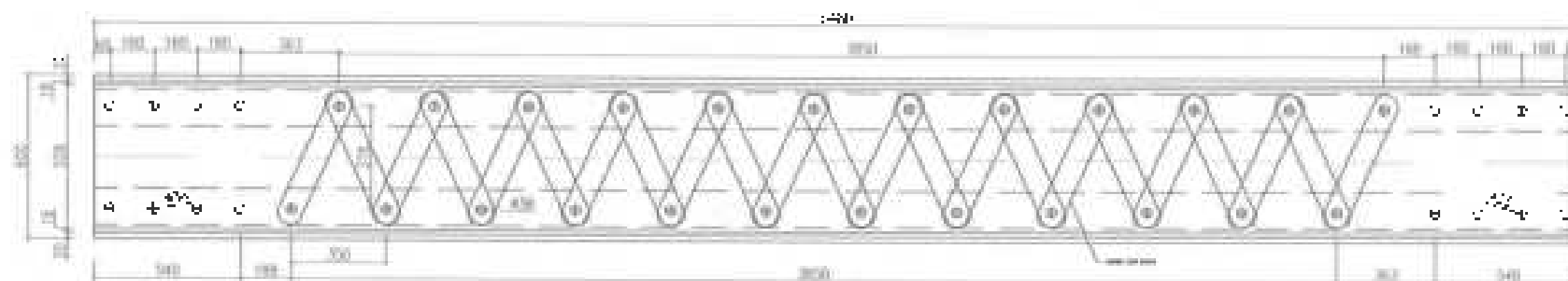
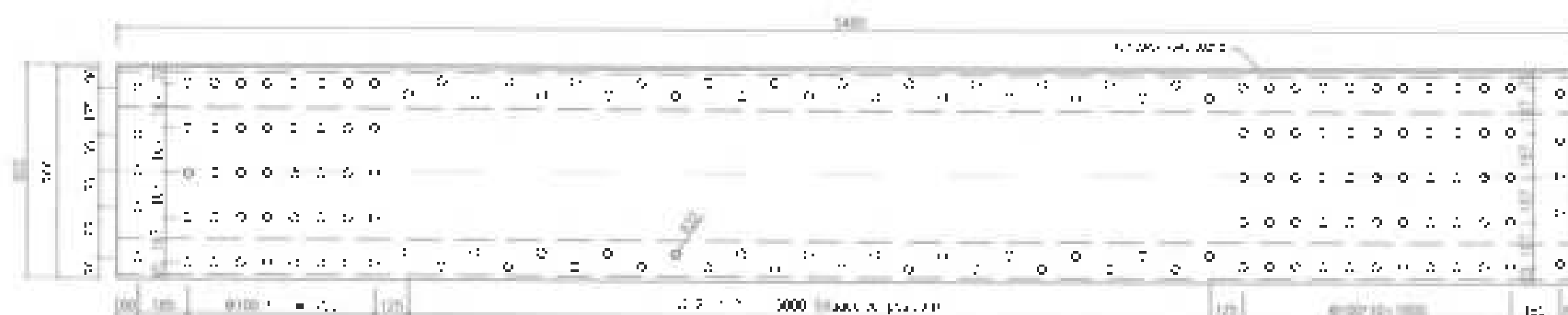


BUILT UP ANGLE OF BOTTOM CHORD - EC2-X
(BUILT UP ANGLE - 3)
ANGLE 10010110 mm x 1450 mm Long
PROVIDED - 4 NOS



BUILT UP ANGLE OF BOTTOM CHORD - EC2-X
(BUILT UP ANGLE - 3)
ANGLE 10010110 mm x 1450 mm Long
PROVIDED - 4 NOS

DEPARTMENT OF ROADS KOSHI ENGINEERING CONSULTANT CORP.	Kosva Engineering Consultant Corp.	CTCE-KALUKA TV BALIWAJARI, KATHMANDU	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATAKA)	ASSEMBLY DRAWING NO. KOSHI BRIDGE - 1000	DATE: 2073/10/10	SCALE: 1:100	DATE: 2073/10/10	NO. OF SHEETS: 2
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[illegible]



TOP PLATE OF BOTTOM CORNER = 800
 (BUILT UP ANGLE = 3)
 AND - 1500 x 150 mm x 5450 mm long
 REQUIRED = 1 NOS



BUILT UP ANGLE OF BOTTOM CORNER = 800
 (BUILT UP ANGLE = 3)
 AND - 1500 x 150 mm x 5450 mm long
 REQUIRED = 1 NOS



BUILT UP ANGLE OF BOTTOM CORNER = 800
 (BUILT UP ANGLE = 3)
 AND - 1500 x 150 mm x 5450 mm long
 REQUIRED = 1 NOS

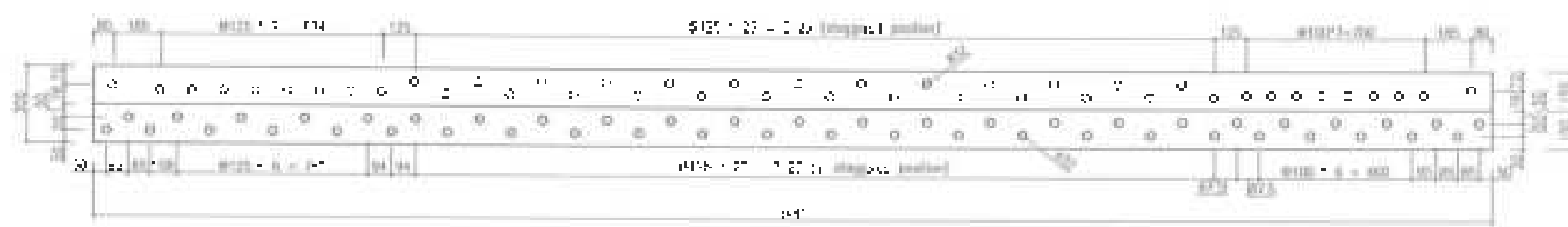
CONTRACT NO. 100/2019 DEPARTMENT OF TRAVLS ROAD CONSTRUCTION & MAINTENANCE PROJECT NO. 100/2019 KATHMANDU	Kaya Engineering Consultant Corp.	CHITRE-KALIKA JV RAJAWADEL BATHMANI	CONTRACT NO. 100/2019 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	AS PER DRAWING BOTTOM CORNER 100	DRAWING NO. DATE SCALE	SCALE = 1:50	DATE ATTACHED DATE OF APPROVAL DATE = 3 DATE = 2019
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TOP PLATE OF BOTTOM CHORD - BCS-X
 PLATE 2 * 600 * 1080 mm
 REQUIRED - 4 NOS

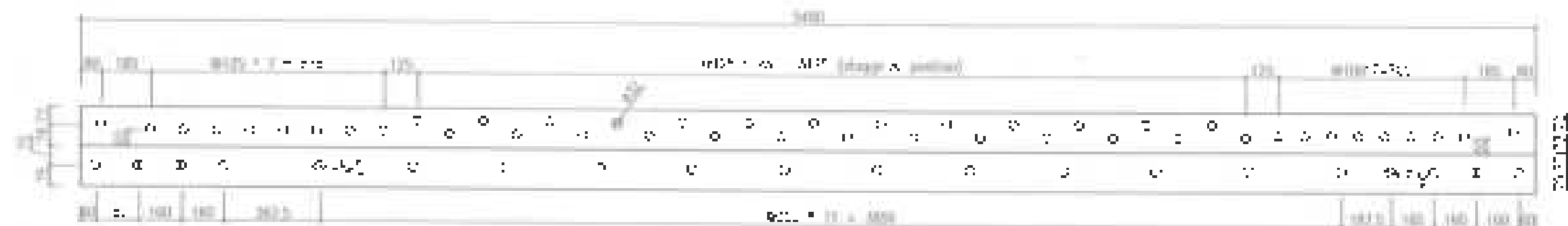


BUILT UP ANGLE OF BOTTOM CHORD - BCS-X
 (BUILT UP ANGLE - C)
 ANGLE 100*50*10 mm * 5400 mm Long
 REQUIRED - 4 NOS

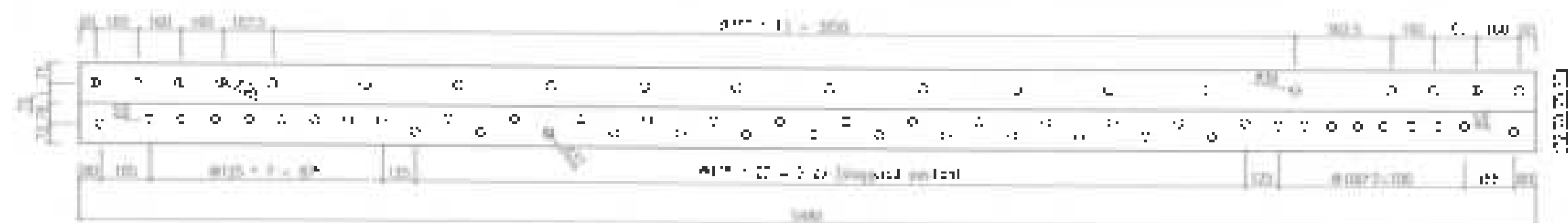


BUILT UP ANGLE OF BOTTOM CHORD - BCS-X
 (BUILT UP ANGLE - C)
 ANGLE 100*50*10 mm * 5400 mm Long
 REQUIRED - 4 NOS

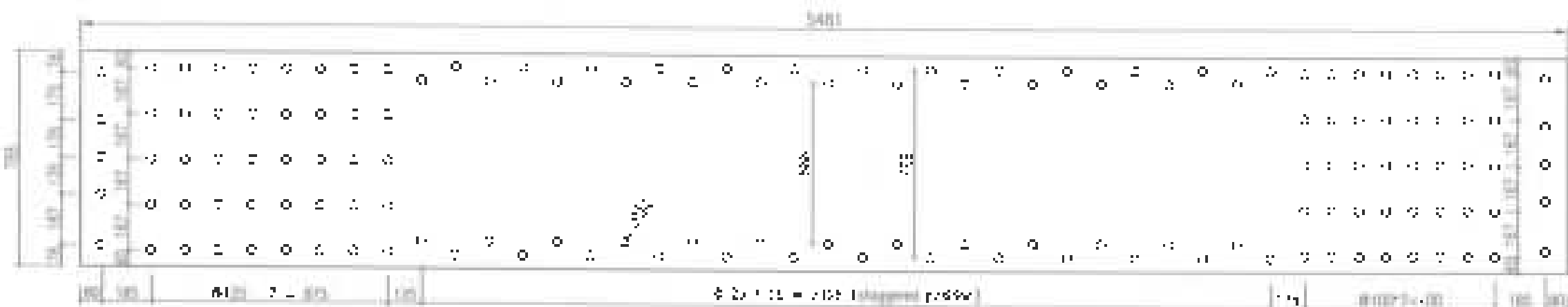
GOVERNMENT OF KERALA DEPARTMENT OF HIGHWAYS ROAD CONSTRUCTION DIVISION TECHNICAL OFFICE Kozhikode	CONSULTANT Korea Engineering Consultant Corp.	PROJECT CHENNAI-KANNIYAR BALUWADI, K. CHIMMANI	CONTRACT NO. 100/2000 CONSTRUCTION OF 40SH BRIDGE AND APPROACHES (CHATAKA)	DRAWING NO. AS BUILT DRAWING BOTTOM CHORD - BCS-X	SHEET NO. 1 OF 1	DATE 10/10/2000	SCALE 1:10	PROJECT NO. 100/2000	DRAWN BY 10/10/2000
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JOINT UP ANGLE OF BOTTOM CHORD = 90°-X
 (JOINT UP ANGLE = 0)
 ANGLE 150*20*10 mm = 5480 mm Long
 REQUIRED = 2 Nos



JOINT UP ANGLE OF BOTTOM CHORD = 90°-X
 (JOINT UP ANGLE = 0)
 ANGLE 150*20*10 mm = 5480 mm Long
 REQUIRED = 2 Nos

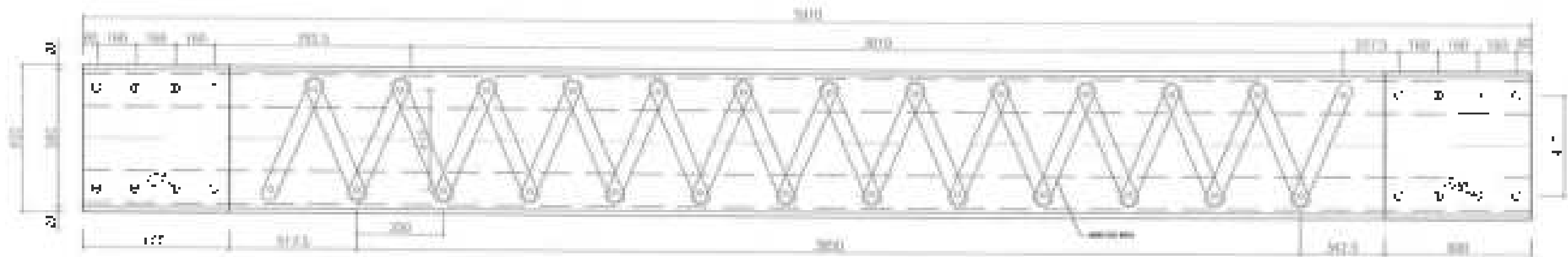


WELD PLATE OF BOTTOM CHORD = 150*10
 PLATE 20*785*400 mm = 2 Nos
 PLATE 15*785*280 mm = 2 Nos

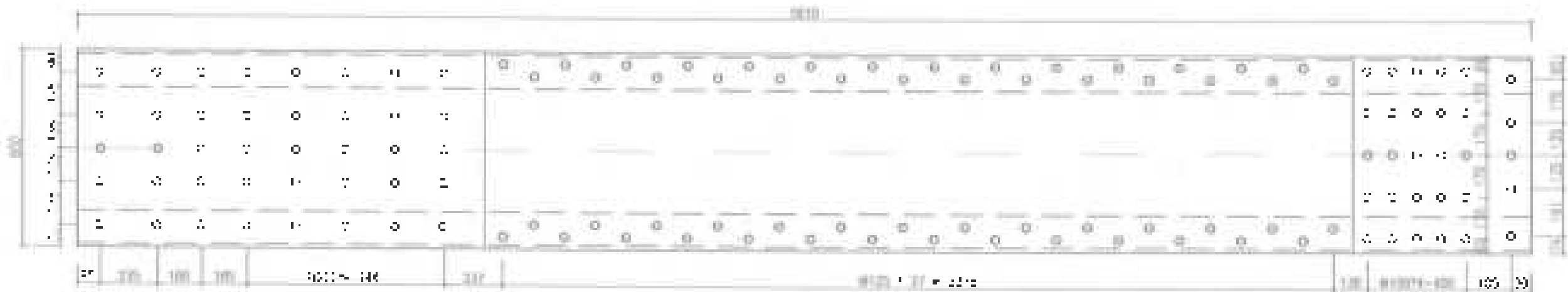


Welding Plate of = 150*10
 Plate 15*785*280 mm
 Required = 2 Nos

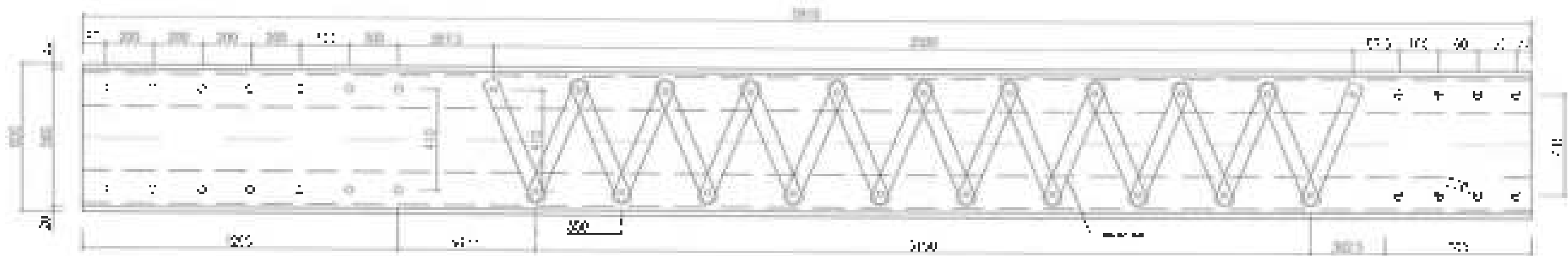
PROJECT NO. 100/2019 DEPARTMENT OF ROADS ROAD AND BRIDGE DIVISION ROAD DESIGN SECTION ROAD DESIGN SECTION	PREPARED BY Korea Engineering Consultant Corp.	CHECKED BY CTCE KALKA JV BALAJIWAR, NATHAN (CTCE)	CONSULTING ENGINEER CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA ;	DRAWING NO. AS PER DRAWING BOTTOM CHORD - 100X	SCALE 1:100 1:100 1:100	DATE 10/01/2020	PROJECT NO. 100/2019	SHEET NO. 100/2019
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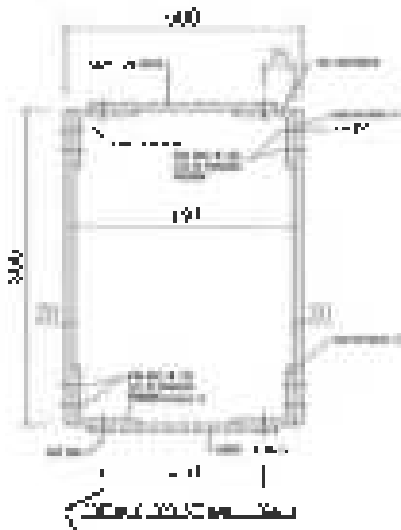
TOP VIEW OF BOX 4-X



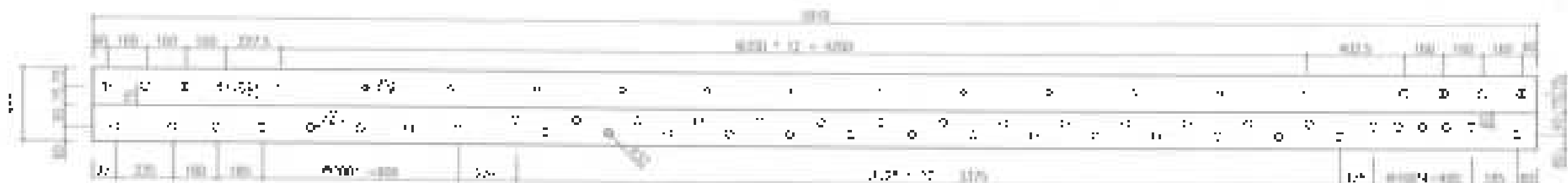
BOTTOM CHORD - BOX-X
FROM IN = 1500



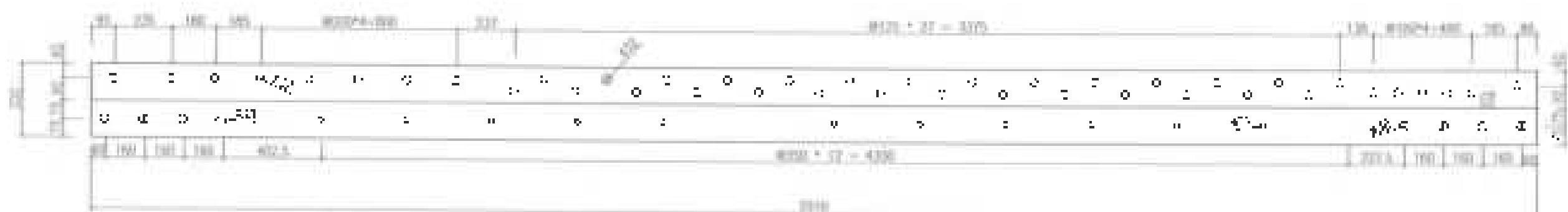
BOTTOM VIEW OF BOX-X



REPUBLIC OF KOREA MINISTRY OF LAND, URBAN AND PLANNING KOREAN HIGHWAY CORPORATION	DESIGNER Korea Engineering Consultant Corp.	APPROVED CHONG-KALIKU JV NATIONAL WATER RESOURCES	CONTRACT NO. EEPF-COR-2017-001 CONSTRUCTION OF CUSH BRIDGE AND APPROACHES (CUSHARA)	DESIGN NO. AS BUILT DRAWING BOTTOM CHORD BOX-X	DATE 10/10/2017 10/10/2017	DESIGNED BY CHECKED BY APPROVED BY	SCALE 1:100	DATE 10/10/2017 10/10/2017 10/10/2017
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REINFORCEMENT OF TOP CHORD 504-X
(QUILT UP ANGLE - A)
ANGLE 130°-150° mm x 1800 mm Long
PROVIDED - 4 NOS

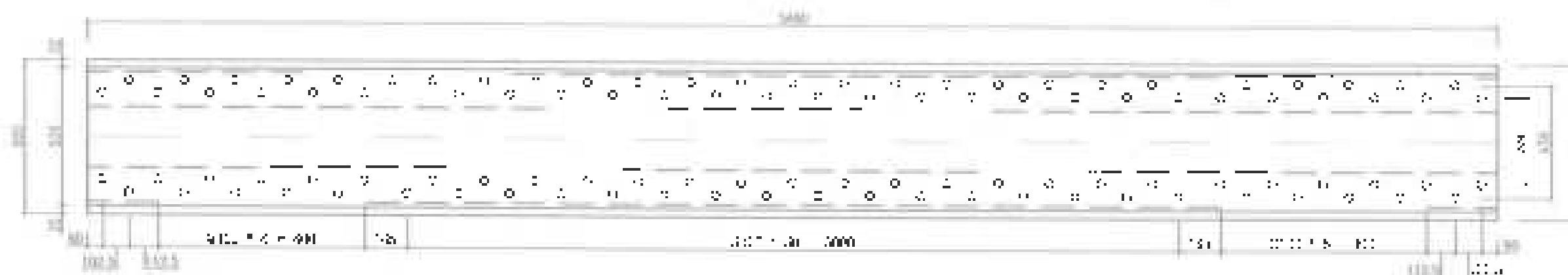


REINFORCEMENT OF BOTTOM CHORD 504-X
(QUILT UP ANGLE - E)
ANGLE 130°-150° mm x 1800 mm Long
PROVIDED - 4 NOS

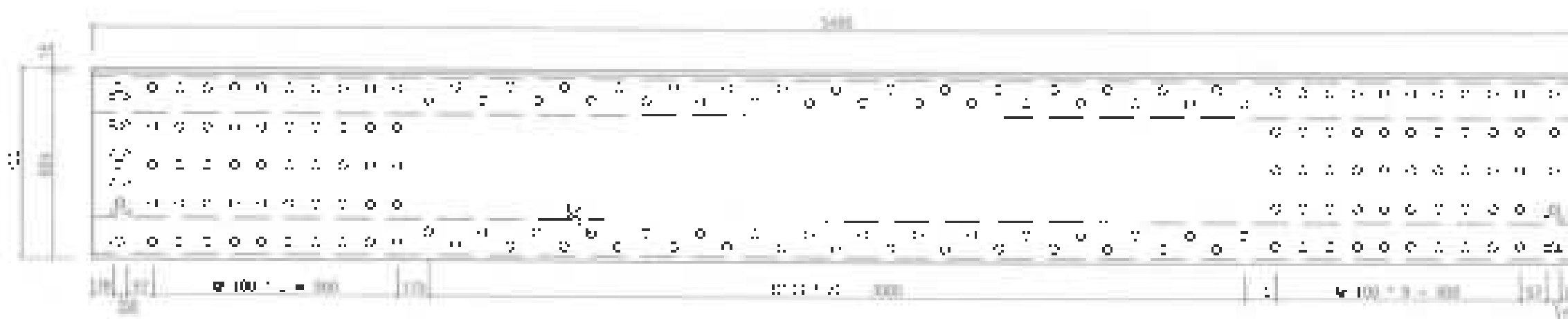


REINFORCEMENT OF BOTTOM CHORD 504-X
(QUILT UP ANGLE - C)
ANGLE 130°-150° mm x 1800 mm Long
PROVIDED - 4 NOS

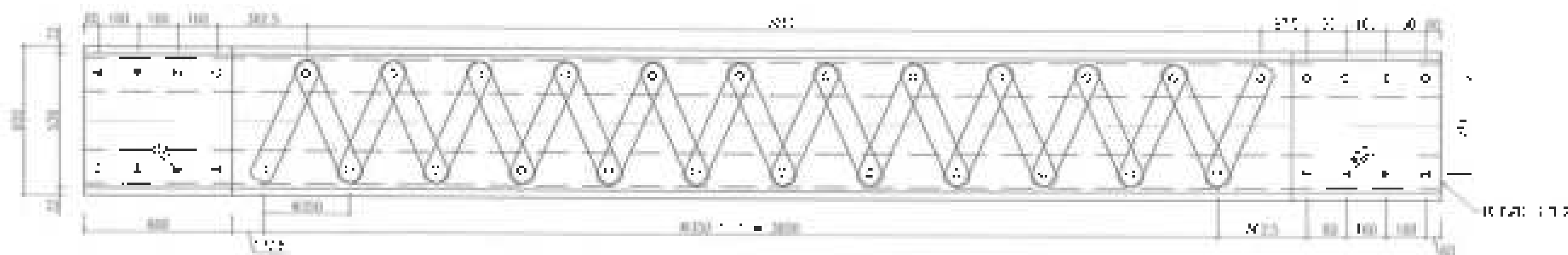
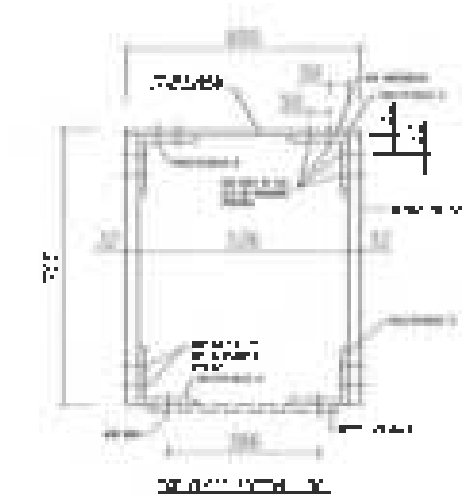
CONTRACTOR'S NAME KERALA ENGINEERING CONSULTANTS DEPARTMENT OF ROADS ROADWORKS AND HIGHWAYS ADDRESS: KERALA TEL: 0471-2345678	CONSULTANT Kerala Engineering Consultant Corp.	CONTRACTOR CTCE-KALIKA JV BULLWATER, KATHAMUNDU	CONTRACT NO. FERM/2018/01 CONSTRUCTION OF CROSS-BRIDGE AND APPROACHES (CHATTARA)	PROJECT CODE AS BUILT DRAWING BOTTOM CHORD 504-X	DATE ISSUED 10/10/2018 DRAWN BY 10/10/2018 CHECKED BY 10/10/2018	SCALE 1:20	SHEET NO. 10/10/2018 10/10/2018 10/10/2018
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TOP VIEW OF CI-101



TOP VIEW OF CI-102
PROVIDED 8 NOS



BOTTOM VIEW OF CI-101

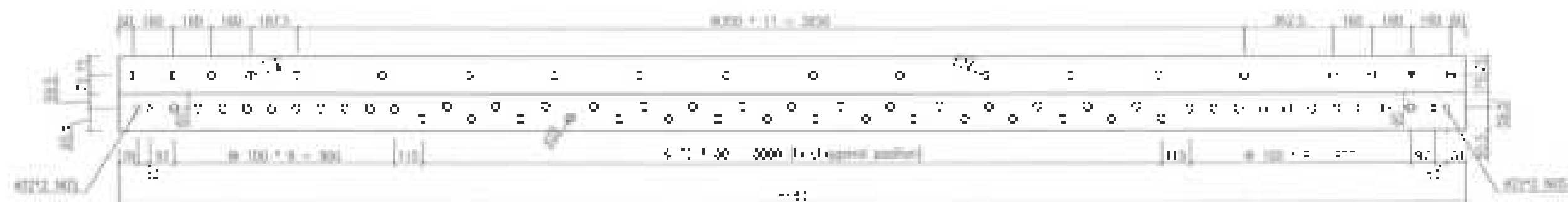
DEPARTMENT OF ROADS KERALA ROAD DEVELOPMENT AND MAINTENANCE CORPORATION KERALA KODIM KODIM	CONTRACTOR Korea Engineering Corporation Corp.	PROJECT CTCE-KALIKA JV KERALA RAILWAY KERALA RAILWAY	CONTRACT NO. EPC/PC/0001 CONSTRUCTION OF CORR. BRIDGE AND APPROACHES (CI ATARA)	DRAWING NO. AS BUILDING TOP SHEET TO	DATE 10/01/2018 10/01/2018	SCALE 1:100 1:100	PROJECT KERALA RAILWAY	DATE 10/01/2018 10/01/2018 10/01/2018
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BUILT UP ANGLE OF TOP CHORD = TC1-2
(BUILT UP ANGLE = 0 - OUTER SIDE)
ANGLE = 150° x 16 mm x 5400 mm Long
PROVIDED = 1 NOS

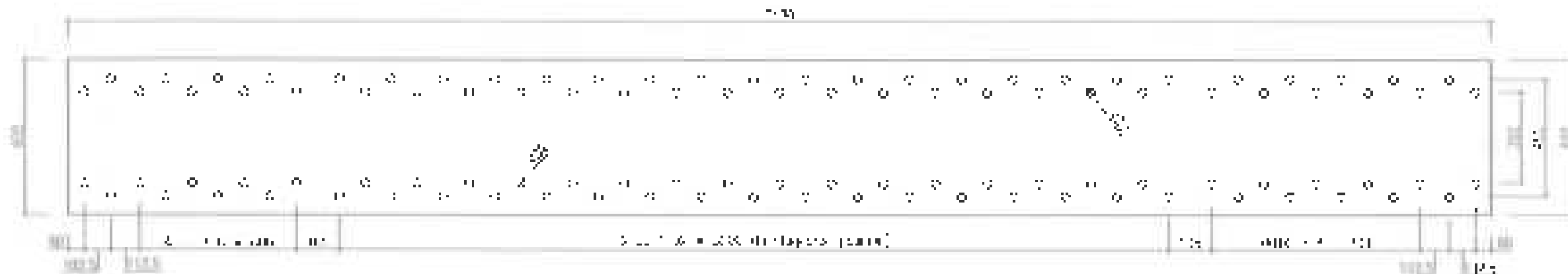


BUILT UP ANGLE OF TOP CHORD = TC1-1
(BUILT UP ANGLE = 0 - INNER SIDE)
ANGLE = 150° x 16 mm x 5400 mm Long
PROVIDED = 1 NOS

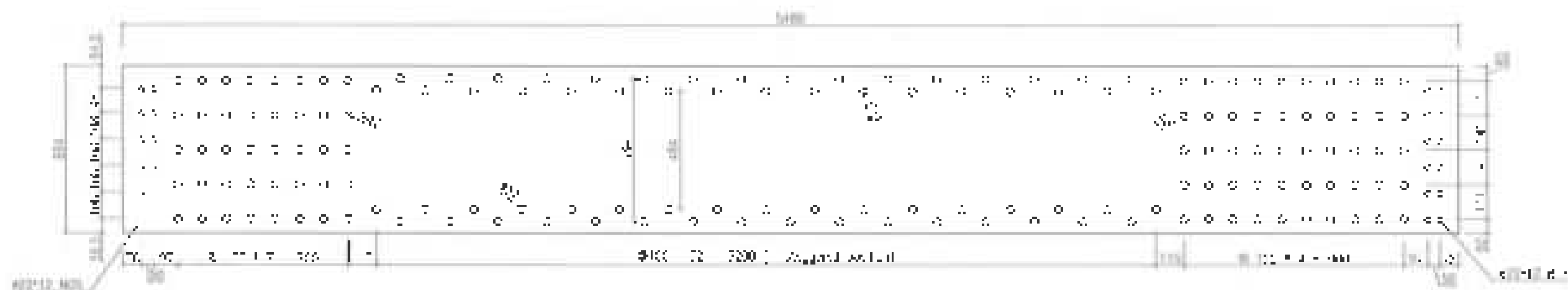


BUILT UP ANGLE OF TOP CHORD = TC1-3
(BUILT UP ANGLE = 0 - INNER SIDE)
ANGLE = 150° x 16 mm x 5400 mm Long
PROVIDED = 1 NOS

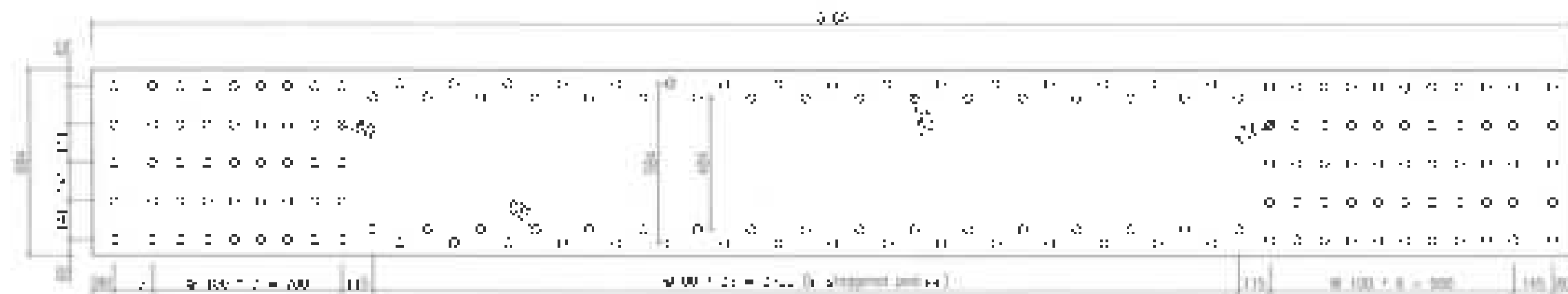
DEPARTMENT OF ROADS KOSHI PROVINCE, NEPAL KATHMANDU	DESIGNER Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KALIKA JV DAI NIPPON KAIEN KAISHA LTD.	CONTRACT NO. EEP/CP/001 CONSTRUCTION OF KOSHI-BARI TOH AN : APPROACHES (CHITARA)	PROJECT NO. ASB/1/2017/01 TOPIC CODE: 01	DATE: 2017/01/01 DRAWN BY: [Signature] CHECKED BY: [Signature]	SCALE: 1:200	REVISION NO. 1 DATE: 2017/01/01
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TOP COVER PLATE OF TOP CHORD 102
 PLATE 2400 x 1000 mm 1/4 No.

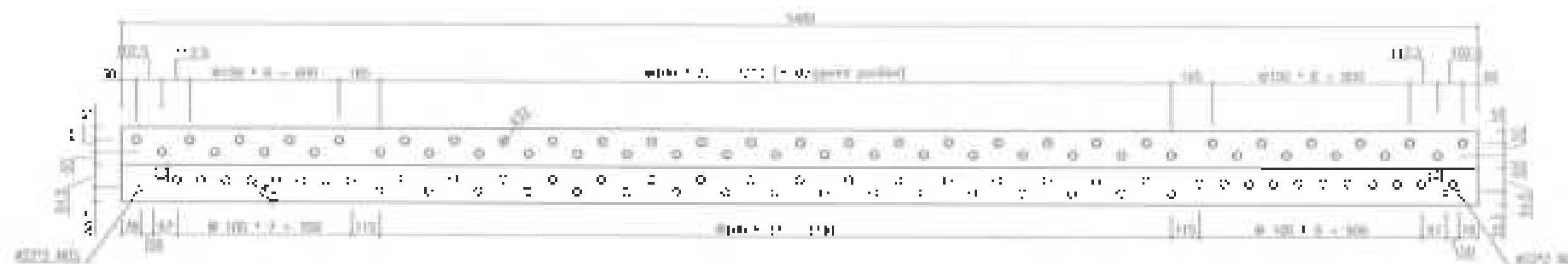


TOP CHORD INNER WEB PLATE 102
 PLATE 2400 x 1000 mm 1/4 No.



TOP CHORD OUTER WEB PLATE 102
 PLATE 2400 x 1000 mm 1/4 No.

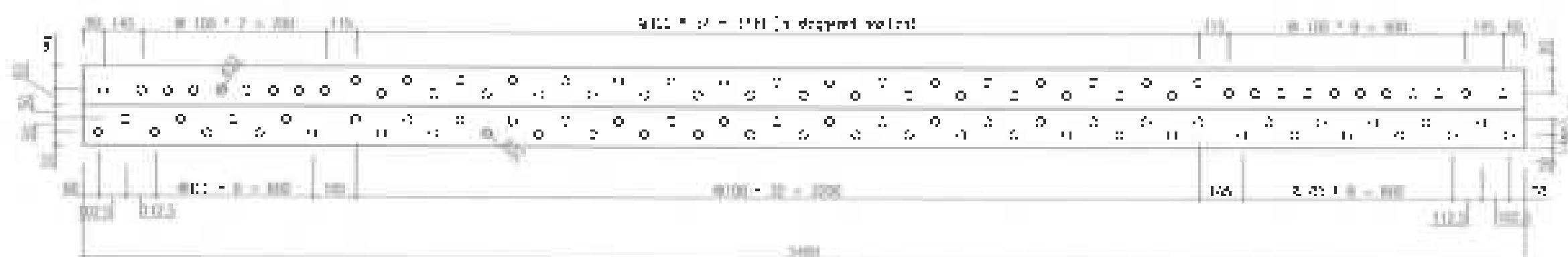
PROJECT NAME DEPARTMENT OF ROADS NATIONAL INFRASTRUCTURE PROJECT KOSHI BRIDGE AND APPROACHES (DHADARA)	CONTRACT NO. Korea Engineering Construction Corp.	CONTRACTOR CHOI-KATANA JV NATIONAL INFRASTRUCTURE	PROJECT NAME CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (DHADARA)	DRAWING NO. AS YIT DRAWING TOP CHORD - 102	SCALE 1/100 1/100 1/100	DATE 2023.10.10	DRAWN 2023.10.10	CHECKED 2023.10.10	DATE 2023.10.10 2023.10.10 2023.10.10
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BUILT UP ANGLE OF TOP CHORD - T02-L
 (BUILT UP ANGLE - A - INNER SIDE)
 ANGLE 150°150°15 mm * 5450 mm Long
 REQ. REQ - 4 NOS

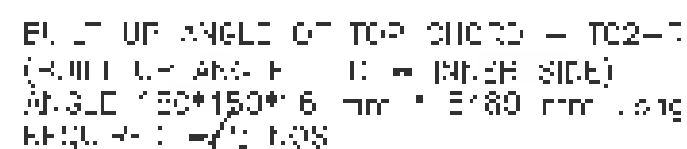
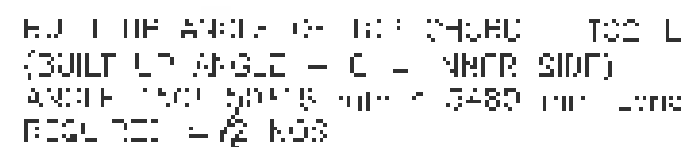
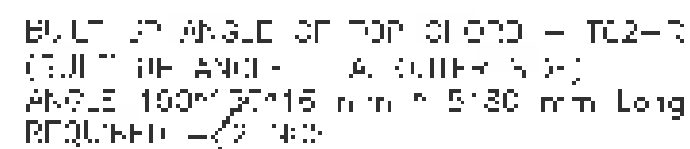


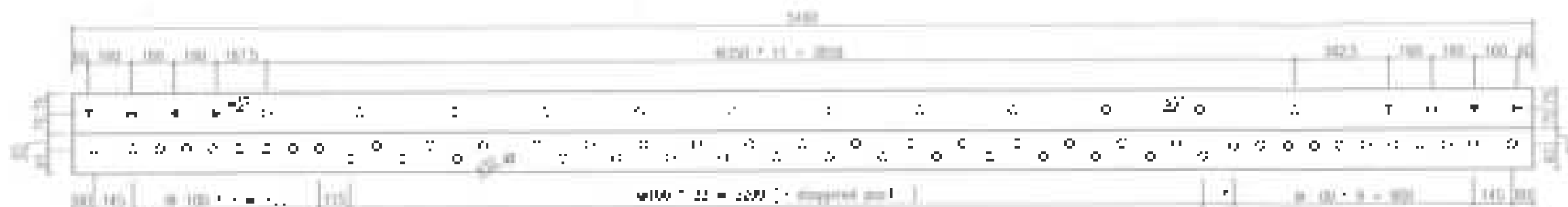
BUILT UP ANGLE OF TOP CHORD - T02-R
 (BUILT UP ANGLE - B - OUTER SIDE)
 ANGLE 150°150°15 mm * 5450 mm Long
 REQ. REQ - 4 NOS



BUILT UP ANGLE OF TOP CHORD - T02-L
 (BUILT UP ANGLE - B - OUTER SIDE)
 ANGLE 150°150°15 mm * 5450 mm Long
 REQ. REQ - 4 NOS

PREPARED BY: DEPARTMENT OF HIGHWAYS DRAWN BY: CHITRA KATINA JY CHECKED BY: CHITRA KATINA JY DATE: 10/05/2018	PROJECT: Kosher DCE and Approaches CONSULTANT: Kosher Engineering Consultant Corp.	CONTRACT NO.: CHITRA KATINA JY DRAWING NO.: CHITRA KATINA JY	CONTRACTED ITEM: CONSTRUCTION OF KOSHER DCE AND APPROACHES (CHITARA)	DRAWING NO.: AS BUILT DRAWING DATE: 10/05/2018	SCALE: 1:100	SHEET NO.: 6	TOTAL SHEETS: 6	DATE: 10/05/2018
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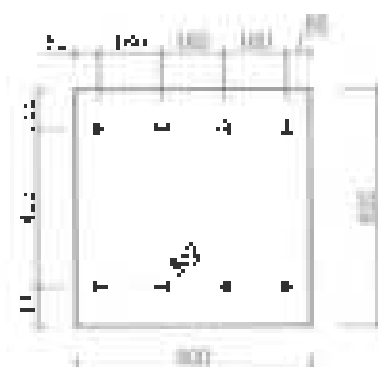
[illegible]



BL 1 - UP ANGLE OF TOP CHORD - TC2-1
(BUILT UP ANGLE - C - OUTER SIDE)
ANGLE 1200x16 mm x 5400 mm Long
REQUIRED - 2 NOS



BL 2 - UP ANGLE OF TOP CHORD - TC2-2
(BUILT UP ANGLE - C - OUTER SIDE)
ANGLE 1200x16 mm x 5400 mm Long
REQUIRED - 2 NOS

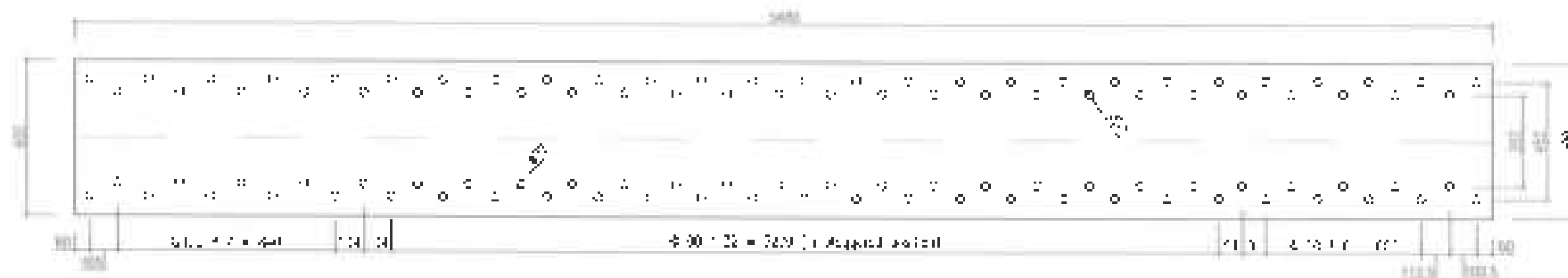


Top Flange of - TC2
Plate 1200x16 mm
Required - 3 Nos

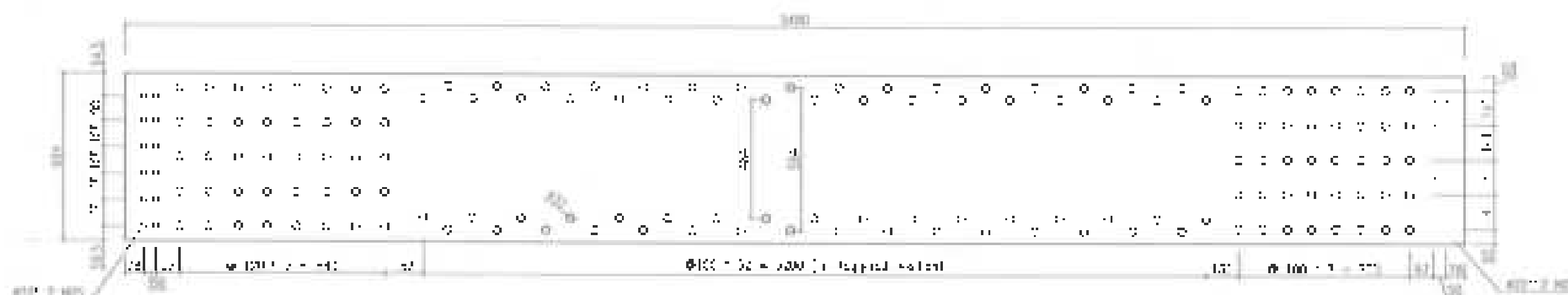


Long Flange of - TC2
Plate 1200x16 mm
Required - 2 Nos

DRAWING NO. 10/2019 PROJECT NO. 10/2019 DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION ROAD NO. 10/2019 ROAD NO. 10/2019	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTCCL-KALUKA JV BALLYAATIL KAPIMANIRU	CONTRACTED TECHNOLOGY CONSTRUCTION OF KOSI RIDGE AND APPROACHES (CHALARA)	DRAWING NO. 10/2019-102	SHEET NO. 10/2019-102	DATE 10/2019	SCALE 1:100	PROJECT NO. 10/2019
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TOP COVER PLATE OF TOP CHORD - T02-X
H14 - 10 x 100 x 3000 mm
REGD. NO. - 105

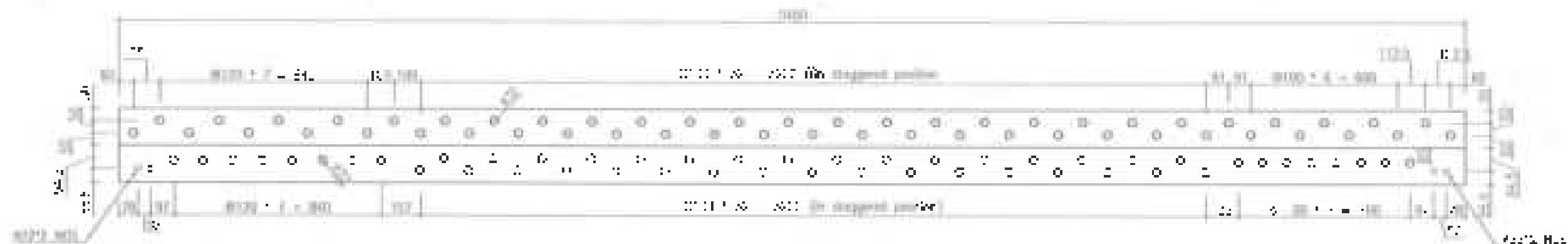


WEB PLATE OF TOP CHORD - T02-X
TOP CHORD INNER WEB PLATE
PLATE 24x68x3000 mm - 105

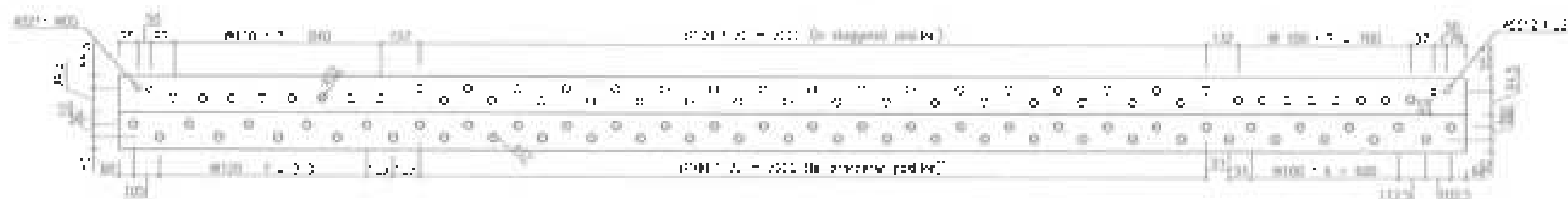


WEB PLATE OF TOP CHORD - T02-X
TOP CHORD INNER WEB PLATE
PLATE 24x68x3000 mm - 105

DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS DEPARTMENT OF ROADS	Kuma Engineering Consultant Corp.	CTCE-KALIKA JV BALLYKATIL KATHIMANNI	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	ASSEMBLY DRAWING TOP CHORD - T02X	DATE: 10/10/2015 DRAWN BY: [Signature] CHECKED BY: [Signature]	SCALE: 1:100	DATE: 10/10/2015	DRAWN BY: [Signature] CHECKED BY: [Signature]
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BUILT UP ANGLE OF TOP CHORD = TOP-X-
 (BUILT UP ANGLE = E = INNER SIDE)
 ANGLE 50°/150° 6 mm x 500 mm Long
 REQUIRED = (2 NOS)



BUILT UP ANGLE OF TOP CHORD = TOP-X-
 (BUILT UP ANGLE = E = INNER SIDE)
 ANGLE 50°/150° 6 mm x 500 mm Long
 REQUIRED = (2 NOS)

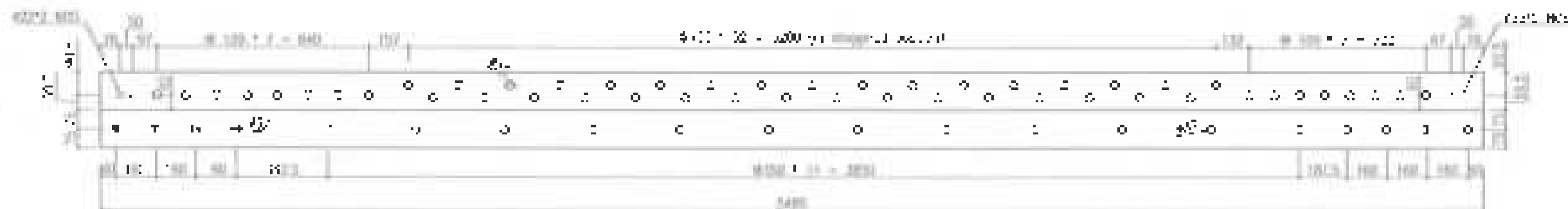


BUILT UP ANGLE OF TOP CHORD = TOP-X-
 (BUILT UP ANGLE = E = OUTER SIDE)
 ANGLE 50°/150° 6 mm x 500 mm Long
 REQUIRED = (2 NOS)

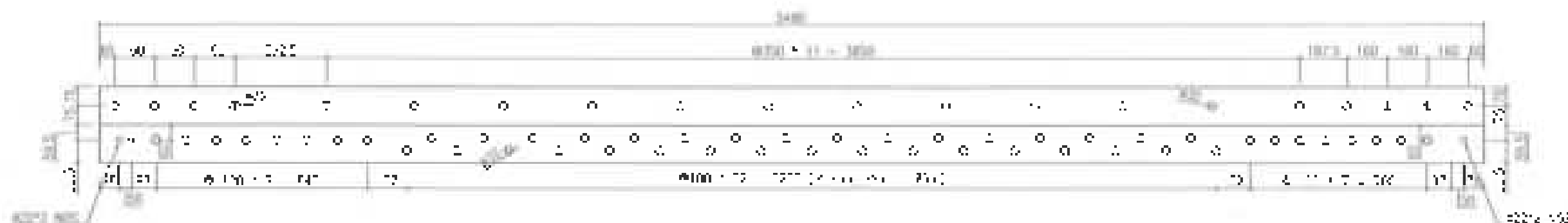
DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION ROAD CONSTRUCTION SECTION ROAD CONSTRUCTION UNIT ROAD CONSTRUCTION UNIT ROAD CONSTRUCTION UNIT	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KALKA JV BANGKOK, THAILAND	PROJECT TITLE CONSTRUCTION OF KOSHEBRI KHE AND APPROACHES (CHITARA)	DRAWING NO. ASSET TENDON TOP CHORD-TOPX	SCALE 1:100 1:200 1:500	DATE 2023/05/10	REVISION SCALE = 1:100	SHEET NO. 100/100 100/100 100/100
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BUILT UP ANGLE OF TOP CHORD = TC2-X-R
(BUILT UP ANGLE = 0 = INNER SIDE)
ANGLE 150*150*16 mm x 5400 mm Long
REQUIRED = 2 NOS



BUILT UP ANGLE OF TOP CHORD = TC3-X-R
(BUILT UP ANGLE = 0 = INNER SIDE)
ANGLE 150*150*16 mm x 5400 mm Long
REQUIRED = 2 NOS

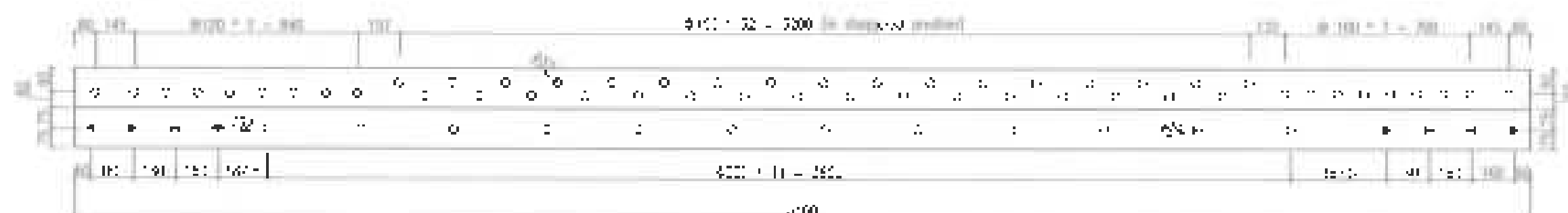


BUILT UP ANGLE OF TOP CHORD = TC3-X-R
(BUILT UP ANGLE = 0 = INNER SIDE)
ANGLE 150*150*16 mm x 5400 mm Long
REQUIRED = 2 NOS

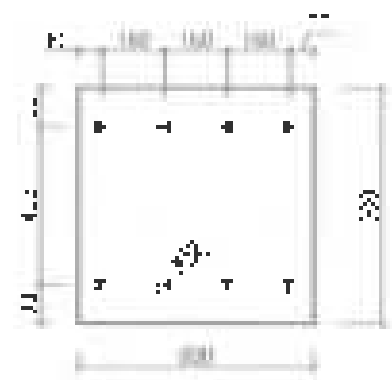
GOVERNMENT OF KERALA DEPARTMENT OF ROADS CONSTRUCTION & MAINTENANCE SECTION KERALA ROADWAYS KERALA ROADWAYS	CONTRACTOR Korea Engineering Consultant Corp.	CONTRACTOR CHIEF-KALIKAV BALUNATHA KATHIRASUL	SUPERVISOR CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (SHALARA)	DRAWING NO. AS BUILT DRAWING TOP CHORD- TC2X	DATE 2023.10.10	SCALE 1:100	SHEET NO. 08	TOTAL SHEETS 10
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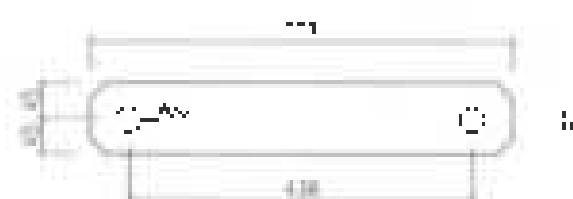
REINFORCEMENT OF DECK SLAB - 10% X 10
(BUILT UP ANGLE - 0 - OUTER SIDE)
AND F 150X150 mm 1 5450 mm long
REQD REIN - 12 NOS



REINFORCEMENT OF DECK SLAB - 10% X 10
(BUILT UP ANGLE - 0 - OUTER SIDE)
AND F 150X150 mm 1 5450 mm long
REQD REIN - 12 NOS

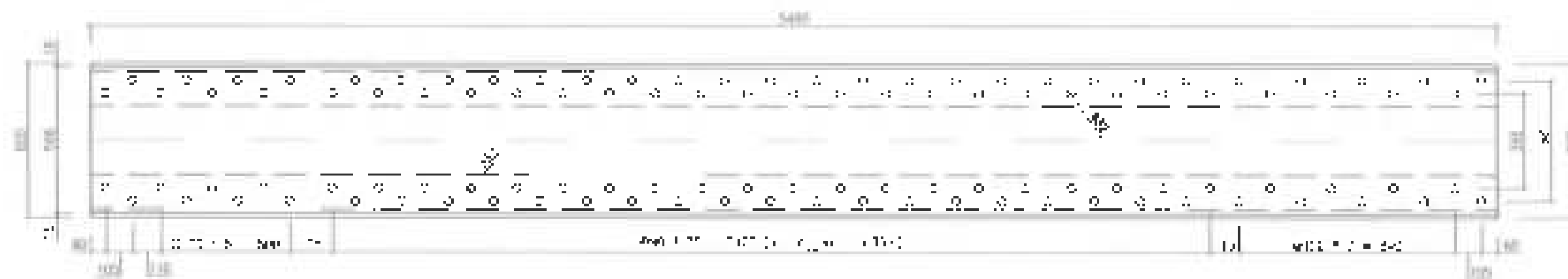


Top Plate of - 10% X 10
Plate 1500X600 mm
Required - 12 NOS

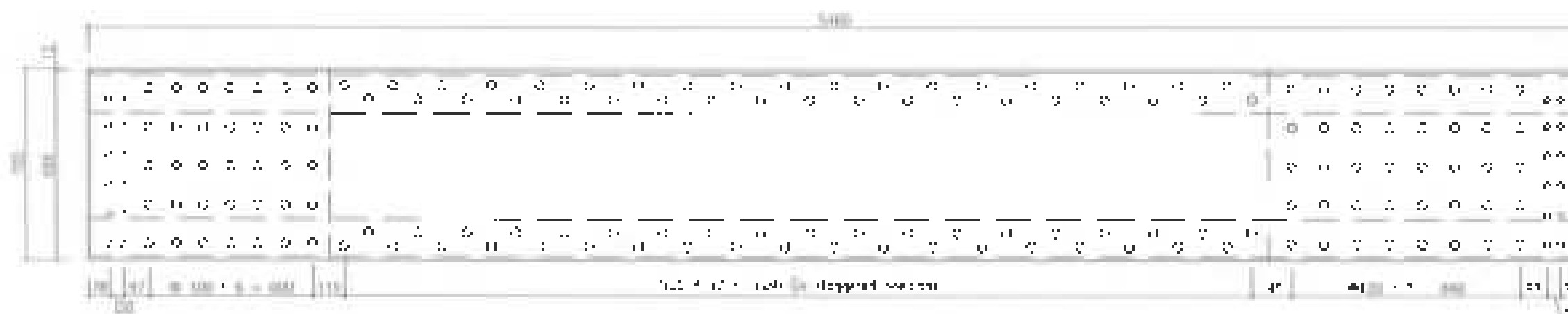


Leading Plate of - 10% X 10
Plate 1500X600 mm
Required - 12 NOS

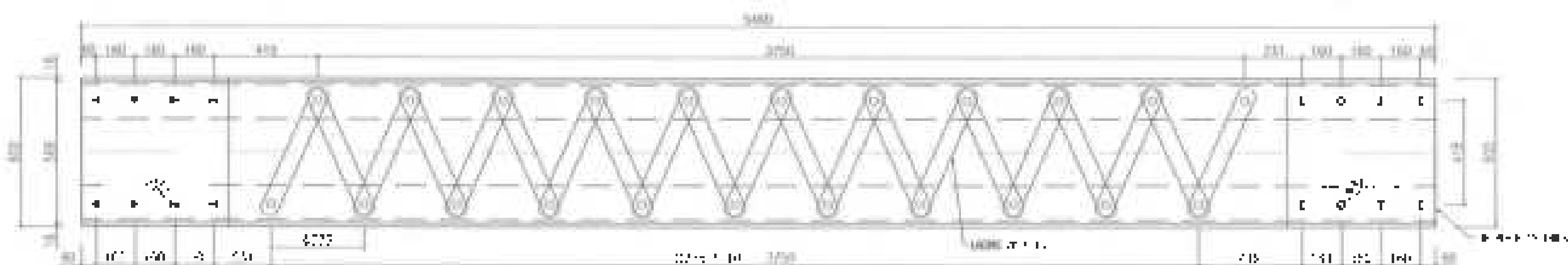
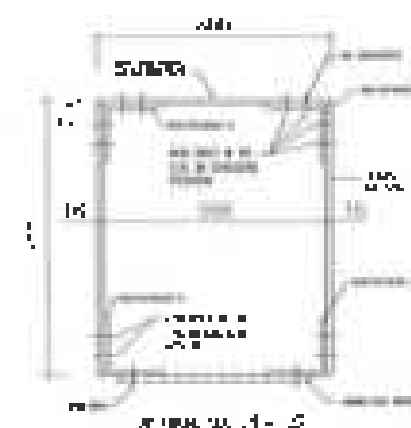
GOVERNMENT OF NAGALAND MINISTRY OF HIGHWAY TRANSPORTATION DEPARTMENT OF ROADS ROADS AND BRIDGES Kohima Kohima Kohima	Consultant Korea Engineering Consultants Corp.	Contractor CICE-KALIKA JV KALYAN, KATHMANDU	Contracting Organization CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA :	Project Name KOSHI BRIDGE AND APPROACHES ; CHATARA :	Scale 1:100	Author K. K. K.	Scale 1:100	Scale 1:100	Scale 1:100
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TOP VIEW OF D.D

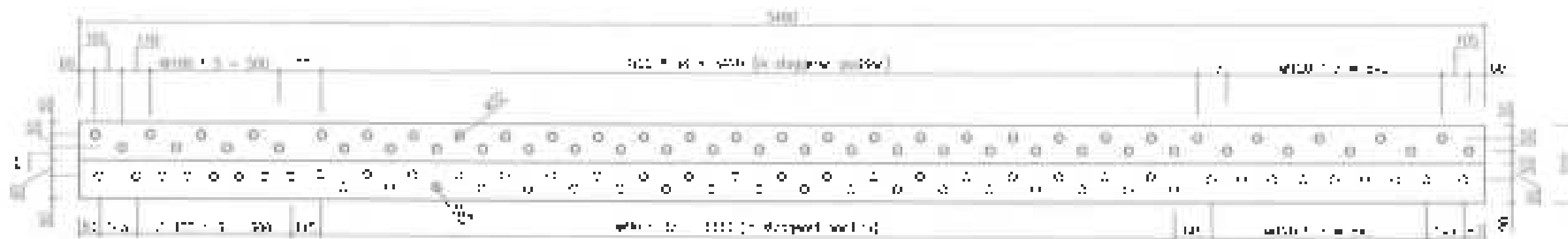


TOP CHORD PROVIDED / 4 VCS

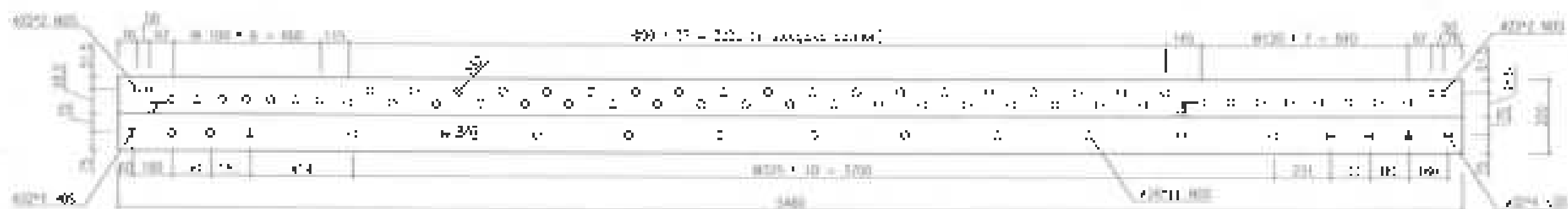


BOTTOM VIEW OF TCC

GOVERNMENT OF KERALA DEPARTMENT OF ROADS CONSTRUCTION OF KADAPPAL ROAD A. ROAD FROM KADAPPAL TO KADAPPAL	DESIGNER Korea Engineering Consultants Corp.	CONTRACTOR CTCE-KALIKAT KADAPPAL, KADAPPAL	CONTRACT NO. 66/1998/1000 CONSTRUCTION OF KADAPPAL ROAD AND APPROACHES (KADAPPAL)	DESIGNER'S AS PER DRAWING TOP CHORD - TCC	DATE: 2001/10/10 BY: [Signature] CHECKED: [Signature]	SCALE: 1/100 SHEET: 1/1	DATE: 2001/10/10 BY: [Signature] CHECKED: [Signature] APPROVED: [Signature]
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BUILT UP ANGLE OF TOP CHORD = TCS-2
 (BUILT UP ANGLE = A = 0.1111 x 100)
 ANGLE 150°/12 mm = 5450 mm Long
 PROVIDED = 2 NOS

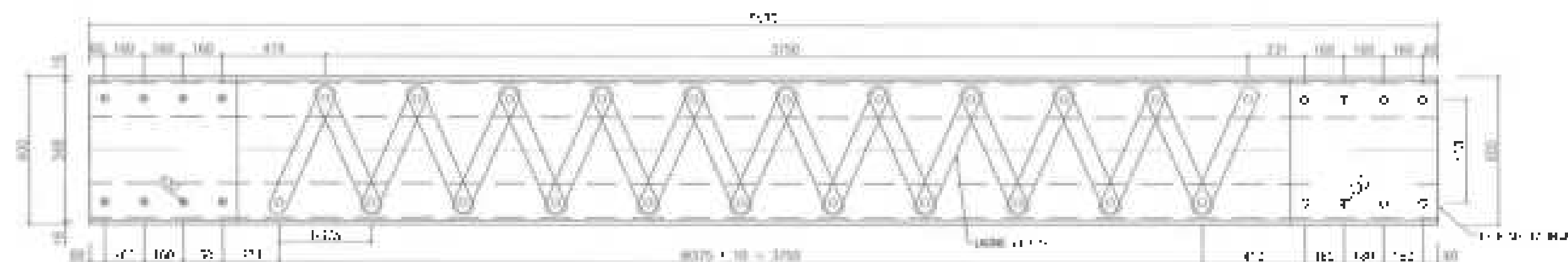
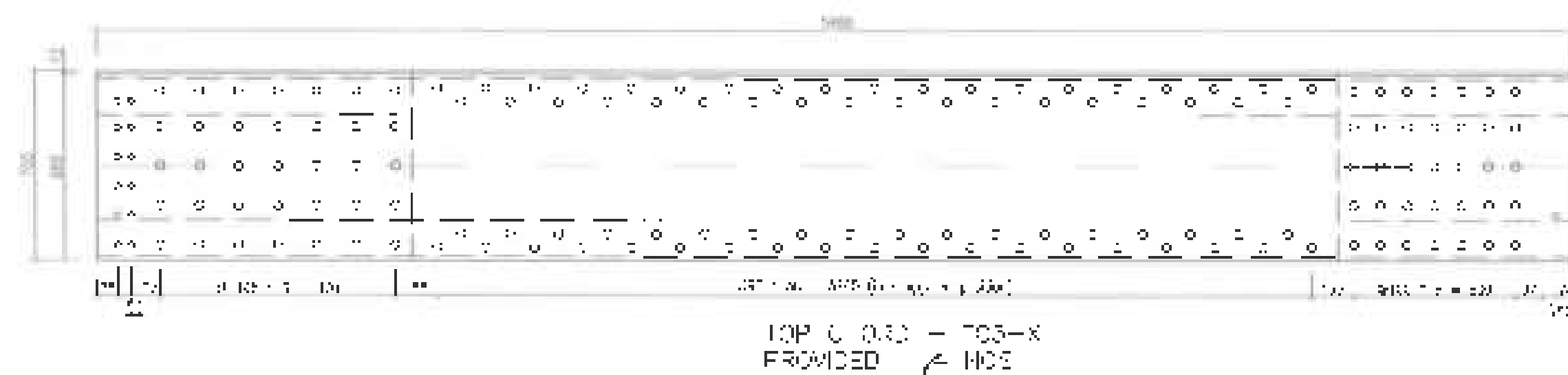
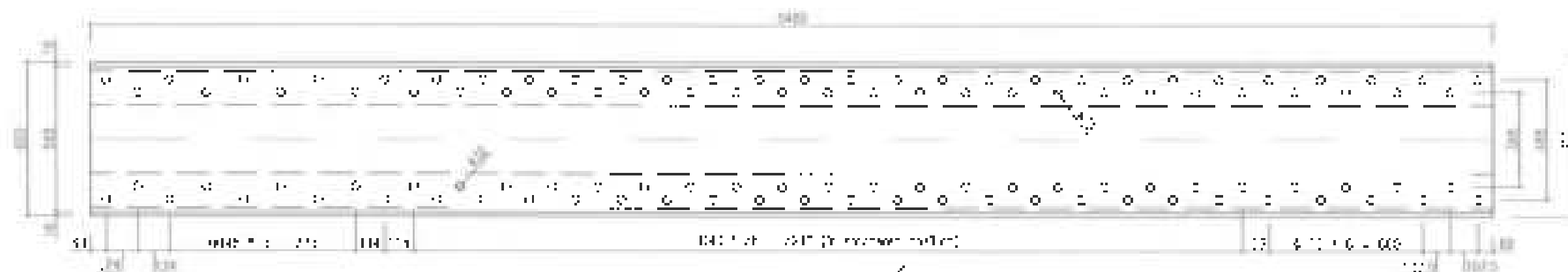


BUILT UP ANGLE OF TOP CHORD = TCS-2
 (BUILT UP ANGLE = C = 0.1111 x 100)
 ANGLE 150°/12 mm = 5450 mm Long
 PROVIDED = 2 NOS



BUILT UP ANGLE OF TOP CHORD = TCS-2
 (BUILT UP ANGLE = C = 0.1111 x 100)
 ANGLE 150°/12 mm = 5450 mm Long
 PROVIDED = 2 NOS

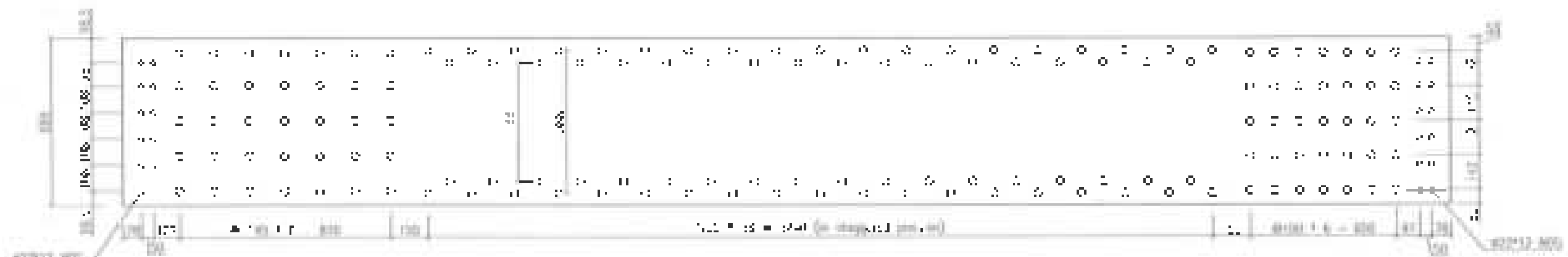
CONTRACTOR'S NAME KOSHI ENGINEERING CONSULTANTS COMPANY NAME KOSHI ENGINEERING CONSULTANTS ADDRESS KOSHI ENGINEERING CONSULTANTS	CONTRACTOR Koshi Engineering Consultants Corp.	PROJECT NAME C.T.C.R. KALIKA JV BALIMATAR, KATHMANDU	CONTRACT NO. / DESCRIPTION CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	DRAWING NO. AS BUILT DRAWING TOP CHORD - TCS	DATE 2073/01/01	DRAWN BY 2073/01/01	CHECKED BY 2073/01/01	SCALE 1:50	SHEET NO. 7
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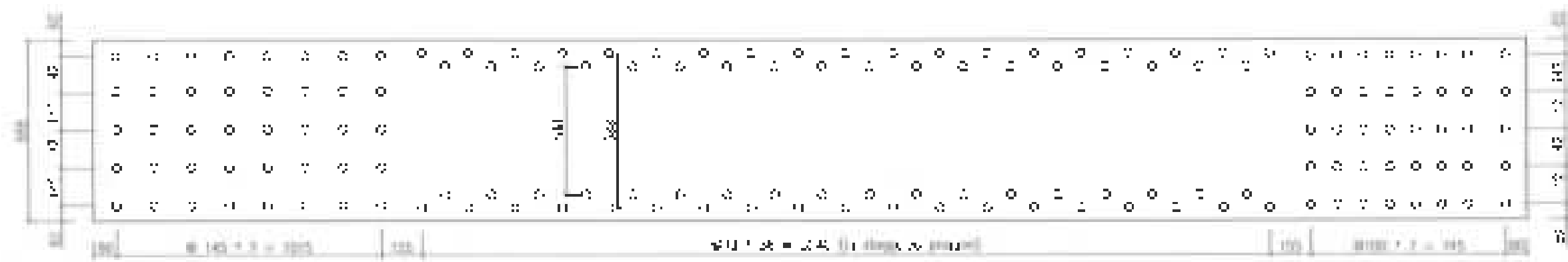
DEPARTMENT OF HIGHWAYS OFFICE OF THE CHIEF ENGINEER DEPARTMENT OF ROADS KATHMANDU, NEPAL PROJECT NO. 101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084



TOP CHORD PLATE OF OPEN CHORD
 PLATE 12 * 620 * 10 * 80 MM
 PROVISION = 4 NOS



TOP CHORD INNER WEB PLATE
 PLATE 6 * 552 * 10 * 80 MM
 PROVISION = 4 NOS



WEB PLATE OF OPEN CHORD
 PLATE 12 * 552 * 10 * 80 MM
 PROVISION = 4 NOS

CONTRACTOR DEPARTMENT OF ROADS ROAD CONSTRUCTION ROAD NO. 100, KATHMANDU	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KALIKATTI KATHMANDU, KATHMANDU	CONTRACTED TO CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHARTER)	DRAWING NO. AS PER DRAWING T-100-100-100	SCALE 1:100 1:200 1:500	DATE 2070-01-01	PROJECT ROAD NO. 100	SHEET 100-100-100 100-100-100 100-100-100
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BUILT UP ANGLE OF TOP CHORD = TC3-X-L
(BUILT UP ANGLE = A = 150°-150°-150°)
ANGLE 150°-150°-150° min. 2' x 80 mm Long
PROVIDED = 2 NOS



BUILT UP ANGLE OF TOP CHORD = TC3-X-R
(BUILT UP ANGLE = A = 150°-150°-150°)
ANGLE 150°-150°-150° min. 2' x 80 mm Long
PROVIDED = 2 NOS



BUILT UP ANGLE OF TOP CHORD = TC3-L-X
(BUILT UP ANGLE = A = 150°-150°-150°)
ANGLE 150°-150°-150° min. 2' x 80 mm Long
PROVIDED = 2 NOS

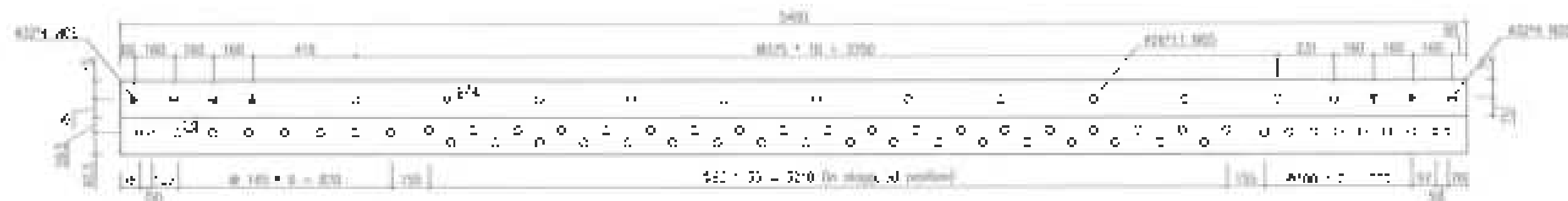
CONTRACT NO. 100/2019 DEPARTMENT OF ROADS ROAD MAINTENANCE AND REPAIRS PROJECT ADDITIONAL WORKS Bridge Maintenance and Repair, Bangalore	CONSULTANT Kure Engineering Consultant Corp.	CONTRACT NO. CTCE KALIKAVI BALURUWAH, KATHAMANGI	CONTRACT NO. 100/2019 CONSTRUCTION OF KOS II BRIDGE AND APPROACHES (CHATARA)	CONTRACT NO. AS BUILT DRAWING TOP CHORD TOX	SCALE 1:400 1:400-400	DATE 10/10/2020 10/10/2020	SCALE SCALE = 1:400	DATE 10/10/2020 10/10/2020
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(BUILT UP ANGLE OF TOP CHORD) - T03-B-X
 (BUILT UP ANGLE - A - OUTER SIDE)
 ANGLE: $150^{\circ} \times 150^{\circ} \times 2 \text{ mm} = 3480 \text{ mm LONG}$
 PROVIDED - (2 NOS)

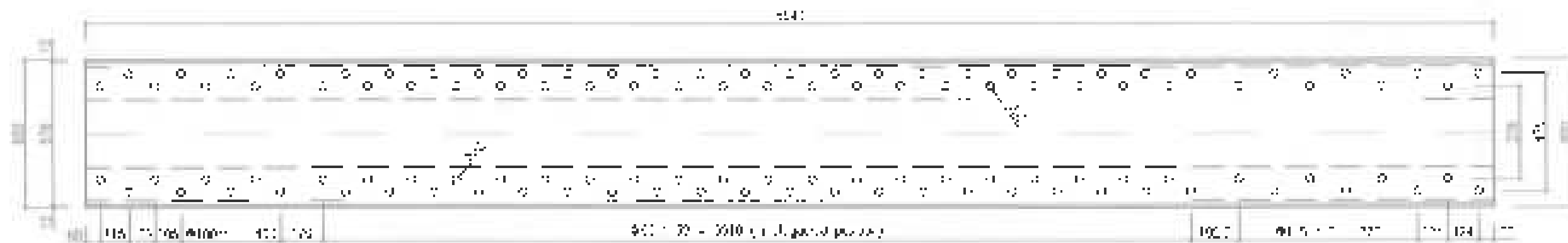


(BUILT UP ANGLE OF TOP CHORD) - T03-B-X
 (BUILT UP ANGLE - D - INNER SIDE)
 ANGLE: $150^{\circ} \times 150^{\circ} \times 2 \text{ mm} = 3480 \text{ mm LONG}$
 PROVIDED - (2 NOS)



(BUILT UP ANGLE OF TOP CHORD) - T03-B-X
 (BUILT UP ANGLE - D - INNER SIDE)
 ANGLE: $150^{\circ} \times 150^{\circ} \times 2 \text{ mm} = 3480 \text{ mm LONG}$
 PROVIDED - (2 NOS)

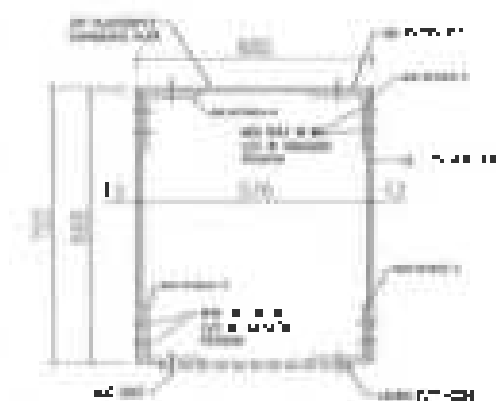
PROJECT NAME: DEPARTMENT OF ROADS ROAD DEVELOPMENT SECTION PROJECT ROAD No. 209-B/201 Project Office: (209, Chitara)	CONSULTANT: Korea Engineering Consultant Corp.	CONTRACTOR: CTCE-KALIKA IV BALLYALAI, KATHMANDU	CONTRACT NO. ETR/2015/401 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	DRAWING NO.: AS BUILT DRAWING TOP CHORD T03	DESIGNED BY: CHECKED BY: APPROVED BY:	DATE: 2074	SCALE: 1:100	SHEET NO.: 1 OF 1
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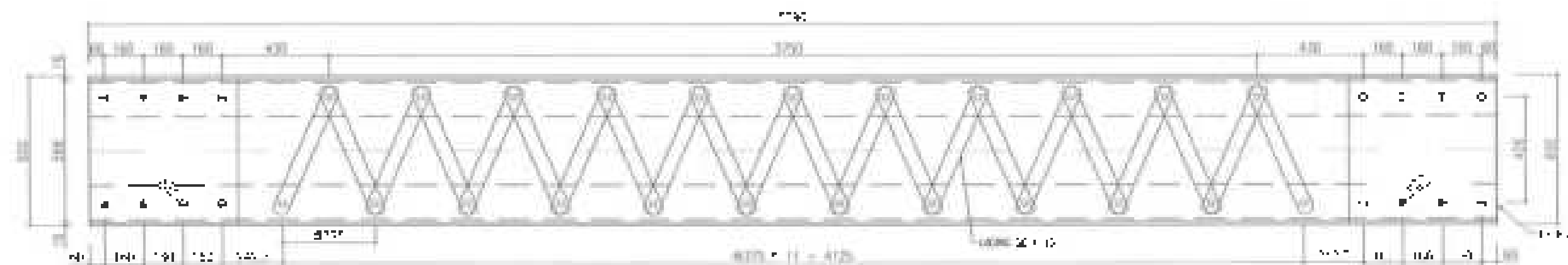
TOP VIEW OF TC4



TOP C-CROSS SECTION
PROVIDED - 6 NOS

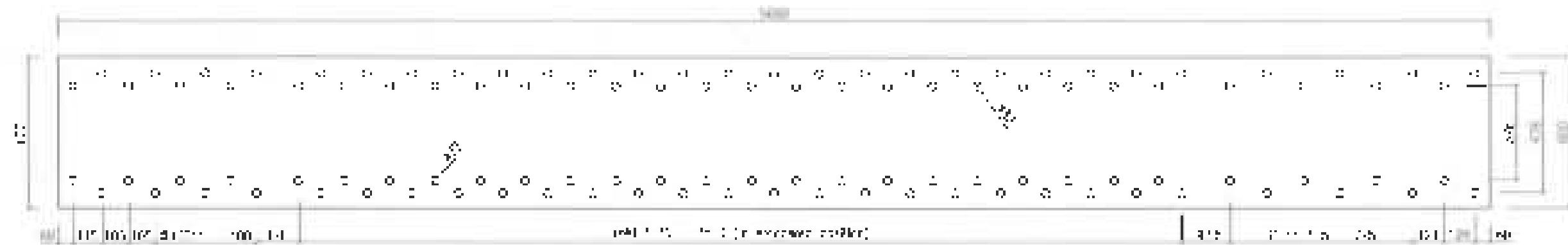


CROSS SECTION

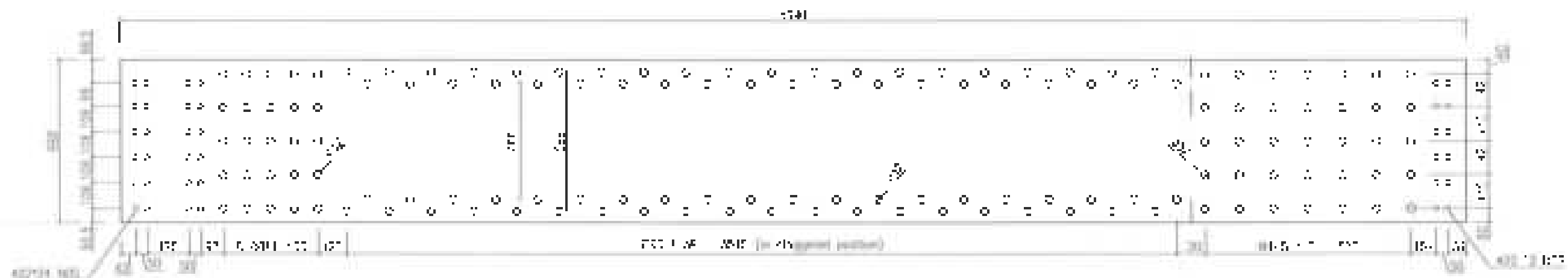


BOTTOM VIEW OF TC4

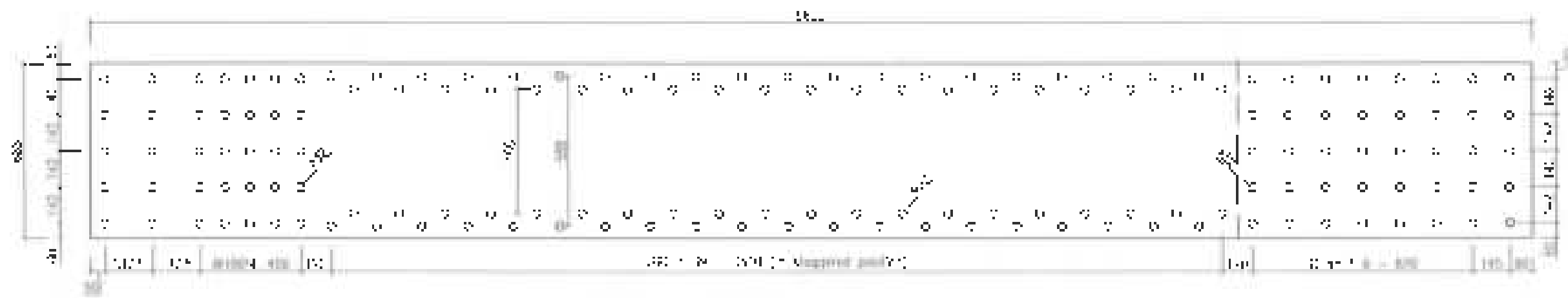
PROJECT TITLE DEPARTMENT OF ROADS NAME OF PROJECT/SECTION/STREET ADDRESS/POSTAL CODE Project Director, C/No 1002, Bala Watar	CONSULTANT Kotes Engineering Consultant Corp.	CONTRACTOR CTCB-KALIKA IV BALAWATAR, KATHMANDU	DRAWING NO. & DESCRIPTION CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	DRAWING NO. ASPI/T/2000/01 TOP (CHART - TC4)	PREPARED BY DRAWN BY CHECKED BY	PROJECT NO. DATE	SHEET NO. OF	SCALE SCALE = 1:100	APPROVED BY PROJECT MANAGER SIGNATURE DATE
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TOP CHORD PLATE OF CHORD - 04
 PLATE 12'00x1000x100 MM
 PROJ NO - 4 Nos



A-F - A1- OF CHORD - 04
 TOP CHORD INNER WEB PLATE
 PLATE 12'00x1000x100 MM - 4 Nos

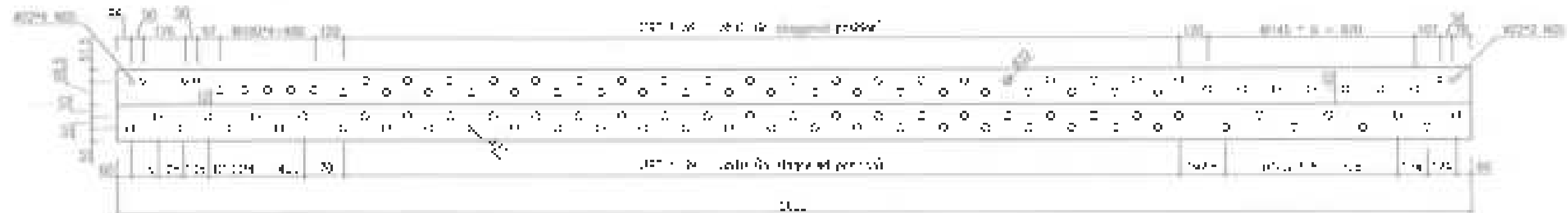


WEB PLATE OF TOP CHORD - 04
 TOP CHORD INNER WEB PLATE
 PLATE 12'00x1000x100 MM - 4 Nos

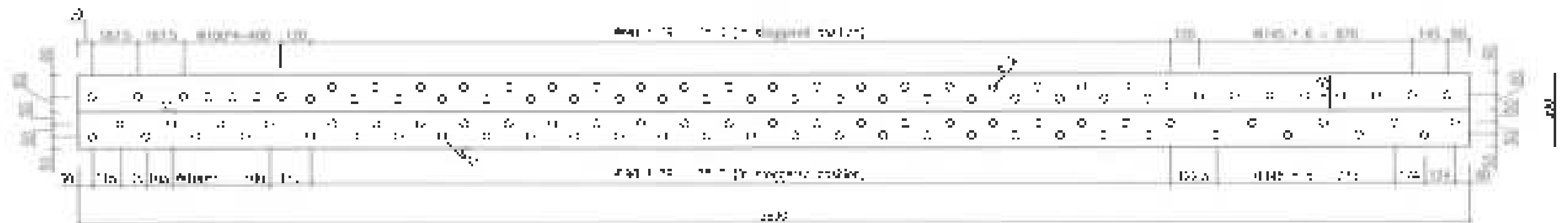
ॐ DEPARTMENT OF PWD ROAD CONSTRUCTION SECTION ADD: C-1, P.O. BOX-107521 Kathmandu, Nepal	CONSULTANT Korea Engineering Consultants Corp.	PROJECT NO. CTEC-KATH/14 BALUBATAR, KATHMANDU	CONTRACT NO. ETC/04/01 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	DRAWING NO. AS PER DRAWING TOP CHORD - 04	SCALE 1:100 1:100	DRAWN BY 10/10/2019 10/10/2019	CHECKED BY 10/10/2019 10/10/2019	PROJECT NO. CTEC-KATH/14	DRAWN BY 10/10/2019 10/10/2019
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BUILT UP ANGLE OF TOP CHORD : 150 x 130 x 12 mm
(BUILT UP ANGLE - A - INNER SIDE)
ANGLE 150x130x12 mm = 5590 mm Long
PROVIDED - 2 NOS



BUILT UP ANGLE OF BOTTOM CHORD : 150 x 130 x 12 mm
(BUILT UP ANGLE - B - INNER SIDE)
ANGLE 150x130x12 mm = 5590 mm Long
PROVIDED - 2 NOS



BUILT UP ANGLE OF TOP CHORD : 150 x 130 x 12 mm
(BUILT UP ANGLE - A - INNER SIDE)
ANGLE 150x130x12 mm = 5590 mm Long
PROVIDED - 2 NOS

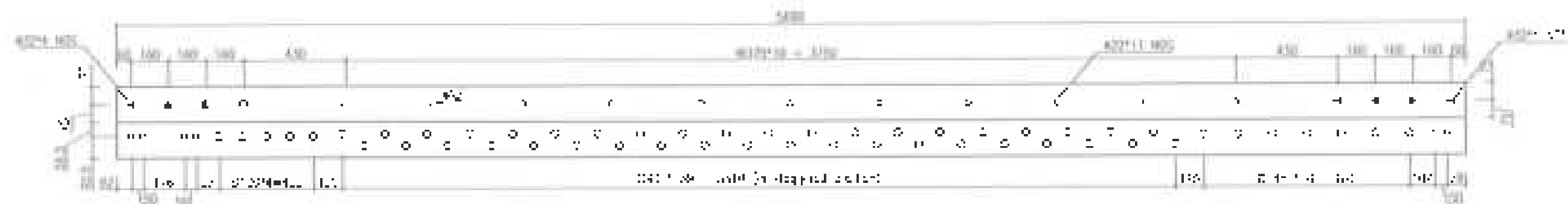
PROJECT NO. 100/2019 DEPARTMENT OF ROADS KARNATAKA BANGALORE	CONSULTANT Karna Engineering Consultant Corp.	CONTRACTOR CCE-KALKAJI BANGALORE	CONTRACT NO. - 100/2019 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CUTTURA)	DRAWING NO. 100/2019-104	DATE 10/10/2019	SCALE 1:20	SHEET NO. 100/2019-104
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BUILT UP ANGLE OF TOP CHORD = 704-2
(BUILT UP ANGLE = A - OUTER SIDE)
ANGLE 100mm x 12mm x 5000mm Long
PROVIDED = 2 NOS



BUILT UP ANGLE OF TOP CHORD = 704-1
(BUILT UP ANGLE = C - INNER SIDE)
ANGLE 100mm x 12mm x 5000mm Long
PROVIDED = 2 NOS

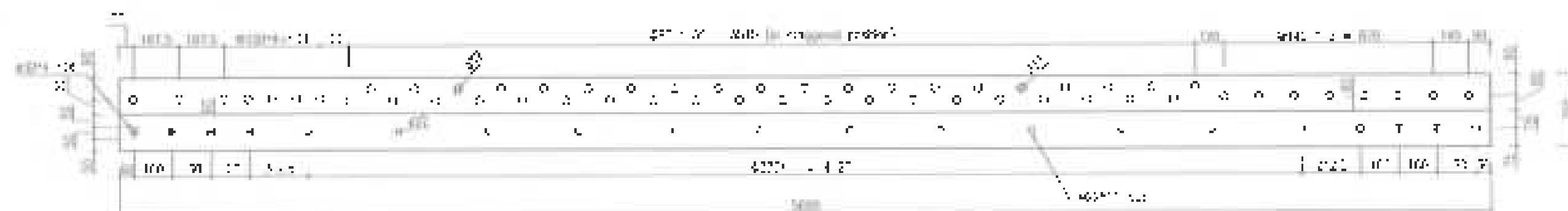


BUILT UP ANGLE OF TOP CHORD = 704-P
(BUILT UP ANGLE = D - INNER SIDE)
ANGLE 100mm x 12mm x 5000mm Long
PROVIDED = 2 NOS

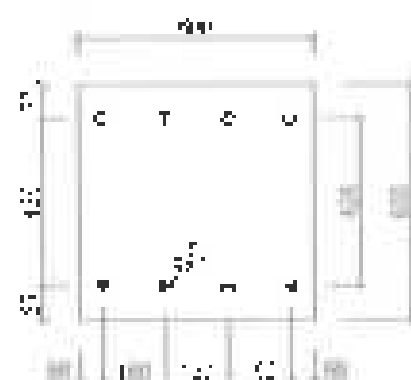
GOVERNMENT OF NEPAL MINISTRY OF PHYSICAL INFRASTRUCTURE DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION KATHMANDU TEL: 977-01-42222222	CONSULTANT Korea Engineering Consultant Corp.	DESIGNER CHIEF-KALIKRA JV KATHMANDU, KATHMANDU	CONTRACTOR (PROVIDER) CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES : CHATARA :	DESIGNER AS BUILT DRAWING TYPE : 100mm x 12mm	DATE : 2070 SCALE : 1:10	DATE : 2070 SCALE : 1:10	DATE : 2070 SCALE : 1:10	DATE : 2070 SCALE : 1:10	DATE : 2070 SCALE : 1:10
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BUILD UP ANGLE OF TOP CHORD = TC4-L
 (BUILT UP ANGLE = 0 = OTHER SIDE)
 ANGLE 150*150 mm² T.M * 5690 mm LONG
 PROVIDED = 2 NOS



BUILD UP ANGLE OF TOP CHORD = TC4-R
 (BUILT UP ANGLE = 0 = OTHER SIDE)
 ANGLE 150*150 mm² T.M * 5690 mm LONG
 PROVIDED = 2 NOS

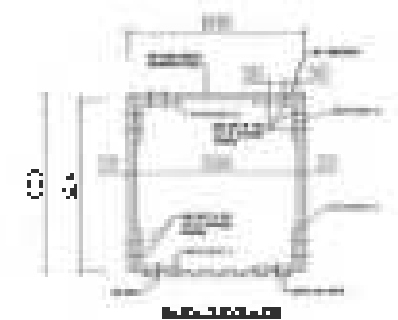
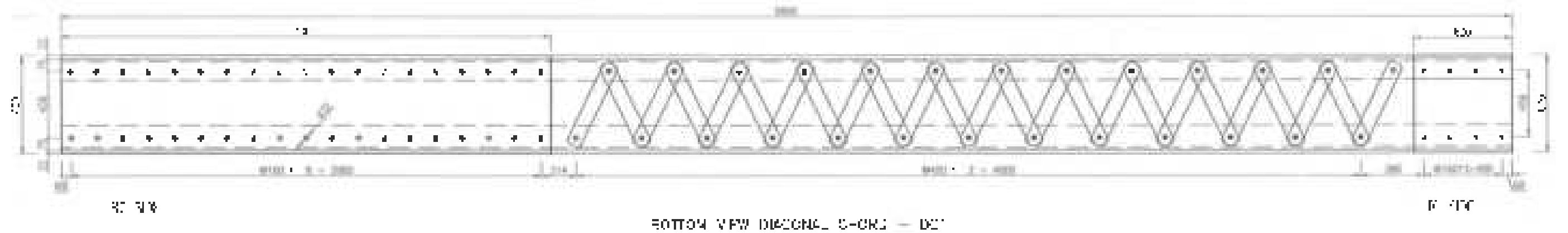
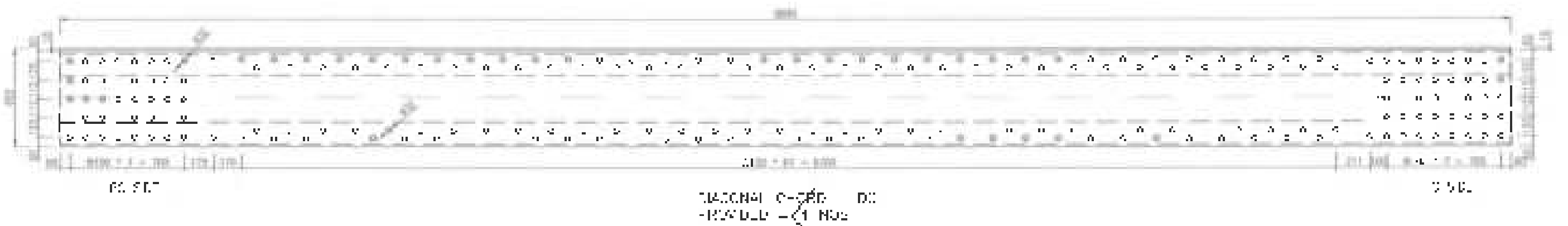
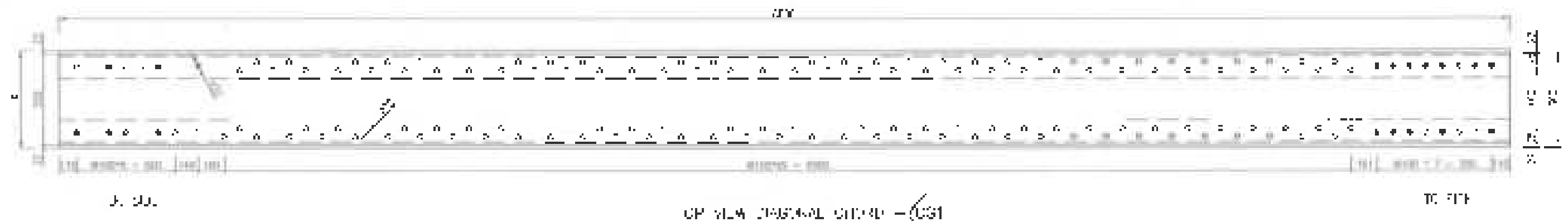


Tie Plate of = TC4
 Plate 12*80*1500 mm
 Provided = 5 Nos



Lacing Plate of = TC4
 Plate 12*80*1500 mm
 Provided = 5 Nos

GOVERNMENT OF NEPAL MINISTRY OF FEDERAL GOVERNMENT DEPARTMENT OF ROADS ROAD CONSTRUCTION PROJECT 400 Km. A/C 100-1000 Nepal Highway 100/1000, Kathmandu	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CHICK-KALIKA JV BAKHTRAP, KATHMANDU	CONTRACTING REFERENCE CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES : CHATARA	DRAWING NO. AS BUILT DRAWING TOP CHORD TC4	DATE 2073/05/20	SCALE 1:10	SHEET NO. 504/10 = 120	TOTAL SHEETS 504/10 = 120
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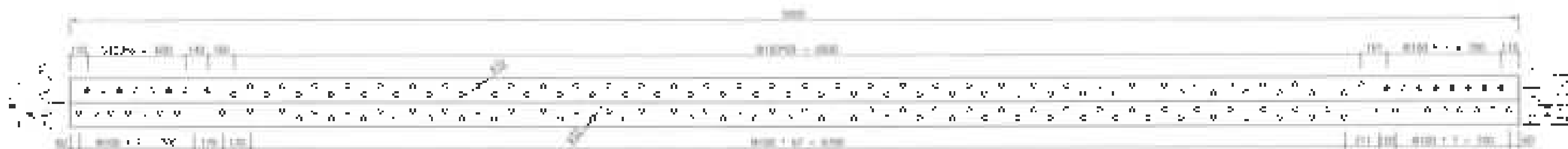
DEPARTMENT OF ROADS MINISTRY OF TRANSPORTATION DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION 100, Changu, Kathmandu Nepal	CONSULTANT Korea Engineering Consultant Corp.	PROJECT CTCL-KALKA IV RAILWAY LINE, KATHMANDU	CONTRACT NO. ETR/2014/01 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES : CHATARA :	DRAWING NO. 28-BUILDING-10 BRIDGE-CHARTER-10	DATE 2014-01-10 2014-01-10 2014-01-10	CHECKED [Signature] [Signature]	DESIGNED [Signature]	SCALE 1:25	DATE 2014-01-10 2014-01-10 2014-01-10
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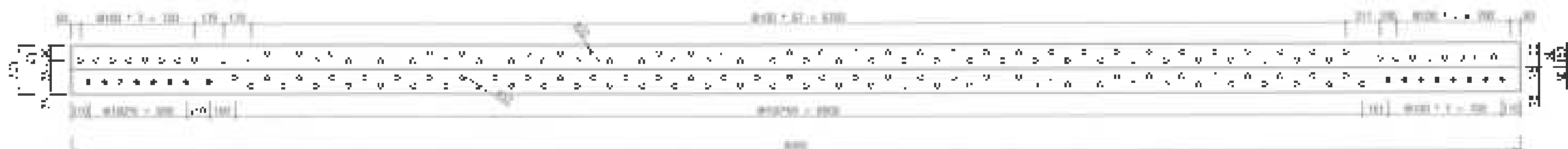
TOP COVER PLATE OF DIAGONAL CHORD - ECI
(1000 mm x 100 mm x 10 mm)
PROVIDED 100



VERTICAL PLATE OF DIAGONAL CHORD - ECI
PLATE 1000x100 mm x 10 mm

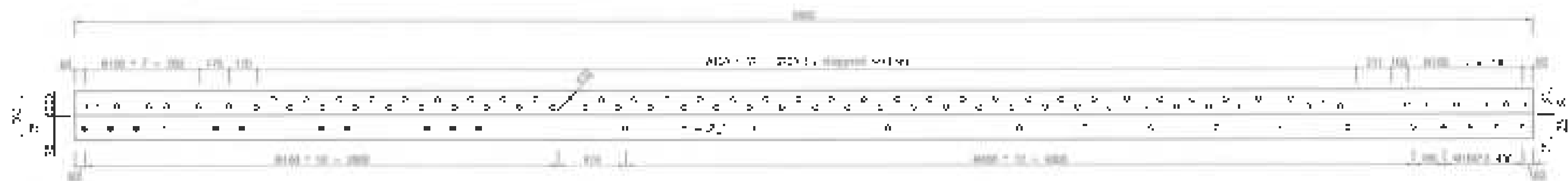


BUILT-UP ANGLE OF DIAGONAL CHORD - ECI
(1000 mm x 100 mm x 10 mm)
ANGLE 100x100 mm x 10 mm Long
PROVIDED 100

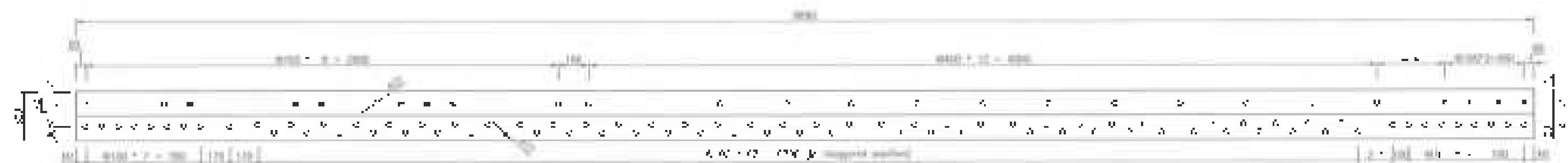


BUILT-UP ANGLE OF DIAGONAL CHORD - ECI
(1000 mm x 100 mm x 10 mm)
ANGLE 100x100 mm x 10 mm Long
PROVIDED 100

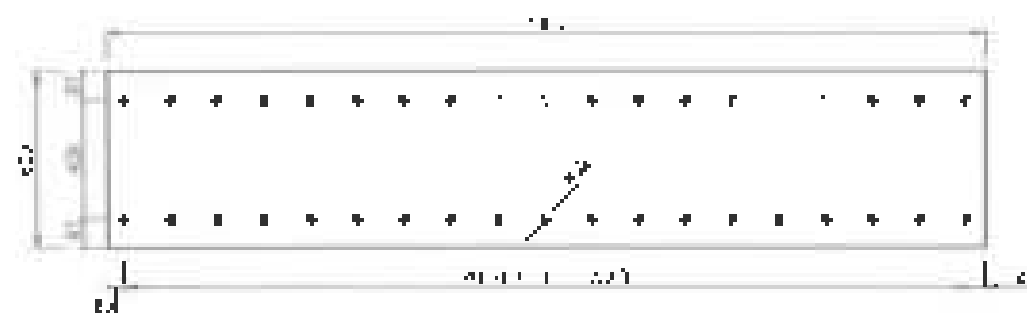
PROJECT INFORMATION DEPARTMENT OF ROADS ROAD NO. 1000 ROAD NO. 1000 ROAD NO. 1000	CONSULTANT Kure Engineering Consultant Corp.	PROJECT NO. CTCE-KALIKA JV BALUBATAR, KATHMANDU	CONTRACT NO. TERC/000001 CONSTRUCTION OF KOSI BRIDGE AND APPROACHES (CHARTRA)	DRAWING NO. BRIDGE/CHORD-01	DATE 2073-01-01	QUANTITY 1000	UNIT m ²	SECTION SECTION 1000	AREA 1000
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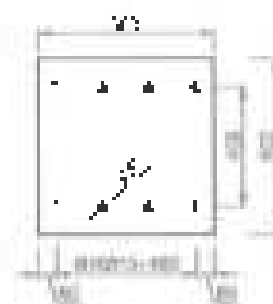
REINFORCEMENT OF BRIDGE DECK - CC
 (SCALE: 1:100)
 AREA: 120.00 m² = 120.00 m² (10.0m x 12.0m)
 PROVIDED: 120.00 m²



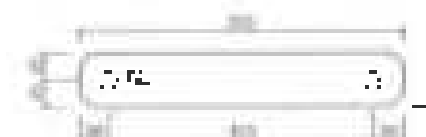
REINFORCEMENT OF BRIDGE DECK - CC
 (SCALE: 1:100)
 AREA: 120.00 m² = 120.00 m² (10.0m x 12.0m)
 PROVIDED: 120.00 m²



REINFORCEMENT OF BRIDGE DECK - CC
 (SCALE: 1:100)
 AREA: 120.00 m² = 120.00 m² (10.0m x 12.0m)
 PROVIDED: 120.00 m²

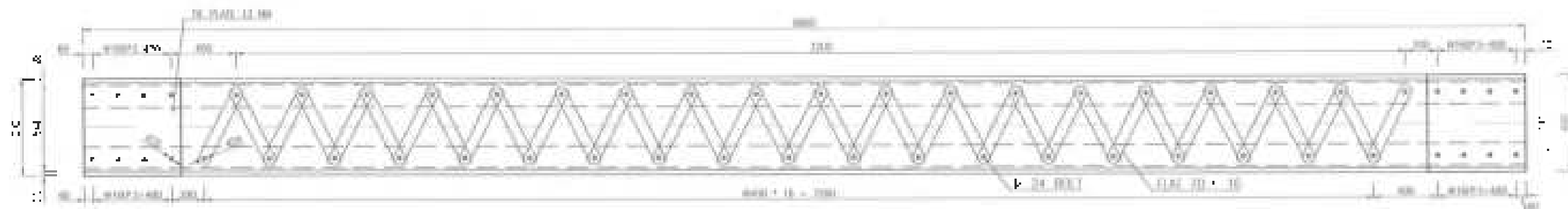


REINFORCEMENT OF BRIDGE DECK - CC
 (SCALE: 1:100)
 AREA: 120.00 m² = 120.00 m² (10.0m x 12.0m)
 PROVIDED: 120.00 m²

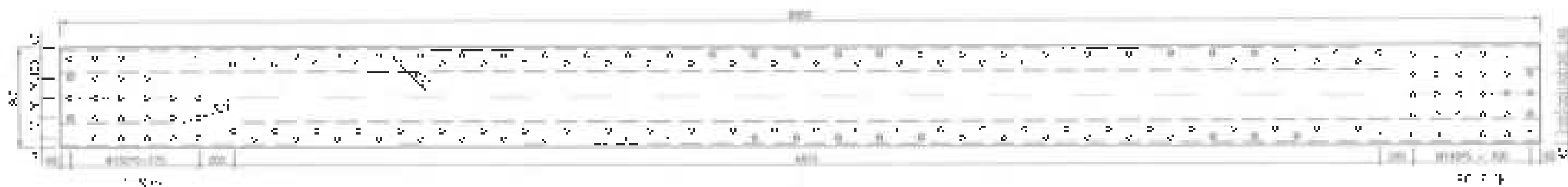


REINFORCEMENT OF BRIDGE DECK - CC
 (SCALE: 1:100)
 AREA: 120.00 m² = 120.00 m² (10.0m x 12.0m)
 PROVIDED: 120.00 m²

PROJECT NAME: KOSHI DEPARTMENT OF ROADS ROAD CONSTRUCTION PROJECT ADD: Kathmandu, Nepal Project No: KOSHI-2019	CONSULTANT Korea Engineering Consultant Corp.	CONTRACT NO. 10/1 CTCE-KALKA IV BILIMATIA, KATHMANDU	CONTRACT VALUE: 100,000,000 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	DESIGN NO. AS 9/10/19/19 BRIDGE DECK - CC	DATE: 10/10/19 DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	SCALE: 1:25	PROJECT NO. KOSHI-2019
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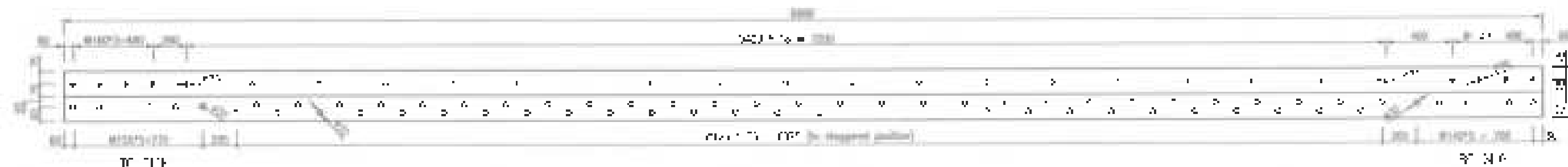
ELEVATION OF DIA. CROSS SECTION



FRONT VIEW OF DIA. CROSS SECTION



SIDE VIEW OF DIA. CROSS SECTION

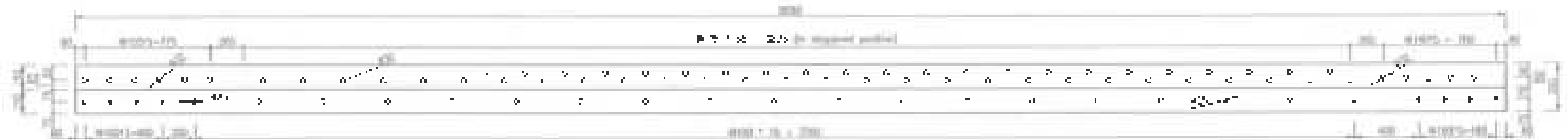


TOP VIEW OF DIA. CROSS SECTION

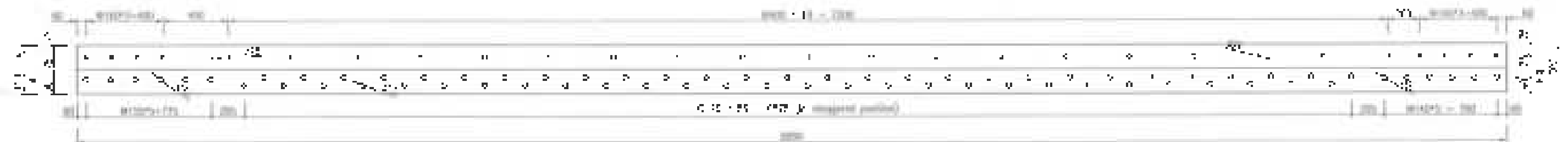
MINISTRY OF TRANSPORT DEPARTMENT OF ROADS KATHMANDU	DESIGNER Korea Engineering Consultant Corp.	OWNER CTCE-KADKA JV KATHMANDU	PROJECT CONSTRUCTION OF KOSH BRIDGE AND APPROACHES (CHITARA)	DESIGNER KATHMANDU	DATE 2073-11-10	SCALE 1:100	NO. 10	REVISION
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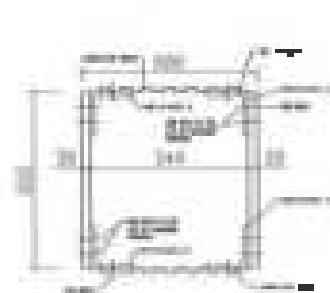
BUILT UP PLATE OF DIAGONAL CHORD = 100
 (RUB) 100 x 100 = 100
 PLATE 100 x 100 mm x 1000 mm long
 PROVIDED = 100



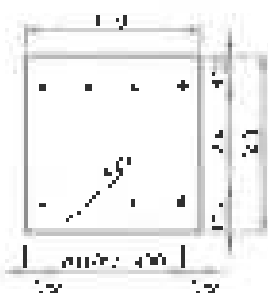
BUILT UP PLATE OF DIAGONAL CHORD = 100
 (RUB) 100 x 100 = 100
 PLATE 100 x 100 mm x 1000 mm long
 PROVIDED = 100



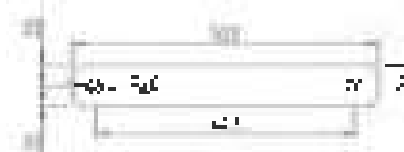
BUILT UP PLATE OF DIAGONAL CHORD = 100
 (RUB) 100 x 100 = 100
 PLATE 100 x 100 mm x 1000 mm long
 PROVIDED = 100



CROSS SECTION - 100

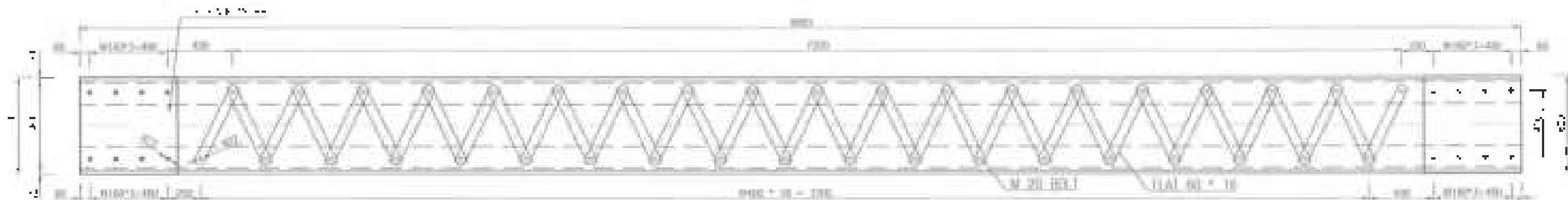


CROSS SECTION - 100
 PLATE 100 x 100 mm
 PROVIDED = 100

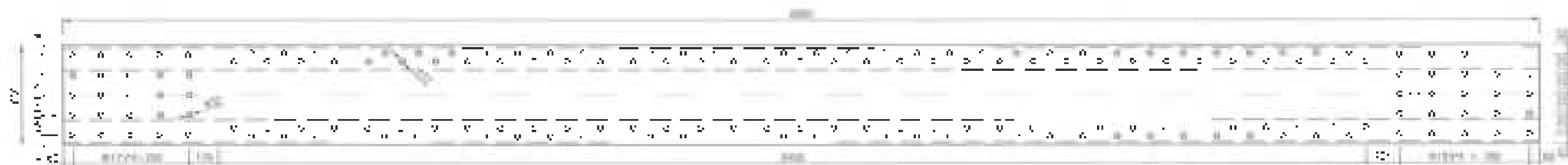


CROSS SECTION - 100
 PLATE 100 x 100 mm
 PROVIDED = 100

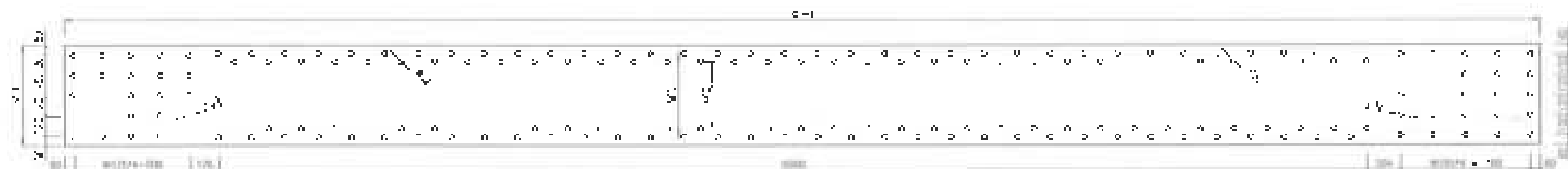
DEPARTMENT OF ROADS DEPARTMENT OF ROADS ROAD DIVISION ROAD DIVISION ROAD DIVISION	Korea Engineering Consultant Corp.	CTCE-KALIKA JV BALEWATARI, KATUNING	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	AS A FURTHERING DIAGRAM (CHALARA)	PROJECT NO. - 100000 - 100000	100000 100000	100000 100000	SCALE = 1:25 100000	100000 100000 100000
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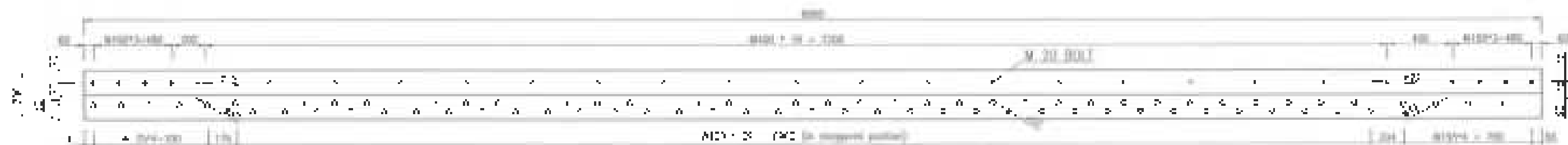
ELEVATION VIEW OF MAIN TRUSS STRUCTURE - (1/20)



FRONT VIEW OF BOTTOM CHORD - (1/20)

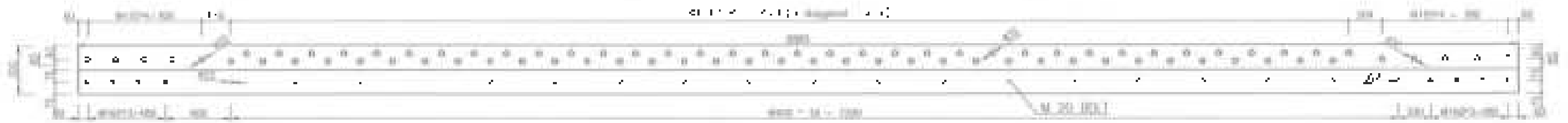


SIDE VIEW OF BOTTOM CHORD - (1/20)

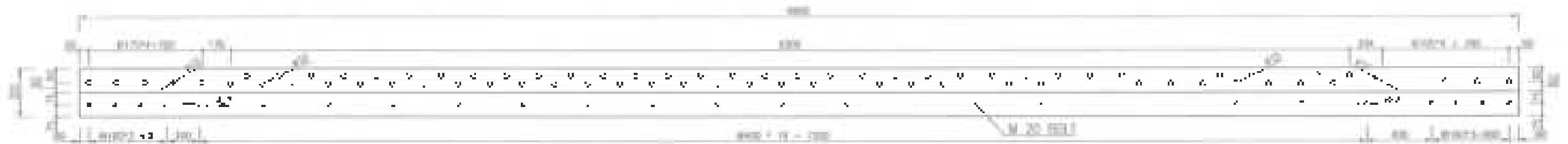


ELEVATION VIEW OF MAIN TRUSS STRUCTURE - (1/20)

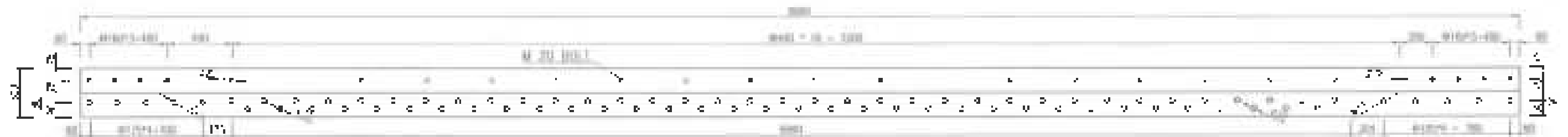
PROJECT NO. 10/2019 DEPARTMENT OF ROADS CONSTRUCTION DIVISION KOSF. BRIDGE AND APPROACHES (CHS. AREA)	CONSULTANT Korea Engineering Consultants Corp.	DESIGNER CTCE-KALIKAJY BALI WATARIKA THIRANIRI	CONTRACT NO. 10/2019 CONSTRUCTION OF KOSF. BRIDGE AND APPROACHES (CHS. AREA)	REVISION NO. REVISION DESCRIPTION	DATE 10/2019	BY [Signature]	CHECKED [Signature]	SCALE 1:100	DATE 10/2019 PAGE NO. 1/1 TOTAL NO. OF PAGES 1/1
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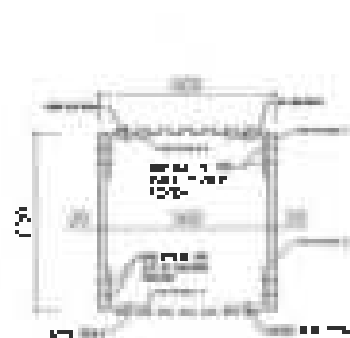
BUILT UP ANGLE OF DIAGONAL CHORD = 60°
 BUILT UP ANGLE = 0°
 ANGLE SUPPLYING = 150mm x 150mm x 150mm
 PROVIDED = 4 NOS



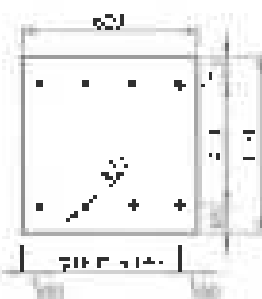
BUILT UP ANGLE OF DIAGONAL CHORD = 60°
 BUILT UP ANGLE = 0°
 ANGLE SUPPLYING = 150mm x 150mm x 150mm
 PROVIDED = 4 NOS



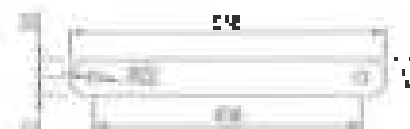
BUILT UP ANGLE OF DIAGONAL CHORD = 60°
 BUILT UP ANGLE = 0°
 ANGLE SUPPLYING = 150mm x 150mm x 150mm
 PROVIDED = 4 NOS



CROSS SECTION - 100

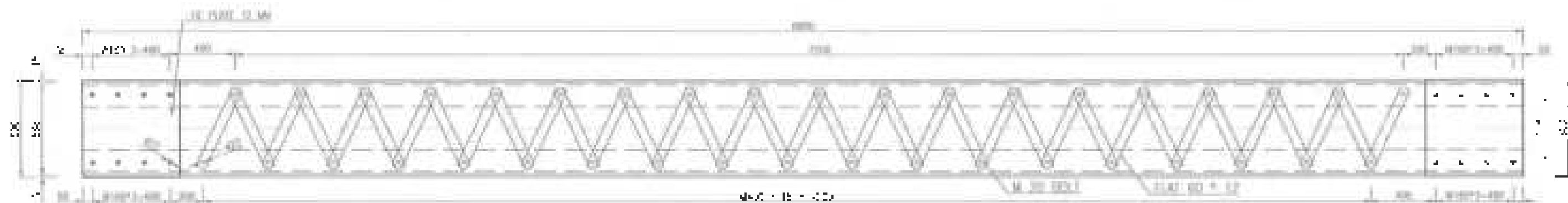


Top Plate of - 1003
 Plate 1200x600 mm
 Provided = 18 Nos



Long Plate of - 1003
 Plate 1200x600 mm
 Provided = 18 Nos

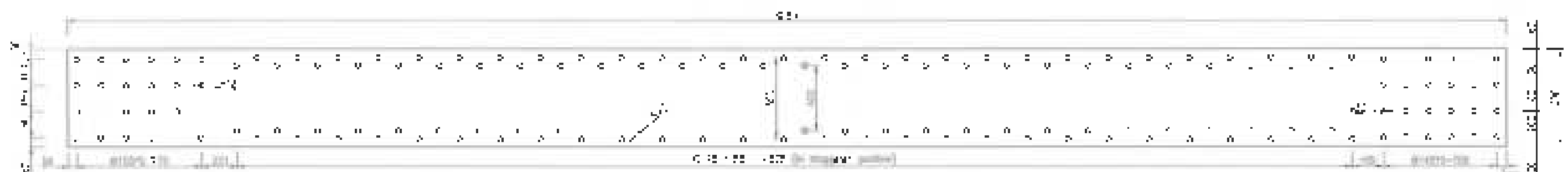
PROJECT LOCATION MINISTRY OF ROAD AND TRANSPORTATION DEPARTMENT OF HIGHWAYS ROAD CONSTRUCTION SECTION PROJECT ADDRESS: No. 100, P.O. Box 100, Seoul 150-800, Korea	CONSULTANT Korea Engineering Consultants Corp.	CONTRACT NO. CTCE-KALIKATV BILLYMATAH KATHIMANDU	CONTRACTING FIRM/COMPANY CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES : CHATARA :	DRAWING NO. 22 BUILT DRIVING DIAGONAL CHORD : 003	DESIGNED BY CHECKED BY APPROVED BY	DATE 10/10/2010	SCALE : 1/20	PROJECT NO. 100-100-100 100-100-100
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TOP & BOTTOM MEMBER OF DIAGONAL CHORD



FRONT VIEW OF DIAGONAL CHORD

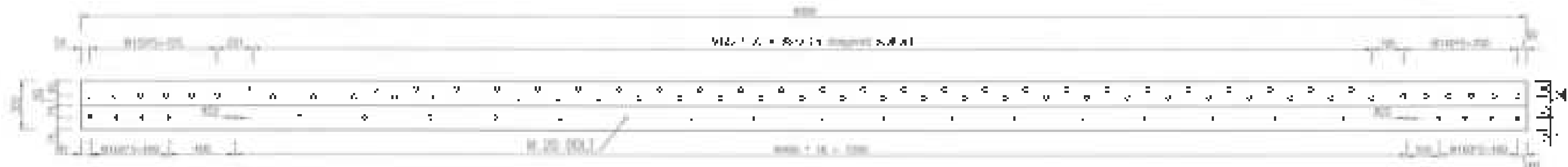


SIDE VIEW OF DIAGONAL CHORD

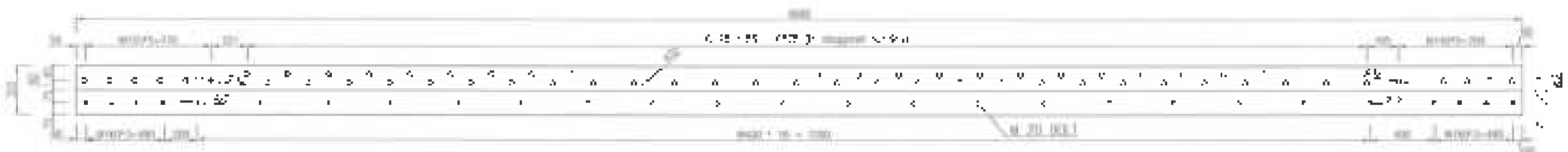


BUILT-UP ANGLE OF DIAGONAL CHORD

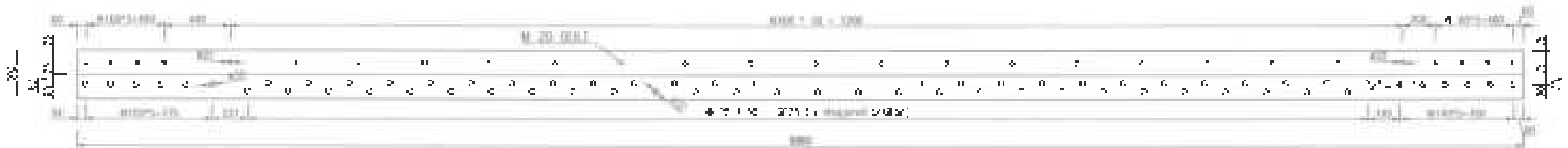
PROJECT TITLE DEPARTMENT OF ROAD ROAD CONSTRUCTION PROJECT ADDRESS: 100-000000 ROAD ENGINEERING PROJECT	CONSULTANT Korea Engineering Consulting Corp.	PROJECT NO. CTCE-KALIKA-TV KATHMANDU, NEPAL	CONTRACTED WORK CONTENT CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATARA)	DRAWING NO. ASSEMBLY DRAWING JUNCTION OF CHORD LCA	SCALE 1:100	DATE 2020-12-12	SHEET NO. 12
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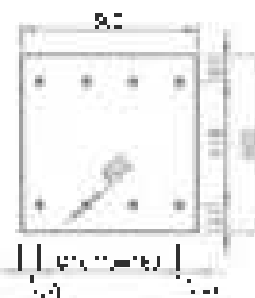
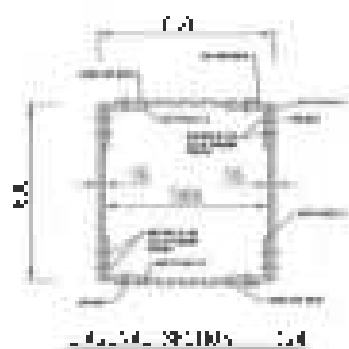
BUILT UP RAIL OF BRIDGE CHORD = 30"
 (BUILT UP RAIL = 8")
 RAIL 100x100x6 mm x 2500 mm Long
 RAIL 100x100x6 mm x 2500 mm Long



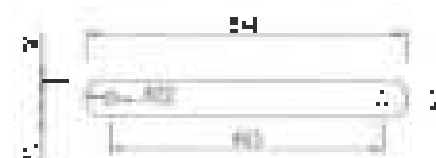
BUILT UP RAIL OF BRIDGE CHORD = 30"
 (BUILT UP RAIL = 8")
 RAIL 100x100x6 mm x 2500 mm Long
 RAIL 100x100x6 mm x 2500 mm Long



BUILT UP RAIL OF BRIDGE CHORD = 30"
 (BUILT UP RAIL = 8")
 RAIL 100x100x6 mm x 2500 mm Long
 RAIL 100x100x6 mm x 2500 mm Long



BUILT UP RAIL OF BRIDGE CHORD = 30"
 (BUILT UP RAIL = 8")
 RAIL 100x100x6 mm x 2500 mm Long
 RAIL 100x100x6 mm x 2500 mm Long

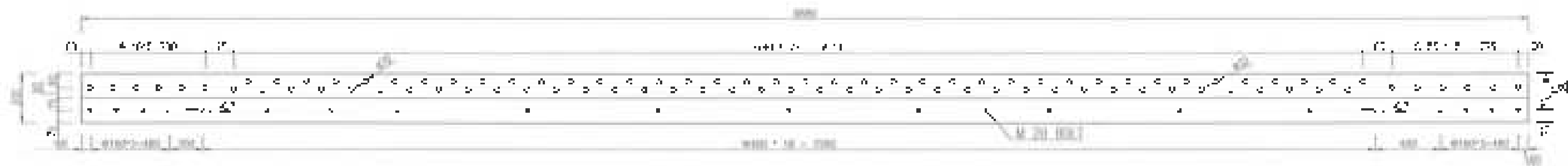


BUILT UP RAIL OF BRIDGE CHORD = 30"
 (BUILT UP RAIL = 8")
 RAIL 100x100x6 mm x 2500 mm Long
 RAIL 100x100x6 mm x 2500 mm Long

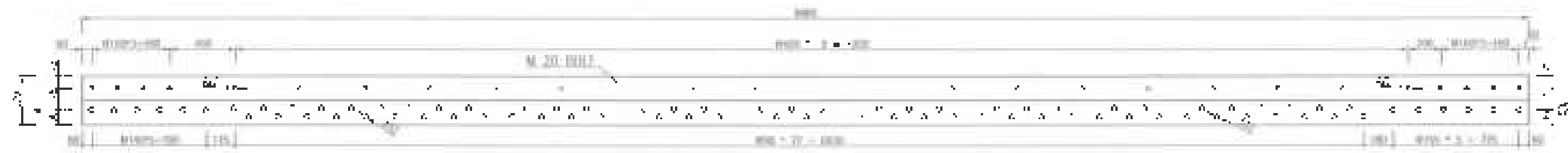
PROJECT NO. 10/2019 DEPARTMENT OF HIGHWAYS CONSTRUCTION DIVISION ROAD & BRIDGE ROAD & BRIDGE	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTC-KALIKA JV BALUVATAR, KATHMANDU	CONTRACT NO. ETRC/0001 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	DRAWING NO. ALL BUILT DRAWING SUBCONTRACT NO. 10/2019	DATE 10/2019 10/2019 10/2019	SCALE 1:25	SHEET NO. 12
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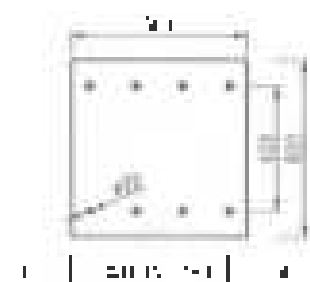
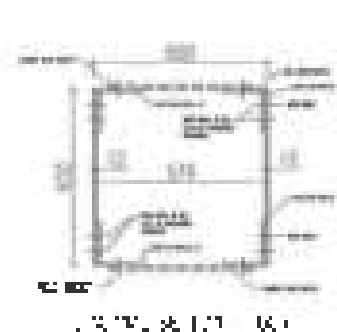
BUILT UP ANGLE OF APPROACH (CHORD) = 100
 BUILT UP ANGLE = 100
 AREA = 10000 mm² = 1000 mm² long
 PROVIDED = 100



BUILT UP ANGLE OF APPROACH (CHORD) = 100
 BUILT UP ANGLE = 100
 AREA = 10000 mm² = 1000 mm² long
 PROVIDED = 100



BUILT UP ANGLE OF APPROACH (CHORD) = 100
 BUILT UP ANGLE = 100
 AREA = 10000 mm² = 1000 mm² long
 PROVIDED = 100

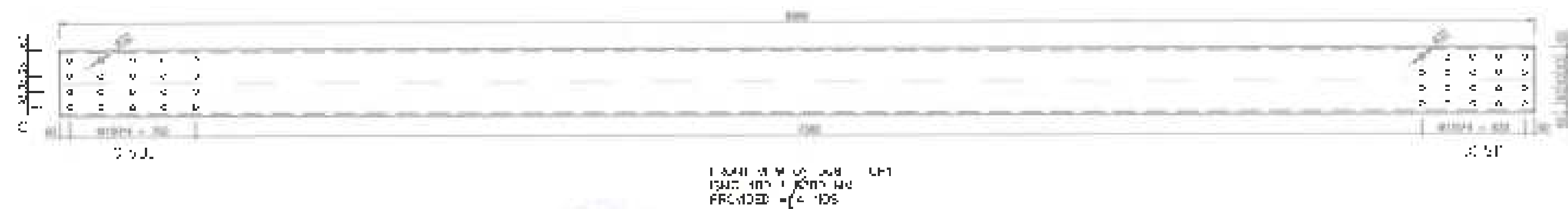
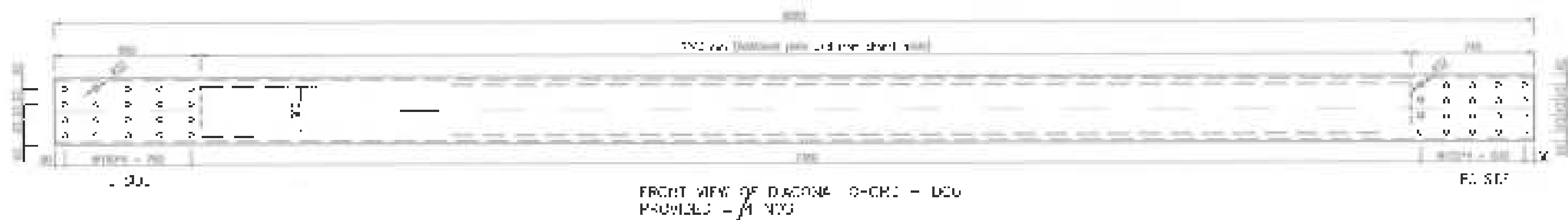
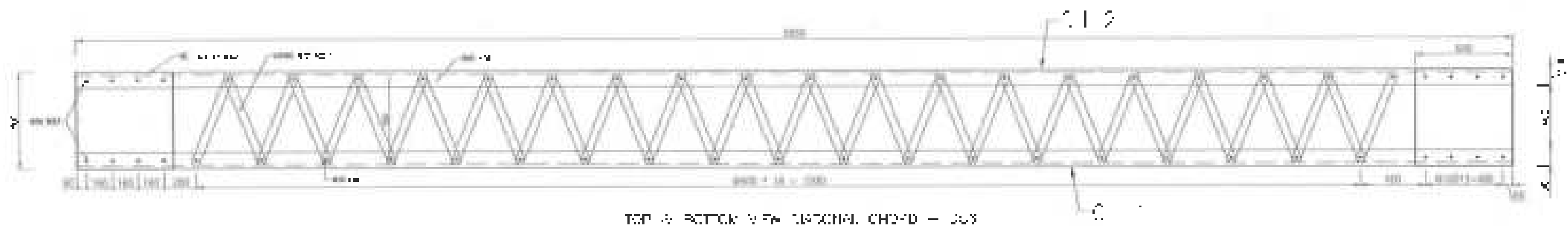


Top Flange of 1000
 Total 10000 mm² = 1000 mm² long
 PROVIDED = 100

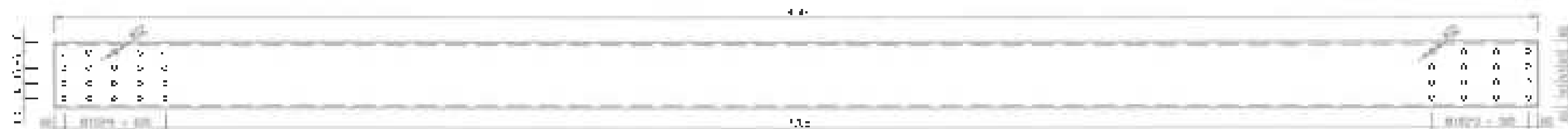
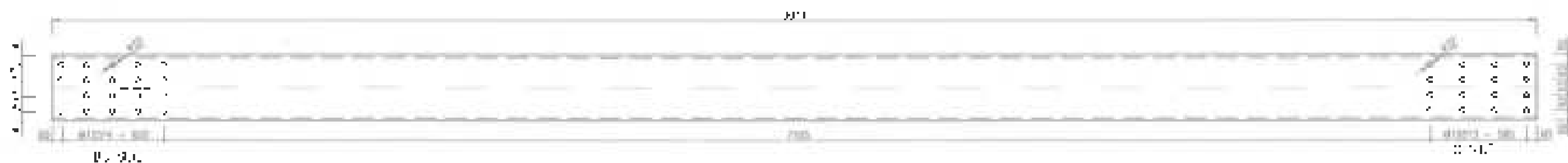
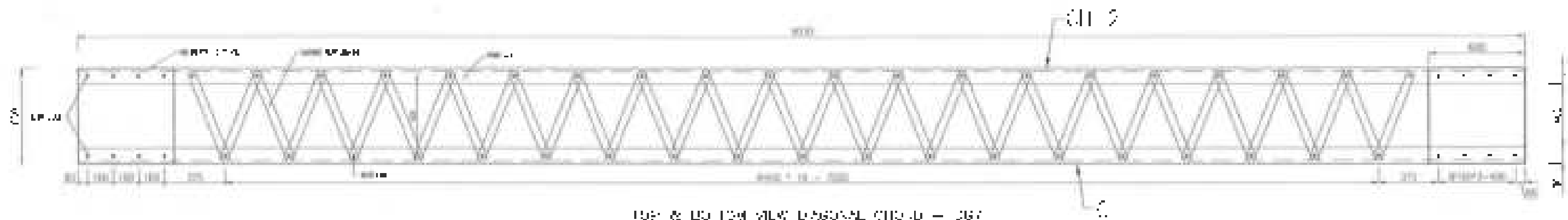


Long Flange of 1000
 Total 10000 mm² = 1000 mm² long
 PROVIDED = 100

UNIVERSITY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING K. J. Somaiya Institute of Technology And Engineering V. P. Mehta Road, Gandhinagar, Mumbai - 400 072	CONSULTANT Korco Engineering Consultant Corp.	DRAWN BY CTCE-KALIKATY BALLYATANK, KATHMANDU	CONTRACTING ORGANIZATION CONSTRUCTION OF KOSLI BRIDGE AND APPROACHES AT CHATARA	DRAWN BY DR. B. L. JHATEL LEADERSHIP GROUP, DCC	APPROVED BY [Signature] [Signature]	SCALE = 1:25 [Signature]	SCALE = 1:25	SCALE = 1:25	DATE 10/10/2013 PAGE NO. 13
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PREPARED BY: ENGINEER (CIVIL) DEPARTMENT OF ROADS KATHMANDU DATE: 10/10/2019	CHECKED BY: Kirtan Engineering Consultant Corp.	APPROVED BY: CTCE-KALIKA JV HATHIWADAR, KATHMANDU	CONTRACT NO. L-113-01/2019 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALANA)	DRAWING NO. 113/01/2019-001	SHEET NO. 14	TOTAL SHEETS 14	SCALE 1:100	DATE 10/10/2019	BY [Signature]
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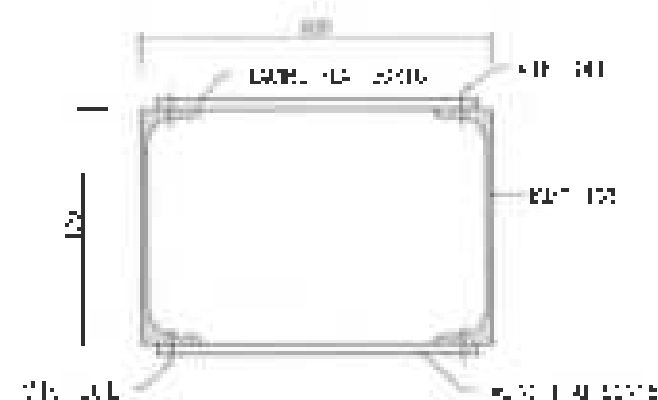
DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION 100-100, 100-100, 100-100	Korea Engineering Consultant Corp.	CHONG-KALIKIA JV 100-100, 100-100, 100-100	CONSTRUCTION OF KCSH BRIDGE AND APPROACHES (CHANGARA)	AS PER DRAWING TANGKALIA 001-207	100-100, 100-100, 100-100	100-100, 100-100, 100-100	100-100, 100-100, 100-100	100-100, 100-100, 100-100	100-100, 100-100, 100-100
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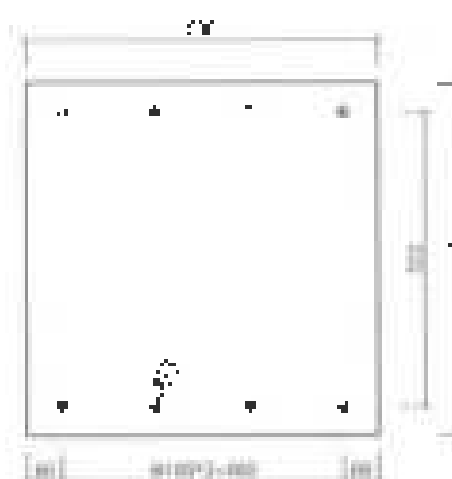
FRONT VIEW OF D07 - 242
Plate Size 1000x10000 mm
Thickness = 10 mm



TOP & BOTTOM VIEW OF D07 - 242



DIAGONAL SECTION - D07

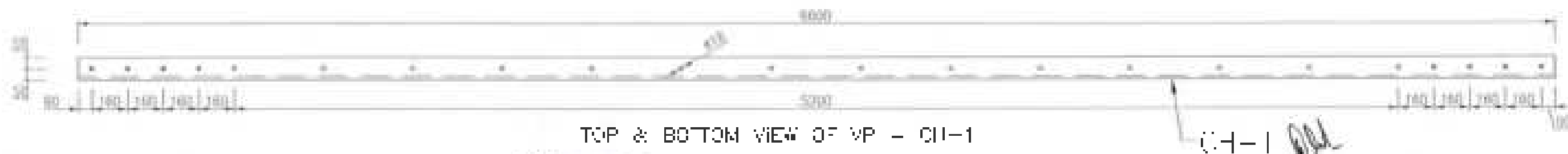
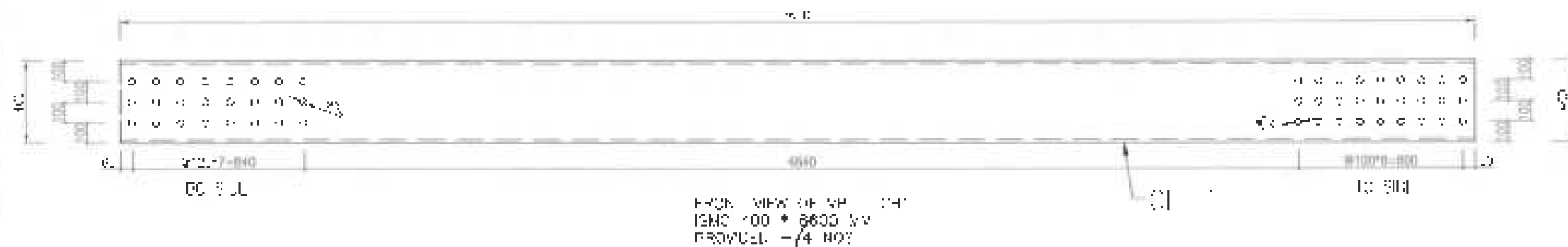
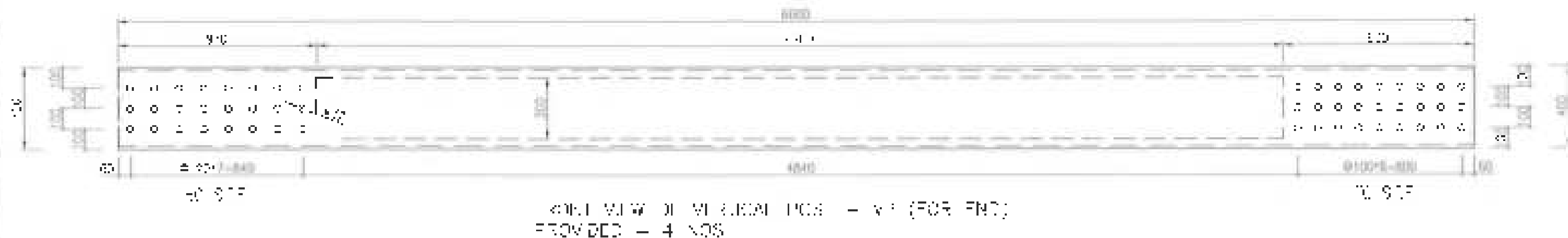
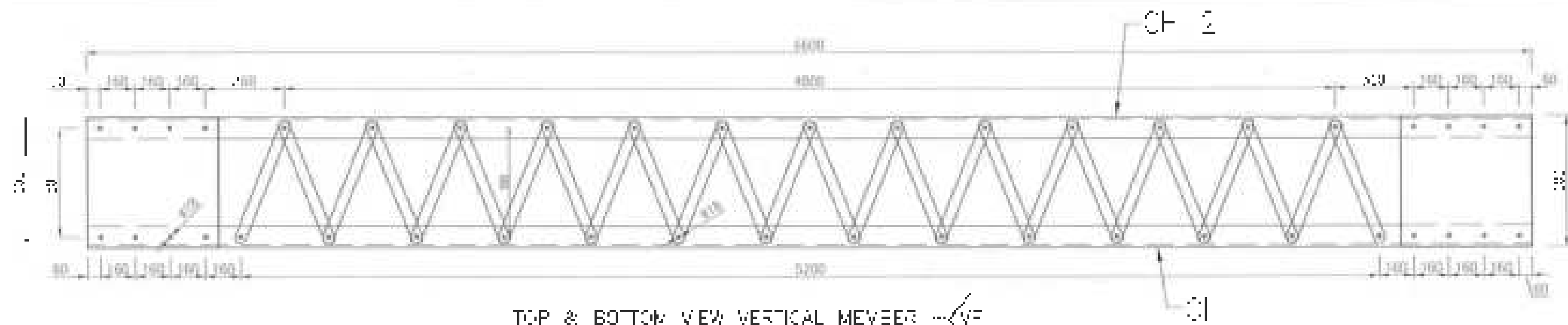


Top View of D07
Plate Size 1000x1000 mm
Thickness = 10 mm

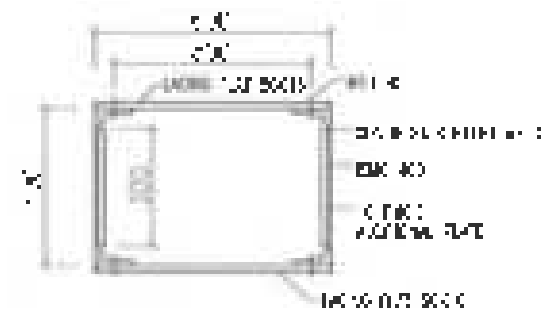
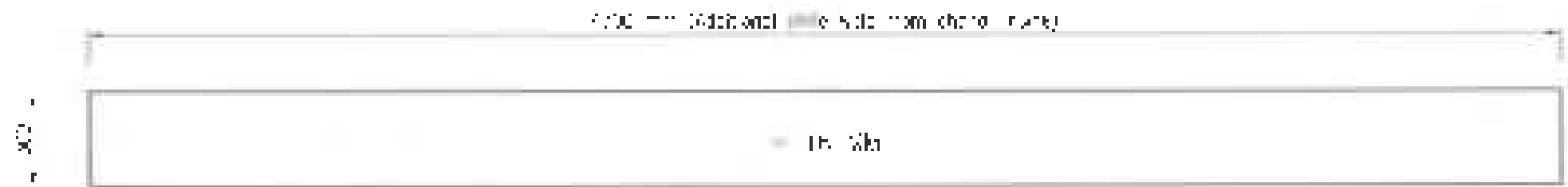
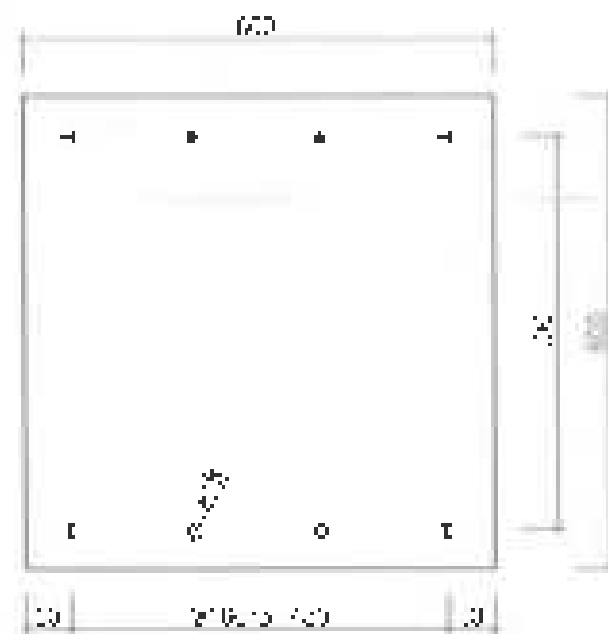


Side View of D07
Plate Size 1000x1000 mm
Thickness = 10 mm

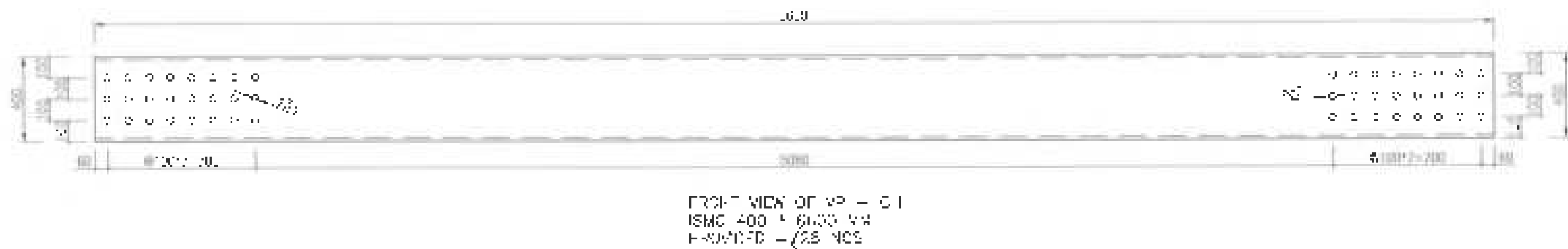
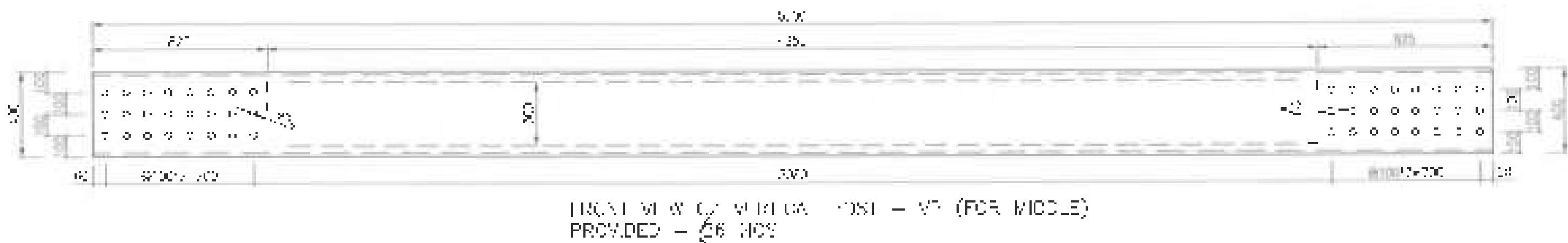
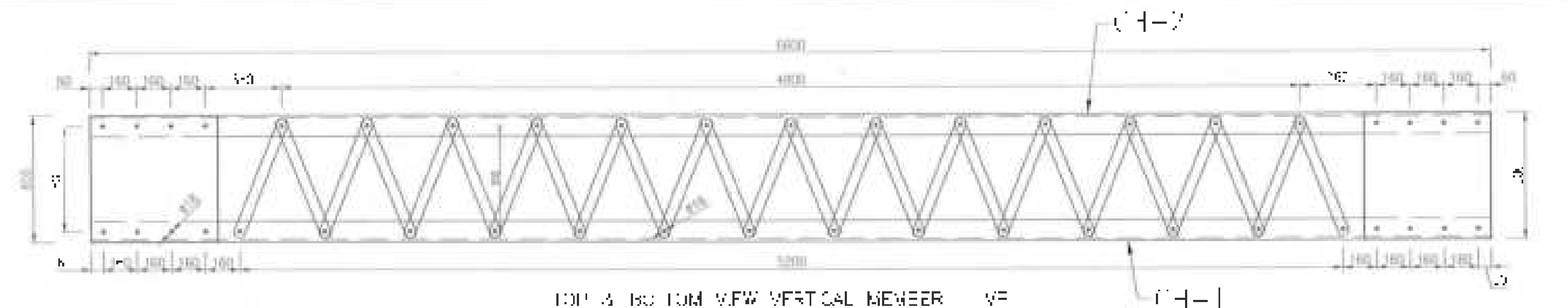
DEPARTMENT OF ROADS MINISTRY OF TRANSPORTATION ROAD CONSTRUCTION DIVISION	DESIGNER Korea Engineering Consultant Corp.	DESIGNER CICE-KALUKA JV BALIYAPAL, KATHMANDU	DESIGNER CONSTRUCTION OF KOSHI BRIDGE AND APPROACH - S (CHAIKRA)	DESIGNER ASPHALT PAVING BANGKAL, CHAIKRA	DATE 10/10/2020	SCALE 1:1	SCALE 1:1	SCALE 1:1	SCALE 1:1
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PROJECT NAME DEPARTMENT OF ROADS ROAD CONSTRUCTION PROJECT ROAD NO. 100 (100M) ROAD DIVISION (CH-1, CH-2)	CONSULTANT Kure Engineering Consultant Corp.	CONTRACTOR CTCE-KARIKA JV (KURE ENGINEERING CONSULTANT CORP. & KARIKA JV)	CONTRACT NO. CONSTRUCTION OF 100M BRIDGE AND APPROACHES (CH-1, CH-2)	DRAWING NO. AS BUILT DRAWING VERTICAL MEMBER - VP FOR END	DATE 2023.08.10 10/08/23	SCALE 1:50	SHEET NO. 18	TOTAL SHEETS 18
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DEPARTMENT OF ROADS KERALA KALAMANGALAM KALAMANGALAM	Kotes Engineering Consultant Corp.	CTCE-KALAMANGALAM KALAMANGALAM	CONSTRUCTION OF KCSH BRIDGE AND APPROACH-5 (CHALARA)	VERTICAL MEMBER = VP FOR THE	PLATE 12*600*600 mm PROVIDED = 10 Nos	PLATE 12*600*600 mm PROVIDED = 10 Nos	PLATE 12*600*600 mm PROVIDED = 10 Nos	PLATE 12*600*600 mm PROVIDED = 10 Nos	PLATE 12*600*600 mm PROVIDED = 10 Nos
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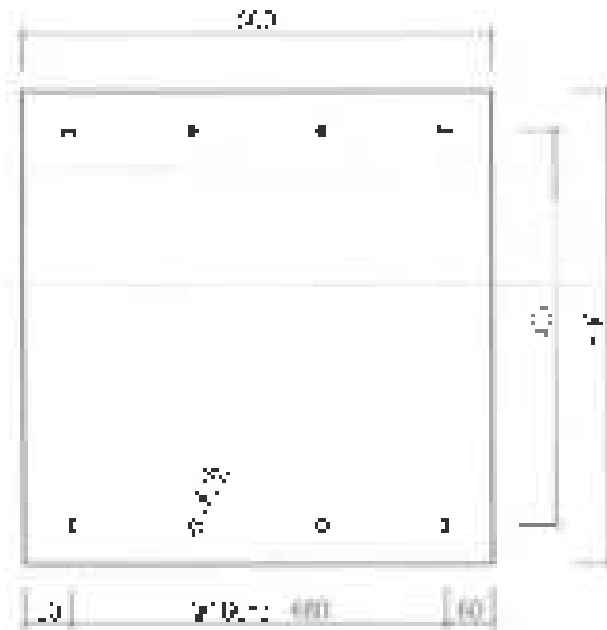
GOVERNMENT OF KERALA DEPARTMENT OF ROADS KONNAR ENGINEERING CONSULTANTS KONNAR ENGINEERING CONSULTANTS KONNAR ENGINEERING CONSULTANTS	KONNAR ENGINEERING CONSULTANTS CORP.	CHICK-KALIA JV RAILWAY, KANNUR	CONSTRUCTION OF KONNAR BRIDGE AND APPROACHES (CHATARA)	VERTICAL MEMBER ISMC 400 x 6000 VF	1-18000 2-15000 3-1000	CH-1 CH-2	SCALE: 1:10	NO. OF SHEETS 10	DATE: 10/10/2020 BY: 10/10/2020 CHECKED: 10/10/2020
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PLAN VIEW OF VP = C12
 SMC 400 x 1000 MM
 PROVIDED = 2 NOS



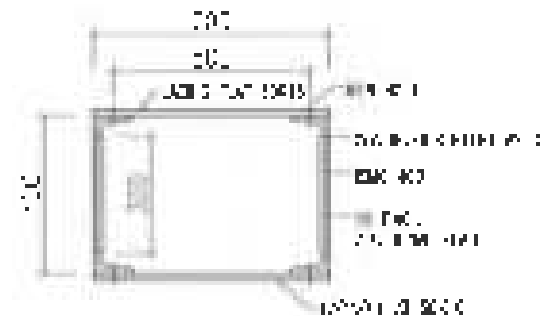
TOP & BOTTOM VIEW OF VP = C11-1



Plan View of VP
 Plate 12*800*600 mm
 PROVIDED = 104 Nos



ADDITIONAL PLATE FOR VERTICAL MEMBER = VP
 PLATE 12*800*600 MM
 PROVIDED = 2 NOS



VERTICAL MEMBER

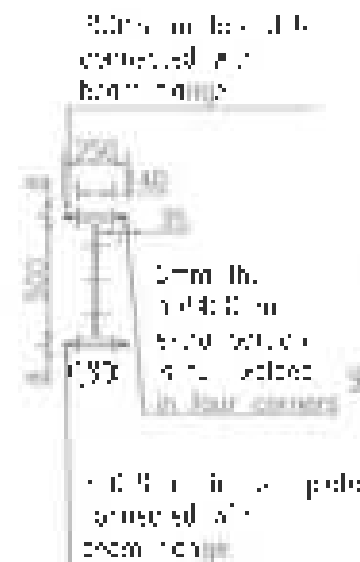


Locking Plate of VP
 Plate 12*800*600 mm
 PROVIDED = 352 Nos

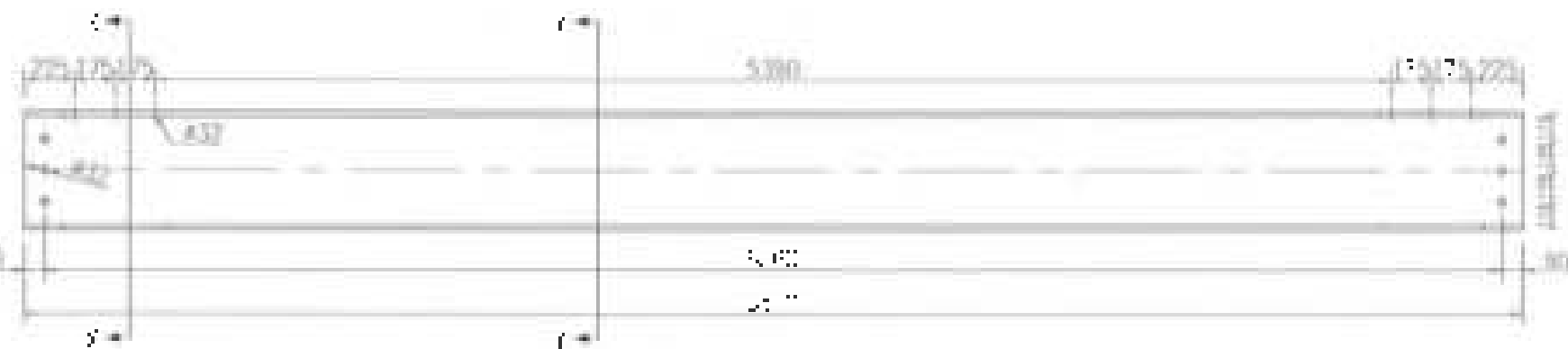
DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION KATHMANDU	Korea Engineering Consultant Corp.	CTCE KALIKA JV BALUNATAK KATHMANDU	CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (DHATAHA)	VERTICAL MEMBER - VP FOR HOLE	PLAN VIEW SIDE VIEW TOP VIEW	16	16	16
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TOP & BOTTOM VIEW OF CROSS BEAM - CB
 IPE 500 2PL 250*8
 REQUIRED 3 nos (100% R.F.P.)



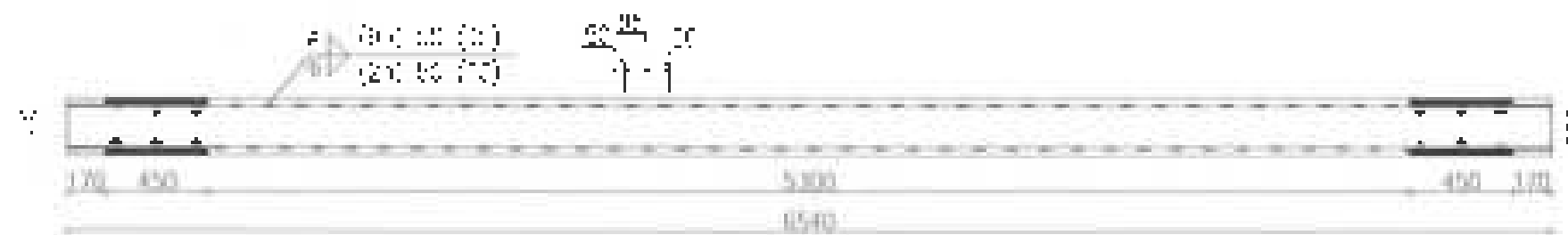
SECTION A-A View



SIDE VIEW OF CROSS BEAM - CB
 IPE 500 2PL 250*8
 REQUIRED 3 nos (100% R.F.P.)

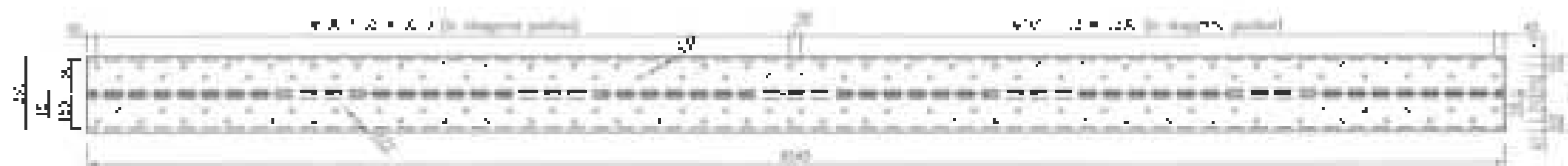


SECTION A-A View

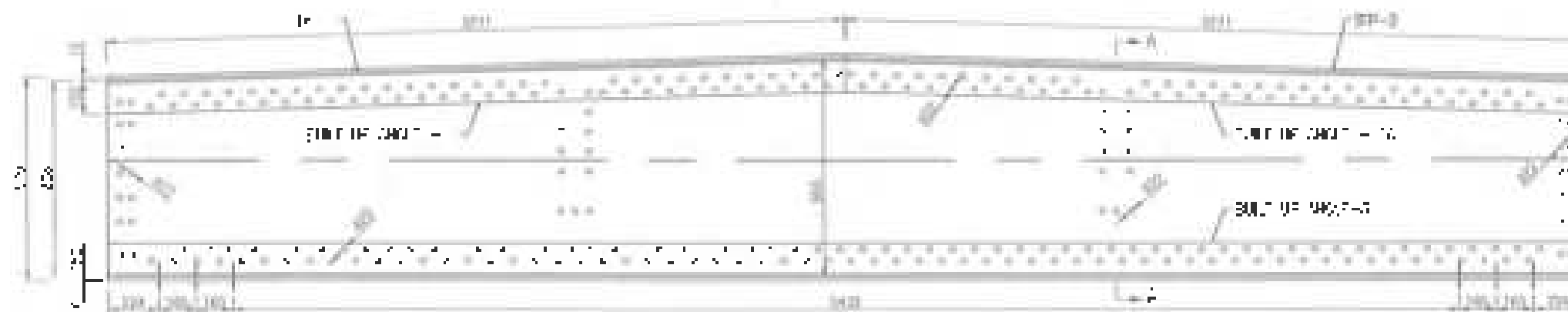


CROSS SECTION OF BRIDGE AND APPROACH SLAB CONNECTION

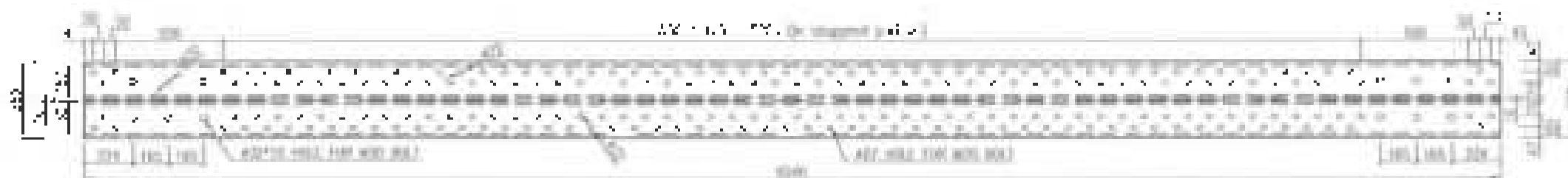
PROJECT NAME: Koshi Bridge and Approach Slab DEPARTMENT OF ROADS KATHMANDU PROJECT NO: KOSHI/2073/2074 PROJECT LOCATION: CHATARA	CONSULTANT: Korea Engineering (Consultant Corp.)	CLIENT: CTCE KATHMANDU KATHMANDU, KATHMANDU	CONTRACT DESCRIPTION: CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATARA)	DRAWING NO: AS BUILT DRAWING CROSS BEAM	SCALE: 1:100 1:200 1:500	DATE: 2073/2074	DRAWN BY: SCALE: 1:100	CHECKED BY: SCALE: 1:100	APPROVED BY: SCALE: 1:100
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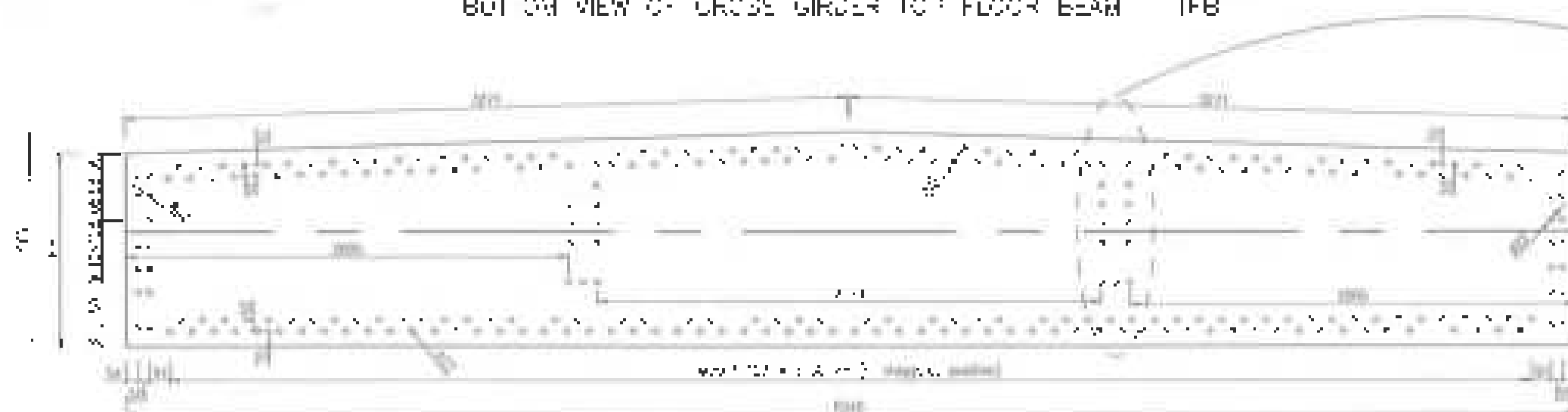
TOP VIEW OF CROSS GIRDER FOR FLOOR BEAM - TFD



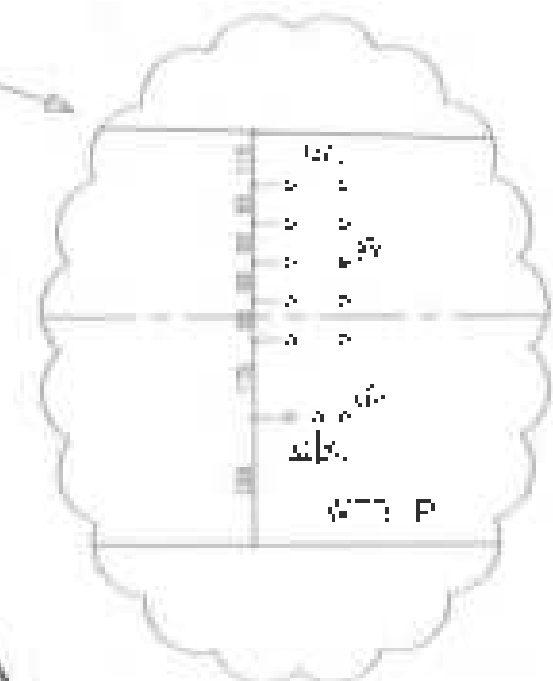
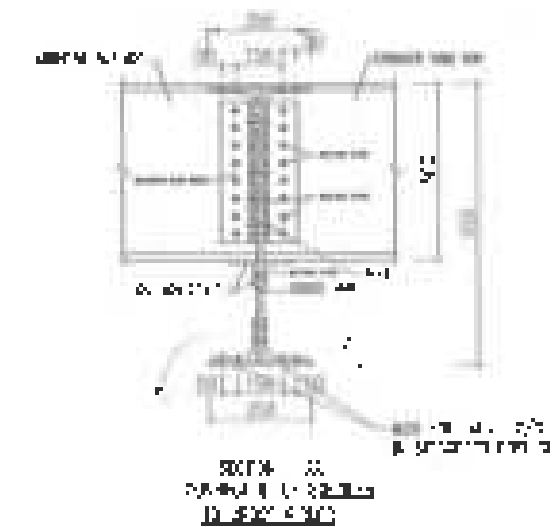
FRONT VIEW OF TOP FLOOR BEAM - TFB
PROVIDED - 16 NOS



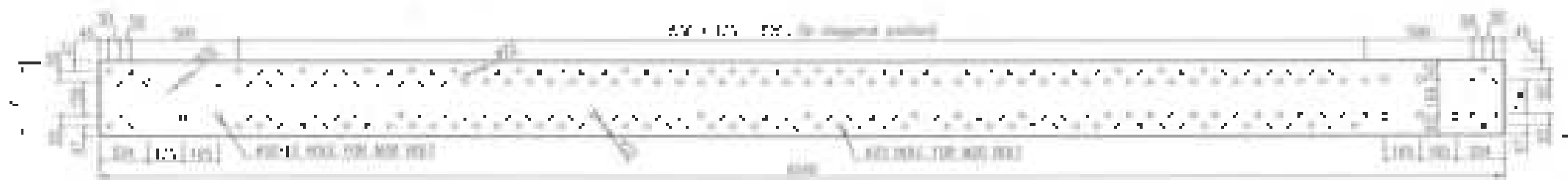
BOTTOM VIEW OF CROSS GIRDER FOR FLOOR BEAM - TFB



DETAIL OF TOP FLOOR BEAM WEB PLATE
PLATE 16 * 956 * 8500 MM
PROVIDED - 16 NOS



PREPARED BY: DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION ADD: GATE NO. 1, KATHMANDU TEL: 977-01-4222222, 4222223	CONSULTANT: Korea Engineering Consultant Corp.	DRAWN BY: CTCE-KATHMANDU HAI SHYALAK KATHMANDU	CONTRACT NO. FOR BRIDGE WITH APPROACHES (CHATARA)	DRAWING NO. ASSEMBLY DRAWING TOP FLOOR BEAM - TFB	DATE: 10/01/2018	SCALE: 1:50	SHEET NO. 18
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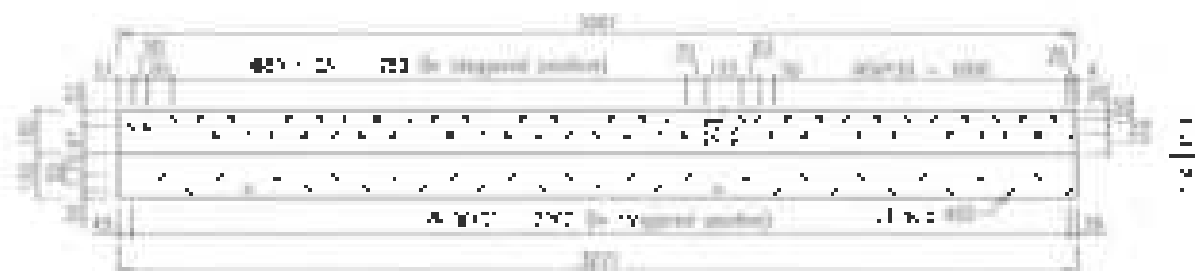
DETAIL OF TOP FLOOR BEAM BOTTOM FLANGE PLATE
PLATE 15 = 300 x 8x10 MM
PROVIDED = 15 NOS



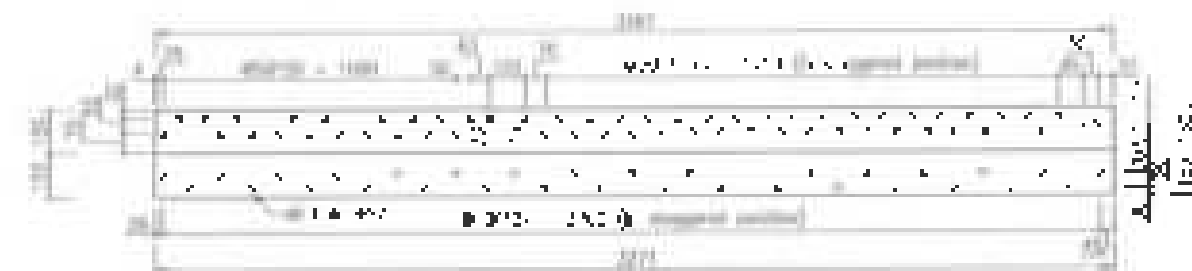
DETAIL OF TOP FLOOR BEAM TOP FLANGE PLATE = 15-2
PLATE 16 = 300 x 8x10 MM
PROVIDED = 15 NOS



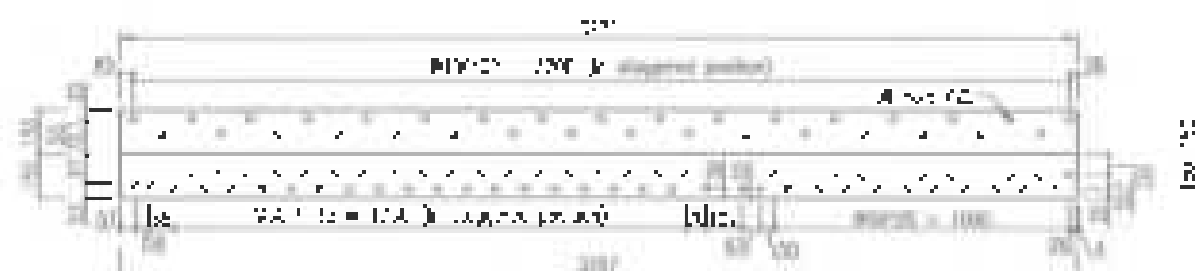
DETAIL OF TOP FLOOR BEAM TOP FLANGE PLATE = 15-2
PLATE 16 = 300 x 8x10 MM
PROVIDED = 15 NOS



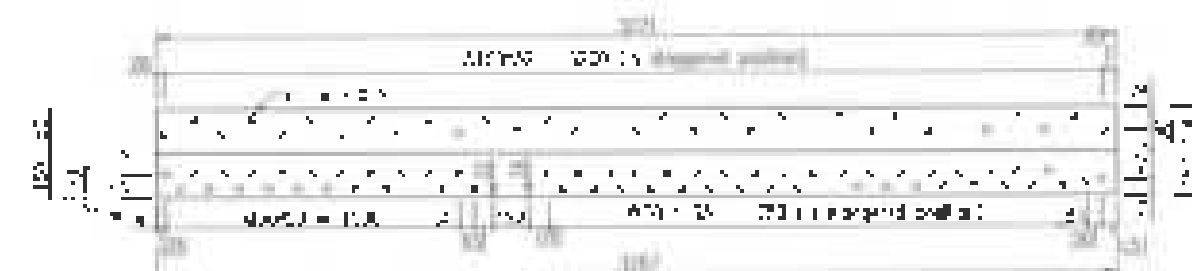
DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE = 1
ANGLE 12x150x150 MM
PROVIDED = 15 NOS



DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE = 2
ANGLE 12x150x150 MM
PROVIDED = 15 NOS

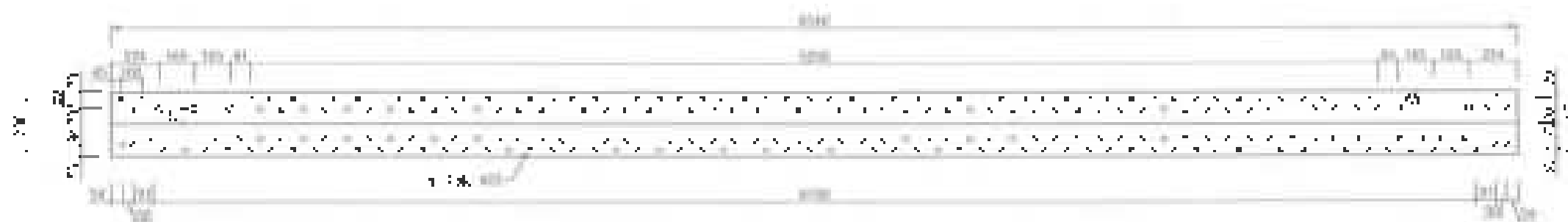


DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE = 2
ANGLE 12x150x150 MM
PROVIDED = 15 NOS

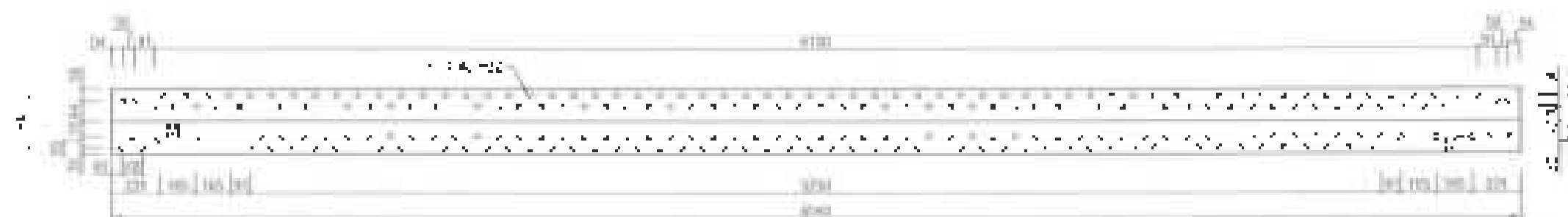


DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE = 2A
ANGLE 12x150x150 MM
PROVIDED = 15 NOS

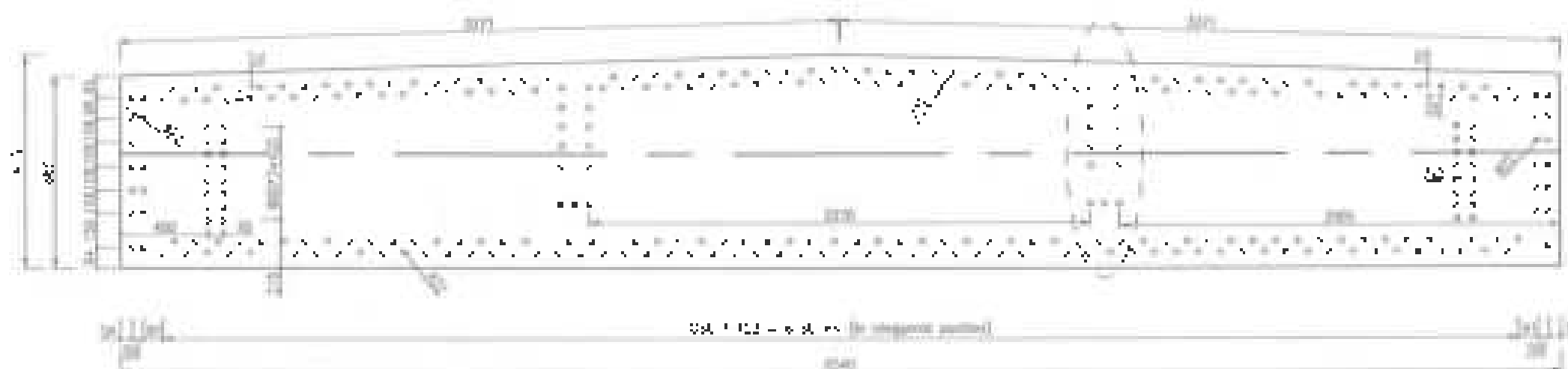
MINISTRY OF FEDERAL PLANNING AND WORKS DEPARTMENT OF ROADS ROAD CONNECTIVITY SECTOR PROJECT Koshi Sursida Development Project (Koshi Development, Nepal)	CONSULTANT Kurex Engineering Consultant (Pvt.)	CLIENT CTCR-KALKA JV KALKA JV, KATHMANDU	CONSTRUCTION ESTIMATION CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA ;	WORK NAME TOP FLOOR BEAM - TC	DATE 10/05/2020	SCALE 1:20	PAGE 18	REVISION 1
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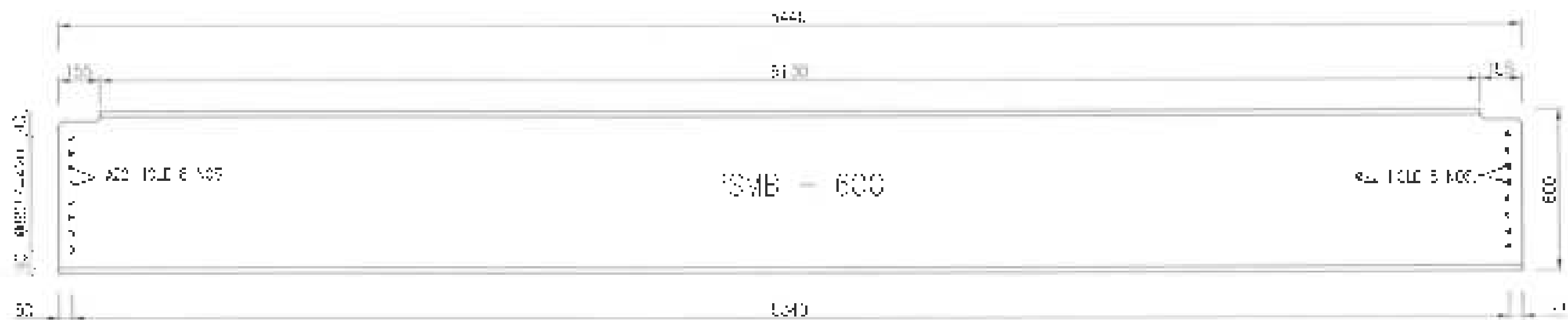
DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE - 3
ANGLE 125x60x100 MM
PROVIDED - 15 NOS



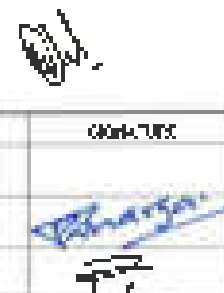
DETAIL OF TOP FLOOR BEAM BUILT UP ANGLE - 4
ANGLE 125x60x100 MM
PROVIDED - 15 NOS

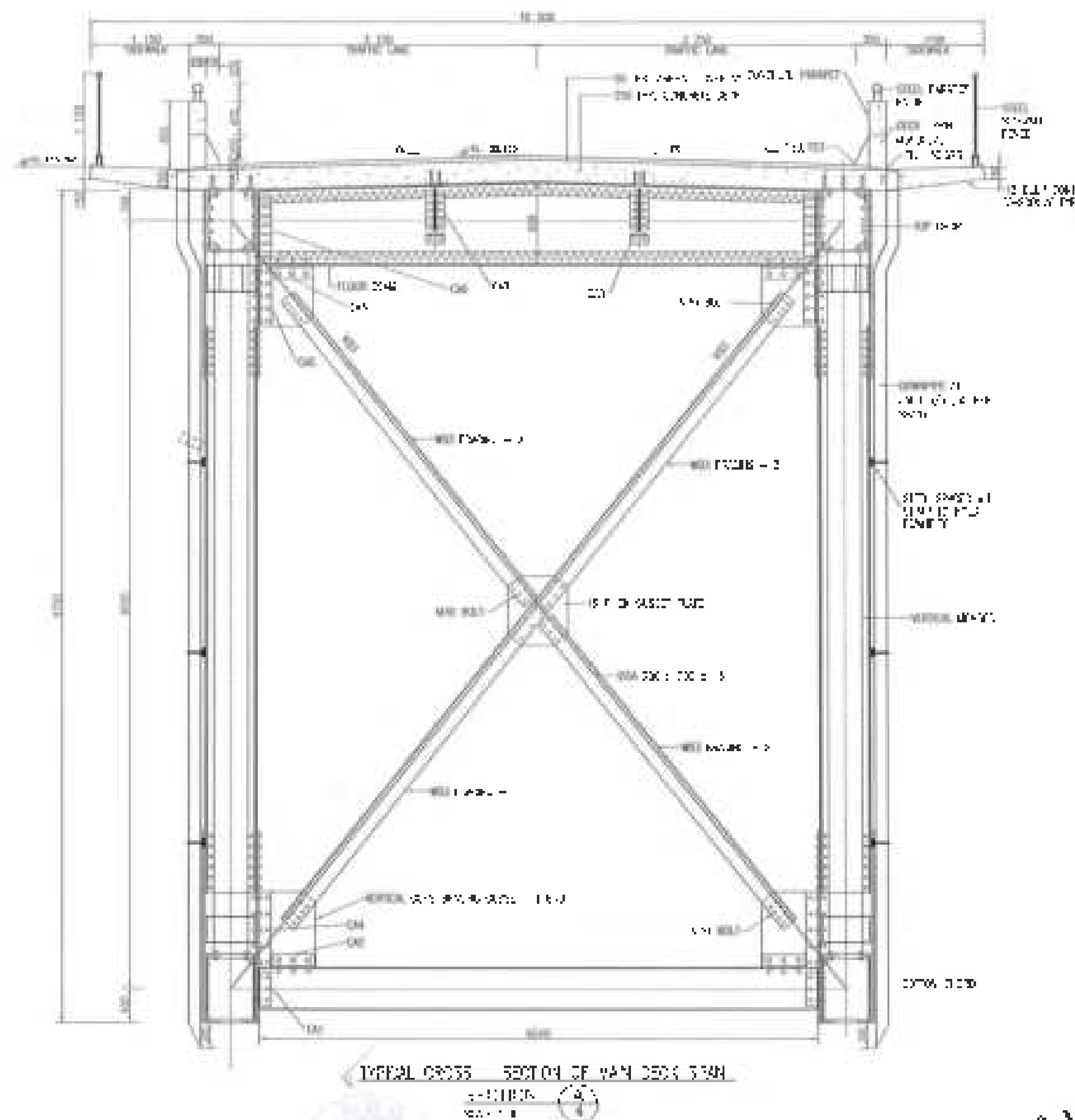


DETAIL OF TOP FLOOR BEAM WEB PLATE AT END
PLATE 18x956x3510 MM
PROVIDED - 2 NOS

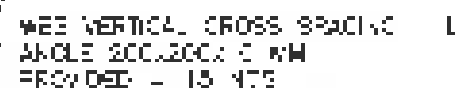
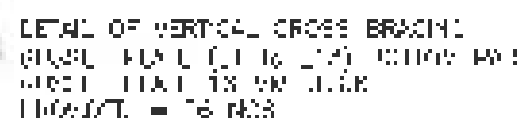
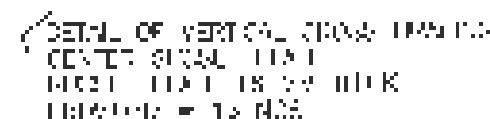
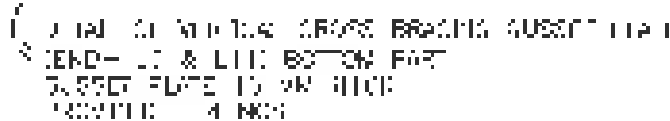


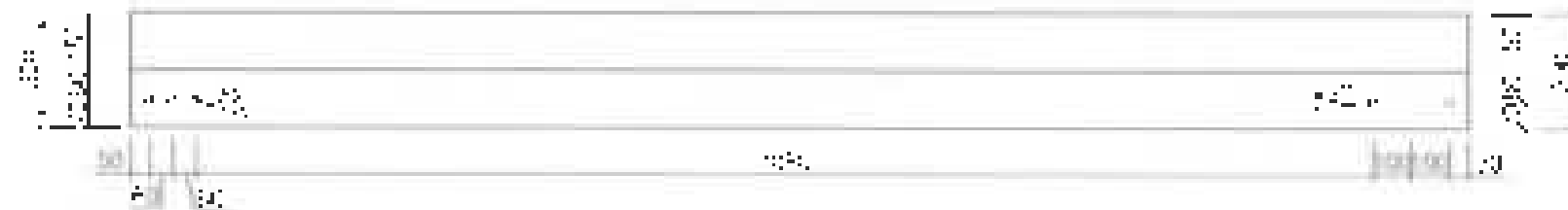
✓ - ALL OF STRINGER BEAM
SMB - 600
PROVIDED - 28 NOS

GOVERNMENT OF NEPAL MINISTRY OF FEDERAL GOVERNMENT DEPARTMENT OF HIGHWAYS ROAD AND AIRPORT CONSTRUCTION ROAD NO. 102, KATHMANDU ROAD NO. 102, KATHMANDU	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR  CTCE-KARIMA JV BAHUWATARI, KATHMANDU	CONTRACT NO. FEP01000000 CONSTRUCTION OF KOSH BRIDGE AND APPROACHES (CHATARA)	DRAWING NO. AS BUILT DRAWING STRINGER PLAN - SS	CHECKED BY DESIGNED BY APPROVED BY	SIGNATURE  	DATE 2073-11-10	SCALE 1:100	SHEET NO. 15 TOTAL SHEETS
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CONSULTANT MINISTRY OF LAND, TRANSPORT AND INFRASTRUCTURE DEPARTMENT OF HIGHWAYS ROAD AND BRIDGE DIVISION 100-70, JONGRO 3-DONG, SEONGLO-GU, SEOUL KOREA	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR  CTCE-KALINA JV BALUNATA & KATHMANDU	CONTRACT DOCUMENT CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (GHATARA)	DRAWING NO. AS BUILT DRAWING 13/08/2023	DATE 13/08/23	SCALE 1:100	SHEET NO. 20	TOTAL SHEETS 20
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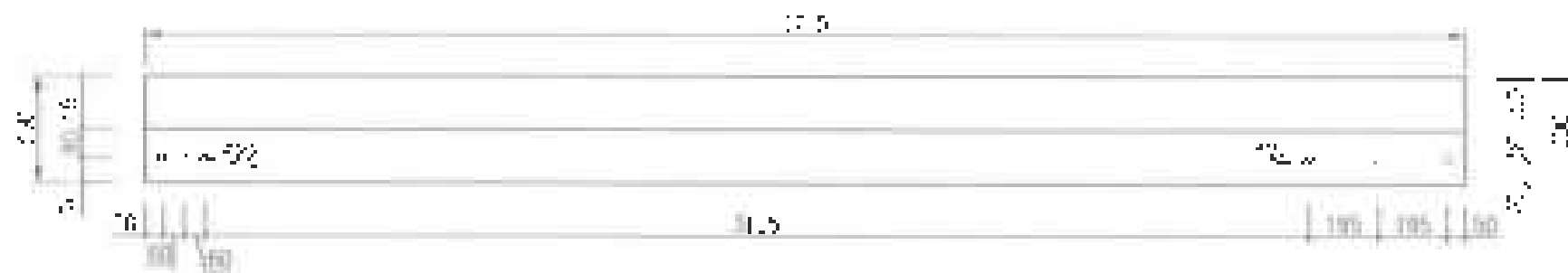




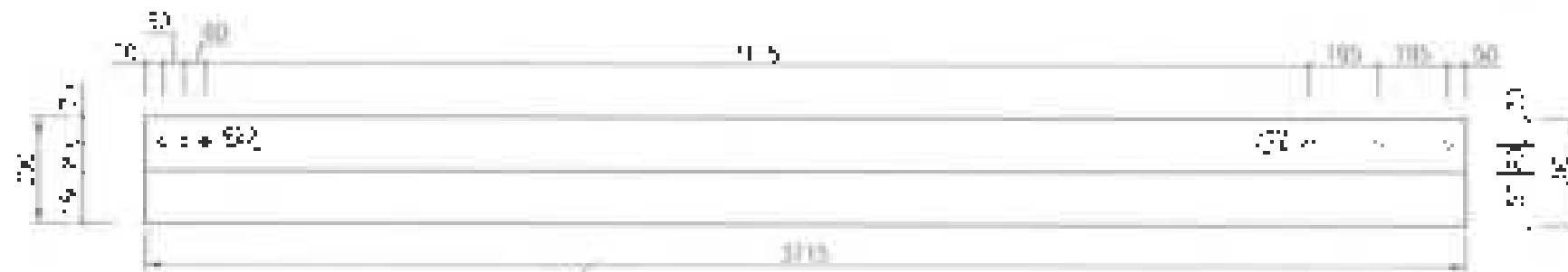
TOP LONGITUDINAL CROSS BRACING-1 R (END)
ANGLE 50x150x12 MM
PROVIDED = 2 NOS



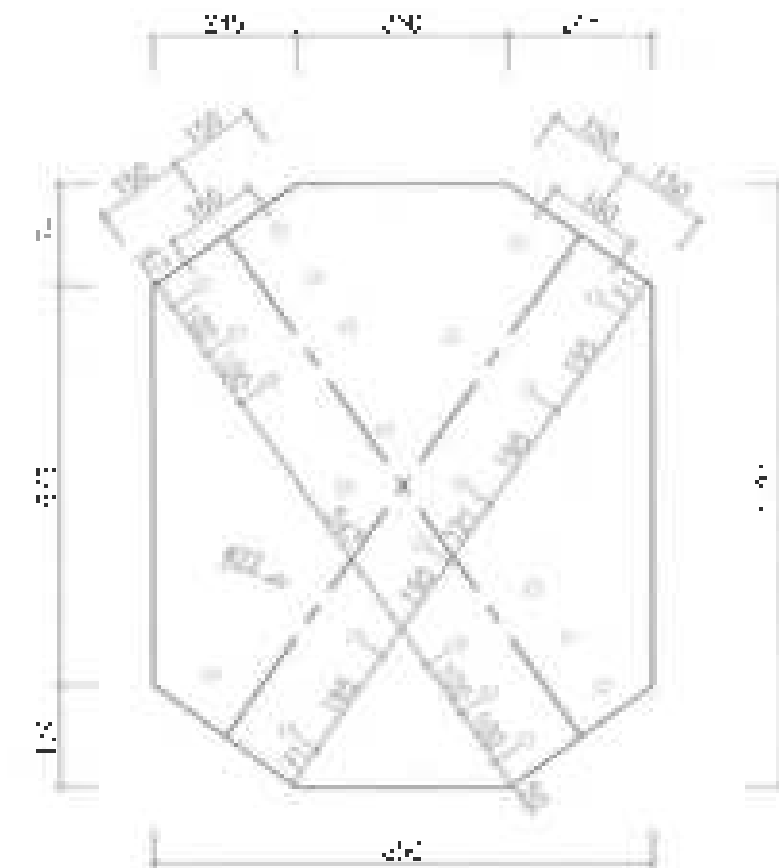
BOTTOM LONGITUDINAL CROSS BRACING-1 R (END)
ANGLE 150x150x12 MM
PROVIDED = 2 NOS



TOP LATERAL CROSS BRACING-2 R (END)
ANGLE 150x150x12 MM
PROVIDED = 2 NOS

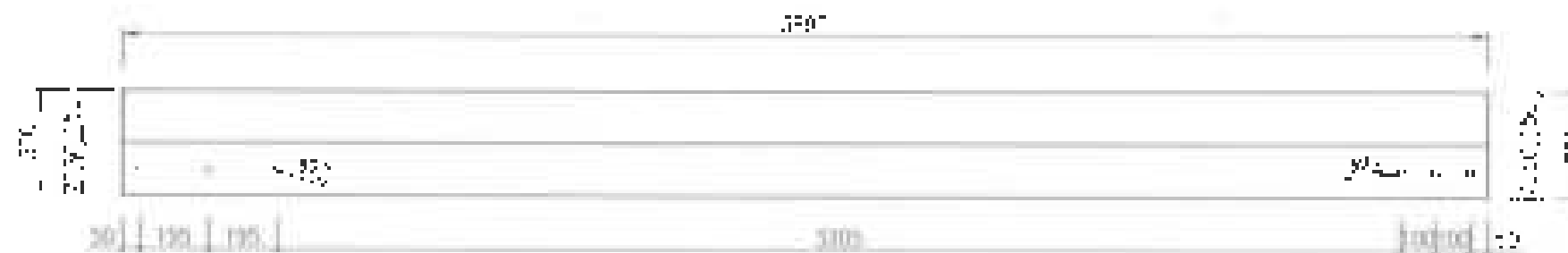


BOTTOM LATERAL CROSS BRACING-2 R (END)
ANGLE 150x150x12 MM
PROVIDED = 2 NOS



PLAN OF THE CROSS BRACING
PROVIDED = 2 NOS

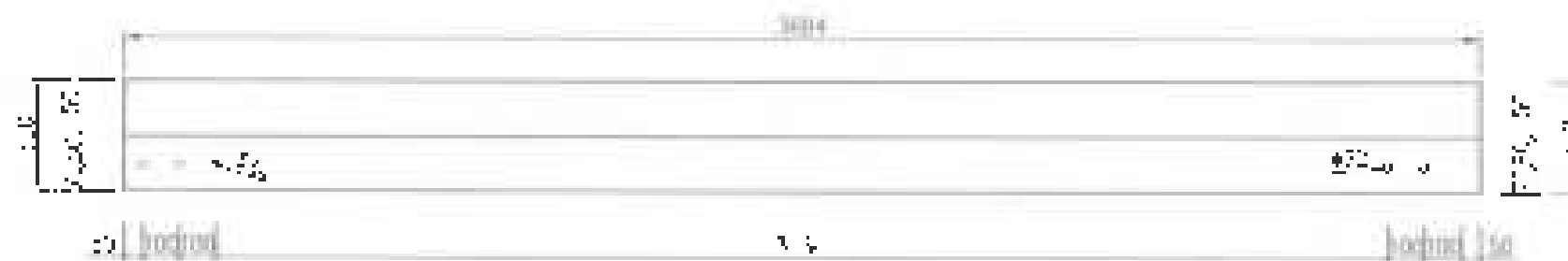
PREPARED BY: DEPARTMENT OF ROADS ROAD CONSTRUCTION SECTION KATHMANDU, NEPAL DATE: 2073/01/25	CONSULTANT: Korea Engineering Consultant Corp.	CHECKED BY: CTCE-KATHMANDU KATHMANDU, NEPAL	CONSTRUCTION: CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHATAFA)	APPROVAL: ASSEMBLY KOSHI PROVINCE KATHMANDU	SCALE: 1:100	DATE: 2073/01/25	DRAWN BY: 21	CHECKED BY: 21	DATE: 2073/01/25
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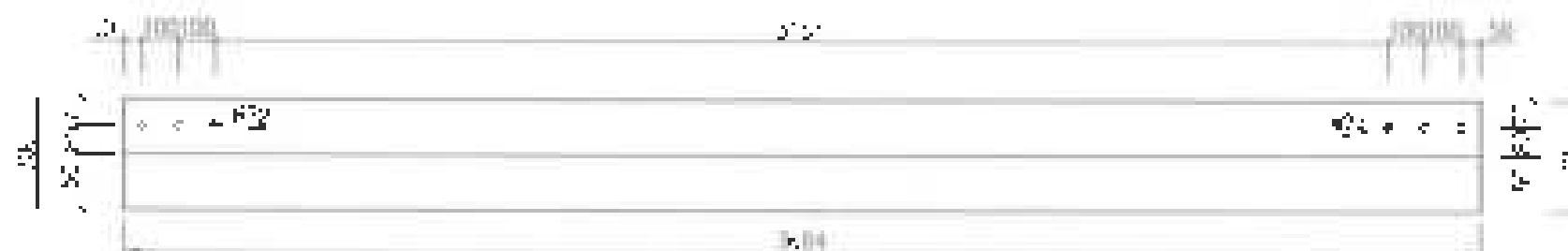
TOP OF DECK - CROSS BRACING - 1 (END)
ANGLE : 100x100x12 MM
PROVIDED : 2 NOS



BOTTOM DECK - CROSS BRACING - 2 (END)
ANGLE : 100x100x12 MM
PROVIDED : 2 NOS

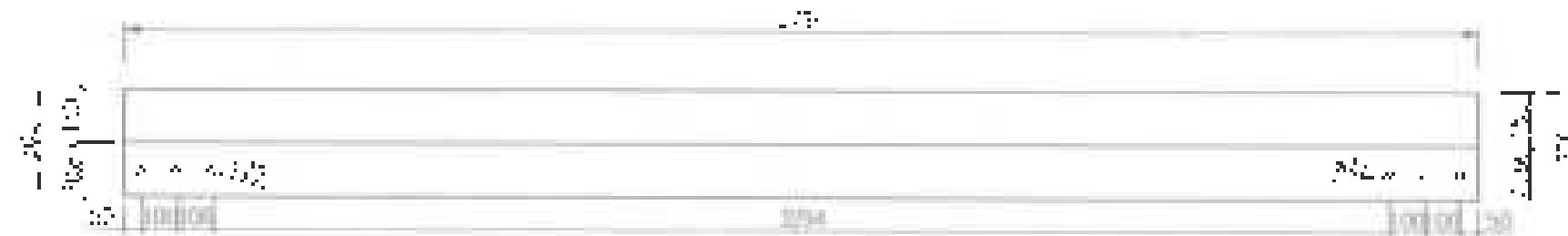


TOP OF DECK - CROSS BRACING - 3 (END)
ANGLE : 100x100x12 MM
PROVIDED : 2 NOS



BOTTOM DECK - CROSS BRACING - 4 (END)
ANGLE : 100x100x12 MM
PROVIDED : 2 NOS

DEPARTMENT OF HIGHWAYS KOREA HIGHWAY CORPORATION DEPARTMENT OF HIGHWAYS KOREA HIGHWAY CORPORATION KOREA HIGHWAY CORPORATION	CONSULTANT Korea Engineering Consultant Corp.	DESIGNER CTCE-KALRA JV BALUWATER, KATHMANDU	CONTRACT NO. EPHN-00000000 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHAFARA)	AS BUILT DRAWING BOTTOM CROSS BRACING END PANEL	DATE REVISION REVISION	SCALE SCALE = 1:50	DATE DATE	DATE DATE	DATE DATE
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TOP OF BRIDGE DECK CROSS BRACING 1 (M)
ANGLE 50x50x2 MM
PROVIDED = 24 NOS



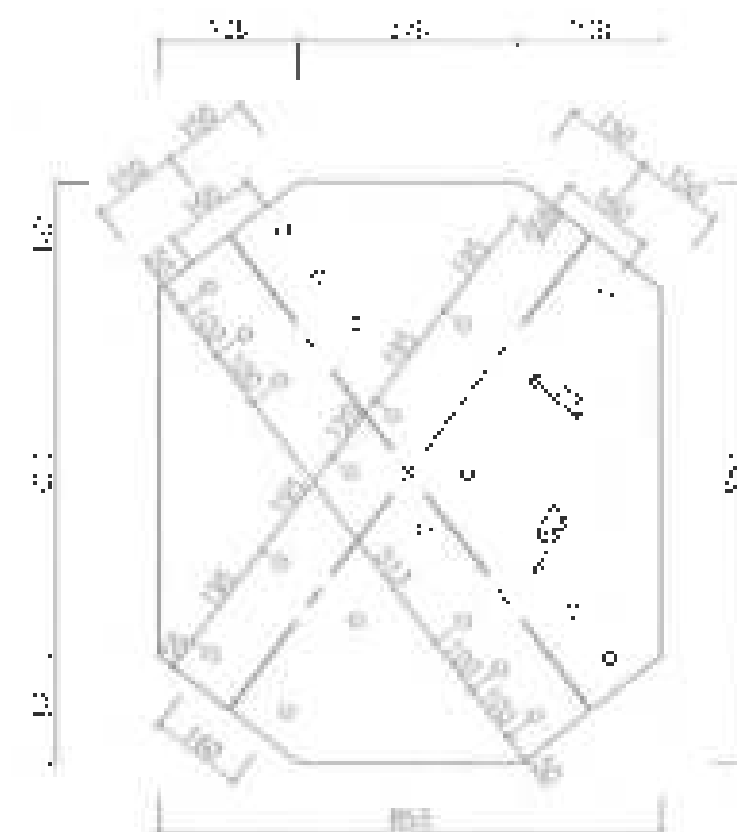
BOTTOM OF BRIDGE DECK CROSS BRACING 2 (M)
ANGLE 50x50x2 MM
PROVIDED = 24 NOS



TOP OF BRIDGE DECK CROSS BRACING 2 (M)
ANGLE 50x50x2 MM
PROVIDED = 24 NOS

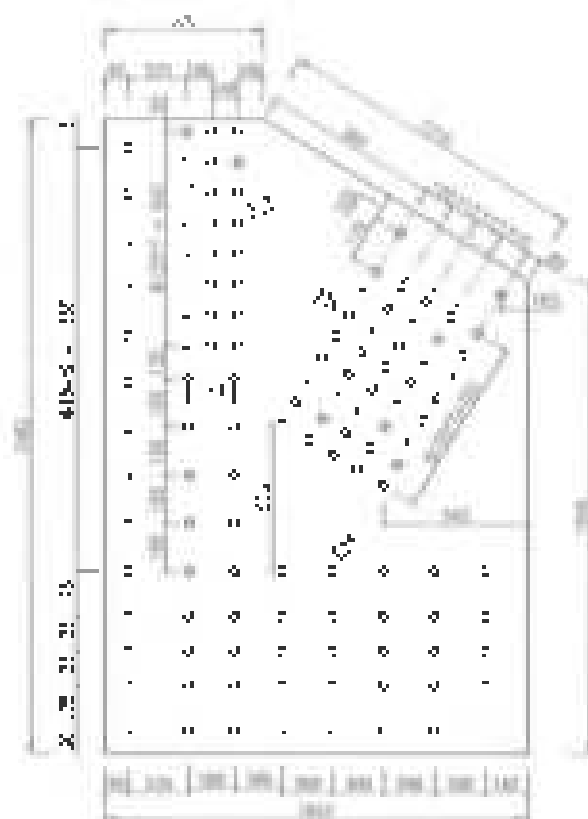


BOTTOM OF BRIDGE DECK CROSS BRACING 2 (M)
ANGLE 50x50x2 MM
PROVIDED = 24 NOS

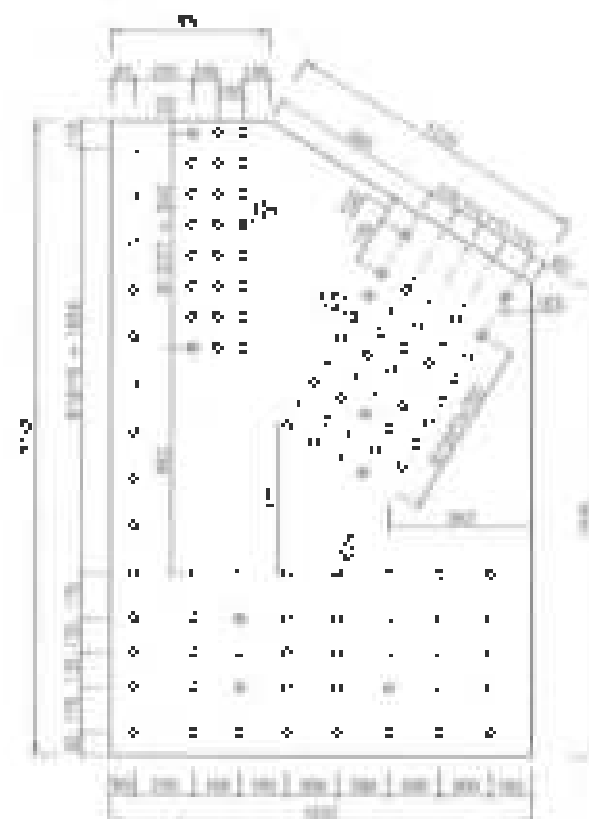


PLAN OF BRIDGE DECK CROSS BRACING
ANGLE 50x50x2 MM
PROVIDED = 12 NOS

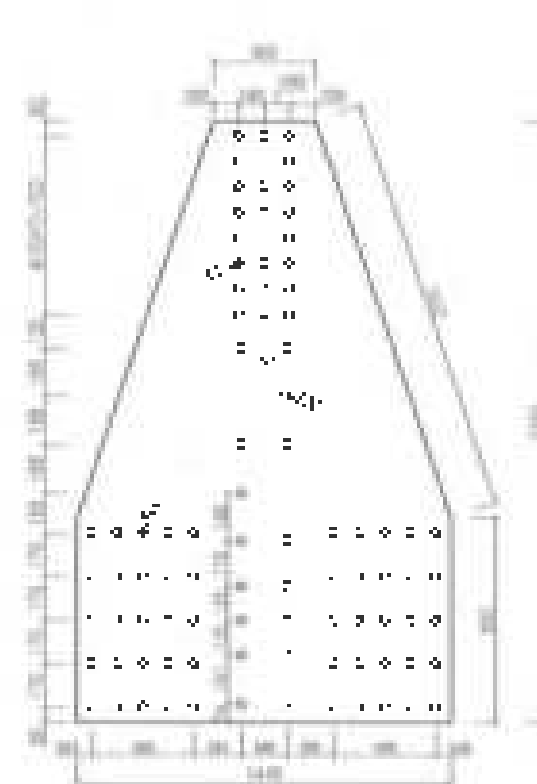
DEPARTMENT OF TRANSPORTS GOVERNMENT OF KARNATAKA DEPARTMENT OF TRANSPORTS ROADS AND TRANSPORT BANGALORE	CONSULTANT Karnataka Engineering Consultants Corp.	DESIGNER CTCE, KALKAJI BANGALORE	CONTRACT NO. 100/2000/100 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHITARA)	SECTION NO. SECTION CROSS BRACING G9 - END PANEL	DATE: 10/10/2000 BY: [Signature] CHECKED: [Signature]	SCALE: 1:100 [Signature]	NO. OF SHEETS: 10 SHEET NO. 1	DATE: 10/10/2000 BY: [Signature] CHECKED: [Signature]
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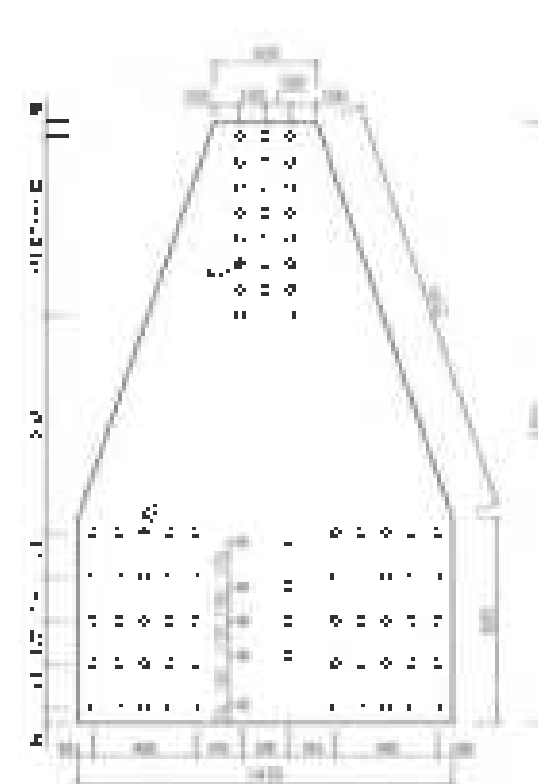
REINFORCEMENT LAYOUT - 1 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



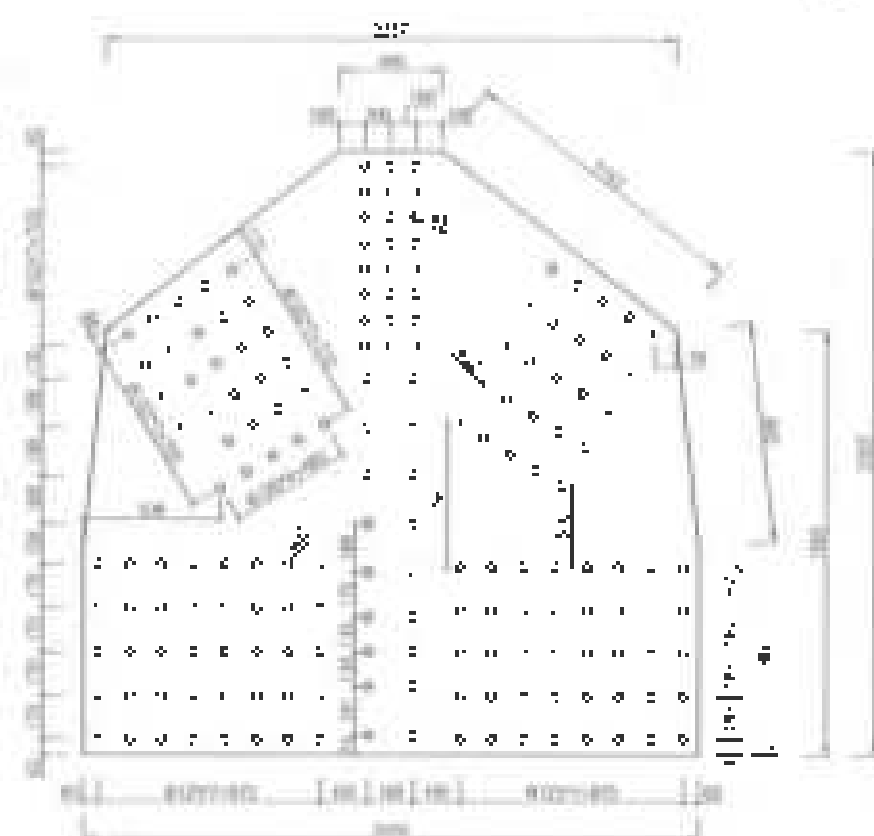
REINFORCEMENT LAYOUT - 2 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



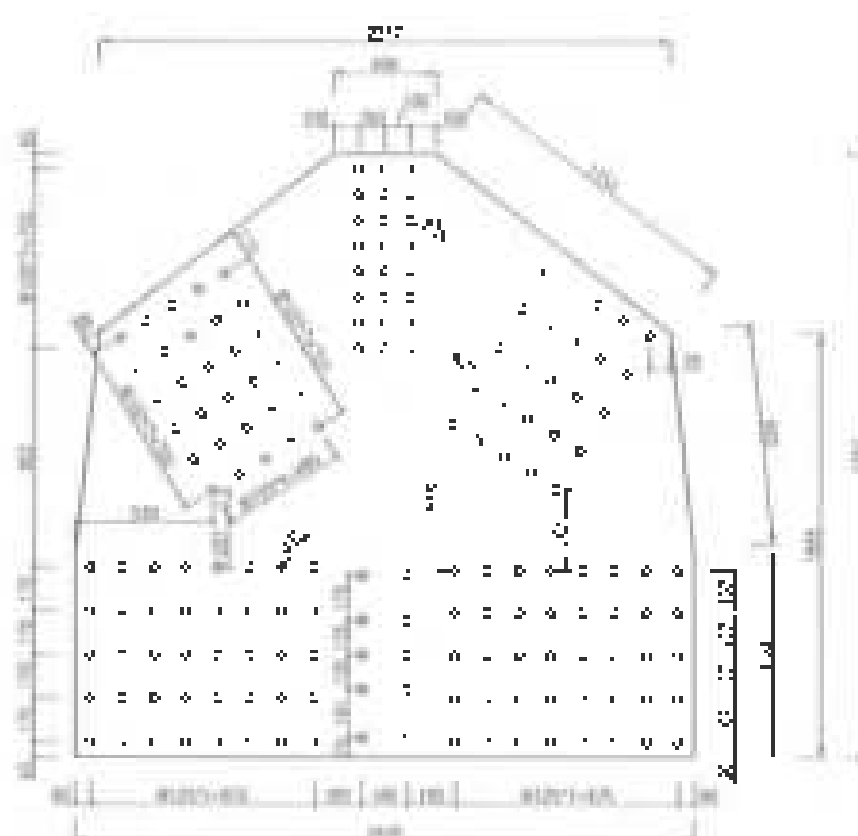
REINFORCEMENT LAYOUT - 3 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



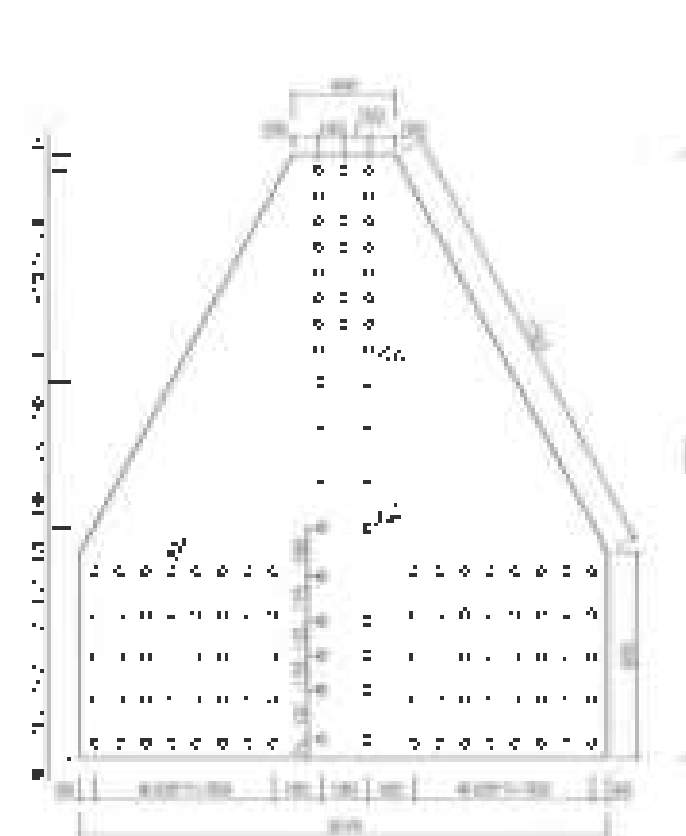
REINFORCEMENT LAYOUT - 4 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



REINFORCEMENT LAYOUT - 5 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



REINFORCEMENT LAYOUT - 6 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M



REINFORCEMENT LAYOUT - 7 (TOP)
 TOTAL LENGTH = 41.5M
 TOTAL WIDTH = 20.0M

MINISTRY OF TRANSPORT
 NATIONAL INFRASTRUCTURE
 DEPARTMENT OF ROADS
 ROAD DEVELOPMENT DIVISION
 400, SUNGATE, KATHMANDU
 NEPAL

Kurva Engineering
 Consultant Corp.

CTCE-KALIKA JV
 BALLYATAR, KATHMANDU

CONSTRUCTION OF
 KOSHI BRIDGE AND
 APPROACHES : CHATA RA

ARCHITECT DRAWING
 TOP SECTION HOUSE
 PLATE

DATE: 10/10/2020
 DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

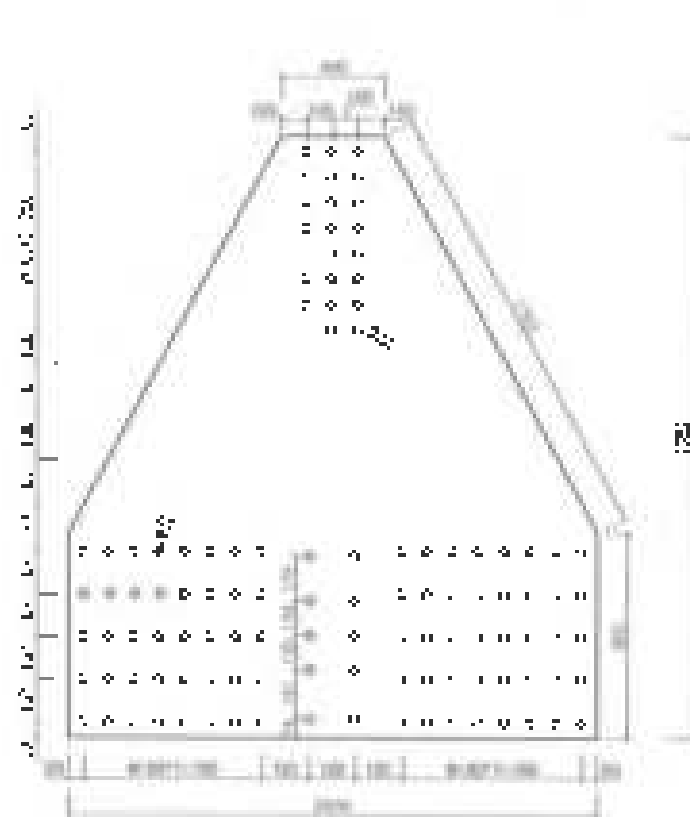
APPROVED BY: [Signature]

SCALE: 1:20

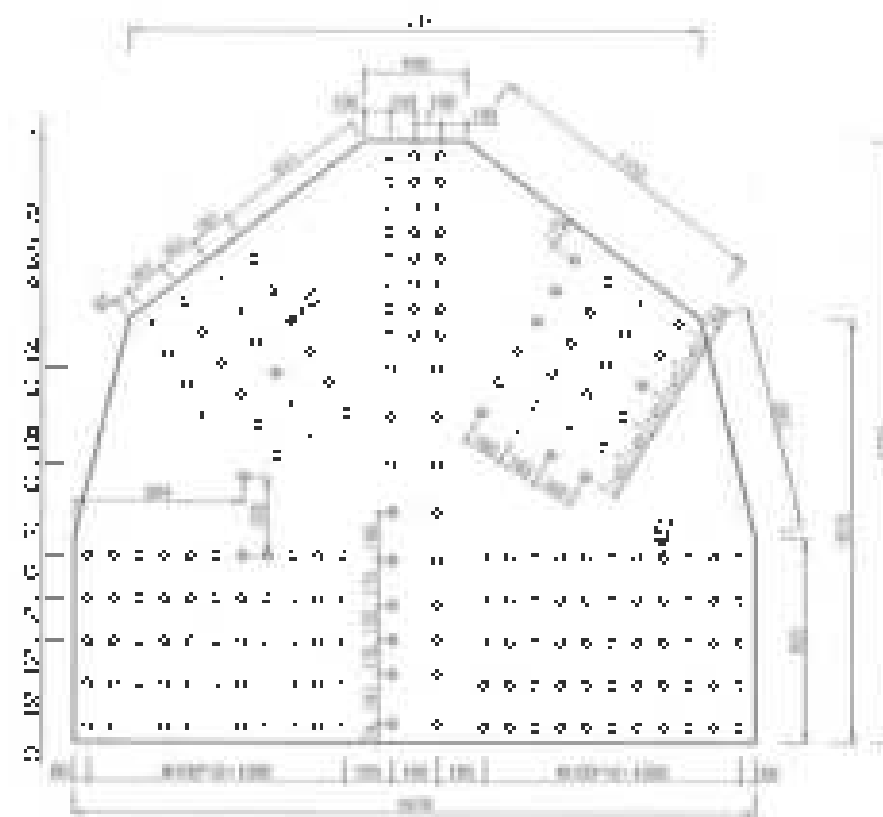
22

22

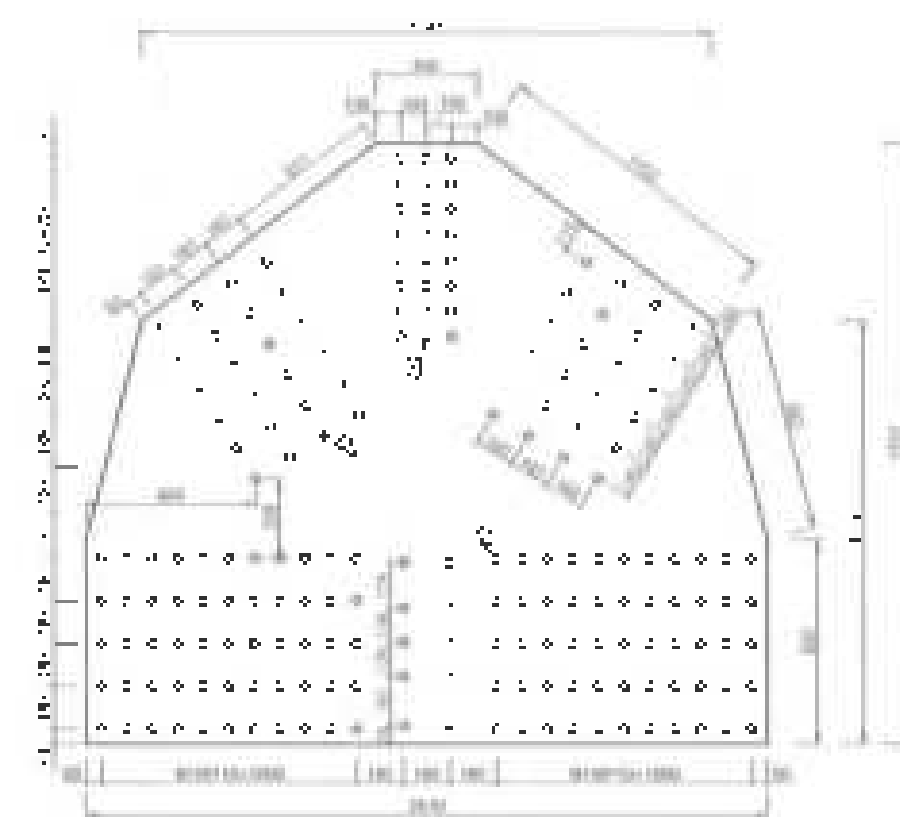
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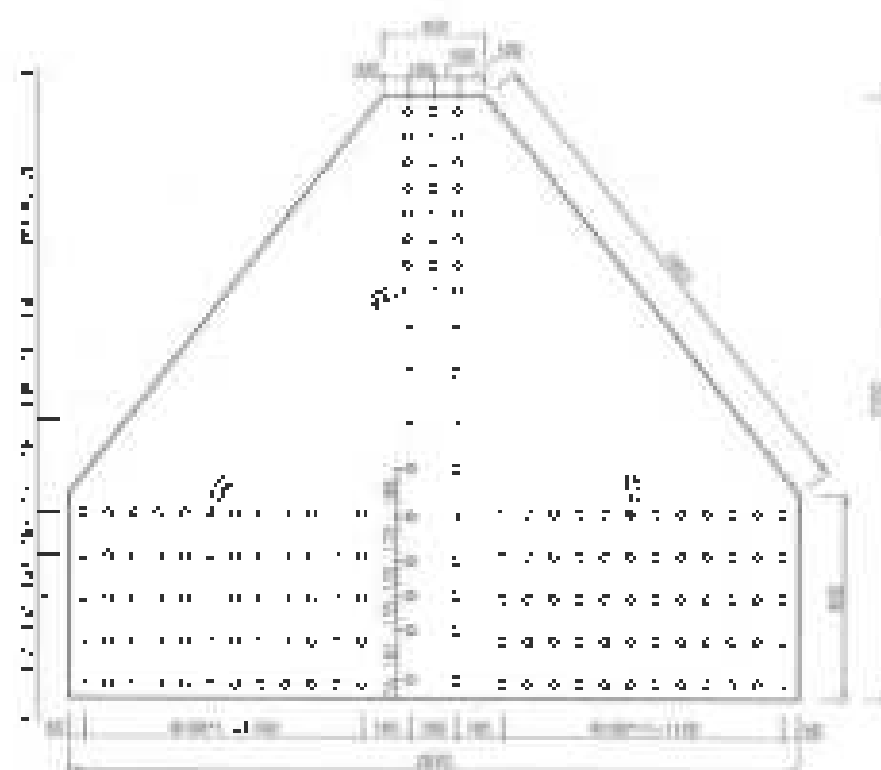
REINFORCEMENT PLAN - 1 (1/4 SECTION)
SCALE = 1:50



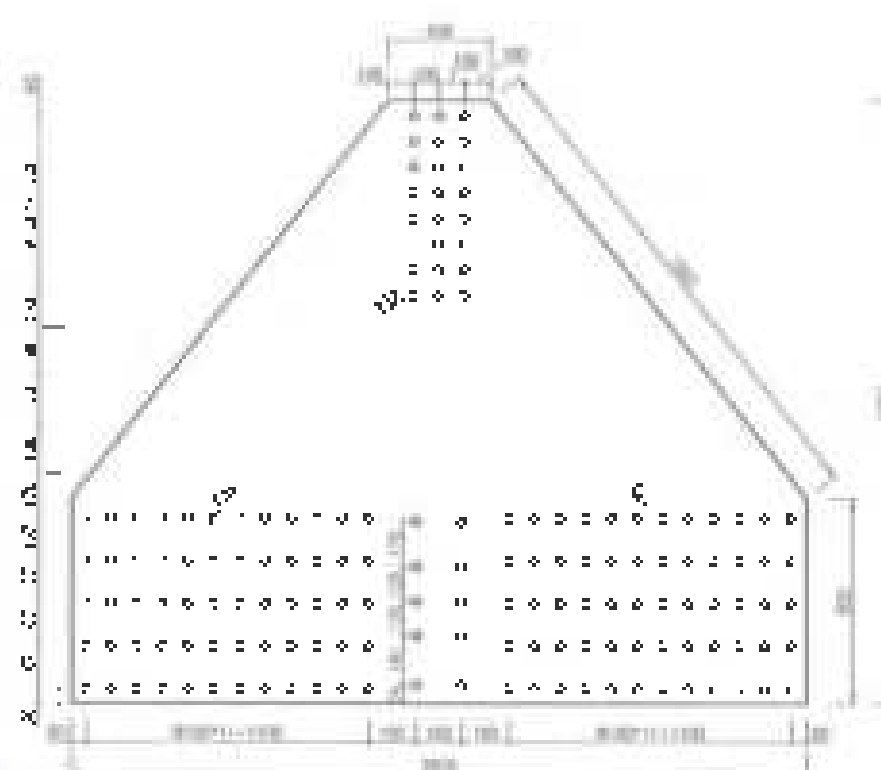
REINFORCEMENT PLAN - 2 (1/4 SECTION)
SCALE = 1:50



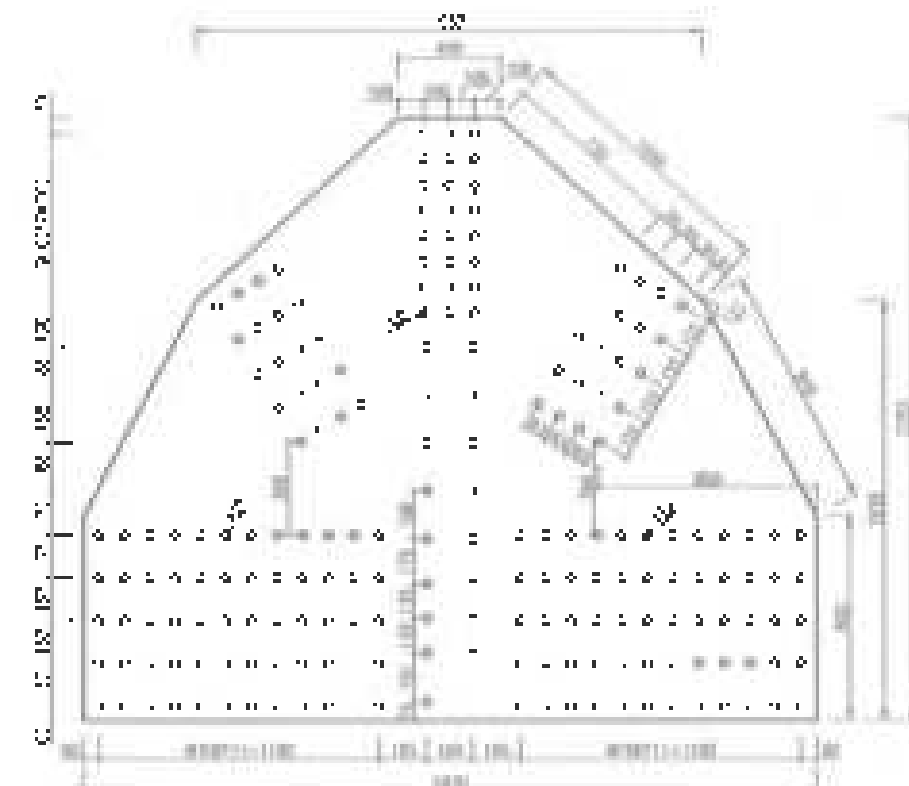
REINFORCEMENT PLAN - 3 (1/4 SECTION)
SCALE = 1:50



REINFORCEMENT PLAN - 4 (1/4 SECTION)
SCALE = 1:50



REINFORCEMENT PLAN - 5 (1/4 SECTION)
SCALE = 1:50



REINFORCEMENT PLAN - 6 (1/4 SECTION)
SCALE = 1:50

DEPARTMENT OF ROADS
KATHMANDU
KATHMANDU

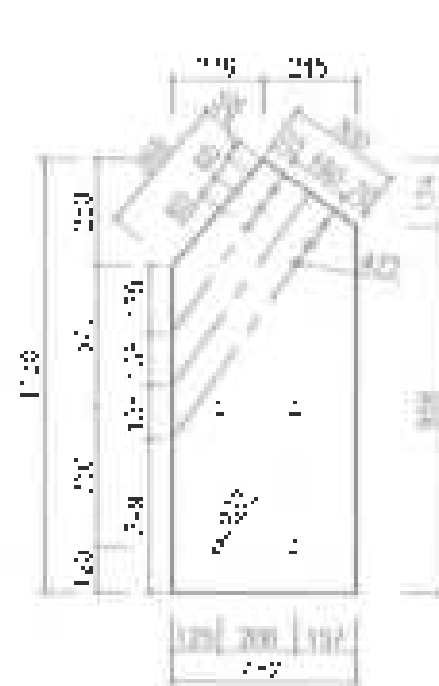
Kireu Engineering
Consultant Corp.

CTCE KALIKA TV
KATHMANDU, KATHMANDU

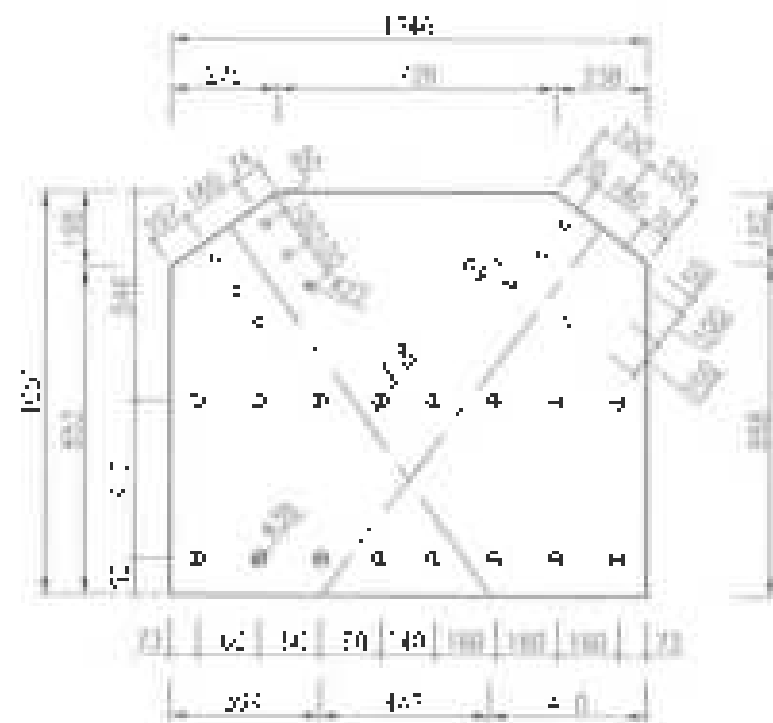
CONSTRUCTION OF
KOSHER DOE AND
APPROACHES (CHINA)

AS BUILT DRAWING
IN 1/4 SECTION SHEET
SCALE

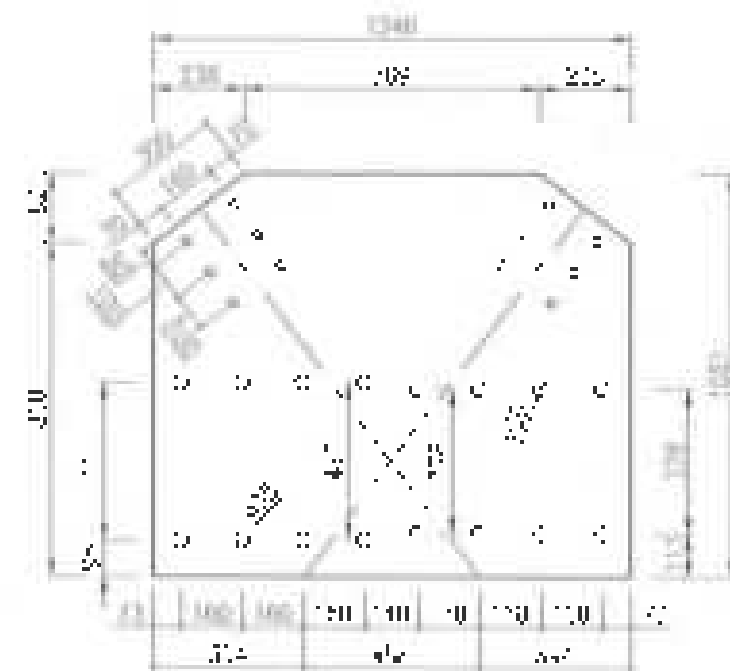
DATE	2075/01/15	BY	AS	SCALE	1:50	NO.	22
CHECKED		DATE					
APPROVED							



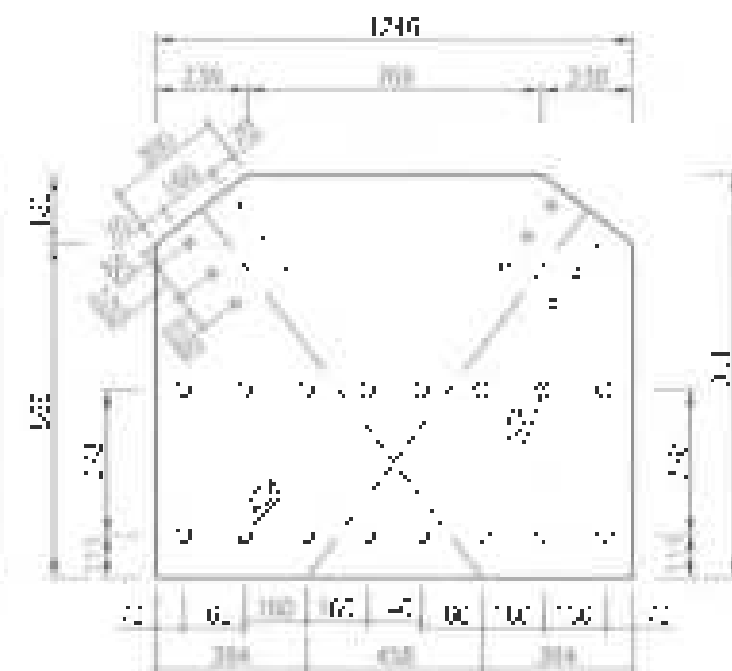
BOTTOM GUSSET PLATE - B0
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS



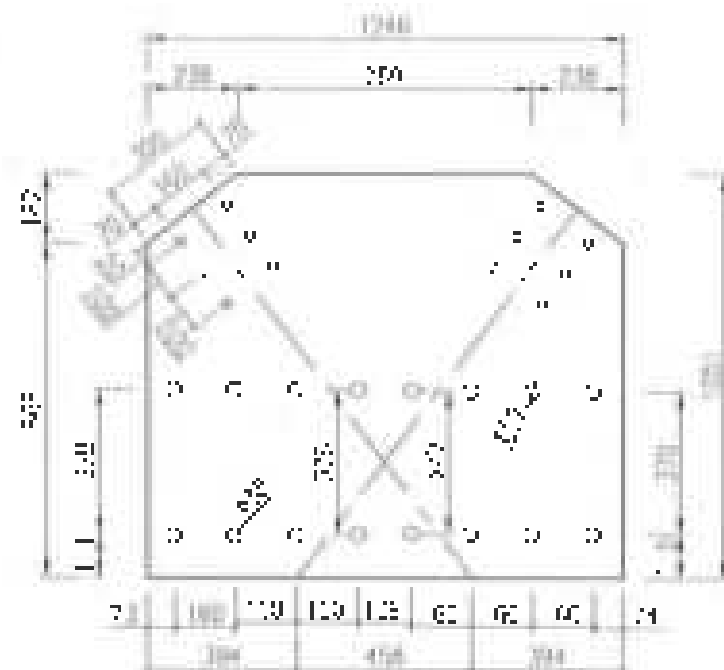
BOTTOM GUSSET PLATE - B01
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS



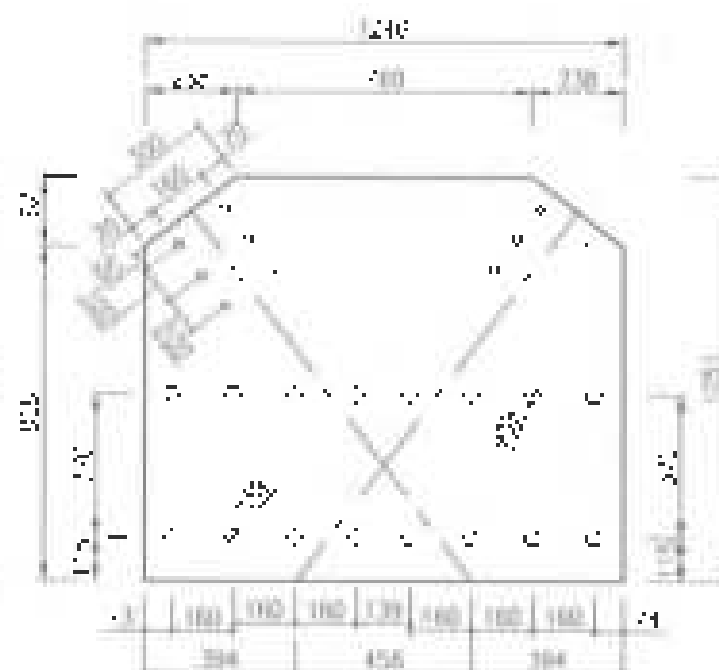
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PROVIDED = 4 NOS



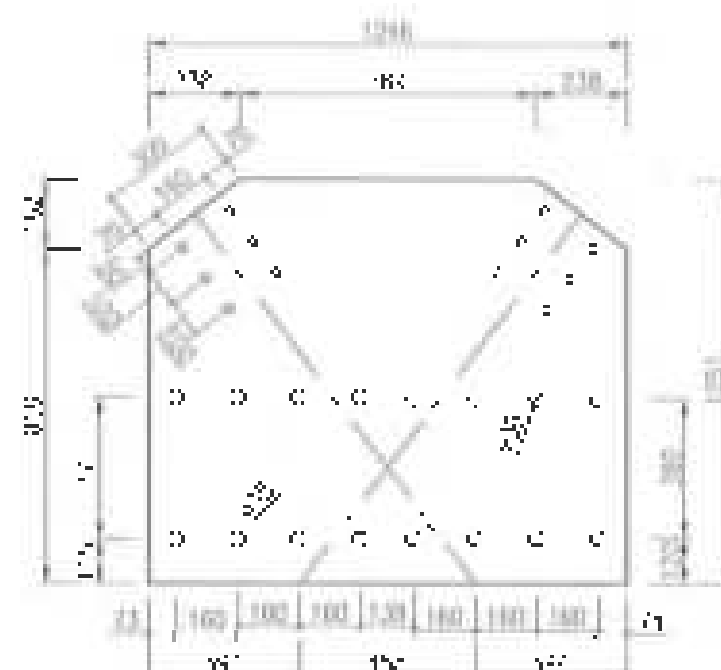
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PROVIDED = 4 NOS



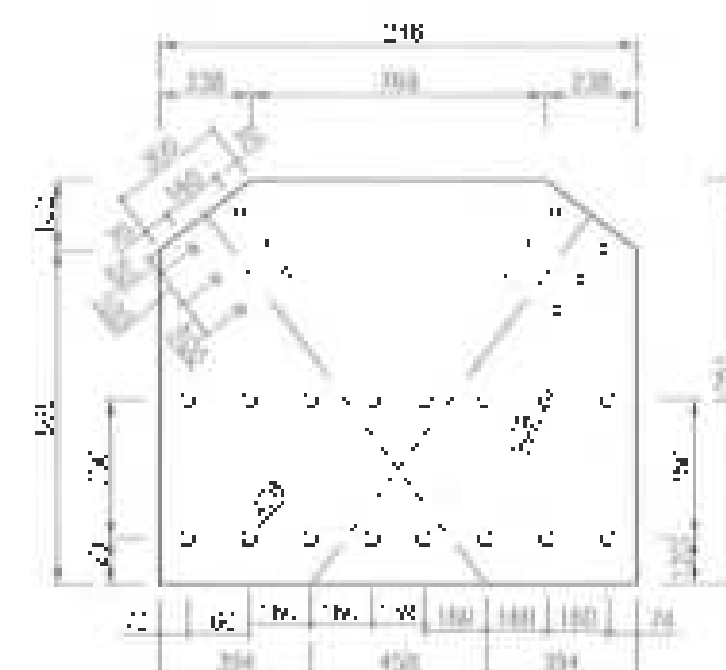
BOTTOM GUSSET PLATE - B04
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS



BOTTOM GUSSET PLATE - B05
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS



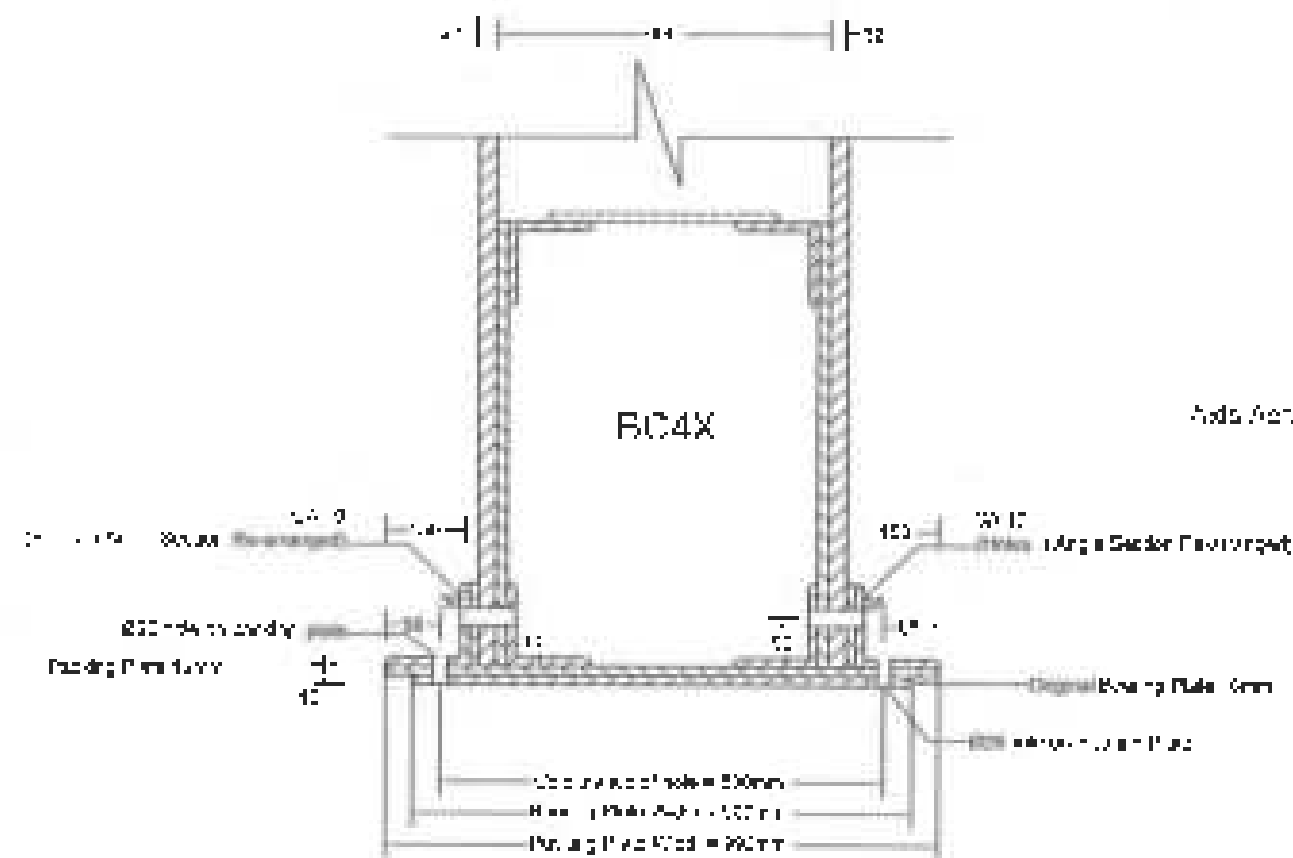
BOTTOM GUSSET PLATE - B06
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS



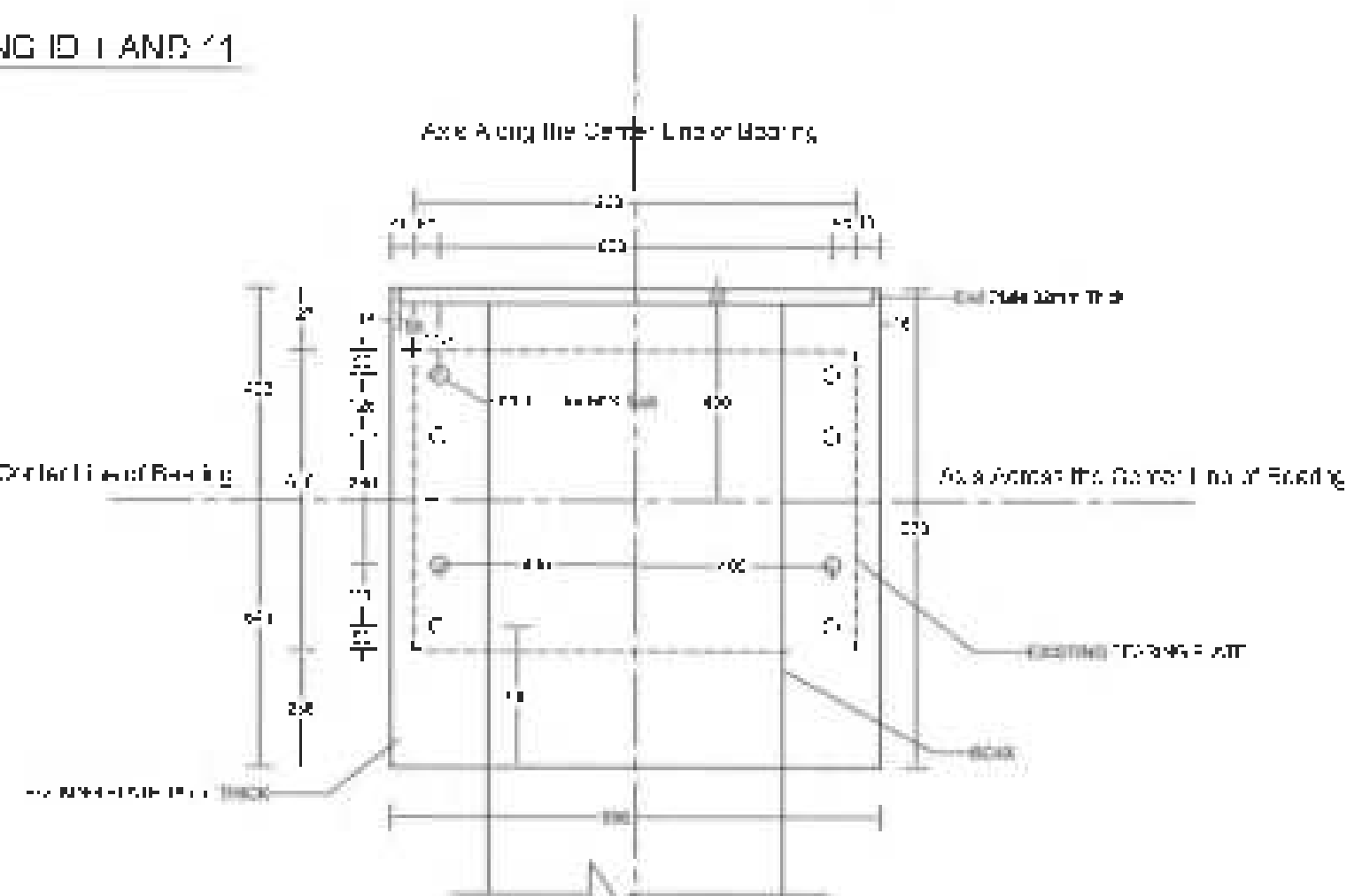
BOTTOM GUSSET PLATE - B07
PLATE 154*1246*1246 MM
PROVIDED = 4 NOS

PROJECT NO. : 100000 DEPARTMENT OF ROADS ROAD CONSTRUCTION DIVISION 100000-100000-100000	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KAUKA JV BANGKOK, THAILAND	CONTRACT NO. : EFD-100000-1 CONSTRUCTION OF KOSHIHARA AND APPROACHES : CHITARA	DRAWING NO. AS BUILT DRAWING BOTTOM GUSSET PLATE (PART 1)	DRAWING NO. 100000-100000-100000 100000-100000-100000	SCALE : 1:100	DATE : 10/10/14
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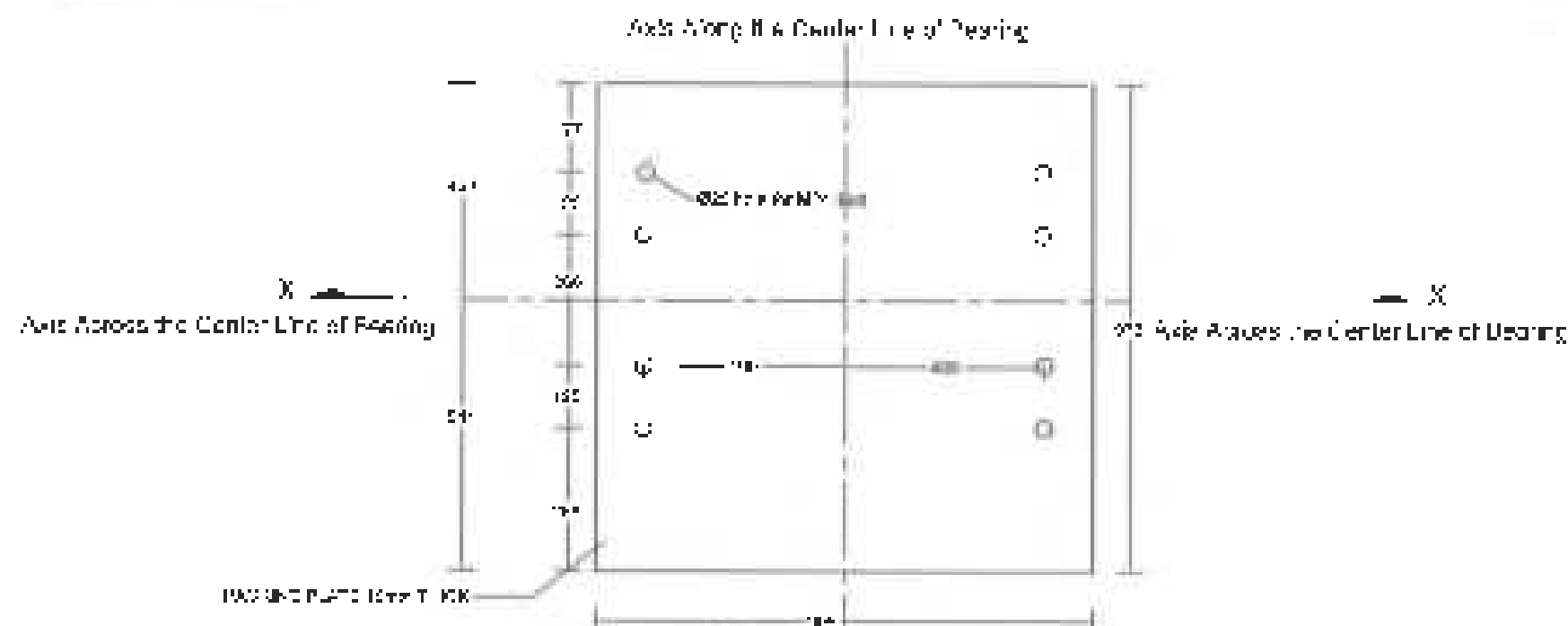
FOR BEARING ID 1 AND '1



REVISD BLAKING PLATE CONNECTION DETAILS
SECTION X-X



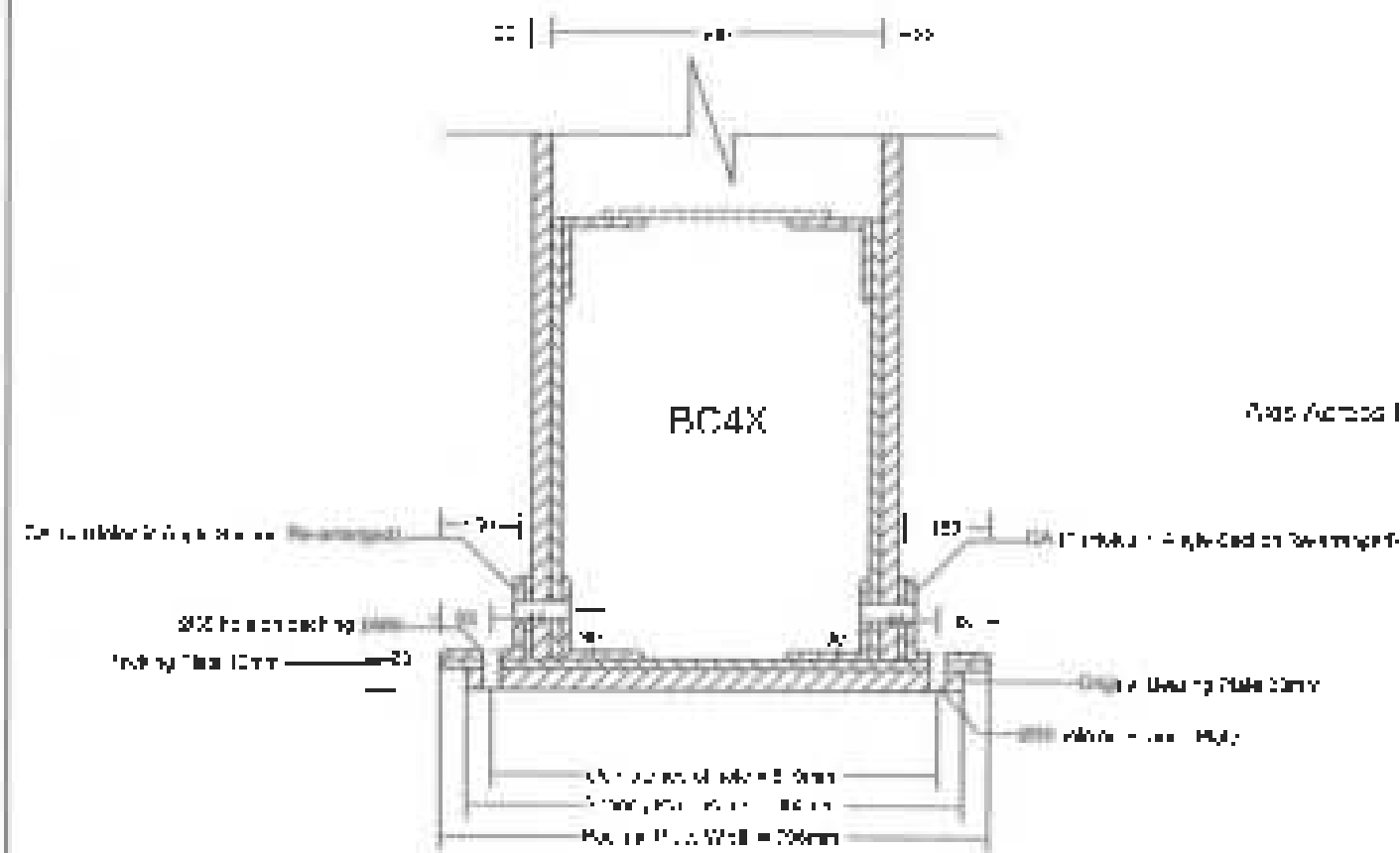
TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL.



PACKING PLATE DETAILS

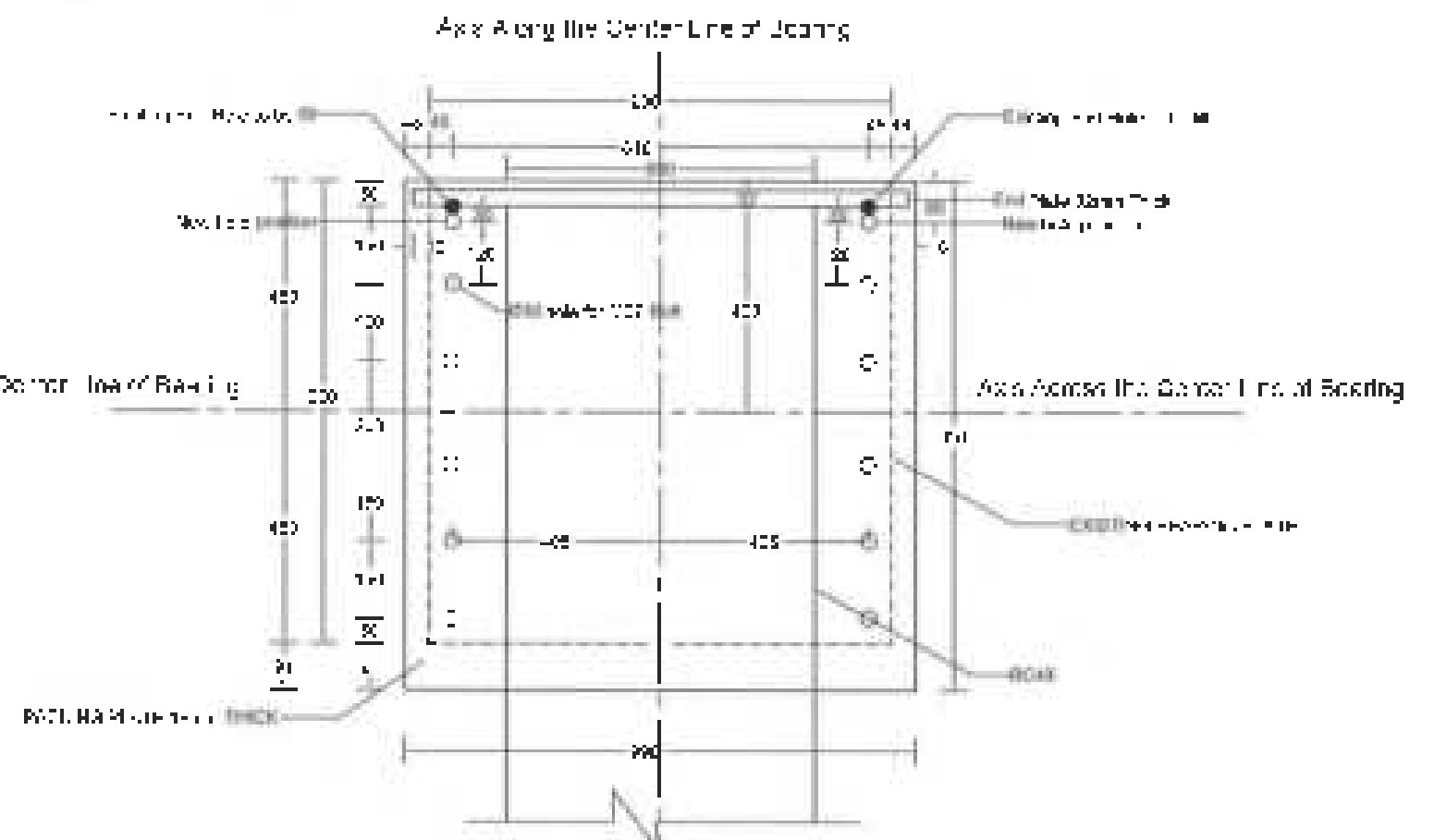
CONTRACTOR'S NAME KOREA ENGINEERING CONSULTANT CO., LTD. 100, JONGRO 3-DONG, KANGROO-KU, SEUL KOREA	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CHUNG-KALUKA LTD. 100, JONGRO 3-DONG, KANGROO-KU, SEUL KOREA	CONTRACT NO. REF-103880 CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CIATARA)	DRAWING NO. 00111 DRAWING DATE 01/08/2010 CONNECTION DETAILS	NO. 100000		DATE	01/08/2010	01/08/2010
					CHECKED BY		01/08/2010	01/08/2010	
					APPROVED BY		01/08/2010	01/08/2010	

FOR BEARING D 2 AND 12

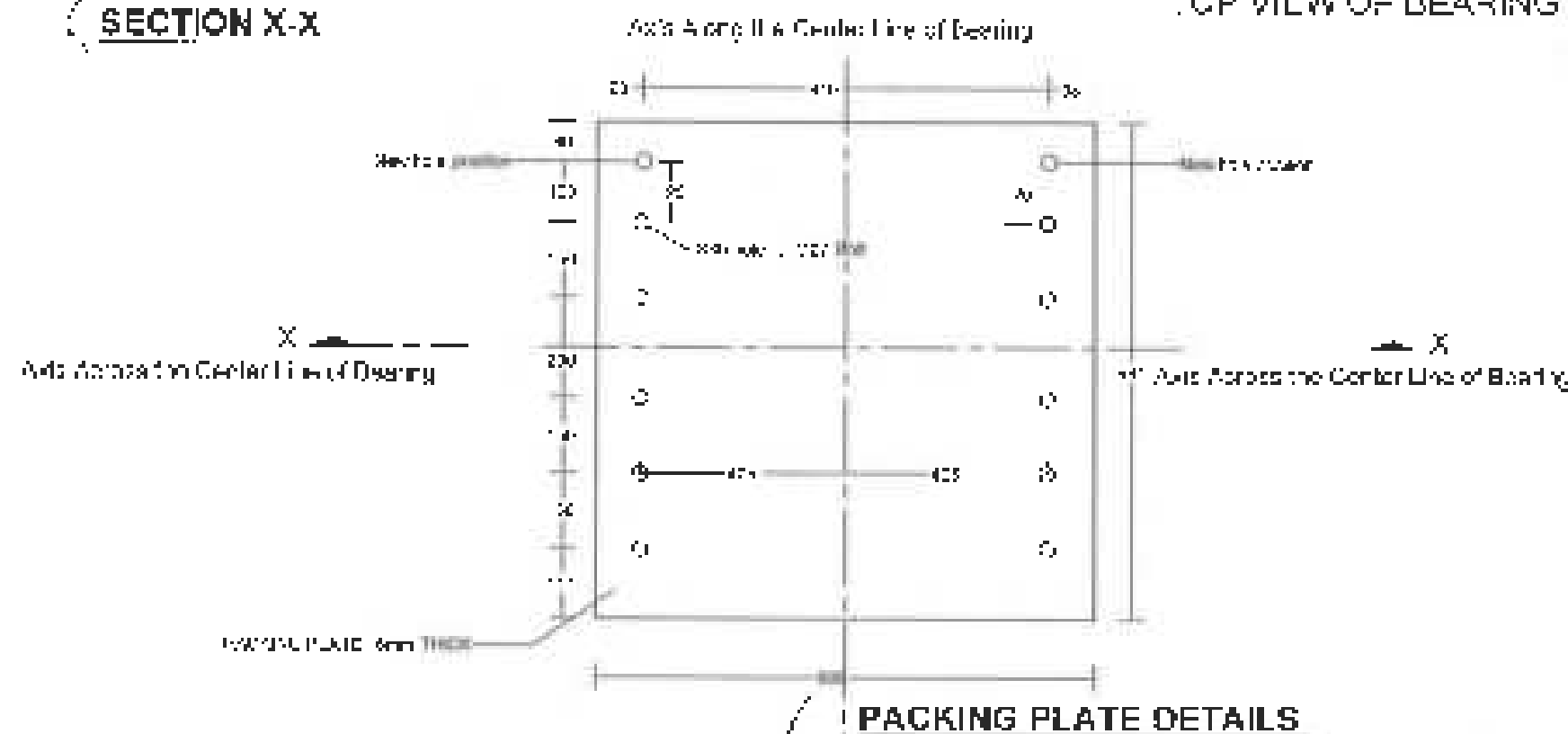


REVISED BEARING PLATE CONNECTION DETAILS

SECTION X-X



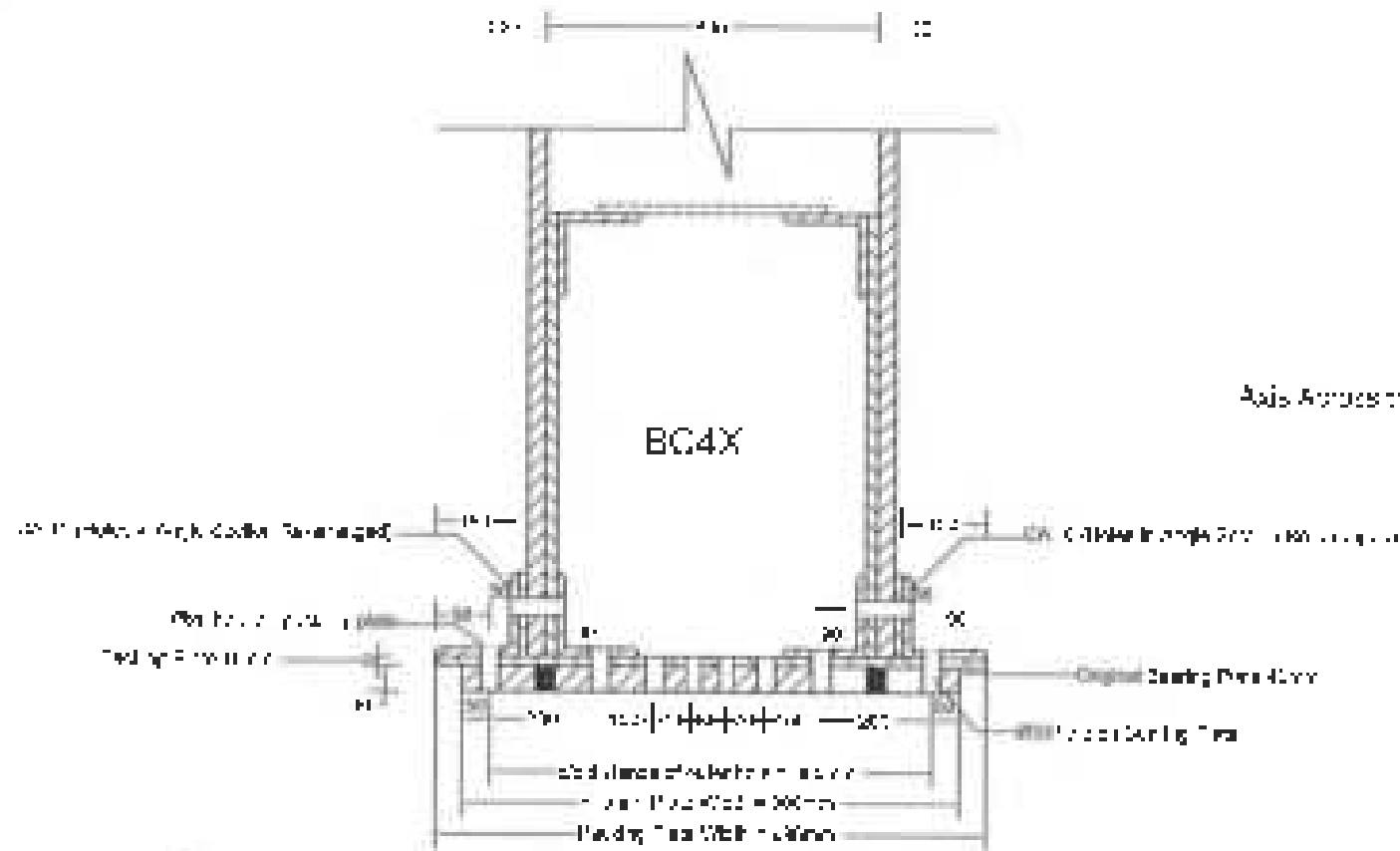
TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL



PACKING PLATE DETAILS

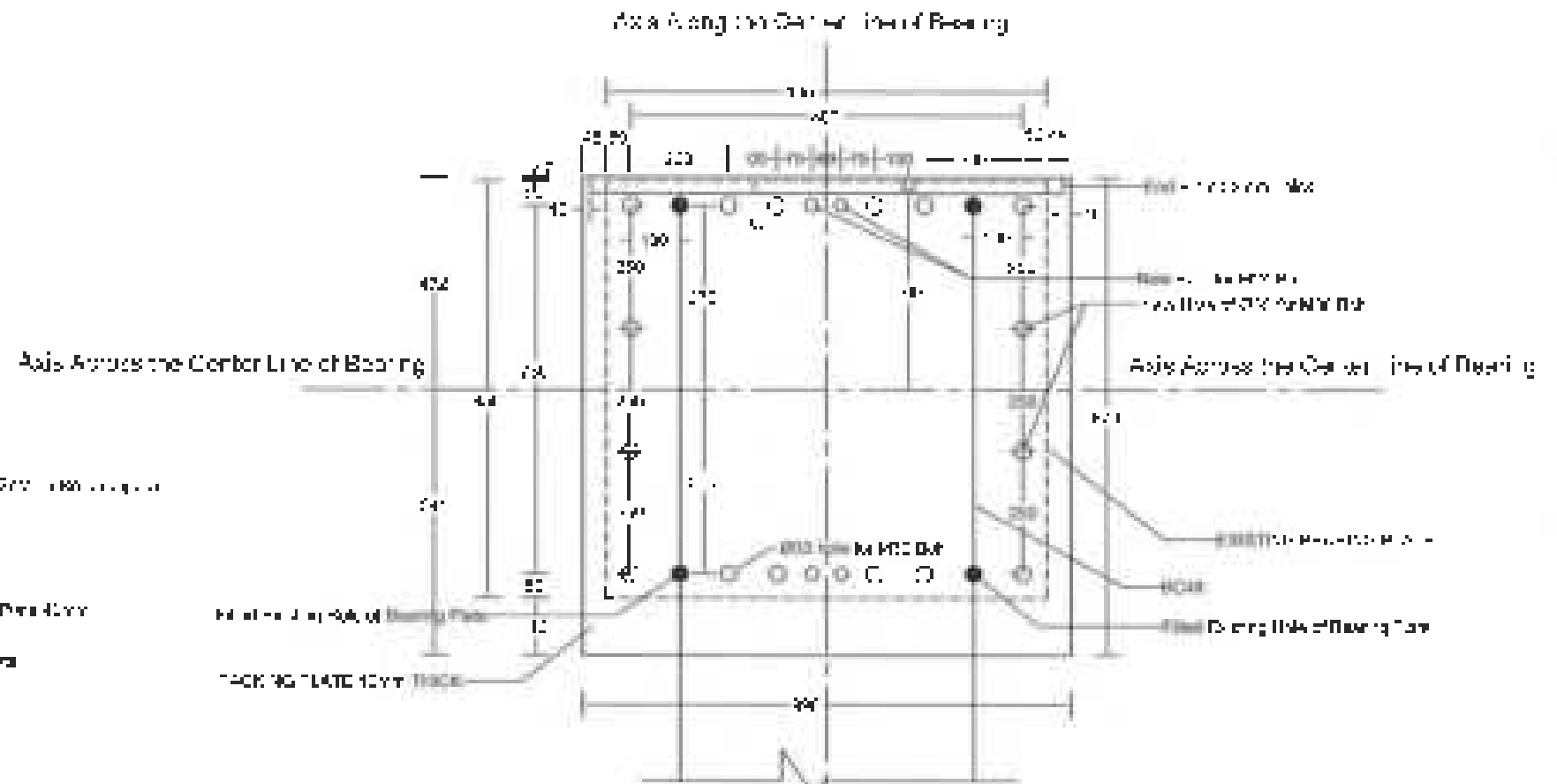
GOVERNMENT OF KERALA MINISTRY OF TRANSPORTATION AND DEPARTMENT OF ROADS ROADS AND TRANSPORTATION REGIONAL OFFICE, KERALA KOTTAYAM	DESIGNED BY Korea Engineering Consultant Corp.	APPROVED BY CHUN-KALIM JY DIRECTOR, KERALA ROAD	CONTRACT NO. KOT/2019/001 CONSTRUCTION OF KOT/2019/001 AND APPROACHES : CHARTRA	AS PER DRAWING 1. BEARING PLATE CONNECTION DETAILS	DATE 2020/01/21	SCALE 1:1	DATE 2020/01/21	BY KOT/2019/001
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FOR BEARING ID 35 AND 9

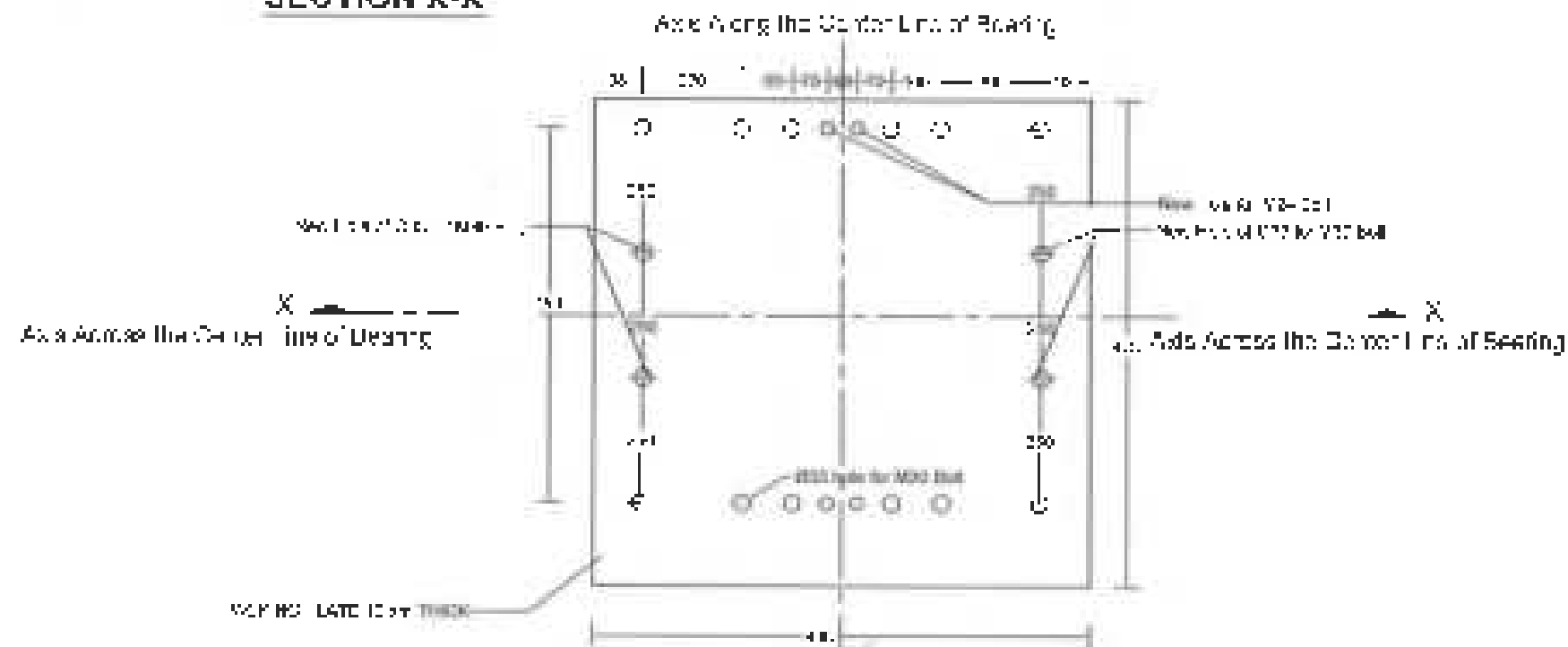


REVISED BEARING PLATE CONNECTION DETAILS

SECTION X-X



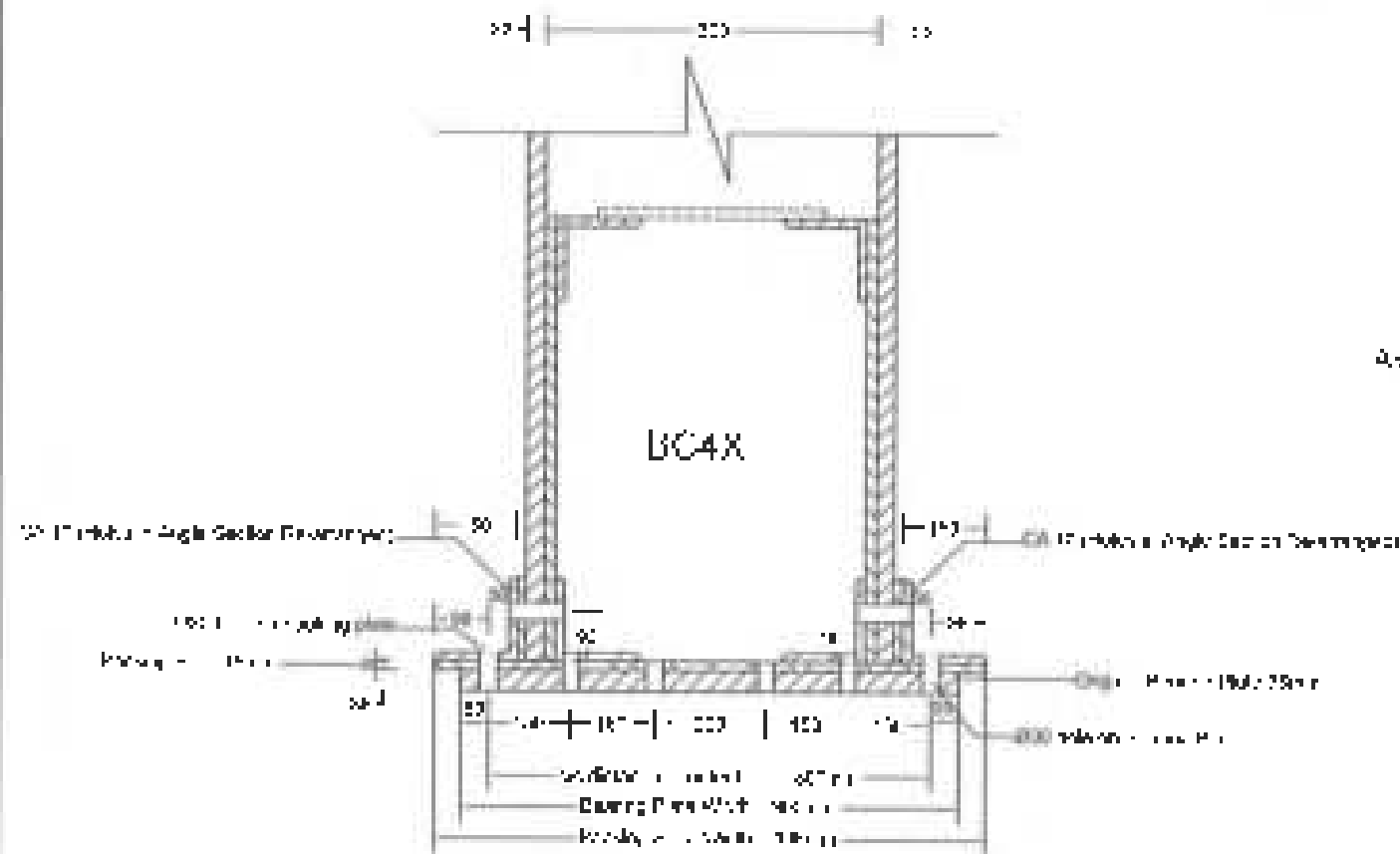
TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL



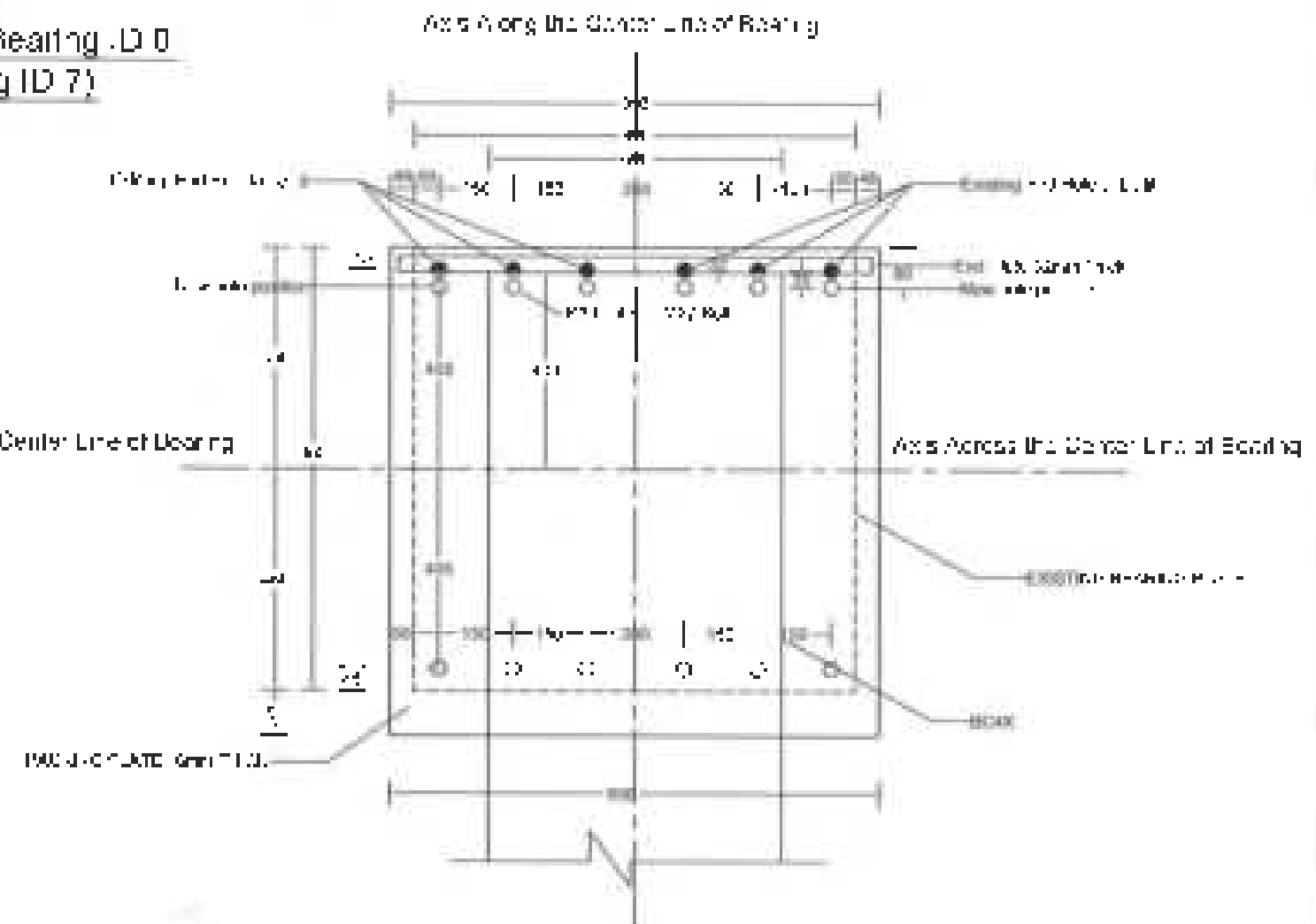
PACKING PLATE DETAILS

COMPANY'S ADDRESS: U.S. ARMY CORP. ENGINEERING DEPARTMENT OF THE ARMY 3400 CONGRESS AVENUE, SUITE 100 ARLINGTON, VIRGINIA 22204 (703) 548-1000 FAX (703) 548-1001	CLIENT: Kurek Engineering Consultant Corp.	PROJECT: CHICE-KALINIA IV RAILWAY LINE KATHMANDU	CONTRACT NO. EPR-00000000 CONSTRUCTION OF KURSH BRIDGE AND APPROACHES (CHITARA)	DRAWING NO. AS BUILT DRAWING REVISIONS: NO PLATE CONNECTION DETAILS	DESIGNED BY CHECKED BY APPROVED BY		DATE 10/10/2000 SCALE 1:100 SHEET NO. 24 TOTAL SHEETS 25
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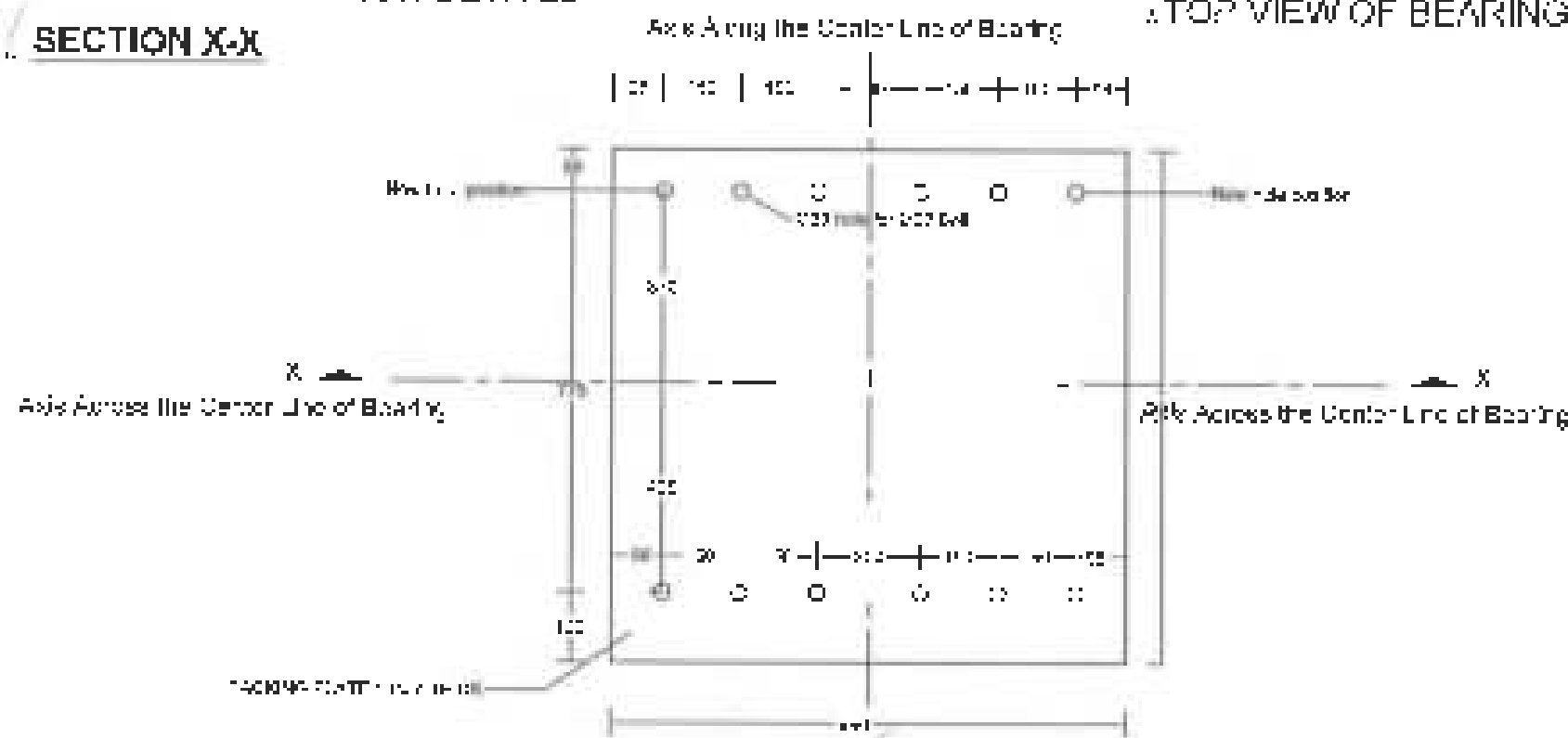
FOR BEARING ID: 7
(Rotating previous Longitudinal Bearing ID 0
to make Transverse Bearing ID 7)



REVISED BEARING PLATE CONNECTION DETAILS
SECTION X-X



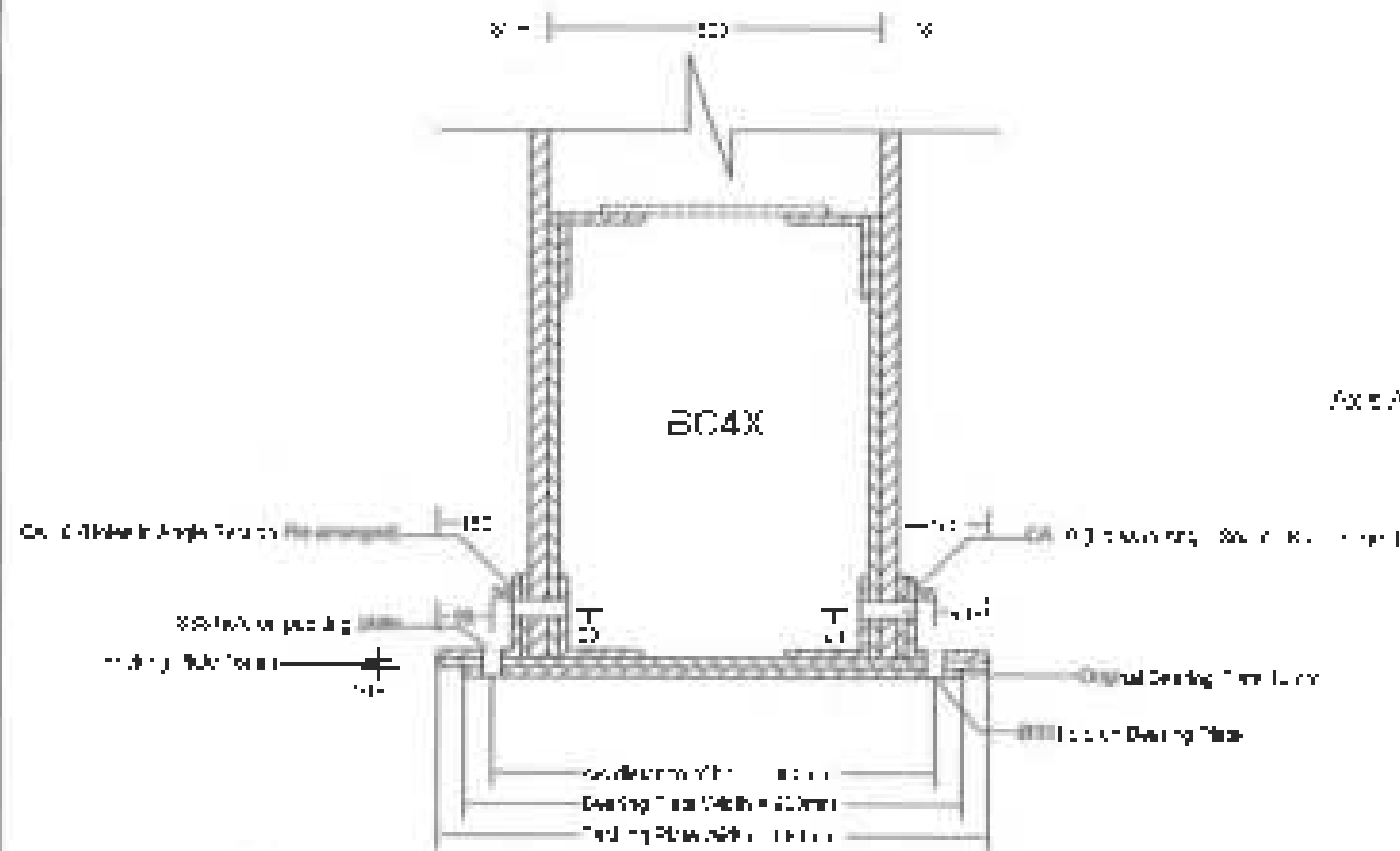
TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL.



PACKING PLATE DETAILS

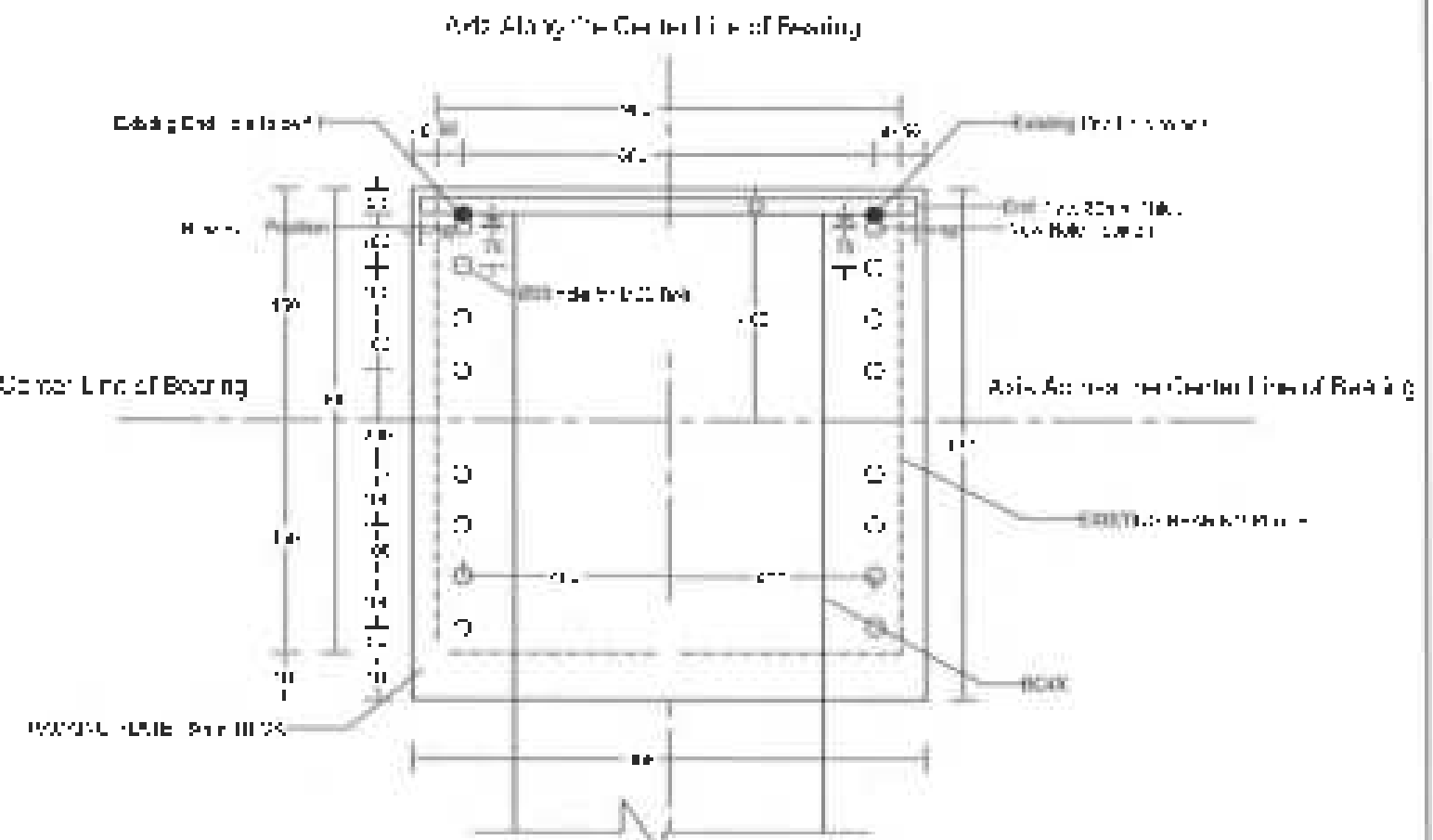
PROJECT: KATHMANDU KATHMANDU DEPARTMENT OF TRAVEL LOADS: 1000000 KATHMANDU KATHMANDU KATHMANDU	DESIGNER: Korea Engineering Consulting Corp.	CLIENT: GOVT. OF KATHMANDU KATHMANDU	CONTRACT NO. 1000000000 CONSTRUCTION OF KATHMANDU BRIDGE AND APPROACHES (KATHMANDU)	PROJECT NO. 1000000000 REVISED BEARING PLATE CONNECTION DETAIL	DATE: 10/10/2020 BY: [Signature] CHECKED: [Signature]	SCALE: 1/2\"/>	NO. OF SHEETS: 1	DATE: 10/10/2020 BY: [Signature] CHECKED: [Signature]	PROJECT NO. 1000000000 KATHMANDU KATHMANDU KATHMANDU
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FOR BEARING ID 4.E,8 AND 10

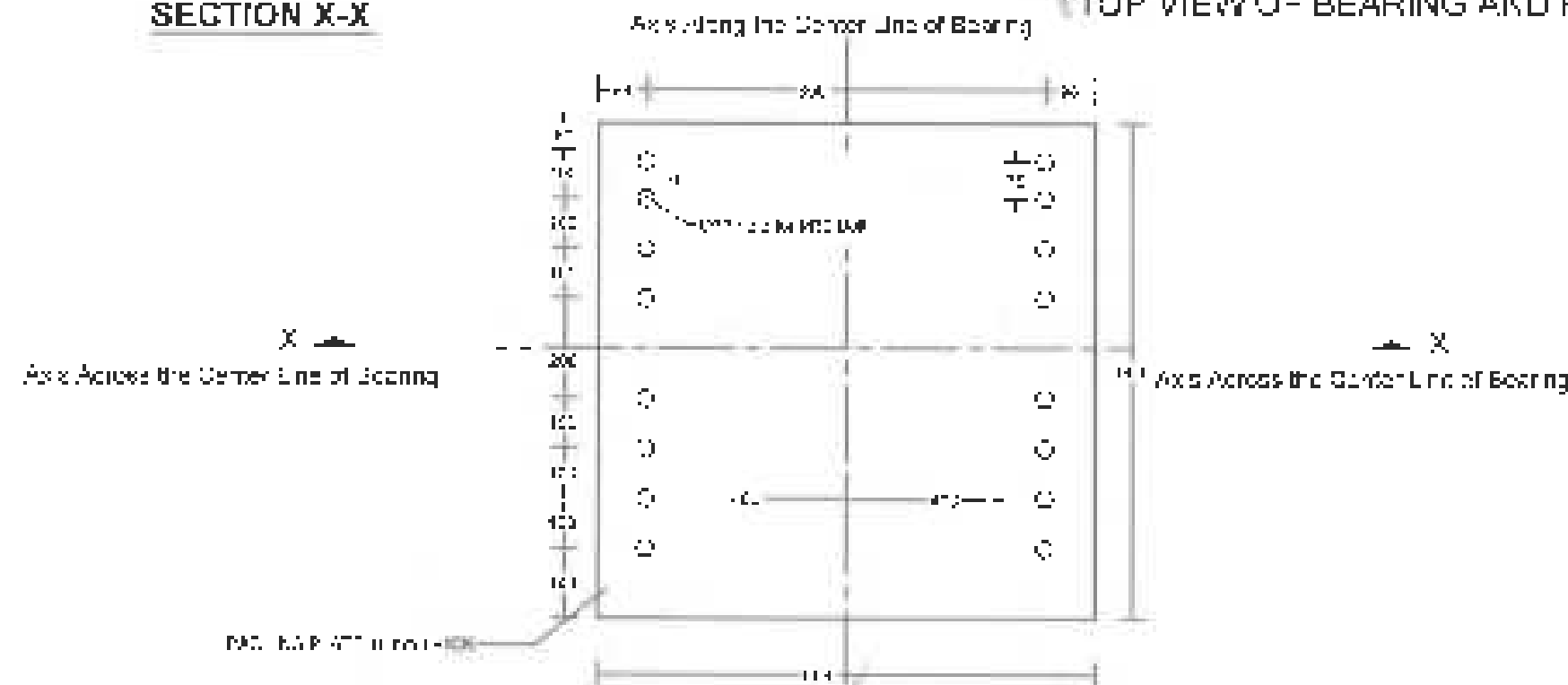


REVISED BEARING PLATE CONNECTION DETAILS

SECTION X-X

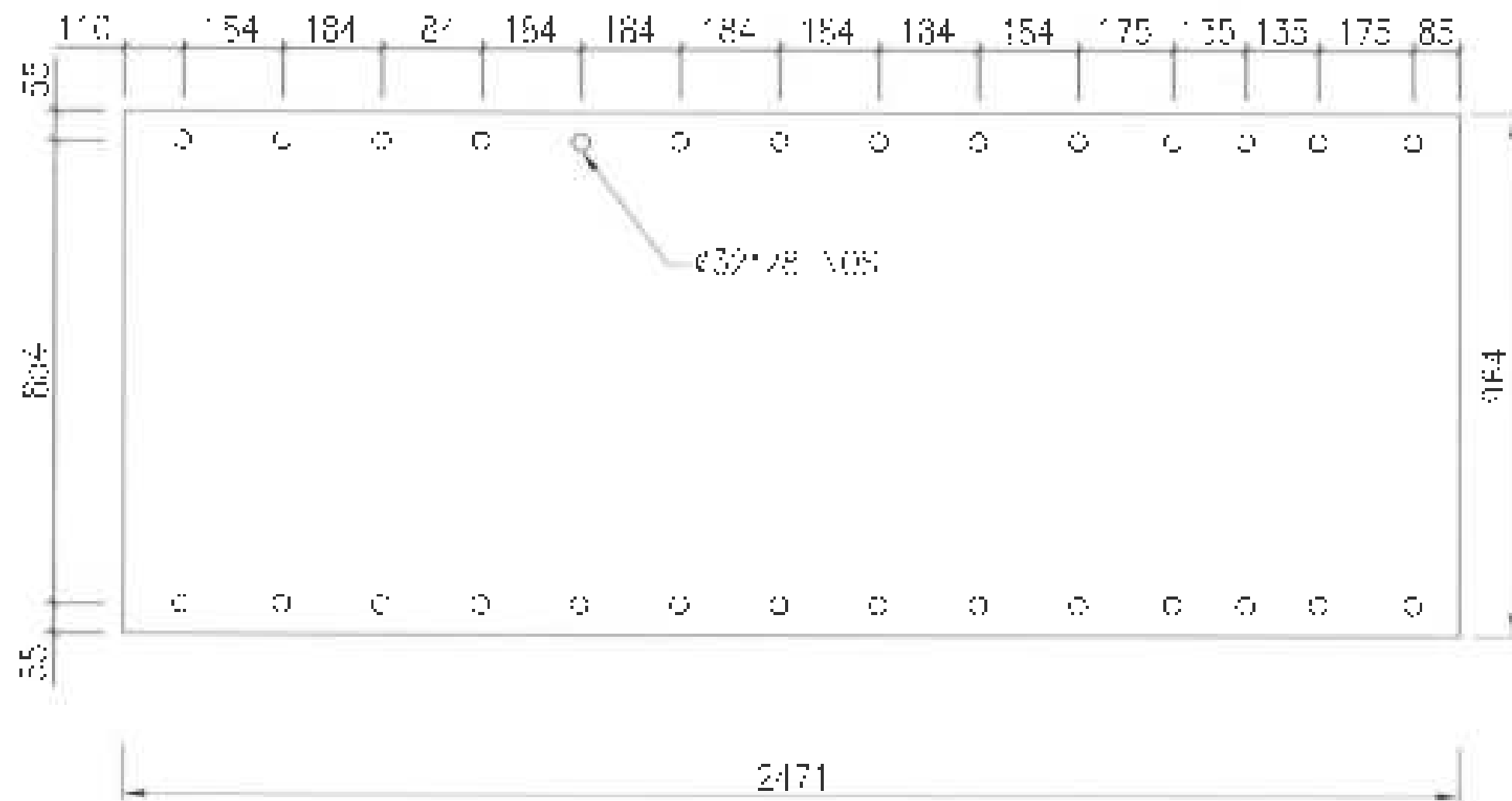


TOP VIEW OF BEARING AND PACKING PLATE CONNECTION DETAIL



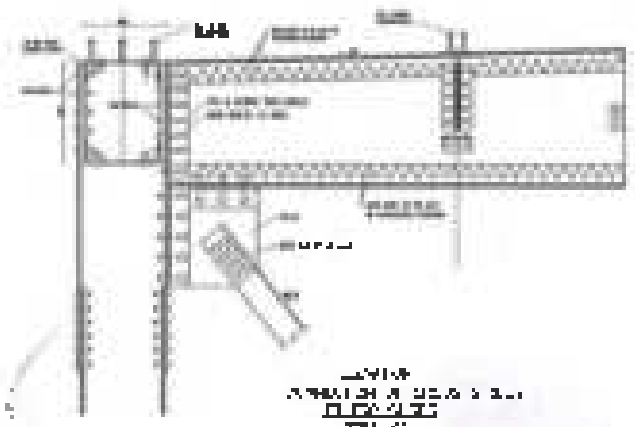
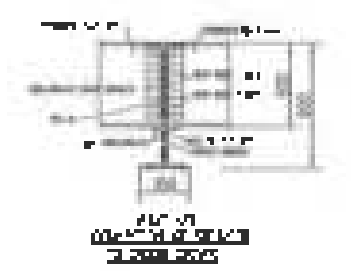
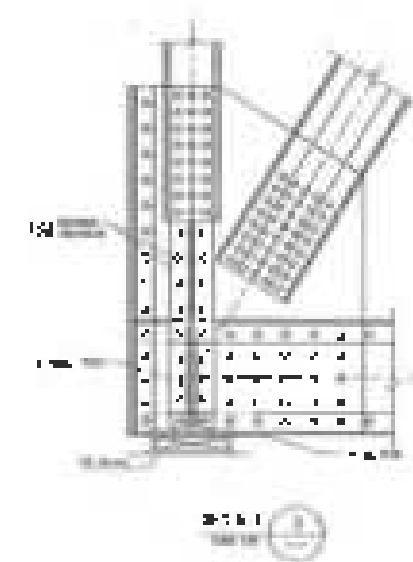
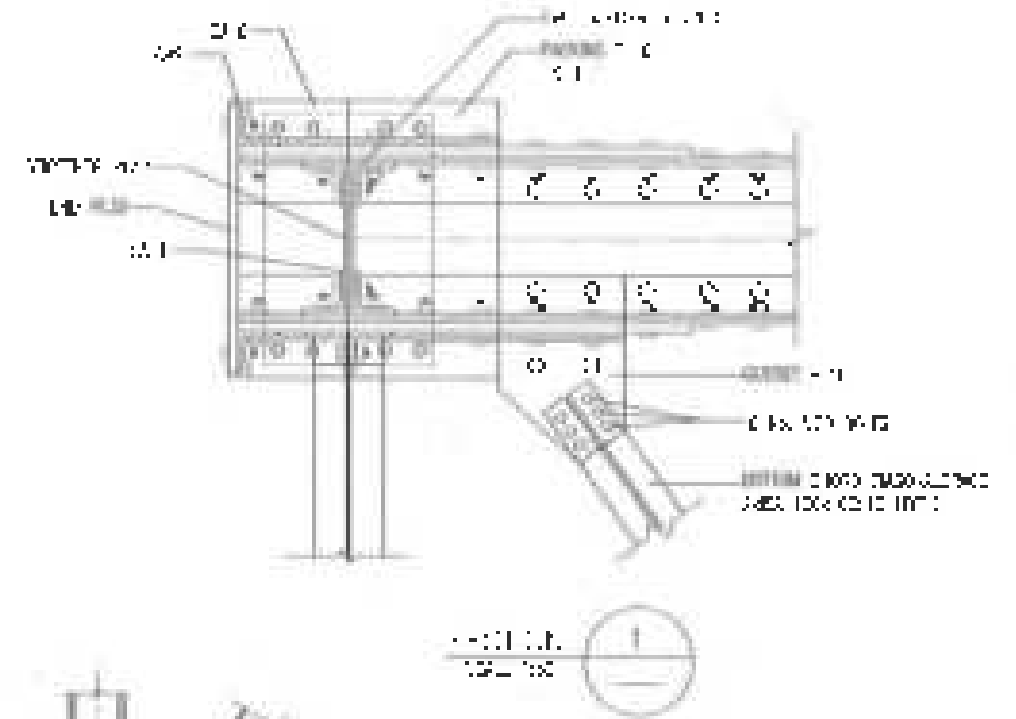
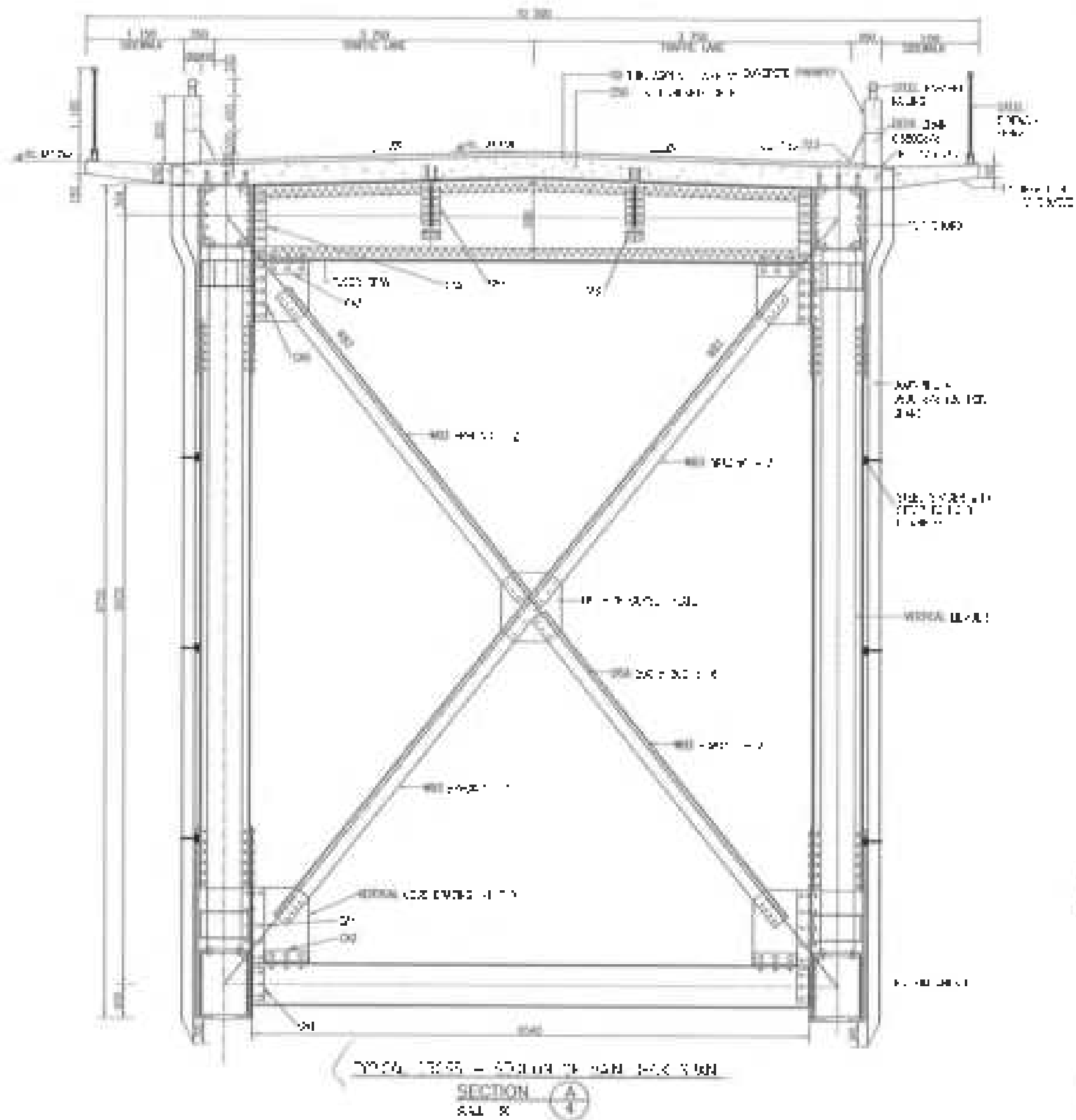
PACKING PLATE DETAILS

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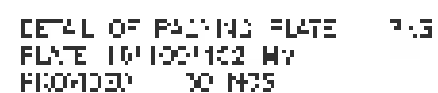
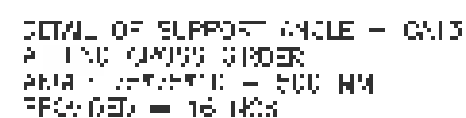
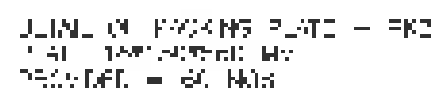
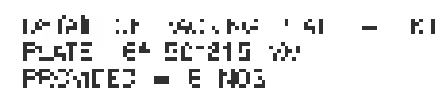


DETAIL OF END PLATE - EP
 PLATE 32*964*237 MM
 PROVIDED = 4 NOS

WORKING DRAWING DEPARTMENT OF ROADS KATHMANDU 1/20/2019	CONTRACTOR Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KALIKA JV BALLYATAL, KATHMANDU	CONTRACTING FIRM/COMPANY CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES ; CHATARA	DRAWING NO. AS-BUILT DRAWING END COVER PLATE	DATE 20/10/2019 25/10/2019	SCALE 1:20	SHEET NO. 25
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CONTRACT NO. 10/2001 NATIONAL HIGHWAY AUTHORITY DEPARTMENT OF ROADS TRANSPORTATION DIVISION KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	CONSULTANT Korea Engineering Consultant Corp.	PROJECT NAME KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT LOCATION KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT DESCRIPTION KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT DRAWING KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT SCALE KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT DATE KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT NO. KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT	PROJECT SHEET NO. KOSI BRIDGE PROJECT KOSI BRIDGE PROJECT
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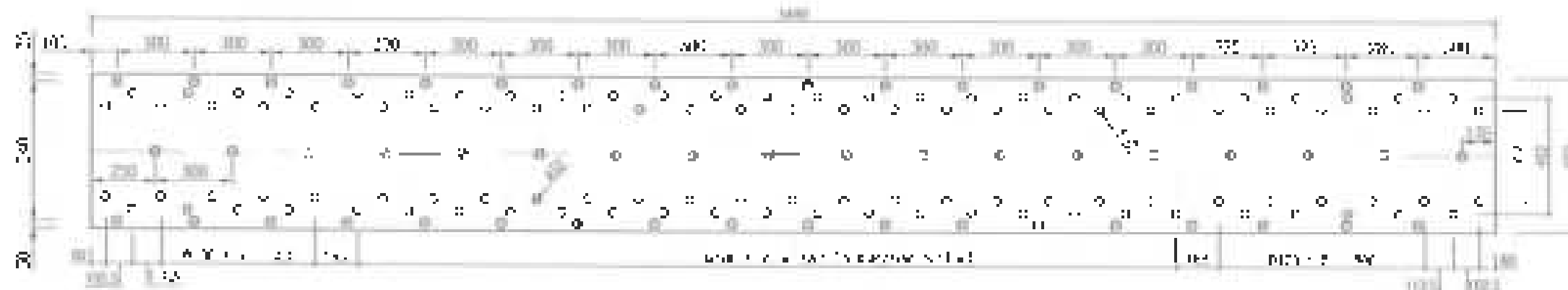
1. PROJECT: CONSTRUCTION OF BRIDGE ON THE KOSHI RIVER AT DEPARTMENT OF ROADS KATHMANDU, NEPAL 2. CLIENT: KOSHI DEVELOPMENT CORPORATION 3. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 4. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 5. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 6. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 7. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 8. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 9. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 10. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 11. PROJECT NO.: KDC/BRIDGE/001/2020	KOSHI DEVELOPMENT CORPORATION KATHMANDU, NEPAL 12. PROJECT NO.: KDC/BRIDGE/001/2020
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C Detail of Shear Connector stud bolt measurement TC2-X

TOP COVER PLATE OF TOP G-CORR = TC2-X
 PLATE 16 * 3000 * 5450 MM
 PROVIDED = 4 NOS

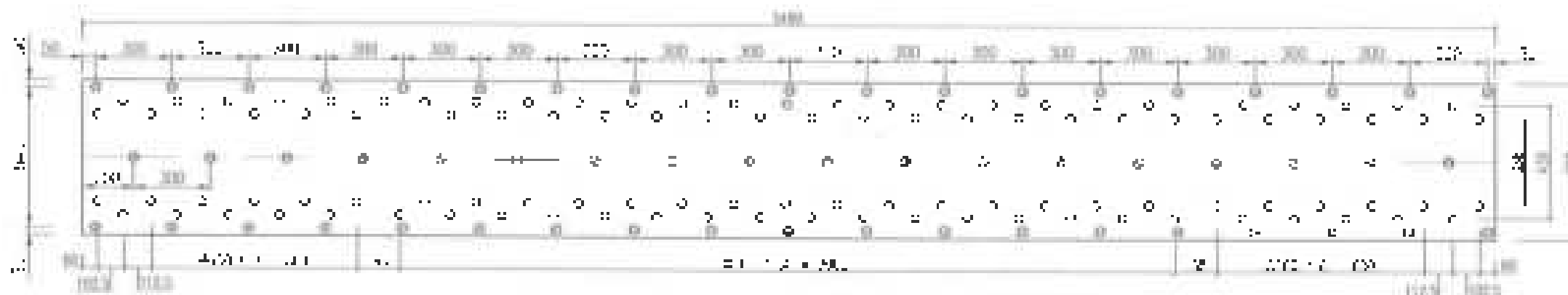
D



D Detail of Shear Connector stud bolt measurement TC2

TOP COVER PLATE OF TOP G-CORR = TC2
 PLATE 16 * 3000 * 5450 MM
 PROVIDED = 4 NOS

E

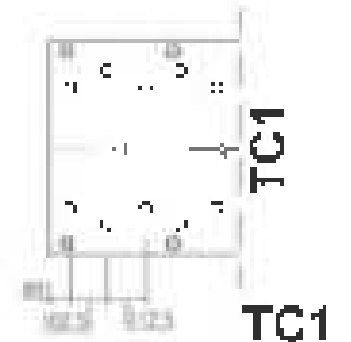


E Detail of Shear Connector stud bolt measurement TC1

TOP COVER PLATE OF TOP G-CORR = TC1
 PLATE 16 * 3000 * 5450 MM
 PROVIDED = 8 NOS

TC1

F



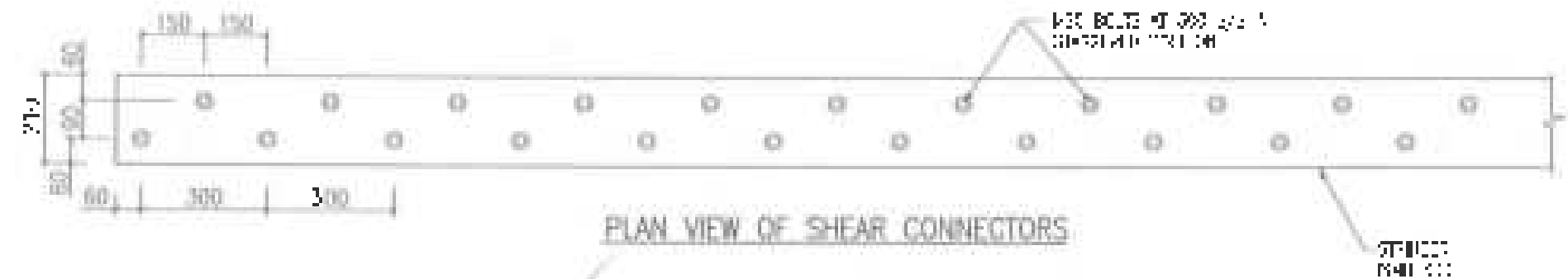
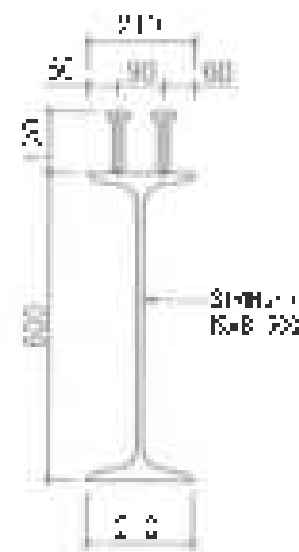
C

TC1

TC1

bridge

PROJECT NAME Koshi Bridge and Approach (Chalara)	CONSULTANT Korea Engineering Consultant Corp.	CLIENT CTCE KATHMANDU BAHUBAL, KATHMANDU	PROJECT TITLE CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (CHALARA)	DRAWING NO. SHEET 27 OF 27	DATE 2073/05/27	SCALE 1:50	SHEET NO. 27
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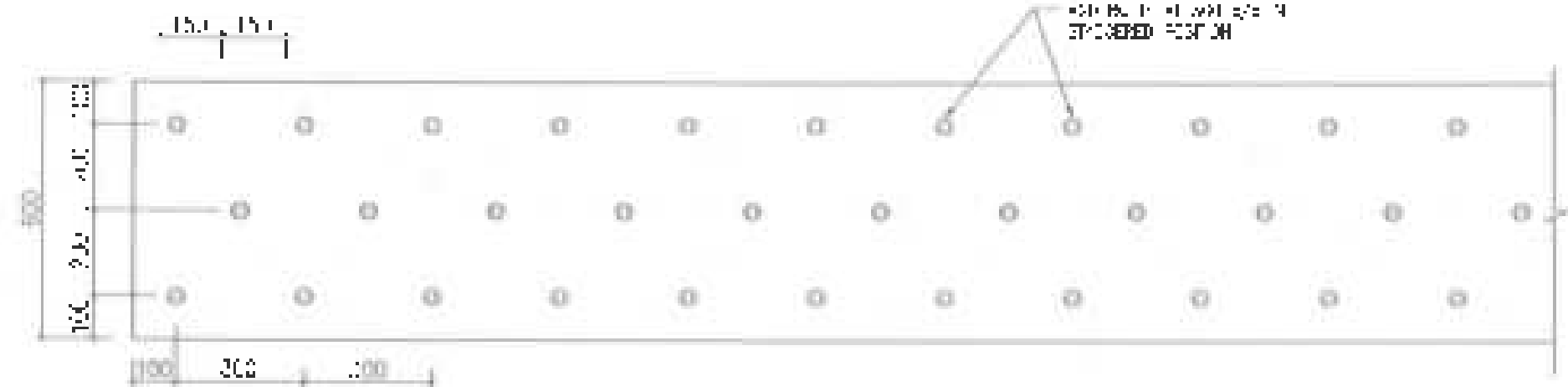
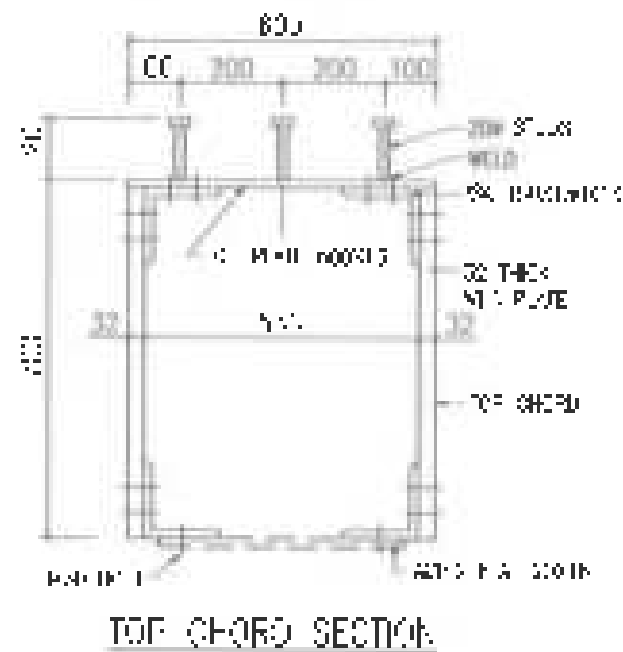


PLAN VIEW OF SHEAR CONNECTORS

DETAIL OF SHEAR CONNECTOR STUD
 STUD 720x120 mm Long, PROVIDED - 12 NOS
 (For both stringer beam)

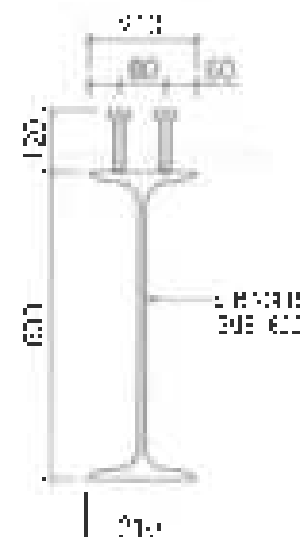


GOVERNMENT OF NEPAL MINISTRY OF FEDERAL PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT OF ROADS ROAD CONSTRUCTION SECTION 4/20 Thapa, PO: 1000-1000, Kathmandu P.O. Box: 1000-1000, Kathmandu	CONSULTANT Korea Engineering Consultant Corp.	CONTRACTOR CTCE-KALIKA JV BAHADUR, KATHMANDU	CONTRACT NO. PCRP/02/20 CONSTRUCTION OF KOSHI BRIDGE AT : APPROACHES (CHATARA)	DRAWING NO. AS BUILT DRAWING SHEAR CONNECTOR WELD PLAN	DESIGNED BY CHECKED BY APPROVED BY	SIGNATURE 	DATE	SCALE : 1:20	SHEET NO. TOTAL SHEETS DRAWING NO. 27
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PLAN VIEW OF SHEAR CONNECTORS

DETAIL OF SHEAR CONNECTOR STUD
STUD 20x120 mm Long PROVIDED - 132 NOS
(For both top chord)



PLAN VIEW OF SHEAR CONNECTORS

DETAIL OF SHEAR CONNECTOR STUD
STUD 20x120 mm Long PROVIDED - 132 NOS
(For both stringer beam)

GOVERNMENT OF NEPAL MINISTRY OF FEDERAL AFFAIRS AND LOCAL GOVERNMENT DEPARTMENT OF ROADS KATHMANDU KATHMANDU KATHMANDU	DESIGNER Kurus Engineering Consultant Corp.	CLIENT CTCE-KATKA JV BALLYATAK KATHMANDU	PROJECT TITLE CONSTRUCTION OF KOSHI BRIDGE AND APPROACHES (GHATARA)	PROJECT NO. 27	DATE 2073	SCALE SCALE - 20	NO. 27	DATE 2073	NO. 27
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