



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department Of Roads
Development Cooperation Implementation Division
Strategic Road Connectivity & Trade Improvement Project
(SRCTIP)

**Detailed Design of Upgradation of Kamala- Dhalkebar- Pathlaiya
Road Section (130km) of Mahendra Highway and Bridges**

Final Design Report
Volume IV
Design Report & Drawing of Bridges

Bridge Name- Aurahi
Volume-2
Detailed Drawing

April, 2023

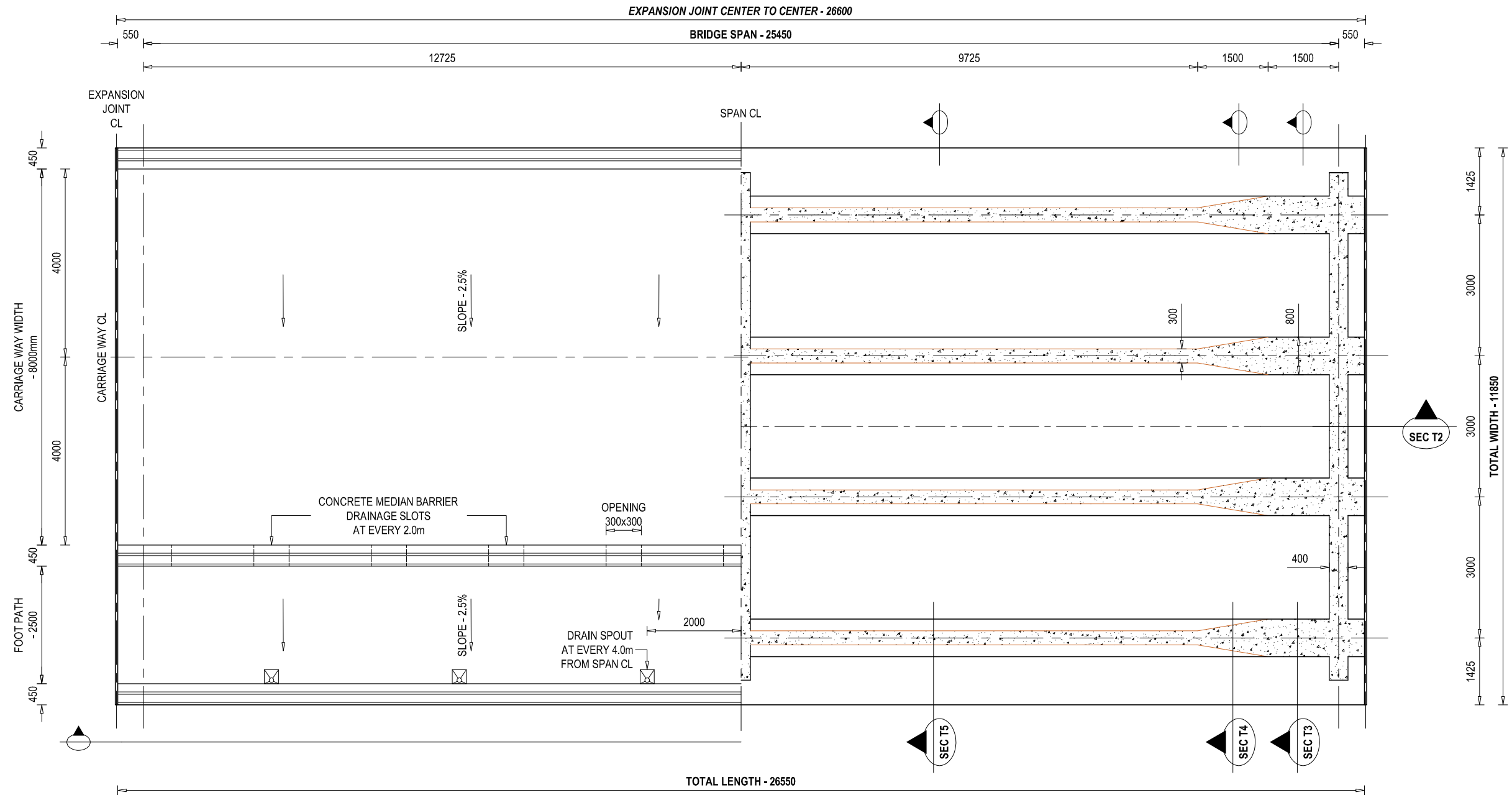
Joint Venture Of:

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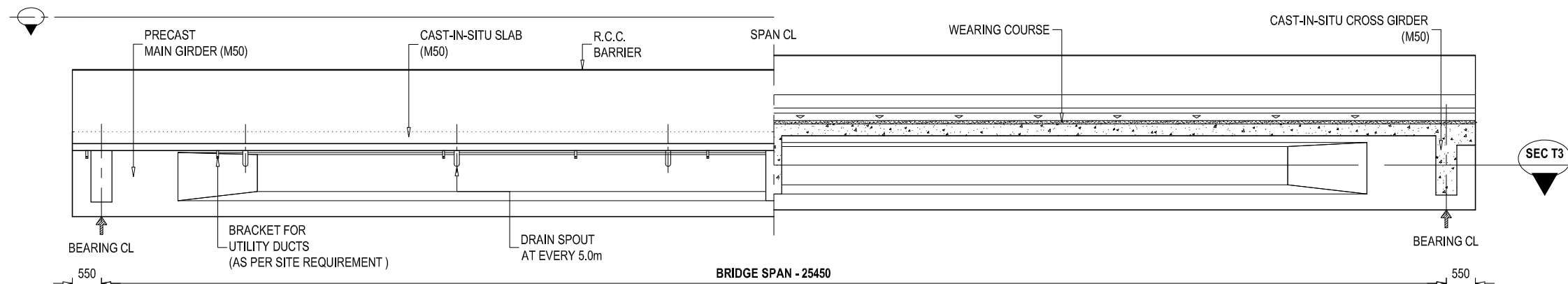
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HALF SECTIONAL PLAN VIEW OF SUPERSTRUCTURE AT SEC T1

SCALE - 1 : 100 @ A3 PAPER



HALF ELEVATION SECTIONAL VIEW OF SUPERSTRUCTURE AT SEC T2

SCALE - 1 : 100 @ A3 PAPER

NOTE
READ THIS DRAWING IN CONJUNCTION WITH
DRG NO. KDP/DPR/STR/BR/AURAH/ID-4

EMPLOYER	PROJECT NAME	DESIGN CONSULTANTS	Designed By	Drawing Name	Scale:	Date:
 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130 KM) of Mahendra Highway and Bridges	Joint Venture of  EPTISA Servicios De Ingeniera Madrid, Spain  STUP Consultants Private Limited Kolkata, India In Association With Udaya Consultancy, Geocom International, Sundar Kriti Consultant and Rays Consultant Private Limited	Mr. R.D. Nec.No. 6489 CPML/V	SUPER STRUCTURE DETAILS OF BRIDGE OVER RIVER AURAH	SCALE: AS SHOWN Chainage: 254+663	19.04.2023
			Checked By Mr. S.M.	Reference Drawings KDP/DPR/STR/BR/AURAH/ID-17		Drawing No. KDP/DPR/STR/BR/AURAH/ID-13
			Approved By Mr. H.B.			Sheet No. 1 / 2

Bearing Design Data for 26.6m Span and 11.85m width

Load Condition	Items	Under	On each Neoprene Bearing	Unit
Under No Live Load	V	NO EQ.	64.62	Ton
		EQ.	74.31	Ton
	H _L	NO EQ.	-	Ton
		EQ.	14.54	Ton
	H _T	NO EQ.	-	Ton
		EQ.	14.54	Ton
	θ	NO EQ.	0.00250	radian
		EQ.	0.00288	radian
Δ			14.57	mm
Under Maximum Live Load	V	NO EQ.	109.10	Ton
		EQ.	120.12	Ton
	H _L	NO EQ.	-	Ton
		EQ.	0.00	Ton
	H _T	NO EQ.	-	Ton
		EQ.	0.00	Ton
	θ	NO EQ.	0.00388275	radian
		EQ.	0.00447	radian
Δ			24.23	mm

 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT NAME Strategic Road Connectivity & Trade Improvement Project (SRCTIP) Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlalya Road Section (130 KM) of Mahendra Highway and Bridges	DESIGN CONSULTANTS		Designed By	Mr. R.D.	 Signature	Drawing Name	Scale:	Date:
		Joint Venture of			Nec.No.6489 CIVIL/14		BEARING DESIGN DATA OF BRIDGE OVER RIVER AURAH	AS SHOWN	19.04.2023
		 EPTISA Servicios De Ingeniera Madrid, Spain	 STUP Consultants Private Limited Kolkatta, India	Checked By	Mr. S.M.		Reference Drawings	Chainage:	Drawing No.-
		In Association With		Approved By	Mr. H.B.			254+663	KDP/DPR/STR/BR/AURAH/DD- 21
Udaya Consultancy, Geocom International, Sundar Krti Consultant and Rays Consultant Private Limited						 Signature			Sheet No.1/1