ABBREVIATIONS

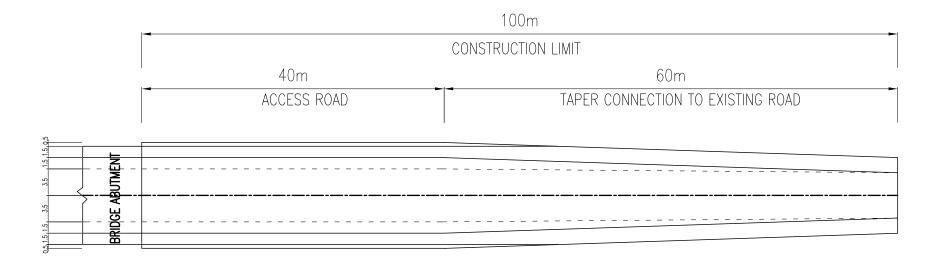
AMP	AMPERE	DWG	DRAWING	L.V.C	LENGTH OF VERTICAL CURVE	RERD	RELOCATION OF ROAD
Α	CLOTHOID PARAMETER	E	EASTING	М	METER	REWY	RELOCATION OF WATERWAY
AC	ALTERNATING CURRENT	EB	EAST BOUND	м ² , м2	SQUARE METER	R.O.W	RIGHT OF WAY
AC	ASPHALT CONCRETE	ELEV(EL)	ELEVATION	м ³ , м3	CUBIC METER	RP	RADIUS POINT
AD	ABSOLUTE DIFFERENCE	EGL	EXISTING GROUND LEVEL	MAX	MAXIMUM	RT	RIGHT SIDE OF ALIGNMENT
AIFB	ASPHALT-IMPREGNATED FIBERBOARD	EP	END POINT	MIN	MINIMUM	RW	RETAINING WALL
APPR	APPROACH	EQ	EQUAL	ММ	MILLIMETER	SB	SOUTH BOUND
ASPH	ASPHALT	EXC	EXCAVATION	МО	MIDDLE ORDINATE	SC	SPIRAL CURVE TO CIRCULAR CURVE
вс	BOX CULVERT	EXP	EXPANSION	N	NORTHING	SD	SIDE DICTH
BOR	BORING	EVCS	ENDING OF VERTICAL CURVE STATION	NA, N/A	NOT APPLICABLE	SDBT	SAND BLANKET
BR	BRIDGE	EVCE	ENDING OF VERTICAL CURVE ELEVATION	NB	NORTH BOUND	SM	STONE MANSORY
BRG	BEARING	F	FILL	NC	NORMAL CROWN	SP	SLOPE PROTECTION
BVCS	BEGINING OF VERTICAL CURVE STATION	F	FIXED	NGL	NATURAL GROUND LEVEL	SQ.M	SQUARE METER
BVCE	BEGINING OF VERTICAL CURVE ELEVATION	FF	FACE TO FACE	NH	NATIONAL HIGHWAY	SSP	SURFACE SETTLEMENT PLATE
c/c	CENTER TO CENTER	FG	FINISHED GRADE	NO	NUMBER	ST	SPIRAL CURVE TO TANGENT
CB	CATCH BASIN	FR	FRONTAGE ROAD	NTS	NOT TO SCALE	STA	STATION
CIP	CAST-IN-PLACE	GF	GUARD FENCE	OGL	ORIGINAL GROUND LEVEL	STRUC	STRUCTURE
CL	CENTERLINE	GIR	GIRDER	OV	OVER BRIDGE	STS	SPIRAL TO SPIRAL POINT
СМ	CENTIMETER	GL	GROUND LEVEL	Р	PIPE CULVERT	SURG	SUR-CHARGE
CONC	CONCRETE	GR	GUARD RAIL	PC	BEGINING POINT OF SIMPLE CURVE	SV	SUPERVISION
CONST	CONSTRUCTION	Have	AVERAGE HEIGHT	P.C	PRESTRESSED CONCRETE	Т	THICKNESS
CONT	CONTINUOUS	H.W.L	HIGH WATER LEVEL	PCCP	PORTLAND CEMENT CONCRETE PAVEMENT	TS	TANGENT TO SPIRAL
cs	CIRCULAR CURVE TO SPIRAL CURVE	HWY	HIGHWAY	PH	PLAN HEIGHT	TYP	TYPICAL
CU.M	CUBIC METER	G1,G2	GRADIENT	PI	POINT OF HORIZONTAL INTERSECTION	V	DESIGN SPEED IN kph
CJ	CONSTRUCTION JOINT	INV	INVERT	PR	PROVINCIAL ROAD	VOLT	VOLTAGE
CWB	COUNTER WEIGHT BERM	JT	JOINT	PRC	POINT OF REVERSE CURVE	VC	VERTICAL CURVE
DC	DRAINAGE CATCH BASIN	K	VERTICAL CURVE COEFICIENT	PT	ENDPOINT OF SIMPLE CURVE	W	WIDTH
DFL	DESIGN FLOOD LEVEL	kg	KILOGRAM	PVD	PREFABRICATED VERTICAL DRAIN	WB	WEST BOUND
DI	DRAINAGE INLET	km	KILOMETER	PVI	POINT OF VERTICAL INTERSECTION	WHM	WATT HOUR METER
DIA or Ø	DIAMETER	kph	KILOMETER PER HOUR	P.W	PARAPET WALL	X	EASTING COORDINATE IN METERS
DL	DATUM LINE	L	LEFT	R	RIGHT	Υ	NORTHING COORDINATE IN METERS
DO	DRAINAGE OUTLET	L	LENGTH	R	RADIUS OF CIRCULAR CURVE	0	AT
DS	DRAINAGE SIDE DITCH	LA	LAND ACQUISITION	R.C	REINFORCED CONCRETE	&	AND
DSP	DEEP SETTLEMENT PLATE	L.M	LINEAR METER	R.C.B.C	REINFORCED CONCRETE BOX CULVERT	%	PERCENT
DW	MOTARED RUBBLE PAVED WATERWAY	LT	LEFT SIDE OF ALIGNMENT	R.C.P.C	REINFORCED CONCRETE PIPE CULVERT		



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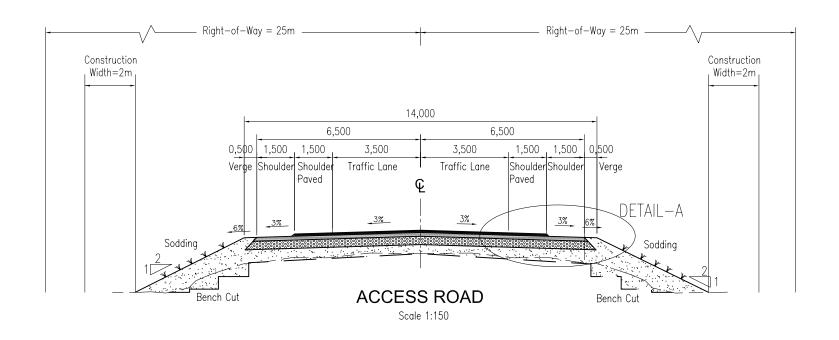
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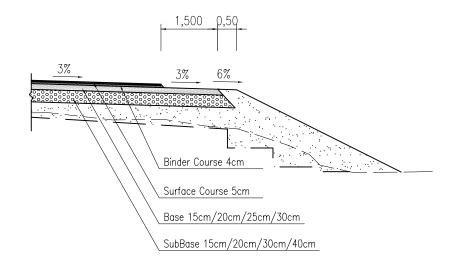
ITLE:	SCALE	DRAWING No :	
	SCALE	DRAWING NO.	
ABBREVIATIONS	NTS	D 07	
	1413	B-03	



Note: Dimensions are in M Scale 1:500

Bridge	Asphalt	Concrete	Base	Subbase	
No	Surface	Binder	Dase		
1	4 cm	5 cm	25 cm	30 cm	
2	4 cm	5 cm	20 cm	30 cm	
3	4 cm	5 cm	15 cm	20 cm	
4	4 cm	5 cm	30 cm	40 cm	
5	4 cm	5 cm	30 cm	40 cm	
6	4 cm	5 cm	30 cm	40 cm	
7	4 cm	5 cm	30 cm	40 cm	
8	4 cm	5 cm	15 cm	15 cm	





DETAIL-A
Scale 1:100



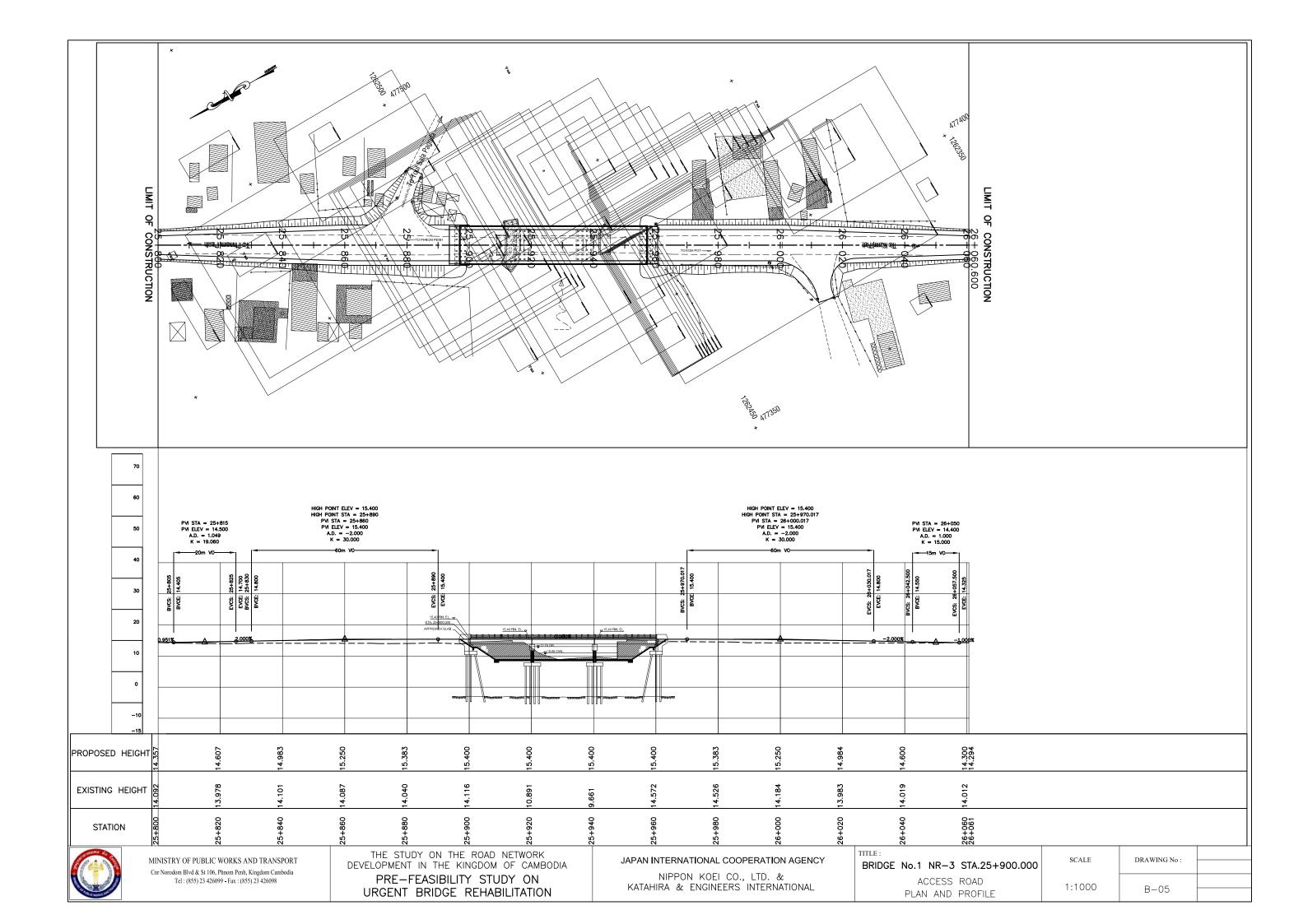
MINISTRY OF PUBLIC WORKS AND TRANSPORT Cnr Norodom Blvd & St 106, Phnom Penh, Kingdom Cambodia Tel: (855) 23 426099 - Fax: (855) 23 426098 THE STUDY ON THE ROAD NETWORK
DEVELOPMENT IN THE KINGDOM OF CAMBODIA
PRE—FEASIBILITY STUDY ON
URGENT BRIDGE REHABILITATION

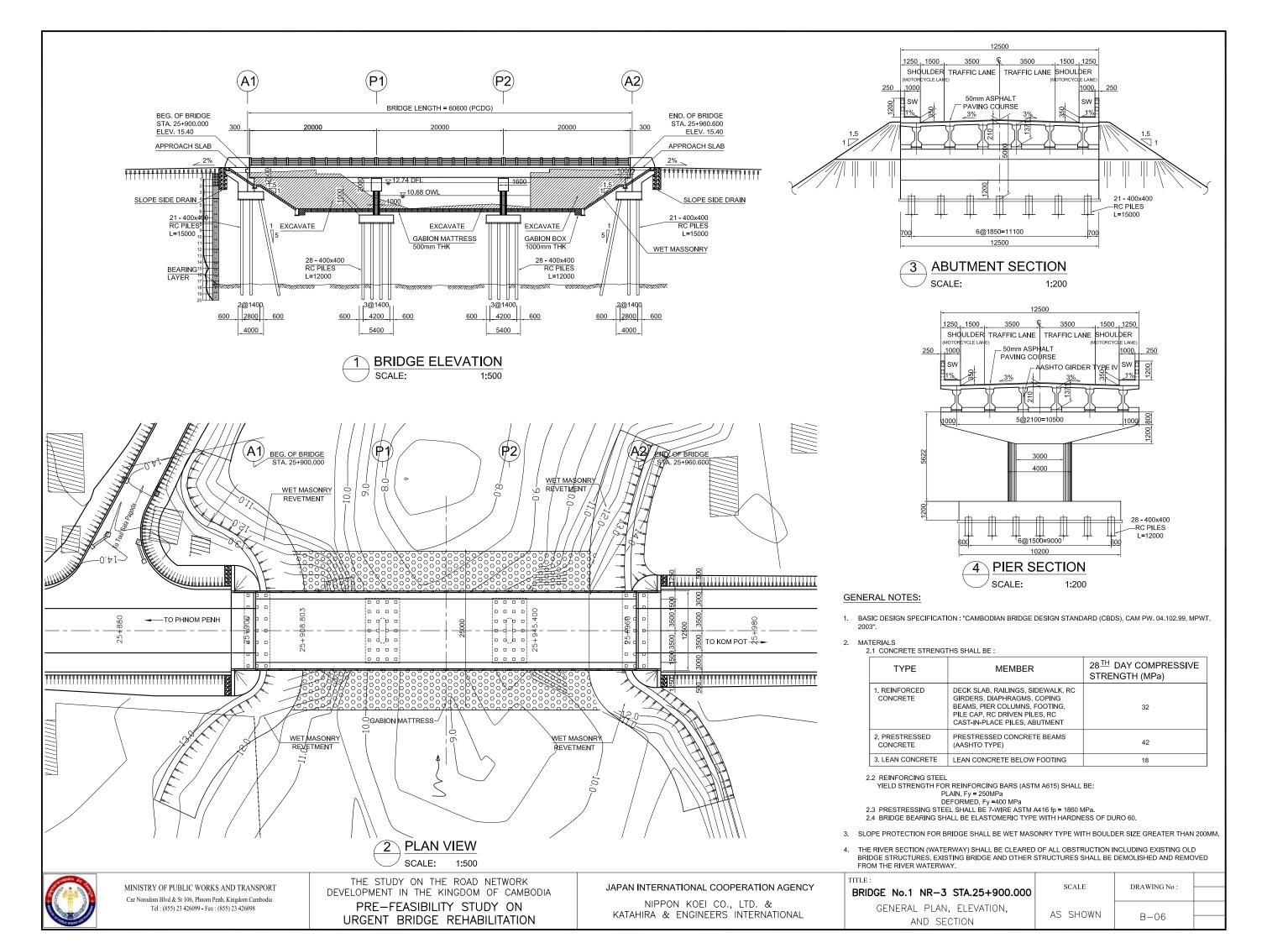
JAPAN INTERNATIONAL COOPERATION AGENCY
NIPPON KOEI CO., LTD. &
KATAHIRA & ENGINEERS INTERNATIONAL

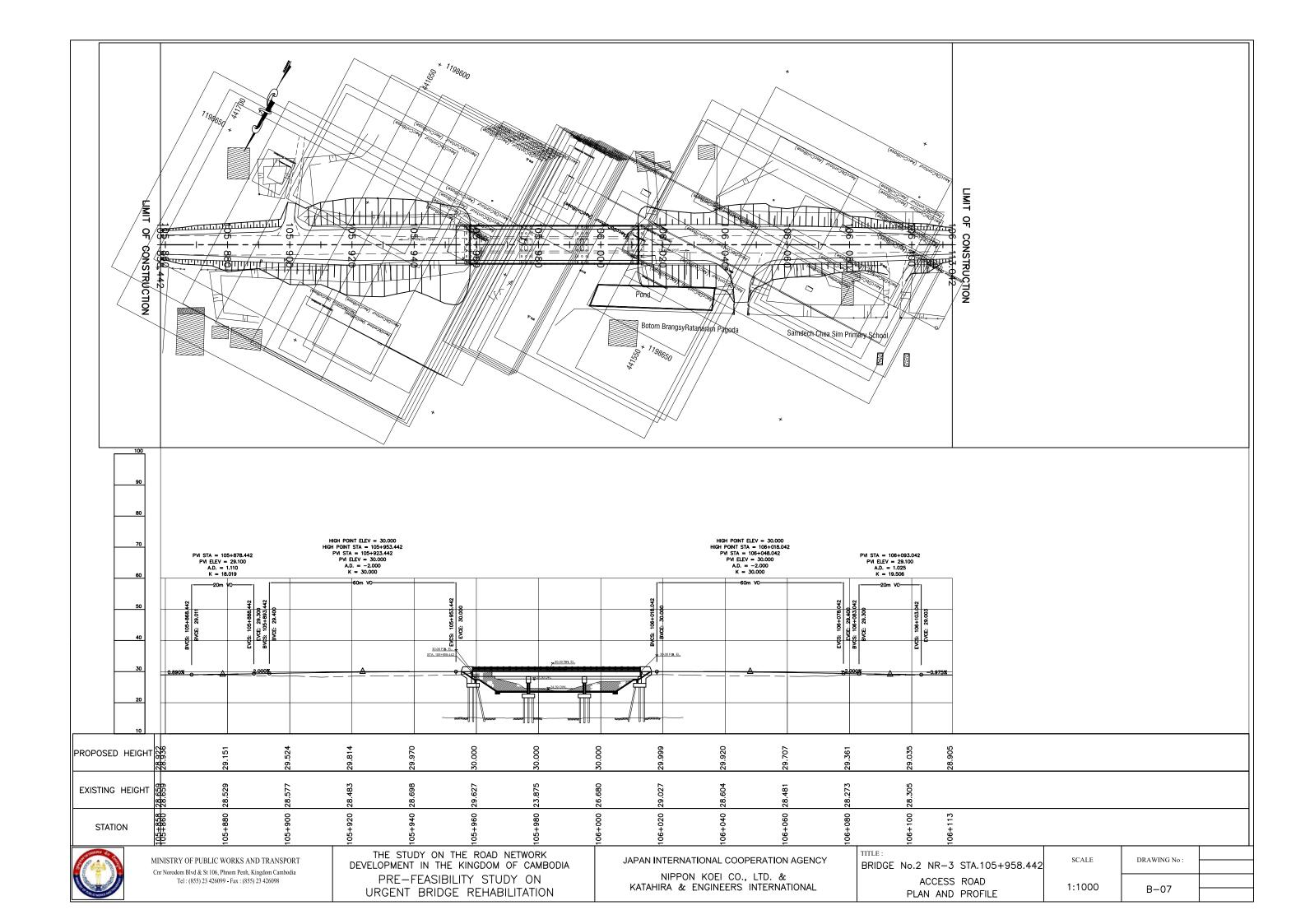
TYPICAL ROAD CROSS SECTION

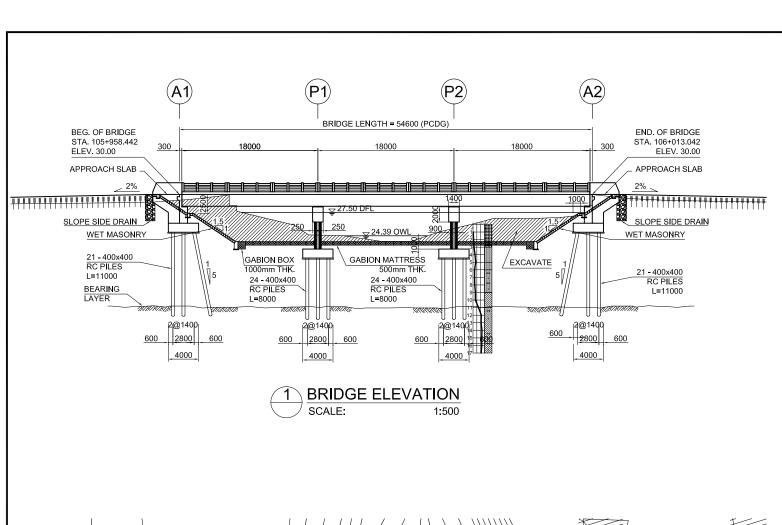
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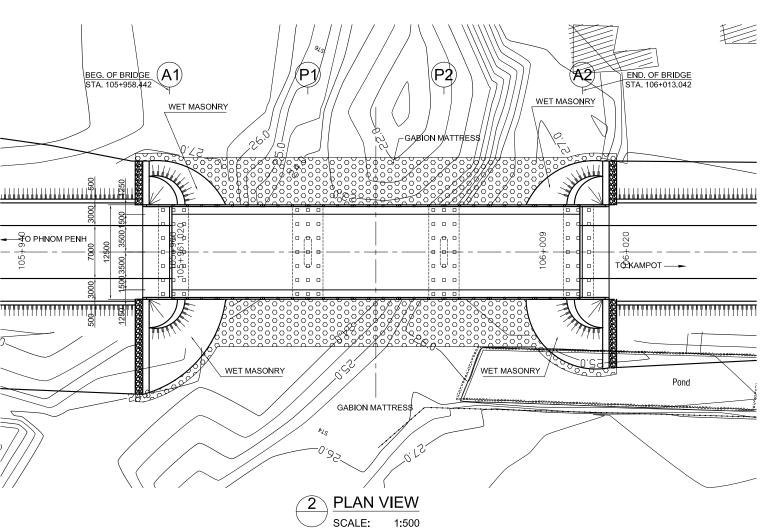
AS SHOWN B-04

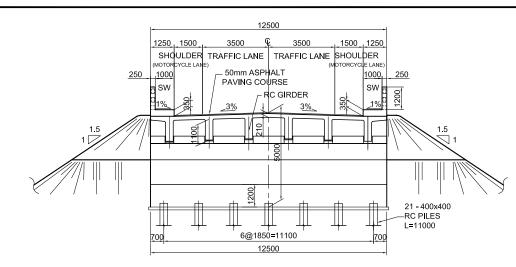




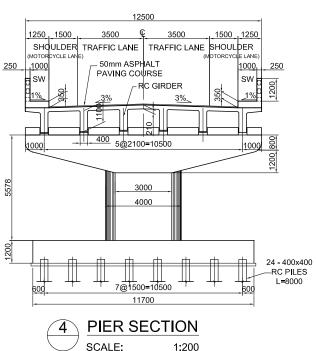








ABUTMENT SECTION SCALE:



GENERAL NOTES:

- 1. BASIC DESIGN SPECIFICATION: "CAMBODIAN BRIDGE DESIGN STANDARD (CBDS), CAM PW. 04.102.99, MPWT,
- 2. MATERIALS
 - 2.1 CONCRETE STRENGTHS SHALL BE:

TYPE	MEMBER	28 TH DAY COMPRESSIVE STRENGTH (MPa)		
1. REINFORCED CONCRETE	DECK SLAB, RAILINGS, SIDEWALK, RC GIRDERS, DIAPHRAGMS, COPING BEAMS, PIER COLUMNS, FOOTING, PILE CAP, RC DRIVEN PILES, RC CAST-IN-PLACE PILES, ABUTMENT	32		
2. PRESTRESSED CONCRETE	PRESTRESSED CONCRETE BEAMS (AASHTO TYPE)	42		
3. LEAN CONCRETE	LEAN CONCRETE BELOW FOOTING	18		

2.2 REINFORCING STEEL

YIELD STRENGTH FOR REINFORCING BARS (ASTM A615) SHALL BE:

- PLAIN, Fy = 250MPa

 DEFORMED, Fy =400 MPa

 2.3 PRESTRESSING STEEL SHALL BE 7-WIRE ASTM A416 fp = 1860 MPa.

 2.4 BRIDGE BEARING SHALL BE ELASTOMERIC TYPE WITH HARDNESS OF DURO 60.
- 3. SLOPE PROTECTION FOR BRIDGE SHALL BE WET MASONRY TYPE WITH BOULDER SIZE GREATER THAN 200MM
- 4. THE RIVER SECTION (WATERWAY) SHALL BE CLEARED OF ALL OBSTRUCTION INCLUDING EXISTING OLD BRIDGE STRUCTURES. EXISTING BRIDGE AND OTHER STRUCTURES SHALL BE DEMOLISHED AND REMOVED FROM THE RIVER WATERWAY.



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THE STUDY ON THE ROAD NETWORK DEVELOPMENT IN THE KINGDOM OF CAMBODIA

PRE-FEASIBILITY STUDY ON URGENT BRIDGE REHABILITATION JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. & KATAHIRA & ENGINEERS INTERNATIONAL

SCALE BRIDGE No.2 NR-3 STA.105+958.442 GENERAL PLAN, ELEVATION, AS SHOWN AND SECTION

DRAWING No: B-08