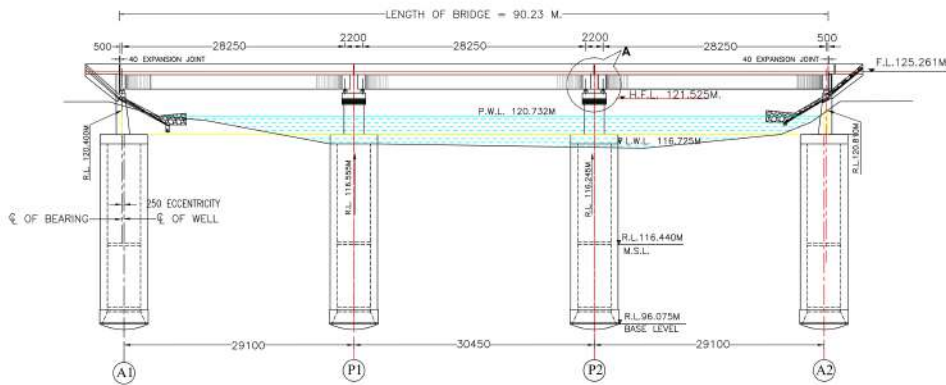
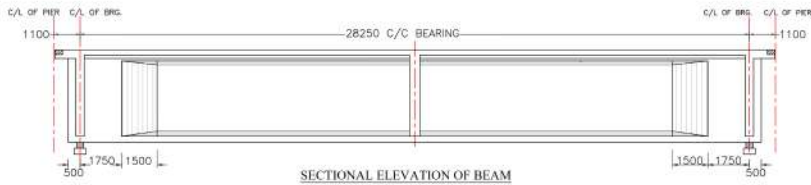


TO PYRAPUR SIDE

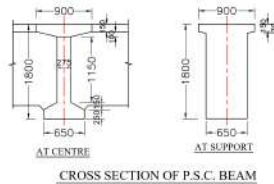
TO BELVA BASHAIYA SIDE



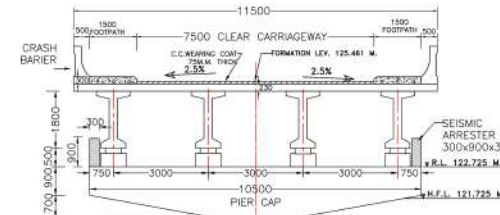
GENERAL ELEVATION OF BRIDGE



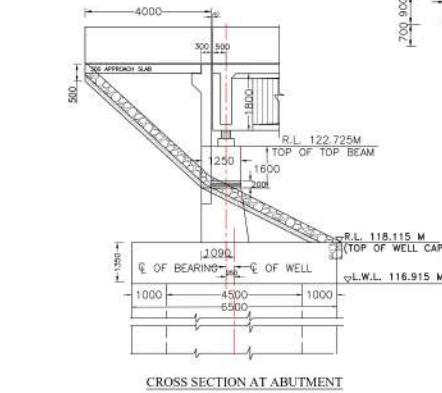
SECTIONAL ELEVATION OF BEAM



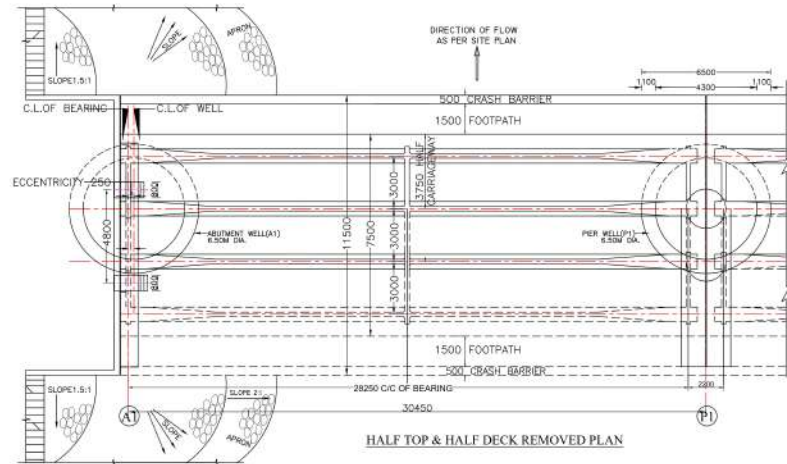
CROSS SECTION OF P.S.C. BEAM



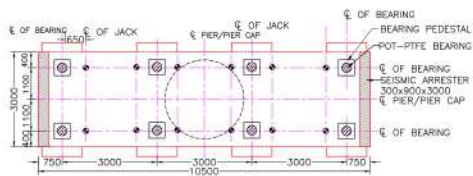
CROSS SECTION AT ABUTMENT



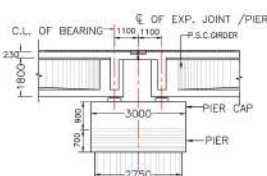
CROSS SECTION AT PIER



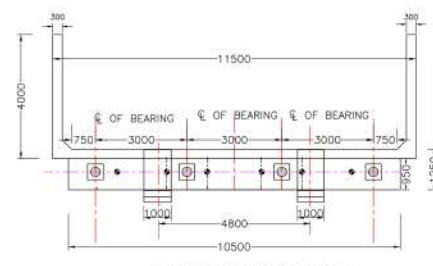
HALF TOP & HALF DECK REMOVED PLAN



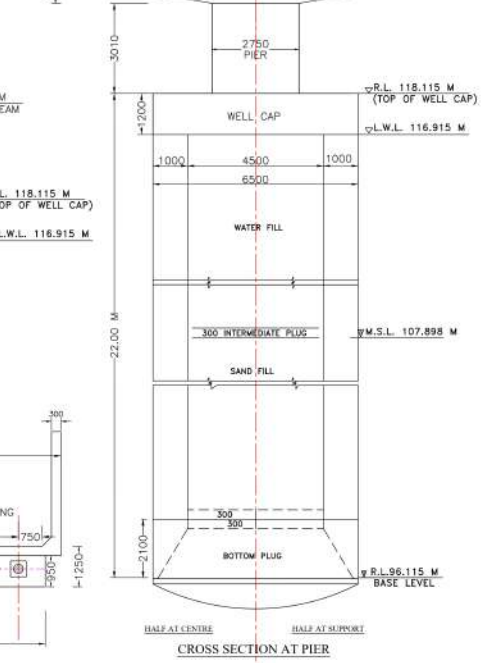
TOP PLAN OF PIER CAP



DETAIL AT A'



PLAN OF ABUTMENT TOP BEAM



CROSS SECTION AT PIER

NOTES

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED, R.L.'S ARE IN METERS.
  - DIMENSIONAL DETAILS OF DIFFERENT COMPONENTS ARE TENTATIVE & SHALL BE DECIDED AT TIME OF DETAILED DESIGN.
  - ONLY FIGURED DIMENSION SHALL BE FOLLOWED, AND NOT THE SCALED DIMENSIONS.
  - QUALITY CONTROL SHALL CONFORM TO RELEVANT IRC -CODE.
  - STEEL REINFORCEMENT SHALL BE F45000 (TMT BAR) CONFORM TO IS.1786.
  - THE DIRECTION OF FLOW OF WATER IN RIVER IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
  - CONCRETE GRADE IN VARIOUS COMPONENTS SHALL BE AS PER FOLLOWING DETAILS. (TENTATIVELY TO BE MODIFIED IN DETAILED DESIGN).
- A- FOUNDATION
- (1) WELL CURB.....M30
  - (2) WELL STENING.....M30
  - (3) BOTTOM/INTERMEDIATE PLUG.....M25
  - (4) WELL CAP.....M30
- B- SUB STRUCTURE
- (1) PIER CAP.....M35
  - (2) ABUTMENT/PIER.....M35
  - (3) ABUTMENT TOP BEAM.....M35
  - (4) WIND WALL & BACK WALL.....M35
  - (5) PEDESTAL.....M45
  - (6) BEARING.....POT-PTFE
- C- SUPER STRUCTURE
- (1) P.S.C. BEAM.....M45
  - (2) CROSS BEAM.....M45
  - (3) DECK SLAB.....M40
  - (4) CRASH BARRIER.....M40
  - (5) 75 MM. THICK UNIFORM C.C.W/C.....M30
- (D)- BOTTOM PLUGGING- THE CONCRETE OF BOTTOM PLUG SHALL BE DONE IN ACCORDANCE WITH CLAUSE 708.9 OF IRC:78-2014, THE CONCRETE MIX USED IN BOTTOM PLUG SHALL HAVE A MINIMUM CEMENT CONTENT OF 330 KG/CUM. FOR UNDER WATER CONCRETE BY TREME BOXES, THE CEMENT CONTENT SHALL BE INCREASED BY 10 PERCENT.
- 8- THE DIRECTION OF FLOW OF WATER IN RIVER IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
- 09- SALIENT FEATURES OF BRIDGE HAS BEEN TAKEN AS PROVIDED BY P.M. B.C.U. SITAPUR AS PER SURVEY REPORT & S3 REPORT.
- (1) DESIGN DISCHARGE.....732.90 CUMEC/S.
- (2) H.W.L.....121.720M
- (3) L.W.L.....116.915M
- (4) SCOUR ZONE.....Ksf = 0.95
- (5) GRP ZONE.....C = 0.0 kg/cm<sup>2</sup>, θ = 30°
- (6) SAFE BEARING CAPACITY.....=65.70T/M<sup>2</sup> AT 22.00M BELOW L.W.L.
- 10- SEISMIC PARAMETERS:-
- (1) IMPORTANCE FACTOR = 1.2
  - (2) SEISMIC ZONE = II
  - (3) S<sub>g</sub>/g = 2.5
- 11-BEFORE START OF WORK CLEARANCE FROM FOREST, AND OTHER CONCERNING DEPARTMENTS MUST BE OBTAINED BY P.M. B.C.U. SITAPUR & G.M. (LUCKNOW)
- 12-ALL WORKS SHALL BE CARRIED OUT IN COMPLIANCE WITH STANDARD I.R.C./M.S.R.F. SPECIFICATIONS AS PER RELEVANT I.R.C. & I.S. CODES.
- 13-IT IS RESPONSIBILITY OF P.M. B.C.U.- SITAPUR AND G.M. (LUCKNOW) TO ACQUIRE SUFFICIENT LAND FOR BRIDGE AND APPROACH ROAD BEFORE START OF WORK. VICE ENGR. IN CHIEF (DEV.) L.W.L. LDO. LETTER NO.241 CAMP-ENGR. IN CHIEF/DEV/03 (14)-1/2016, DATED-28-05-2016.

G.A.D. FOR ESTIMATE PURPOSE ONLY		
	U.P. STATE BRIDGE CORPORATION Ltd B.C.U.-SITAPUR	
PROJECT	PROPOSED CONSTRUCTION OF BRIDGE OVER RIVER KIWANI AT BELVA BASHAIYA IN ASSEMBLY CONSTITUENCY BISWAN OF DISTRICT SITAPUR	
TITLE	GENERAL ARRANGEMENT DRAWING	
SPAN ARRANGEMENT	1 X 29.10 M. + 1 X 30.45 M. + 1 X 29.10 M.	
CARRIAGEWAY	7.5 M. WITH FOOTPATH	
LOADING	2 LANE OF I.R.C. CLASS 'A'	
BCU.SITAPUR	A.E. BCU.SITAPUR	P.M. SITAPUR
		G.M. LUCKNOW
DRG.NO: 01/T/04/BCU/SITAPUR/KIWANI RIVER/BELVA BASHAIYA/2025		