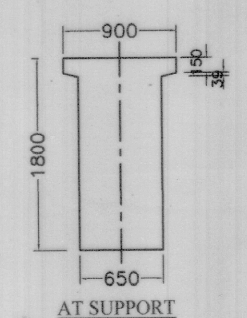
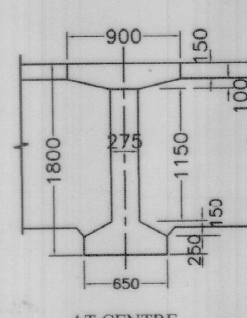


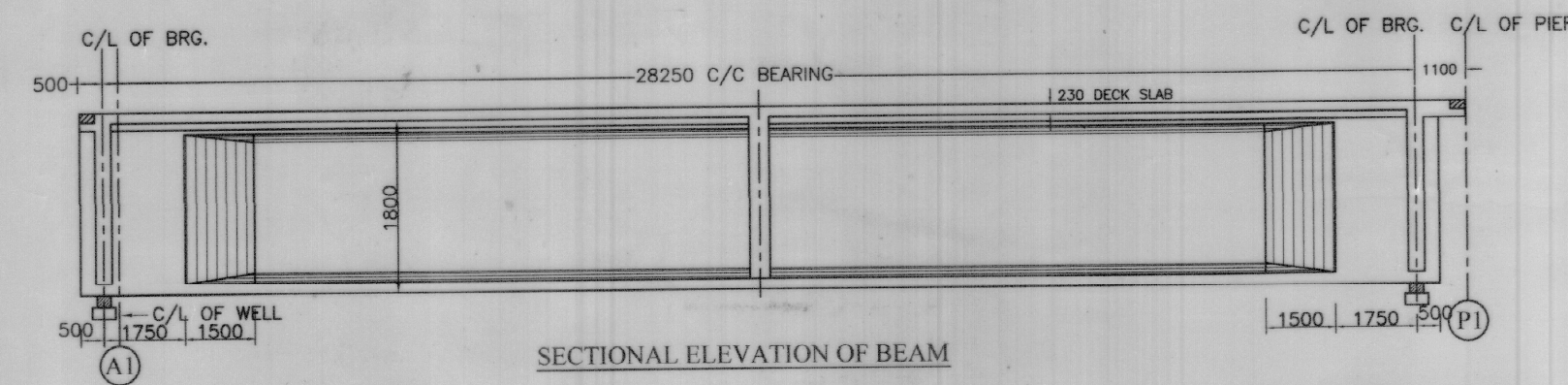
GENERAL ELEVATION OF BRIDGE



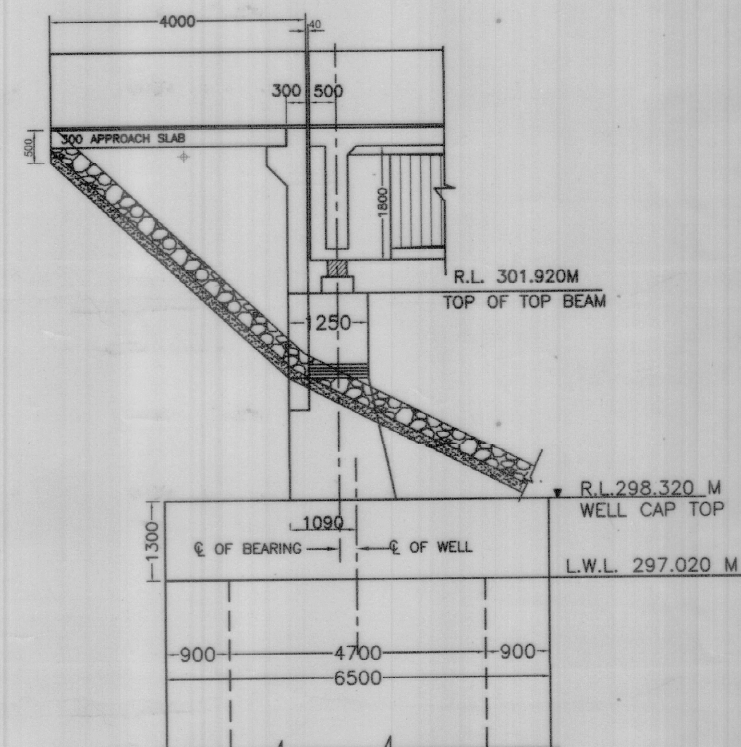
CROSS SECTION OF P.S.C. BEAM



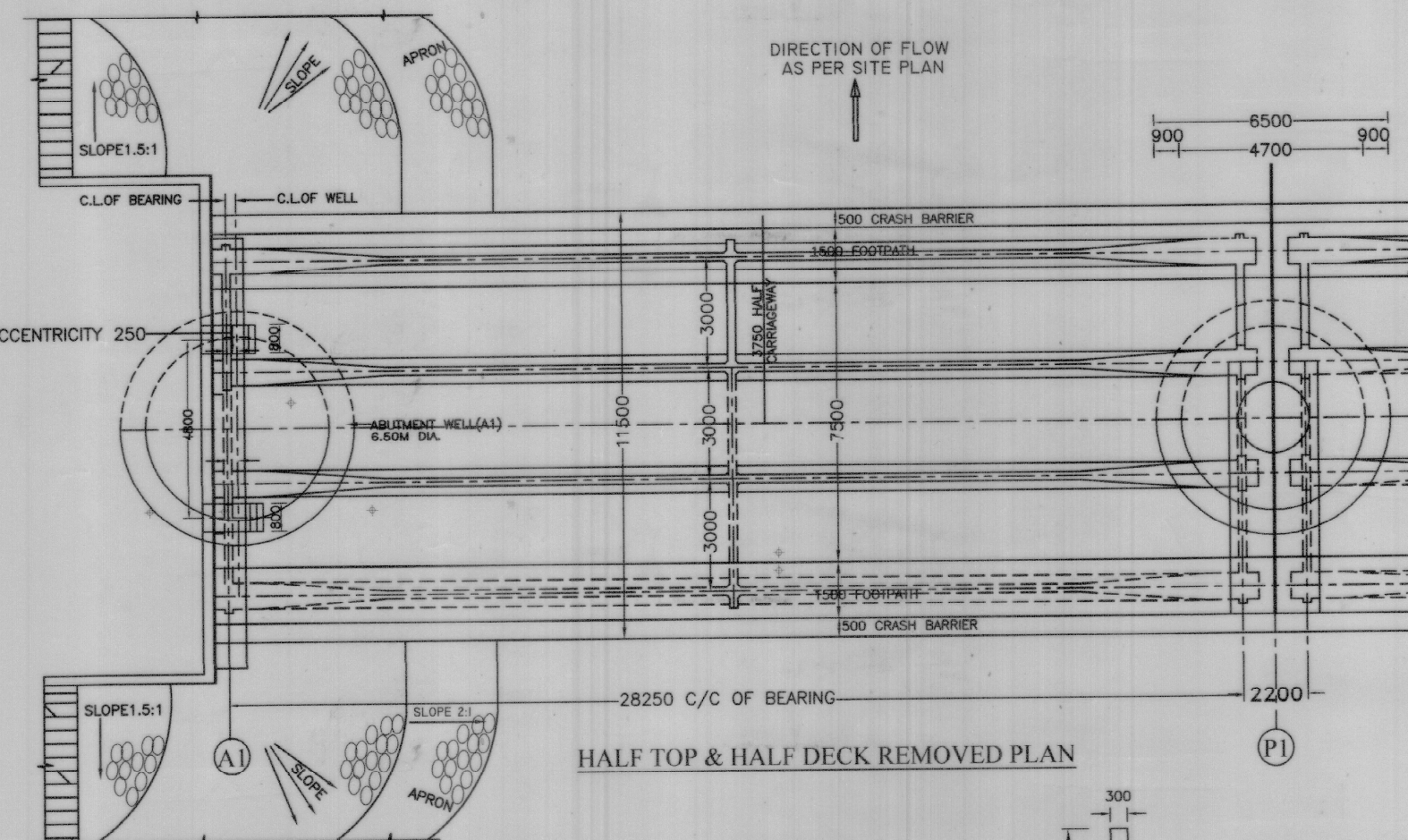
CROSS SECTION OF P.S.C. BEAM



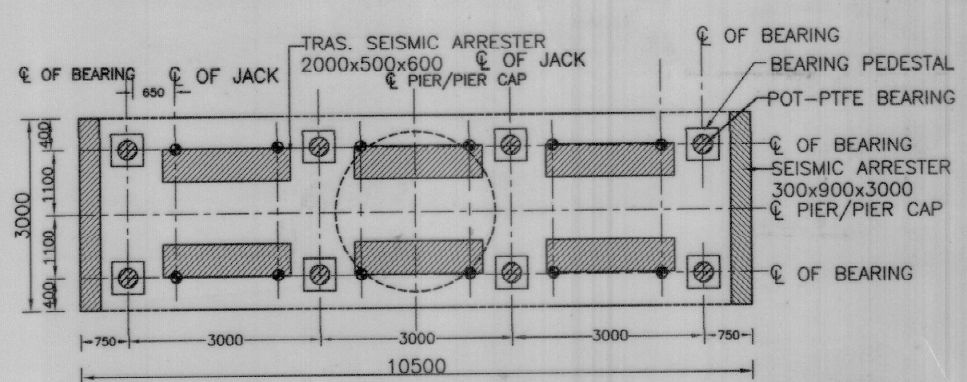
SECTIONAL ELEVATION OF BEAM



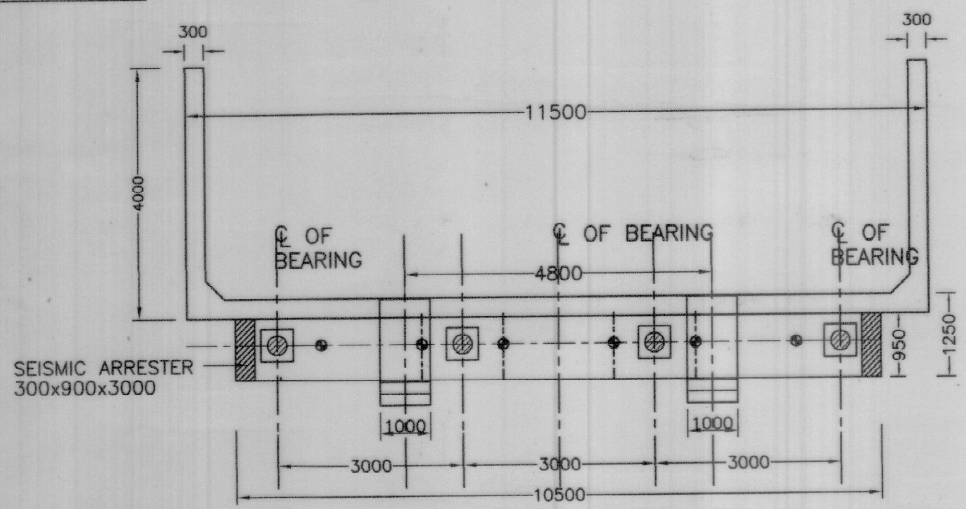
CROSS SECTION AT ABUTMENT



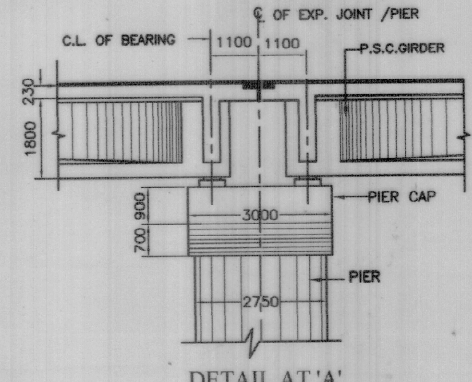
HALF TOP & HALF DECK REMOVED PLAN



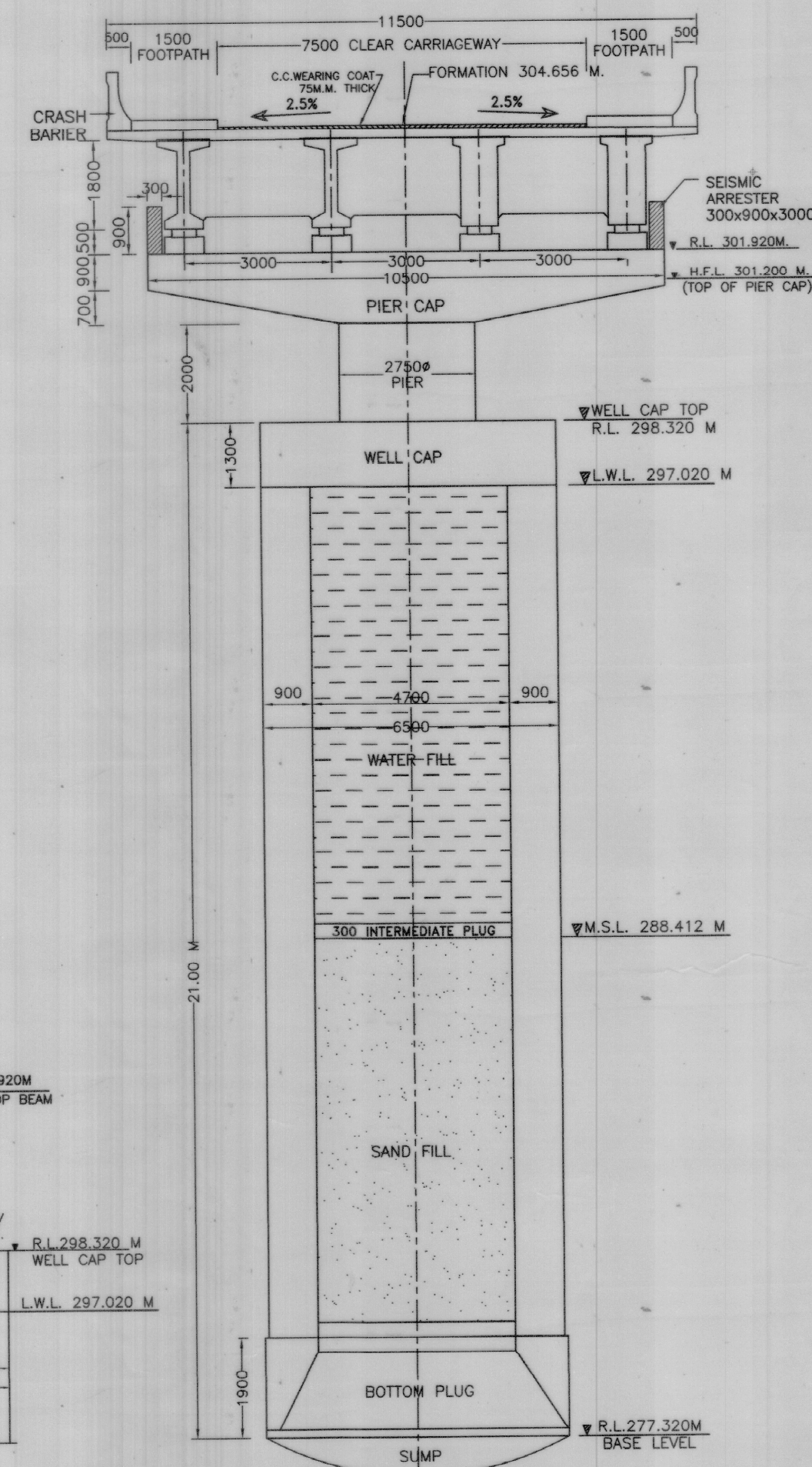
TOP PLAN OF PIER CAP



PLAN OF ABUTMENT TOP BEAM




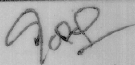

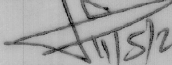
DETAIL AT 'A'

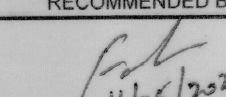
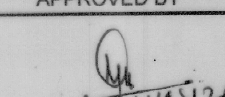


CROSS SECTION AT PIER

# NOTES & CONDITIONS:-

- THIS BRIDGE HAS BEEN SANCTIONED VIDE G.O NO. 194/2026/1/1258744/2026/23-6099/31/2026 DATED 31 MARCH 2026.
- SANCTIONED COST.....2549.480 LACS.
- YOUNA -----RAJYA YOUNA (GRAMIN)
- 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 I.R.C.-112-2020.
- CONCRETE GRADE IN VARIOUS COMPONENTS SHALL BE AS PER FOLLOWING DETAILS. (TENTATIVE, LIABLE TO BE MODIFIED IN DETAILED DESIGN).
- FOUNDATION
  - (a) WELL CURB.....M30
  - (b) WELL STEINING.....M30
  - (c) INTERMEDIATE PLUGGING.....M15
  - (d) WELL CAP.....M30
  - (e) BOTTOM PLUG.....M25
- SUB STRUCTURE
  - (a) PIER CAP & PIER.....M35
  - (b) ABUTMENT.....M35
  - (c) ABUTMENT TOP BEAM.....M35
  - (d) WING WALL & BACK WALL.....M35
- SUPER STRUCTURE
  - (a) P.S.C. BEAM.....M45
  - (b) CROSS BEAM.....M45
  - (c) DECK SLAB.....M40
  - (d) CRASH BARRIER.....M40
  - (e) 75 M.M. THICK UNIFORM C.C/W/C.....M30
- BOTTOM PLUGGING:- THE CONCRETE OF BOTTOM PLUG SHALL BE DONE IN ACCORDANCE TO CLAUSE 708.8 OF IRC:75-2000. THE CONCRETE MIX USED IN BOTTOM PLUG SHALL HAVE A MINIMUM CEMENT CONTENT OF 330 KG/CUM. FOR UNDER WATER CONCRETE BY TREMIE BOXES, THE CEMENT CONTENT SHALL BE INCREASED BY 10 PERCENT.
- THE DIRECTION OF FLOW OF WATER IN RIVER IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
- SALIENT FEATURES OF BRIDGE HAS BEEN TAKEN AS PROVIDED BY D.P.M. B.C.U. SAHARANPUR VIDE LETTER NO. 93/52ER / SAHARANPUR /2026-27 DATED:- 15/04/2026 AND APPROVED BY C.P.M. (GHAZIABAD) VIDE LETTER NO. 289/59 C.P.M. GHAZIABAD /26-27 DATED 17.04.2026.
  - (i) DESIGN DISCHARGE .....= 840.0 CUMECs.
  - (ii) H.F.L. ....= 301.200M.
  - (iii) L.W.L. ....= 297.020M.
  - (iv) SCOUR ZONE .....Kg = 1.00
  - (v) CRIP ZONE .....C = 0.0 Kg / Cm<sup>2</sup>,  $\theta=30^\circ$
  - (vi) SAFE BEARING CAPACITY .....=52.0 T/M<sup>2</sup> AT BASE LEVEL.
- SEISMIC PARAMETERS:-
  - (i) IMPORTANCE FACTOR =1.2
  - (ii) SEISMIC ZONE = IV
  - (iii)  $S_a/g$  = 2.5
- PITCHING AND APRON SHALL BE PROVIDED AS PER En.In.Chief. U.P. L.N.V. CIRCULAR NO.39 P.W.D./4309 Mt./52M.39/89, DATED:-17-08-89 / I.R.C.89-2000.
- STEEL REINFORCEMENT SHALL BE Fe500D(TMT BAR) CONFORM TO I.S.1786.
- TENTATIVE DESIGN OF THE WELL HAS BEEN DONE AS PER ABOVE SOIL PARAMETERS. IF ANY CHANGE IN SOIL PARAMETERS, PLEASE PROVIDE TO DESIGN UNIT IMMEDIATELY.
- ALL WORKS SHALL BE CARRIED OUT IN COMPLIANCE WITH STANDARD I.R.C./ M.O.R.T.H. SPECIFICATIONS AND AS PER RELEVANT I.R.C. & I.S. CODES.
- FOR PROTECTION WORK OF BRIDGE AND DESIGN OF APPROACH ROAD REFER SEPARATE DRAWING.
- BEFORE START OF WORK CLEARANCE FROM FOREST AND OTHER CONCERNING DEPARTMENT MUST BE TAKEN BY FIELD UNIT IF ANY.
- THE SPAN ARRANGEMENT AND FORMATION LEVEL OF THE PROPOSED BRIDGE BEEN KEPT IN CONSULTATION WITH D.P.M. B.C.U. SAHARANPUR.
- IT IS RESPONSIBILITIES OF FIELD UNIT TO FULFILL ALL THE CONDITIONS OF G.O. NO. 194/2026/1/1258744/2026/23-6099/31/2026 DATED 31 MARCH 2026. BEFORE START OF WORK.
- DIRT WALL WILL BE CAST ONLY AFTER ALL PRE-STRESSING WORK FOR P.S.C. GIRDER HAS BEEN COMPLETED.
- IF DISTANCE BETWEEN COORDINATES OF ABUTMENTS DIFFER WITH ACTUAL LENGTH OF BRIDGE AS PER G.A.D., THEN THE ACTUAL LENGTH OF BRIDGE AS PER G.A.D. SHOULD BE ADOPTED.
- IT IS RESPONSIBILITY OF D.P.M. B.C.U. SAHARANPUR AND C.P.M.(GHAZIABAD) TO ACQUIRE SUFFICIENT LAND FOR BRIDGE APPROACH ROAD & ADDITIONAL APPROACH ROAD BEFORE START OF WORK AS PER ENG.-IN-CHIEF (DIV.) LUCKNOW LETTER NO. 24/CAMP. ENG. IN CHIEF/DIV./03(H.Q.-1)/2018, DATED:-29-05-2018.

DATE	NO	REVISION	APPROVED
THIS DRAWING IS THE PROPERTY OF U.P.B.C.LTD. IT IS NOT USED AND REPRODUCED WITHOUT ANY WRITTEN PERMISSION.			
	U.P. STATE BRIDGE CORPORATION LTD. 16-MADAN MOHAN MALVIYA MARG LUCKNOW - 226001		
PROJECT	BRIDGE OVER RIVER MASKARARAO BETWEEN VILLAGE NATHMALPUR AND FIROZABAD IN DISTT. SAHARANPUR.		
TITLE	GENERAL ARRANGEMENT DRAWING		
SPAN	4 X 28.25 M. C/C BEARING		
CARRIAGEWAY	7.5 M. CLEAR CARRIAGEWAY WITH BOTHSIDE FOOT PATH		
LIVE LOAD	SAFE FOR 2 LANES OF I.R.C. CLASS 'A' / ONE LANE OF IRC '70R'		
DRAWN BY	CHECKED BY	DESIGNED BY	
 (D/MAN) B.D.U.S	 (J.S. SHARMA) CHIEF D/MAN	 (ISHAN MANI) DY PM (CIVIL)	
B. D.U.S- LUCKNOW	DRG. NO. 01/B.D.U.S/MASKARARAO /NATHMALPUR/SAHARANPUR/2026 (SHEET NO. 1 OF 2)		

RECOMMENDED BY	APPROVED BY
 11/05/2026 (FARHAN BASIT) C.P.M. (DESIGN)	 11/05/26 (MITHILESH KUMAR) J.T.M. D. (DESIGN)