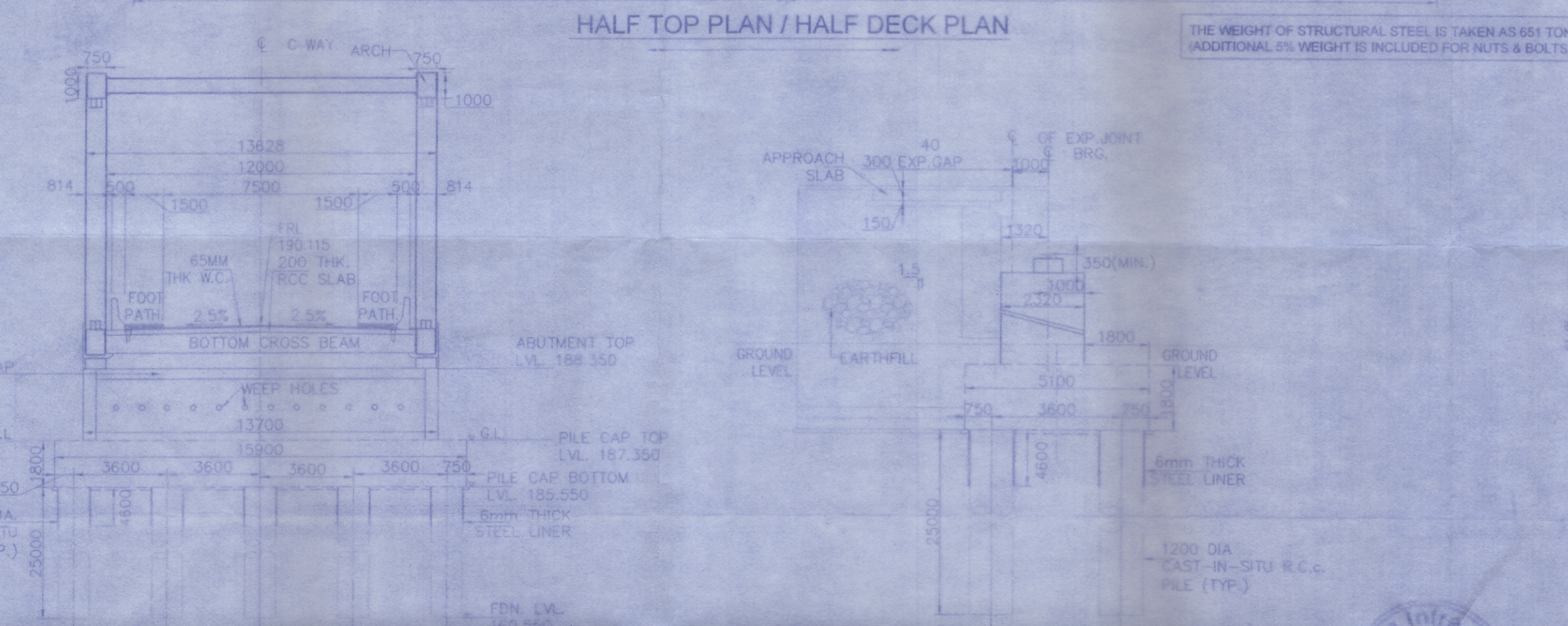
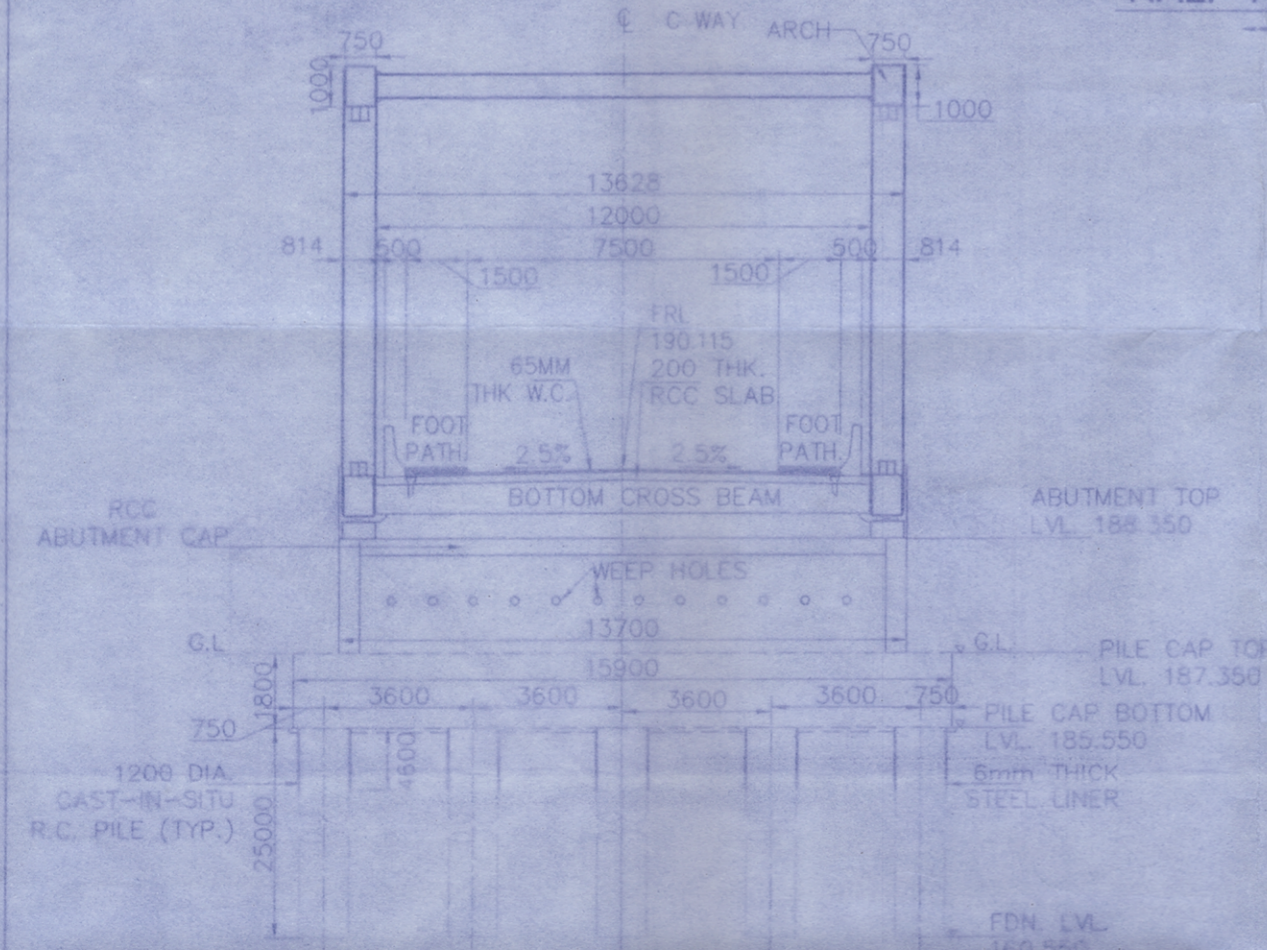


ELEVATION OF BRIDGE

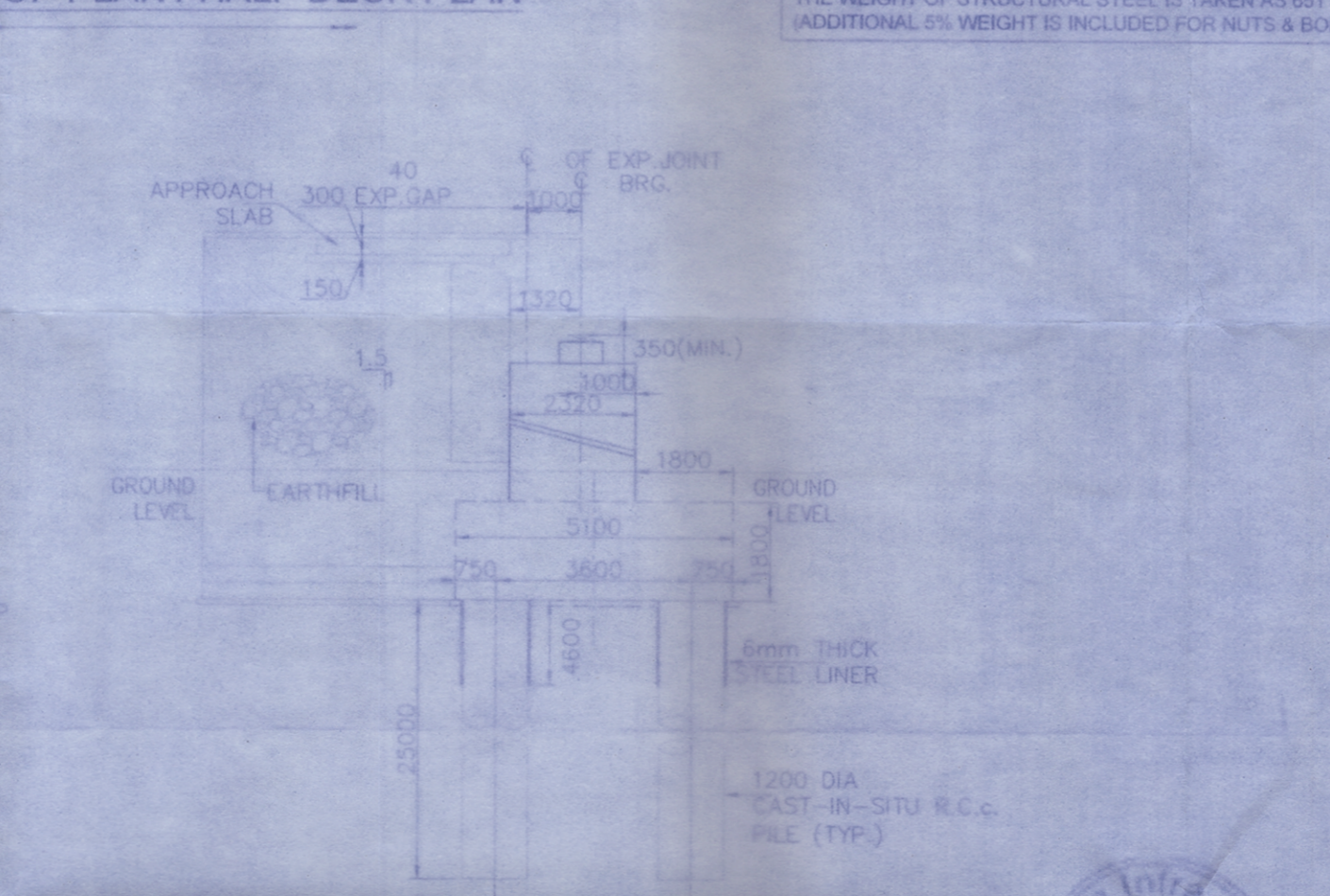


HALF TOP PLAN / HALF DECK PLAN

THE WEIGHT OF STRUCTURAL STEEL IS TAKEN AS 651 TON (ADDITIONAL 5% WEIGHT IS INCLUDED FOR NUTS & BOLTS)



TYPICAL CROSS SECTION OF ABUTMENT ALONG T-T AXIS



TYPICAL CROSS SECTION OF ABUTMENT ALONG L-L AXIS

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED. R.L.'S ARE IN METERS.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- REINFORCEMENT STEEL SHALL BE HYSD BARS (GRADE DESIGNATION Fe500) CONFORMING TO IS:1786.
- 600 THICK FILTER MEDIA BEHIND ABUTMENT SHALL BE PROVIDED IN CONFORMITY WITH APPENDIX 6 OF IRC:78.
- WEARING COAT SHALL BE OF CEMENT CONCRETE 65MM THICK AS PER MORTH PROVISIONS.
- QUALITY CONTROL SHALL CONFORM TO I.R.C.-SP:112-2017.
- CONCRETE GRADE IN VARIOUS COMPONENTS SHALL BE AS PER FOLLOWING DETAILS:
 - A- FOUNDATION
 - (a) PILE CAP M35
 - (b) PILE M35
 - B- SUB STRUCTURE
 - (a) ABUTMENT & TOP BEAM M35
 - (b) RETURN WALL & DIRT WALL M35
 - C- SUPER STRUCTURE
 - (a) DECK SLAB M40
 - (b) CRASH BARRIER M40
- SEISMIC PARAMETERS:-
 - (i) IMPORTANCE FACTOR = 1.2
 - (ii) SEISMIC ZONE = IV
- GEOTECHNICAL DATA:-
 - (i) ANGLE OF INTERNAL FRICTION, ϕ = 32°
 - (ii) DRY DENSITY OF EARTH, γ = 20.1 kN/m³
 - (iii) ANGLE, δ = 22.33°
 - (iv) LATERAL LOAD = 2400 TON
 - (v) VERTICAL PILE CAPACITY = 240.00 TON
- THE DIRECTION OF FLOW OF WATER IN CANAL IS AT 90° TO THE CENTER LINE OF THE BRIDGE.
- HYDRAULIC DATA PROVIDED BY DEPARTMENT:
 - (a) F.S.L. = 187.800 M.
 - (b) BED LVL. = 185.515 M.
- THE DESIGN DISCHARGE HAS BEEN TAKEN AS 5000 CUSECS (PROVIDED BY DEPARTMENT).
- THIS BRIDGE IS DESIGNED FOR TWO LANES OF CLASS A LOADING OR ONE LANE OF 70R WHICHEVER GOVERNS AS PER IRC 8:2017.
- PROTECTION WORKS AROUND ABUTMENTS AND GUIDE BUNDS SHALL BE DESIGNED AND CONSTRUCTED "AS PER ENGINEER IN CHIEF".
- ALL BEARINGS SHALL BE POT-PIFF TYPE.
- STRIP SEAL TYPE EXPANSION JOINT SHALL BE PROVIDED.
- 1000 P.V.C PIPE IN WEEP HOLES IN SLOPE 1:20 SHALL BE PROVIDED IN ABUTMENT, RETURN WALL A SPACING OF 1000/c BOTHWAY.
- THE WORK IS TO BE CARRIED OUT AS PER APPROVED RELEVANT DETAILED DRAWING FOR DIFFERENT COMPONENTS OF THE STRUCTURE.
- ALL STRUCTURE STEEL SHALL BE Fe-490 ISMB -600 SHALL BE Fe-410 (TENTATIVE).

U.P.S.B.C. NOTES:-

- THIS G.A.D. HAS BEEN PREPARED BY CONSULTING INFRA ENGINEERS HARYANA ON THE BASIS OF DATA REPORTED AND SUBMITTED BY P.M. B.C.U. SHAHJAHANPUR VIDE LETTER NO. 154/25144/B.C.U. SHAHJAHANPUR DATED 20-04-2026 AND RECOMMENDED G.A.D. PROVIDED ON 21-04-2026.
- IT IS RESPONSIBILITY OF FIELD UNIT TO FULFILL ALL THE CONDITIONS OF G.O. NO. 198/2026/1/1085720/2026/23-6099 (009)/26/2026 DATED 3-03-2026.
- THIS G.A.D. IS APPLICABLE IF ALL THE PROVISIONS UNDER FINANCIAL AND ADMINISTRATIVE SANCTION IS MET.
- THE PROPOSED TYPE, SIZE & DIMENSION OF ALL COMPONENT ALONG WITH THEIR CONSTRUCTION METHODOLOGY SHALL BE CHECKED AND CERTIFIED BY THE PROOF CONSULTANT WHO WILL FINALLY CHECK AND APPROVE ALL DESIGN DRAWING AND CONSTRUCTION METHODOLOGY.
- BEFORE START OF WORK NECESSARY PERMISSION SHALL BE TAKEN FROM ALL CONCERNED DEPARTMENT.

DRAWING NO. 01/GAD/BDU/SHARDA CANAL/KM. 5.639/SHAHJAHANPUR/2026/CH-010202

APPROVED
 (Mithlesh Kumar)
 Joint Managing Director (Planning/Design)

<p>CLIENT: UTTAR PRADESH STATE BRIDGE CORPORATION LTD. (UPSBC LTD.) Plot No-16, Pandit Madan Mohan Malaviya Road, Madan Mohan Marg, Lucknow, Uttar Pradesh 228001</p>				<p>DESIGN CONSULTANT: CONSULTING INFRA ENGINEERS ADDRESS: 2199, SECTOR-02, BAHADURGARH, HARYANA-124507 TEL: +91-7015448342 EMAIL: ciettd@yahoo.com, consultinginfraengineers@gmail.com</p>				<p>TITLE: CONSTRUCTION OF BRIDGE OVER SHARDA NAHAR (HARDOI BRANCH AT KM. 5.639) ON KHATIMA-PURANPUR ROAD NEAR DHAGA VILLAGE IN DISTT. PILIBHIT.</p>			
<p>APR. 2026 FOR APPROVAL</p>				<p>APR. 2026</p>				<p>APR. 2026</p>			
<p>AE B.C.U. SHAHJAHANPUR</p>				<p>P.M. B.C.U. SHAHJAHANPUR</p>				<p>G.M. LUCKNOW</p>			
<p>REV. DATE DESCRIPTION DRAWN</p>				<p>BCU - SHAHJAHANPUR</p>				<p>Original Size: A2 Sheet No: 02 OF 02 Drawing No: CIE/UPSBC/SHARDA/CH-5.639/GAD/01 Rev: R0</p>			