



- GENERAL NOTES:**
- ALL DIMENSIONS SHOWN IN THIS GAD ARE IN MM AND REDUCED LEVELS (W.R.T. MSL) ARE IN M UNLESS OTHERWISE SPECIFIED.
 - DO NOT STRUCTURE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - EXPOSURE CONDITION IS MODERATE.
 - STANDARD OF RAILWAY LOADING: 25T AXLE LOADING - 2008 STANDARD.
 - SEISMIC ZONE IS ZONE II.
 - EXISTING BRIDGE DETAILS ARE BASED ON DATA COLLECTED FROM SITE BY FIELD EXECUTIVES.
 - THE ENTIRE WORK SHALL BE CARRIED OUT AS PER THE INSTRUCTIONS AND TO THE SATISFACTION OF THE ENGINEER IN CHARGE AT SITE.
 - RAIL LEVEL, FORMATION LEVEL, ETC., SHOULD BE CROSS VERIFIED BY THE ENGINEER IN CHARGE BEFORE AND DURING EXECUTION OF WORK AT SITE AS PER LATEST APPROVED WORKING SECTION/PLANS AND OTHER CONNECTED DRAWINGS IF ANY.
 - THIS GAD IS SUBJECT TO THE SAME LEVELS AND ELEVATIONS, ALIGNMENT, GRADE & TRACK CENTER DISTANCE AS THAT OF APPROVED WORKING SECTION/WORKING PLAN AND YARD PLANS IF ANY.
 - ON TOP OF CONCRETE AT THE END OF EACH DAY'S WORK, DEPRESSION SHALL BE MADE TO FORM KEYS FOR ADEQUATE BOND FOR NEXT DAY CONCRETING.
 - NO CONSTRUCTION JOINT SHALL BE NORMALLY ALLOWED IN CONCRETE WITHOUT SPECIAL PRECAUTIONS AS PER RELEVANT CODES.
 - CONTROLLED CONSTRUCTION WITH WEIGH BATCHING SHALL BE USED FOR CONCRETE.
 - CURING OF ALL CONCRETE WORK AS PER RELEVANT CODES OF PRACTICE SHALL BE ENSURED.
 - UNDERGROUND CABLE ETC., IF ANY, SHALL BE REMOVED AND RE-ALIGNMENT BEFORE THE EXECUTION OF WORK STARTS. SBT CABLES SHALL BE PROTECTED AT SITE BY KRIDE. ALL PRECAUTIONARY STEPS MUST BE TAKEN ACCORDING TO TELECOMMUNICATION CIRCULAR NO. 17/2013, ISSUED BY RAILWAY BOARD VIDE LETTER NO. 2003/TELECOM/PT. DC, DATED 24.06.2013.
 - THE TYPE AND DEPTH OF THE FOUNDATION SHOWN IN GAD ARE BASED ON THE SOIL REPORT SUBMITTED AT THE TIME OF PREPARATION OF THIS GAD AND IT IS INDICATIVE ONLY. ACTUAL TYPE AND DEPTH WILL BE DECIDED BY THE ENGINEER-IN-CHARGE AS PER THE ACTUAL SOIL ENCOUNTERED AT SITE.
 - ALL STRUCTURAL DIMENSIONS OF SUBWAY ARE AS PER DESIGN AND OTHER STRUCTURES SHOWN IN THIS GAD ARE TENTATIVE. THE DIMENSIONS SHOWN IN THIS GAD ARE BASED ON THE PRELIMINARY DESIGN. THE DETAILED DESIGN/ DRAWING WILL BE PROCESSED SEPARATELY AFTER THE APPROVAL OF FGD.
 - SBC OF SOIL AT FOUNDATION LEVEL IS APPROX. 15.0T/50M FOR RCC BOX AND 15.0T/50M FOR RETAINING WALL SOIL IMPROVEMENT TO BE DONE WITH SAND & BOULDER FILLING.
 - ENGINEER INCHARGE SHALL ENSURE MAXIMUM CALCULATED FOUNDATION PRESSURE AT FOUNDATION LEVEL SHALL NOT EXCEED SAFE BEARING CAPACITY OF SOIL AT THAT LOCATION.
 - PROPER DRAINAGE ARRANGEMENTS HAVE TO BE PROVIDED TO LEAD THE WATER FROM RUB TO LOW LYING AREAS EITHER BY LAYING UNDERGROUND PIPES/ OPEN DRAINS WITH PROPER MAINTAINABILITY OR BY USING RAIN WATER HARVESTING TECHNIQUES AS PER CRP/BNW/IR/UB LETTER NO. SWR/W/20/POLICY/VOL IV, DATED 07.03.2020.
 - SUITABLE HEIGHT GAUGE TO BE PROVIDED ON EITHER SIDE OF RUB LOCATION AS PER STANDARD IR SPECIFICATION.
 - ALL THE FOLLOWING SAFETY MEASURES SHALL BE FOLLOWED.
 - DURING THE CONSTRUCTION OF THE PROPOSED BRIDGE PROPER SAFETY PRECAUTIONS TO BE TAKEN WHILE EXECUTING FOUNDATION WORK CLOSE TO THE EXISTING BRIDGE FOUNDATIONS INCLUDING IMPOSING SPEED RESTRICTIONS IF REQUIRED.
 - NECESSARY SHORING ARRANGEMENTS TO BE MADE TO PROTECT EXISTING BRIDGE STRUCTURE WHEREVER NECESSARY.
 - DURING EXECUTION OF WORK THE MATERIAL/EQUIPMENT SUCH AS RELEASED MATERIAL ETC., SHOULD NOT INFRINGE THE TRAIN TRAFFIC. ALL SAFETY MEASURES TO BE TAKEN BY ENGINEER IN CHARGE DURING EXECUTION.
 - SUITABLE SAFETY BARRICADING HAS TO PROVIDED WHENEVER WORK IS BEING EXECUTED PARALLEL TO THE RUNNING TRACK.
 - SUITABLE DRAINAGE ARRANGEMENT TO BE PROVIDED AS PER REQUIREMENT.
 - DIMENSIONS OF RETAINING WALLS SHOWN IN GAD ARE ONLY INDICATIVE AND TO BE FOLLOWED AS PER APPROVED DESIGN AND DRAWINGS.
 - WHEREVER SBC IS LESS THAN FOUNDATION PRESSURE TO IMPROVE THE SBC OF SOIL TWO LAYS OF SAND & BOULDER FILLING OF 300MM THICKNESS EACH TO BE LAID & COMPACTED BEFORE LEVELLING COURSE OF 150MM FOR RCC BOX, RETAINING WALL FOUNDATION.
- SPECIAL NOTES:**
- FORMATION LEVEL, ETC., SHOULD BE CROSS VERIFIED BY THE ENGINEER-IN-CHARGE BEFORE AND DURING EXECUTION OF WORK AT SITE, AS PER LATEST APPROVED WORKING SECTION/PLANS AND OTHER CONNECTED DRAWINGS IF ANY.
 - BEFORE EXECUTION OF WORK, ENGINEER IN CHARGE SHOULD ENSURE THAT THE MAXIMUM BASE PRESSURE AT FOUNDATION LEVEL FOR EACH ELEMENT OF BRIDGE IS LESS THAN THE SAFE BEARING CAPACITY OF SOIL AT THAT LOCATION.
 - SOIL IMPROVEMENT TO BE DONE: ENGINEER IN-CHARGE SHALL ENSURE THAT AFTER SOIL IMPROVEMENT, SBC OF SOIL BELOW THE BOX SHALL BE MORE THAN MAXIMUM BASE PRESSURE AT BOTTOM LEVEL OF RCC BOX i.e. 20.0T/50M.
 - ENGINEER IN-CHARGE SHOULD ENSURE THAT SUITABILITY OF THE EXISTING BRIDGE TO TAKE OF 25T LOAD DISPERSION FOR ITS ELEMENTS SUCH AS SUBSTRUCTURE AND FOUNDATION BEFORE TAKING UP PROPOSAL WORK.
 - THE EXTENSION OF THE PROPOSED BRIDGE SHALL BUTT TO EXISTING BRIDGE AND PROPER SEALING BETWEEN THE EXISTING AND PROPOSED BRIDGE WILL BE ENSURED TO AVOID THE SEEPAGE OF WATER.
 - ALL THE FOLLOWING SAFETY MEASURES SHALL BE FOLLOWED.
 - ADAPTABLE SAFETY MEASURES FOR RUNNING TRAINS SHALL BE ADOPTED WHILE DOING THE EARTH WORK BELOW THE TRACK.
 - DURING CONSTRUCTION OF THE BRIDGE, THE EXISTING TRACK SHALL BE PROTECTED SUITABLY BY IMPOSING NECESSARY SPEED RESTRICTION BY PROVIDING TEMPORARY ENGINEERING INDICATORS.
 - DURING THE CONSTRUCTION OF THE PROPOSED BRIDGE PROPER SAFETY PRECAUTIONS TO BE TAKEN WHILE EXECUTING FOUNDATION WORK CLOSE TO THE EXISTING BRIDGE FOUNDATIONS INCLUDING IMPOSING SPEED RESTRICTIONS IF REQUIRED.
 - THE GRADUAL RELEASE OF SPEED RESTRICTION SHALL BE AS PER PARA 6.3 (1) (f) OF IRPM-2020.
 - NECESSARY SHORING ARRANGEMENTS TO BE MADE TO PROTECT EXISTING BRIDGE STRUCTURE WHEREVER NECESSARY.
 - JOINT PROCEDURE ORDER ON SAFETY RELATED ISSUES PERTAINING TO WORK SITE IN CONSTRUCTION.
 - PROJECTS (IPO NO. W-338/SAFETY PRECAUTION, DT: 18.02.2011) ISSUED VIDE CTE LR.NO.SWR/W-247/SAFETY AT WORK SPOT DT: 20.06.2017 HAS TO BE STRICTLY FOLLOWED.
 - DURING EXECUTION OF WORK, THE MATERIAL/EQUIPMENT SUCH AS RELEASED MATERIAL ETC. SHOULD NOT INFRINGE THE TRAIN TRAFFIC. ALL SAFETY MEASURES TO BE TAKEN BY ENGINEER IN CHARGE DURING EXECUTION.
 - SUITABLE SAFETY BARRICADING HAS TO BE PROVIDED WHENEVER WORK IS BEING EXECUTED PARALLEL TO THE RUNNING TRACK.
 - NECESSARY PROTECTIVE ARRANGEMENTS SHALL BE MADE BY KRIDE IN CONSULTATION WITH SBC DIVISION ELECTRICAL TRD/BANCH TO AVOID ANY ELECTRICAL INDUCTION DURING EXECUTION OF PROPOSED WORK.
- REFERENCE:**
- WEEP HOLES AS PER PARA 7.6 OF BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - RCC BOX AS PER DESIGN NO.
 - RETAINING WALL AS PER DESIGN.
 - HEIGHT GAUGE AS PER RDSO/M-0001.
 - BALLAST RETAINER AS PER DESIGN AND/OR LITHOLOGIC WITH THE BOX.
 - BACKFILL MATERIAL BEHIND RCC BOX AS PER PARA 7.5 OF IRIS BRIDGE SUBSTRUCTURE & FOUNDATION CODE.
 - DRAINAGE ARRANGEMENTS AS PER COMPLETION DRAWINGS.

GENERAL ARRANGEMENT DRAWING

SOUTH WESTERN RAILWAY

RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

BENGALURU DIVISION

BAIYAPPANAHALLI - HEELAE SECTION OF BSRR C-4

PROPOSED EXTENSION OF EXISTING RUB NO 477A AT IR CH:184+055 (BSRR CH:1+266.16) AS 1 x 4.0 x 3.75m (3.6m CLEAR HEIGHT)

RCC BOX(SKEW 17°) ON OLD IR SIDE OF THE

EXG. BRIDGE OF 1 x 4.0 x 3.6 RCC BOX AT IR KM 184+055 BETWEEN BAIYAPPANAHALLI 'A' PANEL HOSUR STATIONS.

AUTHORITY OF WORK: AS PER BSRR DFR

DRG.NO: C-04008-IR-CR4-C-UB-477A-10-2002-B

K RIDE DRG.NO: KRIDE/BSRR/C-4/BR/OXX/2024

HQ.DRG.NO: SCALE - 1 : 100

CONCEPTUAL DRAWINGS

GC/K-RIDE

K-RIDE

FOR GC

FOR K-RIDE





