

**DETAILS OF
 ABT CAP**

600 mm Thick Well
 Hand Packed Boulder

This drawing is approved by Chief Engineer Project Dantak vide Noting Sheet No. 2215/Bs/6w/ E-2. Wk dt 13 Mar 2023. and issued for Construction.

Naresh K. P.
 EE(CW)
 SO-2(MMS)
 For Chief Engineer

- NOTE:**
1. ALL DIMENSIONS ARE IN MM AND ALL LEVELS IN METRE UNLESS OTHERWISE SPECIFIED.
 2. HIGH YIELD STRENGTH DEFORMED BAR OF GRADE Fe 500 CONFORMING TO IS 1786-1985 SHALL BE USED AS REINFORCEMENT.
 3. BASE PRESSURE IS CALCULATED AS 33 TSDM UNDER ABUTMENTS. THE ENDOCHARGE AT SITE SHOULD ENSURE THAT THE SOIL MET WITH IS CAPABLE OF WITHSTANDING ABOVE PRESSURE DURING EXECUTION.
 4. DEPTH OF FOUNDATION SHOULD BE MINIMUM 2 METRE BELOW BED LEVEL OR SCOUR LEVEL WHICH EVER IS LOWEST.
 5. ANGLE OF REPOSE FOR BACK FILL SHALL NOT BE LESS THAN 30° BACK FILL SHOULD BE AS PER THE CLAUSE 710.14 IRC 76:2014. ROAD BRIDGES FOUNDATIONS AS STRUCTURE CODE.
 6. WEEP HOLES SHALL BE PROVIDED WITH 100 MM DIA PVC RIGID PIPES IN ABUTMENTS AND FOR RETURN WALL HORIZONTALLY AND VERTICALLY AT 1 METRE OC IN A STAGGERED PATTERN ABOVE LOW WATER LEVEL SURFACING PRECAUTIONS ARE TO BE TAKEN WHILE CONCRETING AROUND THE PIPE WITHOUT BREAKING THE PIPE AND INSURING ADEQUATE COVER TO THE REINFORCEMENT.
 7. EXPOSURE CONDITION AS PER IRC 78:2014.
 8. DESIGN CRITERIA
 a) IRC 82:2014
 b) IRC 78:2014
 c) IRC 112:2011

1. ABUTMENT CAP IS TO BE CASTED AFTER FINALISATION OF PERISISTAL DRAWING OF BAILEY BRIDGE.

2. DETAILS OF APPROACH SLAB SHALL BE PROVIDED AS PER Q. 214.2 OF IRC 82:2014

LEGEND:-

- FINL - FINISHED ROAD LEVEL
- GL - GROUND LEVEL
- SL - SCOUR LEVEL
- TOP - TOP OF FOUNDATION
- BOF - BOTTOM OF FOUNDATION
- PROP - PROPOSED
- EXP - EXPANSION
- JT - JOINT
- CL - CENTERLINE
- AS - ASBESTROS
- HAUT - HAUT
- GRADE OF CONCRETE
- LEVELLING COURSE - PCC 1:3:6
- SLAB STRUCTURE - W20
- NOMINAL COVER TABLE
- EXPOSURE CONDITION - SEVERE
- EARTH FACE - 75 MM
- NON EARTH FACE - 45 MM

ISSUED FOR CONSTRUCTION

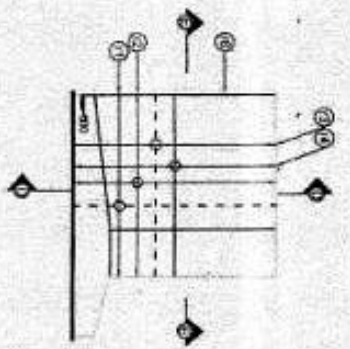
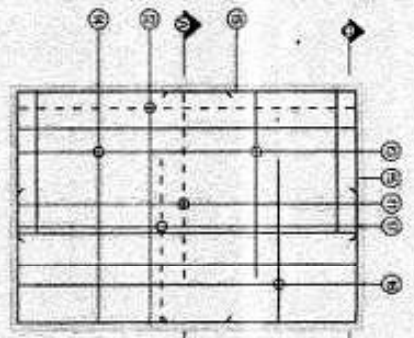
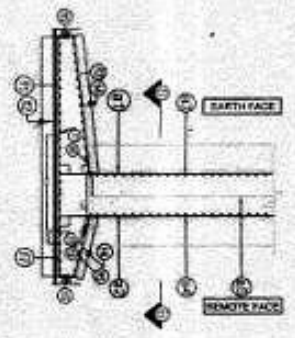
CHIEF ENGINEER
 PROJECT DANTRK
 ROYSTER ROAD ORGANISATION

TITLE :-

GENERAL ARRANGEMENT DRAWING

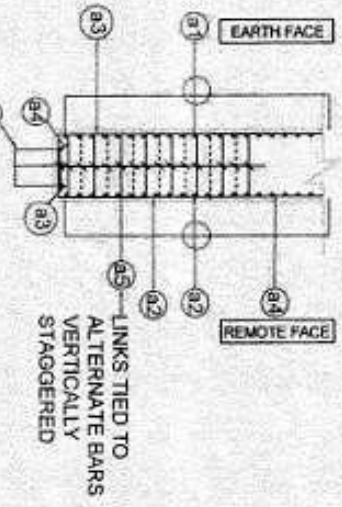
3 - 10 MTR HEIGHT TYPICAL ABUTMENT OF SPAN 60' - 90' BAILEY BRIDGE WITH SAFE BEARING CAPACITY OF SOIL AS 30 T/ SQM

DRG. NO.	DATE	SHEET NO.	SCALE
		1/2	AS SHOWN

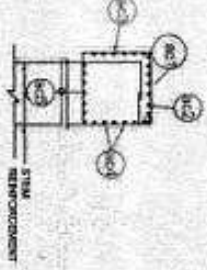


REINFORCEMENT DETAILS OF FOOTING PLAN

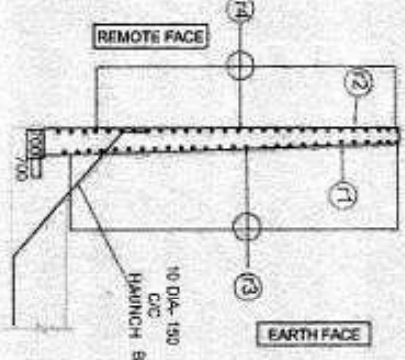
SECTION C-C



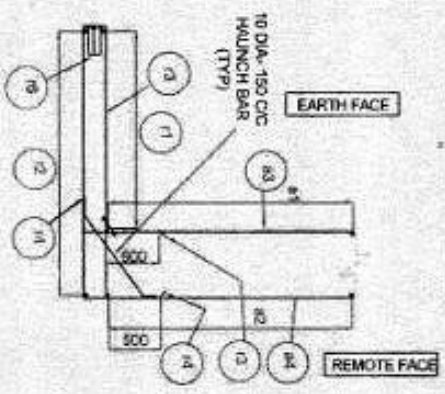
SECTION B-B



REINFORCEMENT DETAILS OF ABUTMENT CAP



SECTION D-D RETURN WALL



SECTION E-E

This drawing is approved by Chief Engineer for contact vide Northy Sheet No. 2215/00/5m/Ex-20 dated 13 Mar 2023, and issue for construction.

Noted App.
 EECM
 SO-2(Mks)
 For Chief Engineer

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE DRAWING SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS BE FOLLOWED.
 3. CONCRETE ACCORDATE FOR CONCRETE SHALL CONSIST OF HAND CRUSHED STONE OF MAXIMAL SIZE 20 MM AND SHALL BE PERFECTLY CLEANED AND WELL DRAINED.
 4. REINFORCEMENT BARS SHALL BE TOR STEEL, Fe-415 GRADE. CONCREND TO IS:1786 OF 3000.
 5. REINFORCEMENT SHALL BE CLEARED AND FREE FROM OIL, MUD, SCALE ETC AND SHALL BE BENT COLD TO THE SIZES AND DIMENSIONS INDICATED AND SHALL BE PLACED EXACTLY AS SHOWN.
 6. ALL INTERSECTION OF BARS SHALL BE SECURELY BOUND WITH NO. 16 GALVANIZED PLASTER WIRE.
 7. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
 8. REINFORCEMENT DETAILS OF FOOTING SHALL BE PROVIDED AFTER FINALIZATION OF SLEEVES.
 9. LAPS IN REINFORCEMENT BARS SHALL BE PROVIDED AS FAR AS POSSIBLE. LAPS MAY BE PROVIDED, UNDESIRABLE HOWEVER IN SUCH CASES.
 10. ALL BARS SHALL BE PROVIDED AS PER CLAUSE 16.24 OF IS:1786 FOR Fe-415 STEEL AND FOR ALL GROUPS OF CONCRETE (FOR LESS THAN 5% OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA).

DIAMETER OF BAR	LAP LENGTH FOR REINFORCEMENT BOND CONNECTION
8MM	245 MM
10MM	304 MM
12MM	357 MM
16MM	416 MM
20MM	475 MM
25MM	534 MM

FOR UNDESIRABLE BOND CONNECTION THE ABOVE VALUES SHOULD BE MULTIPLIED BY COEFFICIENT 'X'.
 15. FOR INCREASE IN PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA OF THE ABOVE WALLS SHOULD BE FURTHER MULTIPLIED BY COEFFICIENT MENTIONED BELOW.

PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA	COEFFICIENT
<25%	1
25% - 33%	1.10
33% - 50%	1.40

16. NOT MORE THAN 5% OF REINFORCEMENT BARS SHALL BE LAPPED AT ANY LOCATION.

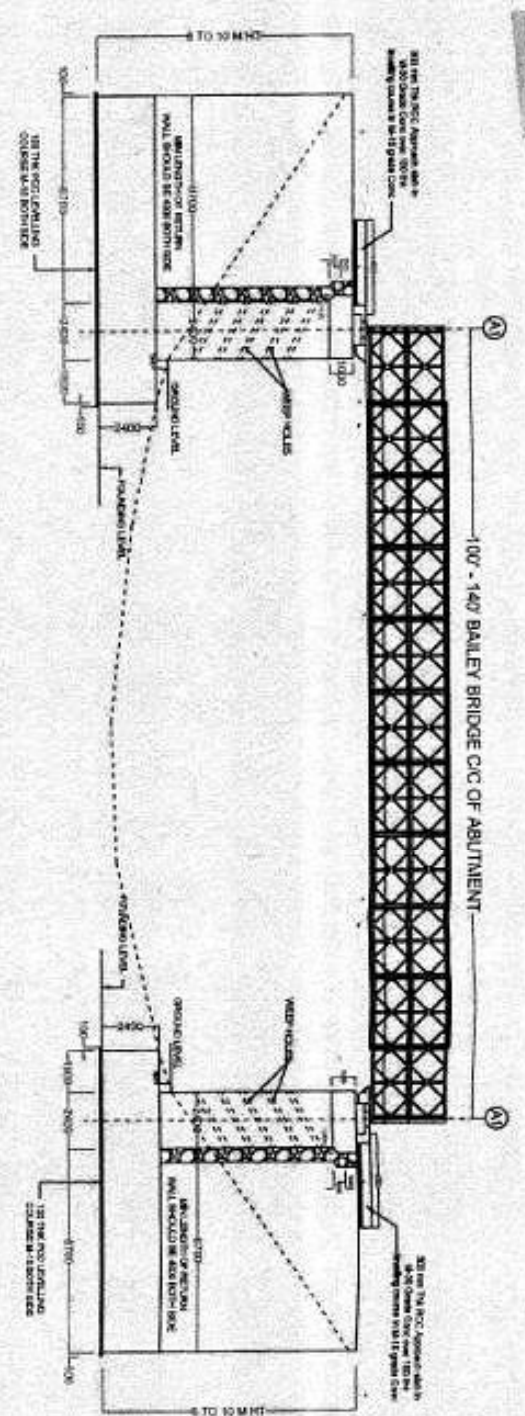
LEGEND:
 TOP BAR (TOP) - - - - -
 NOT TOP BAR (BOT) - - - - -
 SPACE OF CONCRETE - - - - -
 SUB STRUCTURE - - - - -
 INTERNAL CORNER BARS - - - - -
 EXPOSED CONNECTION - SEVERE
 EXPOSED CONNECTION - MODERATE
 EXPOSED CONNECTION - MINOR
 NON EXPOSED CONNECTION - MODERATE
 NON EXPOSED CONNECTION - MINOR

ISSUED FOR CONSTRUCTION

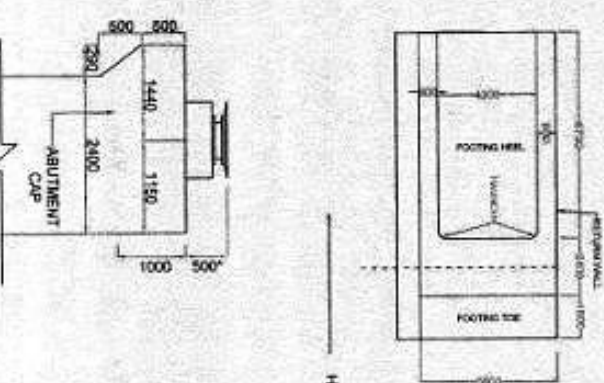
CHIEF ENGINEER
 PROJECT DANTAK
 BRIDGE ROAD OMSAVALAN

TITLE: REINFORCEMENT DETAILS FOR
 4-10 FTB NORTH TYPICAL ABUTMENT OF SPAN
 40-50' SLEEVES BRIDGE WITH SAFE BEHAVING
 CAPACITY OF 500 AS 31.7 / 50A

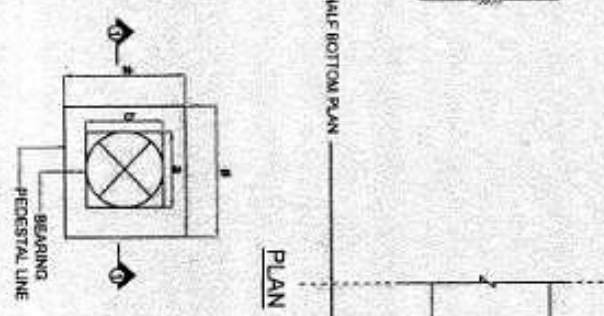
DWG NO	DATE	SHEET NO	SCALE
		26	AS SHOWN



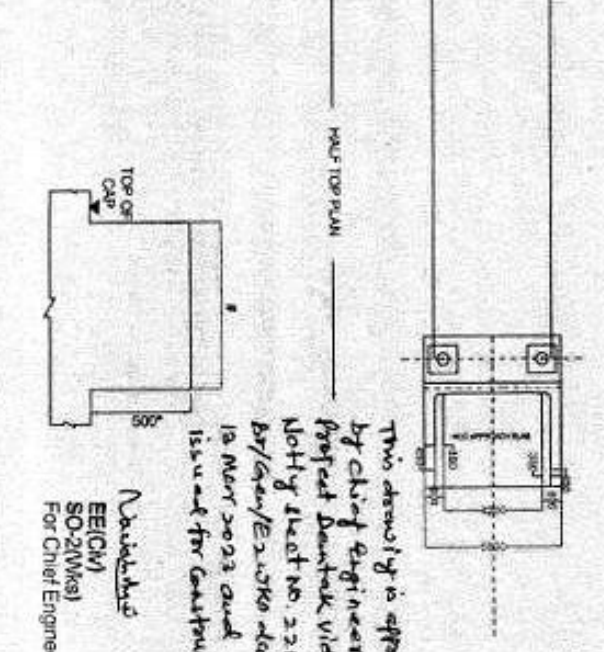
SECTIONAL ELEVATION OF BRIDGE



DETAILS OF ABUTMENT CAP



DETAILS PLAN OF PEDESTAL



SECTION 1-1

This drawing is approved by Chief Engineer Project Dantak vide No. 22151/Br/Gen/E-2020 dated 19 Nov 2023 and issued for construction.

Verified by EECM/ SO-2(M/S) For Chief Engineer

NOTE:

1. ALL DIMENSIONS ARE IN MM AND ALL LEVELS IN METRE UNLESS OTHERWISE SPECIFIED.
2. HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe 500 COMP-RUNNING TO IS 1786-1985 SHALL BE USED AS REINFORCEMENT.
3. BASE PRESSURE IS CALCULATED AS 30 T/SQM UNDER ABUTMENTS. THE ENGINEER-IN-CHARGE AT SITE SHOULD ENSURE THAT THE SOIL MET WITH IS CAPABLE OF WITHSTANDING ABOVE PRESSURE DURING EXERCUTION.
4. DEPTH OF FOUNDATION SHOULD BE MINIMUM 2 METRE BELOW BED LEVEL OR SCOUR LEVEL, WHICHEVER IS LOWEST.
5. ANGLE OF REPOSE FOR BACK FILL SHALL NOT BE LESS THAN 30° BACK FILL SHOULD BE AS PER THE CLAUSE 710.1.4 IRC 75:2014 ROAD BRIDGES FOUNDATIONS & SUBSTRUCTURE CODE.
6. WEEP HOLES SHALL BE PROVIDED WITH 100 MM DIA. PVC RIGID PIPES IN ABUTMENTS AND FOR RETURN WALL HORIZONTAL PATTERN ABOVE LOW WATER LEVEL. SUFFICIENT PRECAUTIONS ARE TO BE TAKEN WHILE CONCRETING AROUND THE PIPES WITHOUT BRIDGING THE PIPE AND ENSURING ADEQUATE COVER TO THE REINFORCEMENT.
7. EXPOSURE CONCRETION AS PER IRC 75:2014.
8. DESIGN CRITERIA:
 - a) IRC 75:2014
 - b) IRC 6:2014
 - c) IRC 112:2011
9. DETAILS OF APPROACH SLAB SHALL BE PROVIDED AS PER CL 274.2 OF IRC 8:2014.
10. ABUTMENT CAP IS TO BE CASTED AFTER FINALISATION OF PEDESTAL DRAWING (DIMENSION) OF BAILEY BRIDGE.

LEGEND:-

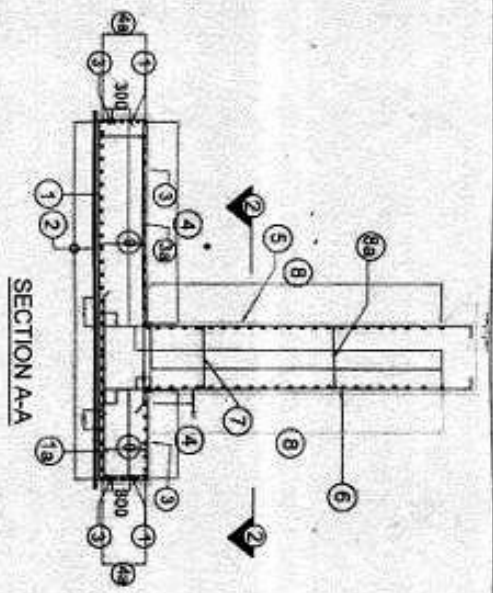
- FINL - FINISHED ROAD LEVEL
- GR - GROUND LEVEL
- SC - SCOUR LEVEL
- TOP - TOP OF FOUNDATION
- BOF - BOTTOM OF FOUNDATION
- PROP - PROPOSED
- EXP - EXPANSION
- JT - JOINT
- CL - CENTER LINE
- ABUT - ABUTMENT
- GRACE OF CONCRETE
- REINFCG CONCR - RA-11
- SUB STRUCTURE - 16:30
- NOMINAL COVER TABLE
- EXPOSURE CONCRETION - SEVERE
- EARTH FACE - 75 MM
- NON EARTH FACE - 45 MM

CHIEF ENGINEER
 PROJECT DANTAK
 BORDER ROAD ORGANISATION

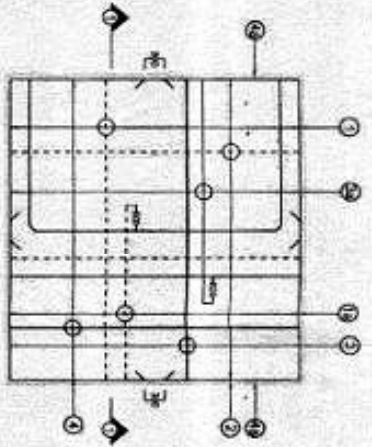
GENERAL ARRANGEMENT DRAWING

8 - 10 MTR HEIGHT TYPICAL ABUTMENT OR SPAN
 100' - 140' BAILEY BRIDGE WITH SWE BEARING
 CAPACITY OF SOIL AS TO 1 / SOM

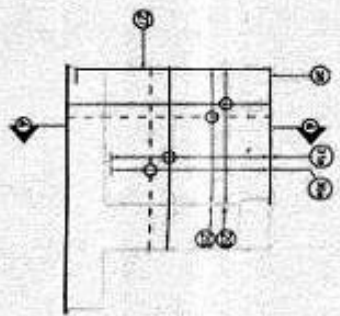
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		1/2	AS SHOWN



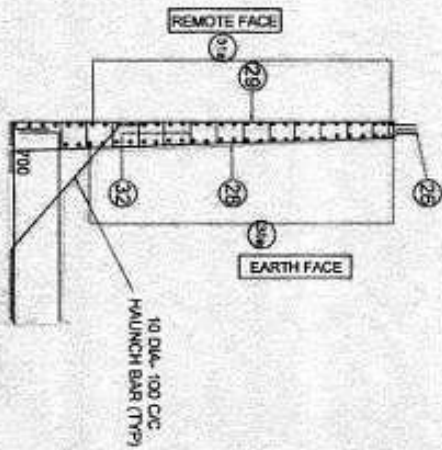
SECTION A-A



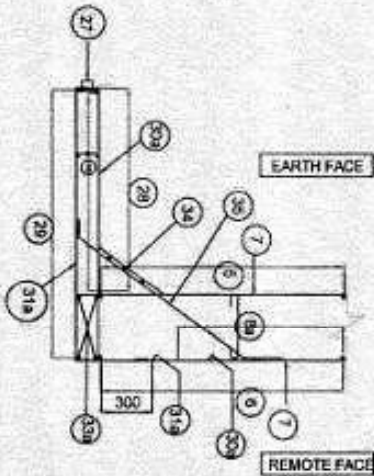
REINFORCING DETAILS OF FOOTING PLAN



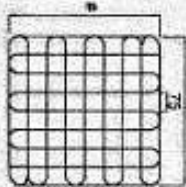
RC DETAILS OF RETURN WALL



SECTION 4-4



RC DETAILS OF ABUTMENT AND RETURN WALL



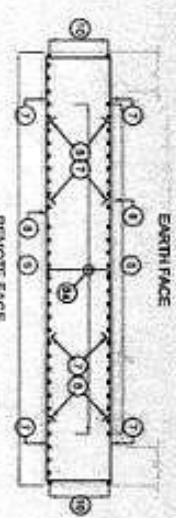
T-10 MESH REIN TYPE-A (UNDER BEARING)

This drawing is approved by Chief Engineer (Road) Dantak vide No. 8/2023/CE (P) Dantak dated 15/08/2023, and issued for construction.

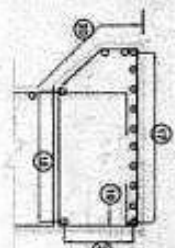
Needle SO-2(M/S) For Chief Engineer

DIA OF BAR	LAP LENGTH FOR FAVORABLE BOND CONDITION
6MM	236 MM
10MM	326 MM
12MM	366 MM
16MM	516 MM
20MM	646 MM
25MM	810 MM

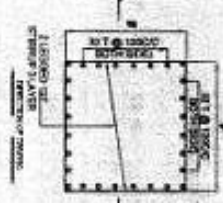
PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA	COEFFICIENT
<25%	1
25% - 50%	1.15
>50%	1.40



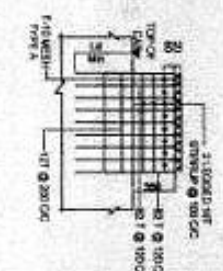
SECTION 2-2



RC DETAILS OF ABUTMENT CAP



PLAN RC DETAILS OF PEDESTAL



SECTION 3-3

NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE DRAWING SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS BE FOLLOWED.
 3. CONCRETE AGGREGATE FOR CONCRETE SHALL CONSIST OF HARD QUARRIED STONE OF MAXIMUM SIZE 20 MM AND SHALL BE PERFECTLY CLEANED AND WELL GRADED.
 4. REINFORCEMENT BARS SHALL BE TOR STEEL, IN-500 GRADE. COMBINATION TO 15:17% OF 20% REINFORCEMENT ETC AND SHALL BE BENT COLD TO THE 90° AND DIMENSIONS INDICATED AND SHALL BE PLACED EXACTLY AS SHOWN.
 5. ALL INTERSECTIONS OF BARS SHALL BE SECURELY BOUND WITH NO W/ GRADE / JANGLE WIRE.
 6. THIS DRAWING SHALL BE READ IN CONNECTION WITH ALL RELEVANT DRAWINGS.
 7. REINFORCEMENT DETAILS OF PEDESTAL SHALL BE PROVIDED AFTER FINALIZATION OF BAILEY PROVISION.
 8. LAPS IN REINFORCEMENT BARS SHALL BE PROVIDED AS FAR AS POSSIBLE. LAPS MAY BE PROVIDED IF UNAVOIDABLE HOWEVER IN SUCH CASES:
 a. BASIC LAP LENGTH AS PER CLAUSE 14.2.4 (RC-11.2.001), FOR Fc 80% STEEL AND 60% GRADE OF CONCRETE, FOR LESS THAN 25% OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA)
 b. FOR UNFAVORABLE BOND CONDITION THE ABOVE VALUES SHOULD BE MULTIPLIED BY COEFFICIENT 1.15
 c. FOR INCREASE IN PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA OF THE ABOVE VALUES SHOULD BE FURTHER MULTIPLIED BY COEFFICIENT MENTIONED BELOW.

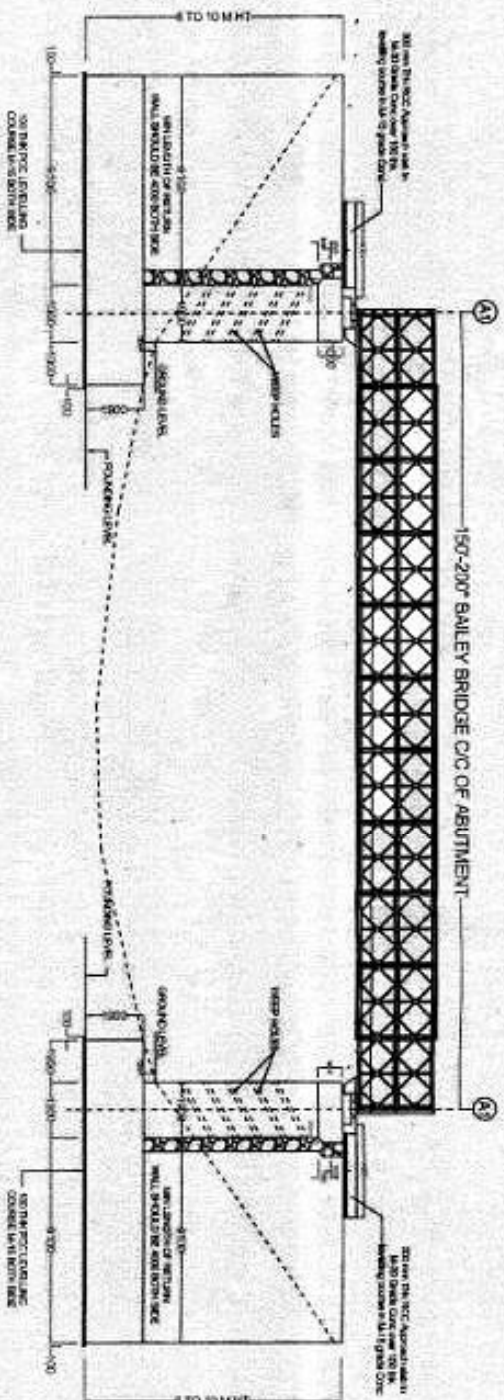
COEFFICIENT	PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA
1	<25%
1.15	25% - 50%
1.40	>50%

1. NOT MORE THAN 50% OF REINFORCING BARS SHALL BE LAPPED AT ANY LOCATION.
 2. DIMENSION OF PEDESTAL WILL BE FINALIZED AFTER DRAWING OF PEDESTAL/BAILEY.
LEGEND:
 1. 100% BOTTOM BARS (BOT) - - - - -
 2. 100% TOP BARS (TOP) - - - - -
 3. GRADE OF CONCRETE - 150
 4. MINIMUM COVER TO REINFORCEMENT - 75MM
 5. EARTH FACE - 75MM
 6. NON EARTH FACE - 25MM

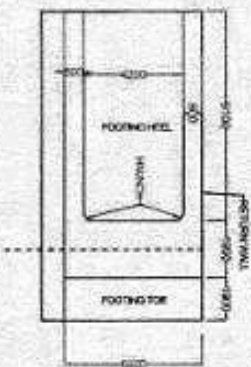
ISSUED FOR CONSTRUCTION
 PROJECT ENGINEER
 PROJECT DANTAK
 BORDER ROAD ORGANISATION

TITLE : REINFORCEMENT DETAILS FOR
 6 - 10 METRE HEIGHT TYPICAL ABUTMENT OF GRAVITY
 100 - 150 BULLET BRIDGE WITH SAFE BEARING
 CAPACITY OF 500 AS TO T-1000

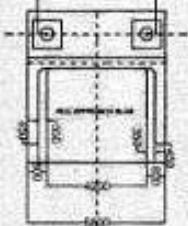
DWG NO.	DATE	SHEET NO.	SCALE
		22	AS SHOWN



SECTIONAL ELEVATION OF BRIDGE

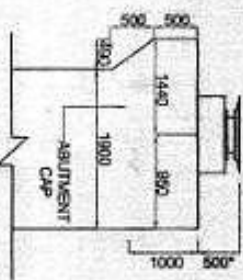


HALF BOTTOM PLAN

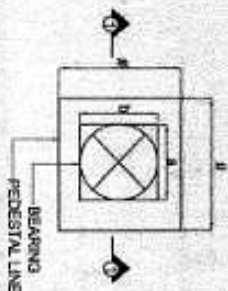


HALF TOP PLAN

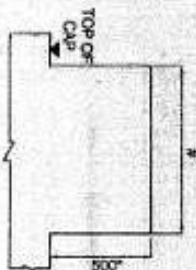
PLAN



DETAILS OF ABUTMENT CAP



DETAILS PLAN OF PEDESTAL



SECTION 1-1

Thin detail is approved by Chief Engineer, Project Dantak vide Noting sheet No 22151/B/Gen/Ex/10 dated 13 Nov 2023, and issued for construction.

Note: EECW (SO-21/WMS) For Chief Engineer

NOTE:

1. ALL DIMENSIONS ARE IN MM AND METRE UNLESS OTHERWISE SPECIFIED
2. HIGH YIELD STRENGTH DEFORMED 400 MPa CONFIRMING TO IS 1786-1985 S.
3. REINFORCEMENT IS AS PER SPECIFICATION.
4. BASE PRESSURE IS CALCULATED AS 30 T/CUM UNDER ABUTMENTS. THE ENGAGEMENT AT SITE SHOULD ENSURE THAT THE SOIL MET WITH IS CAPABLE OF WITHSTANDING ABOVE PRESSURE DURING EXECUTION.
5. DEPTH OF FOUNDATION SHOULD BE MINIMUM 2 METRE BELOW BED LEVEL OR SCOUR LEVEL WHICH EVER IS LOWEST.
6. ANGLE OF REPOSE FOR BACK FILL SHALL NOT BE LESS THAN 300 BACK FILL SHOULD BE AS PER THE CAUSE 71614, IRC 78-2014, ROAD BRIDGES FOUNDATIONS & SUBSTRUCTURE CODE.
7. NEED HOLES SHALL BE PROVIDED WITH 100 MM DIA PVC RIGID PIPES IN ABUTMENTS AND FOR RETURN C/C IN A STAGGERED PATTERN ABOVE LOW WATER LEVEL. SUFFICIENT PRECAUTIONS ARE TO BE TAKEN WHILE CONCRETING AROUND THE PIPE WITHOUT BREAKING THE PIPE AND ENSURING ADEQUATE COVER TO THE REINFORCEMENT.
8. EXPOSURE CONDITION AS PER IRC 78-2014.
9. DESIGN CRITERIA:
 - a) IRC 62-2014
 - b) IRC 78-2014
 - c) IRC 71-2011
10. DETAILS OF APPROACH SLAB SHALL BE PROVIDED AS PER 24-2 OF IRC 62014.
11. ABUTMENT CAP IS TO BE CASTED AFTER FINISHING OF PEDESTAL DRAWING (CONCRESSION) OF BAILEY BRIDGE.

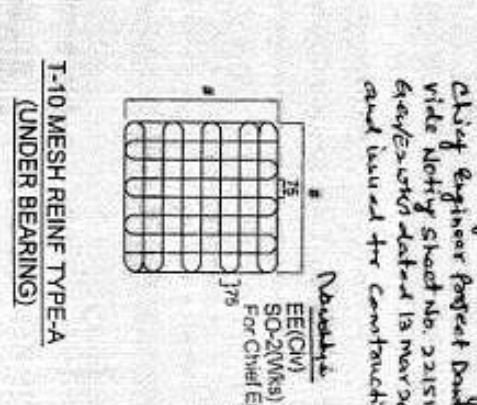
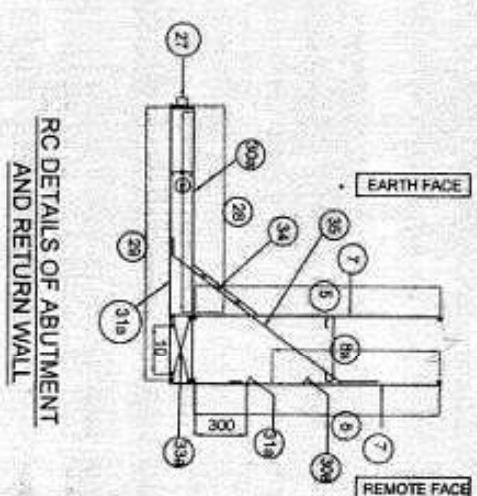
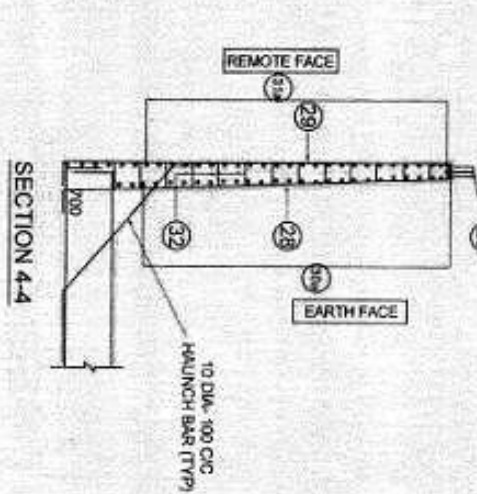
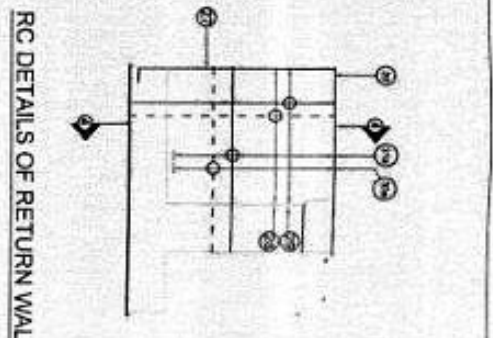
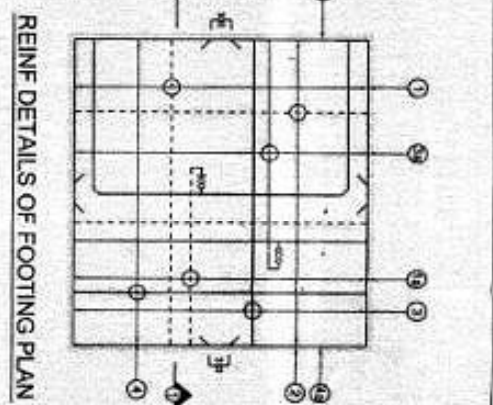
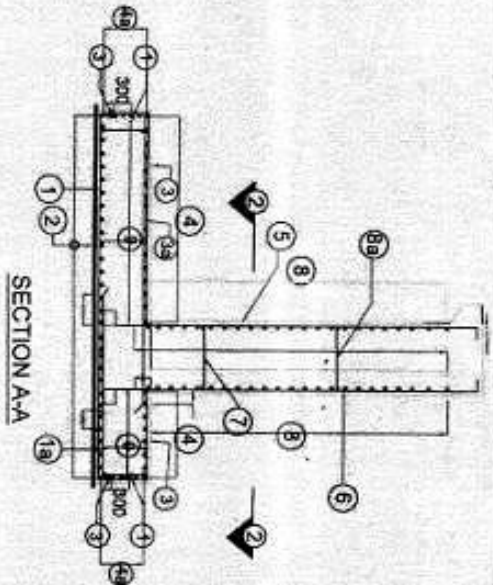
LEGEND:

- FINISHED ROAD LEVEL
 - GROUND LEVEL
 - SCOUR LEVEL
 - TOP OF FOUNDATION
 - BOTTOM OF FOUNDATION
 - PROPOSED
 - EXPANSION
 - JOINT
 - CENTRE LINE
 - ABUTMENT
 - GRADE OF CONCRETE
 - LEVELLING COURSE - M-15
 - SUB STRUCTURE - M-30
 - MINIMUM COVER TABLE
 - EXPOSURE CONDITION - SEVERE
 - EARTH FACE - 75 MM
 - NON EARTH FACE - 40 MM
- ISSUED FOR CONSTRUCTION

CHIEF ENGINEER
 PROJECT DANTAK
 BORDER ROAD ORGANISATION

GENERAL ARRANGEMENT DRAWING ✓
 5 - 10 MTR HEIGHT TYPICAL ABUTMENT OF SPAN 157 - 207 BAILEY BRIDGE WITH SAFE BEARING CAPACITY OF SOIL AS 30 T / SQM

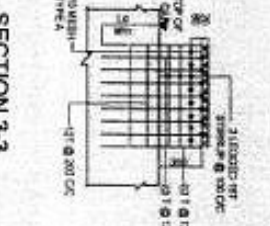
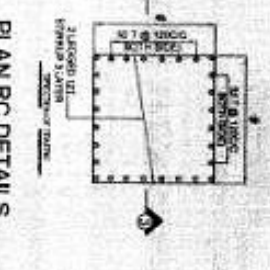
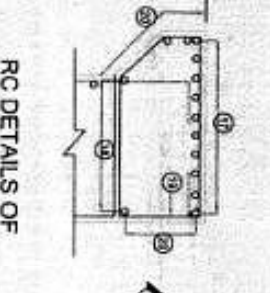
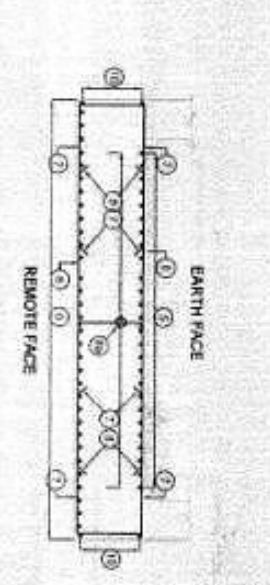
DWG NO	DATE	SHEET NO	SCALE
		12	AS SHOWN



This drawing is approved by Chief Engineer, Project Dantak vide letter No. 2151/By dated 13 May 2023, and issued for construction.

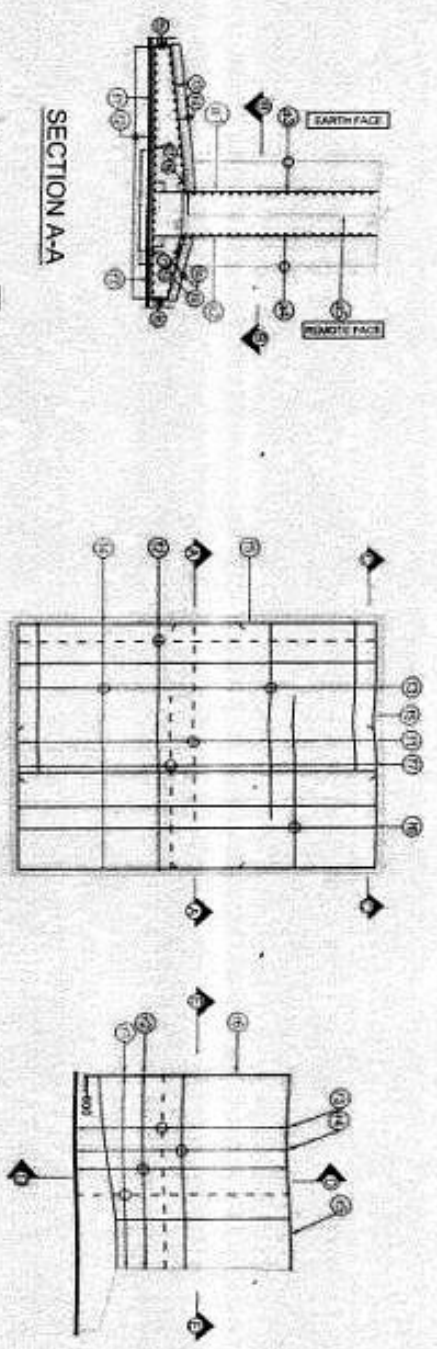
DA OF BAR	* LAP LENGTH FOR FAVORABLE BOND CONDITION
8MM	285 MM
10MM	324 MM
12MM	389 MM
16MM	514 MM
20MM	649 MM
25MM	810 MM

PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA	<25%	31%	52%
COEFFICIENT	1	1.15	1.40

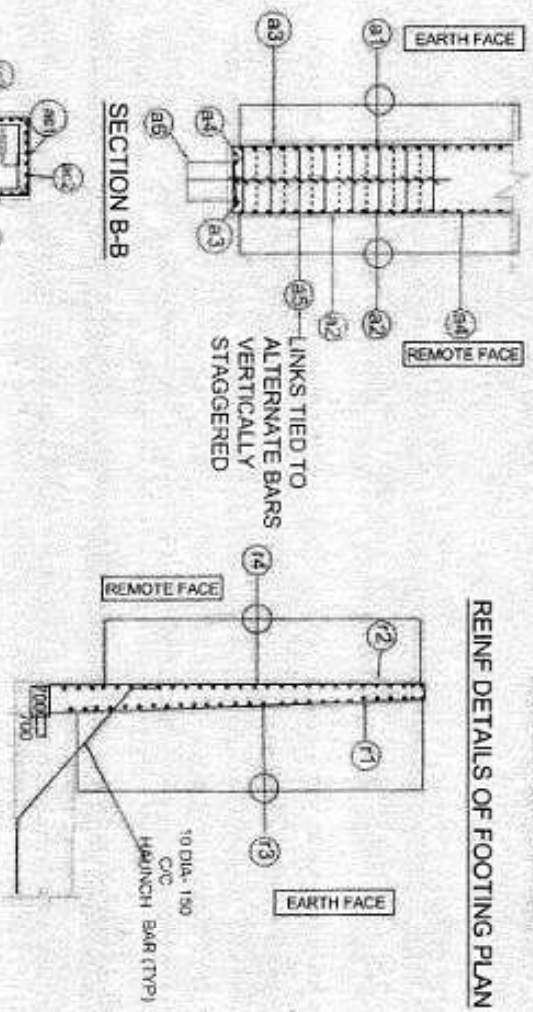


NOTE:
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE DRAWING SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS BE FOLLOWED.
 3. COARSE AGGREGATE FOR CONCRETE SHALL CONSIST OF HARD CRUSHED STONE OF MAXIMUM SIZE 20 MM AND SHALL BE PERFECTLY CLEANED AND WELL GRADED.
 4. REINFORCEMENT BARS SHALL BE TOR STEEL, Fe-500 GRADE CONFORMING TO IS-1786 OF 2008. REINFORCEMENT SHALL BE CLEANED AND FREE FROM OIL, MUD, SCALE ETC AND SHALL BE BENT COLD TO THE SHAPES AND DIMENSIONS INDICATED AND SHALL BE PLACED EXACTLY AS SHOWN.
 5. ALL INTERSECTIONS OF BARS SHALL BE SECURELY BOUND WITH NO 15 GAUGE PLATE WIRE.
 6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELATED DRAWINGS.
 7. REINFORCEMENT DETAILS OF PEDESTAL SHALL BE PROVIDED AFTER CONSULTATION OF DAILEY BRIDGE/SCHEMATIC DESIGNER.
 8. LAPS IN REINFORCEMENT BARS SHALL BE AVOIDED AS FAR AS POSSIBLE. LAPS MAY BE PROVIDED IF UNAVOIDABLE HOWEVER IN SUCH CASES:
 a. BOND LAP LENGTH AS PER CLAUSE 36.2.4 OF IS-1786 FOR Fe-500 STEEL AND 40D GRADE OF CONCRETE FOR LESS THAN 25% OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA.
 b. FOR UNFAVORABLE BOND CONDITION THE ABOVE VALUES SHOULD BE MULTIPLIED BY COEFFICIENT 1.4.
 c. FOR INCREASE IN PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA OF THE CONCRETE THE ABOVE VALUES SHOULD BE FURTHER MULTIPLIED BY COEFFICIENT MENTIONED BELOW.

DWG NO	DATE	SHEET NO	SCALE
4-10		22	AS SHOWN



REINF DETAILS OF FOOTING PLAN



SECTION D-D RETURN WALL

SECTION E-E

REINFORCEMENT DETAILS OF ABUTMENT CAP

NOTE:

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. THE DRAWING SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS BE FOLLOWED.
3. COARSE AGGREGATE FOR CONCRETE SHALL CONSIST OF HARD CALIBRED STONE OF MAXIMUM SIZE 20 MM AND SHALL BE PERFECTLY CLEANED AND WELL GRADED.
4. REINFORCEMENT BARS SHALL BE TOR STEEL, F-500 GRADE. CONCREND OR OF 2000 RIN-REINCEMENT SHALL BE CLEANED AND FREE FROM OIL, ALL SCALE ETC AND SHALL BE BENT COLD TO THE SHAPES AND DIMENSIONS INDICATED AND SHALL BE PLACED EXACTLY AS SHOWN.
5. ALL INTERSECTIONS OF BARS SHALL BE SECURELY BOUND WITH NO. 16 GAUGE PLIABLE WIRE.
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
7. REINFORCEMENT DETAILS OF PILE/STL. SHALL BE PROVIDED AFTER FINALIZATION OF BAILEY BRIDGEND/CLUT BRIDGE DRAWING.
8. LAPS IN REINFORCEMENT BARS SHALL BE AVOIDED AS FAR AS POSSIBLE. LAPS MAY BE PROVIDED, IF UNAVOIDABLE HOWEVER IN SUCH CASES, 16/24 MC/112-211, FOR F6 500 STEEL AND A00 GRADE OF CONCRETE (FOR LESS THAN 25% OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA).

BAR	DIA OF BAR	*LAP LENGTH FOR FAVORABLE BOND CONCRETION.
8MM	253 MM	
10MM	324 MM	
12MM	369 MM	
16MM	513 MM	
20MM	648 MM	
25MM	810 MM	

* FOR UNFAVORABLE BOND CONDITION THE ABOVE VALUES SHOULD BE MULTIPLIED BY COEFFICIENT 1.43.
 1) FOR INCREASE IN PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA OF THE ABOVE VALUES SHOULD BE FURTHER MULTIPLIED BY COEFFICIENT MENTIONED BELOW.

PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREAS	COEFFICIENT
<25%	1.00
25% - 33%	1.15
33% - 50%	1.40

1) NOT MORE THAN 50% OF REINFORCING BARS SHALL BE LAPPED AT ANY LOCATION.

- LEGEND:
- TOP BAR (TOP)
 - BOTTOM BAR (BOT)
 - GRADE OF CONCRETE
 - SUB STRUCTURE
 - NOMINAL COVER TABLE
 - EXPOSURE CONDITION - SE/E/E
 - EARTH FACE - 75 MM
 - NON EARTH FACE - 45 MM

ISSUED FOR CONSTRUCTION

CHIEF ENGINEER
 PROJECT DWTM
 BORDER ROAD ORGANISATION

TITLE : REINFORCEMENT DETAILS FOR
 5.8 BATH HEIGHT TYPICAL ABUTMENT OF SPAN
 50 - 120 BAILEY BRIDGE WITH SAFE BEARING
 CAPACITY OF 300 AS 30 T / 50M

This drawing is approved by
 Chief Engineer, Project Dantak
 wide No. 197
 22/11/2023 and issued for
 construction. *Neelganga*

E.E.(C/W)
 SO-2(M/S)
 For Chief Engineer

DWG NO	DATE	SHEET NO	SCALE
		22	AS SHOWN