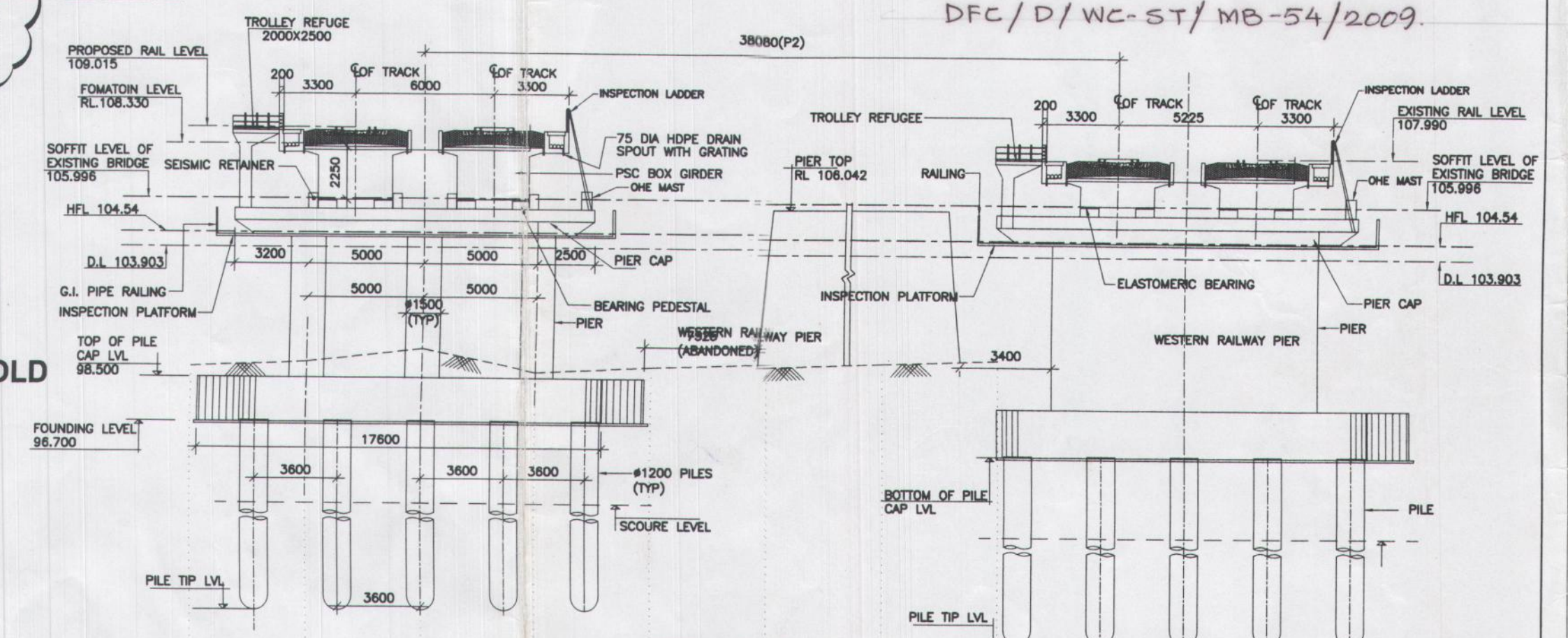
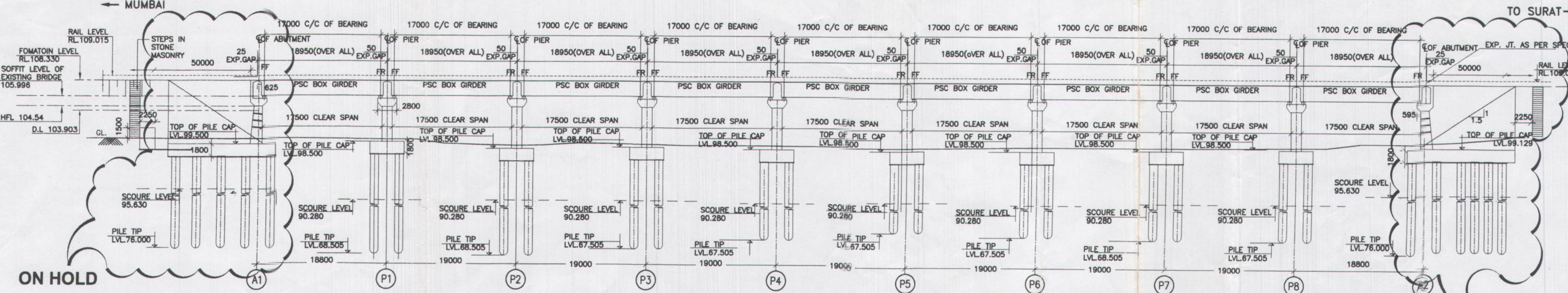


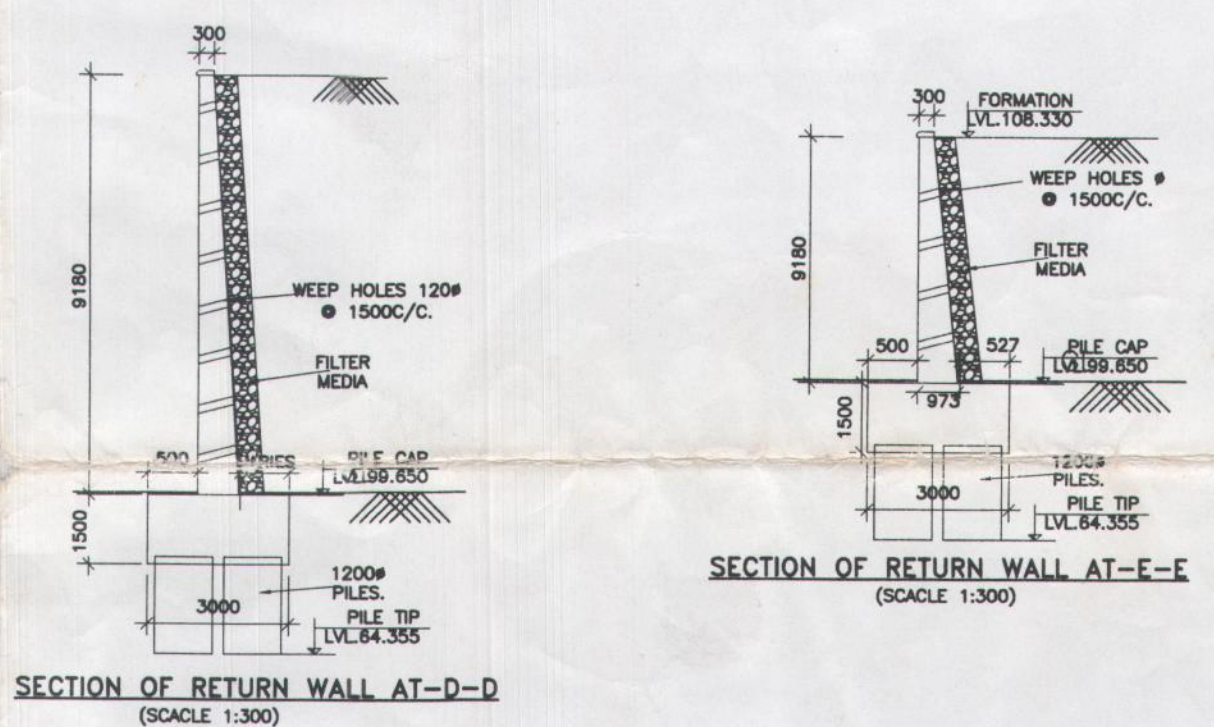
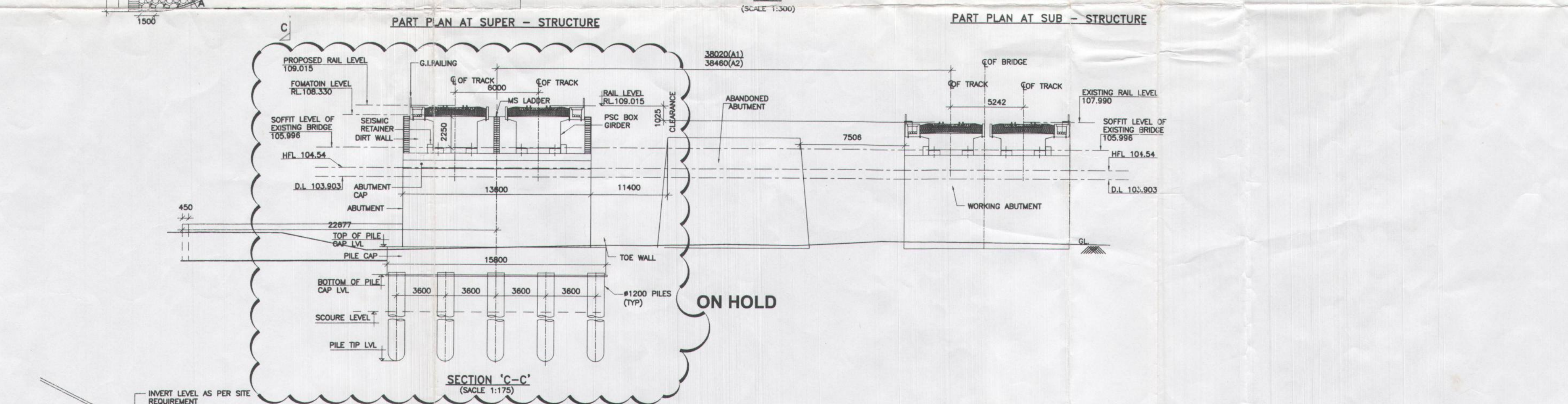
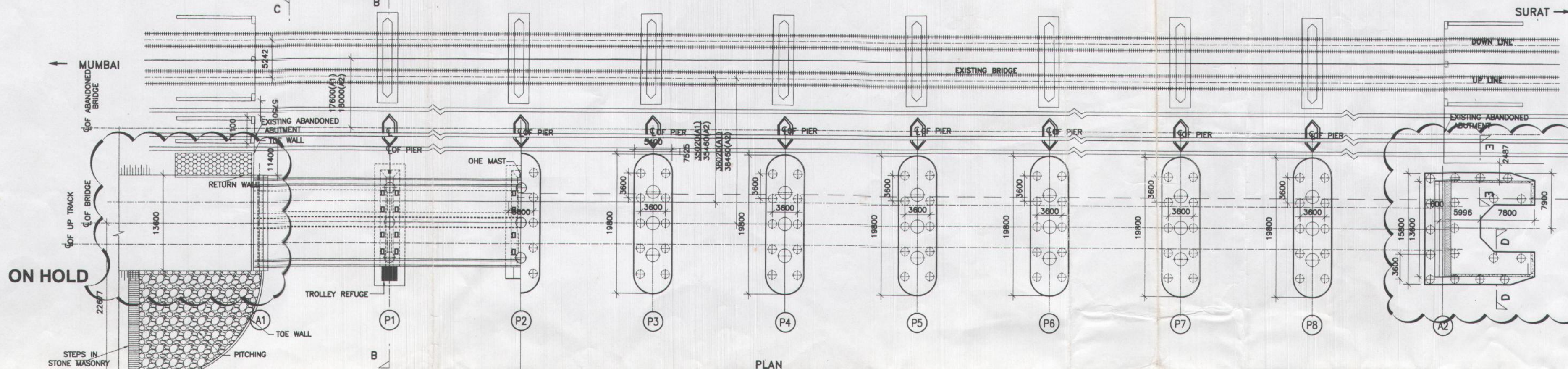
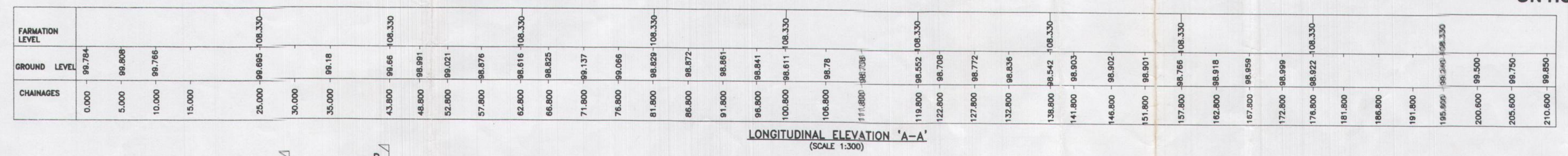
DFCC DRG. NO.: DFC/D/WC-ST/MB- 94 /2009

THIS DRG. SUPERCEDES THE DRG. NO
DFC/D/WC-ST/MB-54/2009.



DISTANCE	10.00	5.00	0.00	5.00	10.00	15.00	20.00	25.00
GROUND LEVEL	98.910	99.114	99.660	98.702	98.947	99.110	99.270	99.443

(NOTE— GROUND LEVEL APPLICABLE ON PIER 'P1' ONLY)



CONTROLLED COPY

Signature _____

Date Aug 1

CRE _____ CPM _____

THE LEVEL ARE CORRECTED AS PER SURVEY PLAN RECEIVED FROM SITE.
DRG: DRG:SOMA-DFCC-400-2001

- BASE RAIL LEVEL ON EXISTING BRIDGE -UP TRACK - BEHIND A2-107.990m
- EXITING RAIL LEVEL TO HFL - 3.45m
- PROPOSED RAIL LEVEL - 109.015m
- CLEARANCE ABOVE HFL - 1.5m
- DISCHARGE- 2583CUM ECS
- SOFFIT LVL OF EXISTING BRIDGE- 105.996 M
- DANGER LVL OF EXISTING BRIDGE- 103.903 M

DESIGN CRITERIA :
I.R.S. BRIDGE RULES
I.R.S. CONCRETE BRIDGE CODE.
I.R.S. BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
I.R.S. SCHEDULE OF DIMENSIONS FOR DEDICATED FREIGHT CORRIDOR.
MANUAL ON THE DESIGN AND CONSTRUCTION OF WELL AND PILE FOUNDATIONS.
LOADING STANDARD : DFCC LOADING 2007
I.R.S BRIDGE MANUAL

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
2. SHOWN DIMENSIONS ARE TENTATIVE AND MAY CHANGE AFTER FINAL STRUCTURAL DESIGN.
3. THE DRAWING IS BASED ON TOPOGRAPHIC INFORMATION RECEIVED BY SURVEY (AS APPROVED BY CPW/SURAT) AND GEO-TECHNICAL INVESTIGATION CARRIED OUT AT SITE BY M/A. SONA ENTERPRISE.
4. THIS DRAWING IS PREPARED BY M/A. SONA ENTERPRISES.
5. THE DRAWING IS MADE IN ACCORDANCE WITH ALL EMPLOYER'S REQUIREMENTS & SPECIFICATIONS AS CONTAINED IN THE CONTRACT AGREEMENT NO. H02/NR/CPW/SONA/DMB/17/MAY/2018 AND THERE IS NO CHANGE.
6. SAFETY AND PROTECTION OF THE PROPOSED WORK AND SAFETY AND PROTECTION FOR THE RUNNING TRAFFIC ON THE EXISTING ROADWAY SHALL BE SECURED BY CONTRACTOR.
7. EXCAVATION/DISMANTLING OF ANY PORTION OF THE EXISTING BRIDGE OR IN ITS VICINITY OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING SAFETY OF THE EXISTING BRIDGE /PERMANENT WAY OR SAFETY OF THE ROADWAY SHALL BE STOPPED IMMEDIATELY UPON RECEIVING ORDER TO DO SO FROM TOLL AUTHORITY AND COMPLIANCE OF THE SAFETY REQUIREMENT AS DIRECTED BY THE CONCERNED ZONAL MANAGER.

ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE DRAWING APPROVING AUTHORITY BEFORE EXECUTION OF WORK AT SITE.

FOUNDATION DESIGN AS SHOWN IN THE GAD IS TENTATIVE & MAY BE ALTERED AS PER REQUIRED DURING CONSTRUCTION; FINAL DEPTH SHALL BE INDICATED IN THE STRUCTURAL DRAWING. ANY ALTERATION/ADDITION REQUIRED DURING REPAIRMENT, WILL REQUIRE PRIOR APPROVAL OF DESIGNING AUTHORITY.

WEEP HOLE TO BE PROVIDED IN MAIN WALL/RETURNS AS PER SUB-STRUCTURE CODE AND IRS CONCRETE BRIDGE CODE.

REINFORCEMENT SHALL BE PROVIDED AS PER SUB-STRUCTURE CODE AND IRS CONCRETE BRIDGE CODE.

EARTH FILLING BETWEEN THE EXISTING RAILWAY FORMATION AND PROPOSED GCD FORMATION AS MARKED "X" IN THE DRAWING TO BE PRESENTLY KEPT ABOVE RAIL.

13. THE PERCENTAGE OF EARTHWORKS ON THE BRICKS SHALL BE AS PER DRAFTER'S SPECIFICATION REF. CL. NO. 2.1 TO 2.20-VOL-1.

14. THE PERCENTAGE OF EARTHWORKS ON THE BRICKS IS TO BE CHECKED BY AN INDEPENDENT SLOPE SURVEY ANALYSIS AND PROVIDE SUITABLE STRENGTHENING OR OTHER ARRANGEMENT TO MAKE BASE STRUCTURALLY SAFE.

15. PROPER BENCHING ON EXISTING FORMATION TO BE DONE BEFORE EXECUTION OF EARTHWORK FOR BRICKS' FORMATION.

18. SPECIAL ABUTMENTS, WALLS AND RETURN WALLS BACK FILL SPECIFICATIONS SHALL BE PROVIDED AS PER IRC'S
19. SPECIFICATION REFER CL NO 3.5.7 AND 3.5.8 OF SPECIFICATIONS VOL. II - WITH MINIMUM 8 WALLS OF 10
20. STONE PILING ON SLOPES OF BANK ON APPROACHES OF BRIDGE SHALL BE PROVIDED UP TO 300 MM ABOVE LEVEL
21. FOR TRANSITION STRENGTHENING OF BRIDGE APPROACHES, REFER TO SPECIFICATION OF THE DCR.
22. FOR BORE HOLE DETAILS REFER DOCUMENT NO. : SCMA/FPS/545
23. GEOTECH INVESTIGATION DONE FOR THE BRIDGE IS INSUFFICIENT/SUFFICIENT
24. PILE CAPACITY
25. APPROVED AND REPORTS SUBMITTED BY CONDUCTING INITIAL TEST AND ROUTINE LOAD TEST AS PER EMPLOYER'S
26. FORMATION LEVEL/GROUND LEVEL/HYDRO DISCHARGE / VERTICAL CLEARANCE/FREE BOARD/CL DISTANCE OF BRIDGES/SOFT
27. CONSTRUCTION METHODOLOGY STATEMENT IN TERMS OF CLAUSE 4.2 (d) (iv) OF EMPLOYERS REQUIREMENT SHOULD
28. BE PREPARED AND SUBMITTED FOR APPROVAL BEFORE EXECUTION OF WORKS
29. WORK WILL BE EXECUTED AS PER EMPLOYERS REQUIREMENT AND SPECIFICATION CONTAINED IN THE CONTRACT AGREEMENT.

25. MINIMUM GRADE OF CONCRETE :
 a. SUBSTRUCTURE - M40
 b. FOUNDATION - M40
 c. SUPER STRUCTURE - M20
 d. WEARING COURSE - M25

26. THE OUTER SURFACE OF LINES FOR TOP PORTION OF 10 M SHALL BE PAINTED WITH COAT TAR EPOXY PAINT WITH TOTAL THICKNESS OF 1.5 MM AS PER S.M. 12 OF CLAUSE 6.3.1 OF EMPLOYER'S REQUIREMENTS HANDBOOK AND OUTLINE DESIGN SPECIFICATION FOR THE PROJECT. THE PAINTING SHALL BE DONE BY ROTARY METHOD BY THE CONTRACTOR. THE HYDRAULIC FEED DRILLING RIGS, AND WHEREVER CONSIDERED NECESSARY REVERSE MUD CIRCULATION TECHNIQUE SHALL BE ADOPTED AS PER CLAUSE 7.4.1 OF VOL. III SECTION IX OF CONTRACT AGREEMENT.

DRAWN BY SUPRIYA P.		CLINT: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
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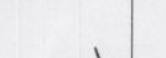
CHECKED BY KMRP	PROJECT WESTERN FREIGHT CORRIDOR : MAJOR BRIDGES BETWEEN VAITARNA AND UTRAN ON VASAI - BHARUCH SECTION	STRUCTURAL
VERIFIED BY S.F.B	BRIDGE NO. : BRIDGE NO. 163 OF SURAT UNIT (EXT BRIDGE NO-400)	
DATE OF ISSUE 07-07-2009	DRAWING TITLE : GENERAL ARRANGEMENT DRAWING OF 9x19.0m PSC BOX GIRDER BRIDGE AT km 238/5-11 ON SOUTH POORNA RIVER	
DWG. NO. SOMA-DFCC-400-C-1001	REV. : 1 AS SHOWN	

THIS DRAWING IS THE PROPERTY OF WESTERN RAILWAY CORPORATION	CONTRACTOR REVISION NO.						
R1	MODIFIED AS PER WESTERN RAILWAY REQUIREMENT			Y.S.B	M.R.K	A.K.P	11/12/09
REV.	PARTICULARS			DRN.	CHD.	VER.	DATE

CONTRACTOR :  **SOMA ENTERPRISE LTD.**
SOMA MERIT, 9 VENKATESWARAY NAJDU STREET, TASKER TOWN,
SHIVAJI NAGAR, BANGALORE - 560 051, KARNATAKA, INDIA
TEL. NO. : +91-80-4025 4545, FAX NO. : +91-80-2286 4545
E-MAIL : smnabi@somaenterprise.com

CONSULTANTS :  **TANCON CONSULTANT PVT. LTD.**
7, LINK ROAD, JANGPURA EXTN NEW DELHI - 110041.
Tel : 24171768, 24010520, 24010521 Fax : 26319557
E-mail : tancon@tclp.com & tclp_123@yahoo.com

PROOF CONSULTANTS	OFFICE OF ORIGIN
 Proof Consultants Pvt. Ltd.	
CONSULTANTS :	
 S.N.BHOEE & ASSOCIATES PVT. LTD. UNIT NO 10, BANKING COMPLEX NO 8, PLOT NO 5 & 10, Sector-18A, VASBI, WAT-14/MAHAB-407755, NOIDA Tel : +91-22-2783 1007/281 Fax : +91-22-2783 1173 E-mail : enricomail@enl.com & enbapil@yahoo.com	

									
PM/Dy CPM	CPM	GGM (Engg-1)	JGM (Design)	GGM (Design)	TCPL REVIEW	PMC	SEL		

VERIFIED BY S.F-B		BRIDGE NO. 163 OF SURAT UNIT (EXT BRIDGE NO-400)			STRUCTURAL
DATE OF ISSUE 07-07-2009		DRAWING TITLE : GENERAL ARRANGEMENT DRAWING OF 9x19.0m PSC BOX GIRDER BRIDGE AT km 238/5-11 ON SOUTH POORNA RIVER			
DESIGN NO. SOMA-DFCC-400-C-1001		REV. 1	SCALE : AS SHOWN	STATUS : APPROVAL	

USER: KAMAL P/SCALE: 1:1 (A1) UPDATE: 16/12/2009