

## Complete Status Report for Proposal No.: NRFZR0055

**Proposal Details**

Proposal ID	NRFZR0055	Proposal Date	12/07/2019
<b>Name of Work</b> : WIDENING AND STRENGTHENING OF MOGA -BAJAKHANA (LAMBWALI) SECTION OF NH-105B TO FOUR LANE UNDER BHARATMALA PARIYOJNA N THE STATE OF PUNJAB			
<b>Sponsoring Organization Details</b>			
Organisation/Department	NHAI	PIU/Unit	
Contact Person Name	Vipin Mangla	Designation	Project Director
Fax No.		Phone No.	01642270030
Mobile No	8447360640	e-mail	piubathinda@nhai.org
Postal Address	H.NO. 16308 street 13/9, PIU Batinda, Dhillon Colony, , Pin Code: 151001		
State	Punjab	District	Moga

**Proposed Road Over Bridge/Road Under Bridge/Limited Height Subway Location Details**

Proposal for	ROB		
Road	New	Category of Road	Class I- National Highways
Name of Road	Moga to Bajakhana	Location/Chainage on the Road	1 km 0 m
Villages/Towns on Either Side	Moga	Nearest City/Town	Moga
Zonal Railway	Northern Railway	Railway Division	Firozpur
Between Railway Stations	MOGA & GHALKALAN	Major Railway Section	Ludhiana-Ferozpur Cantt
Location (on Railway Line)	71 km 6 m TP	No. of Lane(s)	4
Width of Road	28 m	Skew Angle (wrt. normal to track)	5
Proposed Road Over Bridge/Road Under Bridge/Limited Height Subway in lieu of any existing LC			Yes

**Existing LC Details**

LC No.	C/56A/E2	Class of LC	A
Location of LC	71 km 400 m	Average no. of trains per day	18
TVU	31664.28	TVU year	2018

**Conceptual Plan/Sketch** [ROB Ch 71-6.pdf](#)

**Joint Site Inspection**

Joint Site Inspection Date Proposed as 29/07/2019 Joint Site Inspection Date Confirm/Revised as 26/07/2019  
Actual Date of Joint Site Inspection Done 26/07/2019

**Name (Designation)**

Sponsoring Organization: NHAI Vipin Mangla (Project Director)

**Railway Officials at Joint Site Inspection** ↓

Engineering Jasvir Singh (SSE/P.Way/Moga)

**Joint Feasibility Report****Track Details** ▶

Gauge	BG	Route	LDH-FZR
No. of Existing Tracks	1	No. of Proposed/Future Tracks	2

**Clearance Required With Respect to Rail Level** ▶

Height Above Rail Level	8200 mm		
Lateral Clearance (Left) From Centre of Nearest Track	mm	Lateral Clearance (Right) From Centre of Nearest Track	mm

**Feasibility of Construction** ▶

Road Over Bridge (ROB)	Feasible	Road Under Bridge (RUB)	Not Feasible
Limited Height Subway (LHS)	Not Feasible		

**Proposed Rail Over Bridge/Rail Under Bridge/Limited Height Subway Location Details** ▶

District/State	Moga / Punjab	Division/Railway	Firozpur / Northern Railway
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Between Railway Stations	MOGA & GHALKALAN	Major Railway Section	Ludhiana-Ferozpur Cantt
Location (on Railway Line) (km m /TP )	71 km 6 m /	No of lane(s)	4
Width of road	28	Skew angle (wrt. normal to track)	20
<b>Existing LC data (If applicable) ▶</b>			
LC No.	C/56A/E2	Class of LC	A
Location of LC	71 km 400 m	Average no. of Trains per day	18
TVU / Year of TVU	31664.28 / 2018	LC Will be closed or not	

**Any Level Crossing to be closed in lieu of Road Over Bridge/Road Under Bridge/Limited Height Subway** Yes**Level Crossings to be closed ▶**

LC No.	Class of LC	Location of LC		Average no. of Trains per day	TVU	Year of TVU
		km	m			
C/56A/E2	A	71	400	18	31664.28	2018

**Traffic Diversion ▶**

Whether required or not	No	
Through Temporary Diversion		Through Temporary LC
Whether FOB is required to close LC		Whether additional RUB is required to close LC

**Utility Shifting ▶**

OHE	No	Cables (S&T, DOT, OFC)	No
Cables (Electricals)	No	Pipe Lines (Water, Severe)	No
Structures/Equipment	No	Any Other	

Note:- Utility shifting charges to be included in detailed estimate after approval of GAD.

**Railway & Other Land Details ▶**

Width of Railway land on Left Hand Side from centre of nearest track	14.63 m	Width of Railway land on Right Hand Side from centre of nearest track	19.51 m
Centre to Centre distances among tracks	m		
Availability of land outside railway on Left Hand Side	min m max m	Availability of land outside railway on Right Hand Side	min m max m
Details of Encroachment if any			
Approach Gradient Left Hand Side (1 in_)	40	Approach Gradient Right Hand Side (1 in_)	40

**Span Arrangement for ROB in Railway Portion ▶**

No of Spans in Railway Portion	1		
Span arrangement in Railway Land	42m(0 deg; STEEL)	Note:- From left to right facing in the direction of increasing railway chainage.	
Length of viaduct/span on Left Hand side outside railway	15	Length of viaduct/span on Right Hand side outside railway	15
No. of GADs applicable for this proposal	1		
Issue if any to be resolved	No		

**Signing of Joint Feasibility Report ▶**

Is Joint Feasibility Report signed by Sr.DEN/DEN?	Yes
Is Joint Feasibility Report signed by Sponsoring Organisation?	Yes

Remark by Sr.DEN/DEN

Joint Feasibility report signed by SSE/P.Way/Moga and NHAI officials

**Conceptual Plan/Sketch ▶**Conceptual Plan/Sketch [Feasibility & Rough Sketch \(1\).pdf](#)**Span Arrangement for ROB in Railway Portion By CBE****Span Arrangement for ROB in Railway Portion By CBE ▶**

No of Spans in Railway Portion 1

Span arrangement in Railway Land 36m(0-20 deg; COMPOSITE)  
**Note:- From left to right facing in the direction of increasing railway chainage.**

Length of viaduct/span on Left Hand side outside railway 15 Length of viaduct/span on Right Hand side outside railway 15

No. of GADs applicable for this proposal 1

Sponsoring Organisation to deposit way-leave charges to Railways as Rs. 12,000/- per annum for 10 years in advance i.e. Rs. 1,20,000/-

**Conceptual Plan/Sketch ▶**Conceptual Plan/Sketch [Feasibility & Rough Sketch \(1\).pdf](#)**Submission of GAD, MoU, etc****View GAD, Mou, Compliance of Checklist etc ▶**

Date of depositing hard copy of GAD, MoU, Compliance of Checklist etc in CBE's office 19/02/2020

Upload Overall GAD for Approval [ROB 1+104-Model.pdf](#)**Document Verification By CBE**

Whether Satisfied with the submitted document Yes Remark Forwarded for signature of divisional officers.

**Signing of GAD, etc by Divisional Officers**

Date of Examination of GAD by Drawing Office of SR.DEN-HQ 26/10/2021

Date of Signing by Electrical/TRD 02/11/2021

Date of Signing by S&T 02/11/2021

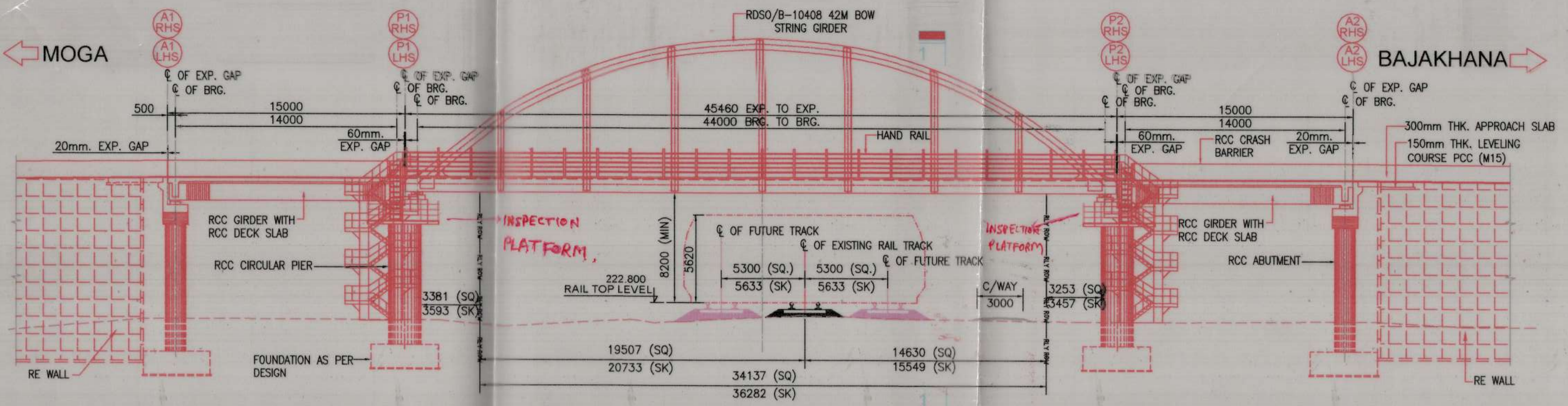
Signed & Forwarded to CBE vide letter no. & date 635-W71/FZR-1/22 08/11/2021 Remark GAD sent to HQ

**Approval of GAD By Chief Bridge Engineer/Northern Railway**

Date of Examination of GAD by Drawing Office of Chief Bridge Engineer/Northern Railway 16/11/2021

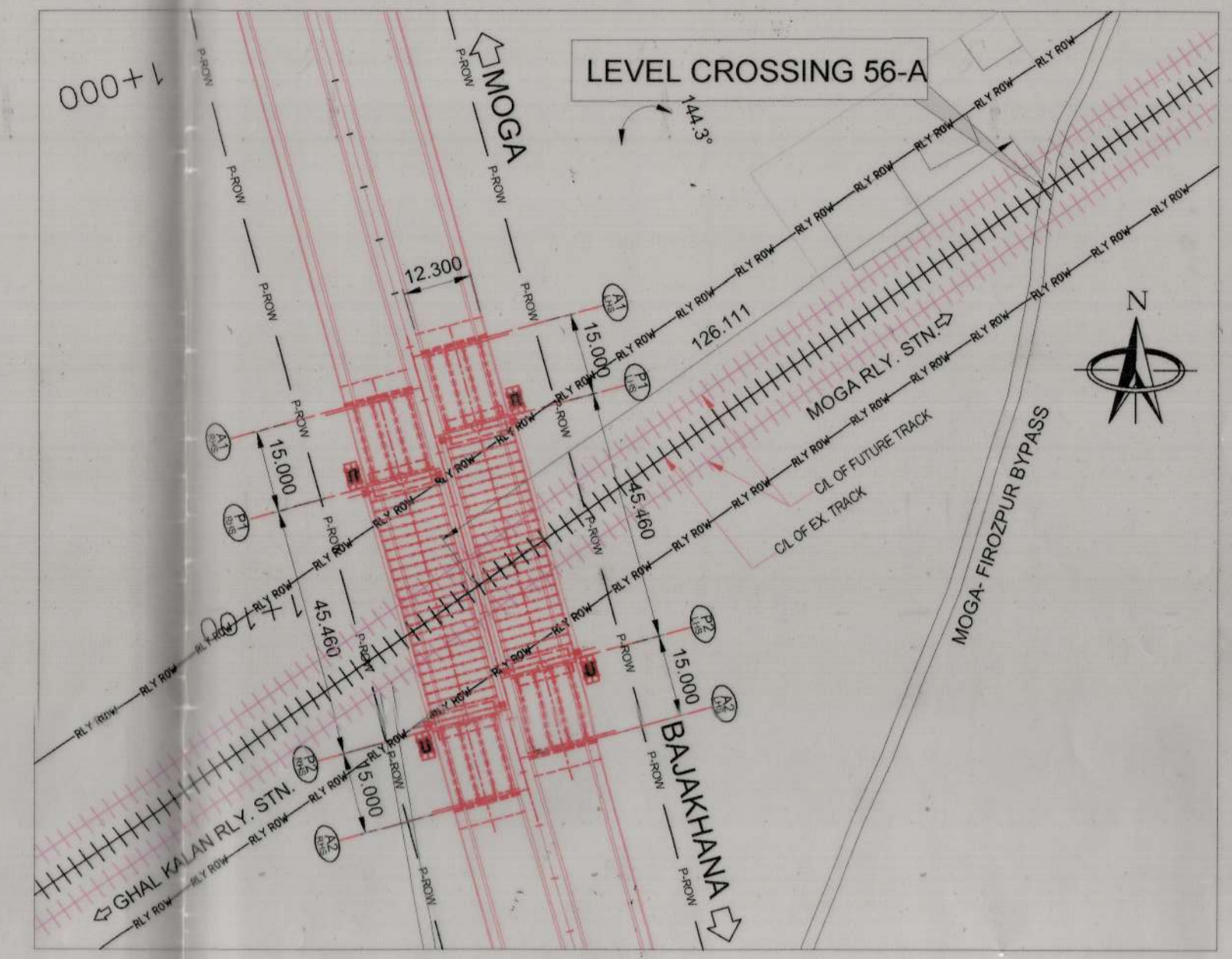
Date of Approval 17/11/2021

Remarks GAD APPROVED

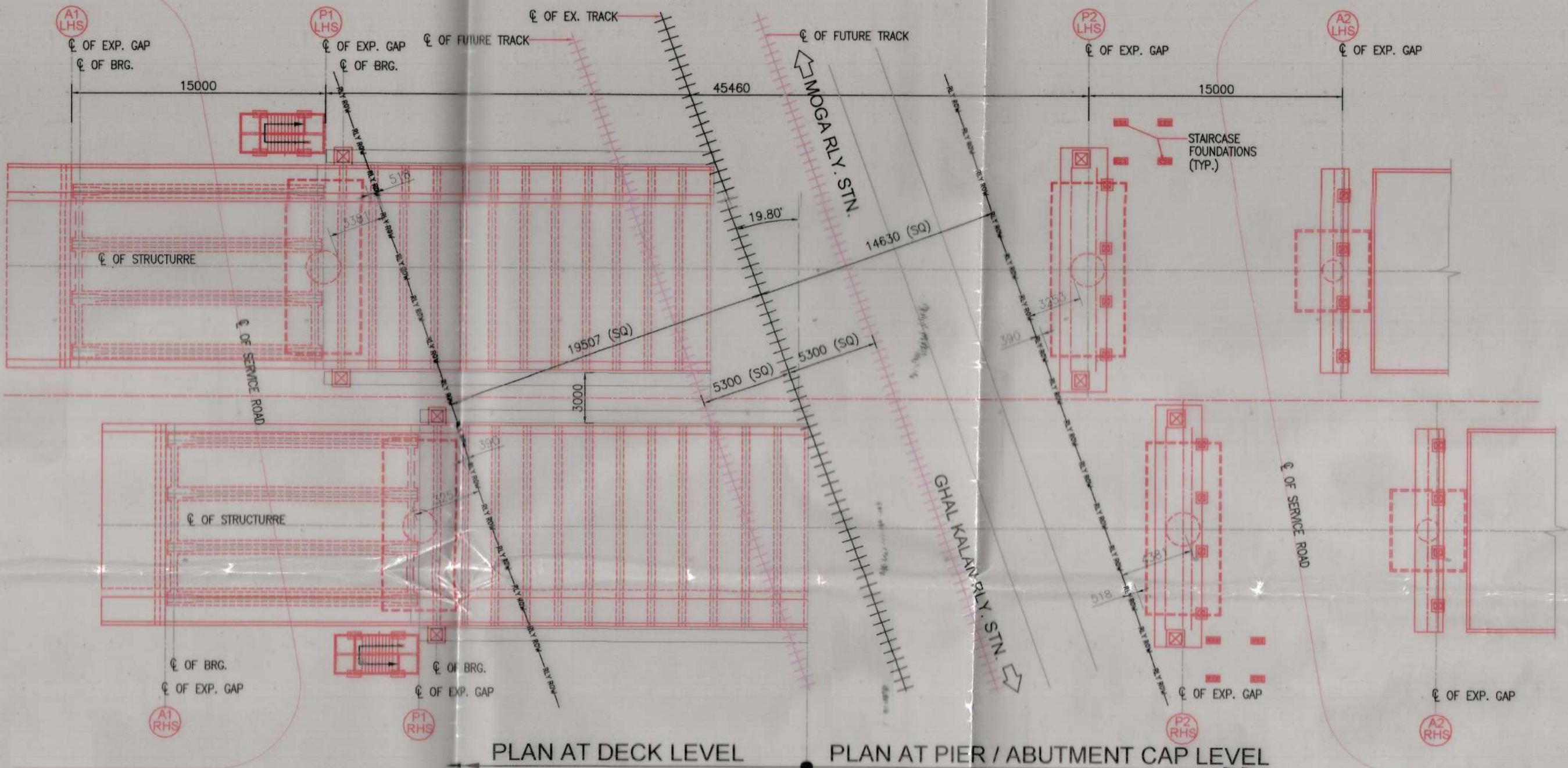


FINISHED ROAD LEVEL (LHS) (m)	233.380	233.380	233.380	233.380	233.380
FINISHED ROAD LEVEL (RHS) (m)	233.380	233.380	233.380	233.380	233.380
GROUND LEVEL (LHS) (m)	222.519	222.537	222.408	222.423	222.436
GROUND LEVEL (RHS) (m)	222.578	222.481	222.400	222.425	222.445
CHAINAGE (LHS) (KM)	1+063.687	1+078.687	1+101.417	1+124.147	1+139.147
CHAINAGE (RHS) (KM)	1+069.501	1+084.501	1+107.231	1+129.961	1+144.961

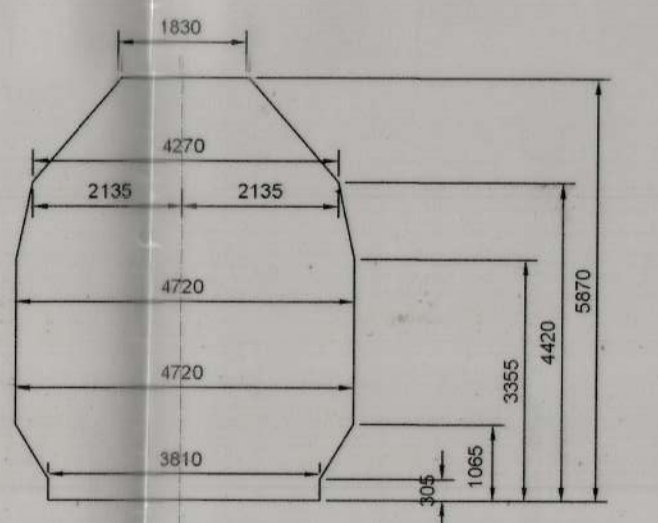
**ELEVATION**  
(SCALE 1:250)



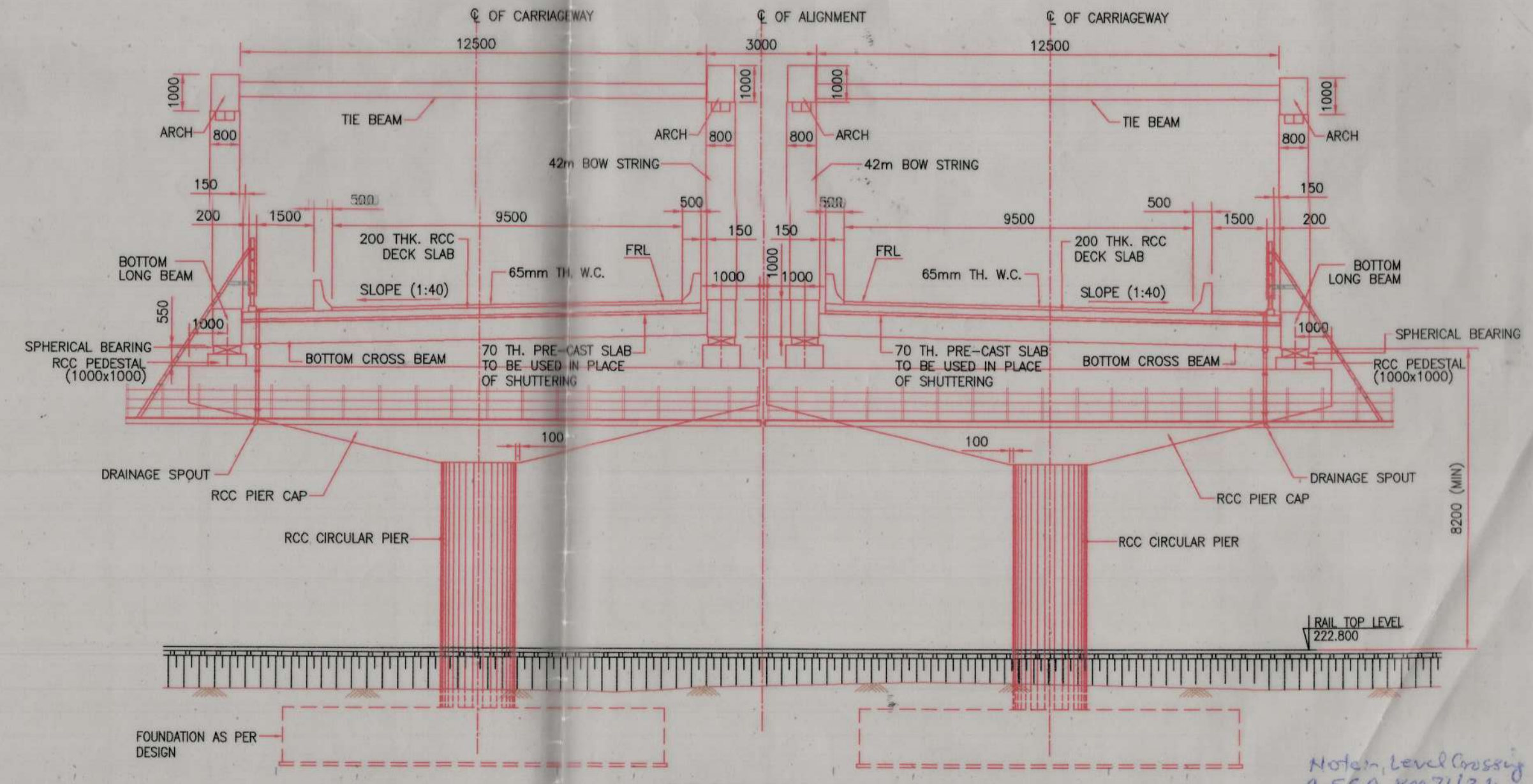
**KEY PLAN**  
(SCALE 1:1000)



**PLAN AT DECK LEVEL**    **PLAN AT PIER / ABUTMENT CAP LEVEL**  
(SCALE 1:250)



**MINIMUM FIX STRUCTURE DIAGRAM**  
SCALE 1:200



**SECTION 1-1**  
SCALE 1:125

**DEPOSIT WORK OF NHAI  
RORAC PROPOSAL ID NR FZR 0055**

N-R DVL PLAN NO. **ROB-107** FZR  
**LDH-FZR-21**  
**NRFZ0055**

- NOTES:-**
- (1) EXISTING WORK SHOWN IN BLACK
  - (2) PROPOSED WORK SHOWN IN RED
  - (3) DISMANTLED WORK SHOWN IN GREEN
  - (4) FUTURE WORK SHOWN IN MAGENTA
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS IN METER UNLESS WRITTEN OTHERWISE.
  - CONCRETE FOR DIFFERENT COMPONENTS OF STRUCTURE SHALL BE DESIGN MIX AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC CURS STRENGTH AS FOLLOWS:  
 > SOLID SLAB ..... M35  
 > RCC BEAM & SLAB ..... M35  
 > SUBSTRUCTURE ..... M35  
 > PILE & PILE CAP ..... M35  
 > APPROACH SLAB ..... M30  
 > LEVELING COURSE ..... M15  
 > CRASH BARRIER ..... M40  
 > PEDESTAL ..... M40  
 CONTROLLED CONCRETE WITH WEIGHT BATCHING IS TO BE USED.
  - VEHICLE LOADING ON THE CARRIAGEWAY IS THE ONE GIVING WORST EFFECT OF FOLLOWING 4.1 2-LANE 70R + 1-LANE CLASS-A OR 3 LANE CLASS-A OR SPECIAL VEHICLE LOADING (MULTI AXLE HYDRAULIC TRAILER).  
 5. DESIGN CRITERIA FOR THE STRUCTURE IS- a) IRC-5-1998, b) IRC-112-2019, c) IRC-6-2017, d) IRC-78-2014.
  - ALL DIMENSIONS AND LEVEL SHALL BE VERIFIED AND RECONCILED AT SITE BEFORE EXECUTION OF WORK.
  - REINFORCEMENT SHALL BE HYSD DEFORMED BARS GRADE DESIGNATION F450 CONFORMING TO IS 1786.  
 > CLEAR COVER TO OUTER MOST STEEL SHALL BE 50mm. FOR ALL COMPONENTS EXCEPT FOUNDATION.  
 > CLEAR COVER TO OUTER MOST STEEL SHALL BE 75mm. FOR FOUNDATIONS.
  - CONCRETE WORKS SHALL BE CURED FOR MINIMUM 14 DAYS.
  - SOIL INVESTIGATION SHALL BE CARRIED OUT BEFORE EXECUTION OF THE WORK.
  - THE FRAMEWORK FOR CASTING DECK SLAB CAN BE SUPPORTED ON STEEL GIRDER WITHOUT ANY PROPS ON GROUND.
  - IN CASE CRANES ARE USED FOR PLACEMENT OF STEEL SPAN AND APPROACH SLAB THE CAPACITY OF CRANE AT REQUIRED RADIUS SHALL BE VERIFIED AND RECONCILED BEFORE EXECUTION OF WORK.
  - CONCRETE SHALL BE MIXED BY AUTO BATCHES PLANT.
  - PROPOSED WORK SHALL BE EXECUTED UNDER 20 KM/H SPEED RESTRICTION.
  - PROTECTIVE SCREENS SHALL BE PROVIDED OVER ROB AS PER ROBO'S SPECIFICATIONS.
  - INTEGRITY AND DURABILITY TEST OF PILES SHALL BE CARRIED OUT AS PER RELEVANT IS CODES.
  - ALL STRUCTURE STEEL SHALL CONFORM TO IS 2082-2011 (GR-E-250-80)
  - ALL STRUCTURE STEEL SHALL BE ALUMINUM METALLIZED BEFORE LAUNCHING.
  - THE PROPOSED ROB SHALL BE CONSTRUCTED IN LIEU OF EXISTING LC.
  - EXISTING TRACK SHALL BE PROTECTED BY SHEET PILING BEFORE EXECUTION OF WORK IF REQUIRED.
  - SAFETY PRECAUTIONS & MEASURED ADVISED WIDE RLY BOARD'S LETTER NO. 97/CE-1/1/BRO/15B (POLICY) PT-II, DATED 16-07-2009 & 29-09-2009 SHALL BE ENSURED.
  - STRIP SEAL TYPE EXPANSION JOINTS OF APPROVED WORTH STANDARD SHALL BE PROVIDED IN DECK AT EXPANSION GAP.
  - WHILE CARRYING OUT THE WORK PRECAUTIONS SHOULD BE TAKEN FOR PROTECTION OF S&T CABLE.
  - THIS DRAWING HAS BEEN PREPARED BASED ON THE DATA AS PER SITE DETAIL.
  - FOR DETAIL OF WC, EXPANSION JOINTS & DRAINAGE SPOUTS WORTH DRAWING NO. 80/1-69A MAY BE REFERRED FOR BEYOND OF RAILWAY ROW.
  - TEMPORARY DIVERSION NOT REQUIRED.
  - EXISTING TELEGRAPH POST, ONE MAST, SINGLE CABLE & WATER MAINS SHALL BE SHIFTED IF REQUIRED.
  - ALL METALLIC STRUCTURE SHOULD BE EARTHED PROPERLY AS PER SITE REQUIREMENT.
  - C/S SANCTION MUST BE TAKEN BEFORE STARTING WORK AFFECTING SAFETY OF PASSENGER RUNNING LINES.
  - QUALITY CONTROL IN RESPECT OF EACH ITEM OF WORK AS RELEVANT I.R.C. WORTH GUIDELINES SHALL BE STRICTLY FOLLOWED.
  - THE ABUTMENT POSITION SHOWN IN THE PLAN MAY NOT MATCH WITH POSITIONS SHOWN IN ELEVATION DUE TO CURVES ALONG THE ALIGNMENT.
  - PILE CAP TOP SHALL BE FIXED AT MINIMUM 0.500m. BELOW THE EXISTING GROUND LEVEL AT THE PARTICULARLY LOCATION.
  - DETAILS OF DRAWING FOR EACH COMPONENTS SHALL BE SUPPLIED SEPARATELY AT THE TIME OF EXECUTION.
  - AMBIGUITY IN ANY TECHNICAL PARAMETERS SHALL BE SORTED OUT BY THE ENGINEER-IN-CHARGE WITH FULL RESPONSIBILITY.
  - NECESSARY TEMPORARY PROTECTION WORK FOR SAFETY OF RUNNING TRACK IN CONNECTION WITH EXECUTION OF FOUNDATION SHALL BE MADE BEFORE EXECUTION OF THE WORK.
  - TEMPORARY ENGINEERING INDICATION AND PROTECTION OF TRACK SHALL BE INSTALLED AS PER RAILWAY NORMS.
  - DIMENSIONS GIVEN IN THE DRAWINGS MUST BE CHECKED AT SITE BEFORE EXECUTION OF WORK FOR FEASIBILITY.
  - REPRESENTATIVE OF TELECOM AND SIGNALING DEPT. SHOULD BE MADE AVAILABLE BEFORE COMMENCEMENT OF PROPOSED WORK IN THE VICINITY OF SIGNAL & TELECOM CABLE.
  - ALIGNMENT OF PROPOSED ROB HAS BEEN FINALIZED DURING JOINT SITE INSPECTION OF RAILWAY BOARD AUTHORITY.
  - INSPECTION PLATFORM IS TO BE PROVIDED AT EACH PIERS FOR RAILWAY PORTION.
  - IT IS TO INTIMATE THAT WHATEVER BE UTILITY SHIFTING ESTIMATE BY RAILWAY FOR ROB THAT WILL BE PAID BY NHAI.
  - PROPOSED ROB SHALL BE 25M IN LG.
  - LC NO 56-A WILL BE CLOSED AFTER COMMISSIONING OF ROB.**

52. FZR DIVISION WILL OBTAIN CONSENT OF STATE GOVT FOR CLOSURE OF LC NO 56-A

PLAN NO. **XEN/RC/SAD/1502/GAD**

**FIROZPUR DIVISION**  
PLAN SHOWING PROPOSED OF ROB  
CONSTRUCTION OF ROB AT RAILWAY CHAINAGE 71 600 IN BETWEEN RAILWAY STATION MOGA TO GHAL KALAN ON LUDHIANA FIROZPUR SECTION (ROAD CH. 1+104) ON MOGA-BAJAKHANA (LAMBWALI) SECTION OF NH-105B WITH PAVED SHOULDER FROM KM. CH. 0+000 TO KM. CH. 42+733 UNDER BHARATMALA PARIYAJNA (PACKAGE-IV) IN THE STATE OF PUNJAB ON HYBRID ANTI MODE

EXISTING LAYOUT AND FEASIBILITY OF PROPOSED WORK CHECKED AT SITE AND FOUND CORRECT

DIVISIONAL OFFICERS APPROVAL		HEAD QUARTER OFFICERS APPROVAL	
DESIGNATION	SIGN	DESIGNATION	SIGN
DRM/FZR (SEEMA SHARMA)	<i>[Signature]</i>	CBE/NR	<i>[Signature]</i>
Sr. DEN/CFZR (HEMENDRA KUMAR)	<i>[Signature]</i>		
Sr. DSTE/COFZR (VARUN SHARMA)	<i>[Signature]</i>	DY. CE/ROB	<i>[Signature]</i>
Sr. DOMFZR (NAVEEN KUMAR)	<i>[Signature]</i>	XEN/NR-DESIGN	
Sr. DEE (TRD) (MAHESH NARWAL)	<i>[Signature]</i>		
Sr. DEN/HQ/FZR (PANKAJ KANH)	<i>[Signature]</i>		

DRG No. DRM..... HQ DRG No. GM(W)..... DRM

N-R DVL PLAN NO. ....

N-R HQ PLAN No. ....

DATE - MAY 2020

SCALE - AS SHOWN

SIZE - A0

SHEET - 01 OF 01

DRAWING No. 73583/LASA/DPR/ROB/GAD-01

DESIGN CONSULTANT:  
LEA ASSOCIATES SOUTH ASIA PVT. LTD.  
B-1E-27, Mohan Cooperative Industrial Estate,  
Mathura Road, New Delhi-110044  
*[Signature]*  
SUBIR KUMAR PODDER  
(TEAM LEADER)

NATIONAL HIGHWAYS AUTHORITY OF INDIA  
(Ministry of Shipping, Road Transport & Highway)

*[Signature]* ASHAN KHAN  
TECH. MANAG.  
*[Signature]* VIPUL GUPTA  
(PROJECT DIRECTOR)  
*[Signature]* (SSE/WORKS/IGN) (SSE/PWAY/MOGA) (ADEN-1/FZR)

*Note: Level Crossing A-56A, KM 71/3.4 (71-594) must be closed after commissioning of ROB.*