



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

परियोजना कार्यान्वयन इकाई (प० का० ई०)/PROJECT IMPLEMENTATION UNIT (PIU)

ई-09, ड्रीम सिटी/ E-09, DREAM CITY,

अमृतसर-143015 (पंजाब) / AMRITSAR-143015 (PUNJAB)

Phone : 0183-2911309

E-mail : piuamritsar@nhai.org/
nhaiapiuamritsar@gmail.com



भारतमाला
प्रगति के पथ पर अग्रसर

NHAI/PIU-ASR/Blackspots/2022 2816

Date: 14.12.2022

To,

Divisional Forest Officer,
Forest Division,
Amritsar

Divisional Forest Officer,
Forest Division,
Jalandhar

Sub: Diversion of 39.7656 ha. (30.51 ha in Amritsar Division & 9.2556 ha in Jalandhar Division)
Project is construction of 6 - lane structures on NH-1 Section (KM 407+000 to KM 444+794) under
Rectification of Blackspots on Brownfield Amritsar Spur of Delhi- Amritsar- Katra Expressway
under forest division Jalandhar and Amritsar, Punjab. (Online proposal No.
FP/PB/Road/143098/2021)-regarding.

Ref: File No. 9-PBC443/2022-CHA dated 06.12 .2021

Sir,

Please refer to Regional office, MOEFCC letter cited at reference above vide which certain observations on subject mention Forest diversion proposal has been raised.

2. The points – wise reply of the observations pertaining to this office are as under:-

S.No	Observations	Reply
1.	NOC from irrigation department.	The Irrigation department issues only provisional NOC and the same is uploaded already in the forest proposal. Final NOC is issued on the approval of detailed design submitted by the contractor after commencement of works.
2.	Area calculation with existing road width & proposed road width, which is not shown in layout plan and calculation sheet. Linear plan for the instant project clearly showing the component wise forest area requirement in distinct colour duly approved by the competent authority and countersigned by the DFO	All the forest land in the existing ROW is proposed for Diversion. The width of road may vary in subjected project. Area Calculation sheet is attached with Form-A, Part-I. Linear plan for the instant project clearly showing the component wise forest area requirement in distinct colour is attached for clarification.
3.	Cost-benefit analysis in part-I-G, based on calculation as per new NPV rates	Cost- benefit analysis is revised in part-I-G, based on calculation as per new NPV rate.


Head Office : G-5/6, SECTOR-10, DWARKA, NEW DELHI-110075

प्रधान कार्यालय : जी-5 एवं 6, सेक्टर- 10, द्वारका, नई दिल्ली-110075

4.	Project approval is provided for chainage 414.000, 425.800, 432.300 & 438.850, whereas as per justification proposed project starts from 407.00 to 444.794. This needs to be Clarified.	The rectification of blackspots is being undertaken in two stages. The approval of Authority on the following blackspot locations (414+000, 425+800, 432+300, 438.850) is already conveyed at a cost of Rs. 166.70 Cr. Further, the approval of the blackspots locations (408+400, 409+000, 411+900-412+500, 422.650, 440+800, 433+550) is in process with MoRTH and shall be received shortly. The in-principal approval of the same and the submission of the cost estimates are attached herewith.
5.	Cost of the project in online part-I A-1(viii) is uploaded as 334.34 crore, whereas in project approval it is given as 166.70 crore. This needs to be clarified.	The cost of Rs. 334.34 Cr. is for all the blackspot locations. Whereas the cost of Rs. 166.70 Cr. is only for the following blackspot locations (414+000, 425+800, 432+300, 438.850). The rectification of blackspots is being undertaken in two stages. The approval of Authority on the following blackspot locations (414+000, 425+800, 432+300, 438.850) is already conveyed at a cost of Rs. 166.70 Cr. Further, the approval of the blackspots locations (408+400, 409+000, 411+900-412+500, 422.650, 440+800, 433+550) is in process with MoRTH and shall be received shortly. The in-principal approval of the same and the submission of the cost estimates are attached herewith.
6.	In online part-II 4(ii) at Sr. no. 08, total 498 trees uploaded as misc. species, and needs to be uploaded with their scientific name & local name.	Pertains to DFO.
7.	Vegetation Density of the project is uploaded as 0.3 in part-II, whereas the NPV calculation is done based on very dense class instead of open forest. The NPV calculation sheet needs to be revised using rate for Open forest.	Pertains to DFO.
8.	KML file of CA/ACA site in Amritsar division was analysed on DSS and found that total area of CA site is approx. 73.14 ha, out of which approx. 71.2 area is available for plantation. Additional area of 1.94 ha for ACA is required for target plantation.	Pertains to DFO
9.	Under column B-1 of online part-I one proposal has been uploaded.	The subjected works are being undertaken under the Umbrella scheme of "Delhi-Katra

	<p>However, as per record five project proposals for this road have already been approved by the competent authority under FCA 1980, vide OnlineProposalNo. FP/HR/ROAD/51984/2020,FP/PB/ROAD/154267/2022, FP/PB/ROAD/130183/2021,FP/PB/ROAD/141585/2021, and FP/PB/ROAD/124978/2021. All previous proposal details need to be uploaded correctly.</p>	<p>Expressway” of Bharatmala Pariyojna which is being dealt through various offices of NHAI. The detail of the previous proposal of Delhi-Katra-Expressway is as under:</p> <table><tr><th>Online Proposal NO.</th><th>Proposal Under PIU offices</th></tr><tr><td>FP/HR/ROAD/51984/2020</td><td>PIU, Bhiwani</td></tr><tr><td>FP/PB/ROAD/154267/2022</td><td>PIU, Ludhiana Expressway</td></tr><tr><td>FP/PB/ROAD/124978/2021</td><td>PIU, Ludhiana Expressway</td></tr><tr><td>FP/PB/ROAD/141585/2021</td><td>PIU, Amritsar</td></tr><tr><td>FP/PB/ROAD/130183/2021</td><td>PIU, Amritsar</td></tr></table>	Online Proposal NO.	Proposal Under PIU offices	FP/HR/ROAD/51984/2020	PIU, Bhiwani	FP/PB/ROAD/154267/2022	PIU, Ludhiana Expressway	FP/PB/ROAD/124978/2021	PIU, Ludhiana Expressway	FP/PB/ROAD/141585/2021	PIU, Amritsar	FP/PB/ROAD/130183/2021	PIU, Amritsar
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FP/PB/ROAD/130183/2021	PIU, Amritsar													
10.	<p>In the approval of the project and MoM of appraisal of the project by IAC, the chainage have been mentioned Kms 414/000 to 438/850 of NH-3. Approval from the competent authority for the instant project from KM 407+000 to KM 444+794 is required.</p>	<p>The rectification of blackspots is being undertaken in two stages. The approval of Authority on the following blackspot locations (414+000, 425+800, 432+300, 438.850) is already conveyed at a cost of Rs. 166.70 Cr. Further, the approval of the blackspots locations (408+400, 409+000, 411+900-412+500, 422.650, 440+800, 433+550) is in process with MoRTH and shall be received shortly. The in-principal approval of the same and the submission of the cost estimates are attached herewith..</p>												

3. In view of above, it is kindly requested to process the subject mentioned Forest diversion proposal so that the same may be approved in next REC meeting.


 (Sunil Yadav)
 Project Director
 PIU – Amritsar

Encl: -As Above



भारत सरकार
GOVERNMENT OF INDIA
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE
CHANGE



एकीकृत क्षेत्रीय कार्यालय, चंडीगढ़ / Integrated Regional
Office, Chandigarh

फाइल नम्बर: 9-PBC443/2022-CHA

दिनांक: -12-2022

सेवा में,

अ० प्रधान मुख्य वन संरक्षक &
 नोडल ऑफिसर (एफ० सी० ए०),
 पंजाब सरकार, फॉरेस्ट कॉम्प्लेक्स, सै०-68,
 (एस० ए० एस० नगर (मोहाली, पंजाब।
fcaforest@gmail.com)

Sub: Diversion of 39.7656 ha. (30.51 ha in Amritsar Division & 9.2556 ha in Jalandhar Division) Project is construction of 6-lane structures on NH-1 Section (KM 407+000 to KM 444+794) under Rectification of Blackspots on Brownfield Amritsar Spur of Delhi-Amritsar-Katra Expressway under forest division Jalandhar and Amritsar, Punjab. (Online proposal No. FP/PB/Road/143098/2021)-regarding.

Ref: State Government online proposal received on dated 24.11.2022

महोदय,

मुझे आपका ध्यान उपर्युक्त प्रस्ताव की ओर दिलाने का निर्देश हुआ है, जिसमें वन (संरक्षण) अधिनियम, 1980 की धारा-2 के अनुसार गैर वानिकी उद्देश्य के लिए **39.7656** हेक्टेयर वन भूमि की मांग की गई है।

2. प्रस्ताव से सम्बंधित निम्नलिखित जानकारी भेजने का कष्ट करे:-

- i) NOC from irrigation department.
- ii) Area calculation with existing road width & proposed road width, which is not shown in layout plan and calculation sheet. Linear plan for the instant project clearly showing the component wise forest area requirement in distinct colour duly approved by the competent authority and countersigned by the DFO
- iii) Cost-benefit analysis in part-I-G, based on calculation as per new NPV rates.
- iv) Project approval is provided for chainage 414.000, 425.800, 432.300 & 438.850, whereas as per justification proposed project starts from 407.00 to 444.794. This needs to be clarified.
- v) Cost of the project in online part-I A-1(viii) is uploaded as 334.34 crore, whereas in project approval it is given as 166.70 crore. This needs to be clarified.
- vi) In online part-II 4(ii) at Sr. no. 08, total 498 trees uploaded as misc. species, and needs to be uploaded with their scientific name & local name.
- vii) Vegetation Density of the project is uploaded as 0.3 in part-II, whereas the NPV calculation is done based on very dense class instead of open forest. The NPV calculation sheet needs to be revised using rate for Open forest.
- viii) KML file of CA/ACA site in Amritsar division was analysed on DSS and found that total area of CA site is approx. 73.14 ha, out of which approx. 71.2 area is available for plantation. Additional area of 1.94 ha for ACA is required for target plantation.

- ix) Under column B-1 of online part-I one proposal has been uploaded. However, as per record five project proposals for this road have already been approved by the competent authority under FCA 1980, vide Online Proposal No. FP/HR/ROAD/51984/2020, FP/PB/ROAD/154267/2022, FP/PB/ROAD/141585/2021, FP/PB/ROAD/130183/2021, and FP/PB/ROAD/124978/2021. All previous proposal details needs to be uploaded correctly.
- x) In the approval of the project and MoM of appraisal of the project by IAC, the chainage have been mentioned Kms 414/000 to 438/850 of NH-3. Approval from the competent authority for the instant project from **KM 407+000 to KM 444+794** is required.

3. उपरोक्त जानकारी इस पत्र के जारी होने के पश्चात 30 दिनों के भीतर प्रस्तुत करे, जिसके प्रस्तुत न करने की स्थिति में इस प्रस्ताव को रद्द किया जा सकता है।

Digitally Signed by Raja
Ram Singh
Date: 06-12-2022 16:12:57
Reason: Approved

हस्ता/-
(राजा राम सिंह)
उप-वन महानिरीक्षक (केन्द्रीय)
(IRO-CHD, MOEF&CC)

प्रतिलिपि:

- वन मण्डल अधिकारी, वन मण्डल और जिला Jalandhar and Amritsar पंजाब | (dfojalandhar@gmail.com) (dfoamritsar@rediffmail.com)
- NATIONAL HIGHWAY AUTHORITY OF INDIA, PIU- Amritsar, E9 Dream City, Amritsar. (nhaipiuamritsar@gmail.com)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Govt. of India)
परियोजना कार्यान्वयन इकाई (प-का-ई-1) (PROJECT IMPLEMENTATION UNIT (PIU))
ई-09, डीएम सिटी, ई-09, DREAM CITY,
अमृतसर-143015 (पंजाब) : AMRITSAR-143015 (PUNJAB)

Phone : 011-26111505
E-mail : piuanmritsar@nhai.org
nhapiuanmritsar@gmail.com



NHAI/PIU-ASR/Blackspot/Priority-III/2021/ 1346

Date: 15.06.2021

To,
Regional Officer
National Highways Authority of India,
Chandigarh Bays No. 35-38,
1st Floor, Sector-4, Panchkula-134112

Sub: Rectification of Blackspots on NH-3 section from Amritsar to Jalandhar under Development of Brownfield spur of Delhi-Amritsar-Katra Expressway - Rectification of Blackspots under Priority III - reg.

Ref: This office letter no. NHAI/PIU-ASR/Blackspot/Priority-III/2021/834 dated 3.04.2021

Sir,

In reference to this office letter dated 03.04.2021 cited in reference above vide which the Cost estimate and bid documents of 04 nos. of structures under Blackspot Priority-III was submitted to your good office, it was directed that the section from Jalandhar to Amritsar of NH-03 has to be taken up for six-laning and this office was asked to review the proposal on the same lines.

2. In this regard, it is humbly apprised that as per the directions of the Competent Authority, this office had directed the Feasibility Consultant to work on the six-lane proposal however as per further directions of the Competent Authority, it was informed that the Internal Appraisal Committee had while approving the Blackspot Priority-II Proposal conveyed vide NHAI HQ letter dated 04/06/2021 recommended to include the same under residual NHDP. It was also informed that the Priority-III Blackspot proposals shall also be taken up similarly in residual NHDP.


3. The Consultant was accordingly asked to resubmit the Priority-III Blackspot estimates. M/s Feedback infra. has now vide their e-mail dated 15.06.2021 submitted the revised cost estimate and bidding documents for the following blackspots location falling under Priority III:

S. No.	Chainage	Proposed structure	Total Civil Cost (in Cr)
Priority-III Blackspots			
1	408.400	ROB widening (43+50) on RHS	70.83
	409.000	VUP 1x15 Dhillwan	
2	411.900-412.500	Major Bridge, Beas River	-
3	422.650	VUP 20+30+20 Naranjanpur fattubal	41.67
4	440.800	VUP 1x30 Tarantaran Road	36.95
5	443.550	VUP 1x30 IIM Amritsar	34.25

Head Office : G-5/6, SECTOR-10, DWARKA, NEW DELHI-110075
प्रधान कार्यालय : जी-5 एवं 6, सेक्टर- 10, द्वारका, नई दिल्ली-110075

[Handwritten signature]

4. In this regard, it is submitted that the bid documents submitted by the Consultant have been examined in this office and are majorly found in order. The Bid Documents comprising of GADs, Plan & Profile, technical Schedules and Cost Estimate are enclosed with a recommendation for the approval of Competent Authority and invitation of bids at the earliest.


(Sunil Yadav)
Project Director
PIU-Amritsar

Encl: As above

Copy to: CGM (Punjab), NHAI HQ

No. 5571-81 /1-W

date 20/12/2021

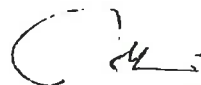
To

The Project Director,
NHAI, PIU,
Amritsar.

Sub: Rectification of Blackspots on Jalandhar-Amritsar Section of NH-01(New NH -03) in the state of Punjab on EPC mode under Development of Brownfield spur of Delhi – Amritsar –Katra Expressway : Issuance of NOC for construction of six lane structures from Ch.407.100(Dhilwan) to Ch.456.100 (Verka) of NH-03 in the state of Punjab –reg.

Ref: Your office letter No. NHAI/PD/ PIU-ASR/NH-3/2021 /2793 date 15-12-2021

In regard to above cited subject and referred letter, NOC related to structures pertaining to this office is hereby provisionally granted for forest clearance purpose only. This office has right to revoke this NOC upon any objections, raised by field staff or divisional office. No construction or dismantling of the structures pertaining to this office is allowed before the vetting of the drawings for the same from this office.



Superintending Engineer,
Amritsar Drainage Circle,
Amritsar.

CC: -

Copy of above is forwarded to Executive Engineer, Amritsar drainage Division, Amritsar & Drainage construction Division, Amritsar for information and necessary action.



परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
परियोजना कार्य विभाग, अमृतसर
P.O.:- 141 001

No 1090-91 /183/M/General

Dt. 17/12/2021

To



Project Director,
National Highway Authority of India,
PIU-Amritsar.

Sub:- Rectification of Black spots on Jalandhar-Amritsar section of NH-01 (New NH-03) in the state of Punjab on EPC mode under development of Brownfield spur of Delhi-Amritsar-Katra expressway: Issuance of NOC for construction of six lane structure from Ch. 407.100 (Dhilwan) to Ch. 456.100 (Verka) of NH-03 in the state of Punjab-reg.

Remarks:- No. NHAI/PD/PIU-ASR-NH-3/2021/2792, Dt. 15-12-2021.


As reported by Executive Engineer, Majitha Division UBDC, Amritsar vide their office letter no. 1040, dated 17/12/2021, in principle NOC is hereby issued for the above cited project for obtaining forest clearance. However, final NOC for the project shall be issued on submission of the detailed drawings by NHAI.

This is for information and further necessary action.


Superintending Engineer,
Upper Bari Doab Canal Circle,
Amritsar. 

Copy:-

Executive Engineer, Majitha Division UBDC, Amritsar for information.


परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
परियोजना कार्यालय इलाहाबाद, अमृतसर
PIU-Amritsar

COST BENEFIT ANALYSIS IN ACCORDANCE WITH GOI FC GUIDELINES NO-7-69 / 2011-FC DATED 01-08-2017

Name of Project: Construction of 6-lane structures on NH-1 Section (KM 407+000 to KM 444+794) on Brownfield Amritsar Spur of Delhi-Amritsar-Katra Expressway

Nature of Proposal: Diversion of **39.7656 ha** of Forest land under FCA, 1980 for structure improvement

Purpose: The Cost Benefit analysis has been undertaken for proposed Diversion of Forest Land being affected due to rectification of Blackspots on existing NH-1 from KM 407+000 to KM 444+794 in the State of Punjab.

Total Length of the Project: 15.586 km

Number of districts involve: 02

Number of forest divisions involve: 02

Sl. No.	Forest Division	Proposed Forest Area for Diversion (ha)
1	Jalandhar	9.2556
2	Amritsar	30.510
Total		39.7656

Table A: Cases under which a Cost-benefit analysis for forest diversion is required

Sl. No.	Nature of Proposal	Applicable/Not Applicable	Remarks
1	All Categories of proposal involving forest land up to 20 hectares in plains and up to 5 hectares in hills	Not Applicable	These proposals may be considered a case-to-case basis and value judgments.
2	Proposed for defense installation purpose and oil prospecting only	Not Applicable	In view of national priority accorded to these sectors, the proposal would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use
3	Habitation, establishment of industrial units, tourist lodge complex and other building construction	Not Applicable	These activities being detrimental in protection and conservation of proposals would be rarely entertained.
4	All other proposal involving forest land more than 20 hectares in plain and more than 5 hectares in hills including roads, transmission line, minor, medium and major irrigation projects, hydro projects, mining	Applicable	These are cases where a cost benefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest.

**COST BENEFIT ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDELINES NO-7-69 / 2011-FC DATED 01-08-2017**

Sl. No.	Nature of Proposal	Applicable/Not Applicable	Remarks
	activity, railway line, location specific installations like microwave stations, auto repeater centers, TV tower etc.		

Since, the proposal is for diversion of forest land measuring more than 20 hectare in plain area for the road project, cost benefit analysis report is applicable.

Table B: Estimation of Cost of forest diversion

Sl. No.	Parameters	Given Guideline	Evaluation
1	Ecosystem services losses due to proposed forest diversion	Economic value of loss of ecosystem services due to diversion of forest shall be the net present Value (NPV) of the forest land being diverted as prescribed by central Government (MoEF&CC) Note: In case of National parks the NPV shall be ten (10) times the normal NPV and in case wildlife Sanctuary the NPV shall be five (5) times the normal NPV or otherwise prescribed by the ministry or any other competent authority	NPV has been taken as INR 9,57,780/- (~9.58) lakhs per hectare (Tropical Dry Deciduous Forest with density less than 0.7) Therefore losses = 9.58 x 39.7656 = 380.954448 Lakhs
2	Loss of animal husbandry productivity, including loss of fodder	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum	The forest land proposed for diversion is roadside plantation notified by Govt. of Punjab as Protected Forest. No grazing activity is being / has been carried out on these patches. Therefore, no loss of animal husbandry productivity including loss of fodder will take place. 10% of NPV =10% of NPV (380.954448 lakhs) = 38.0954448 lakhs . So considered amount is INR 380.954448 Lakhs .


 परियोजना निदेशक/Project Director
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 National Highways Authority of India
 परियोजना कार्यालयन उकाई, अमृतसर
 PIU-Amritsar

**COST BENEFIT ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDELINES NO-7-69/2011-FC DATED 01-08-2017**


Sl. No.	Parameters	Given Guideline	Evaluation
3	Cost of human resettlement	To be quantified and expressed in monetary terms as per approved R & R plan.	NIL No resettlement in the forest land proposed for diversion.
4	Loss of public facilities and administrative infrastructure (Roads, buildings School, dispensaries, electric lines, railways etc) on forest land, or which would require forest land if these facilities were diverted due to the project.	To be quantified and expressed in monetary terms on actual basis at the time of diversion.	No loss of public facilities and administrative infrastructure on forest land.
5	Possession value of forest land diverted	30% of environment costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum	Possession value of Forest Land = 30 % of NPV = 30% of 380.954448 lakhs = 114.2863344 Lakhs
6	Cost of Suffering to oustees	The social cost of rehabilitation of Ousteers (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R & R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted	Nil as no Resettlement and Rehabilitation is required in forest land proposed to be diverted.
7	Habitat fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule.	Habitat fragmentation Cost = 50% of NPV = 50% of 380.954448 Lakhs = 190.477224 Lakhs
8	Compensatory	The actual cost of compensatory	Total 79.53 Hectare of

**COST BENEFIT ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDELINES NO-7-69/ 2011-FC DATED 01-08-2017**

Sl. No.	Parameters	Given Guideline	Evaluation
	afforestation and soil & moisture conservation cost	afforestation and soil & moisture conservation and its maintenance in future at present discounted value	degraded forest land which is about two times of the forest area proposed for diversion has been proposed for CA in lieu of 39.7656 ha forest land. Cost of CA is INR 453.321 Lakhs (@ 5.70 lakhs per ha)

Table C: Existing Guidelines for estimating benefits of forest land diversion in CBA

Sl. No.	Parameters	Given Guideline	Evaluation
1	Increase in productivity attributable to the specific project	To be quantified and expressed in monetary terms avoiding double counting	<p>The proposal for which diversion of forest land is sought is for rectification of Blackspots on existing NH-1 from KM 407+000 to KM 444+794 in the state of Punjab.</p> <p>The proposed expansion shall reduce traffic congestion and result in time savings. Moreover, the proposed expansion will improve road safety, save fuel and cost, generate employment, boost tourism and commercial activities in nearby areas etc. The proposed project shall improve trade efficiency and bring economic growth in the region.</p> <p>Again, directly the project will have the potential for employment generation for local people during the construction period. The proposed project does not involve any manufacturing or production. Hence, this section is not applicable. Monetary benefits due to increase in productivity is NIL.</p>
2	Benefits of economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.	Economic benefit in terms of increase in trade, saving in vehicular operation and maintenance cost, better connectivity, safer journey to commuter and saving of travel time. Improved road connectivity helps in better implementation and management of government schemes. It will provide last and economical


 Project Director
 National Highways Authority of India
 पारितोषिक कार्यालय इलाहाबाद, उत्तर प्रदेश
 NH- Amritsar

COST BENEFIT ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDELINES NO-7-69 / 2011-FC DATED 01-08-2017

Sl. No.	Parameters	Given Guideline	Evaluation
			<p>transport of goods, after completion of project, the local people and industries situated in the area will be greatly benefited. The project road will provide safe and fast, economical and environment friendly transportation to the State, which in term will accelerate the rate of growth in this area.</p> <p>The expansion of existing highway shall decongest the highway and results in time and fuel savings.</p> <p>Average Annual Daily Traffic = 10909 Passenger Car Unit (PCU).</p> <p>Fuel saving = avg. 1.5 Litre per PCU</p> <p>Average fuel cost = INR 90 per Litre</p> <p>Fuel saving on 10909 PCU = 1.5 x 10909 = 16363.5 Litres per day</p> <p>Savings (in monetary terms) = 16363.5 x 90 = 1472715 INR = INR 14.72715 Lakhs</p> <p>Total benefits in 40 years = 14.72715 x 40 x 365 = INR 215016.39 Lakhs</p>
3	No. of population benefited due to specific project	As per the detailed project report	Population of Jalandhar district (2193590), Kapurthala district (815168) and Amritsar district (2490656) will be benefitted due to proposed development.
4	Economic benefits due to of direct and indirect employment due to the project.	As per the detailed project report	<p>A total of 430174 man-days employment will be generated during construction phase for skilled/unskilled labour.</p> <p>Base wage rate for the year 2019 – 20 is INR360 per day.</p> <p>Total financial implication will come out to be = 430174x360= INR 1548.6264 Lakhs</p>
5	Economic benefits due to Compensatory Afforestation	Benefits from such compensatory forestation accruing over next 50 years monetized and discounted to the	In lieu of total trees to be removed from the proposed Row in forest land along the project road, it is proposed to undertake at least twice of affected area as Compensatory afforestation as per Forest Conservation Act, 1980 to

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National Highways Authority of India
परियोजना कार्यान्वयन इकाई, अमृतसर
PHU-Amritsar

**COST BENEFIT ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDELINES NO-7-69 / 2011-FC DATED 01-08-2017**

SL No.	Parameters	Given Guideline	Evaluation
		present value should be included as benefits of compensatory afforestation. *For benefits of CA the guideline of the ministry for NPV estimation may be considered.	increase the net productivity. The Compensatory Afforestation will be done in 79.53 ha of degraded forest land which is down the line would be having a density of minimum 0.7. The ecological value for a 50 years period for the density of 1.0 is INR 126.74 Lakhs per hectare. By considering minimum 0.4 density the ecological gain for the project would be INR $126.74 \times 0.4 \times 79.53 =$ INR 4031.85288 Lakhs

Summary of Cost –Benefit Analysis for the Project

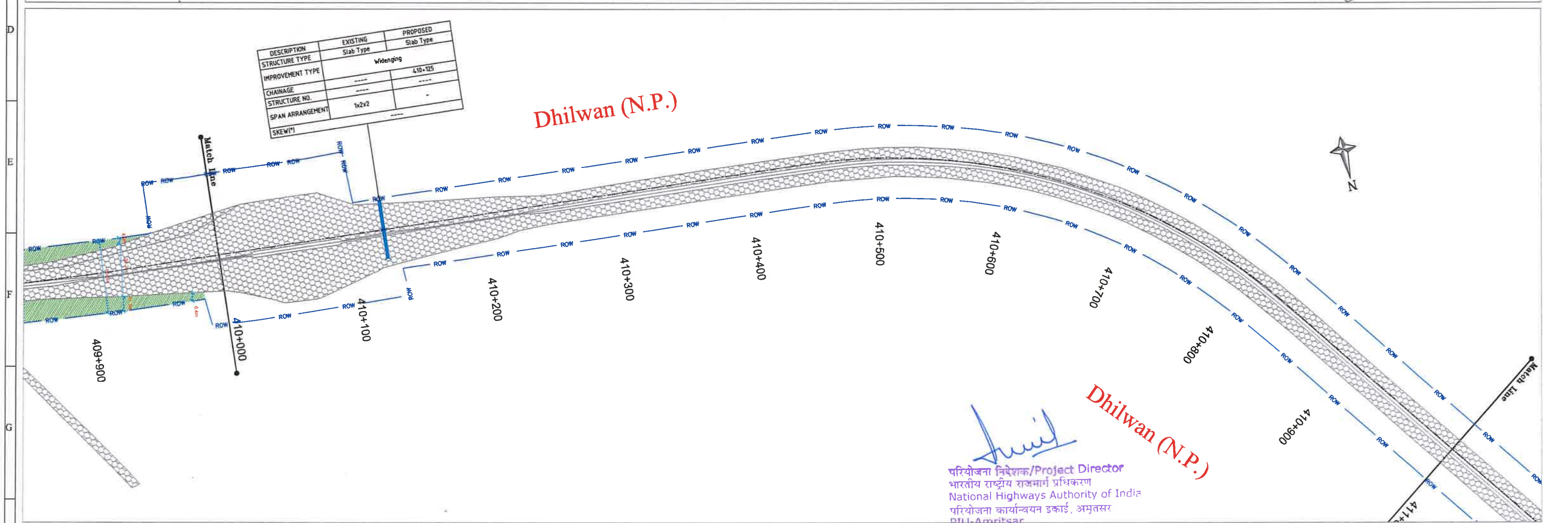
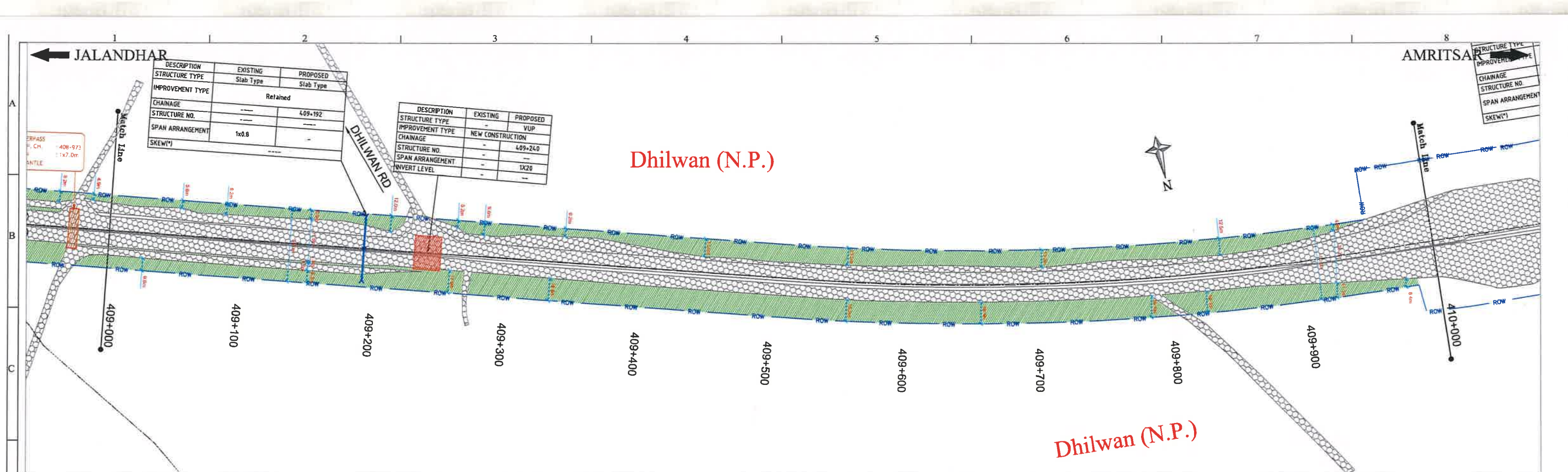
SL No.	Cost (in Lakh)	Benefit (Lakh)
1	Ecosystem services losses = INR 352.720872 Lakhs	Benefits of economy due to the specific project = INR 215016.39 Lakhs
2	Loss of Animal Husbandry Productivity including loss of Fodder= INR 38.0954448 Lakhs.	Economic benefits due to of direct and indirect employment due to the project = INR 1548.6264 Lakhs
3	Possession Value of Forest Land diverted = Rs 114.2863344 Lakhs	Ecology gains due to Compensatory Afforestation = INR 4031.85288 lakhs
4	Habitat Fragmentation Cost = INR 190.477224 Lakhs	
5	Compensatory Afforestation and Soil and Moisture Conservation = INR 453.321 Lakhs	
	Total Cost = INR 1177.134451 Lakhs	Total Benefit = INR 220596.86928 Lakhs



Cost Benefit Ratio:- $220596.86928/1177.134451 = >1$ Therefore, project will have multifold benefit on the economy.

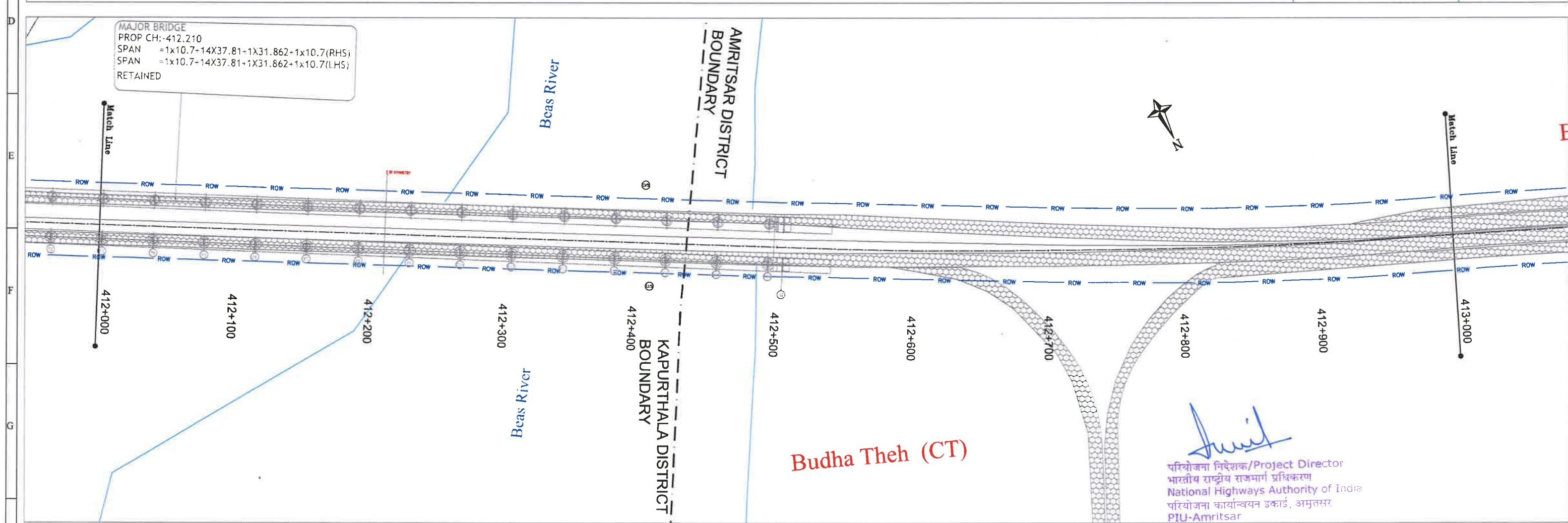
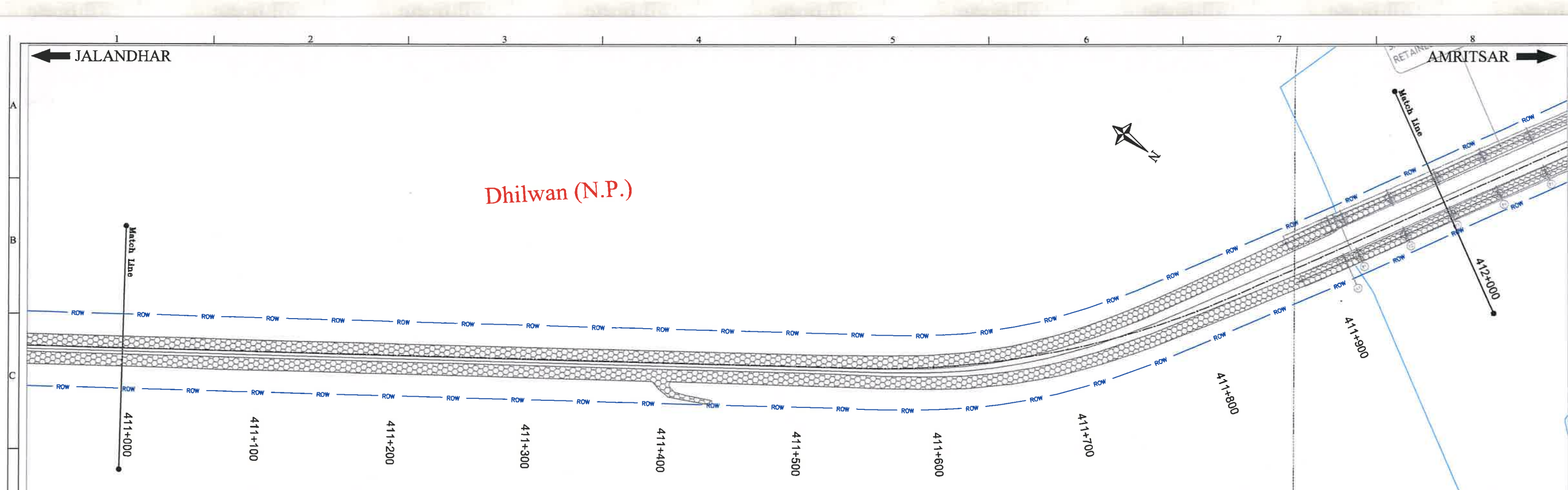
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Place: Amritsar

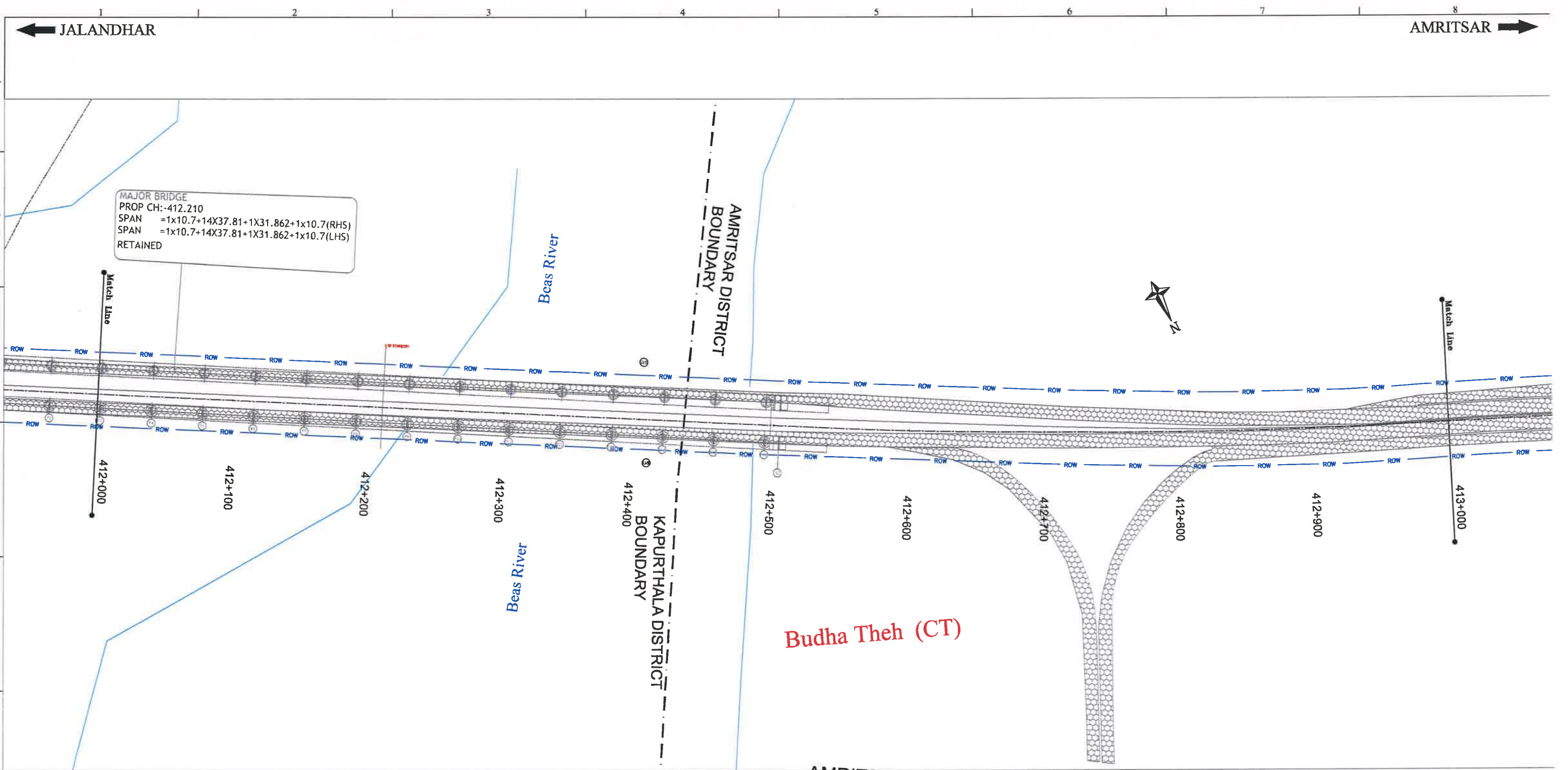
(Sunil Yadav)
Project Director
NHAI, PIU-Amritsar



CLIENT:  NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				LEGEND <div>Existing Road Formation Width</div> <div>Protected Forest Strip</div> <div>Existing ROW</div> <div>Existing Center line</div> <div>Proposed Center line</div> <div>Village Boundary</div>				CONSULTANT:  FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Drawn by: D.J. Designed by: K.P. Checked by: J.V. Approved By: P.R. Date: April - 2021				STATUS: DETAIL PROJECT REPORT PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway. TITLE: STRIP PLAN Km. 409+000 to 411+000 DRG NO.: FIPL-00001427/HW/SPUR/SP-02 REV.: 0 SHEET:			
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NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10,Dwarka, New Delhi - 110075				Existing Road Formation Width				Feedback Infra Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Designed by: K.P.				PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.			
				Protected Forest Strip								Checked by: J.V.				TITLE: STRIP PLAN Km. 411+000 to 413+000			
				Existing ROW								Approved By: P.R.				DRG NO.: FIPL-00001427/HW/SPUR/SP-03			
				Existing Center line								Date: April - 2021				REV. 0			
				Proposed Center line												SHEET:			
				Village Boundary															
REV DATE DESCRIPTION OF REVISIONS BY				GPS Point				The information contained herein is Confidential & Property of Feedback Infra Private Limited and not for Publication. The Information is Issued on the Understanding that no part thereof shall be Copied or Communicated to a Third Party without Authorization in Writing from Feedback Infra Private Limited				Scale: A2 1:2000 A3 1:2800							

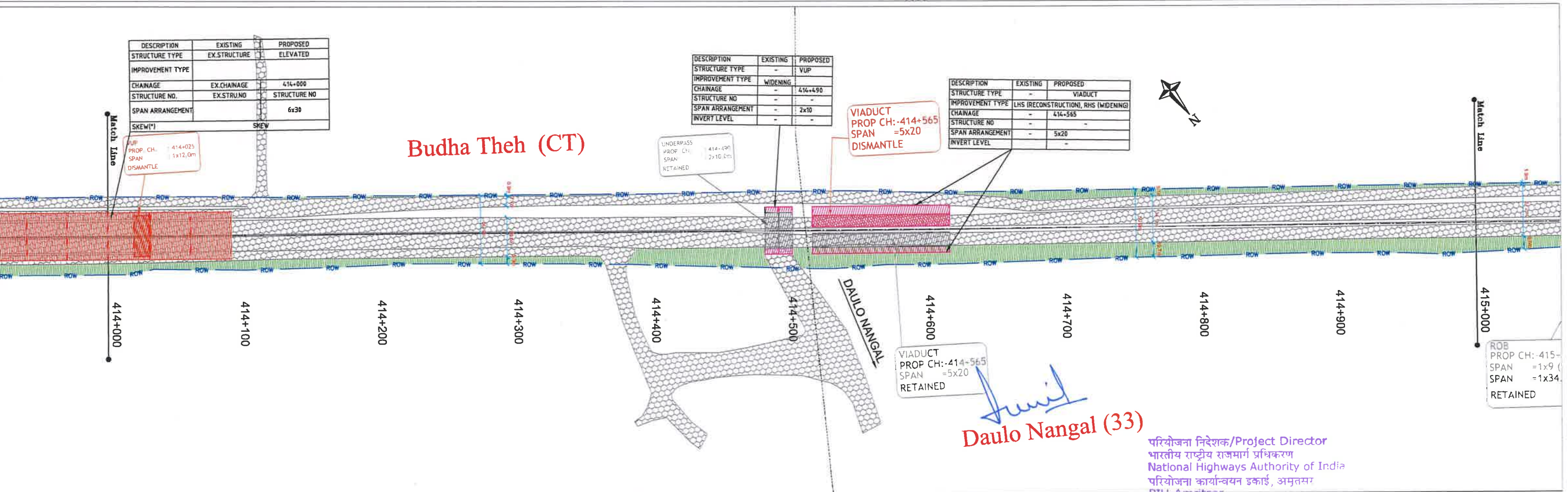
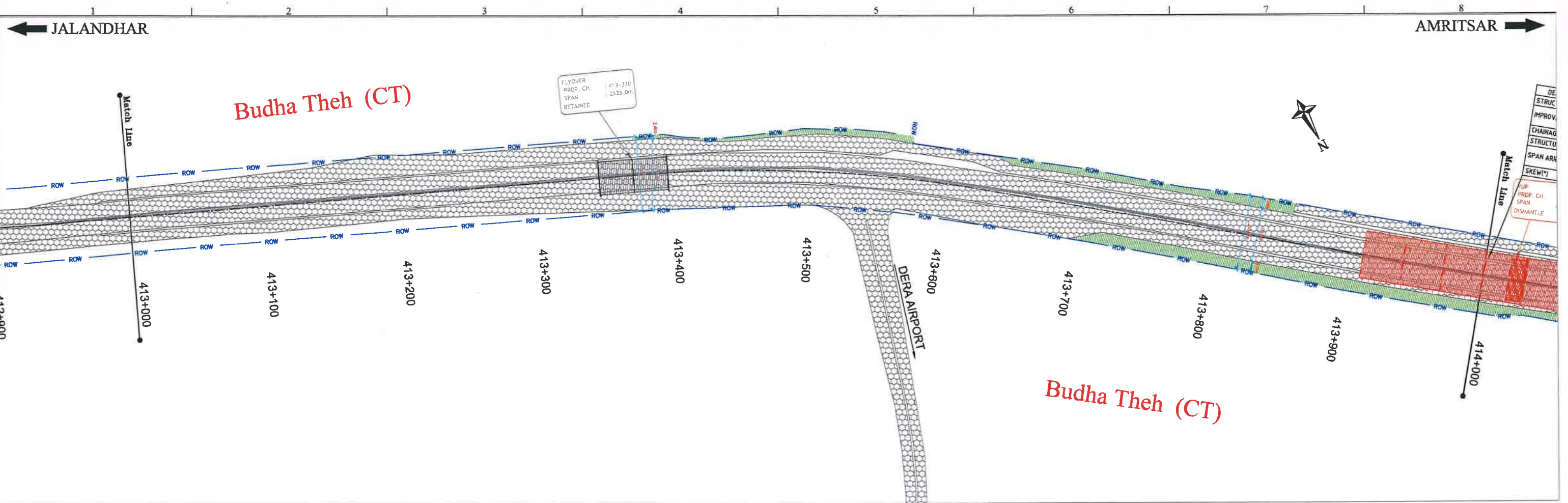


MAJOR BRIDGE
PROP CH:-412.210
SPAN =1x10.7+14X37.81+1X31.862+1x10.7(RHS)
SPAN =1x10.7+14X37.81+1X31.862+1x10.7(LHS)
RETAINED

Budha Theh (CT)

[Signature]
परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
परियोजना कार्यान्वयन इकाई, अमृतसर
PIU-Amritsar

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				Designed by: K.P.		PROJECT:		Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.											
				Checked by: J.V.		TITLE:		STRIP PLAN Km. 412+000 to 413+000											
				Approved By: P.R.		DRG NO.:		FIPL-00001427/HW/SPUR/SP-01		REV.	SHEET:								
REV DATE DESCRIPTION OF REVISIONS BY				Scale: A2 1:2000 A3 1:2800		Date: April. - 2021				0									



REV	DATE	DESCRIPTION OF REVISIONS	BY

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Government of India
G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075

LEGEND

- Existing Road Formation Width
- Protected Forest Strip
- Existing ROW
- Existing Center line
- Proposed Center line
- Village Boundary

CONSULTANT:

FEEDBACK INFRA
Making Infrastructure + Appen

Feedback Infra Private Limited
15th Floor, Tower 9B
DLF Cyber City Phase-III,
Gurgaon 122 002

Drawn by: D.J.

Designed by: K.P.

Checked by: J.V.

Approved By: P.R.

Date: April - 2021

STATUS: **DETAIL PROJECT REPORT**

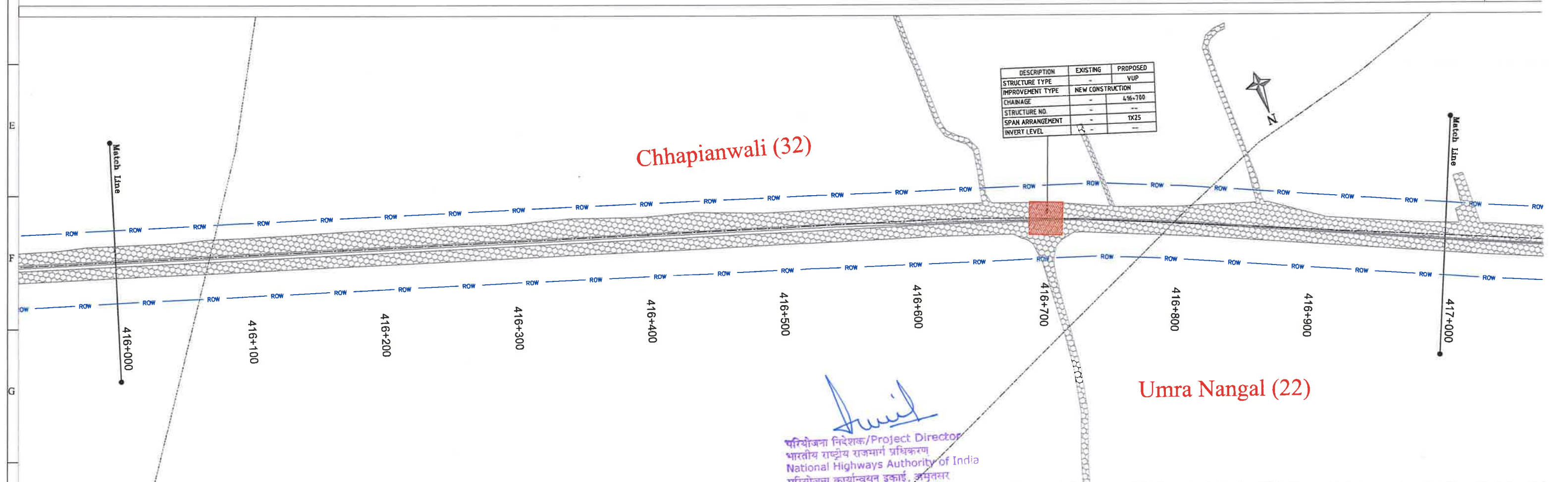
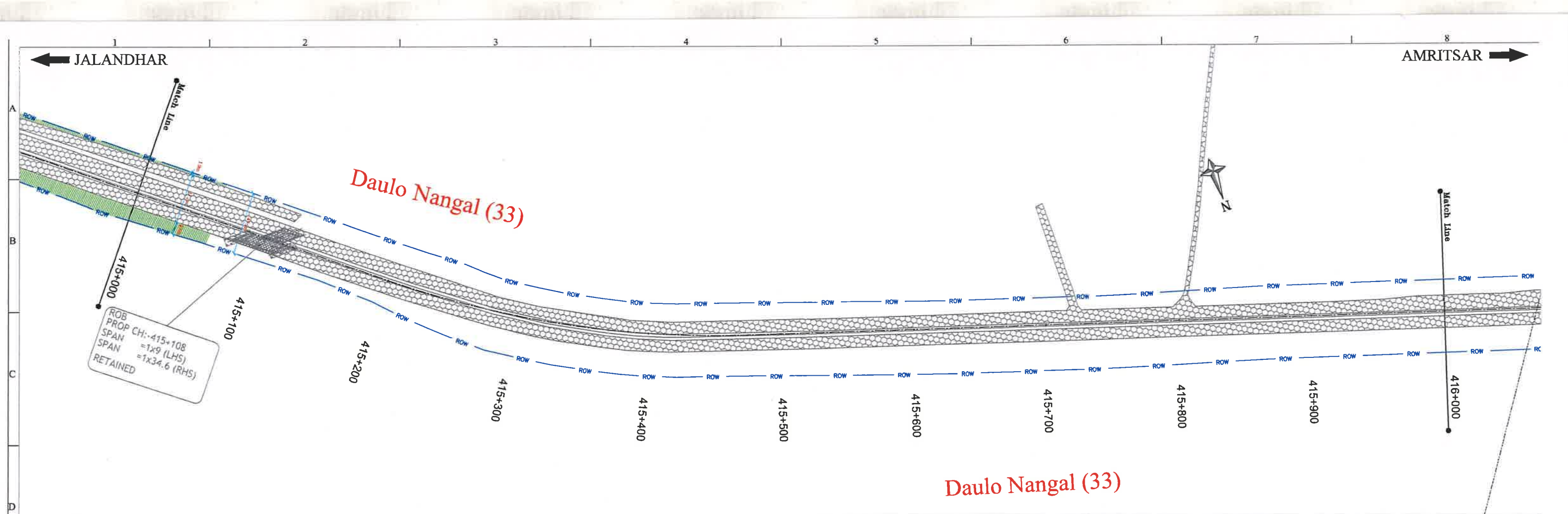
PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.









TITLE: **STRIP PLAN**
Km. 413+000 to 415+000

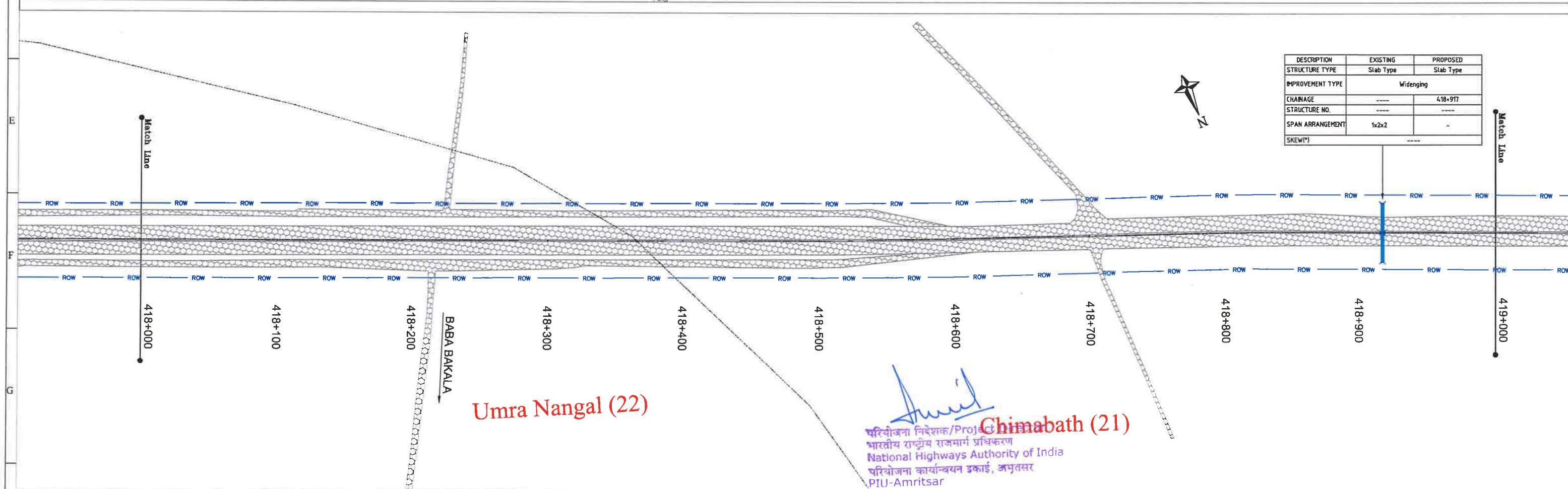
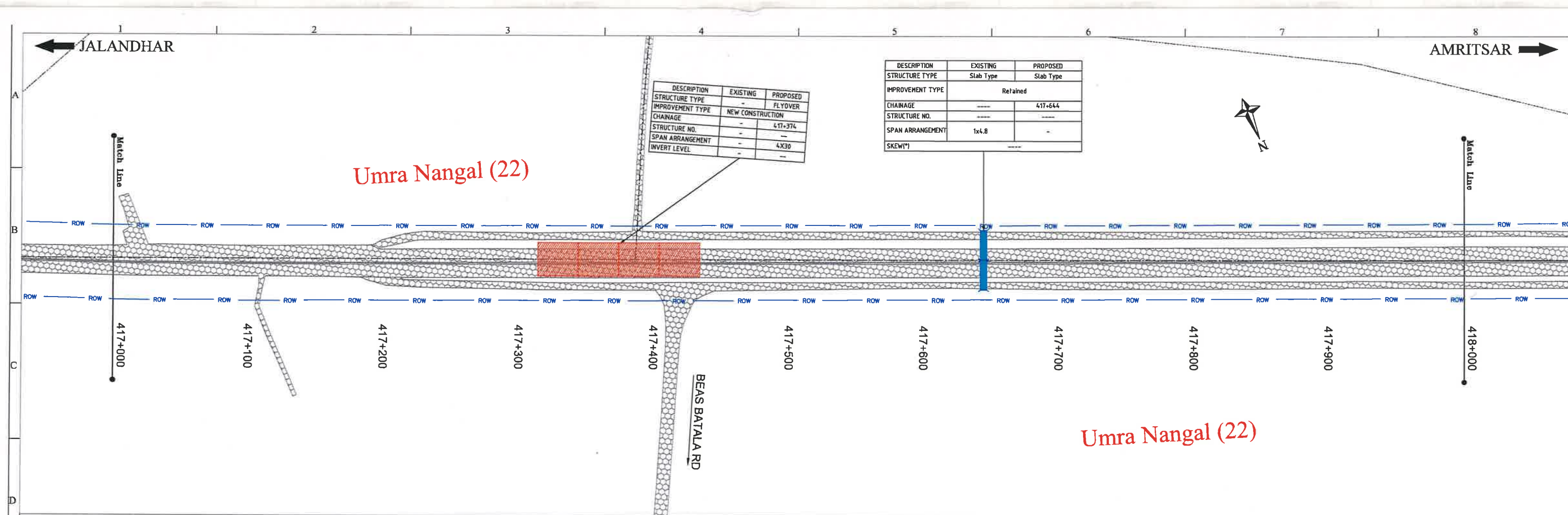
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REV. 0

SHEET:



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REV	DATE	DESCRIPTION OF REVISIONS	BY													



CLIENT:				CONSULTANT:				Drawn by: D. J.				STATUS: DETAIL PROJECT REPORT			
NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Designed by: K. P.				PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.			
								Checked by: J. V.				TITLE: STRIP PLAN Km. 417+000 to 419+000			
								Approved By: P. R.				DRG NO.: FIPL-00001427/HW/SPUR/SP-04			
								Scale: A2 1:2000 A3 1:2800				Date: April. - 2021			
REV DATE DESCRIPTION OF REVISIONS BY				The information contained herein is Confidential & Property of Feedback Infra Private Limited and not for Publication. The Information is Issued on the Understanding that no part thereof shall be Copied or Communicated to a Third Party without Authorization in Writing from Feedback Infra Private Limited								REV. 0 SHEET:			

DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	Slab Type	Slab Type
IMPROVEMENT TYPE	Retained	
CHAINAGE		419+790
STRUCTURE NO.		
SPAN ARRANGEMENT	1x2x2	
SKUEW(°)		

Rayaa (NP)

DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	EX.STRUCTURE	ELEVATED
IMPROVEMENT TYPE		
CHAINAGE	EX CHAINAGE	419+800
STRUCTURE NO.	EX.STRU.NO	STRUCTURE NO
SPAN ARRANGEMENT		15x40
SKEW(°)		SKEW

DESCRIPTION	PROPOSED
STRUCTURE TYPE	MINOR BRIDGE
IMPROVEMENT TYPE	WIDENING (OUTER)
CHAINAGE	420+530
STRUCTURE NO.	-
SPAN ARRANGEMENT	1X10.0
INVERT LEVEL	-

Rayaa (NP)

DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	Slab Type	Slab Type
IMPROVEMENT TYPE	Widening	
CHAINAGE	-----	-----
STRUCTURE NO.	-----	-----
SPAN ARRANGEMENT	1x2x2	-----
SKEW(°)		

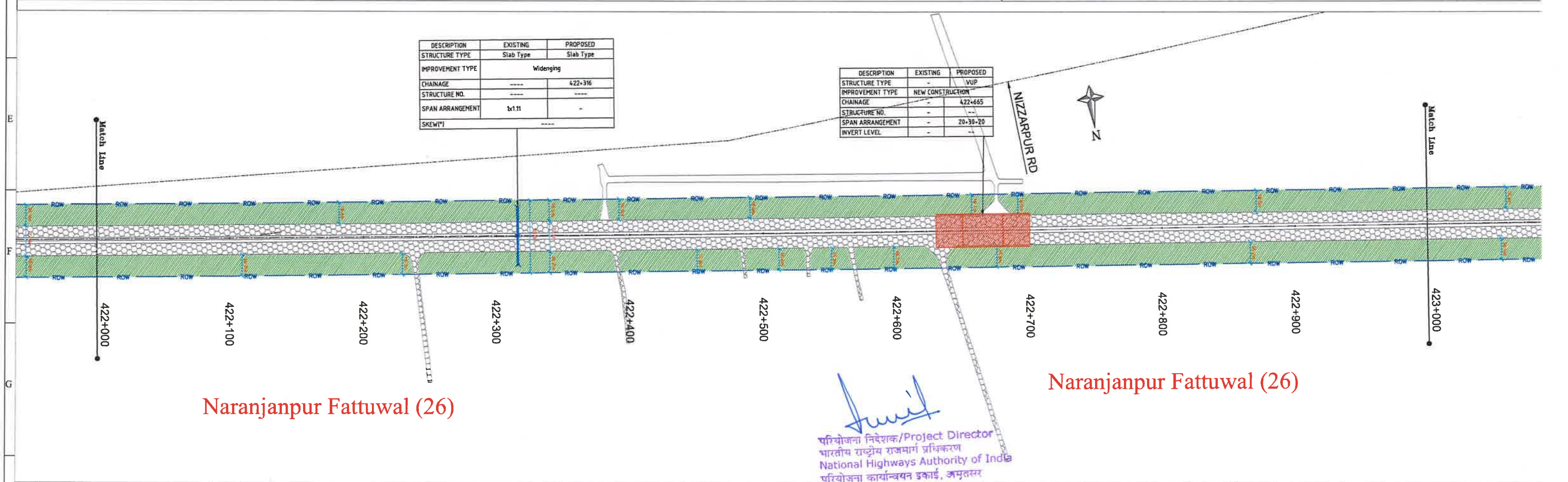
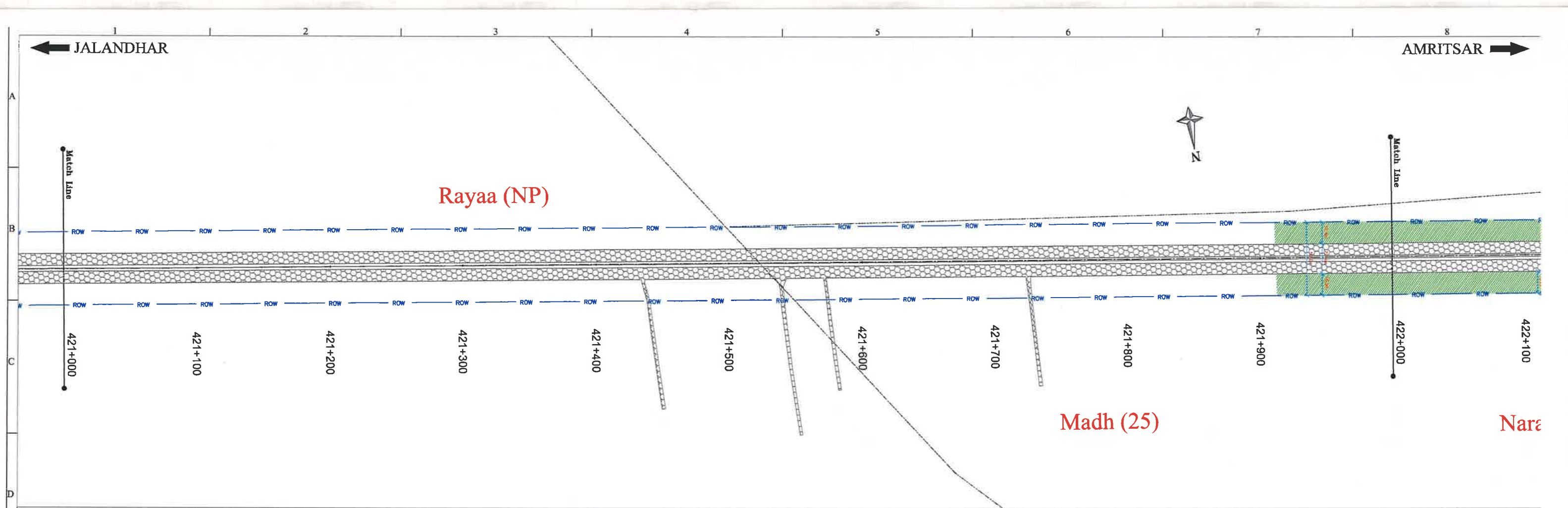
DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	Slab Type	Slab Type
IMPROVEMENT TYPE	Widening	
CHAINAGE	1+00.00	420+438
STRUCTURE NO.	1	2
SPAN ARRANGEMENT	1x2x2	1
SKEW(%)	0	0

MINOR BRIDGE
PROP. CH.: 420-530
SPAN: 1X10M
LENGTH: 10m
RETAINED

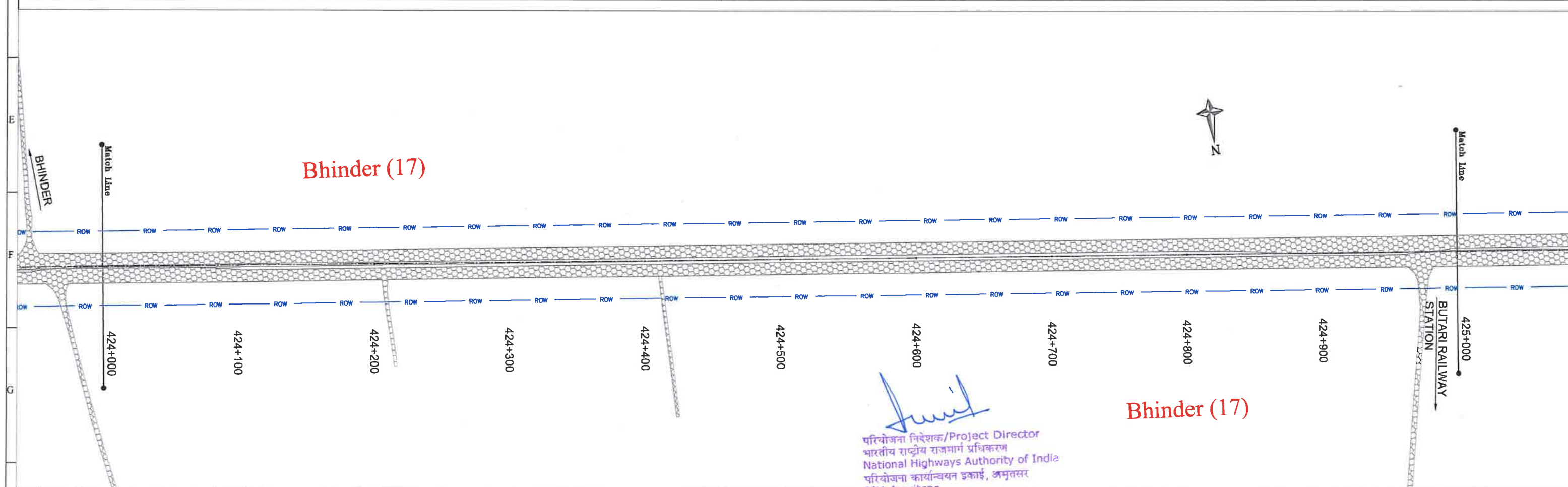
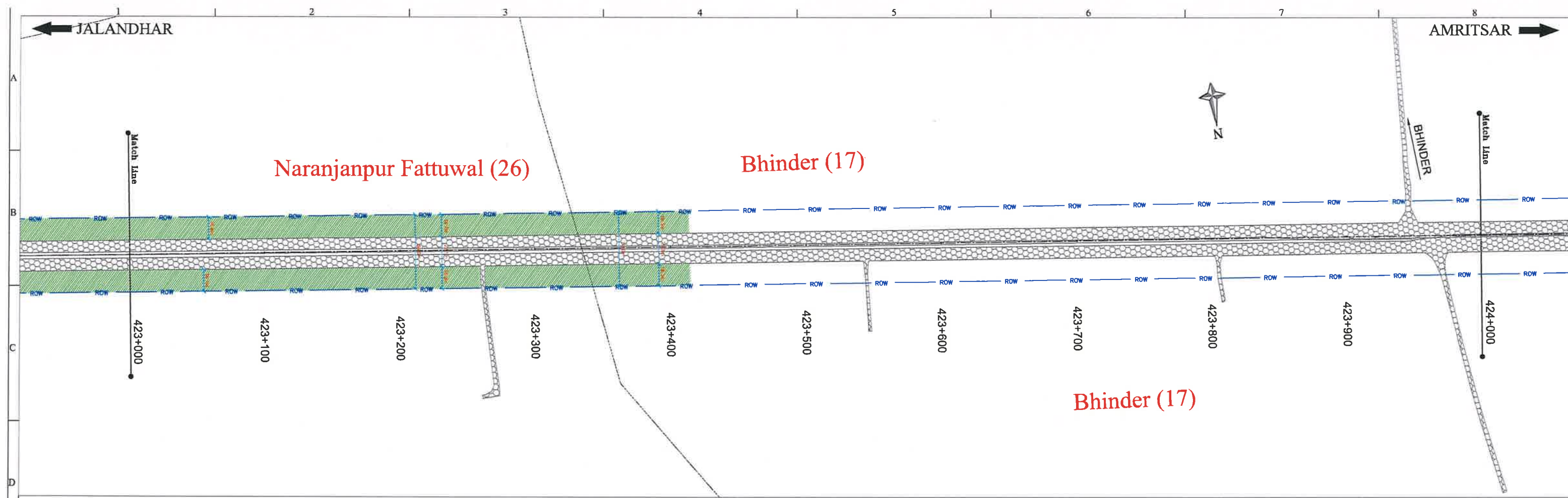
परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
परियोजना कार्यान्वयन इकाई, अमृतसर
PIU-Amritsar

REV.	SHEET:
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REV	DATE	DESCRIPTION OF REVISIONS	BY
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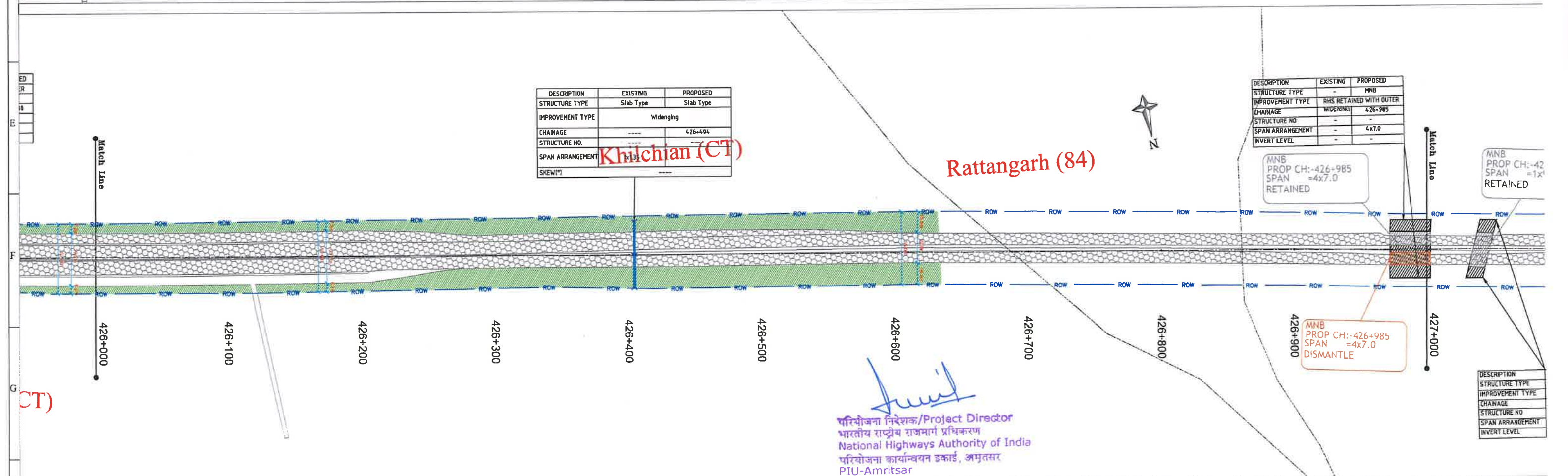
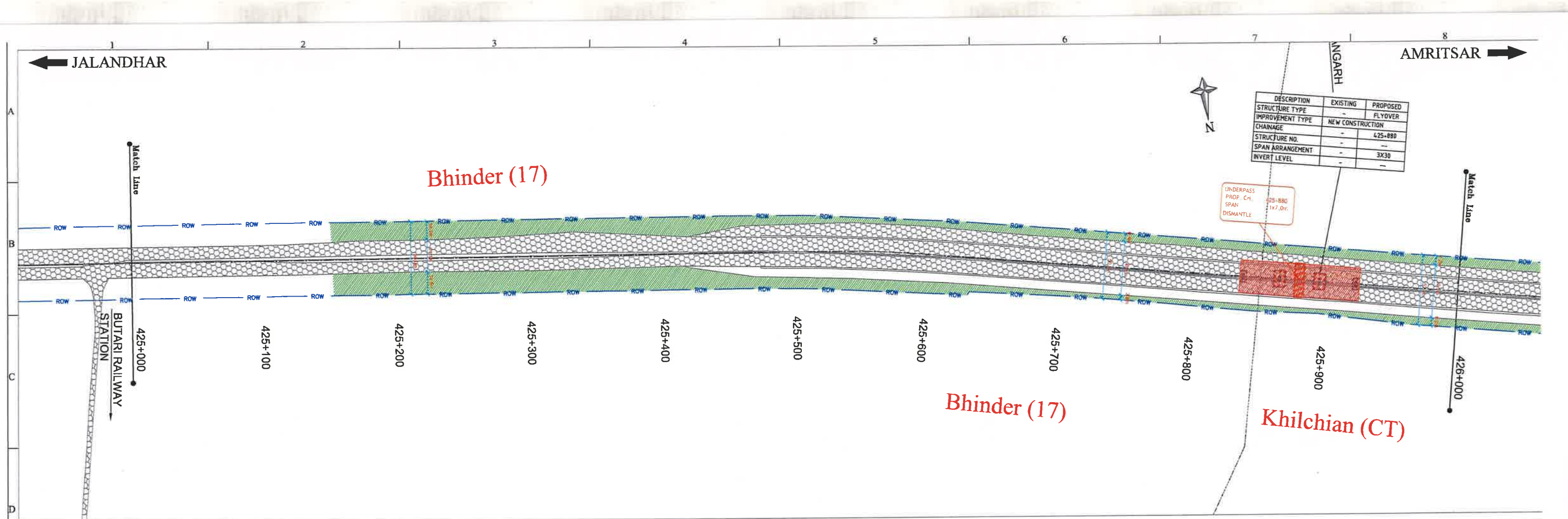


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NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Designed by: K. P.				PROJECT: Construction of 6-lane elevated structure in Rayaa at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.			
LEGEND				The information contained herein is Confidential & Property of Feedback Infra Private Limited and not for Publication. The Information is issued on the Understanding that no part thereof shall be Copied or Communicated to a Third Party without Authorization in Writing from Feedback Infra Private Limited				Checked by: J. V.				TITLE: STRIP PLAN Km. 421+000 to 423+000			
REV. DATE DESCRIPTION OF REVISIONS BY				Scale: A2 1:2000 A3 1:2800				Approved By: P. R.				DRG NO.: FIPL-00001427/HW/SPUR/SP-06			
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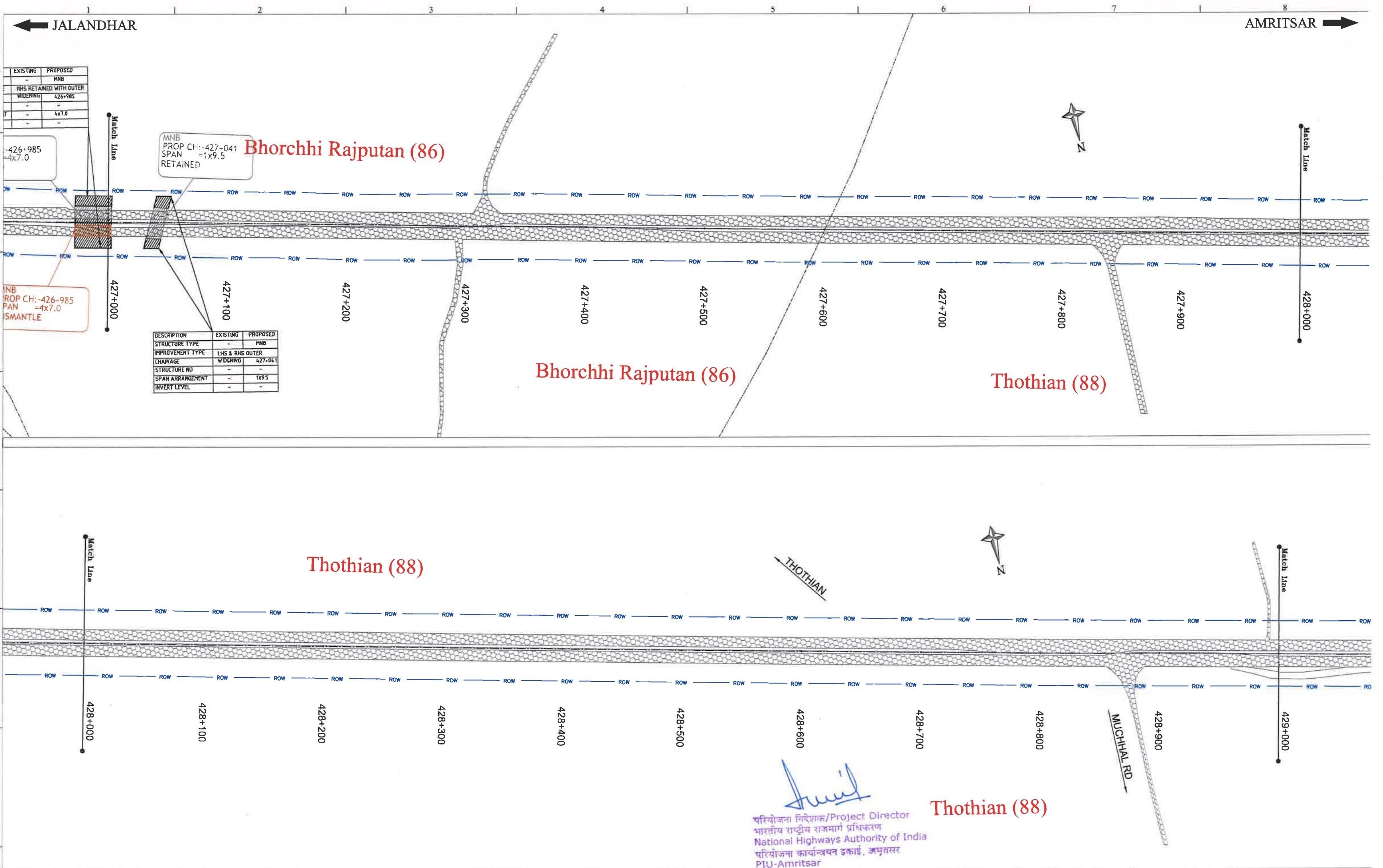


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National Highways Authority of India
परियोजना कार्यान्वयन इकाई, अमृतसर
PIU-Amritsar

CLIENT:				CONSULTANT:				STATUS:			
 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				 FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				DETAIL PROJECT REPORT			
REV				The information contained herein is Confidential & Property of Feedback Infra Private Limited and not for Publication. The Information is Issued on the Understanding that no part thereof shall be Copied or Communicated to a Third Party without Authorization in Writing from Feedback Infra Private Limited				PROJECT:			
DATE				LEGEND				DESIGNED BY:			
DESCRIPTION OF REVISIONS				Existing Road Formation Width				CHECKED BY:			
BY				Protected Forest Strip				APPROVED BY:			
				Existing ROW				DATE:			
				Existing Center line				REV. 0			
				Proposed Center line				SHEET:			
				Village Boundary				DRG NO.: FIPL-00001427/HW/SPUR/SP-07			
				GPS Point							



CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				LEGEND Existing Road Formation Width Protected Forest Strip Existing ROW Existing Center line Proposed Center line Village Boundary GPS Point				CONSULTANT: FEEDBACK INFRA Making Infrastructure +appen Feedback Infra Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Drawn by: D.J. Designed by: K.P. Checked by: J.V. Approved By: P.R. Scale: A2 1:2000, A3 1:2800 Date: April - 2021				STATUS: PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway. TITLE: STRIP PLAN Km. 425+000 to 427+000 DRG NO.: FIPL-00001427/HW/SPUR/SP-08 REV.: 0 SHEET:			
REV	DATE	DESCRIPTION OF REVISIONS	BY																



REV	DATE	DESCRIPTION OF REVISIONS	BY

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road, Transport & Highways)
Government of India
G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075

LEGEND

- Existing Road Formation Width
- Protected Forest Strip
- Existing ROW
- Existing Center line
- Proposed Center line
- Village Boundary

L01 GPS Point

CONSULTANT:

FEEDBACK INFRA
Making Infrastructure + Capital

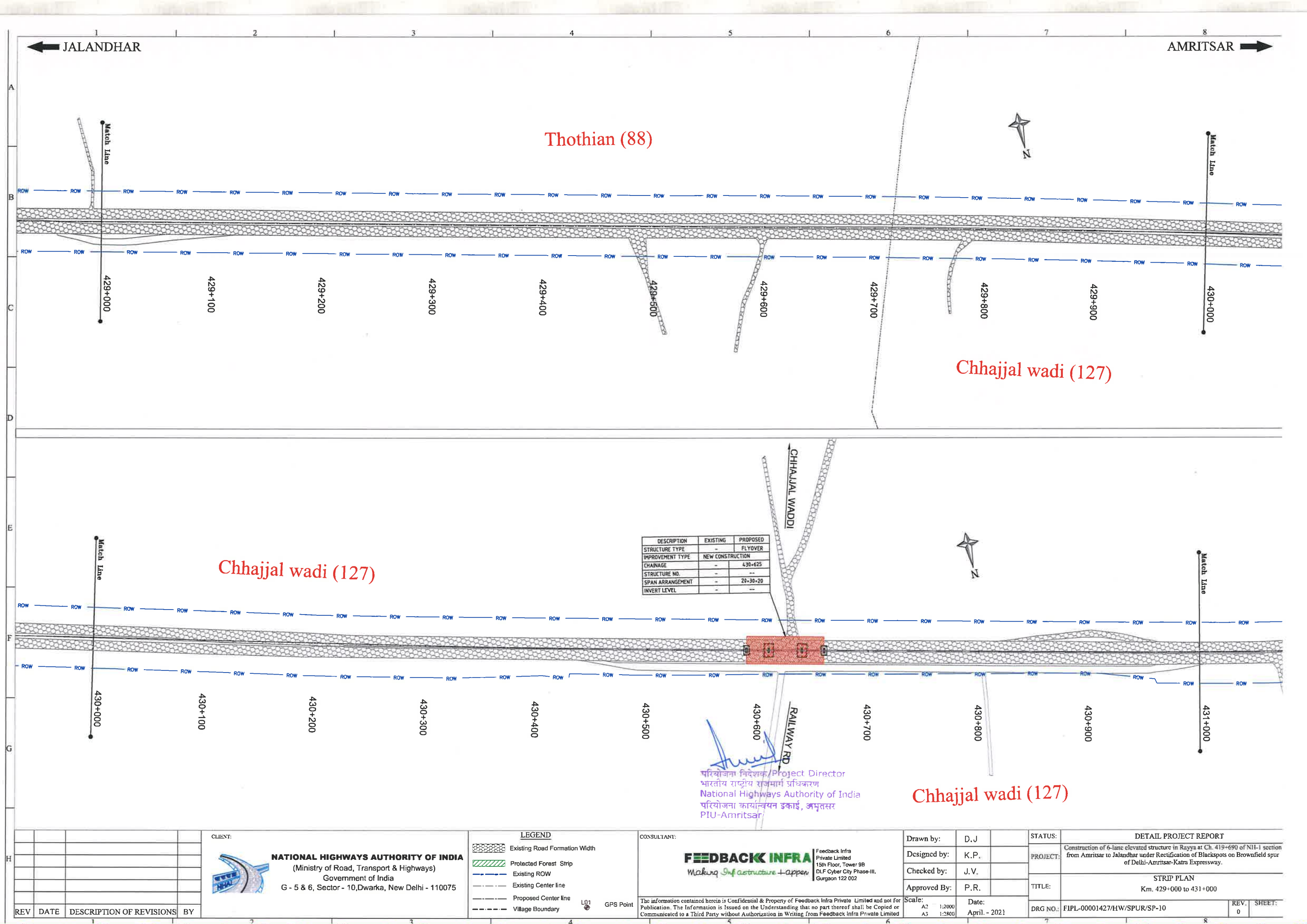
Feedback Infra Private Limited
15th Floor, Tower 9B
DLF Cyber City Phase-III,
Gurgaon 122 002

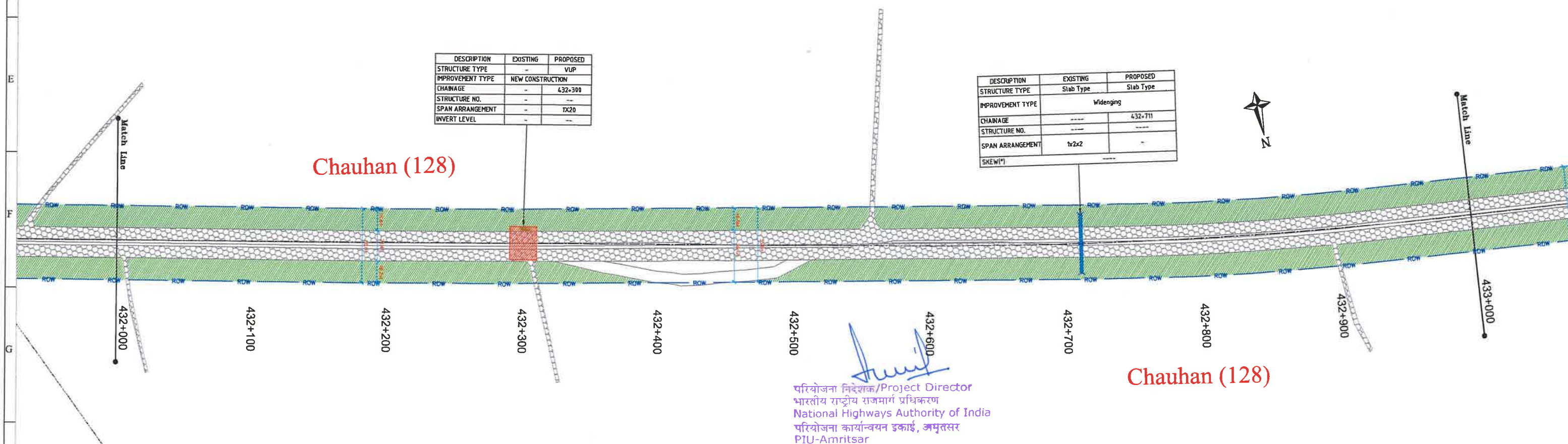
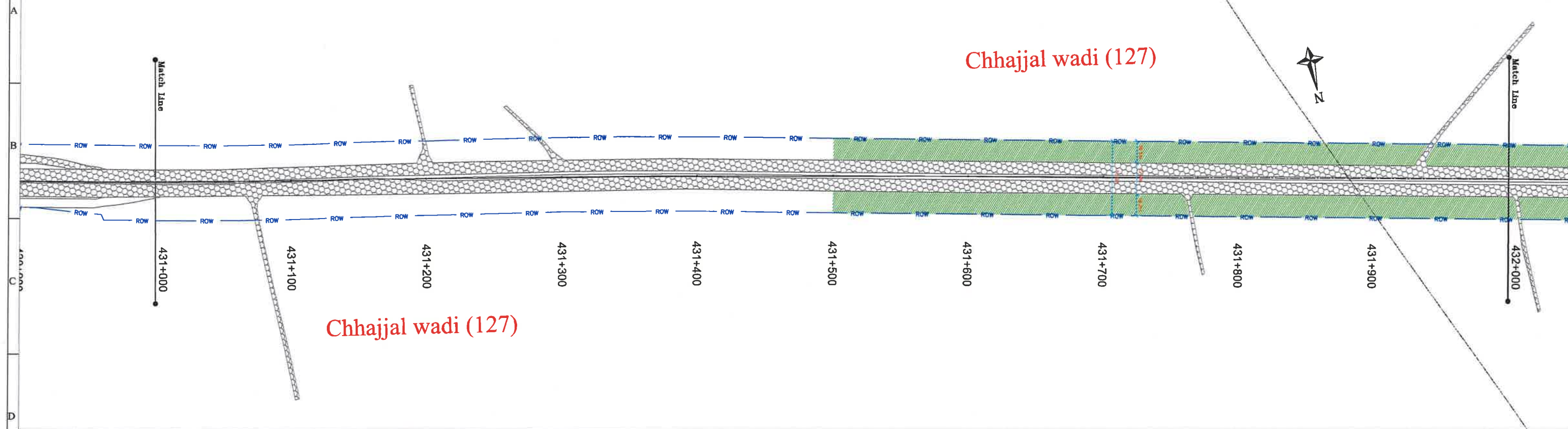
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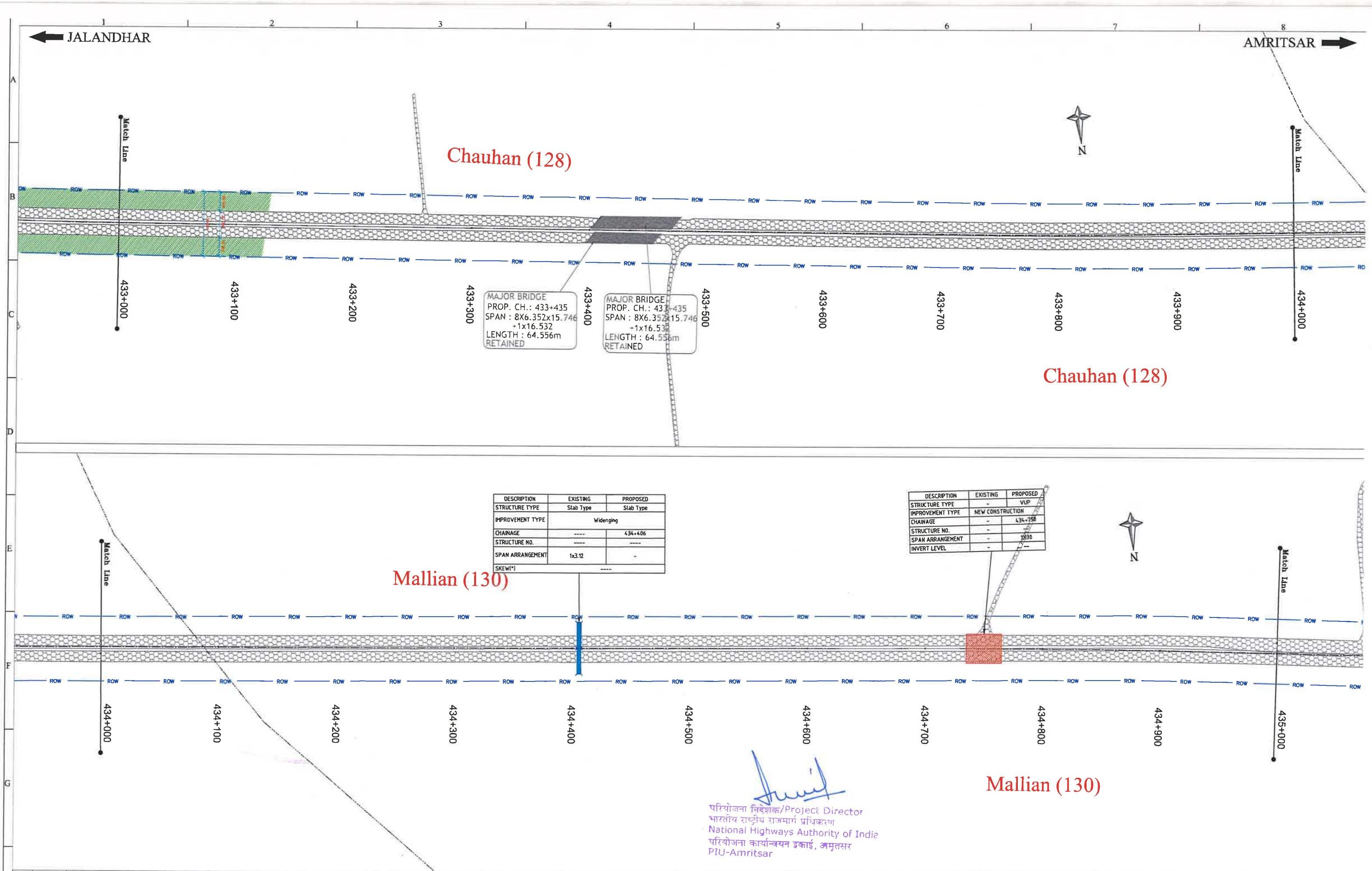
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Designed by:	K.P.								
Checked by:	J.V.								
Approved By:	P.R.								
Scale:	A2 1:2000 A3 1:2500	Date:	April - 2021	DRG NO.:	FIPL-00001427/HW/SPUR/SP-09	REV.:	0	SHEET:	

PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.

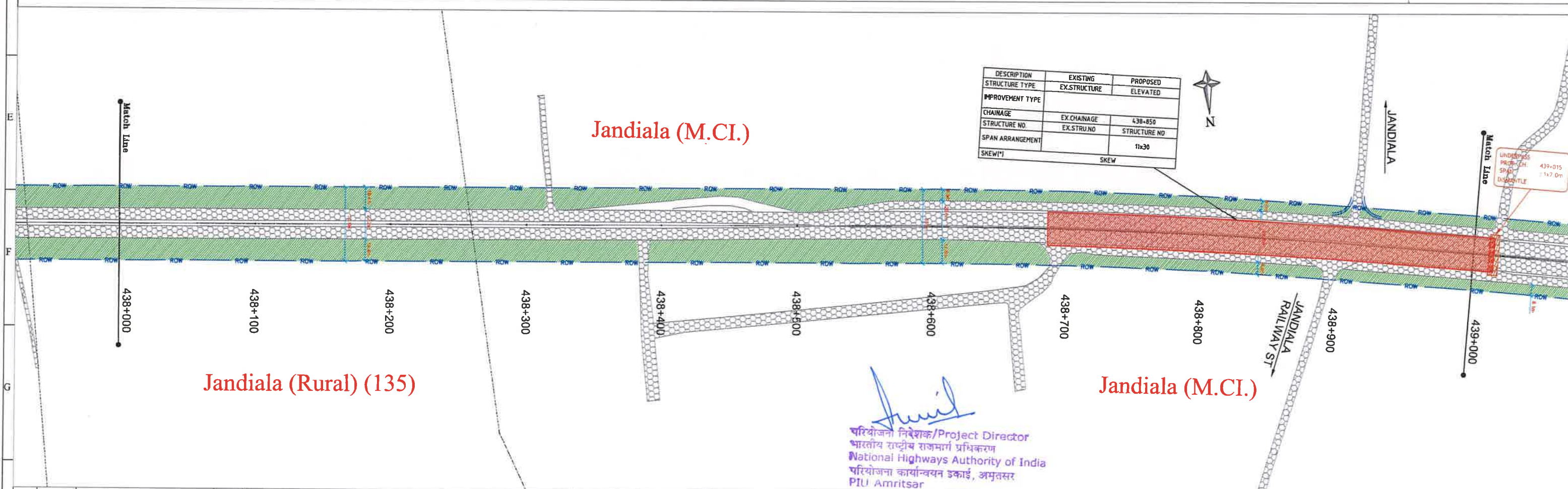
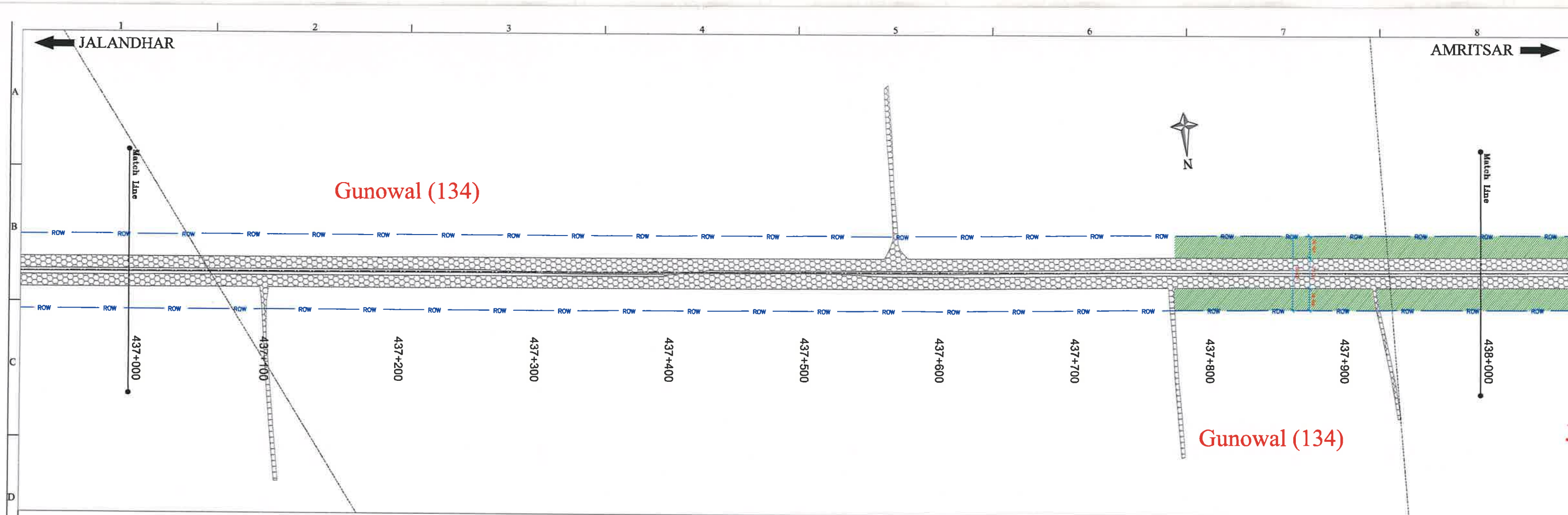
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Km. 427+000 to 429+000






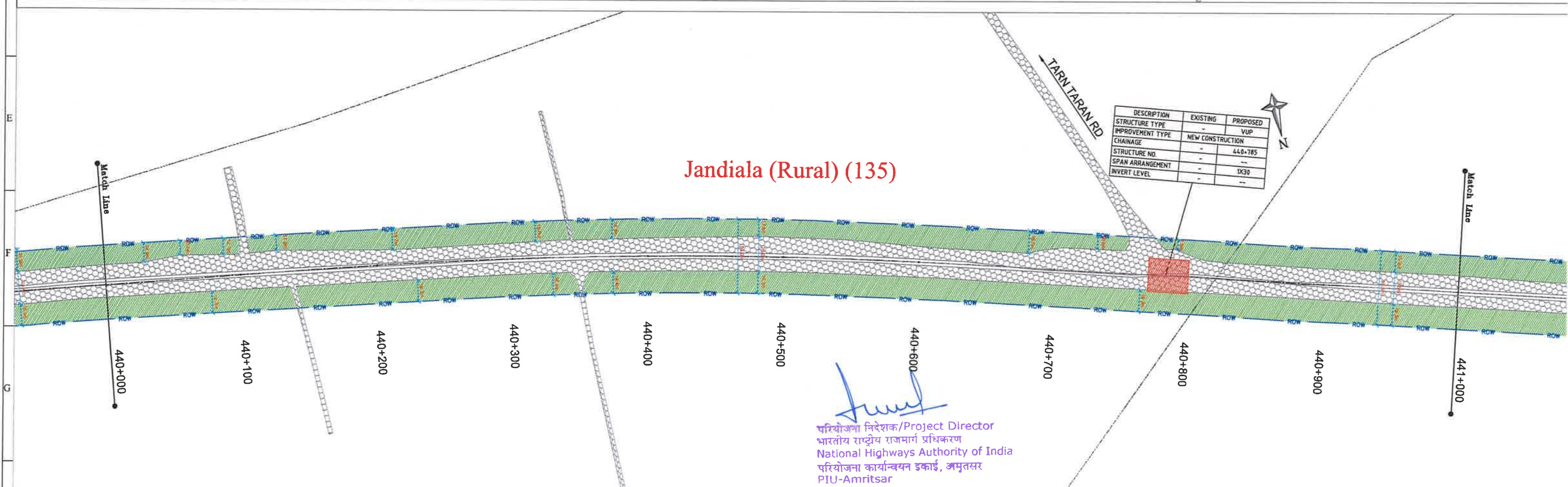
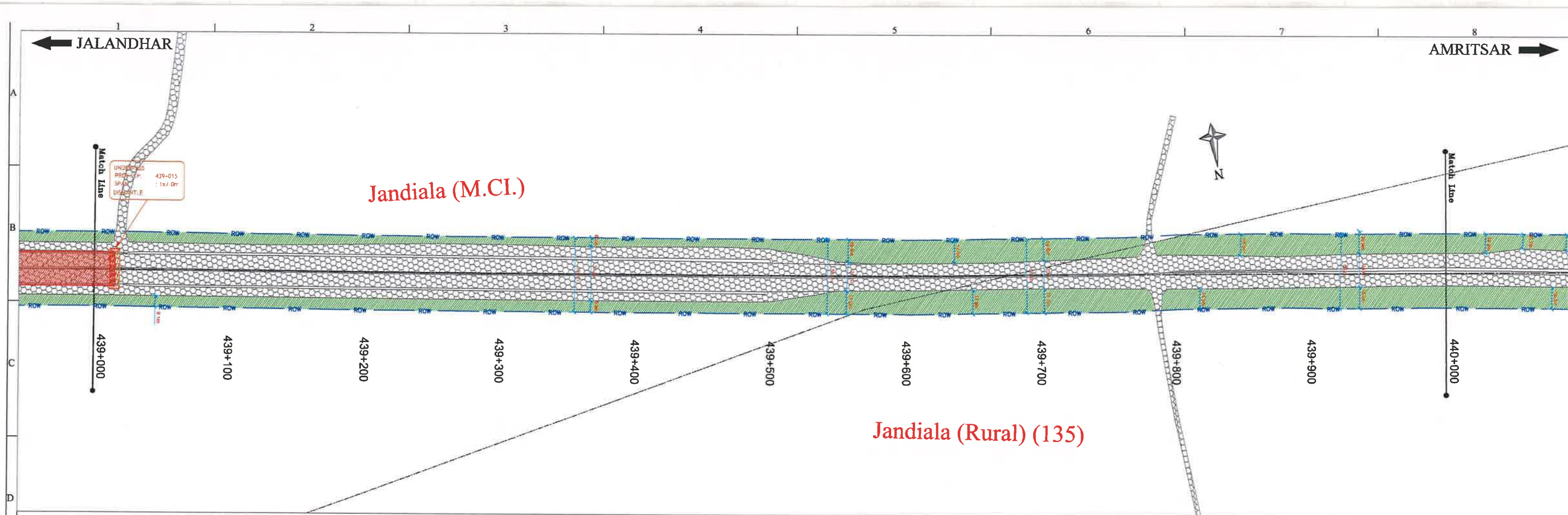
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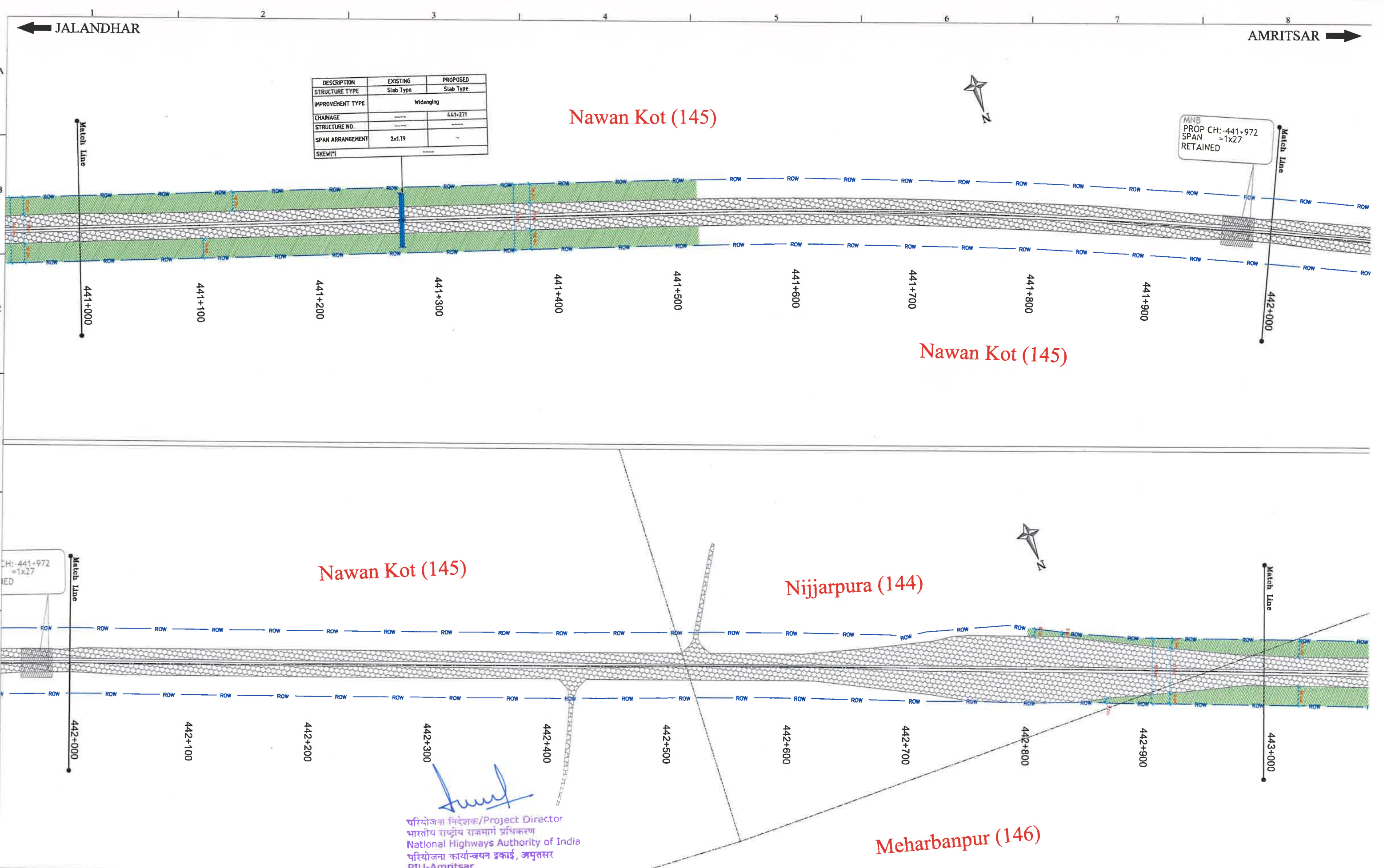
CLIENT:				LEGEND				CONSULTANT:				Drawn by: D. J.				STATUS: DETAIL PROJECT REPORT			
NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				Existing Road Formation Width Protected Forest Strip Existing ROW Existing Center line Proposed Center line Village Boundary				FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				Designed by: K. P.				PROJECT: Construction of 6-lane elevated structure in Rayya at Ch. 419-690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.			
												Checked by: J. V.				TITLE: STRIP PLAN Km. 433+000 to 435+000			
												Approved By: P. R.				DRG NO.: FIPL-00001427/HW/SPUR/SP-12			
REV. DATE DESCRIPTION OF REVISIONS BY				The information contained herein is Confidential & Property of Feedback Infra Private Limited and not for Publication. The Information is Issued on the Understanding that no part thereof shall be Copied or Communicated to a Third Party without Authorization in Writing from Feedback Infra Private Limited				Scale: A2 1:2000 A3 1:2800				Date: April. - 2021				REV. 0 SHEET: 0			



				CLIENT:		LEGEND		CONSULTANT:		Drawn by:	D.J		STATUS:			
					NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10,Dwarka, New Delhi - 110075		Existing Road Formation Width	 Feedback Infra Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002		Designed by:	K.P.		PROJECT:			



CLIENT:				CONSULTANT:				STATUS:			
 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075				 FEEDBACK INFRA Private Limited 15th Floor, Tower 9B DLF Cyber City Phase-III, Gurgaon 122 002				DETAIL PROJECT REPORT			
LEGEND				Drawn by: D. J.				PROJECT:			
Existing Road Formation Width				Designed by: K. P.				TITLE:			
Protected Forest Strip				Checked by: J. V.				STRIP PLAN			
Existing ROW				Approved By: P. R.				Km. 439+000 to 441+000			
Existing Center line				Scale:				DRG NO.:			
Proposed Center line				A2 1:2000				FIPL-00001427/HW/SPUR/SP-15			
Village Boundary				A3 1:2800				REV. SHEET:			
GPS Point				Date:				0			
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REV	DATE	DESCRIPTION OF REVISIONS	BY

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road, Transport & Highways)
Government of India
G - 5 & 6, Sector - 10, Dwarka, New Delhi - 110075

LEGEND

- Existing Road Formation Width
- Protected Forest Strip
- Existing ROW
- Existing Center line
- Proposed Center line
- Village Boundary

GPS Point

CONSULTANT:

FEEDBACK INFRA
Making Infrastructure + appear

Feedback Infra Private Limited
15th Floor, Tower 9B
DLF Cyber City Phase-III,
Gurgaon 122 002

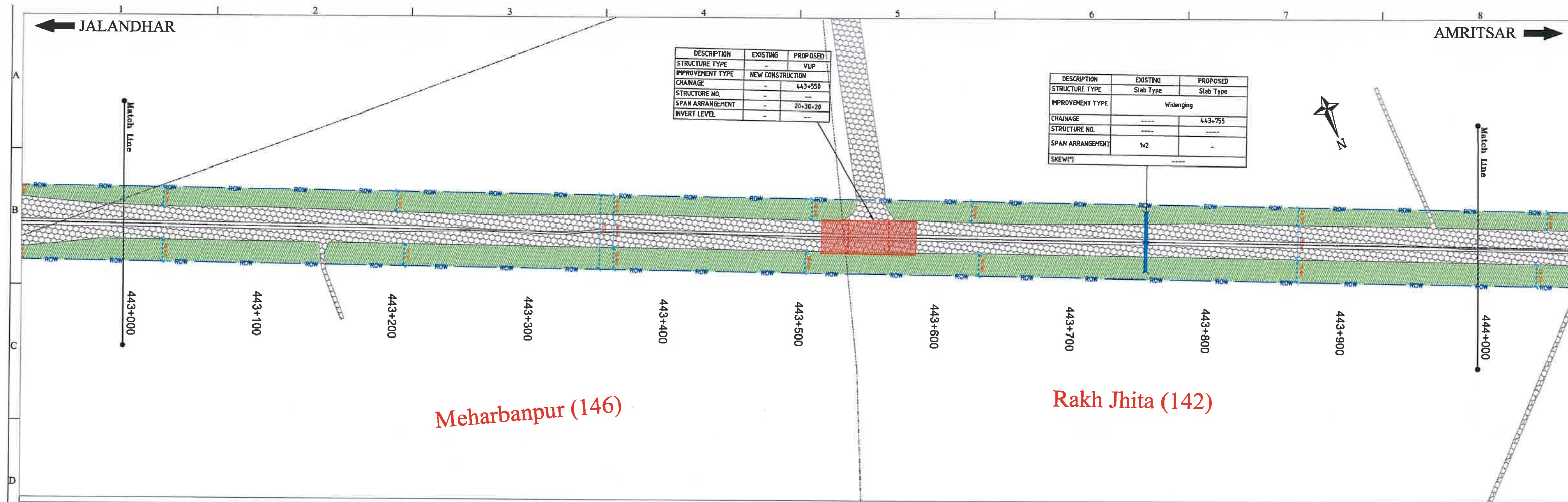
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Drawn by:	D.J.	STATUS: DETAIL PROJECT REPORT			
Designed by:	K.P.				
Checked by:	J.V.				
Approved By:	P.R.				
Scale: A2 1:2000 A3 1:2800		DATE: April - 2021	DRG NO.: FIPL-00001427/HW/SPUR/SP-16	REV. 0	SHEET:

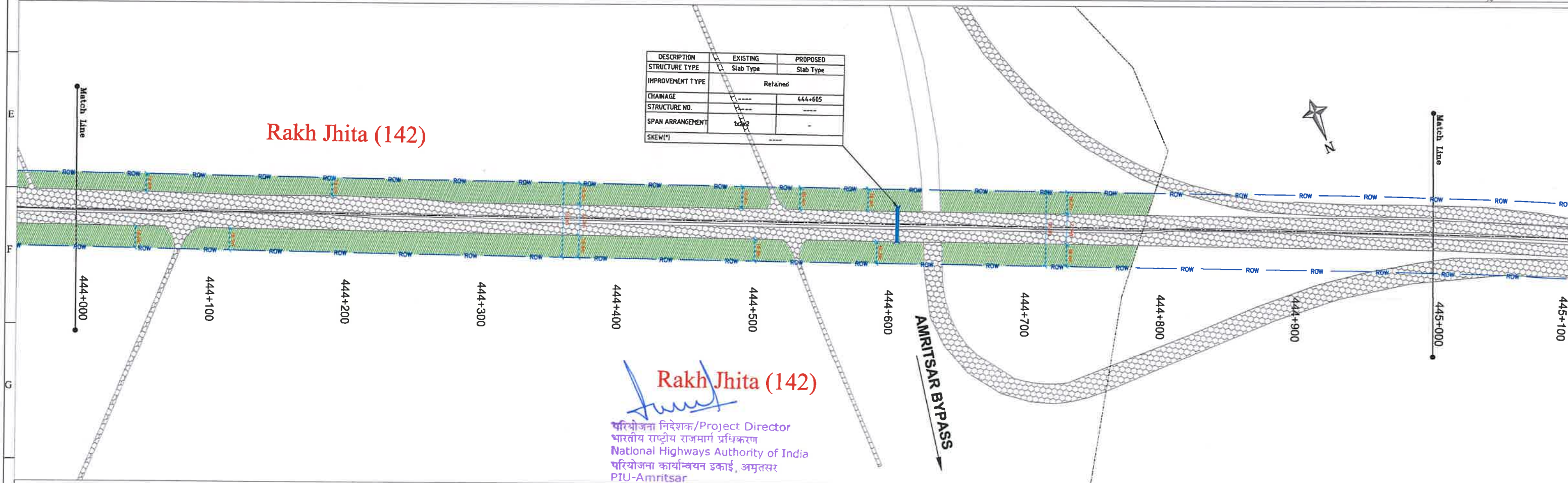
TITLE: **STRIP PLAN**
Km. 441+000 to 443+000

DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	-	VUP
IMPROVEMENT TYPE	NEW CONSTRUCTION	
CHAINAGE	-	443+550
STRUCTURE NO.	-	-
SPAN ARRANGEMENT	-	20+30+20
INVERT LEVEL	-	-

DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	Slab Type	Slab Type
IMPROVEMENT TYPE	Widening	
CHAINAGE	443+755	443+755
STRUCTURE NO.		
SPAN ARRANGEMENT	1x2	
SKEW(°)		



DESCRIPTION	EXISTING	PROPOSED
STRUCTURE TYPE	Slab Type	Slab Type
IMPROVEMENT TYPE	Retained	
CHAINAGE	----	444+605
STRUCTURE NO.	----	-----
SPAN ARRANGEMENT	1x12	-----
SKIEW(°)	-----	-----



परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्रधिकरण
National Highways Authority of India
परियोजना कार्यान्वयन इकाई, अमृतसर
PIU-Amritsar

CONSULTANT:	
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Feedback Infra
Private Limited
15th Floor, Tower 9B
DLF Cyber City Phase
Gurgaon 122 002

Drawn by:	D.J	STATUS: PROJECT: TITLE:	DETAIL PROJECT REPORT Construction of 6-lane elevated structure in Rayya at Ch. 419+690 of NH-1 section from Amritsar to Jalandhar under Rectification of Blackspots on Brownfield spur of Delhi-Amritsar-Katra Expressway.			
Designed by:	K.P.					
Checked by:	J.V.					
Approved By:	P.R.		STRIP PLAN Km. 443+000 to 445+000			
for or ed	Scale: A2 1:2000 A3 1:2500	Date: April. - 2021	DRG NO.:	FIPL-00001427/HW/SPUR/SP-17	REV. 0	SHEET: