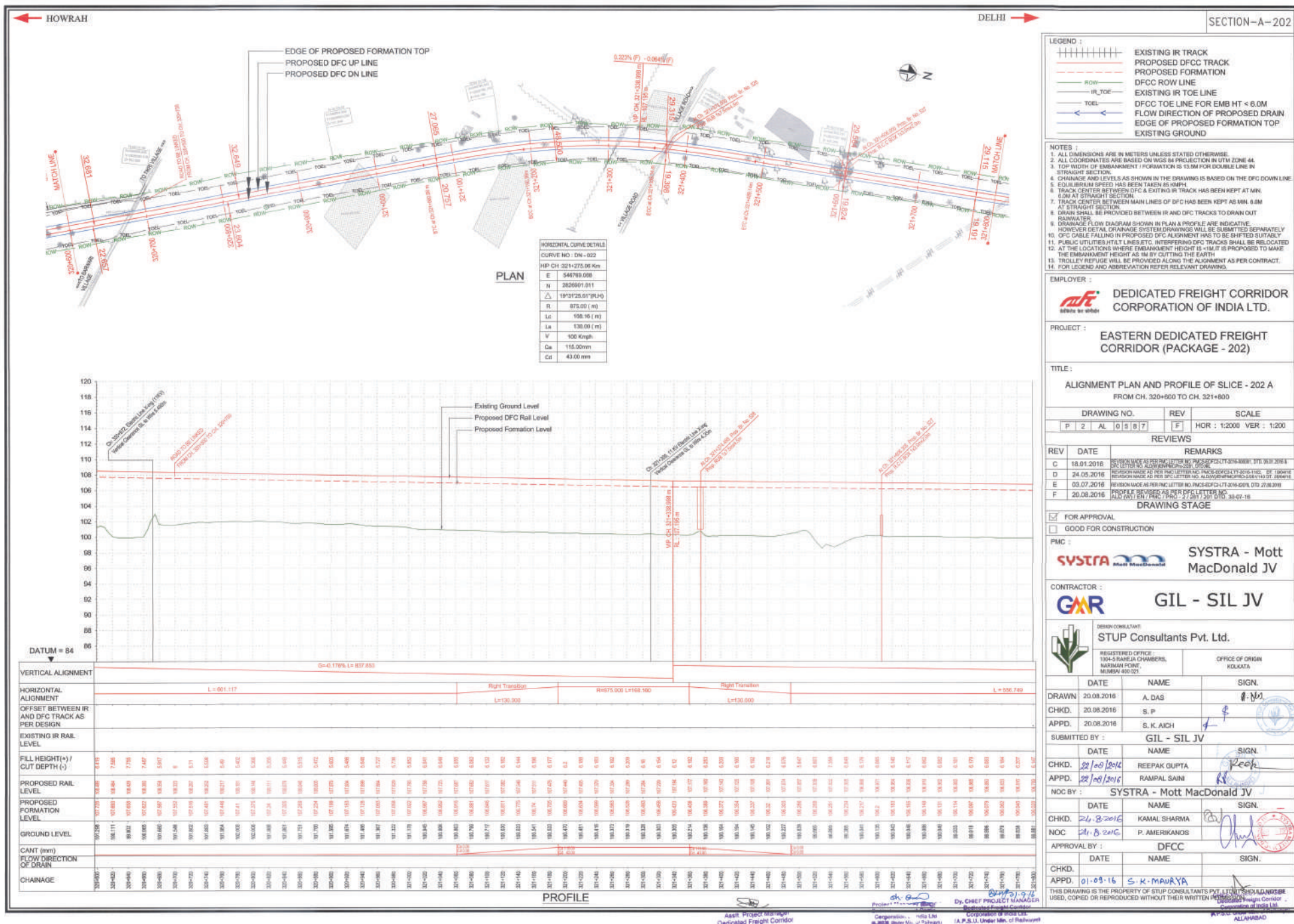
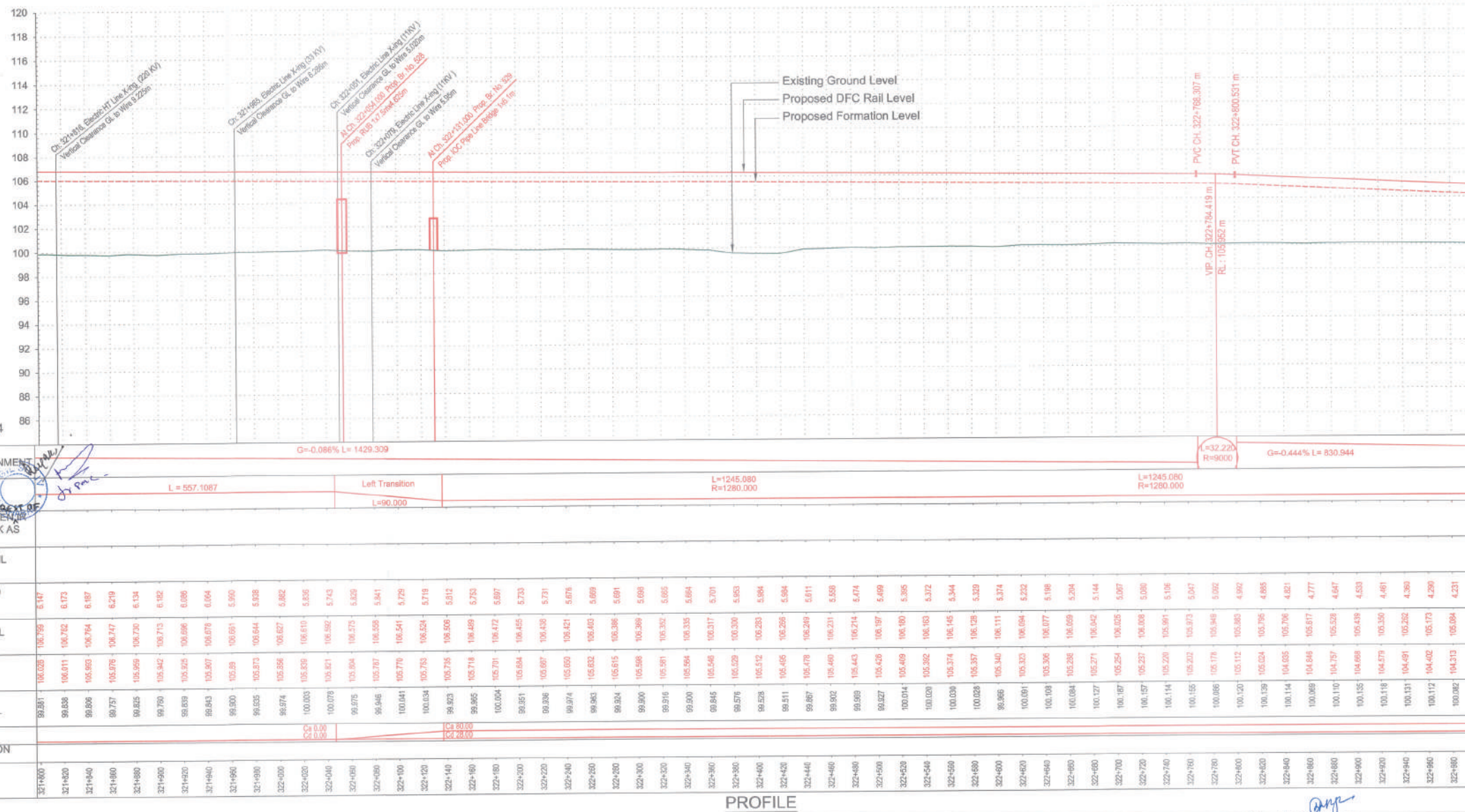
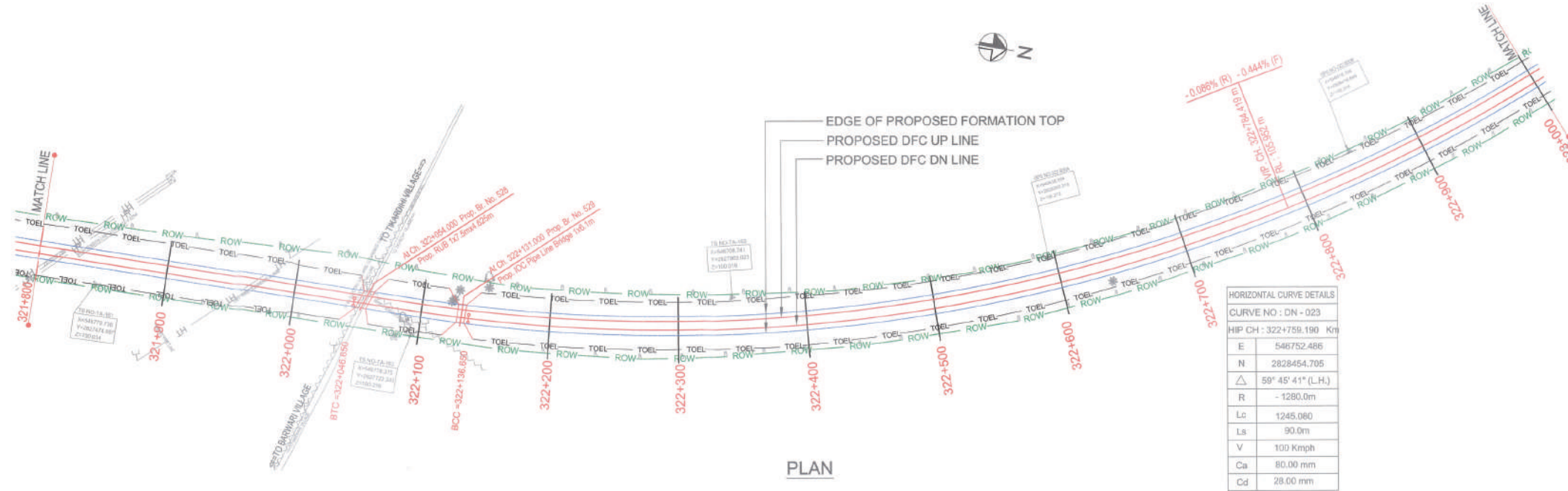
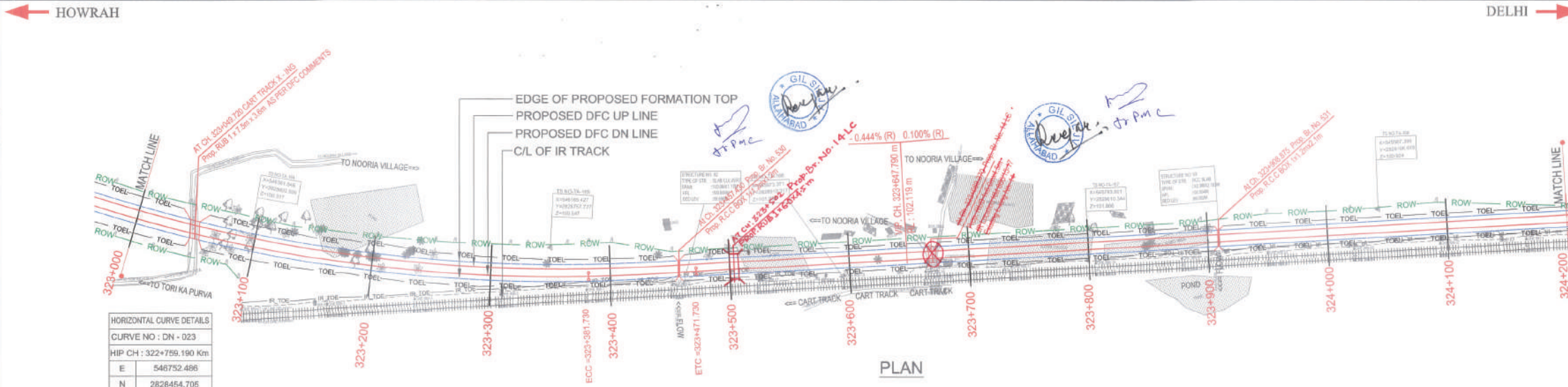




← HOWRAH

→ DELHI



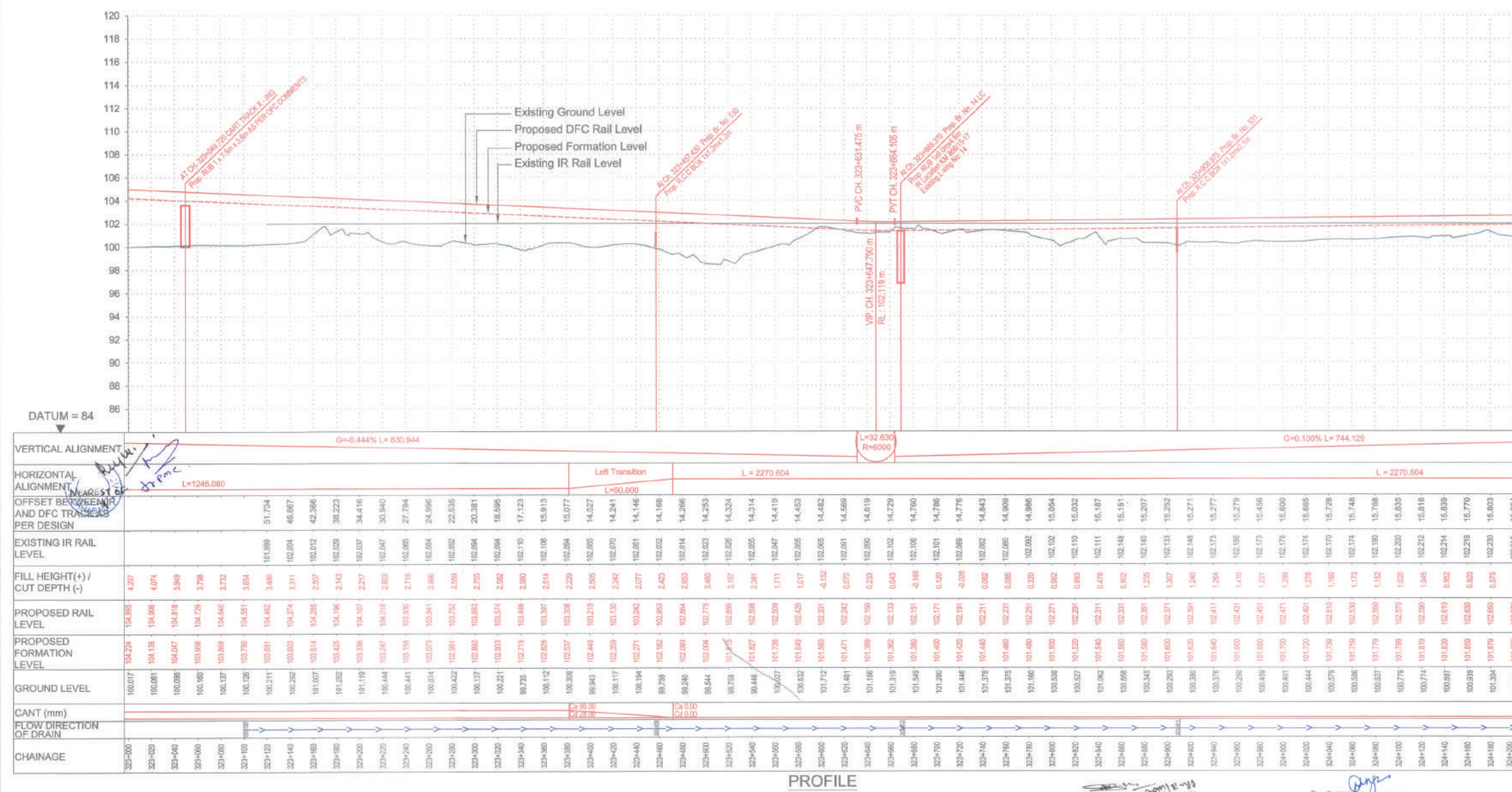


HORIZONTAL CURVE DETAILS

CURVE NO : DN - 023

HIP CH : 322+759.190 Km

E	546752.486
N	2828454.705
Δ	59° 45' 41" (L.H.)
R	1280.0m
Lc	1245.080
Ls	90.0m
V	100 Km/h
Ca	80.00 mm
Cd	28.00 mm



- LEGEND :**
- EXISTING IR TRACK
 - PROPOSED DFC TRACK
 - PROPOSED FORMATION
 - DFCC ROW LINE
 - EXISTING IR TOE LINE
 - DFCC TOE LINE FOR EMB HT < 6.0M
 - FLOW DIRECTION OF PROPOSED DRAIN
 - EDGE OF PROPOSED FORMATION TOP
 - EXISTING GROUND

- NOTES :**
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 - EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 - TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 - DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 - DFCC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PUBLIC UTILITIES, HT/LT LINES ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
 - AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 - TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

MAE DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH.323+000 TO CH. 324+200

DRAWING NO.	REV	SCALE
P 2 AL 0 5 8 9	K	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
G	24.02.2017	REVISED AS PER SITE REQUIREMENT
H	13.06.2017	REVISED AS PER PMC LETTER NO. ALD (W) JEN/PMC/Pro-2281034, DTD, 19.05.2017
J	19.06.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC/ALT/2017/03320, DTD, 17.06.2017
K	26.08.2017	REVISED AS PER VERBAL INFORMATION OF DFC THROUGH SITE SURVEY

DRAWING STAGE

☒ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

NO OBJECTION CERTIFICATE (NOC)

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV

DESIGN CONSULTANT:

STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN : KOLKATA

DATE	NAME	SIGN.
20.08.2016	ABHIJIT DAS	
20.08.2016	SUDDHASIL PURKAIT	
20.08.2016	ANIL KUMAR MITTAL	

SUBMITTED BY :

GIL - SIL JV

CHKD. 05/03/17 REEPAK GUPTA

APPD. 05/03/17 R.S.P. SINGH

NOC BY : SYSTRA - Mott MacDonald JV

DATE	NAME	SIGN.
12.09.17	P. AMERIKANOS	

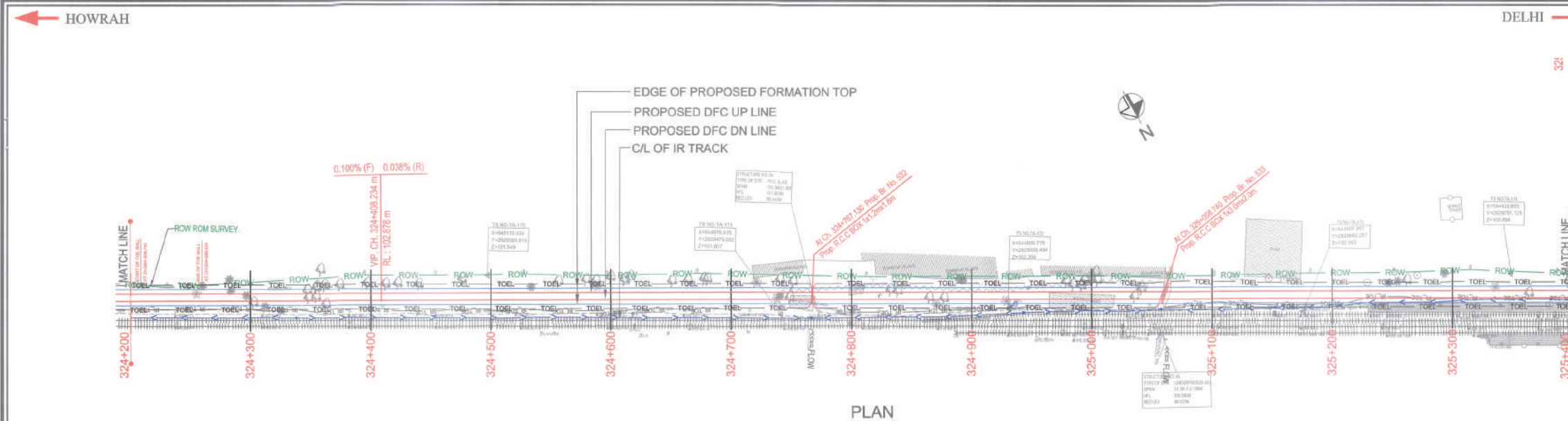
APPROVAL BY :

DFCC

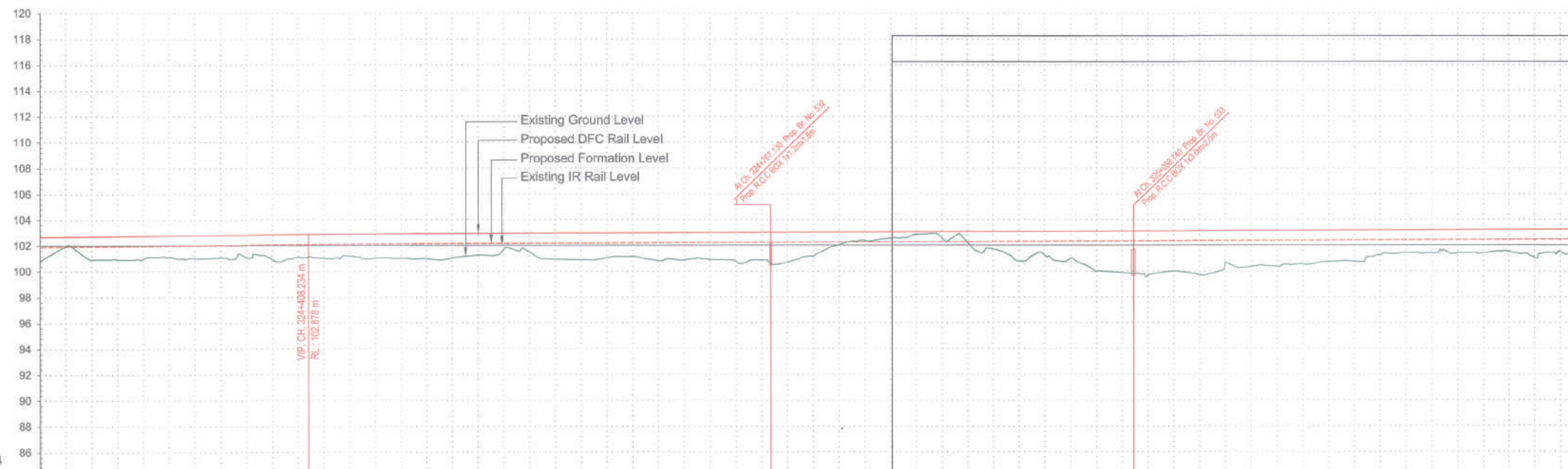
CHKD. 22-09-17 S.K. MAURYA

APPD. 22-09-17 S.K. MAURYA

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PLAN



DATUM = 84

VERTICAL ALIGNMENT	G=0.100% L= 744.129	G=0.038% L= 1608.844
HORIZONTAL ALIGNMENT	L = 2270.804	L = 2270.804
OFFSET BETWEEN IR AND DFC TRACK AS PER DESIGN	15.500	15.500
EXISTING IR RAIL LEVEL	102.217	102.217
FILL HEIGHT(+)/ CUT DEPTH (-)	1.020	1.020
PROPOSED RAIL LEVEL	103.237	103.237
PROPOSED FORMATION LEVEL	103.237	103.237
GROUND LEVEL	102.217	102.217
CANT (mm)	102.217	102.217
FLOW DIRECTION OF DRAIN	102.217	102.217
CHAINAGE	324+200	325+400

PROFILE

LEGEND :	
EXISTING IR TRACK	
PROPOSED DFCC TRACK	
PROPOSED FORMATION	
DFCC ROW LINE	
EXISTING IR TOE LINE	
DFCC TOE LINE FOR EMB HT < 6.0M	
FLOW DIRECTION OF PROPOSED DRAIN	
EDGE OF PROPOSED FORMATION TOP	
EXISTING GROUND	

- NOTES :
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF EMBANKMENT / FORMATION IS 15.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 - EQUILIBRIUM SPEED HAS BEEN TAKEN AS 85 KM/H.
 - TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 - DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 - OF C CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PUBLIC UTILITIES, HT/LT LINES ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
 - AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 - TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
 FROM CH.324+200 TO CH.325+400

DRAWING NO.	REV	SCALE
P 2 AL 0590	K	HOR : 1:2000 VER : 1:200

REV	DATE	REMARKS
G	24.02.2017	REVISED AS PER SITE REQUIREMENT
H	13.06.2017	REVISED AS PER PMC LETTER NO. ALD (W)/EN/PMC/Pro-2281/044, DTD. 19.05.2017
J	19.06.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LT/2017/03320, DTD. 17.06.2017
K	26.08.2017	REVISED AS PER SITE CONDITION

FOR APPROVAL
 GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV

DESIGN CONSULTANT:

STUP Consultants Pvt. Ltd.
 REGISTERED OFFICE : 1004-S RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
 OFFICE OF ORIGIN : KOLKATA

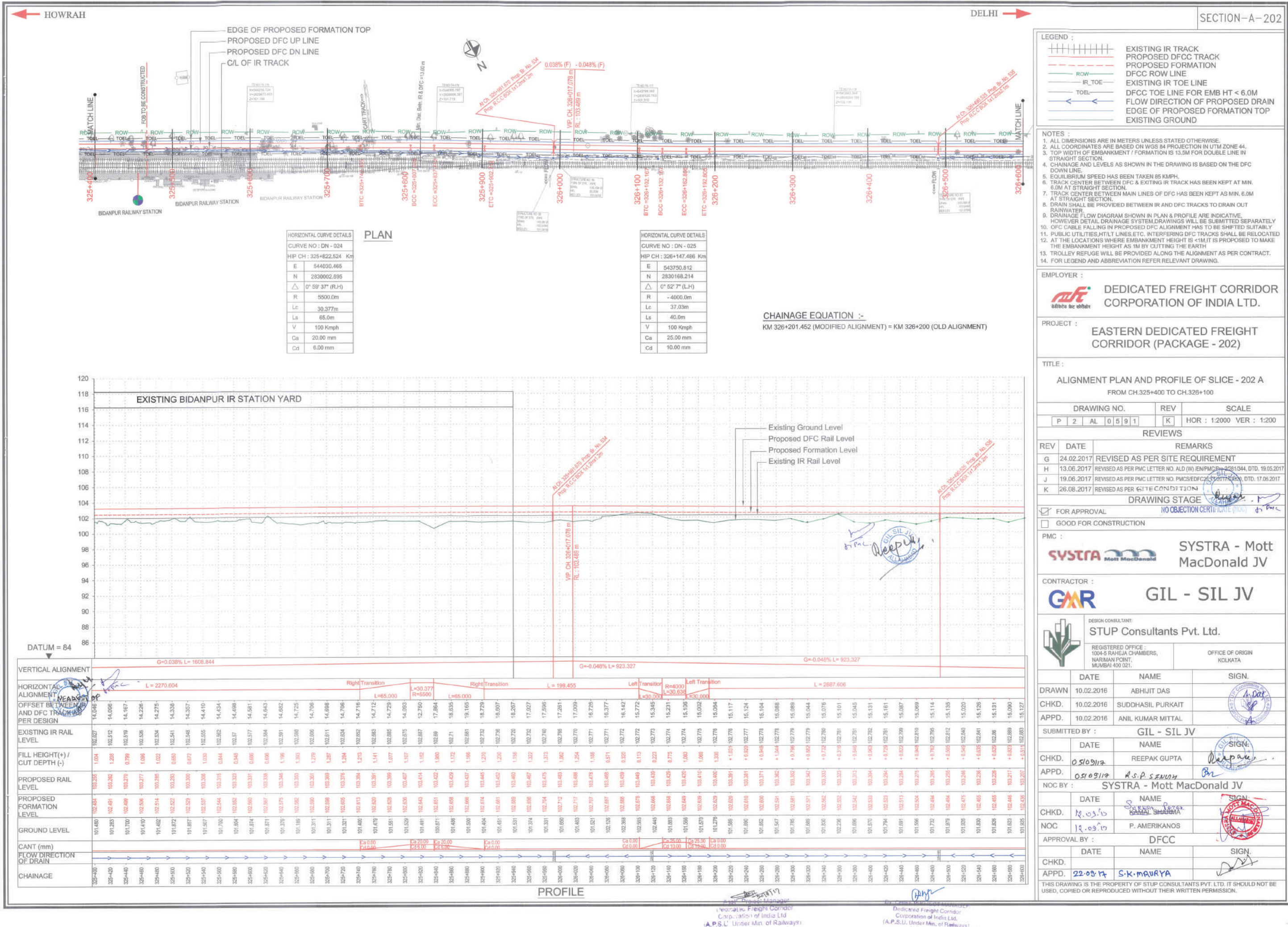
DATE	NAME	SIGN.
24.03.2017	ABHIJIT DAS	
24.03.2017	SUDDHASIL PURKAIT	
24.03.2017	ANIL KUMAR MITTAL	

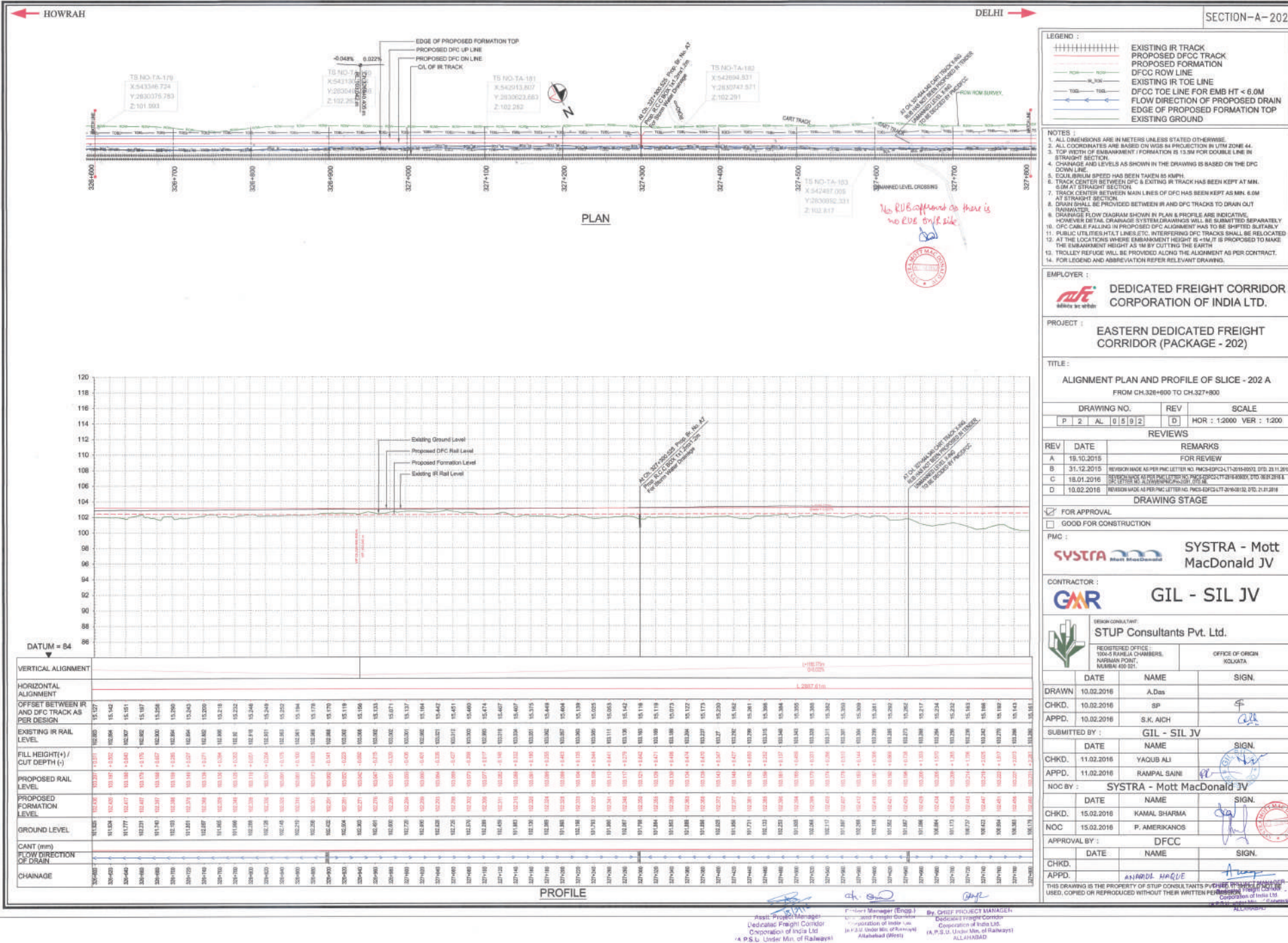
SUBMITTED BY : **GIL - SIL JV**
 DATE : 05.03.17
 NAME : REEPAK GUPTA
 APPD. : R.S.P. SINGH

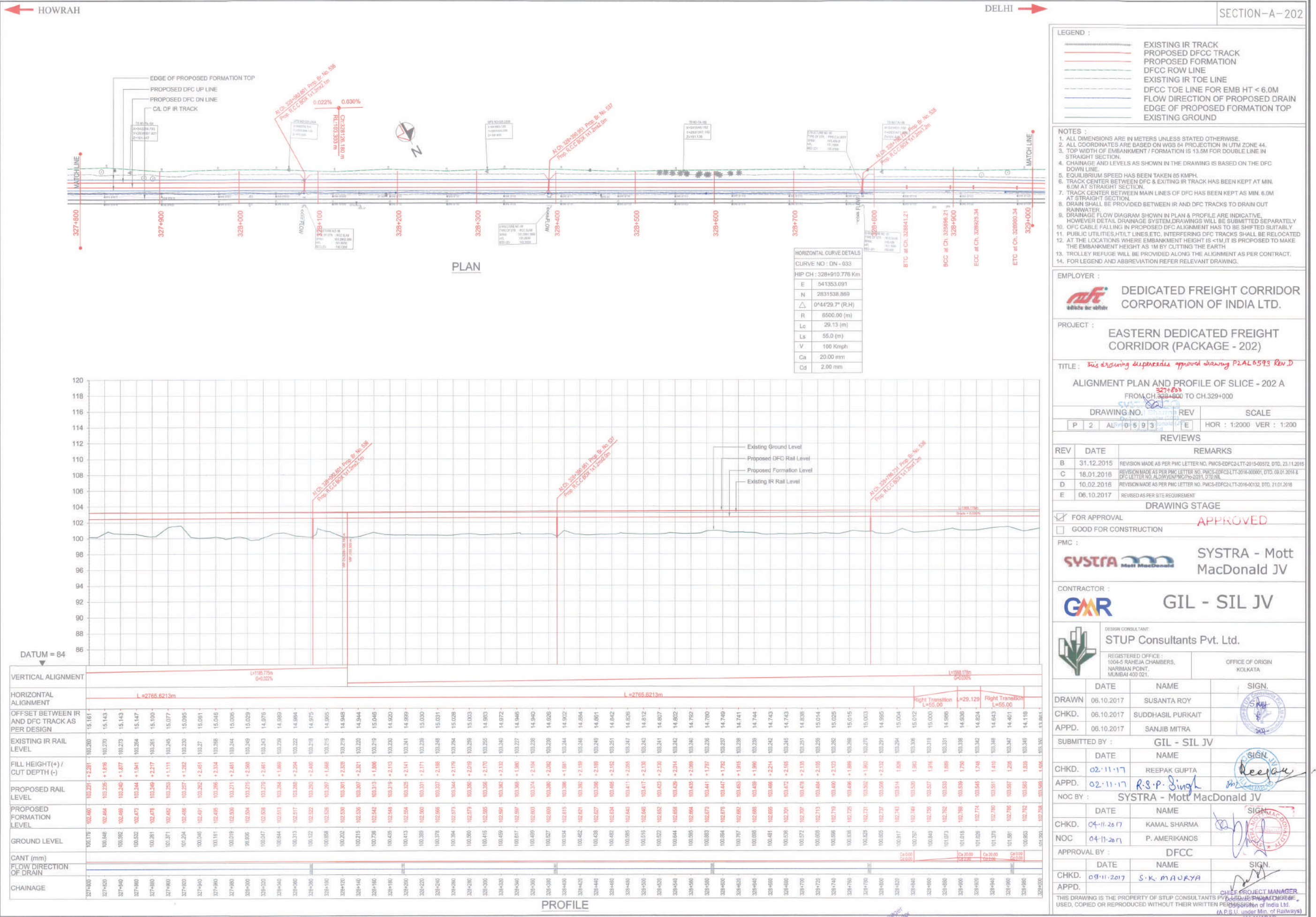
NOC BY : **SYSTRA - Mott MacDonald JV**
 DATE : 12.03.17
 NAME : P. AMERIKANOS
 CHKD. : S.K. MAURYA

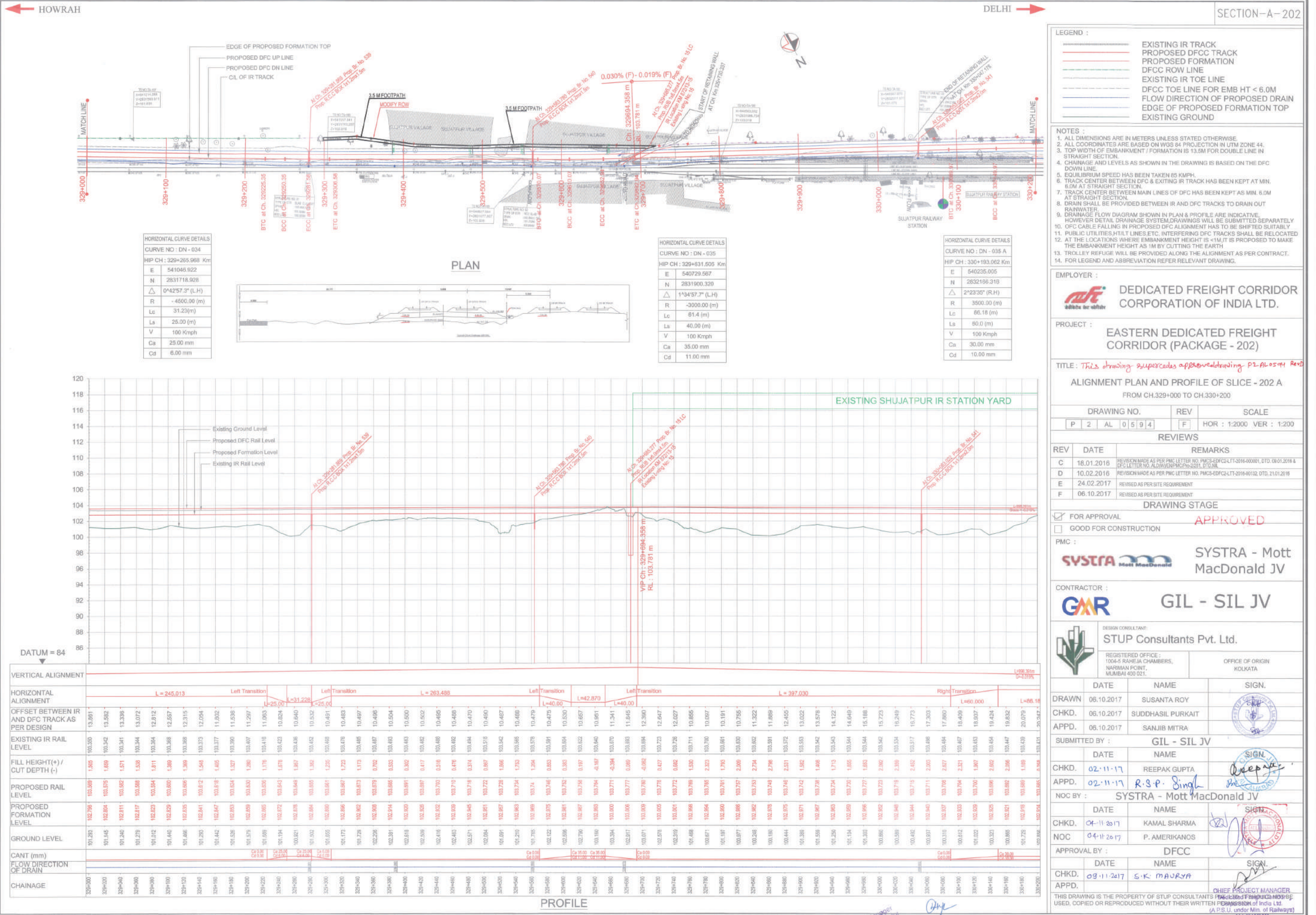
APPROVAL BY : **DFCC**
 DATE : 22.03.17
 NAME : S.K. MAURYA

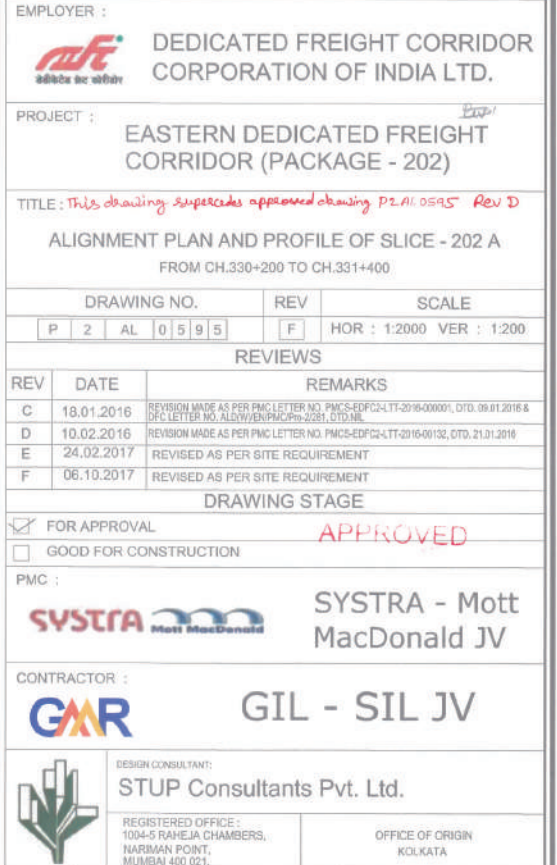
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	DATE	NAME	SIGN.
DRAWN	06.10.2017	SUSANTA ROY	
CHKD.	06.10.2017	SUDDHASIL PURKAIT	
APPD.	06.10.2017	SANJIB MITRA	
SUBMITTED BY :		GIL - SIL JV	
	DATE	NAME	SIGN.
CHKD.	02.11.17	REEPAK GUPTA	
APPD.	02.11.17	R.S.P. Singh	
NOC BY :		SYSTRA - Mott MacDonald JV	
	DATE	NAME	SIGN.
CHKD.	04.11.2017	KAMAL SHARMA	
NOC	04.11.2017	P. AMERIKANOS	
APPROVAL BY :		DFCC	
	DATE	NAME	SIGN.
CHKD.	09.11.2017	S.K. MAURYA	
APPD.			CHIEF PROJECT MANAGER



 Project Manager
 Dedicated Freight Corridor
 Corporation of India Ltd.
 (Under Min. of Railways)
 Allahabad (West)

By, CHIEF PROJECT MANAGER
 Dedicated Freight Corridor
 Corporation of India Ltd.
 (A.P.S.U. Under Min. of Railways)
 ALLAHABAD

NOTES :

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/PH.
6. TRACK CENTER BETWEEN DFC & EXITING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE.
10. TRAVELER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
11. OFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
12. PUBLIC UTILITIES, HT/LT LINES ETC. INTERFERING DFC TRACKS SHALL BE RELOCATE.
13. AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS <1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
14. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
15. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

PROJECT :	EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)
-----------	---

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH.331+400 TO CH.332+600

DRAWING NO.						REV	SCALE
P	2	AL	0	5	9	G	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
E	08.02.2017	TOE LINE REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LT/2017/00159, DTD. 11.01.2017
F	12.05.2017	REVISED AS PER SITE REQUIREMENT
G	02.08.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LT/2017/03559, DTD. 30.06.2017

DRAWING STAGE

☒ FOR APPROVAL

☐ GOOD FOR CONSTRUCTION

NO OBJECTION CERTIFICATE (NOC)

PMC :  SYSTRA - Mott MacDonald JV

CONTRACTOR :  GIL - SIL JV



DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

	REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.	OFFICE OF ORIGIN KOLKATA
	(Signature and Stamp of the Registrar)	

	DATE	NAME	SIGN.
DRAWN	02.08.2017	ABHIJIT DAS	
CHKD.	02.08.2017	SUDDHASIL PURKAIT	
APPD.	02.08.2017	ANIL KUMAR MITTAL	

SUBMITTED BY : GII - STI IV

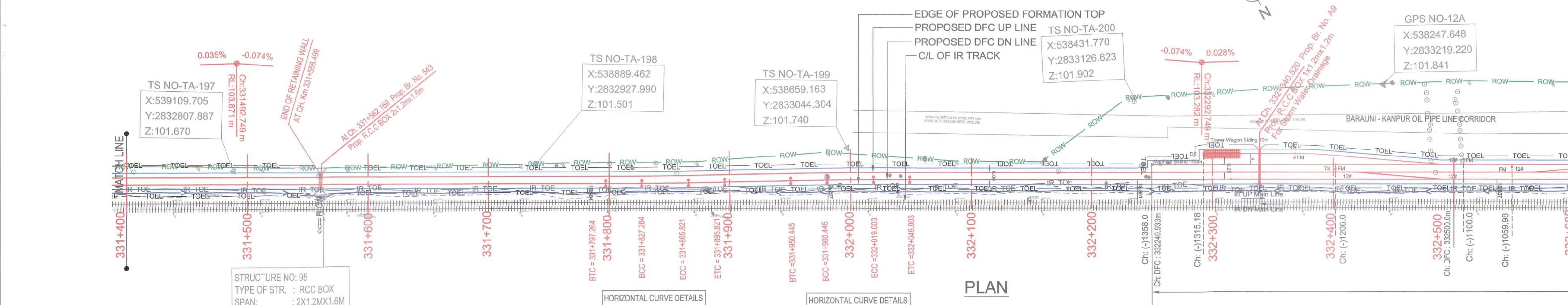
	DATE	NAME	SIGN.
CHKD.	05/09/17	REEPAK GUPTA	
APPD.	05/09/17	R.S.P Singh	
NOC BY : SYSTRA - Mott MacDonald JV			

	DATE	NAME	SIGN
CHKD.	12.05.17	<u>SURESH PETER</u> <u>KAMAL SHARMA</u>	
NOC	12.05.17	P. AMERIKANOS	

APPROVAL BY : _____ DECC

	DATE	NAME	SIGN.
CHKD.			
APPD.	22-08-17	S.K. MAURYA	

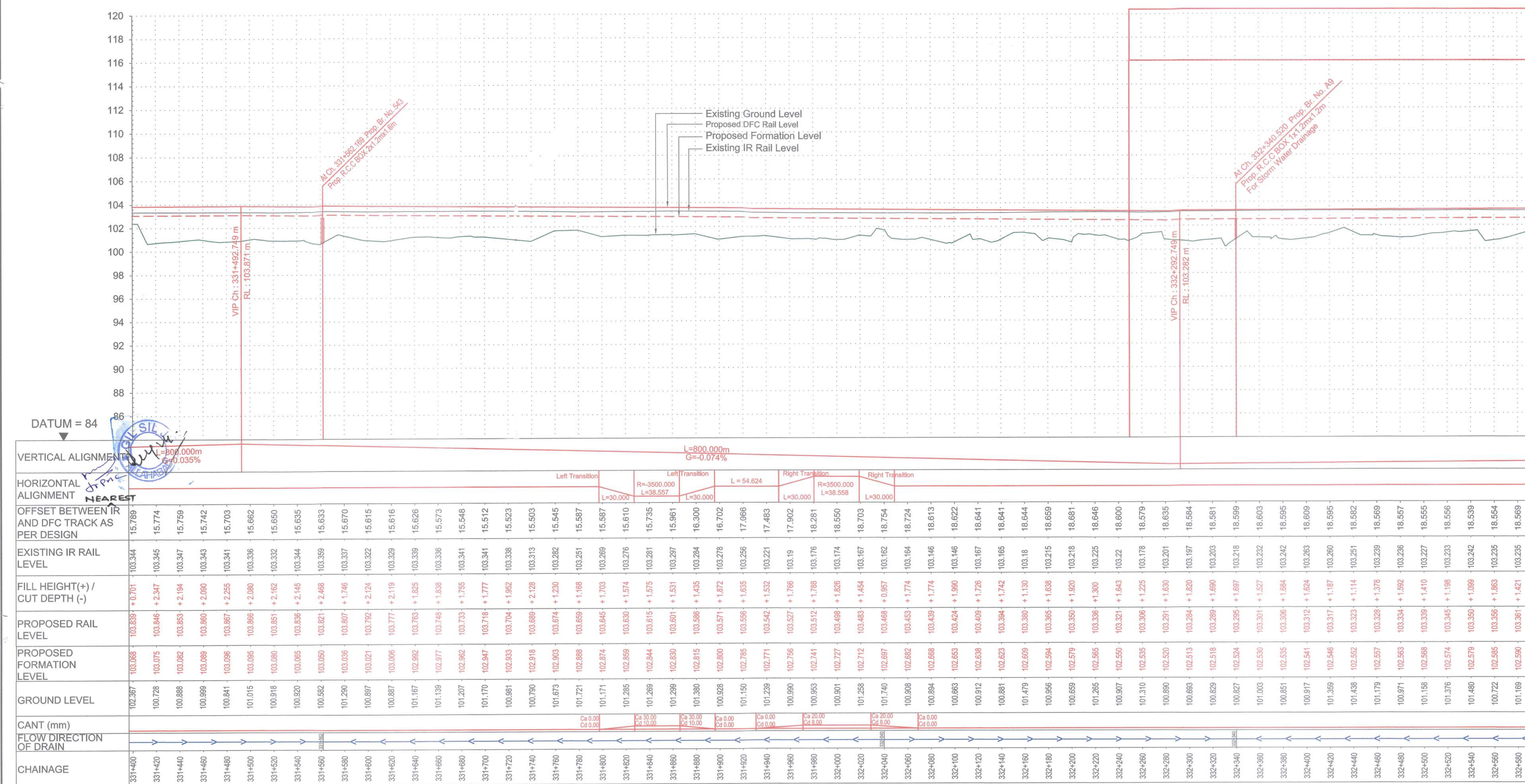
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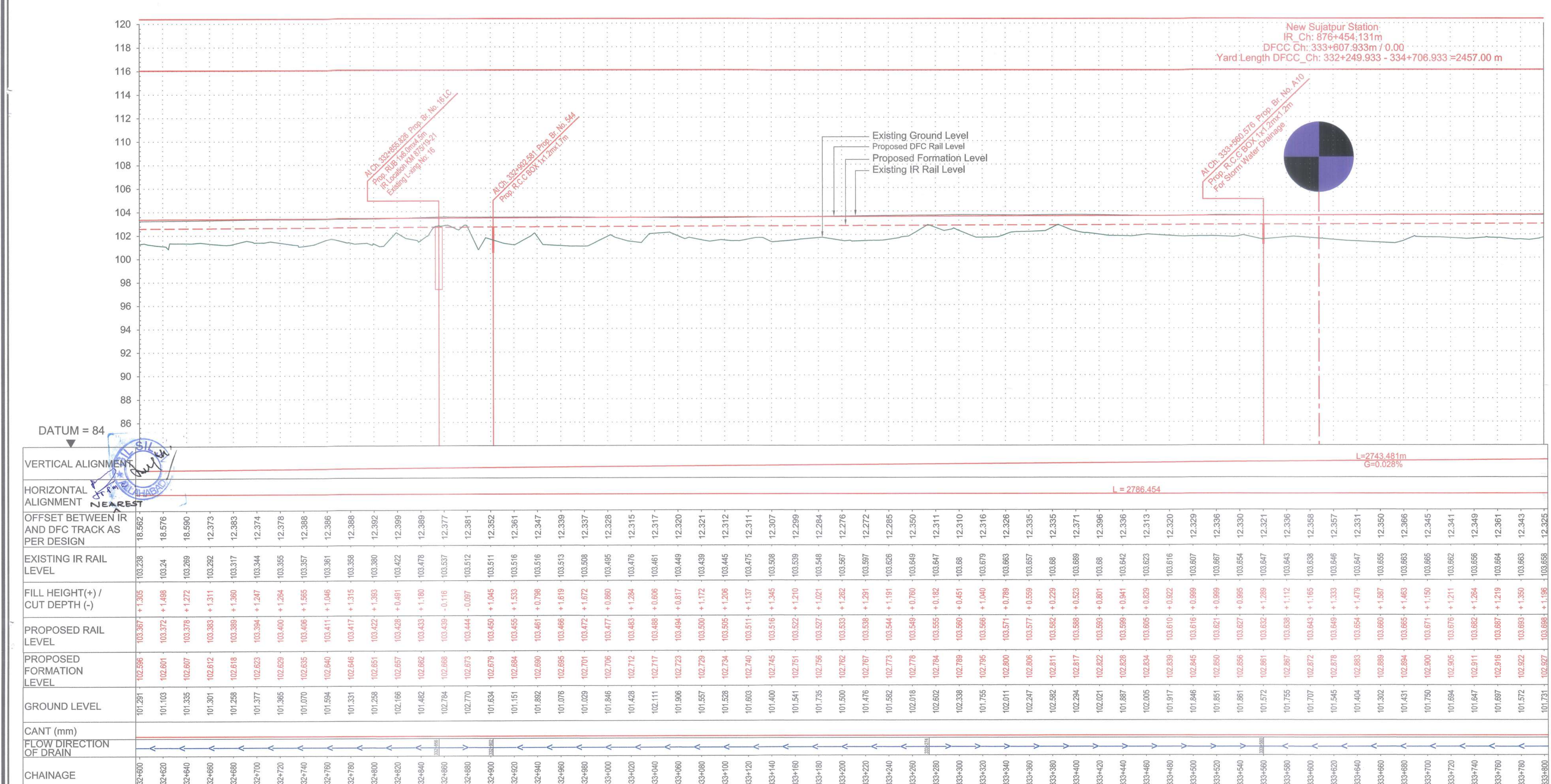
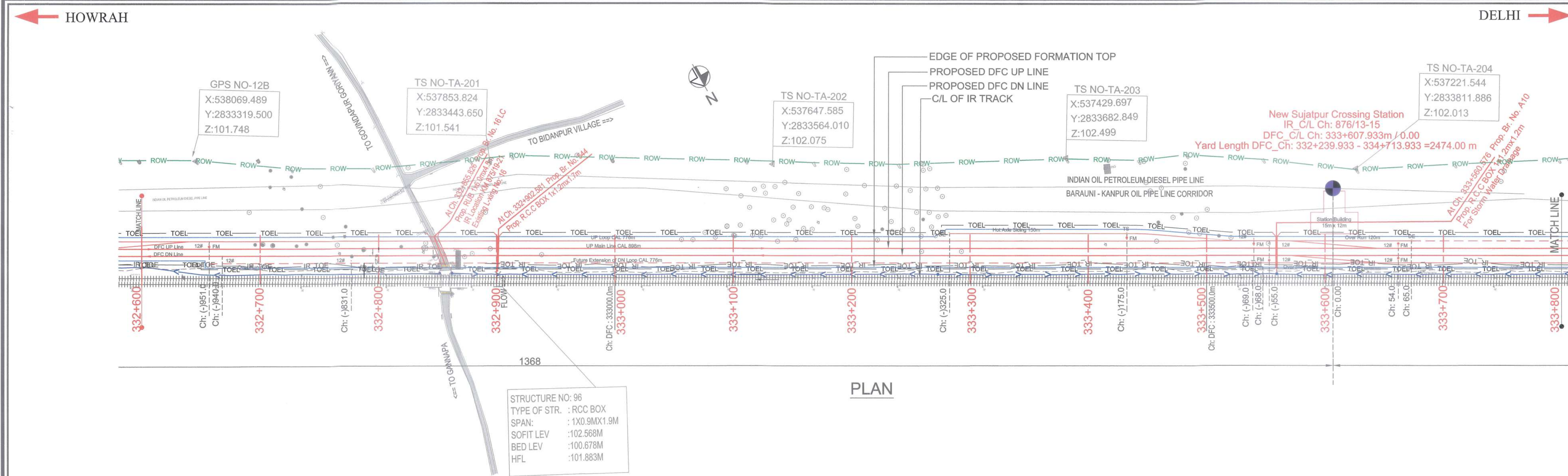
PLAN

HORIZONTAL CURVE DETAILS	
CURVE NO : DN - 037	
HIP CH : 331+846.543 Km	
E	538804.416027
N	2832995.046365
Δ	1° 7' 20.3" (L.H)
R	(-) 3500.00 (m)
Lc	38.56 (m)
LS	30.0 (m)
V	100 Kmph
Ca	30.00 mm
Cd	10.00 mm

HORIZONTAL CURVE DETAILS	
CURVE NO : DN - 038	
HIP CH : 331+999.724 Km	
E	538670.018
N	2833068.546
Δ	1° 7' 20.3" (R.H)
R	3500.00 (m)
Lc	38.56 (m)
Ls	30.0 (m)
V	100 Kmph
Ca	30.00 mm
Cd	10.00 mm



PROFILE



SECTION-A-202

LEGEND :

- EXISTING IR TRACK
- PROPOSED DFC TRACK
- PROPOSED FORMATION
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE FOR EMB HT < 6.0M
- FLOW DIRECTION OF PROPOSED DRAIN
- EDGE OF PROPOSED FORMATION TOP
- EXISTING GROUND

NOTES :

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
- OPC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
- AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
- TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH.332+600 TO CH.333+800

DRAWING NO.	REV	SCALE
P 2 AL 05 9 7	G	HOR : 1:1000 VER : 1:100

REVIEWS

REV	DATE	REMARKS
E	08.02.2017	TOE LINE REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LT/2017/00159, DTD. 11.01.2017
F	12.05.2017	REVISED AS PER SITE REQUIREMENT
G	02.08.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LT/2017/03559, DTD. 30.06.2017

DRAWING STAGE

☒ FOR APPROVAL **NO OBJECTION CERTIFICATE (NOC)**

☐ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV

DESIGN CONSULTANT:

STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
02.08.2017	ABHIJIT DAS	
02.08.2017	SUDDHASIL PURKAIT	
02.08.2017	ANIL KUMAR MITTAL	

SUBMITTED BY : **GIL - SIL JV**

DATE	NAME	SIGN.
05.09.17	REEPAK GUPTA	
05.09.17	R.S.P. Singh	

NOC BY : **SYSTRA - Mott MacDonald JV**

DATE	NAME	SIGN.
12.09.17	P. AMERIKANOS	

APPROVAL BY : **DFCC**

DATE	NAME	SIGN.
22.09.17	S.K. MAURYA	

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NOTES :

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN DFC & EXITING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAILED DRAINAGE SYSTEM, DRAWINGS WILL BE SUBMITTED SEPARATELY
10. OFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY
11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATE
12. AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS <1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH
13. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
14. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :  DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

PROJECT :	EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)
-----------	---

TITLE :	ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A FROM CH.333+800 TO CH.335+000
---------	--

DRAWING NO.						REV	SCALE
P	2	AL	0	5	9	8	H HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
E	08.02.2017	TOE LINE REVISED AS PER PMC LETTER NO. PMCS/EDFC/2LTT/2017/00159, DTD. 11.01.2017
F	12.05.2017	REVISED AS PER SITE REQUIREMENT
G	09.06.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC/2LTT/2017/02966, DTD. 02.06.2017
H	02.08.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC/2LTT/2017/03559, DTD. 30.06.2017

DRAWING STAGE

☒ FOR APPROVAL

☐ GOOD FOR CONSTRUCTION

PMC :  SYSTRA - Mott MacDonald JV

CONTRACTOR :  GIL - SIL JV



DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

	REGISTERED OFFICE :	OFFICE OF ORIGIN
	1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 031	KOLKATA

	DATE	NAME	SIGN.
DRAWN	02.08.2017	ABHIJIT DAS	
CHKD.	02.08.2017	SUDDHASIL PURKAIT	
APPD.	02.08.2017	ANIL KUMAR MITTAL	

SUBMITTED BY :	GIL - SIL JV
----------------	--------------

	DATE	NAME	SIGN.
CHKD.	05/09/17	REEPAK GUPTA	
APPD.	05/09/17	R.S.P Singh	
NOC BY : SYSTRA - Mott MacDonald JV			

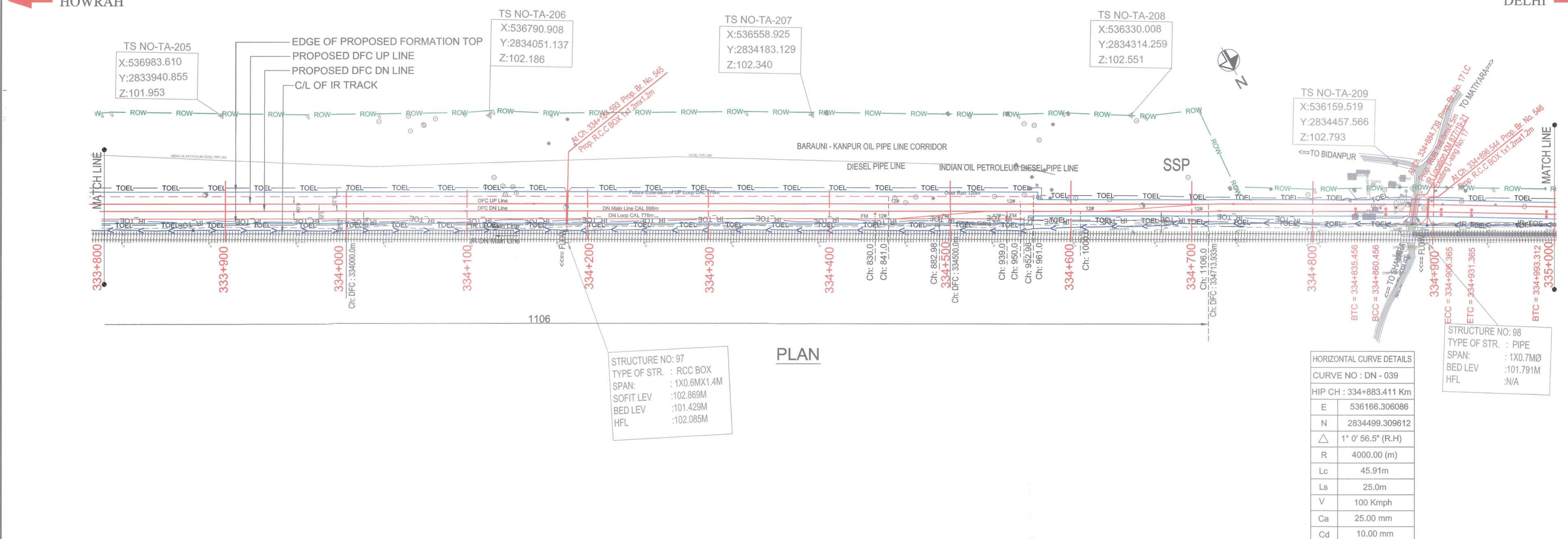
NOC BY : SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN
CHKD.	12.09.17	<u>SURESH PETER</u> <u>KAMAL SHARMA</u>	
NOC	12.09.17	P. AMERIKANOS	

APPROVAL BY : _____ DECO _____

	DATE	NAME	SIGN
CHKD.			
APPD.	22.03.17	S.K. MAURYA	

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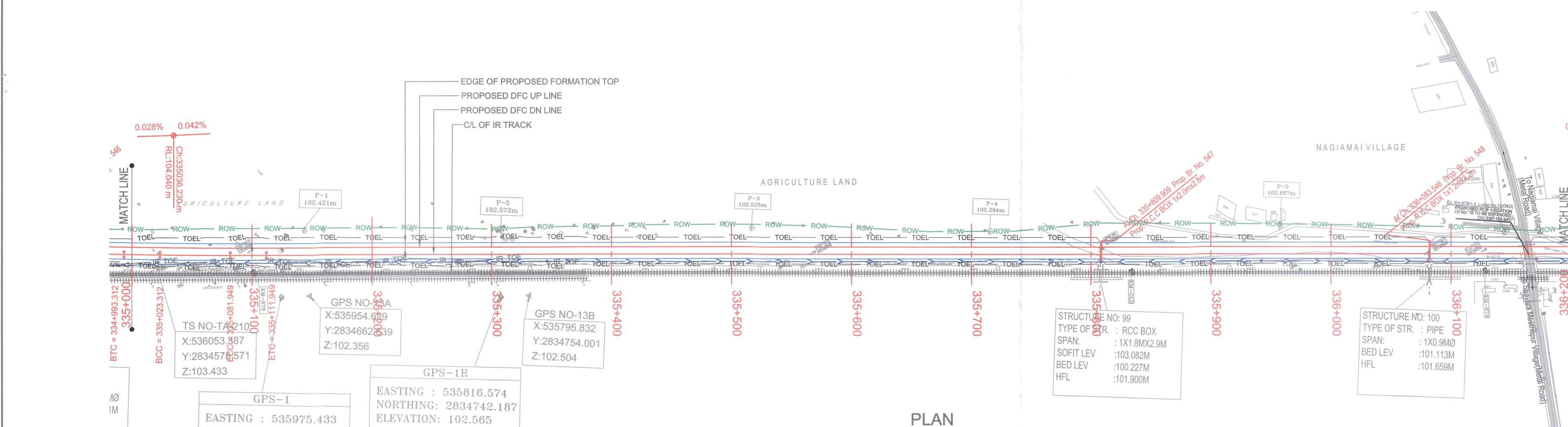
CHAINAGE	FLOW DIRECTION OF DRAIN	CANT (mm)	GROUND LEVEL	PROPOSED FORMATION LEVEL	PROPOSED RAIL LEVEL	FILL HEIGHT(+)/ CUT DEPTH (-)	EXISTING IR RAIL LEVEL	OFFSET BETWEEN IR AND DFC TRACK AS PER DESIGN	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT
333+800	DRAINAGE	0.00	101.731	102.927	103.686	+1.196	103.658	12.325	NEAREST	
333+820		0.00	101.891	102.933	103.704	+1.042	103.652	12.333		
333+840		0.00	101.886	102.899	103.710	+0.952	103.666	12.329		
333+860		0.00	101.830	102.944	103.715	+1.114	103.665	12.332		
333+880		0.00	101.650	102.950	103.721	+1.300	103.656	12.336		
333+900		0.00	101.743	102.955	103.726	+1.212	103.638	12.331		
333+920		0.00	101.535	102.961	103.732	+1.456	103.649	12.337		
333+940		0.00	101.761	102.966	103.737	+1.205	103.669	12.332		
333+960		0.00	101.881	102.972	103.743	+1.231	103.682	12.302		
333+980		0.00	101.427	102.977	103.748	+1.550	103.690	12.295		
334+000	DRAINAGE	0.00	101.538	102.983	103.754	+1.445	103.711	12.285	NEAREST	
334+020		0.00	101.583	102.988	103.759	+1.395	103.700	12.269		
334+040		0.00	101.525	102.994	103.765	+1.469	103.697	12.265		
334+060		0.00	101.535	102.999	103.770	+1.464	103.701	12.275		
334+080		0.00	101.708	103.005	103.776	+1.299	103.703	12.290		
334+100		0.00	101.339	103.010	103.781	+1.671	103.700	12.305		
334+120		0.00	101.220	103.016	103.787	+1.796	103.713	12.278		
334+140		0.00	101.788	103.021	103.792	+1.233	103.716	12.257		
334+160		0.00	101.483	103.027	103.798	+1.544	103.722	12.252		
334+180		0.00	101.691	103.032	103.803	+1.341	103.729	12.277		
334+200	DRAINAGE	0.00	101.566	103.038	103.809	+1.472	103.741	12.340	NEAREST	
334+220		0.00	101.411	103.044	103.815	+1.632	103.753	12.359		
334+240		0.00	102.325	103.049	103.820	+0.724	103.76	12.351		
334+260		0.00	102.220	103.055	103.826	+0.825	103.756	12.353		
334+280		0.00	101.768	103.060	103.831	+1.252	103.742	12.361		
334+300		0.00	101.799	103.066	103.837	+1.267	103.725	12.356		
334+320		0.00	101.411	103.071	103.842	+1.660	103.706	12.343		
334+340		0.00	100.762	103.077	103.848	+2.315	103.716	12.288		
334+360		0.00	101.134	103.082	103.853	+1.948	103.715	12.318		
334+380		0.00	101.521	103.088	103.859	+1.567	103.717	12.353		
334+400	DRAINAGE	0.00	101.697	103.093	103.864	+1.396	103.738	12.357	NEAREST	
334+420		0.00	101.483	103.099	103.870	+1.616	103.745	12.347		
334+440		0.00	102.000	103.104	103.875	+1.104	103.748	12.334		
334+460		0.00	101.479	103.110	103.881	+1.631	103.758	12.376		
334+480		0.00	101.737	103.115	103.886	+1.378	103.775	12.346		
334+500		0.00	102.106	103.121	103.892	+1.015	103.795	12.280		
334+520		0.00	102.152	103.126	103.897	+0.974	103.810	12.280		
334+540		0.00	101.834	103.132	103.903	+1.198	103.822	12.265		
334+560		0.00	102.021	103.138	103.909	+1.116	103.832	12.242		
334+580		0.00	102.094	103.143	103.914	+1.049	103.831	18.529		
334+600	DRAINAGE	0.00	101.985	103.149	103.920	+1.163	103.828	18.543	NEAREST	
334+620		0.00	102.191	103.154	103.925	+0.963	103.823	18.516		
334+640		0.00	102.109	103.160	103.931	+1.051	103.836	18.494		
334+660		0.00	102.094	103.165	103.936	+1.071	103.831	18.497		
334+680		0.00	101.615	103.171	103.942	+1.556	103.825	18.508		
334+700		0.00	101.644	103.176	103.947	+1.532	103.825	18.494		
334+720		0.00	102.143	103.182	103.953	+1.039	103.828	18.488		
334+740		0.00	102.445	103.187	103.958	+0.742	103.83	18.503		
334+760		0.00	102.526	103.193	103.964	+0.567	103.828	18.497		
334+780		0.00	101.989	103.198	103.969	+1.299	103.825	18.492		
334+800	DRAINAGE	0.00	102.375	103.204	103.975	+0.629	103.839	18.483	NEAREST	
334+820		0.00	102.417	103.209	103.980	+0.792	103.855	18.479		
334+840		0.00	103.194	103.215	103.986	+0.021	103.875	18.483		
334+860		0.00	102.553	103.220	103.991	+0.667	103.893	18.460		
334+880		0.00	102.719	103.226	103.997	+0.517	103.911	18.393		
334+900		0.00	102.340	103.231	104.002	+0.891	103.929	17.304		
334+920		0.00	102.421	103.237	104.008	+0.816	103.946	16.954		
334+940		0.00	102.548	103.243	104.014	+0.695	103.964	16.608		
334+960		0.00	102.431	103.248	104.019	+0.817	103.962	16.249		
334+980		0.00	102.489	103.254	104.025	+0.765	103.969	15.882		

PROFILE

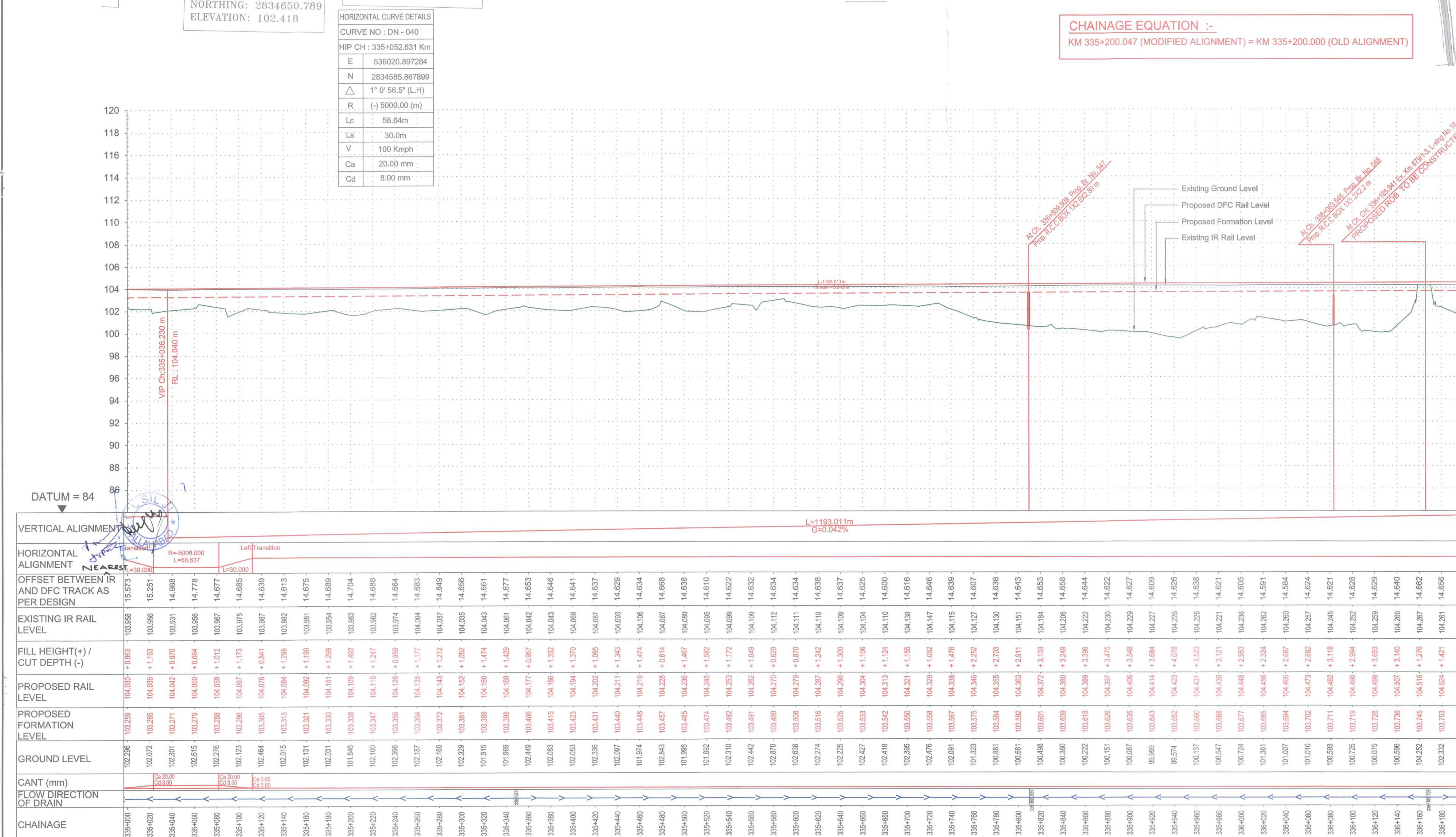
← HOWRAH

→ DELHI

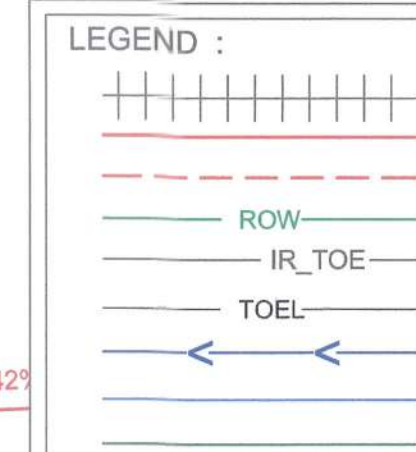
SECTION-A-202



PLAN



PROFILE



- NOTES :
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 6. TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 10. OFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 11. PUBLIC UTILITIES HT/LT LINES ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
 12. AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 13. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 14. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH.335+000 TO CH.336+200

DRAWING NO.	REV	SCALE
P 2 AL 0 5 9 9	F	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
B	21.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2015-00572, DTD. 23.11.2015
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00001, DTD. 06.01.2016 & DFC LETTER NO. ALD(W)EN/PMCPip-2281, DTD. NIL
E	8.02.2017	TOE LINE REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LTT/2017/00159, DTD. 11.01.2017
F	02.08.2017	REVISED AS PER PMC LETTER NO. PMCS/EDFC2/LTT/2017/03559, DTD. 30.06.2017

DRAWING STAGE

☒ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC :

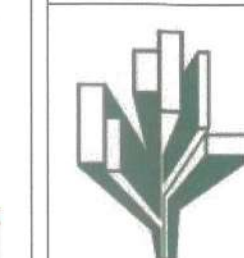


SYSTRA - Mott MacDonald JV

CONTRACTOR :

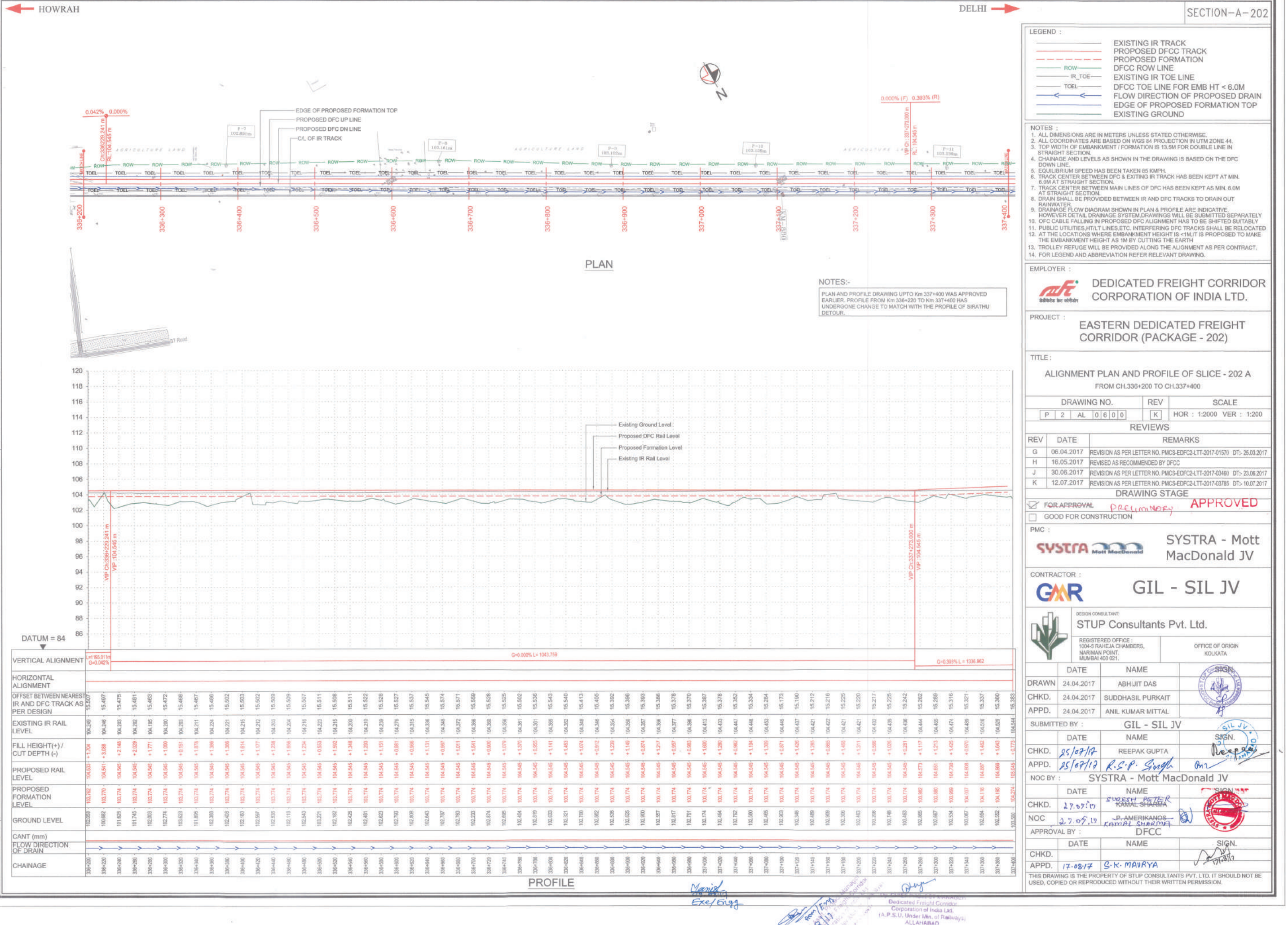


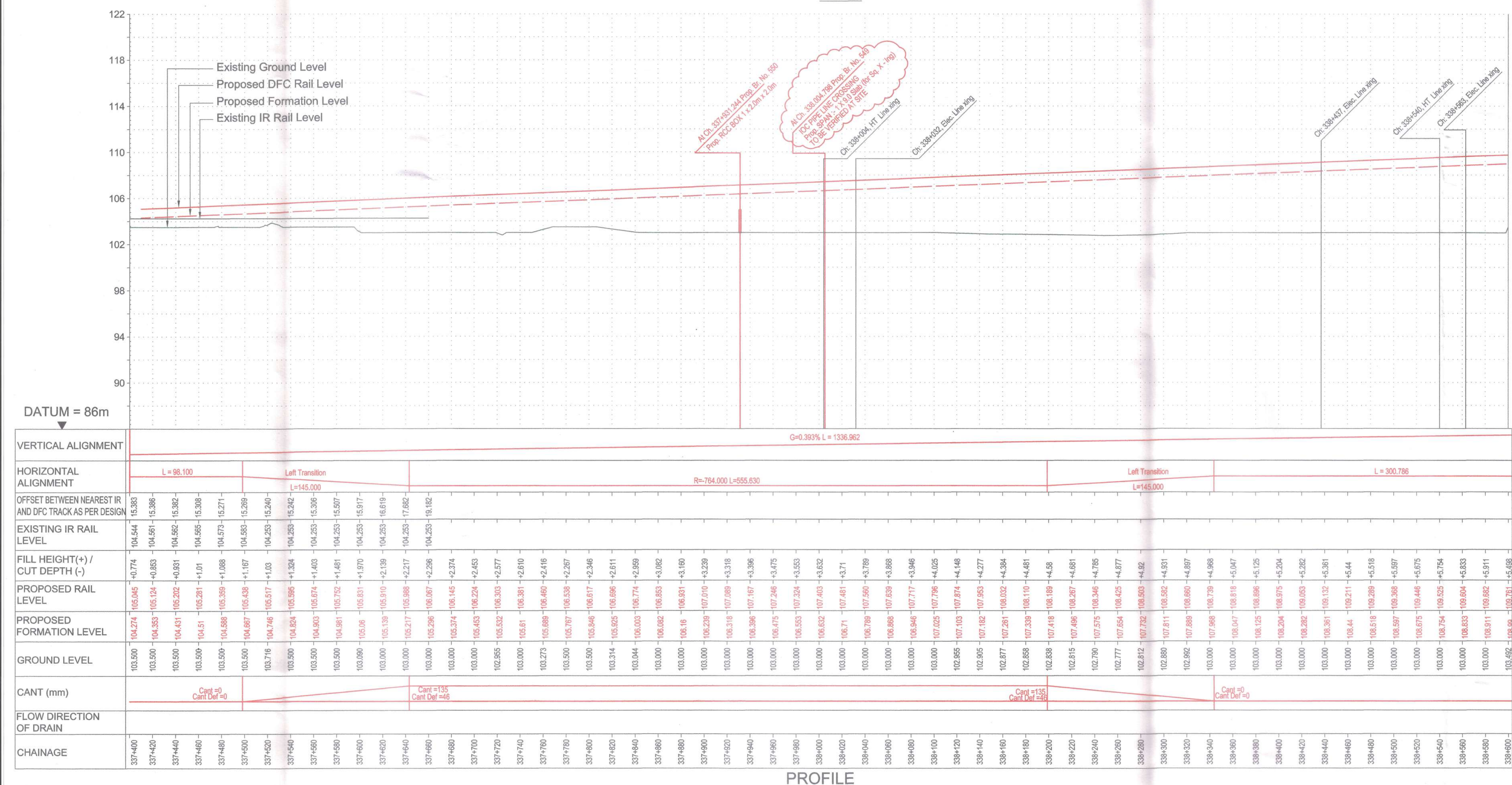
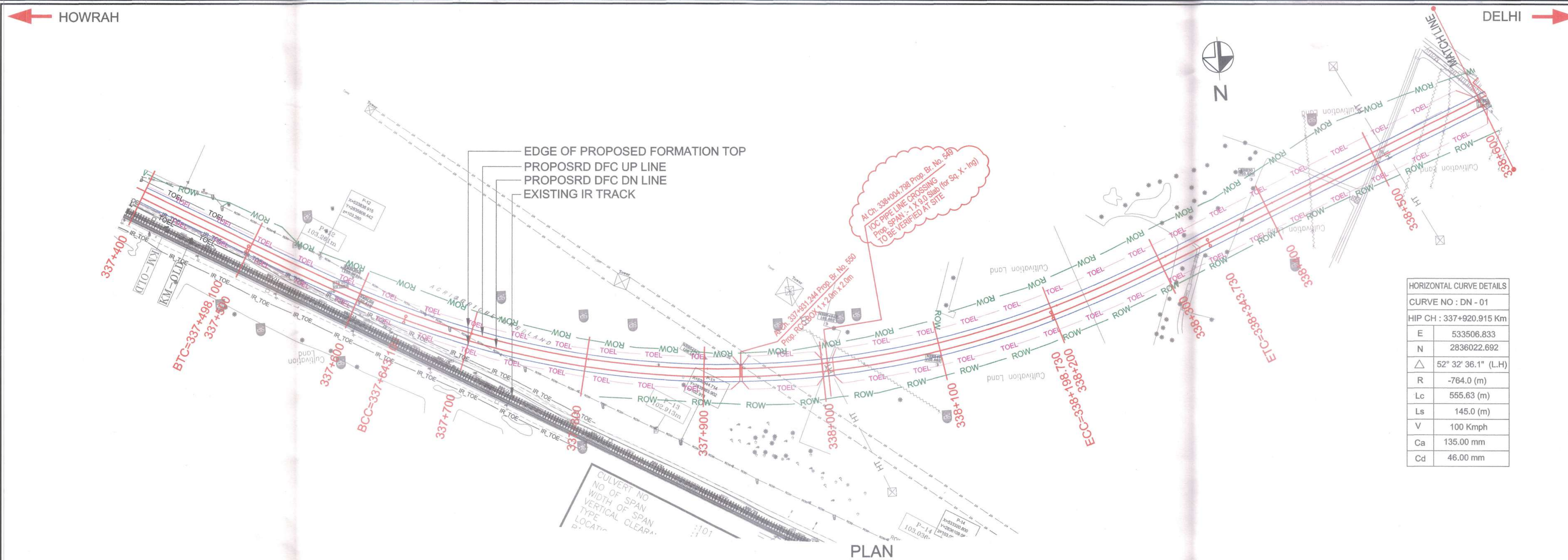
GIL - SIL JV

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
02.08.2017	ABHIJIT DAS	
02.08.2017	SUDDHASIL PURKAIT	
02.08.2017	ANIL KUMAR MITTAL	
SUBMITTED BY : GIL - SIL JV		
DATE	NAME	SIGN.
05/09/17	REEPAK GUPTA	
05/09/17	R.S.P. Singh	
NOC BY : SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
12.05.17	KAMAL SHARMA	
12.05.17	P. AMERIKANOS	
APPROVAL BY : DFC		
DATE	NAME	SIGN.
22-09-17	S.K. MAURYA	

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SECTION-B-202

EMPLOYER :
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B
FROM CH. 337+400 TO CH. 338+600

DRAWING NO. REV SCALE
P 2 AL 0695 I HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
F	30.06.2017	REVISED AS PER LETTER NO.PMCS-EDFC2-LTT-2017-03460 DT:23.06.2017
G	12.07.2017	REVISED AS PER LETTER NO.PMCS-EDFC2-LTT-2017-03785 DT:10.07.2017
H	02.11.2018	REVISED AS PER ROW FROM CH: 337+460 TO CH: 341+705
I	27.11.2018	REVISED AS PER LETTER NO. PMCS-EDFC2-LTT-2018-08625 DT:20.11.2018

DRAWING STAGE

FOR APPROVAL
GOOD FOR CONSTRUCTION

PMC :
SYSTRA - Mott MacDonald JV

CONTRACTOR :
GIL - SIL JV

DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-S RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DRAWN: 27.11.2018 SUSANTA ROY
CHKD: 27.11.2018 SUDDHASIL PURKAIT
APPD: 27.11.2018 SANJIB MITRA

SUBMITTED BY : GIL - SIL JV

DATE NAME SIGN
CHKD: 30.11.18 REEPAK GUPTA
APPD: 30.11.18 Nisheth K. Singh

NOC BY : SYSTRA - Mott MacDonald

DATE NAME SIGN
CHKD: 04.12.18 KAMAL SHARMA
NOC: 04.12.18 KAMAL SHARMA

APPROVAL BY : DFCC

DATE NAME SIGN
CHKD: 19.12.18 S.K. MAURYA

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← HOWRAH

DELHI →

SECTION-B-202

LEGEND :

	EXISTING IR TRACK
	PROPOSED DFCC TRACK
	PROPOSED FORMATION
	DFCC ROW LINE
	EXISTING IR TOE LINE
	DFCC TOE LINE FOR EMB HT < 6.0M
	FLOW DIRECTION OF PROPOSED DRAIN
	EDGE OF PROPOSED FORMATION TOP
	EXISTING GROUND

- NOTES :
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 6. TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAILED DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 10. OFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M. IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 12. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 13. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
 EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :
 ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B
 FROM CH. 338+600 TO CH. 339+800

DRAWING NO.	REV	SCALE
P 2 AL 0696	H	HOR : 1:2000 VER : 1:200

REV	DATE	REMARKS
E	30.06.2017	REVISED AS PER LETTER NO.PMCS-EDFC2-LTT-2017-03460 DT:-23.06.2017
F	12.07.2017	REVISED AS PER LETTER NO.PMCS-EDFC2-LTT-2017-03785 DT:-10.07.2017
G	02.11.2018	REVISED AS PER ROW FROM CH: 337+460 TO CH: 341+705
H	27.11.2018	REVISED AS PER LETTER NO. PMCS-EDFC2-LTT-2018-08625 DT:-20.11.2018

DRAWING STAGE

☒ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC :
 SYSTRA - Mott MacDonald JV

CONTRACTOR :
 GIL - SIL JV

DESIGN CONSULTANT:
 STUP Consultants Pvt. Ltd.
 REGISTERED OFFICE :
 1004-5 RAHEJA CHAMBERS,
 NARIMAN POINT,
 MUMBAI 400 021.
 OFFICE OF ORIGIN
 KOLKATA

	DATE	NAME	SIGN.
DRAWN	27.11.2018	SUSANTA ROY	
CHKD.	27.11.2018	SUDDHASIL PURKAIT	
APPD.	27.11.2018	SANJIB MITRA	

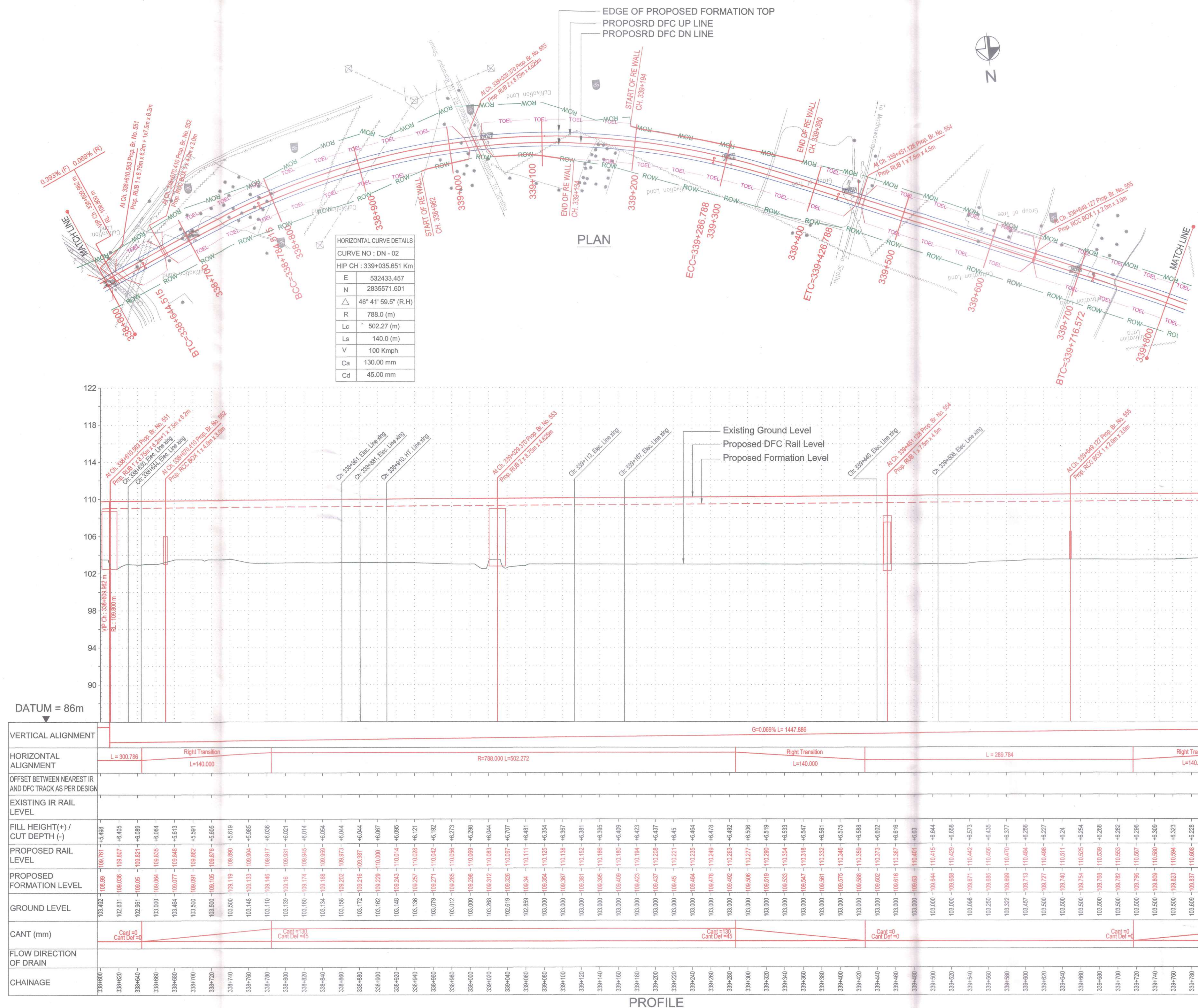
SUBMITTED BY : GIL - SIL JV

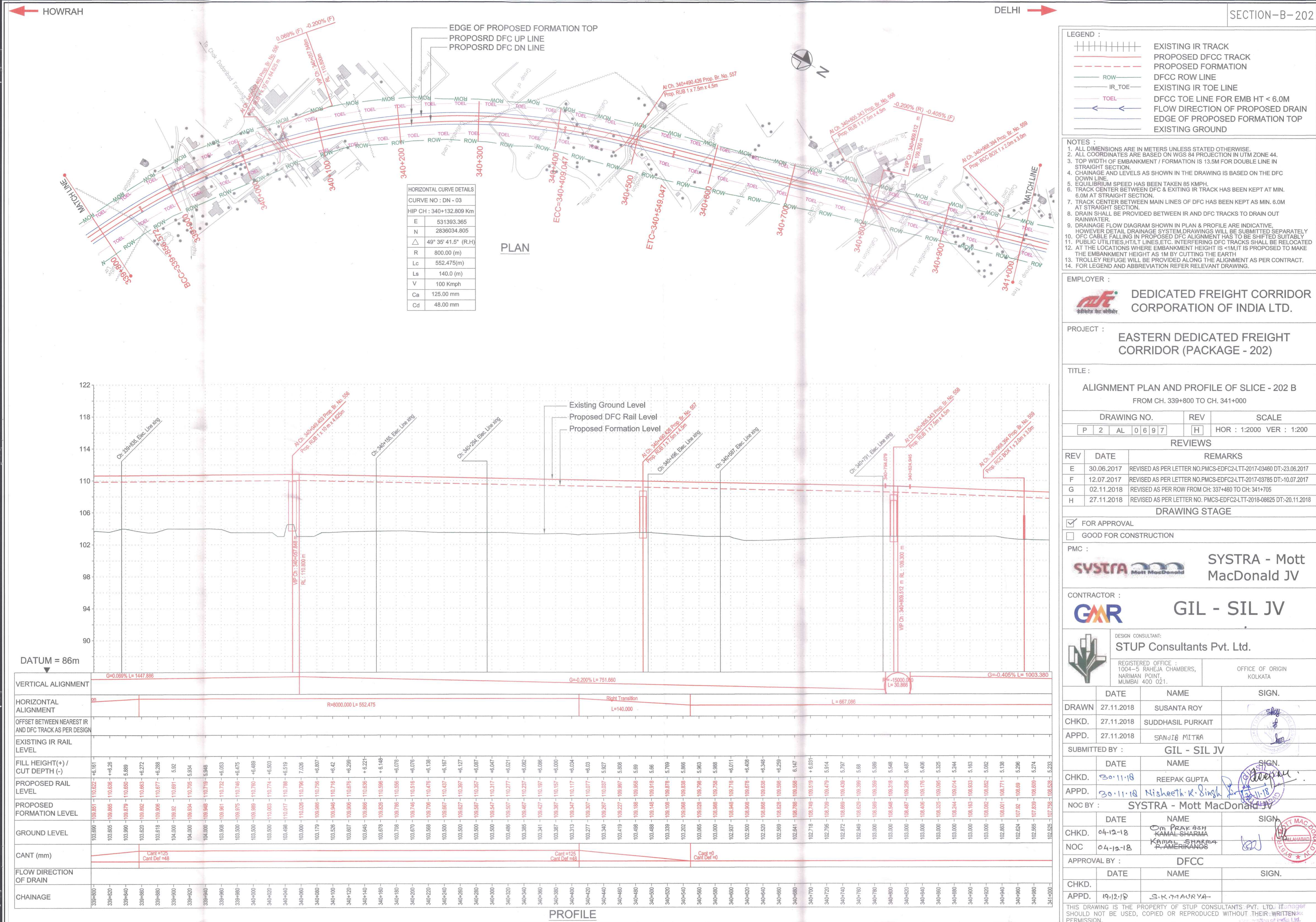
	DATE	NAME	SIGN.
CHKD.	30.11.18	REEPAK GUPTA	
APPD.	30.11.18	Nisheet K. Singh	
NOC BY :	SYSTRA - Mott MacDonald JV		

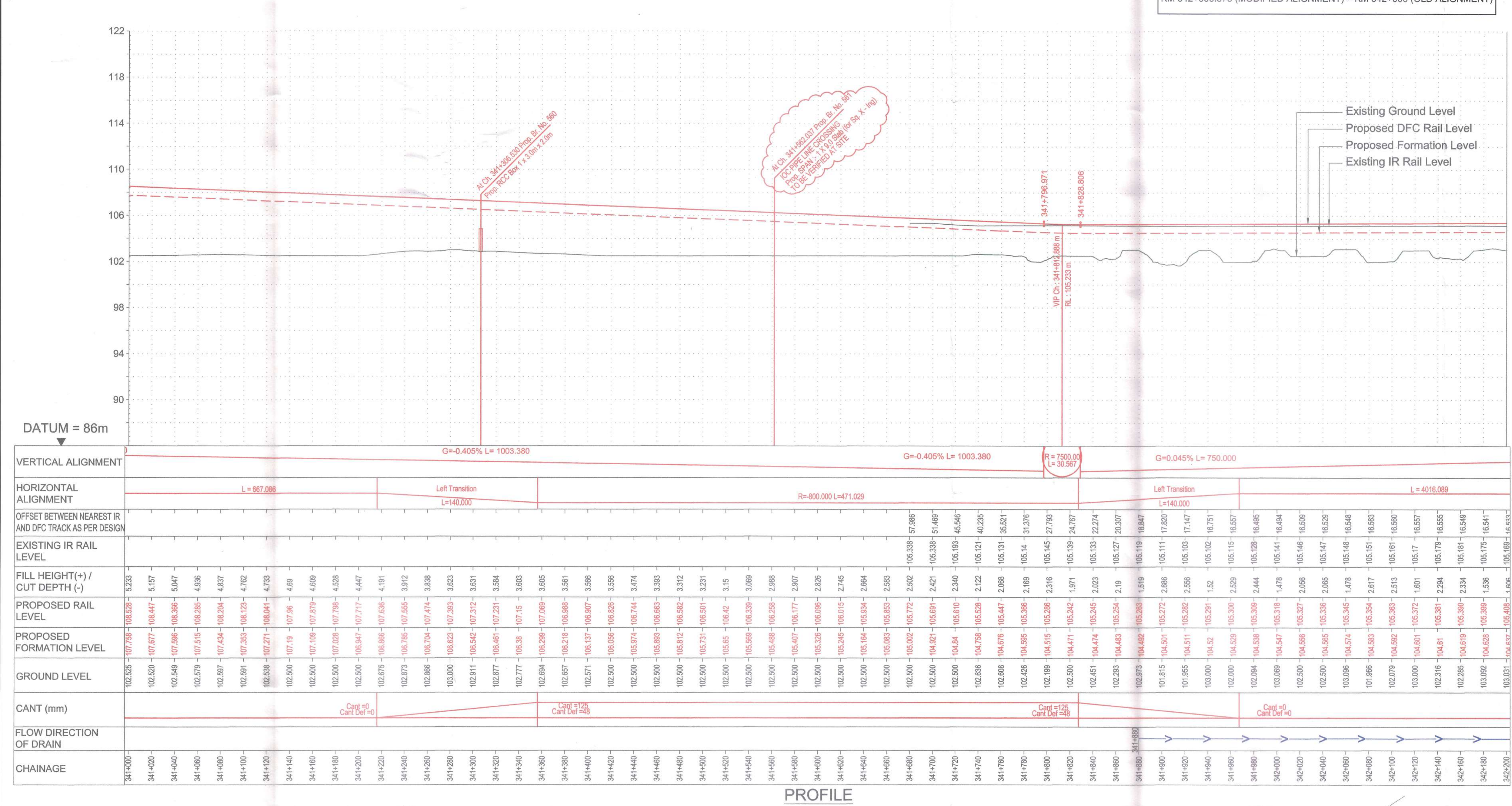
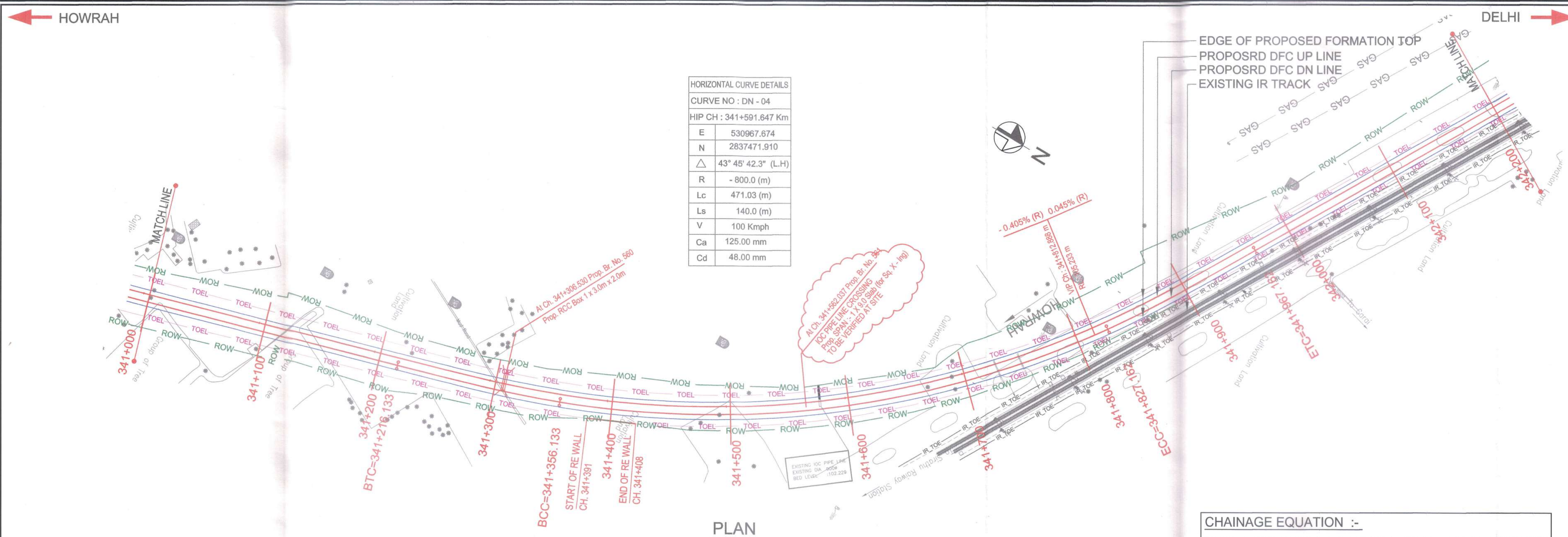
	DATE	NAME	SIGN.
CHKD.	04-12-18	KAMAL SHARMA	
NOC	04-12-18	KAMAL SHARMA	

	DATE	NAME	SIGN.
APPROVAL BY :	DFCC		
CHKD.			
APPD.	19.12.18	S.K. BHARAYA	

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- LEGEND :**
- EXISTING IR TRACK
 - PROPOSED DFCC TRACK
 - PROPOSED FORMATION
 - DFCC ROW LINE
 - EXISTING IR TOE LINE
 - DFCC TOE LINE FOR EMB HT < 6.0M
 - FLOW DIRECTION OF PROPOSED DRAIN
 - EDGE OF PROPOSED FORMATION TOP
 - EXISTING GROUND

- NOTES :**
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 - EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 - TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 - DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 - OPC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
 - AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 - TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B
FROM CH. 341+000 TO CH. 342+200

DRAWING NO.	REV	SCALE
P 2 AL 0 6 9 8	H	HOR : 1:2000 VER : 1:200

REV	DATE	REMARKS
E	30.06.2017	REVISED AS PER LETTER NO. PMCS-EDFC2-LT-2017-03460 DT: 23.06.2017
F	12.07.2017	REVISED AS PER LETTER NO. PMCS-EDFC2-LT-2017-03785 DT: 10.07.2017
G	02.11.2018	REVISED AS PER ROW FROM CH: 337+460 TO CH: 341+705
H	27.11.2018	REVISED AS PER LETTER NO. PMCS-EDFC2-LT-2018-08625 DT: 20.11.2018

DRAWING STAGE
☒ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC :
SYSTRA - Mott MacDonald JV

CONTRACTOR :
GIL - SIL JV

DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-S RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021. OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	27.11.2018	SUSANTA ROY	
CHKD.	27.11.2018	SUDDHASIL PURKAIT	
APPD.	27.11.2018	SANJIB MITRA	
SUBMITTED BY : GIL - SIL JV			
	DATE	NAME	SIGN.
CHKD.	30.11.18	REEPAK GUPTA	
APPD.	30.11.18	Nisheet K. Singh	
NOC BY : SYSTRA - Mott MacDonald JV			
	DATE	NAME	SIGN.
CHKD.	04-12-18	OM PRakash KAMAL SHARMA	
NOC	04-12-18	KAMAL SHARMA P. AMERIKANOS	
APPROVAL BY : DFCC			
	DATE	NAME	SIGN.
CHKD.			
APPD.	19.12.18	S. K. MURVA	

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