Tender No. HORC/HRIDC/C-4/2022

Attachment 8 to Corrigendum No. 3

Section VII-8: Tender Drawings and Documents

A-Tender Drawings

Revised and New Tender Drawings

Section VII-8 A: Tender Drawings

List of Drawings



-Black colour shows Tender drawings which have not been revised in Corrigendum No.3

-Blue colour shows Tender drawings which have been revised in Corrigendum No. 3

-Red colour shows New Tender drawings added with Corrigendum No. 3

Notes:

- 1. Tender Drawings are available for downloading on HRIDC website under Active Tender Section (<u>https://hridc.co.in/active-tender.php</u>).
- 2. Only revised and new drawings added after issue of Corrigendum No. 2 are attached in this Corrigendum No. 3

S. No	TITLE	DRAWING NO.
1 CO	NCEPTUAL PLAN AND LONGITUD	INAL SECTION:
1.	Conceptual plan and longitudinal section from chainage 10.0KM to chainage 15.185KM (tunnel)	GC-HRIDC-ALL-DRW-ALN-P&P-10-15KM_A1
2.	Conceptual plan and longitudinal section from chainage 15.185KM to chainage 20.0KM	GC-HRIDC-ALL-DRW-ALN-P&P-15-20KM_A1
3.	Conceptual plan and longitudinal section from chainage 24.0KM to chainage 30.0KM (tunnel)	GC-HRIDC-ALL-DRW-ALN-P&P-24-30KM_A1
2 TU	NNEL	
1.	Conceptual drawing for Single track tunnel cross section (Rock)	GC-HRIDC-C4-DRW-TTL-CLT-01001_A1
2.	Conceptual drawing for Single track tunnel cross section (Soil)	GC-HRIDC-C4-DRW-TTL-CLT-01002_A1
3.	Conceptual drawing for Support class III from CH: 24940 to CH: 26000	GC-HRIDC-C4-DRW-TTL-CLT-01003_A0
4.	Conceptual drawing for Support class IV from CH: 24880 to CH: 24940	GC-HRIDC-C4-DRW-TTL-CLT-01004_A0
5.	Conceptual drawing for Support class VI (i) from CH: 26000 to CH: 28420	GC-HRIDC-C4-DRW-TTL-CLT-01005_A0
6.	Conceptual drawing for Support class VI(ii) from CH: 28420 to CH: 28480	GC-HRIDC-C4-DRW-TTL-CLT-01006_A0
7.	Conceptual drawing for Tunnel typical detail of lattice girder	GC-HRIDC-C4-DRW-TTL-CLT-01007_A0
8.	Conceptual drawing for Cut & cover section of tunnel	GC-HRIDC-C4-DRW-TTL-CLT-01008_A1

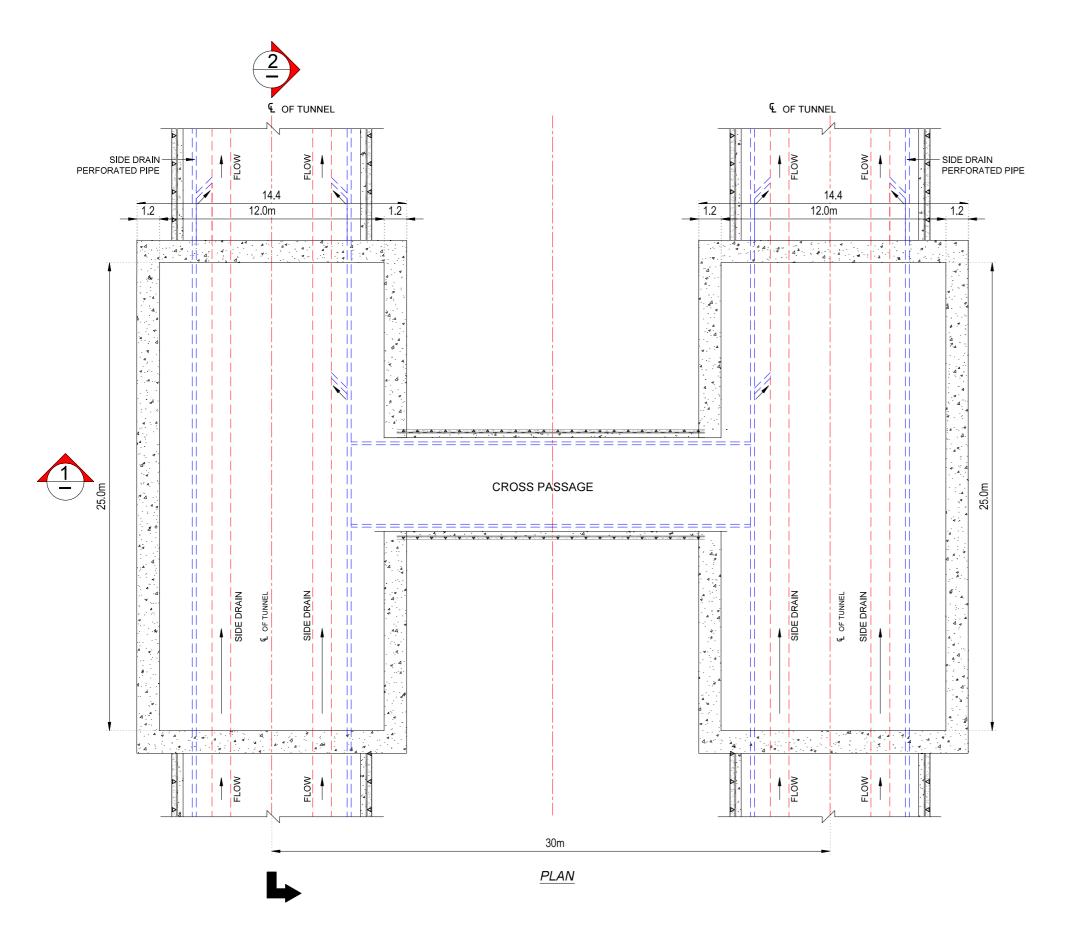
S. No	TITLE	DRAWING NO.
9.	Conceptual drawing for Cross passage junction with main tunnel	GC-HRIDC-C4-DRW-TTL-CLT-01009_A1
10.	Conceptual drawing for Permanent Ventilation shaft junction with main tunnel	GC-HRIDC-C4-DRW-TTL-CLT-01010_A2 (Sheet 1 of 3)
		GC-HRIDC-C4-DRW-TTL-CLT-01010_A2 (Sheet 2 of 3) GC-HRIDC-C4-DRW-TTL-CLT-01010_A2
		(Sheet 3 of 3)
11.	Conceptual drawing for Construction cum utility shaft	GC-HRIDC-C4-DRW-TTL-CLT-01011_A2
12.	Conceptual drawing for Portal-1 & Abutment A2 of viaduct with drainage excavation plan & sections	GC-HRIDC-C4-DRW-TTL-CLT-01012_A1
13.	Conceptual drawing for Portal-2 & open cutting area with 100m ballastless track	GC-HRIDC-C4-DRW-TTL-CLT-01013_A1
3 BRI	DGES	
3.1 MI	NOR BRIDGES	
1.	Conceptual general arrangement drawing for Balancing culvert Bridge no. 047 Span 1.0x2.0x2.0 RCC box at Ch: 12208.018	GC-HRIDC-C4-DRW-BRD-GAD-01047_A1
2.	Conceptual general arrangement drawing for Drain + Road Bridge no. 048 span 1x4.0×5.0+1x5×5 RCC box at Ch: 12298.962	GC-HRIDC-C4-DRW-BRD-GAD-01048_A1
3.	Conceptual general arrangement drawing for pipe culvert Bridge no. 049 span 1.0x1.80ø Pipe culvert at Ch: 12341.836	GC-HRIDC-C4-DRW-BRD-GAD-01049_A1
4.	Conceptual general arrangement drawing for Balancing culvert Bridge no. 050 Span 1.0x2.0x2.0 RCC box at Ch: 12645.715	GC-HRIDC-C4-DRW-BRD-GAD-01050_A1
5.	Conceptual general arrangement drawing canal Bridge no. 051 span 1.0x3.0x3.0 RCC box at Ch: 13114.998	GC-HRIDC-C4-DRW-BRD-GAD-01051_A1
6.	Conceptual general arrangement drawing for Balancing culvert Bridge no. 052 Span 1.0x3.0x3.0 RCC box at Ch: 13903.112	GC-HRIDC-C4-DRW-BRD-GAD-01052_A1
		Attachment 8 to Comizen dum No. 2

. No	TITLE	DRAWING NO.
7.	Conceptual general arrangement drawing for canal Bridge no. 054 1.0x3.0x3.0 RCC box at Ch: 14601.627	GC-HRIDC-C4-DRW-BRD-GAD-01054_A1
8.	Conceptual general arrangement drawing for Road under bridge, Bridge no. 055 Span 1×5.0×5.0 RCC box at Ch: 14756.727	GC-HRIDC-C4-DRW-BRD-GAD-01055_A1
9.	Conceptual general arrangement drawing for Balancing culvert Bridge no. 056 Span 1.0x2.0x2.0 RCC box at Ch: 15100.163	GC-HRIDC-C4-DRW-BRD-GAD-01056_A1
10.	Conceptual general arrangement drawing for Road under bridge, Bridge no. 057 Span 1×5.0×5.0 RCC box at Ch: 15944	GC-HRIDC-C4-DRW-BRD-GAD-01057_A1
11.	Conceptual general arrangement drawing proposed RUB no. 060 Span 2×7.0×5.6 RCC box at Ch: 16827	GC-HRIDC-C4-DRW-BRD-GAD-01060_A2
2 M	AJOR BRIDGES	
1.	Conceptual general arrangement drawing for stream bridge no.53 2x24.4 CG at Ch: 14472.112m	GC-HRIDC-C4-DRW-BRD-GAD-01053_A2
2.	Conceptual general arrangement drawing for Canal Br.no. 058 1 x 5 x 5.4m + 1 x 12.2m + 1 x 5 x 5.4m PSC U slab Ch: 16127	GC-HRIDC-C4-DRW-BRD-GAD-01058_A2
3.	Conceptual general arrangement drawing proposed RUB no. 059 2 x 12.2m PSC U slab Ch: 16727	GC-HRIDC-C4-DRW-BRD-GAD-01059_A2
4.	Conceptual general arrangement drawing proposed Canal Br. No. 061 1x5x5.4+1x12.2+1x5x5.4m PSC U slab Ch: 16917	GC-HRIDC-C4-DRW-BRD-GAD-01061_A2
5.	Conceptual general arrangement drawing proposed RUB no. 062 1 x 12.2m PSC U slab Ch: 17500	GC-HRIDC-C4-DRW-BRD-GAD-01062_A2

S. No	TITLE	DRAWING NO.
4 MIS	CELLANEOUS DRAWINGS (CONC	EPTUAL PLANS)
1.	Jurisdictional sketch of C-4 package	GC-HRIDC-C4-SK-CIVIL-001_A1
2.	Schematic diagram of HORC tunnel	GC-HRIDC-C4-SK-TUNNEL-001_A1
3.	ConceptualPlanTypicalembankment/cutting profile	GC-HRIDC-SK-GEN-001_A2
4.	Conceptual Plan Drains for Embankment	GC-HRIDC-SK-GEN-008_A2
5.	Conceptual Plan Steel barricade	GC-HRIDC-SK-GEN-009
6.	Conceptual Plan Interfacing location bank benching	GC-HRIDC-C4-SK-012_A2
7.	Conceptual Plan CC Toe wall	GC-HRIDC-SK-GEN-014_A2
8.	Conceptual Plan Typical details of protection work	GC-HRIDC-SK-GEN-015_A1
9.	Conceptual Plan Barbed wire fencing	GC-HRIDC-SK-GEN-016_A1
10.	Conceptual Plan for Transition system of bridge approaches	GC-HRIDC-SK-GEN-019_A1
11.	Conceptual plan for Trolley Refuge in embankment	GC-HRIDC-SK-GEN-022
12.	Conceptual plan for Trolley Refuge in cutting	GC-HRIDC-SK-GEN-023
13.	Conceptual sketch for NP4 pipe of 450mm Dia	GC-HRIDC-SK-GEN-028_A1
14.	Conceptual sketch for precast RCC box 500 x 500 mm size	GC-HRIDC-SK-GEN-029_A1
15.	Conceptual general arrangement drawing crossing of HORC rail line below Vadodara expressway	GC-HRIDC-SK-GEN-030_A0
16.	Typical sketch for approach road of RUBs.	GC-HRIDC-SK-GEN-031_A0
17.	Conceptual sketch for details of stairs from cutting in formation to ground	GC-HRIDC-C4-SK-TUNNEL-002_A0
5 GEN	NERAL ELECTRICAL SERVICES DI	RAWINGS
1.	Indicative layout plan of Sub-station 11/0.433KV near utility shaft	GC-HRIDC-C4-DRW-TTL-ELE-001_A2
2.	Indicative layout plan of Sub-station 11/0.433KV	GC-HRIDC-C4-DRW-TTL-ELE-002_A2
3.	Power supply for lighting arrangement (indicative)	GC-HRIDC-C4-DRW-TTL-ELE-003_A2
4.	Power supply arrangement for emergency and maintenance power socket diagram (indicative)	GC-HRIDC-C4-DRW-TTL-ELE-004_A2
5.	Single line diagram of HT system in tunnel (indicative)	GC-HRIDC-C4-DRW-TTL-ELE-005_A1
		Attachmont & to Corrigondum No. 2

S. No	TITLE	DRAWING NO.		
6 LAN	ND AREA FOR TUNNEL			
1.	Land area near Portal-1	HRIDC-C4-SK-LANDPLAN-001_A1		
2.	Land area near permanent Ventilation shaft 1 & 2	HRIDC-C4-SK-LANDPLAN-002_A1		
3.	Land area near Construction cum utility shaft	HRIDC-C4-SK-LANDPLAN-003_A1		
4.	Land area near permanent Ventilation shaft 3 & 4	HRIDC-C4-SK-LANDPLAN-004_A1		
5.	Land details from Ch: 28341m to 29680m	HRIDC-C4-SK-LANDPLAN-005_A1		

Tunnel



GC/HORC	>	
NAME / DESIGNATION	SIGN	NAME / DESIGNA
CHAHATEY RAM PD	Chahatey Rem	SHIV OM DWIV CPM/HRIDC
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU SOLAN DGM/CIVIL/S
		AM/S&T
REETU PATIAL CDE /CIVIL	Rute	
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STIPHEN SAHOO SRE/Elect.	Stighten	JGM/L&U

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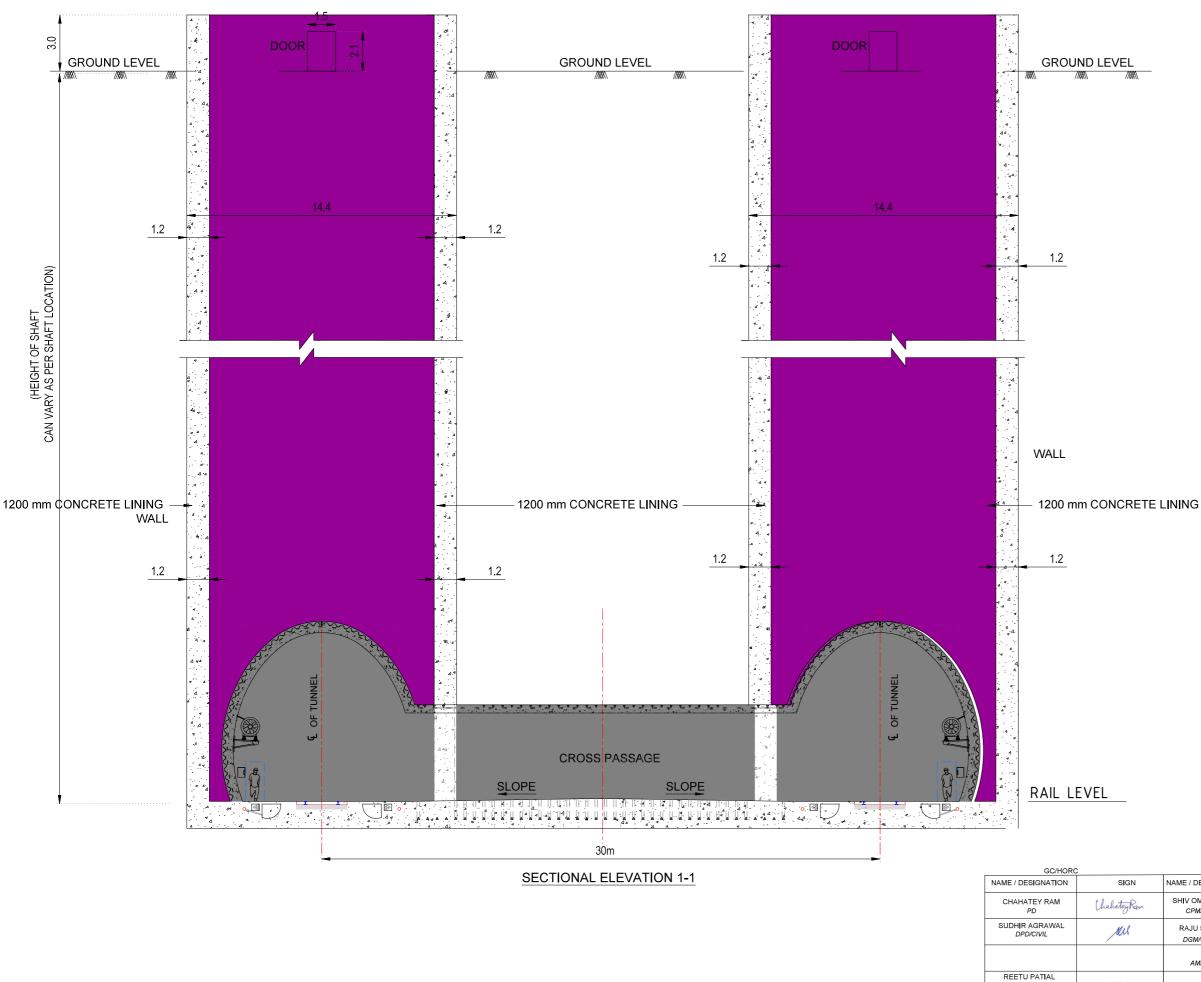
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- METER, UNLESS OTHERWISE SPECIFIED. NO DIMENSIONS SHALL BE MEASURED FROM DRAWING.
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- ON ACTUAL RESPONSE OF STRATA DURING EAGAVATION. DRAINAGE PIPE SHALL BE 150mmØ, PERFORATED PVC PIPE WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC AS PER IS-4989
- EXCAVATION SEQUENCE WILL BE PROVIDED BASED ON GFC.
- PIPE ROOFING/FOREPULING OF 114 MM DIA SHALL BE PROVIDED WHERE EVER IT IS REQUIRED. SELF DRILLING ANCHOR OF CAPACITY 190 KN SHALL BE PROVIDED FOR PRIMARY SUPPORT DURING EXCAVATION.
- LATTICE GIRDER 25-25-32 OF DEPTH 187 MW ISMB 200 MM SHALL BE INCASED IN SFRS OF MINIMUM THICKNESS 250 MM.
- DIMENSION OF PRIMARY SUPPORT & CONCRETE ARE TENTATIVE. INSERT PLATES SHALL BE PROVIDED IN THE WALL FOR PROVISION
- OF SS STAIRS OF MINIMUM WIDTH OF 1.5M. ROOFING SYSTEM OVER SHAFTS SHALL BE PROVIDED AS PER DBR.

LOCATION			
SHAFT-1	CH:26080		
SHAFT-2	CH.20080		
SHAFT-3	CH:27680		
SHAFT-4	CH.27060		

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					L INFRASTRUG	
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HARYANA ORBITAL RAIL CORRIDOR

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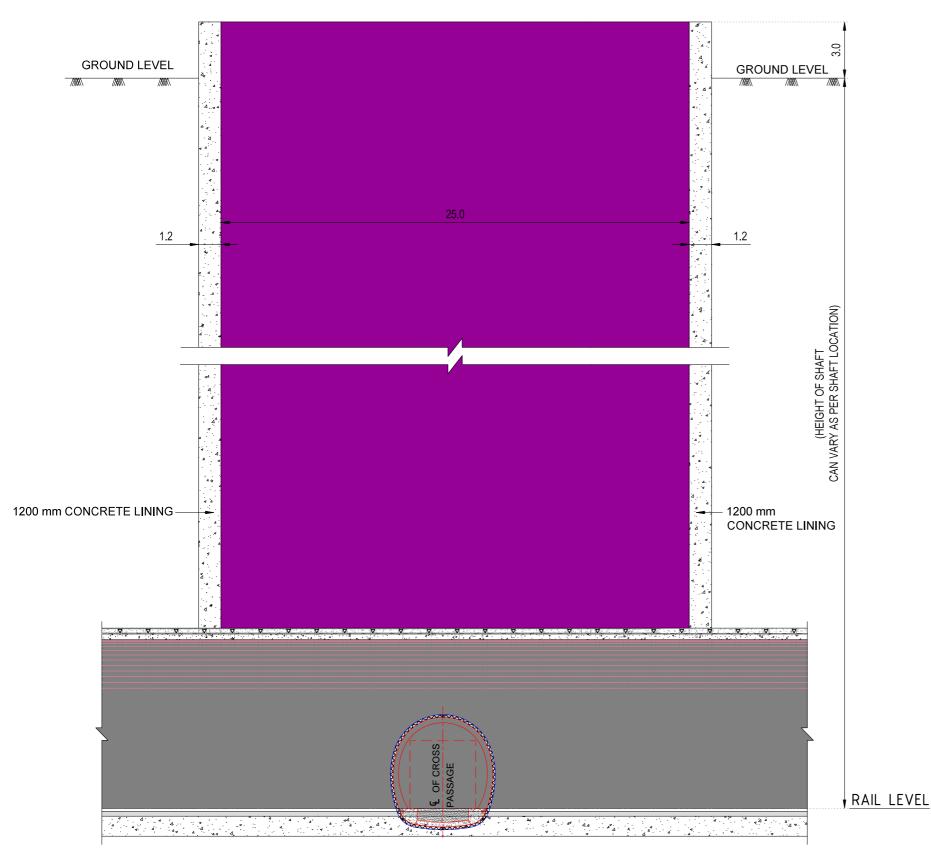
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LOCATION			
SHAFT-1	CH:26080		
SHAFT-2	СП.20080		
SHAFT-3	CH:27680		
SHAFT-4	CH.27080		

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PROJECT:

HARYANA ORBITAL RAIL CORRIDOR



SECTIONAL ELEVATION 2-2

GC/HORC		
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OTES:-

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- DRAINAGE PIDE SHALL BE 150mmØ, PERFORATED PVC PIPE WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC AS PER IS-4989 EXCAVATION SEQUENCE WILL BE PROVIDED BASED ON GFC.

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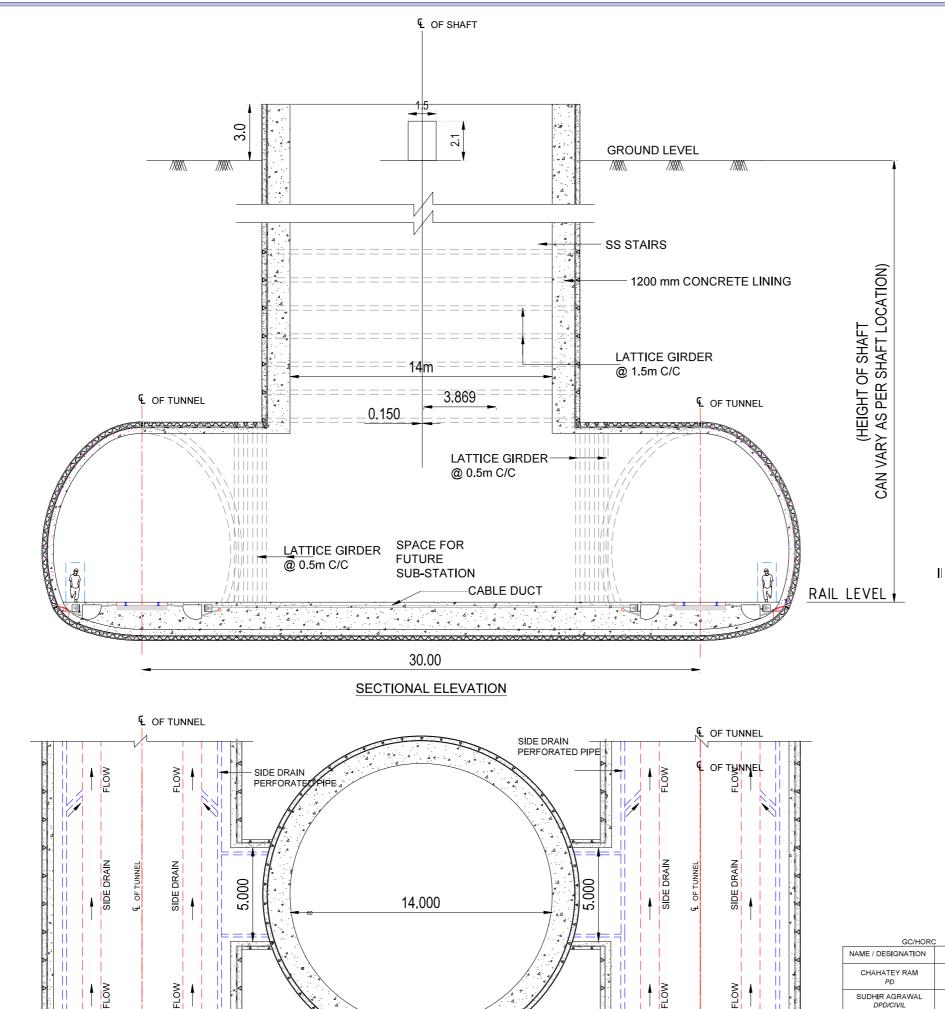
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SHAFT-2	CH.20080			
SHAFT-3	CH:27680			
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PROJECT:-

HARYANA ORBITAL RAIL CORRIDOR

IECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING TI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE



GC/HORC		
NAME / DESIGNATION	SIGN	NAME / DI
CHAHATEY RAM PD	Chahatey Rem	SHIV ON CPM
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU DGM/
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AMARNATH SINGH CRE/S&T	Sumemeth Sil	AM/C
STIPHEN SAHOO SRE/Elect.	Juinter	JGI

1200 mm CONCRETE LINING

PLAN

NOTES:-

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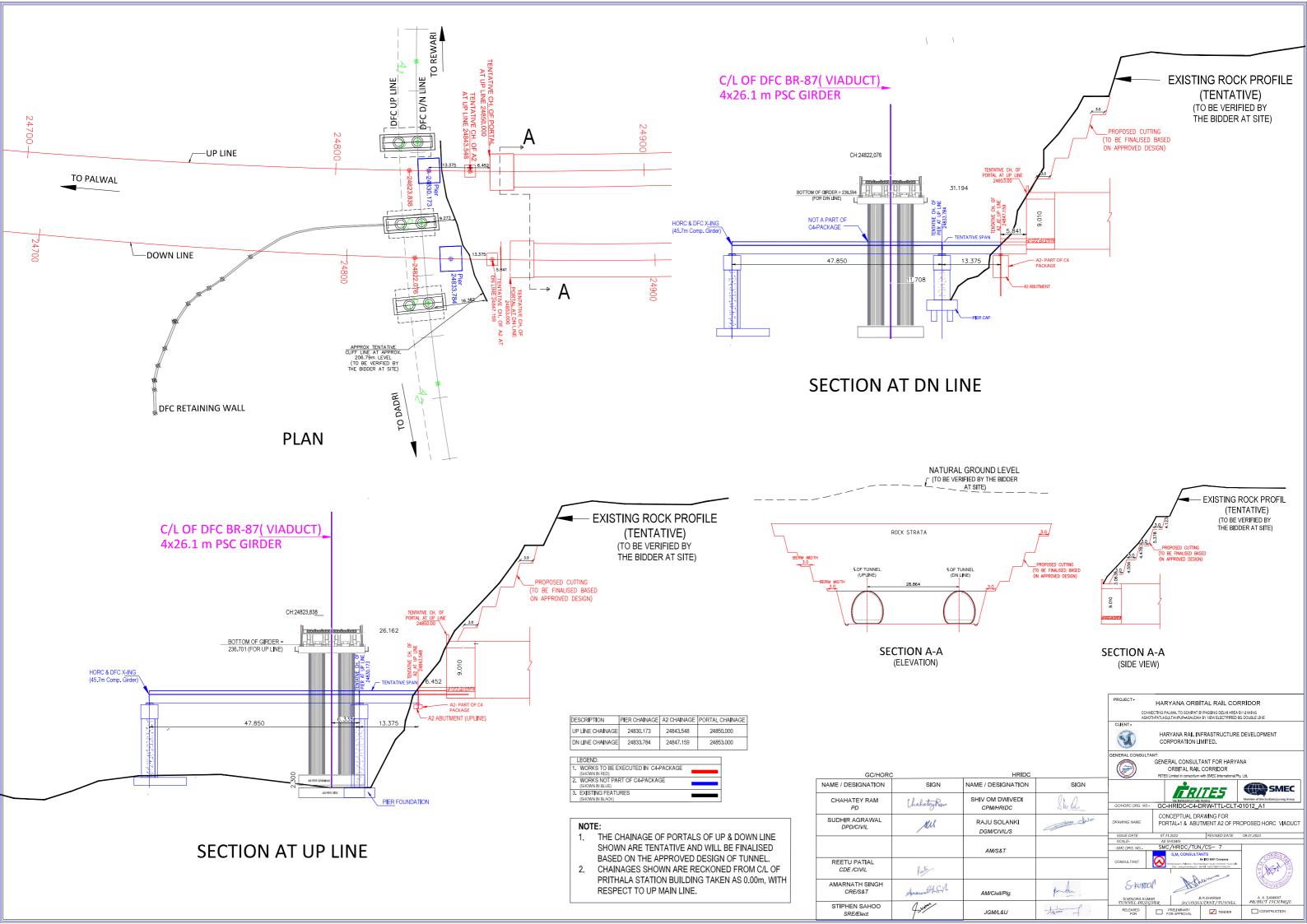
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- 13. ROOFING SYSTEM OVER SHAFTS SHALL BE PROVIDED AS PER DBR.

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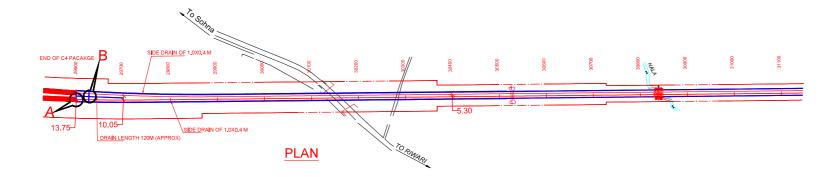
PROJECT

HARYANA ORBITAL RAIL CORRIDOR

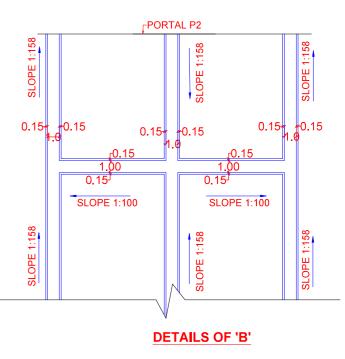
CTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING I-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE



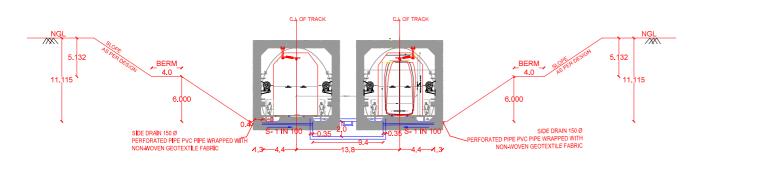
DETAILS OF SIDE DRAIN & PORTAL 2

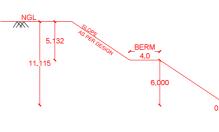


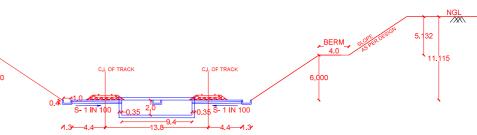




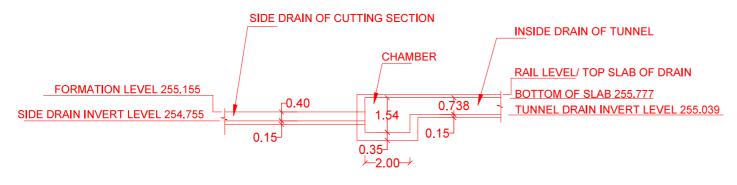
LONGITUDINAL SECTION







CROSS SECTION AT CUTTING AT PORTAL



DETAILS OF 'A' DRAIN SLOPE AS PER FORMATION CROSS SECTION AT CUTTING BEFORE PORTAL

				PROJECT- HARYANA ORBITAL RAIL CORRIDOR
				CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE
				CUENT- HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED.
				GENERAL CONSULTANT FOR HARYANA
GC/HORC	;	HRIDC		ORBITAL RALL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd.
NAME / DESIGNATION	SIGN	NAME / DESIGNATION	SIGN	
CHAHATEY RAM PD	Chahatey Rom	SHIV OM DWIVEDI CPM/HRIDC	Sh. a.	GCHORC DRG: NO- GC-HRIDC-C4-DRW-TIL-CLT-01013_A1
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU SOLANKI DGM/CIVIL/S	Julei	DRAWING NAME CONCEPTUAL DRAWING FOR PORTAL -2 & OPEN CUTTING AREA WITH 100M BALLASTLESS TRACK
		AM/S&T		SMC DRG. NO. SMC/HRIDC/TUN/CS-7
REETU PATIAL CDE /CIVIL	Rute .			CONSULTANT: ON THE State of the
AMARNATH SINGH CRE/S&T	Smernet Sil	AM/Civil/Plg.	pole.	S. KURDAR SILENDRA KIMAR BRSHARMA A A SMANT
STIPHEN SAHOO SRE/Elect.	Sister	JGM/L&U	starm f.	SIVENDRA KUMAR ERSHARMA A A SAMANT TUNNYEL DESIGNER SKCONSULTANT/TUNNEL PROFECT INCHARGE RELATION FOR PREJIMINARY FOR PROFECT SCONSULTANT/TUNNEL CONSTRUCTION

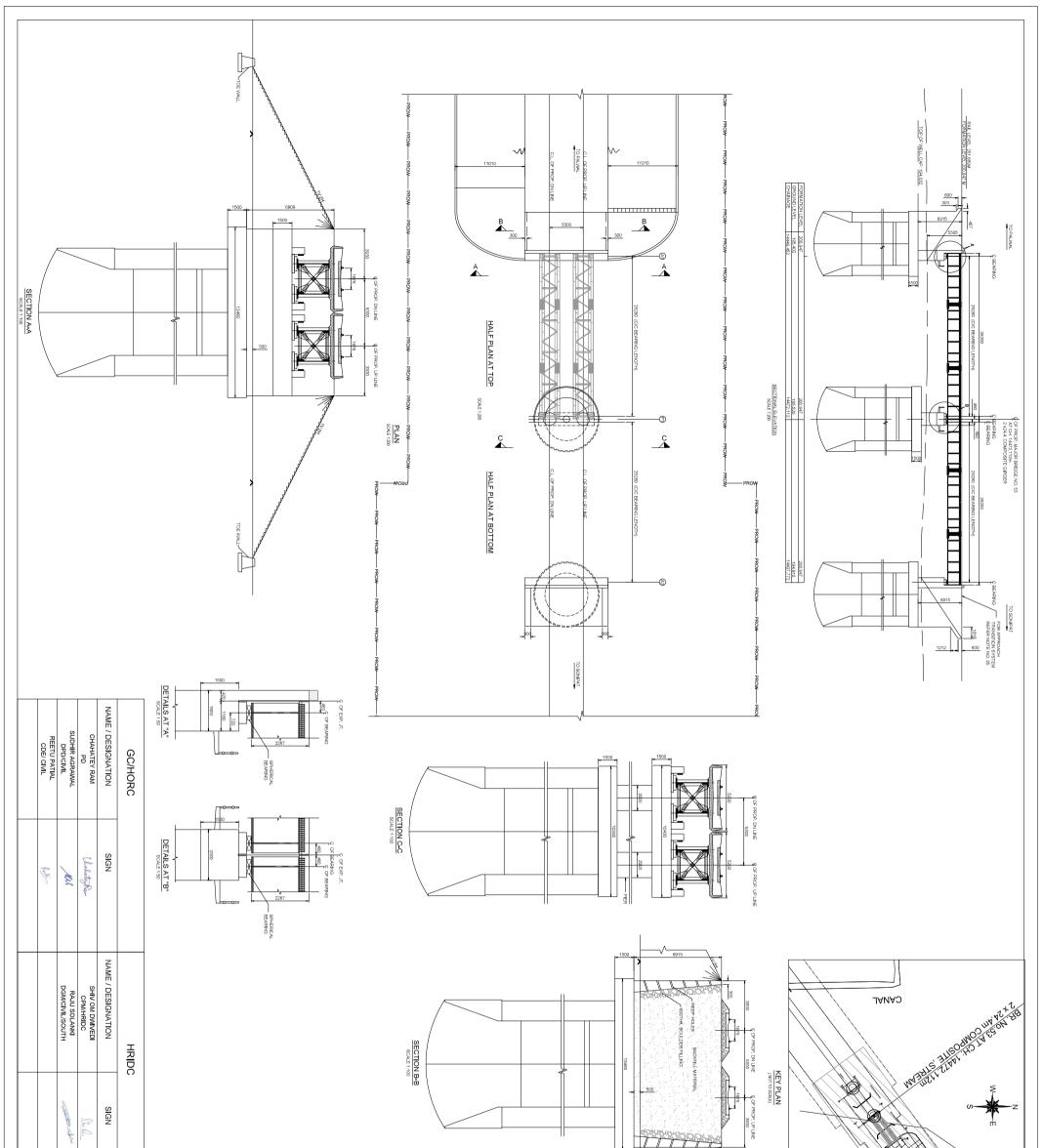
Minor Bridges

BASE COURSE SAND FILLING SAND FILLING SCALE 1:50 SCALE 1:50 SCALE 1:50 SCALE 1:50 SCALE 1:50 SCALE 1:50 SCALE 1:50	450	BOTTOM SLAB 750 200 25 450 - 225		NUER TIBE	POW OF EXISTING ROAD IS 13.410M	HEIGHT HOT UNCE HEIGHT HOT UNCH HOT UNCE HEIGHT HOT UNCE HEIGHT HOT UNCE HEIGH
DEDICML REETU PATIAL CDE/ CML		NAME / DESIGNATION	GC/HORC		SAVE THE REPORT OF THE REPORT	PROV PROV PROV
let.	(hahatey Por	SIGN		BACKED BOULDERS BACKED BOULDERS BACK FILL BACK FILL BACK FILL BACK FILL BACK FILL BACKED BOULDERS	SAND FILLING F	
DGM/CVL/SOUTH		NAME / DESIGNATION	HRIDC	PACKED BOULDERS PACKED BOULDERS BACK FIL BACK FIL MATERIAL INFER I	SECTION C-C	
and the second	St. a.	SIGN		LEGEND PRL PROPOSED RALL LEV HFL HEIGHEST FLOOD LE GROUND LEVEL	NOT TO SCALE)	W - S - C(102) 0,1,1002 0,1,1002 0,1,1002 0,1,1002 100

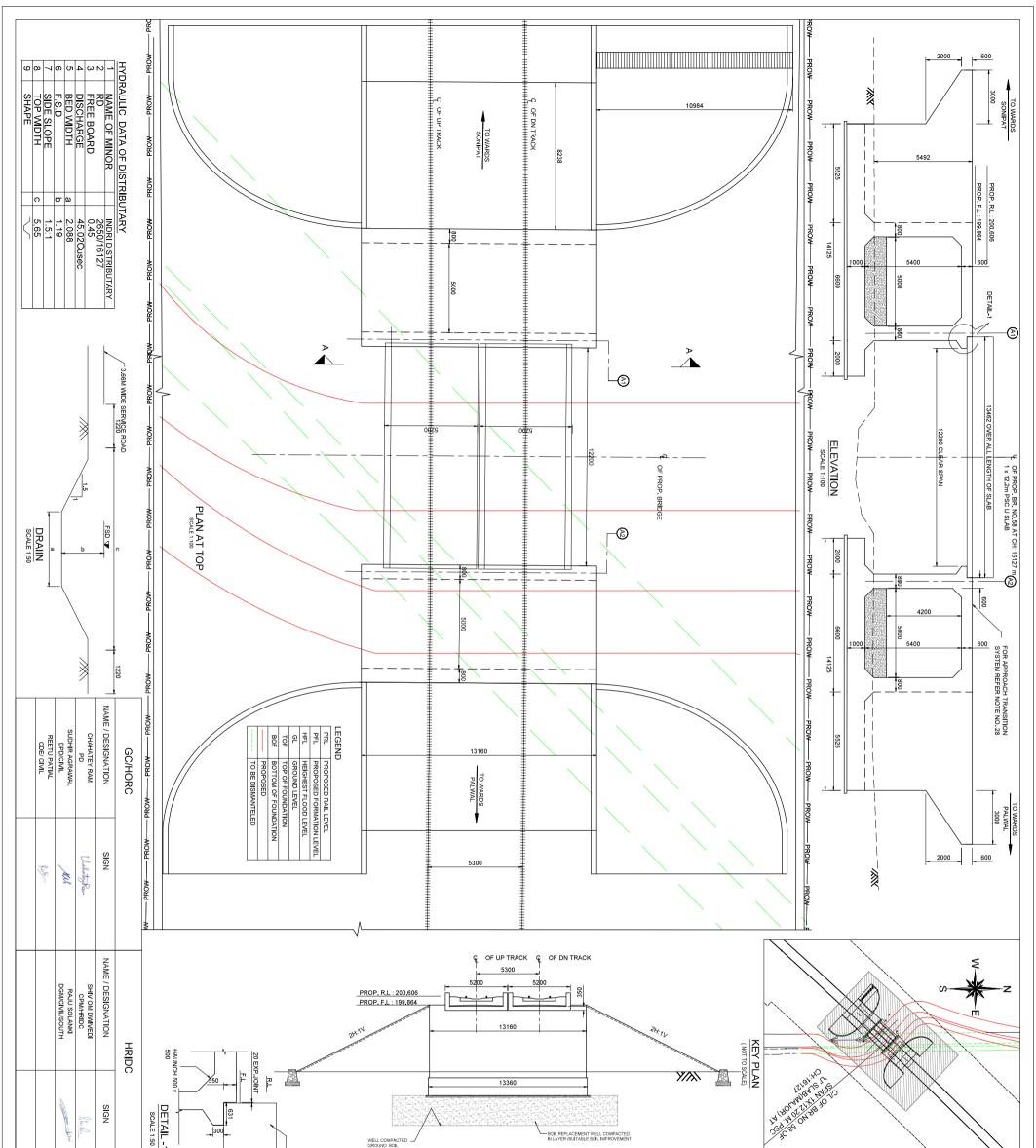
SIGN		OPOSED RAIL LEVEL OPOSED FORMATION LEVEL IGHEST FLOOD LEVEL IOUND LEVEL		
TITLE:- CONCEPTUAL GENERAL ARRANGEMENT DRAWING PROPOSED RUB NO. 060 PROPOSED RUB NO. 060 SPAN 2×7.0×5.6 RCC BOX AT CH: 16827 SHEET NO. GC-HRIDC-C4-DRW-BRD-GAD-01060_A2 1 OF 1 SCALE : ISSUE DATE REVISED DATE AS SHOWN 07-11-2022 10-01-2023	CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd. INFORMATION INFORMATION INFORMA	IMPORTANT NOTE: TOP OF BOTTOM SLAB OF RCC BOX SHALL NOT BE KEPT ABOVE THE NATURAL GROUND LEVEL. HOWEVER, ROAD LEVEL AND VERTICAL CLEARANCE ABOVE ROAD LEVEL. SHALL BE MANITAINED AS SHOWN IN THE DRAWING OVERALL HEIGHT OF THE BOX MAX TREED MODIFICATION ACCORDINGLY. THE HEIGHT OF RCC BOX SHALL BE PROVIDED KEEPING ABOVE PROVISION IN VIEW. PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELH AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE	 NERECTION STEES SHALL BE PROVIDED AT DIAGONALLY OPPOSITE ENDS FOR PROPER DRAINAGE OF WATER, Somm PCC M-20 WITH SUITABLE SLOPE FOR BRODER DO TOP OF EOX SLAB. ALL CLEAN EXPANSION JOINTS SHALL BE FILLED WITH THERMOCOL. PLACEMENT LEVEL OF EOX AS SHOWN IN THIS GAD IS INDICATIVE AND MAY BE SUITABLY LOWREDCENELEVATED BASED UPON THE RECURRENENT OF CLEARANCE. DRAINAGE BANTURAL GROUND PROFILE. DESIGNI CATERA SHALL BE BASED CODE IRS BRIDGE RULE IRS BRIDGE RULE BARDOE FOR A SHOWN IN THIS GAD IS INDICATIVE AND MAY EXPOSURE CONSTRUCTION. IF RECURRED, ROAD CLOSURE TO BE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, ROAD CLOSURE TO BE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, ROAD CLOSURE TO BE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, ROAD CLOSURE TO BE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, ROAD CLOSURE TO BE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, ROAD CLOSURE TO SE OBTAINED 9. DURING CONSTRUCTION, IF RECURRED, THIS COST. THE BACK FILL MATERIAL SHALL BE CONFORMING TO LAUSE 7.5 OF IRS 9. DURING CONSTRUCTION FILE CONFORMING TO LAUSE 7.5 OF IRS 9. DURING CONSTRUCTION IN CONTRACTION TO LOUD BE PAINTED WITH BITUMENT OR COAL TAR OF APPROVED CUALITY © 1.444 KGSSMM.CONFORMING TO IS 11786 FOR CONCRETE SPECIFICATION REFER IRS CONCRETE BRIDGE CODE. MALL RCC SURFACES CONNERET IS TENTATURED DESIGN DRG. FOR CONCRETE SPECIFICATION REFER IRS CONCRETE BRIDGE CODE. MALL RCC CURRENT SHALL BE F-5000 (TM) CONFORMING TO IS 1786 FOR CONCRETE SPECIFICATION REFER IRS CONCRETE BRIDGE CODE. MERORTERUNG TO SUBJECT ALLED DESIGN DRG. HERARING COURSELEVEN CONRECTE IS MALLED DESIGN DRG. EBARING CARCITY OS DUS SULLABE FORVED ON AS PER OFTAILED DESIGN REQURREMENT, GROUND IMPROVEMENT SHALL BE CARRED OUT AS PER GT RECOVERENT SHALL BE FOOLD DR FIGUNATION LEVEL DURING DRAWING SHALL BE FOLLOWED FOR FOUNDATION LEVEL DURING DE	 NOTES : AIGENERAL NOTES AIGENERAL AS AND AIGENERAL AND AND AND AND AND AND AND AND AND AND

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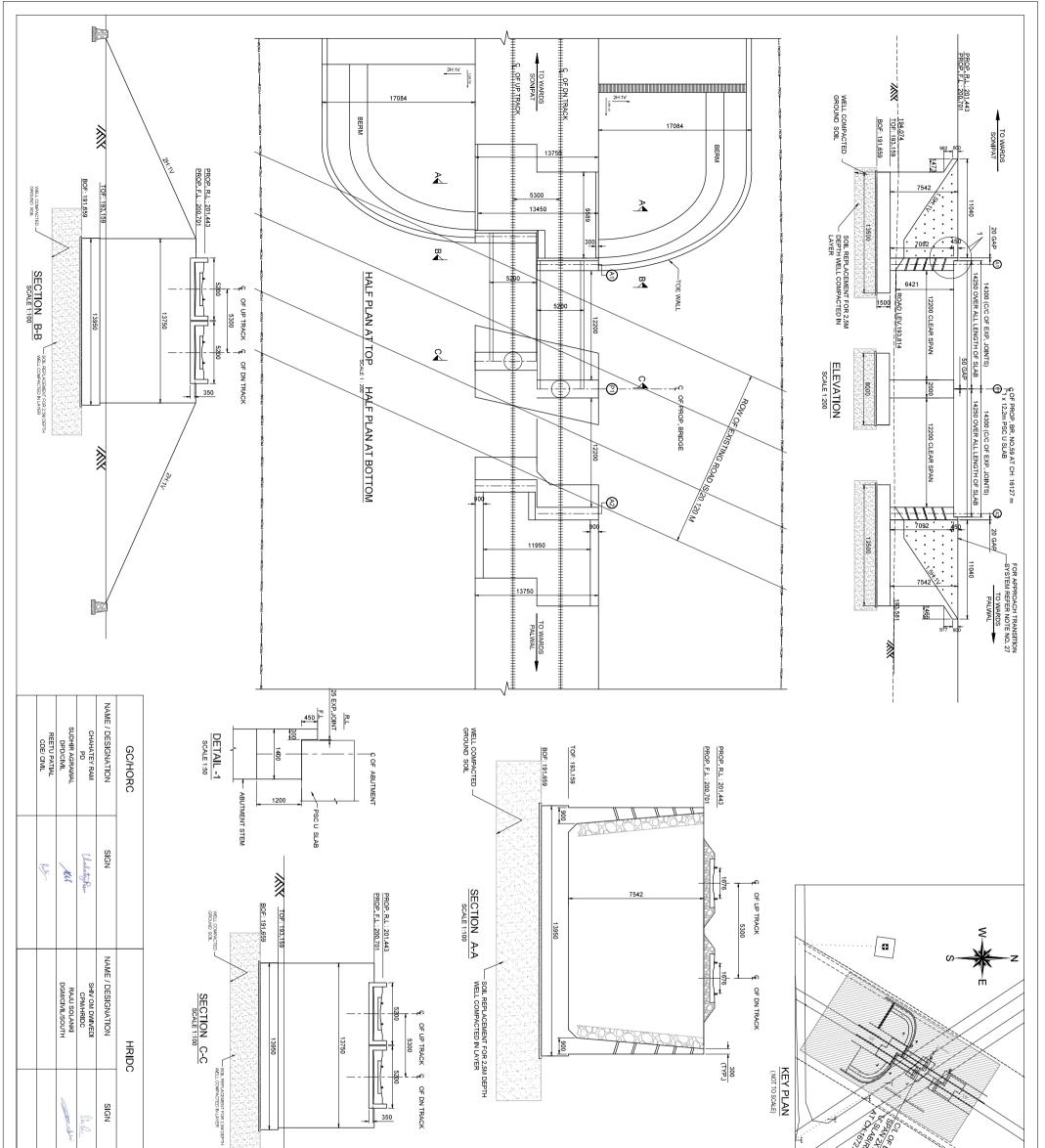
Major Bridges



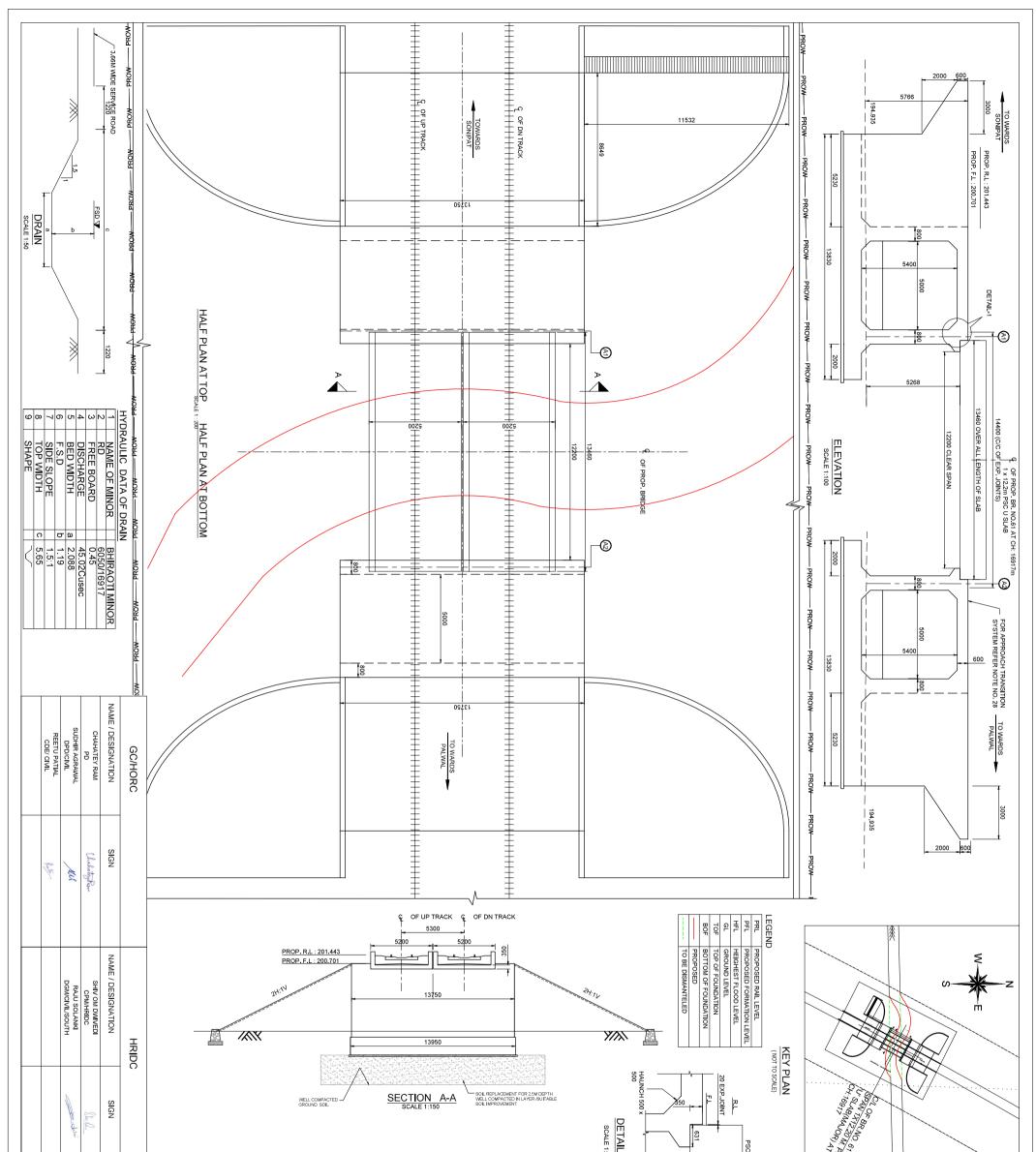
	**							
2022		TITLE:- CONCEPTUAL GENERAL ARRANGEMENT DRAWING FOR STREAM BRIDGE NO.53 2x24.4 CG AT CH: 14472.112m	THE INFRASTRUCTURE PEOPLE Member of the Surbana Jurong Group	GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd.	CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED.	PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE	NOTES: 1. ALL DRESING ARE IN MULTIFIERS AND LIFERS AND LIFERS AND INTERIMINATION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND FOLVANTION CODE 2013. 1. BERNONS ARE IN MULTIFIER AND MURDIFIER AND AND AND AND MURDIFIER AND	



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TITLE:- CONCEPTUAL GENERAL ARRANGEMENT DRAWING FOR CANAL BR.NO. 068 1 x 5 x 5.4m + 1 x 12.2m + 1 x 5 x 5.4m PSC U SLAB CHI 127 DRG. NO. GC-HRIDC-C4-DRW-BRD-GAD-01058_A2 SHEET NO. GC-HRIDC-C4-DRW-BRD-GAD-01058_A2 10F 1 SCALE : ISSUE DATE REVISED DATE AS SHOWN 07-11-2022 10-01-2023	CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd. FITES Limited in consortium with SMEC International Pty. Ltd. HE INFRASTRUCTURE PEOPLE Member of the Surbana Jurong Group	PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASACTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE	 GCHRIDCSK/GENOTS. GOLHERDCSK/GENOTS. BOULDER FILINIX & SUBSTRUCTURE & FOUNDATION & SUBSTRUCTURE CODE CLAUSE. FOR FILINIX & SUBSTRUCTURE & FOUNDATION & SUBSTRUCTURE CODE CLAUSE. FORM DIA WEEP HOLES TO BE PROVIDED @ IONO CCH HORZ, AND 1000 MM CCC WERTCALTY ABOVE LOWEST WATER LEVEL IN RETURN WALL AS PER SUB STRUCTURE CODE CLAUSE. ALL RCC SUBFACES COMING IN CONTACT WITH SOIL SHOLD BE PAINTED WITH BITUNEN OR COAL TAR OF APPROVED QUALITY @ 1.44 KGISOM CONFORMING TO IS:3117. CURRIG SHALL BE DONE AS PER CLAUSE NO & OF IRS CONCRETE BRIDGE CODE. SAFETY & PROTECTION OF THE PROPOSED WORK IS TO BE ENSURED BY THE CONTRACTOR AS PER PARA 280 OF IRPOWN WITH UPDATED CORRECTION SLIPS OF 2011-12. CORRECTION SUBSTRUCTURE SIDS (10211 / 0211/2). THE SPECIFICATIONS FOR THE PRC U SLAB SHALL BE IN ACCORDANCE WITH BS CONCRETT BRIDGE ECONTRACTOR SPECT PARA 280 OF IRPOWN WITH UPDATED TO CORRECTION SLIPS OF 2011-12. CONCRETING SHALL BE DONE IN ACCORDANCE WITH IS CONCRET BRIDGE DETAILS LIKE. DL. INSPECTION STEPS PAINTINGS ETC SHOULD BE RECUTION. BRIDGE EDTAILS LIKE, DL. INSPECTION STEPS PAINTINGS ETC SHOULD BE FORE DEVELOPMENT CORPORATION LIMITED (HRIDC) AND EXCLUSIVE USE OF HRIDC. SCIENTION. BRADK CENNANT, SUFTABLE REPORETTY OF HARYANA RALL INFRASTRUCTURE DESIGN RECOUREMENT SUTTABLE GROUND IMPROVEMENT SHALL BE CARRIED OUT AS PER DETAILS REFER SEPARATE SKETCH NO. BEANNIG CARACITION SOIL SHALL BE ENSURED AS PER DETAILED DESIGN REQUIREMENT AND CONFIRMED THE EXISTING UNED TRANSITION SYSTEM YO BE BOOKED APPROACHES SHALL BE TANNED APPORTAN AND THE BOX. BEANNIG CARACITION SERVET AND CONFIRMENT THE EXISTING UNED CANALDRAN AND THE BOX. BEANNIG CARACITION SEPART SKETCH NO. GC-HRIDC-SK-GEN-011. SA PER REDSO REPORT NO. GER-SOTTANISTION SYSTEM ON APPROACHES OF AS PER DETAILS REFER SKETCH NO. GC-HRIDC-SK-GEN-019. 	ALLRCA AND CONVORTS SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION LAID DOWN IN IRS CONCRETE BRIDGE CODE: THE GRADE OF CONCRETE) FOR ABUTMENT, DIRT'R RETURN WALL WEARING COURSE(WC)M35 ii) FOR ABUTMENT, DIRT'R RETURN WALL WEARING COURSE(WC)M35 iii) FOR LEVELING COURSE ALL CONCRETE WORK SHALL BE MECHANCALLY MIXED AND VIBRATED. MIX DESIGN SHALL BE APPROVED BY FIGHTMERER. IN CHARGE. HIGH YIELD STRENGTH DEFORMED BARS OF GRADE F-6-500D CONFORMING TO IS: 776-2008 SHALL BE WEELFORMATION LEVEL AND RAIL LEVEL & ALIGNMENT SHALL BE LEVEL RE REINFORCEMENT. BED LEVEL & ROAD LEVEL, FORMATION LEVEL AND RAIL LEVEL & ALIGNMENT SHALL BE WEENHED BY THE ENGINEER AT SITE BEFORE ALIGNMENT SHALL BE WEIGHNEEF BARK UP TO 30M BOTH SIDES ON APREDACHES OF BRIDGE SHALL BE DONE AS PER SKETCH NO.	NOTES: 1. AL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER 2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE FOLLOWER 3. DESIGN CRITERIA 4. IN RESUDE FULCE 2014. 5. SIZE & TYPE OF FOUNDATION - MODERATE. 5. SIZE & TYPE OF FOUNDAL DIMENSIONS AND SIZES ARE INDICATIVE AND THESE MAY VARY DURING DEFICIAL DESIGN.



PROPOSED RUB NO. 059 2 x 12.2m PSC U SLAB CH: 16727 DRG. NO. GC-HRIDC-C4-DRW-BRD-GAD-01059_A2 Y 10F 1 SCALE : AS SHOWN 07-11-2022 10-01-2023	CLENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd. THE NERASTRUCTURE PEOPLE Member of the Sarbana Jurong Group TITLE:- CONCEPTUAL GENERAL ARRANGEMENT DRAWING	14. BOUDER FILLING REFURE VALLWING WALL SHALL BE AS PER CL.7.5 OF 15. BACK FILL BEHIND REFURE VALLWING WALL SHALL BE AS PER CL.7.5 OF 15. BACK FILL BEND REFURE VALLWING WALL SHALL BE AS PER CL.7.5 OF 15. SALE SUBSTRUCTURE CODE CLANSET 5. 17. ALL RCC SURFACES COMMON IN CONTACT WITH SOL, SHOULD BE PANTED 18. ALL RCC SURFACES COMMON IN CONTACT WITH SOL, SHOULD BE PANTER 19. ALL RCC SURFACES COMMON IN CONTACT WITH SOL, SHOULD BE PANTER 19. ALL RCC SURFACES COMMON IN CONTACT WITH SOL, SHOULD BE PANTER 10. CONCRETING OF THE PROPORED WORK IS TO BE ENSURED 19. ALL RCC SURFACES OF THE PSOL SLAB SHALL BE IN ACCORDANCE 19. CONCRETING SHALL BE DONEIN ACCORDANCE WITH IS DECONDANCE 19. THE SPECIPATIONS FOR THE PSOL SURJ 10.2011 AND 102817. 20. THE SPECIPATIONS FOR THE PSOL SOLUTION STEPS PANTINGS ETC SHOULD BE 10. CONCRETING SHALL BE DONEIN ACCORDANCE WITH IS DECONDANCE 20. THE SPECIPATIONS IN PROPERTY OF HARVANA PALL INFRASTRUCTION. 21. EDONGE DETAILS LIKE. D.L. INSPECTION STEPS PANTINGS ETC SHOULD BE 22. FOLLOWED DETAILS LIKE. D.L. INSPECTION STEPS PANTINGS ETC SHOULD BE 23. FOR DEFINIT CORPORATION LIMITED (HRIDC) AND EXCLUSIVE USE OF 24. EMENDER OF DETAILS SHOLE DE ENSURED AS PER BEDEMENT 25. FOR TOE WALL DETAILS REFER SEPARATE SKETCH NO. 25. FOR TOE WALL DE ADORTED ON BRODE APPROACHES SHALL BE 27. TRANSITION SYSTEM TO CONFIRMENT SHALL BE CARRIED OUT AS PER 27. TRANSITION SYSTEM TO DE FAULTED TESTING. 27. TRANSITION SYSTEM TO DE ADORTED ON BRODE APPROACHES SHALL BE 27. FOR WALLENT, GROUND IMPROVEMENT SHALL BE CARRIED OUT AS PER 27. TRANSITION SYSTEM TO DE FAULTED THE OND APPROACHES 27. FOR DEFINE ON CHERDER APPROACHES SHALLED 28. FORDER IN GROUND LEVEL 29. FORDER TRUC ON FROME APPROACHES 29. FOR DETAILS REFER SKETCH NO. GC-HRIDC-SK-GENATIS. 20. FERDER TRUC ON FROM ANTON LEVEL 21. FILE (HRIGHEST FLOOD LEVEL 22. FORD OF FOUNDATION 23. FORDER TRUC ON FROM APPROACHES APPROACHES 24. FORD OND LEVEL 25. FOR DETAILS TRUC ON FROM APPROACHES 25. FOR DETAILS TRUC ON FROM APPROACHES 26. FORD OND DE FORMATION LEVEL 27. TRANSIT ON STE	NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER 2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE 5. DESIGN CRITERA 3. DESIGN CRITERA 3. DESIGN CRITERA 4. IN RS BINDCE RULES 20:4. 5. SUBCE RULES 20:4. 6. SUBCE RULES 20:4. 7. THE STRUCTURAL DIMENSIONS AND SIZES ARE INDICATIVE AND THESE 8. SUBCE RULES DESIGN. 5. SIZE & TYPE OF FOUNDATION SHOW IS TENTATIVE AND MAY CHANGE 9. FOR DURING DEFILE DESIGN. 5. SIZE & TYPE OF FOUNDATION SHOW IS TENTATIVE AND MAY CHANGE 9. FOR ABUTMENT DESIGN. 4. LIRC AND CC WORKS SHALL BE DONE IN ACCORDANCE WITH 5. SIZE & TYPE OF FOUNDATION SHOW IS TENTATIVE AND MAY CHANGE 9. FOR ABUTMENT AND DOWN IN TENTATIVE AND MAY CHANGE 9. FOR ABUTMENT DESIGN. 4. LIRC AND CC WORKS SHALL BE DONE IN ACCORDANCE WITH 5. ALL RCC AND CC WORKS SHALL BE DONE IN ACCORDANCE MITH 5. ALL RCC AND CC WORKS SHALL BE DONE IN ACCORDANCE MITH 5. ALL RCC AND CC WORKS SHALL BE DONE IN ACCORDANCE MITH 5. DIFOR LEVELING COURSETE 9. FOR ABUTMENT DIFT & RETURN WALLM35 9. FOR EVELING COURSE FENDERSENT. 10. SIZE AND LEVEL FORMATION LEVEL AND VIBRATED. 8. MIX DESIGN SHALL BE MECHANICALLY MIXED AND VIBRATED. 8. MIX DESIGN SHALL BE MECHANICALLY MAXED AND VIBRATED. 8. ALL CONCRETE WORK SHALL BE MECHANICALLY MAXED AND VIBRATED. 8. ALL SINGET WORK SHALL BE MECHANICALLY AND RAUL LEVEL AND VIBRATED. 8. MIX DESIGN SHALL BE MECHANICALLY AND RAUL LEVEL AND VIBRATED. 8. ALL SINGER WORK SHALL BE MECHANICALLY AND RAUL LEVEL AND VIBRATED. 8. ALL SINGER WORK SHALL BE MECHANICALLY AND REFORE 11. ANGLE OF INTERNAL TREATOR DESIGN AND VIBRATED. 9. FOR LEVELING COURSES OF BANK UP TO 30M BOTH SIDES ON 9. AND DESIGN SUCCES OF BANK UP TO 30M BOTH SIDES ON 9. SECUTION WORK ON SLOPES OF BANK UP TO 30M BOTH SIDES ON 9. CORPORECTION WORK ON SLOPES OF BANK UP TO 30M BOTH SIDES ON 9. CORPORECTION WORK ON SLOPES OF BANK UP TO 30M BOTH SIDES ON 9. CORPORECTION WORK ON SLOPES OF BANK UP TO 30M BOTH SIDES ON 9. CORPORETION OF MORE CON SLOPES OF BANK UP TO 30M BOTH SIDES ON 9. CO



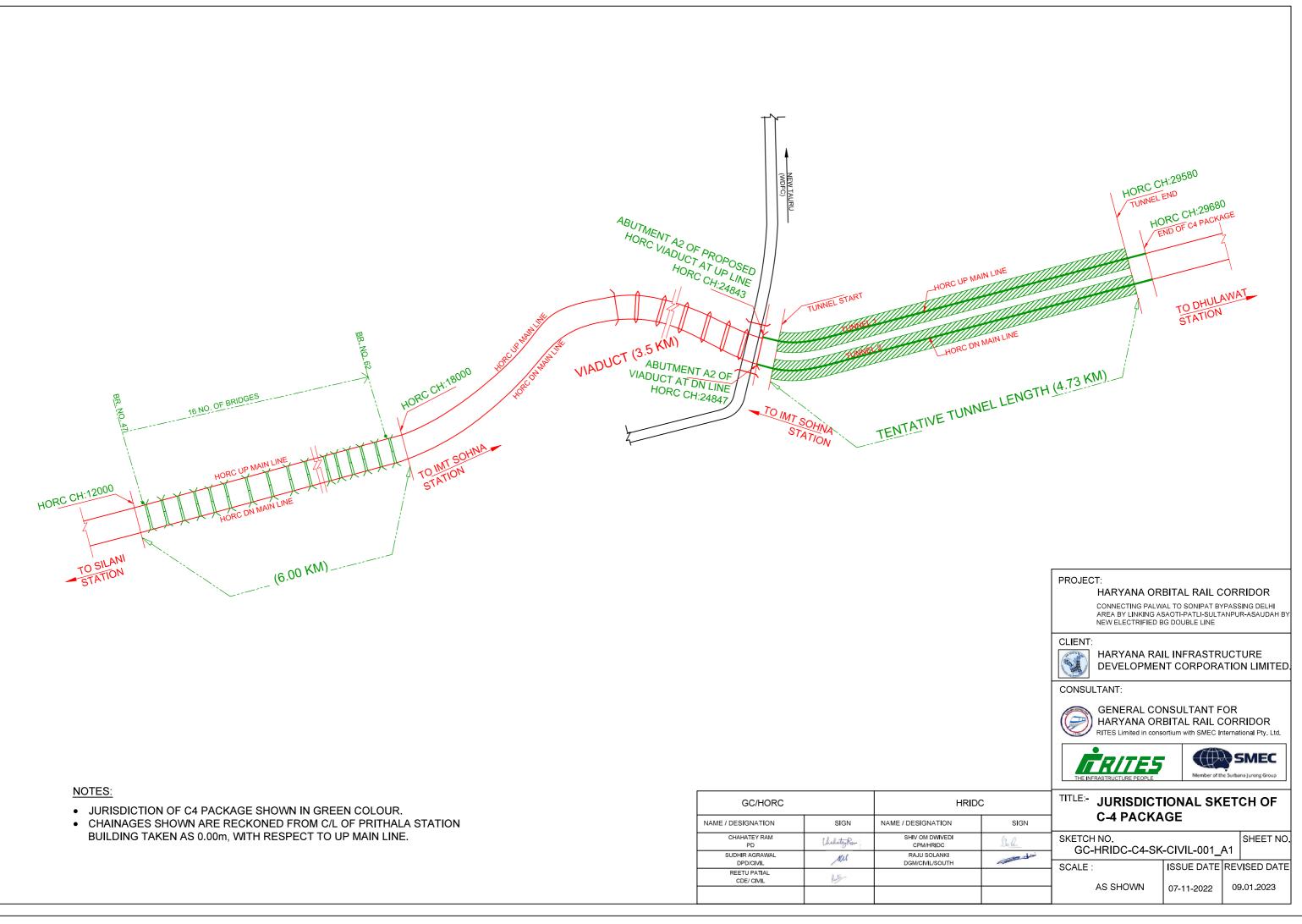
			ALE 1:50	PSCU SLAB	
TITLE:- CONCEPTUAL GENERAL ARRANGEMENT DRAWING PROPOSED CANAL BR. NO. 061 1x5.4+1x12.2+1x5.5.4m PSC U SLAB CH: 16917 DRG. NO. SHEET NO. GC-HRIDC-C4-DRW-BRD-GAD-01061_A2 SHEET NO. SCALE : ISSUE DATE AS SHOWN 07-11-2022 10-01-2023	HARYANA RAIL INFRASTRUCTU DEVELOPMENT CORPORATION ULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORR RIFES Limited in consortium with SMEC Internatio	PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALVAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE	 SKFETY & PROTECTION OF THE PROPOSED WORK IS TO BE ENSURED BY THE CONTRACTOR AS PER PARA 320 OF IRPMM WITH UPDATED CORRECTION SUPS OF 2011-12. THE SPECIFICATIONS FOR THE PSC U SLAB SHALL BE IN ACCORDANCE WITH RSDO DRG.NO'S : RDS (1021:1021/1 AN 1028/12. CONCRETING SHALL BE DONE IN ACCORDANCE WITH IRS CONCRETE BRUGE CODE WITH 20MM MAXIMUM SIZE ACGREGATE. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED AT SITE BEFORE EXECUTION. BRUGE CODE WITH 20MM MAXIMUM SIZE ACGREGATE. FOLGOETALLS LIKE, DL. INSPECTION STEPS PAINTINGS ETC SHOULD BE FOLLOWED AS PER BRUGE MANUAL, DURING CONSTRUCTION. FINS DRAWING IS PROPERTY OF HARDCI AND EXCLUSIVE USE OF DEVELOPMENT CORPORATION LIMITED (HRIDC) AND EXCLUSIVE USE OF HRIDC. FOR TOG WALL DETAILS REFER SEPARATE SKETCH NO. GEARING CAPACITY OF SOL SHALL BE ENSURED AS PER DETAILED DESIGN 	 EXECUTION OF WORK. ANGLE OF INTERNUL FROTION OF BACK FILL SHALL NOT BE LESS THAN 35. PROTECTION WORK ON SLOPES OF BANK UP TO 30M.BOTH SIDES ON APPROACHES OF BRIDGE SHALL BE DONE AS PER SKETCH NO. GCHRIDG-SK-GENOLS BOULDER FLLING & BOULDER PACKING BEHIND RETURN WALL/NING WALL TO BE DONE AS PERR IS FOUNDATION & SUBSTRUCTURE CODE CL.7.5.2. BACK FILL BEHIND RETURN WALL/MING WALL SHALL BE AS PER CL.7.5 OF IRS SIRIDGE SUBSTRUCTURE & FOUNDATION CODE 2013. FOR STRUCTURE E TO LENATION EXCELS TO A REPROVIDED @1000 CC: HORZ. AND 1000 MM CC VERTICALLY ABOVE LOWEST WATER LEVEL IN RETURN WALL AS PER IPS SUB STRUCTURE E 7.6. ALL RCC SURFACES COMING IN CONTACT WITH SOLL SHOULD BE PAINTED WITH BITUMEN OR COAL TAR OF APPROVED QUALITY @ 1.464 KGISOM-CONFORMING TO IS-3117. CURING SHALL BE DONE AS PER CLAUSE NO 8.4 OF IPS CONCRETE BRIDGE CODE 	NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE FOLLOWER 2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE FOLLOWER 3. DESIGN CRITERA II) RES BRUGE BUBSTRUCTURE AND FOUNDATION CODE 2013. 10) IRS BRUGE BUBSTRUCTURE COLONDATION CODE 2014. 11) IRS CONCETE BRUGE CODE 2014. 12) IRS CONCETE BRUGE CODE 2014. 13) IRS CONCETE BRUGE CODE 2014. 14) IRS SENDER ECONDITION - MODERATE. 14) IS 2811 PART-I SECTION 2. 15) STANDARD OF LOADING - SUPER STRUCTURE-251 (RDSO STANDARD) 8. SERVETURE 2.51-7008 LOADING. 15) STANDARD OF LOADING - SUPER STRUCTURE AND THESE 16) STRUCTUREAL DIMENSIONS AND SIZES ARE INDICATIVE AND THESE 17) SEE A TYPE OF FOUNDATION SHOW IS TENTATIVE AND MAY CHANGE 18) SERVED OF CONCERTE IN CORRECT E BRIDGE CODE. 19) FOR ABUTMENT, DIRT'R A RETURN WALL——M35 10) FOR ABUTMENT, DIRT'R A RETURN WALL—M35 11) FOR LEVELING COURSE 11) FOR LEVELING COURSES 12) FOR LEVELING COURSES 13) FOR LEVEL NOWNER SHALL BE AFFROVED BENNON DENATED. 14) FOR LEVEL WING COURSES 15) FOR LEVEL WING COURSES 16) FOR LEVEL WING COURSES <tr< th=""></tr<>

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		SCALE 1:100	BOF: 192.579		PROP. R.L. 200.551 PROP. F.L. 199.839 HOP. F.L. 1				COF PROP. BRIDDER		CONTRACT SOUNDATI TOWARDS SOUNDATI PRODE FL. 2008 TO FRADE BL. NOSA T CH: 17800 FD FL. 2008 TO FRADE BL. NOSA T CH: 17800 FD FL. 2008 TO FRADE BL. NOSA T CH: 17800 FD FL. 2008 TO FLAD TO TOWARDS TO FRADE NOSA T CH: 17800 TO FLAD TO TOWARDS TO FRADE NOSA T CH: 17800 FD FLAD TO TOWARDS TO FLAD TO TO FLAD TO TO FLAD TO TOWARDS TO FLAD TO TO FLAD TO TO TO FLAD TO TO TO FLAD TO TO TO FLAD TO TO TO TO TO TO TO TO TO TO
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	DGM/CVUL/SOUTH	SHIV OM DWVEDI CPM/HRIDC	NAME / DESIGNATION	HRIDC					C OF DN TRACK) _W	Cri Or BRI OC Cri Tadomino Cri Tadomino Cri Tadomino Cri Tadomino Cri Cri Tadomino Cri Cri Tadomino Cri Cri Tadomino Cri Cri Cri Tadomino Cri Cri Cri Cri Cri Cri Cri Cri Cri Cri
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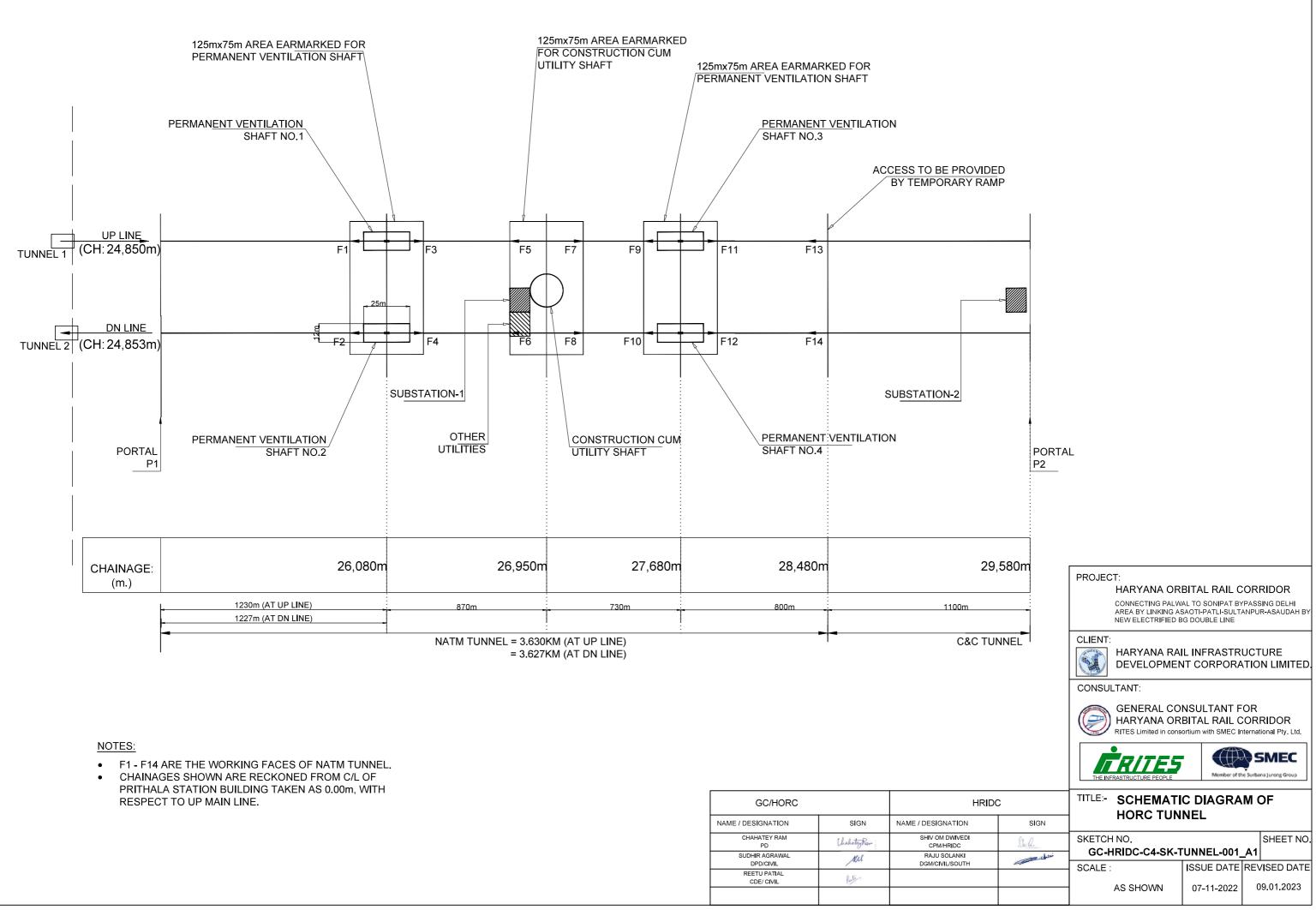
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TITLE:- CONCEPTUAL GE PF 1 × 12. DRG. NO. GC-HRIDC-C4-DRW- SCALE : AS SHOWN	CLIENT: HARYANA RAIL DEVELOPMENT CONSULTANT: GENERAL CONS HARYANA ORBI RITES Limited in consorti		 EXECUTION OF WORK. ANGLE OF INTERNAL FRICTION OF BACK FILL SHALL NO ANGLE OF INTERNAL FRICTION OF BACK FILL SHALL NO APPROACHES OF BRIDGE SHALL BE DONE AS PER SKE APPROACHES OF BRIDGE SHALL BE DONE AS PER SKE BOULDER FILLING & BOULDER PACKING BEHIND RETURTUR BACK FILL BEHIND RETURTURE & FOUNDATION CODE 201 From DIA WEEP HOLES TO BE PROVIDED @1000 CC HE ICS SUB STRUCTURE CODE CLAUSE T. BACK FILL BEHIND RETURTING TO COPE LOWEST TWATTER LEVEL IN RE IRS SUB STRUCTURE CODE CLAUSE T. COVERRINAL TO IS-2117. CONFORMING TO IS-2117. CONFORMING TO IS-2117. CONFORMING TO IS-2117. CORRECTION SHALL BE DONE IA SPER PARA 280 OF IRPMIN WITH CONFORMING SHALL BE DONE IN ACCORDANCE WITH INFL CONTRACTION STEPS ON USA SHALL BE IN WITH RUNG SO FOR THE PSC U SLAS SHALL BE IN WITH RUNG SHALL BE DONE IN ACCORDANCE WITH INFL SOCIDE WITH 20MM MAXIMUM SIZE AGGREGATE ACCUTION. THE SPECIFICATIONS FOR THE PSC U SLAS SHALL BE IN WITH RUSG DEFAUST SHOLL BE DONE IN ACCORDANCE WITH INFL SOCIDE WITH 20MM MAXIMUM SIZE AGGREGATE ACCUTION. THE SPECIFICATIONS AND LEVELS SHOLLD. DE VERIFIED AT ALL DEVELOPMENT CORPORATION UMITED (SHOLD CONST FULDORED EFTALLS LIKE. D. INSPECTION STEPS PAININ 25. FOR DEVAUL DETALS REFER SEPARATE SKETCH NO. S GC-HRIDC-SK-GENAUT 26. HARDOS OR-SOCITON UMITED (HADC) AND D FINDC. FRANSITION SYSTEM TO DE ADOPTED ON BRIDGE APPIN AS PER DOS REPORTION ON STRE OF BRIDGEES). FOR DETALS REFER SKETCH NO. GC-HI 	NOTES: 1. ALL DMENSIONS ARE NOT TO BE DMENSIONS ARE NOT TO BE FOLLOWED 3. DESIGN ORTERIA I) IRS BRIDGE RULES 2014. 3. DESIGN ORTERIA II) IRS BRIDGE RULES 2014. 4. THE SRIDGE RULES 2014. 9. IS 201 PART-1 SECTION. 9. IS 201 STANDARD OF LOADING. 10. SUB STRUCTURAL DIMENSION. 10. SELE & TYPE OF FOUNDATION IND DOWNN 10. SELEVEL ATON LAD DOWNN IND 10. FOR ABUTMENT, DIRT'S ARA 11. FOR LEVELING COURSEFE 12. ALL ROC AND CONDRATION INT 13. FOR LEVELING COURSEFE 14. MIX DESIGN SHALL BE APPRO 15. FOR LEVELING COURSEFE 16. MIX DESIGN SHALL BE APPRO 17. HED LEVEL & ROAD LEVELFORT 18. MIX DESIGN SHALL BE APPRO 19. FOR LEVEL & ROAD LEVELFORT 10. BED LEVEL & ROAD LEVELFORT <
GENERAL ARRANGEMENT DRAWING PROPOSED RUB NO. 062 12.2m PSC U SLAB CH: 17600 SHEET NO 10F 1 INVEBRD-GAD-01062_A2 SHEET NO 10F 1 ISSUE DATE REVISED DATE 07-11-2022 10-01-2023	RAIL INFRASTRUCTURE MENT CORPORATION LIMITE CONSULTANT FOR ORBITAL RAIL CORRIDOR consortium with SMEC International Pty. Ltd.	D PROPOSED RALLEVEL PROPOSED FORMATION LEVEL HEIGHEST FLOOD LEVEL TOP OF FOUNDATION BOTTOM OF FOUNDATION BOTTOM OF FOUNDATION T: T: T: T: HARYANA ORBITAL RAIL CORRIDOR HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH NEW ELECTRIFIED BG DOUBLE LINE	SUCCUTION OF WORK. ANALE OF INTERNAL FRICTION OF BACK FILL SHALL NOT BE LESS THAN 35. ANALE OF INTERNAL FRICTION OF BACK FILL SHALL NOT BE LESS THAN 35. PROTECTION WORK ON SLOPES OF BANK UP TO 30M JOTT SIDES ON APPROACHES OF BRIDGE SHALL BE DONE AS PER SKETCH NO. GC-HRIDC-SK-GEN(1). BOULDER FILLING & BOULDER PACKING BEHIND RETURN WALL TO BE DONE AS PER IRS FOUNDATION & SUBSTRUCTURE CODE CLT. 5.2. BEACK FILL BEHND RETURN WALL MANNE WALL SUBSTRUCTURE CODE CLUSE 7. CURNER SHALL BE DONE AS PER POVIDED @ 1000 CC HORZ. AND 1000 MM CC VERTICALLY ABOVE COMEST WATER LEVEL IN RETURN WALL AS PER RIS SRIDGE SUBSTRUCTURE COE CLUSE 7. AL RCC SUBFACES COMING IN CONTACT WITH SOL SHOULD BE PAINTED CONFORMING TO IS-3117. CURNE SHALL BE DONE AS PER CLAUSE NO 8.4 OF IRS CONCRETE BRIDGE CONFORMING TO IS-3117. CURNE SHALL BE DONE AS PER CLAUSE NO 8.4 OF IRS CONCRETE BRIDGE CONFORMING TO IS-3117. CURNE SHALL BE DONE AS PER CLAUSE NO 8.4 OF IRS CONCRETE BRIDGE CONFORMING TO IS-3117. CURNES SHALL BE DONE AS PER CLAUSE NO 8.4 OF IRS CONCRETE BRIDGE CODE WITH 20MM MAXIMUM SIZE AGGREGATE BRIDGE DEFINIS LIKE. DL. INSPECTION STEPS PAINTINGS ETC SHOULD BE VERLITION SYSTEM TO E. DL. INSPECTION STEPS PAINTINGS ETC SHOULD BE VERLIONAL DE FOR TO US LERSOFTED ON BRIDGE APPROACHES SHALL BE DEVELOPMENT CORPORATION LIMITED (HRIDC) AND EXCLUSIVE USE OF FRIDC-SK-GEN-014. BRIDGE DEFORT NO. GER-SQUTRANSITION SYSTEM ON APPROACHES AS PER ROSO REPORT NO. GER-SQUTRANSITION SYSTEM ON APPROACHES OF BRIDEGES), FOR DETAILS REFER SEPARATE SKETCH NO. GC-HRIDC-SK-GEN-019. STAN BITON SYSTEM TO E.	DTES: ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS TO BE FOLLOWED DESIGN CRITERIA 1) IPS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE 2013. 1) IPS BRIDGE RUEE 2014. 1) IPS BRIDGE RUEE 2014. 1) IPS BRIDGE CODE 2014. 1) IPS BRIDGE CONDETON - MODERATE. 1) IPS BRIDGE CONDETON - SUPER STRUCTURE-25T (RDSO STANDARD) 1) SLBS RUCTURE 2.5.1 - 2000 LOADING. 1) IPS REVUCTURE 2.5.1 - 2000 LOADING. 1) SLBS RUCTURE CONDETON SHOW IN STEES ARE INDICATIVE AND MAY CHANGE MAY VARY DURING DETALLE DESIGN. 1) IPS ADUTING DETALED DESIGN. 2) IPS ADUTING TO REVEALED BE DONE IN ACCORDANCE WITH SECIFICATION LAND DOWN IN ISC CONCRETE BRIDGE CODE. 1) IPS REVELING COURSE. 1) IPS REVELINGTONT & RETURN WALL 1) IPS REVELINGTON THE REVEAD DI ADUTING THE RECHANDALLY IN CHARGE. 1) IPS REVELINGTONT & RETURN WALL 1) IPS REVELINGTON TO REVEAD A

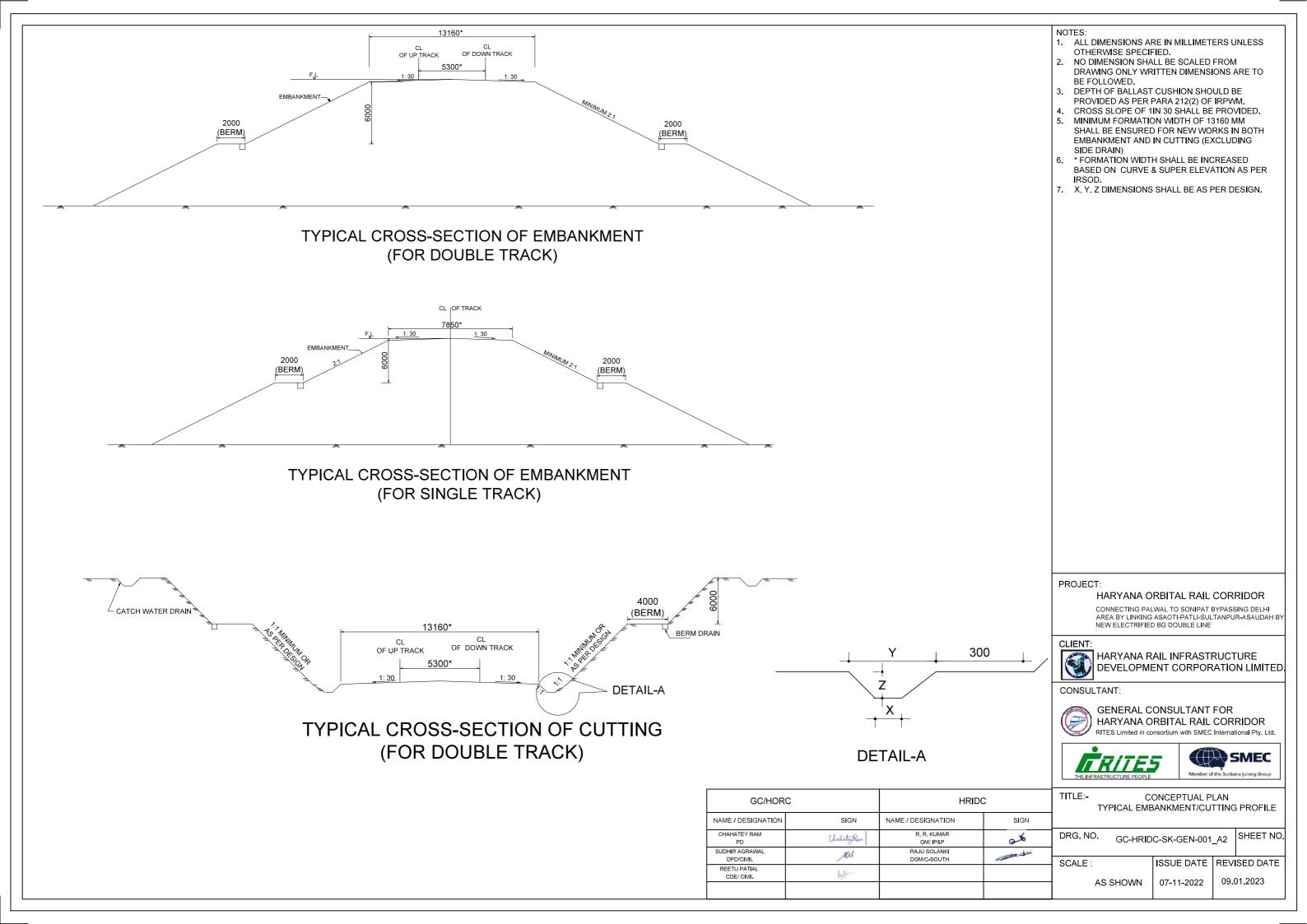
Miscellaneous Drawings (Conceptual Plans)

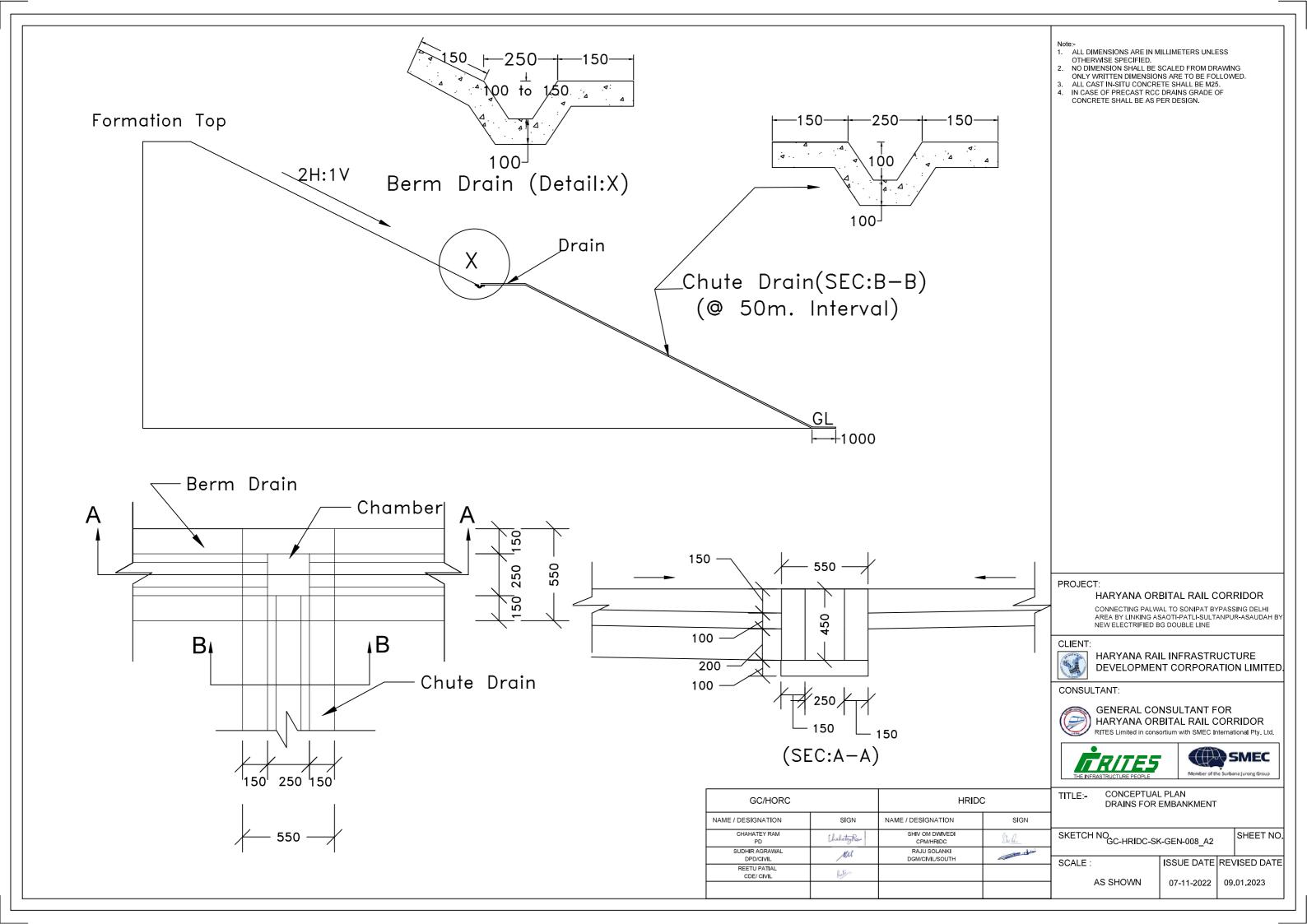


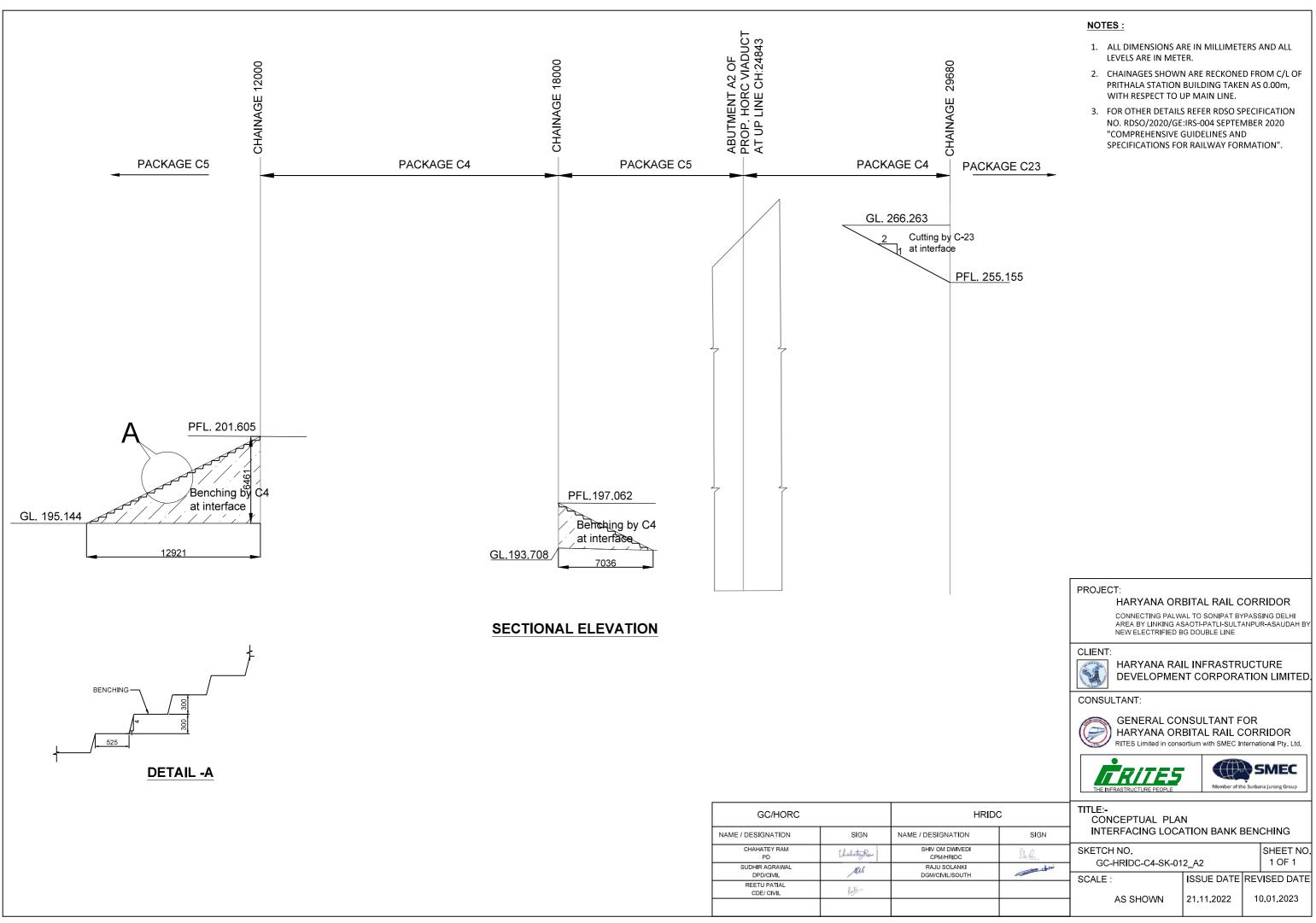
GC/HORC		HRIDO	С
NAME / DESIGNATION	NAME / DESIGNATION SIGN		
CHAHATEY RAM PD	Chahatey Rom	SHIV OM DWIVEDI CPM/HRIDC	
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU SOLANKI DGM/CIVIL/SOUTH	
REETU PATIAL CDE/ CIVIL	fute.		

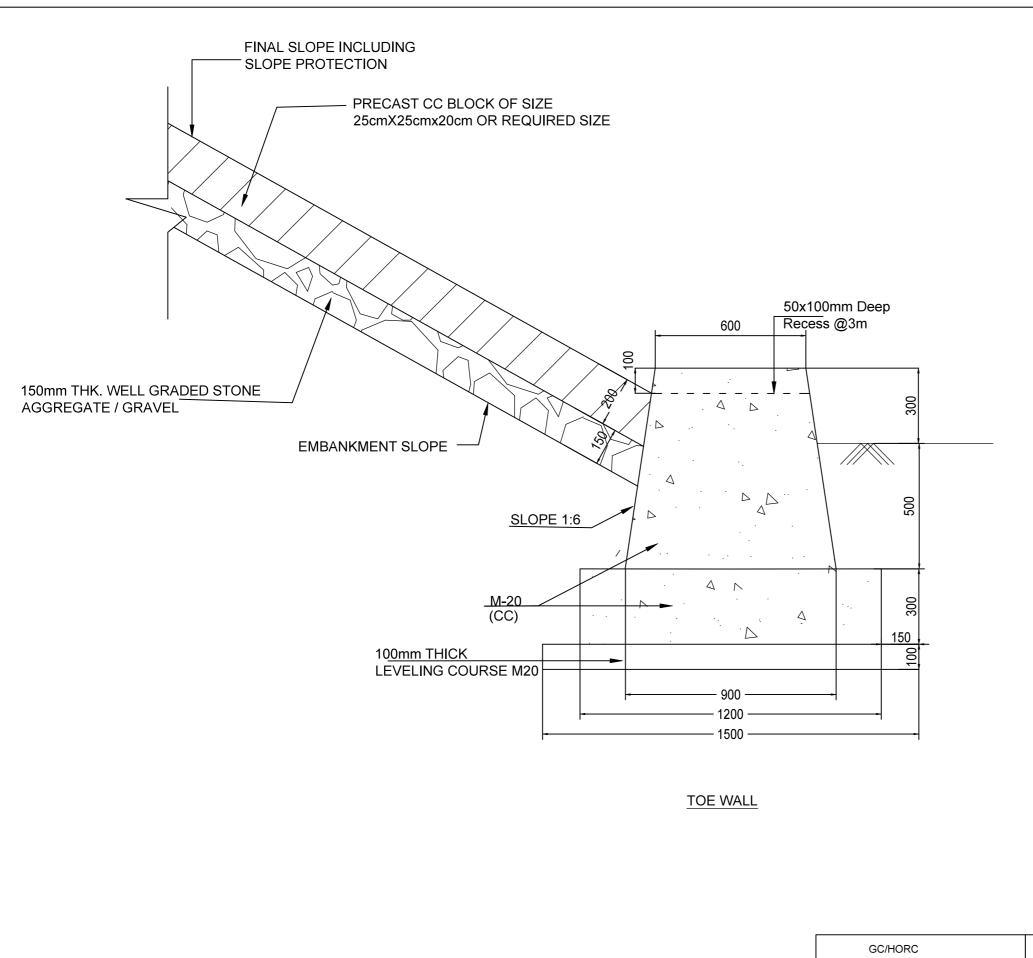


GC/HORC		HRID
NAME / DESIGNATION	SIGN	NAME / DESIGNATION
CHAHATEY RAM PD	Chahatey Ram	SHIV OM DWIVEDI CPM/HRIDC
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU SOLANKI DGM/CIVIL/SOUTH
REETU PATIAL CDE/ CIVIL	fut	



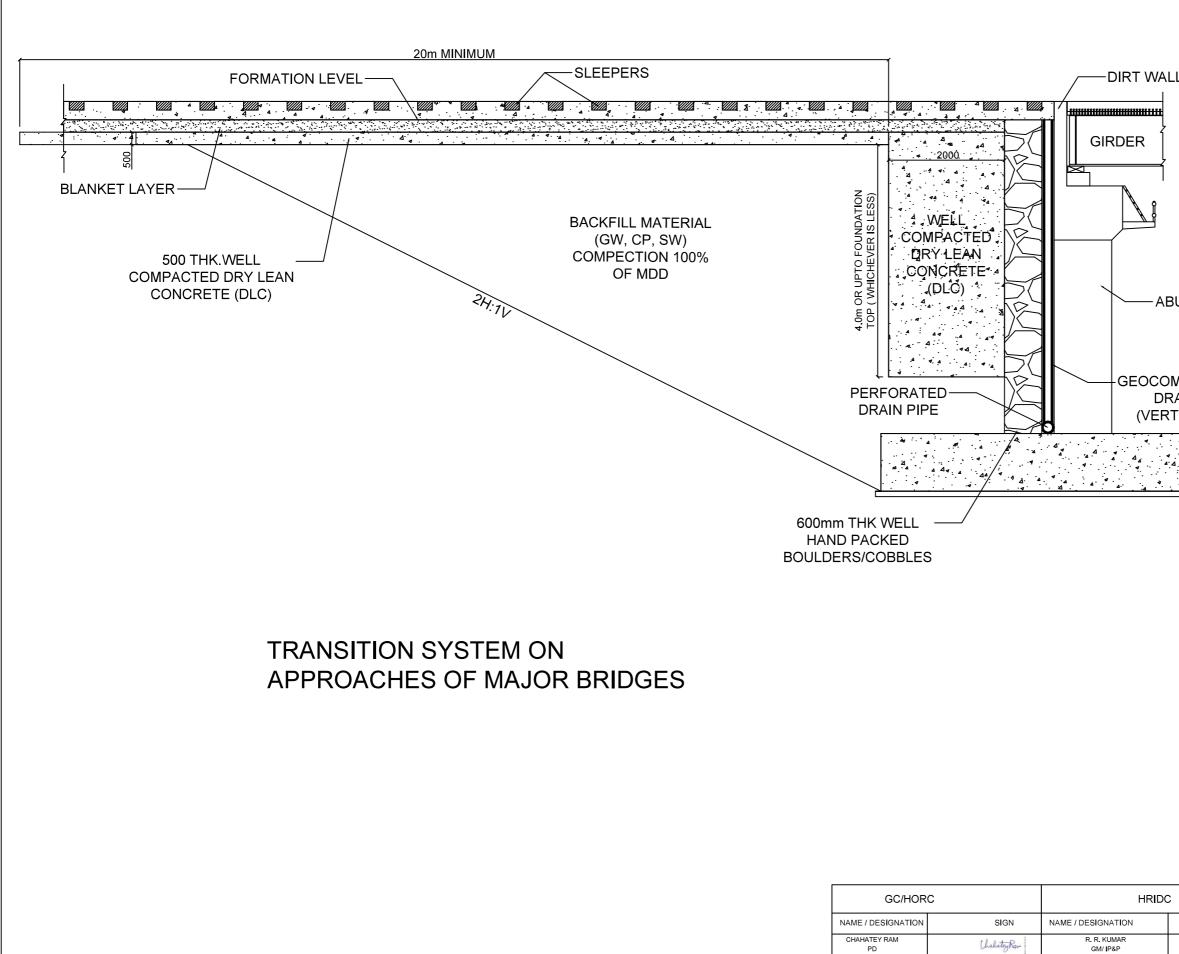






GC/HORC		2
NAME / DESIGNATION SIGN		
haheteyRon	R. R. KUMAR GM/ IP&P	
Mul	RAJU SOLANKI DGM/C-SOUTH	
Rente		
	hahateyRav MU	R. R. KUMAR GM/ IP&P RAJU SOLANKI DGM/C-SOUTH

NOTES:-1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. 2. NO DIMENSION SHALL BE SCALED FROM DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. 3. M-20 GRADE CONCRETE SHALL BE USED FOR TOE WALL. 4. 25MM EXPANSION GAP SHALL BE PROVIDED AT 30m (MAX.) OF LENGTH OF WALL. PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE CLIENT HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR P RITES Limited in consortium with SMEC International Pty. Ltd. SMEC RITES Member of the Surbana Jurong Group TITLE:-CONCEPTUAL PLAN CC TOE WALL SIGN at DRG. NO. SHEET NO. GC-HRIDC-SK-GEN-014_A2 1 OF 1 and when ISSUE DATE REVISED DATE SCALE : AS SHOWN 28.12.2022 09.01.2023



-L	 NOTES: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. NO DIMENSION SHALL BE SCALED FROM DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. THIS DRAWING IS PREPARED BASED UPON REFER RDSO REPORT NO. GE:R-50 DATED JULY-2021 FOR DETAILS THIS REPORT SHALL BE FOLLOWED. GEO-COMPOSITE DRAINS TO BE USED BEHIND BRIDGE ABUTMENT SHALL BE AS PER RDSO/2018/GE:IRS-006, MARCH-2019 AND COMPREHENSIVE GUIDELINE AND SPECIFICATIONS FOR RAILWAY FORMATION. PROVISION IN RETURN WALL SHALL BE KEPT TO TAKE OUT THE DISCHARGE FROM PERFORATED DRAIN PIPE. THIS DRAWING SHALL BE USED FOR MAJOR BRIDGE APPROACHES (DEFINITION OF MAJOR BRIDGE SHALL BE AS PER IRBM).
BUTMENT	
	PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT:
	GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd.
	TITLE:- CONCEPTUAL PLAN FOR TRANSITION SYSTEM OF MAJOR BRIDGE APPROACHES
SIGN	DRG. NO. GC-HRIDC-SK-GEN-019_A1 1 OF 1
17	SCALE : ISSUE DATE REVISED DATE AS SHOWN 28.12.2022 09.01.2023

Chahatey Rom

Mil

Reets .

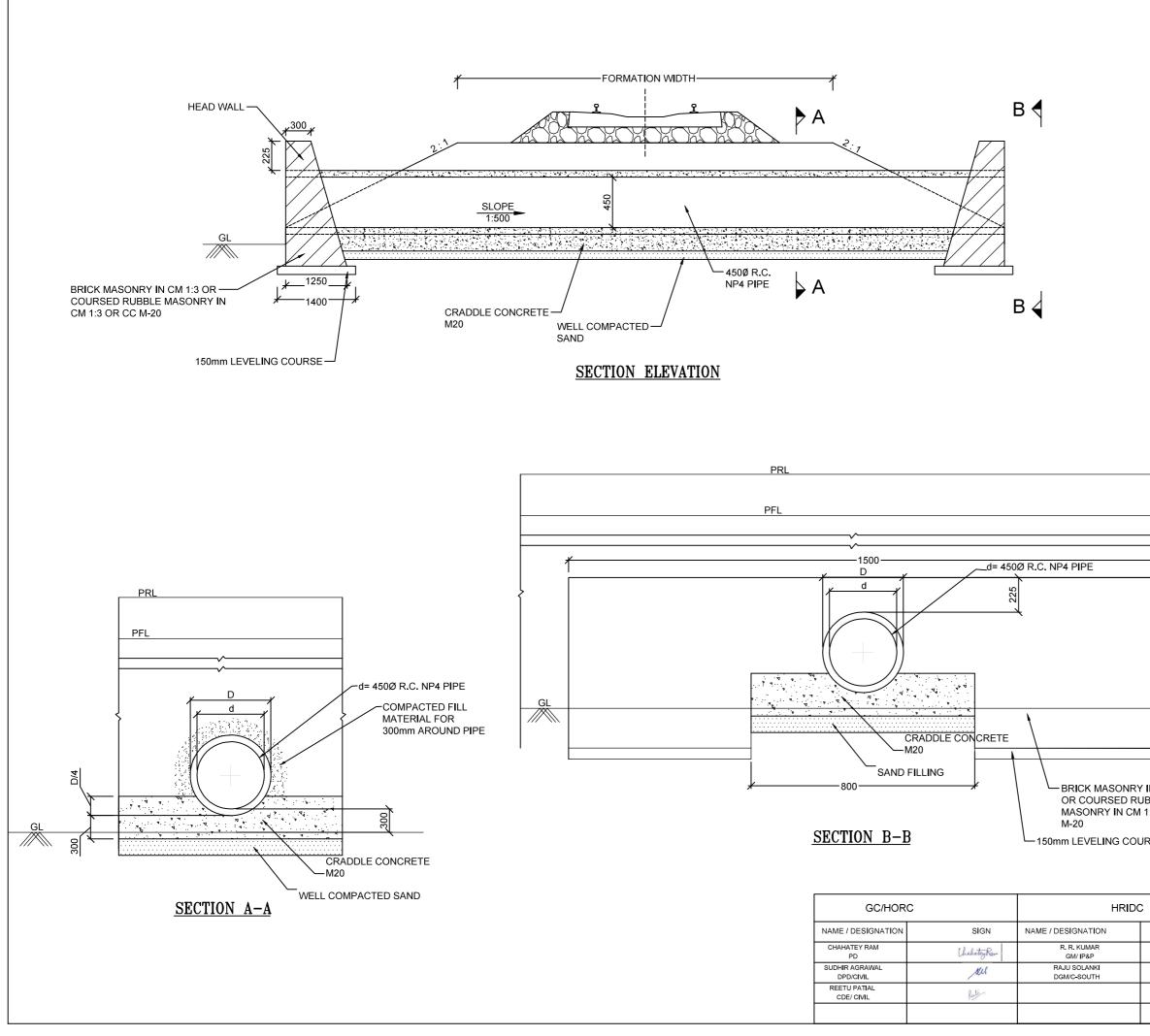
RAJU SOLANKI

DGM/C-SOUTH

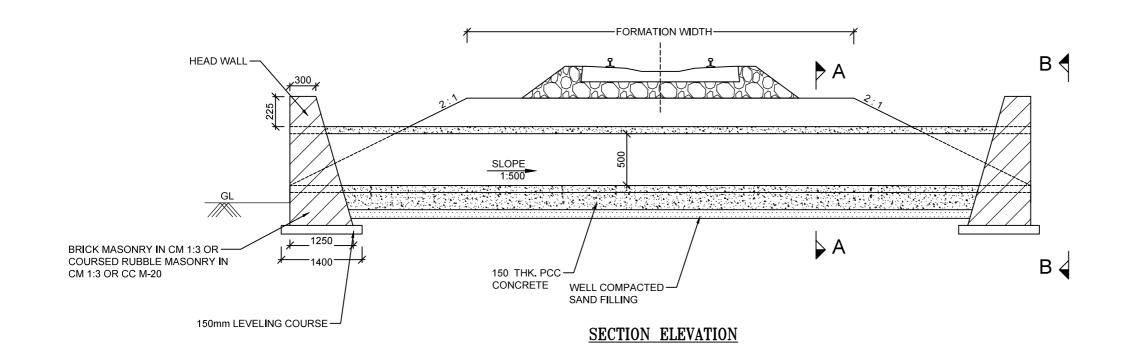
SUDHIR AGRAWAL

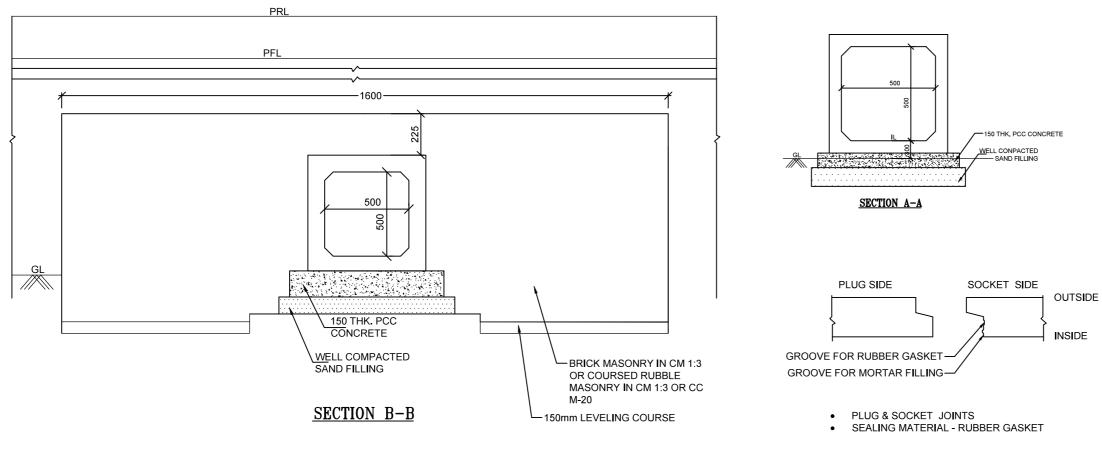
DPD/CIVIL

REETU PATIAL CDE/ CIVIL

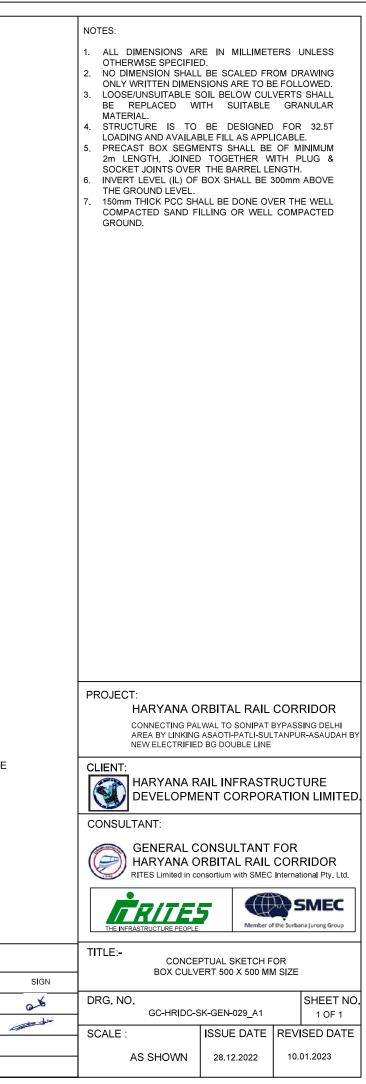


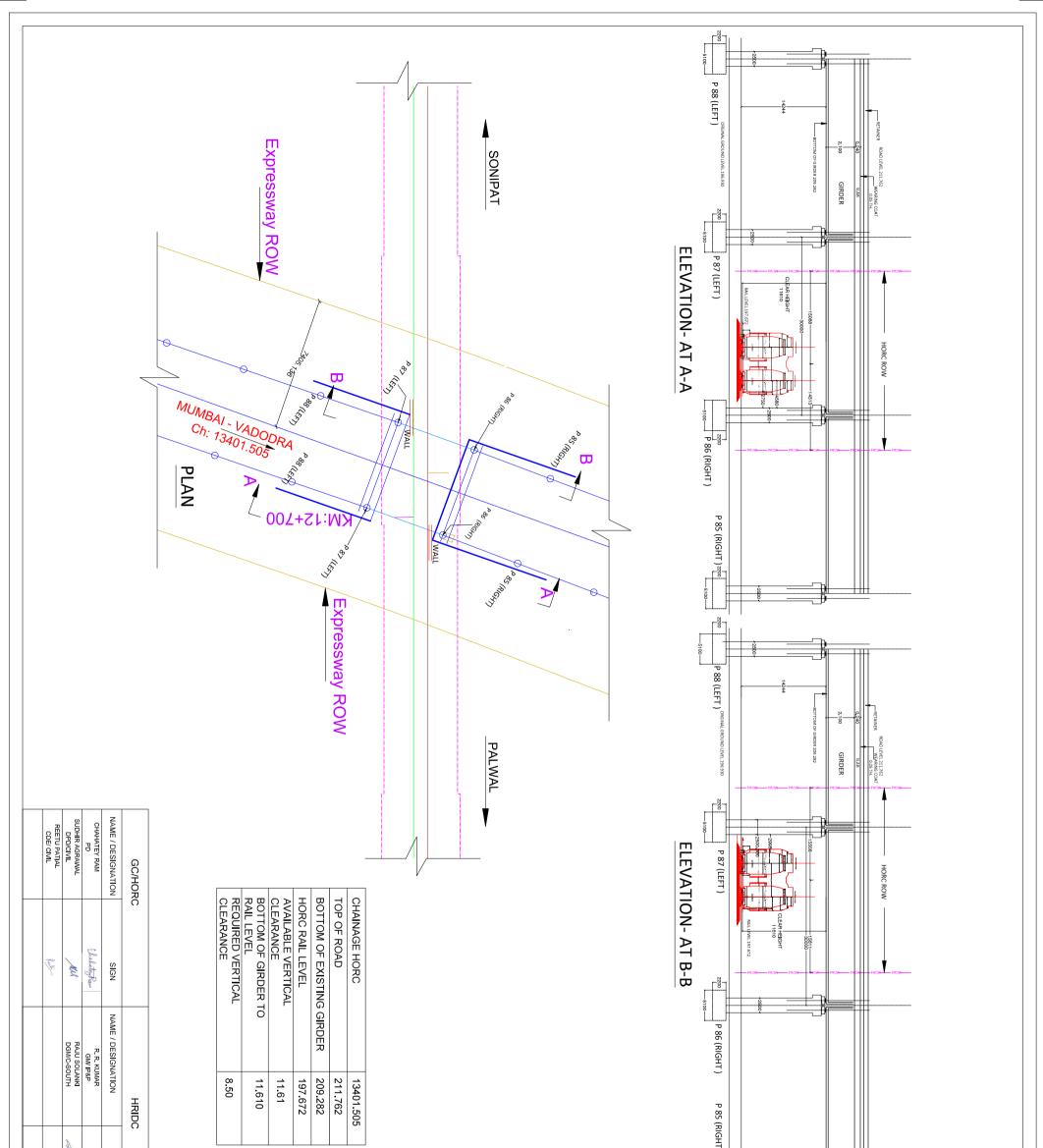
	NOTES
	NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. 2. NO DIMENSION SHALL BE SCALED FROM DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. 3. LOOSE/UNSUITABLE SOIL BELOW CULVERTS SHALL BE REPLACED WITH SUITABLE GRANULAR MATERIAL. 4. LONGITUDINAL SLOPE OF PIPE SHALL BE MINIMUM 1 IN 500. 5. BEDDING CONDITION BELOW NP-04 PIPE SHALL BE AS PER IS:783.
	PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED.
IN CM 1:3 BBLE 1:3 OR CC	CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd.
RSE	THE INFRASTRUCTURE PEOPLE
SIGN	TITLE:- CONCEPTUAL SKETCH FOR NP4 PIPE OF 450mm DIA
at	DRG. NO. GC-HRIDC-SK-GEN-028 A1 SHEET NO.
- due	
	SCALE : ISSUE DATE REVISED DATE AS SHOWN 28.12.2022 10.01.2023



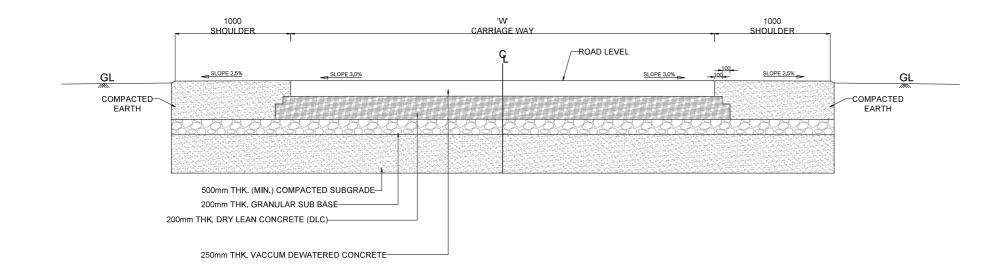


GC/HORC		HRID	
NAME / DESIGNATION	NAME / DESIGNATION SIGN N		
CHAHATEY RAM PD	Chahatey Row	R. R. KUMAR GM/ IP&P	
SUDHIR AGRAWAL DPD/CIVIL	sul	RAJU SOLANKI DGM/C-SOUTH	
REETU PATIAL CDE/ CIVIL	fult		

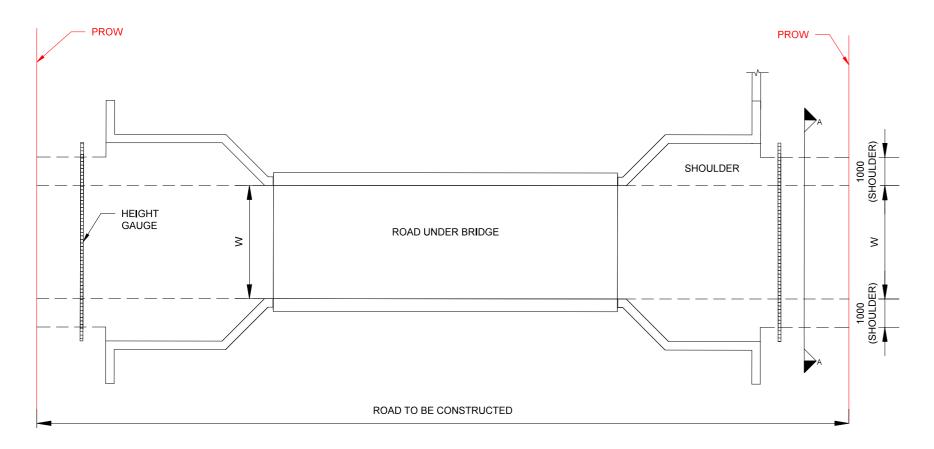




PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONVECTIVE PARTILISULTANTE PRASSING DELITAREA BY LINKING ASAOTI-PATILISULTANPUR-ASAUDAH BY NEW ELECTRIFIED BIG DOUBLE LINE CONSULTANT MARYANA ORBITAL RAIL CORRIDOR CONSULTANT MARYANA ORBITAL RAIL CORRIDORATION DEVELOPMENT CORPORATION MARYANA ORBITAL RAIL CORRIDOR CONSULTANT FILE LINEE In neosonaur with SMEC International Py. Ltd. MARYANA ORBITAL RAIL CORRIDOR INFERS LINING In consortium with SMEC International Py. Ltd. MARYANA ORBITAL RAIL CORRIDOR INFERS LINING IN CONSULTANT FOR INFERS LINING IN CONSULTANT FOR INFERS LINING IN CONSULTANT FOR INFERS LINING IN CONSULTANT EDELOW VADODARA EXPRESSING CONCERTUL CONFIGNATIONAL EXPRESSING INFERSION INFERSION INFERSION CONSULTANT INFERSION INFERSION	NOTES: 1. ALL DIMENSIONS ARE IN MILLINETERS EXCEPT LEVELS WHICH ARE IN METER, 2. EXPRINGE CALL LEVELS, FORMATION LEVEL, GRADES ETC., REFER, LeVEL, FORMATION, 3. EXCEPT THE TABLE CALCINETER AT SITE BEFORE EVENUES ENVEL IN LEVEL TO THE AND COMPANY 4. EXCEPT THE TABLE AND SHALL TAKE NECESSARY PRECANTION TO PREVENT NAMAGE OF SAT CALLE CARE, DANNE EXCENTION OF WORK CONCERNED DETT. SUCH AS 5. STRUCTURA, ARENVERING TIMOR THE REPORSED TRACK SHALL BE ON PAMMED OF 5. STRUCTURA, ARENVERING TIMOR THE REPORSED TRACK SHALL BE ON PAMMED TO THE EXISTING 6. AREQUATE PRECAUTION SHALL BE TAKEN TO ANY OF THE STRUCTURE OF ELEVATED ROAD CUM 1. DESTINGTOR AND DAVID TRAVERST IN MAY OF THE STRUCTURE OF ELEVATED ROAD CUM 5. STRUCTURA, ARENVERING TIMORS THE PROVIDED ANY KIND OF DAMAGE TO THE EXISTING 7. CONSTRUCTION SHALL BET TAKEN TO ANY OF THE STRUCTURE OF ELEVATED ROAD CUM 6. AREQUATE PRECAUTION SHALL BET AREN TO AND ANY KIND OF DAMAGE TO THE EXISTING 7. CONSTRUCTION SHALL BET TAKEN TO ANY OF THE STRUCTURE OF ELEVATED ROAD CUM 8. CONSTRUCTION SHALL BET TAKEN TO AND ANY KIND OF DAMAGE TO THE EXISTING 8. CONSTRUCTION SHALL BET THE DRAIN AFFECTED DUE TO LATING OF NAIL CROSSING BY 8. STIERFORD ONCE OUTLET AT INSAREST CROSS DRAINAGE STRUCTURE TO THE SATISFACTION OF WHAL.

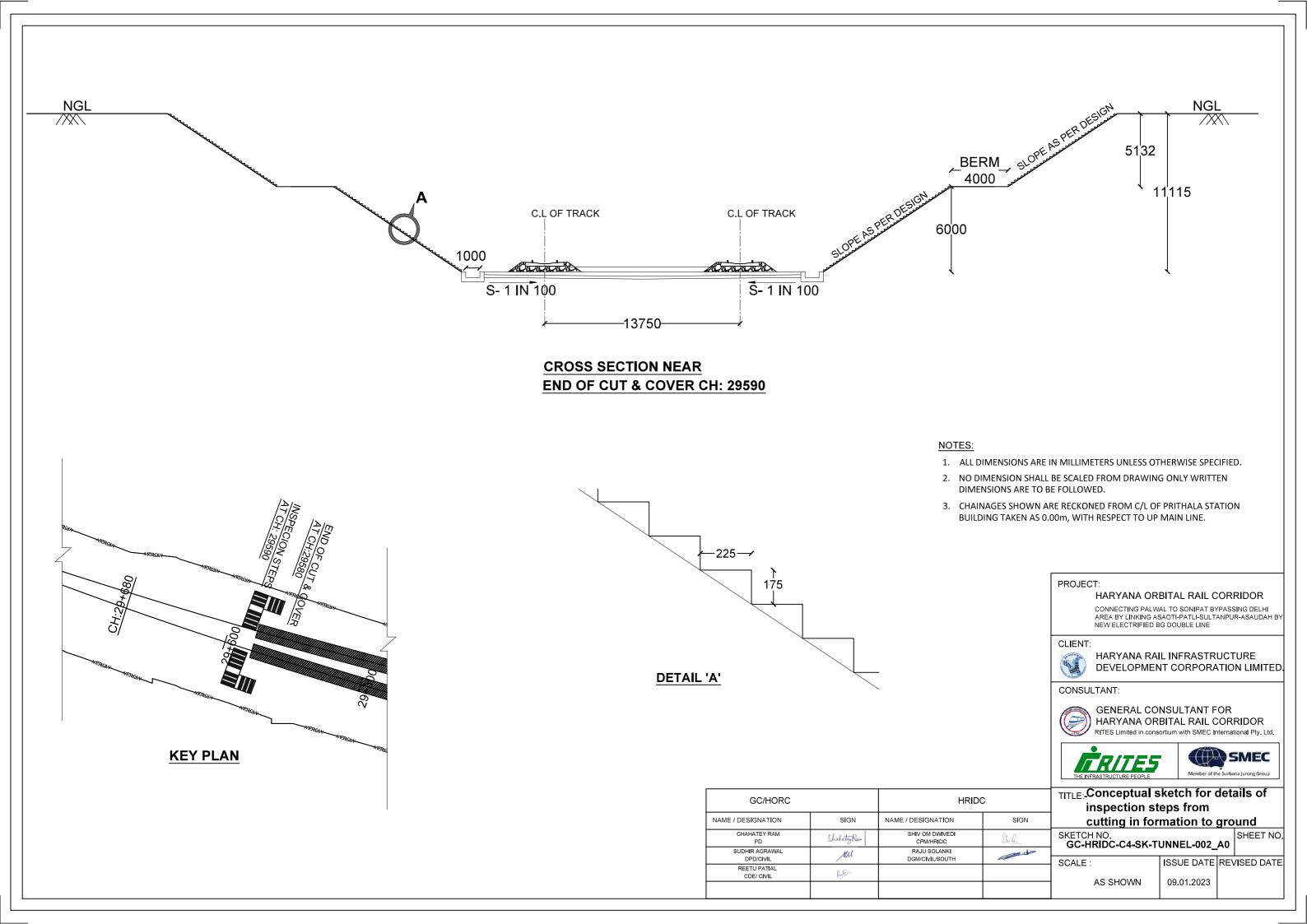






GC/HORC		HRIDC	
NAME / DESIGNATION	NAME / DESIGNATION SIGN		
CHAHATEY RAM PD	Chakatey Rom	R. R. KUMAR GM/ IP&P	
SUDHIR AGRAWAL DPD/CIVIL	Mil	RAJU SOLANKI DGM/C-SOUTH	
REETU PATIAL CDE/ CIVIL	Reets		

NOTES: ALL DIMENSION ARE IN MILLIMETERS EXPECT LEVELS WHICH ARE IN METERS. NO DIMENSION 1. SHALL BE SCALED FROM DRAWING ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. 2. ROAD SHALL BE CONSTRUCTED AS PER MORTH STANDARDS. 3. ROAD SHALL BE CONSTRUCTED UPTO ROW OF RUB PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE CLIENT: HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd. **SMEC** RITES Member of the Surbana Jurong Grou TYPICAL SKETCH FOR TITLE:-APPROACH ROAD OF RUBs SIGN at DRG. NO. GC-HRIDC-SK-GEN-031_A0 SHEET NO. 1 OF 1 to de SCALE : ISSUE DATE REVISED DATE AS SHOWN 11.01.2023

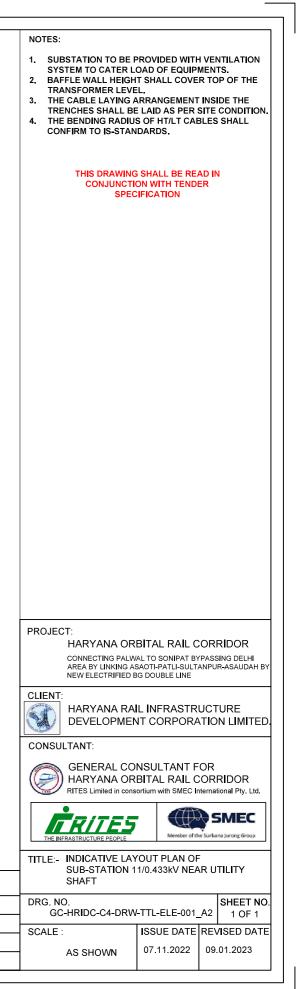


General Electrical Services Drawings

-5000--5000--5000--5000--5000-—1700—-₁ UPS AND BATTERY -1500-1200 ROOM TRANSFORMER-2 TRANSFORMER-1 5200 DRY TYPE DRY TYPE (2000kVA) (2000kVA) S METERING PANEL ROOM 片 DG SET 13000 (11kV, 910 KVA) DOOR 1700 -800-DIFFERENT LT PANELS 1100 🗁 DOOR/ SHUTTER 🗠

INDICATIVE LAYOUT PLAN OF SUB-STATION (SS1) NEAR CONSTRUCTION CUM UTILITY SHAFT OF TUNNEL 11/0.443kV(25M X 13M) FOR REFERENCE PURPOSE ONLY

GC/HORC		HRIDO)
NAME / DEGINATION	SIGN	NAME / DEGINATION	SIGN
CHAHATEY RAM PD	Chahatey Ren	SHIV OM DWIVEDI CPM/HRIDC	
A.S. JANGHU CRE/Elect	Age the	MENDLEEF KATIYAR AM/Elect.	
STIPHEN SAHOO ARE/Elect	Jourse		



-5000--5000--5000--5000--5000--1700-UPS AND BATTERY -1500-1200 ROOM TRANSFORMER-1 TRANSFORMER-2 5200 DRY TYPE DRY TYPE (2000kVA) (2000kVA) S **PANEL** METERING ROOM 노 DG SET 13000 (11kV, 910 KVA)

DOOR

🗠 door/ Shutter 🖂

1700

^{_}800^{_}

1100

INDICATIVE LAYOUT PLAN OF SUB-STATION (SS2) NEAR SONIPAT END PORTAL OF TUNNEL 11/0.443kV (25M X 13M) FOR REFERENCE PURPOSE ONLY

DIFFERENT LT PANELS

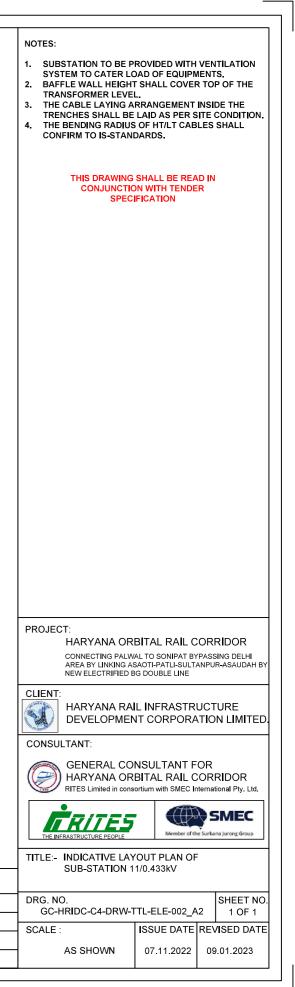
GC/HORC		HRIDO	2
NAME / DEGINATION	SIGN	NAME / DEGINATION	SIGN
CHAHATEY RAM PD	Chahatey Row	SHIV OM DWIVEDI CPM/HRIDC	
A.S. JANGHU CRE/Elect	Object.	MENDLEEF KATIYAR AM/Elect.	
STIPHEN SAHOO ARE/Elect	June		

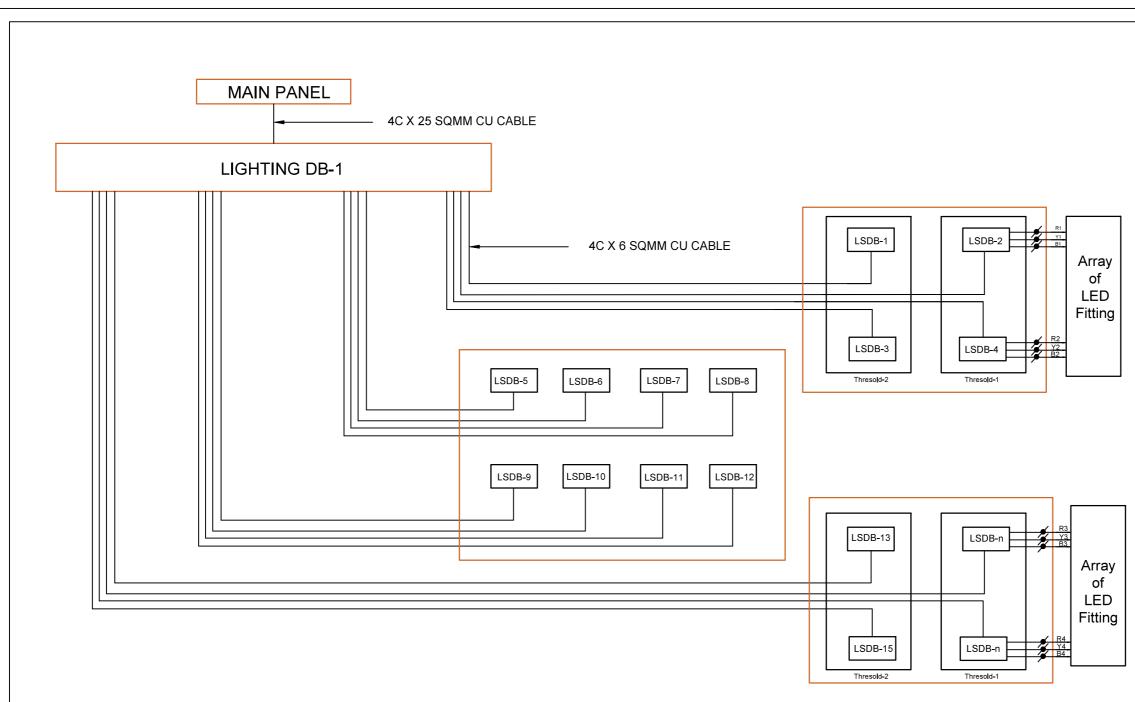
CONTROL ROOM

-6000-

2600

4500

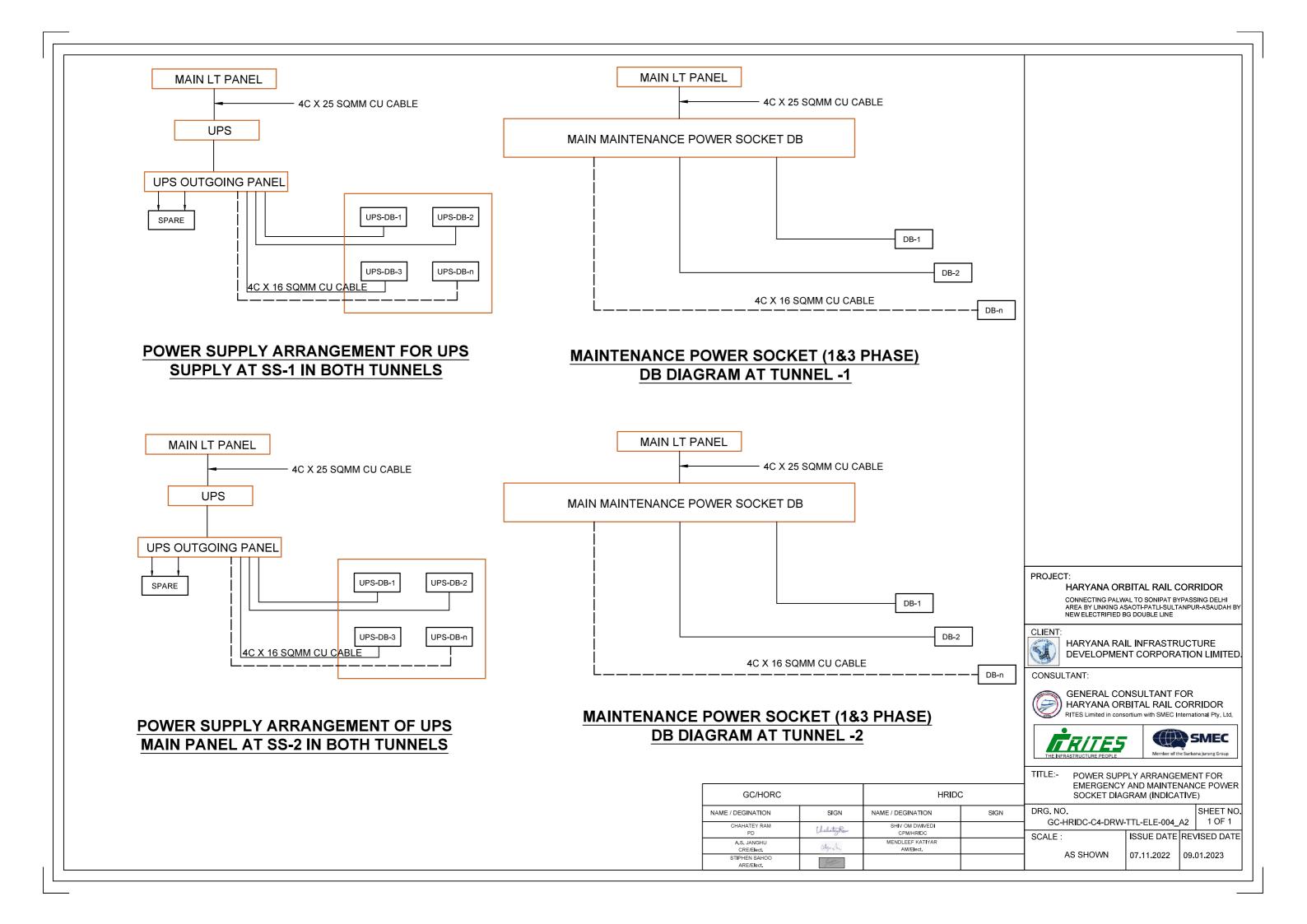


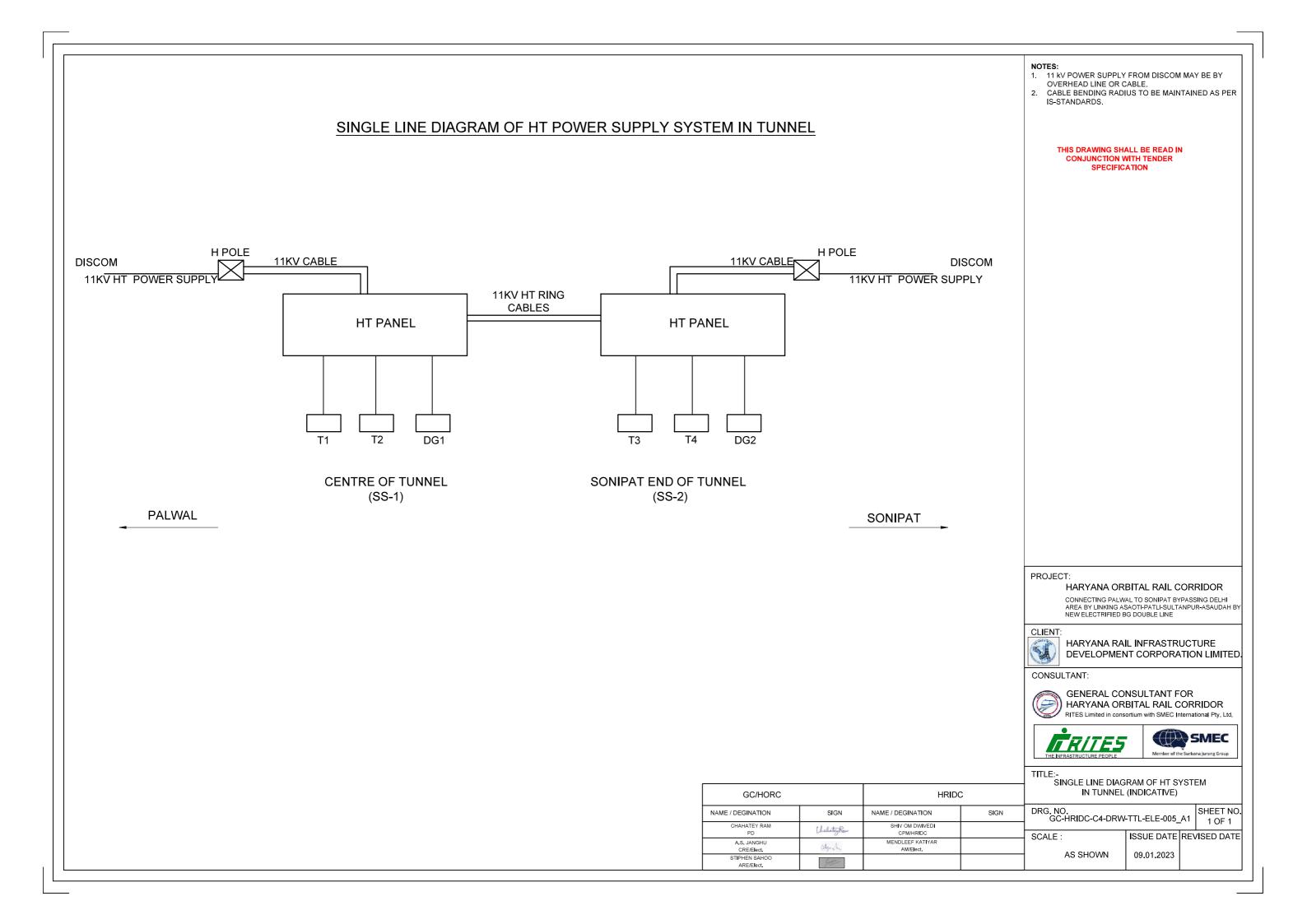


POWER SUPPLY FOR LIGHTING ARRANGEMENT AT TUNNEL-1 & TUNNEL-2

GC/HORC		HRIDC	
NAME / DEGINATION	SIGN	NAME / DEGINATION	S
CHAHATEY RAM PD	Chahatey Ran	SHIV OM DWIVEDI CPM/HRIDC	
A.S. JANGHU CRE/Elect	Agerta	MENDLEEF KATIYAR AM/Elect.	
STIPHEN SAHOO ARE/Elect	freeze		

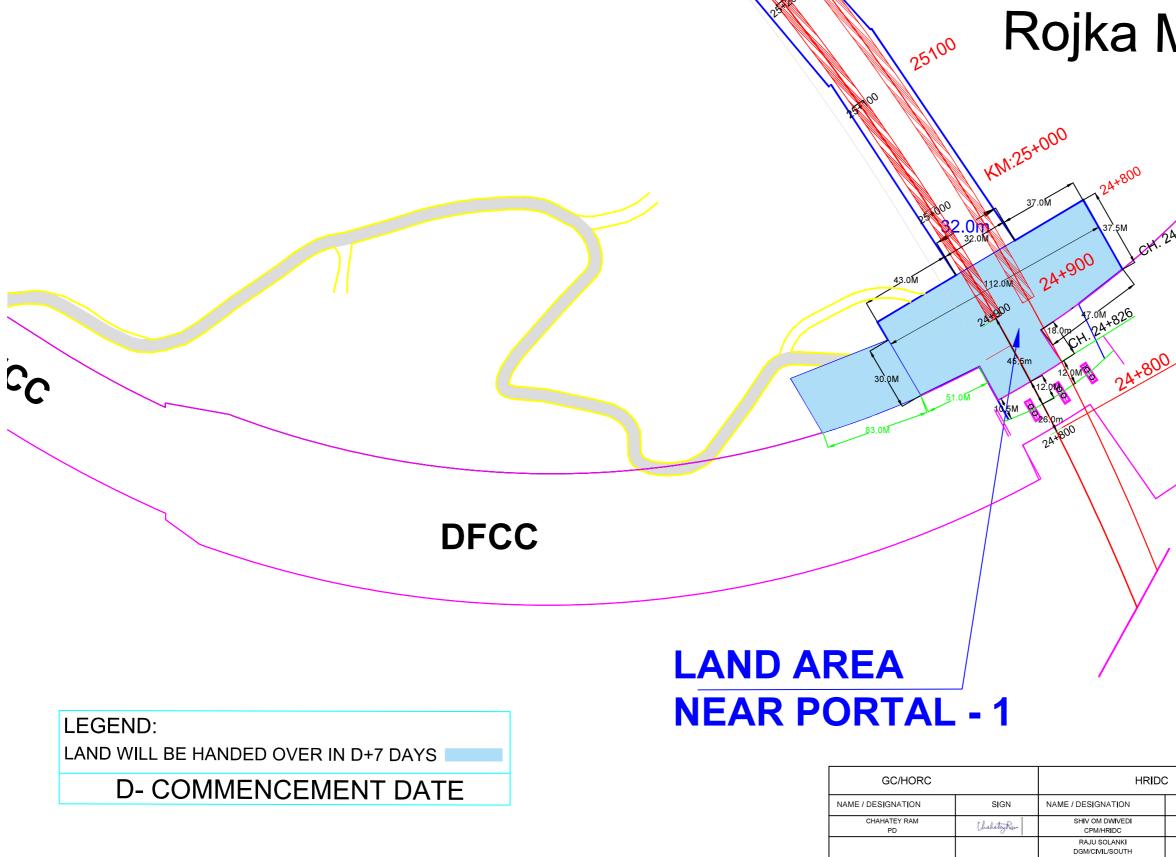
	PROJEC	HARYANA OR CONNECTING PALW AREA BY LINKING AS NEW ELECTRIFIED B	AL TO SON I PAT BY SAOTI-PATLI-SULT	
	CONSU	HARYANA RA DEVELOPMEN	NSULTANT F BITAL RAIL C ortium with SMEC Ir	NTION LIMITED.
IGN	TITLE:- DRG. NO GC-H	ARRANGEMEN	IT (INDICATIVE	E)
	SCALE :			REVISED DATE 09.01.2023





Land Area for Tunnel





REETU PATIAL

CDE/ CIVIL

Reets .

afts	N
Mec	
24+844	
/	PROJECT: HARYANA ORBITAL RAIL CORRIDOR CONNECTING PALWAL TO SONIPAT BYPASSING DELHI AREA BY LINKING ASAOTI-PATLI-SULTANPUR-ASAUDAH BY NEW ELECTRIFIED BG DOUBLE LINE
	HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED. CONSULTANT: GENERAL CONSULTANT FOR
	HARYANA ORBITAL RAIL CORRIDOR RITES Limited in consortium with SMEC International Pty. Ltd.
SIGN	TITLE:- LAND AREA NEAR PORTAL-1
She a	SKETCH NO. HRIDC-C4-SK-LANDPLAN-001_A1
	SCALE : ISSUE DATE REVISED DATE AS SHOWN 03.01.2023 10.01.2023

