

Attachment No. 1 of Addendum No. 7

Legend

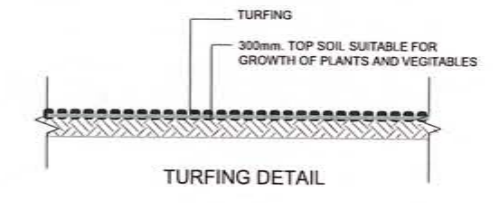
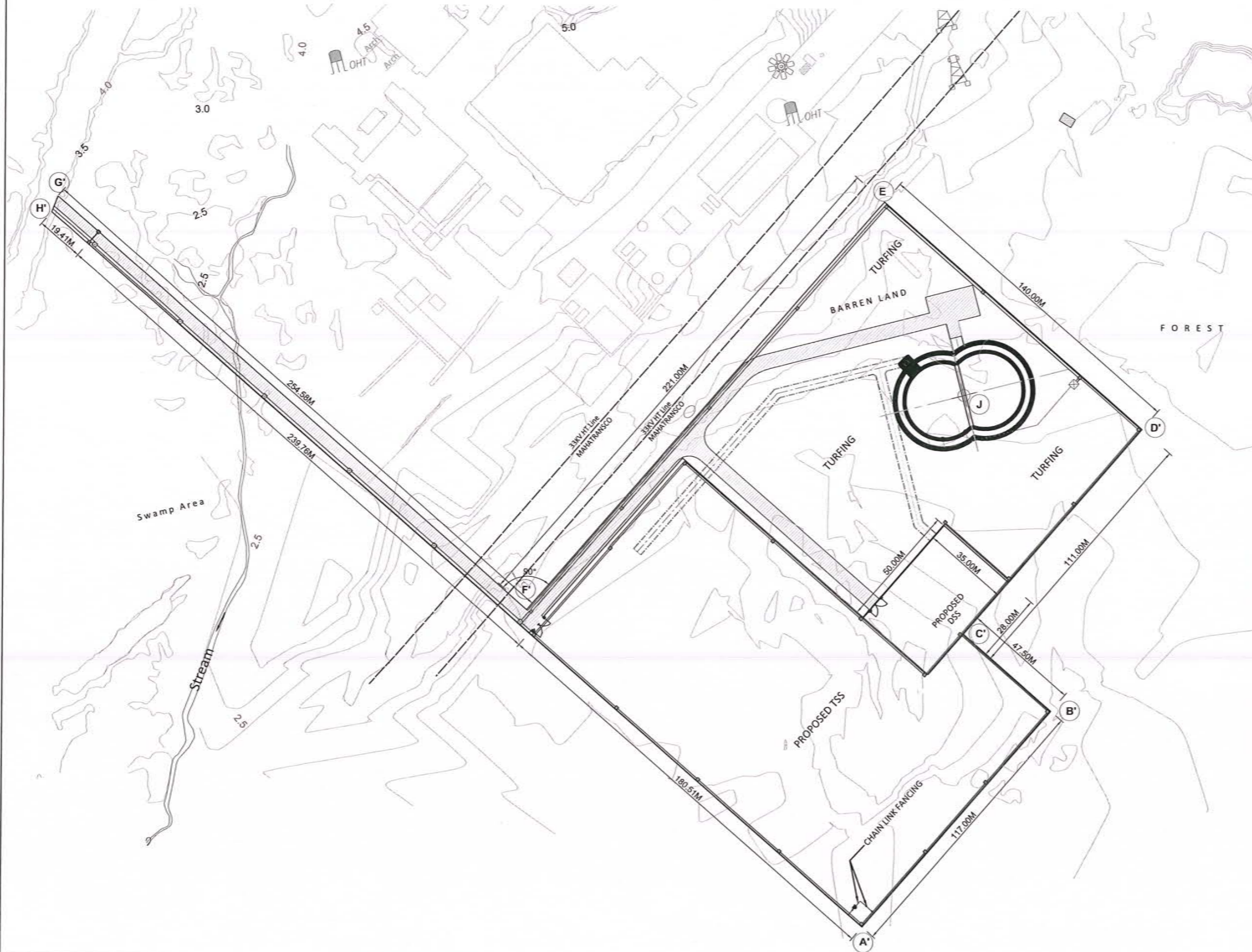
New

Revised

Item No.	Drawing Name	Drawing No.							
		1	2	3	4	5	6	7	8
A	LIST OF REVISED DRAWINGS								
1	SHAFT-2 - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (GENERAL ARRANGEMENT DRAWING)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-15520003
2	MAIN TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (GENERAL ARRANGEMENT DRWAING)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-20490004
3	ADIT TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (SLOPE PROTECTION DETAILS)(1)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-23500001
4	ADIT TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS)(1)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-23510001
5	ADIT TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS)(2)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-23520001
6	PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (DETAIL OF BOUNDARY WALL OVER FOOTING)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-00400002
7	PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (DETAIL OF BOUNDARY WALL ON RETAINING WALL)	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-00420002
B	LIST OF NEW DRAWINGS								
1	REINFORCEMENT DETAIL OF OPENING COVER	TD	-JIC	-IC1	-TDC	-B01	-UST	-NTU	-15162000



SHAFT-2 - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (GENERAL ARRANGEMENT DRAWING)



LEGEND

	RCC PRECAST BOUNDARY WALL
	6m WIDE ACCESS METALLED ROAD
	DRAIN
	CHAIN LINK FENCING
	CABLE DUCT
	CATCH PIT
	MS GATE

PERMANENT AREA COORDINATE

ID	EASTING	NORTHING	NGL	FORMATION LEVEL
A'	281344.326	2111907.192	+3.50	+5.53
B'	281420.850	2111995.698	+4.00	+5.83
C'	281384.904	2112026.748	+3.65	+5.72
D'	281457.512	2112110.707	+5.50	+6.00
E	281351.563	2112202.221	+7.06	+5.65
F'	281207.004	2112035.065	+5.10	+5.07
G'	281014.346	2112201.487	+4.00	+4.95
H'	281011.614	2112194.596	+4.10	+4.87
J	281384.558	2112123.831	+4.91	+6.30

REFERENCE DRAWINGS

- WORKS AREA ACCESS PLAN SHAFT-2
TD-JIC-IC1-TDC-B01-UST-NTU-00160000

GENERAL NOTES

- ALL DIMENSIONS ON DRAWINGS ARE SHOWN IN M UNLESS MENTIONED OTHERWISE.
- DRAWINGS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.

Adopted by: **NHSRCL**

Project
**Mumbai-Ahmedabad High Speed Railway Project
(Package No. MAHSR-C-2)**

OWNER
 NATIONAL HIGH SPEED RAIL CORPORATION LTD.

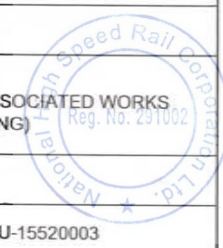
JICA Study Team
 Japan International Consultants for Transportation
 NIPPON KOEI
 ORIENTAL CONSULTANTS GLOBAL

Revised	<i>KA</i>	Date	20 SEP 2019
Prepared			
Checked	<i>WZ</i>		20 SEP 2019
Approved	<i>Shu</i>		20 SEP 2019

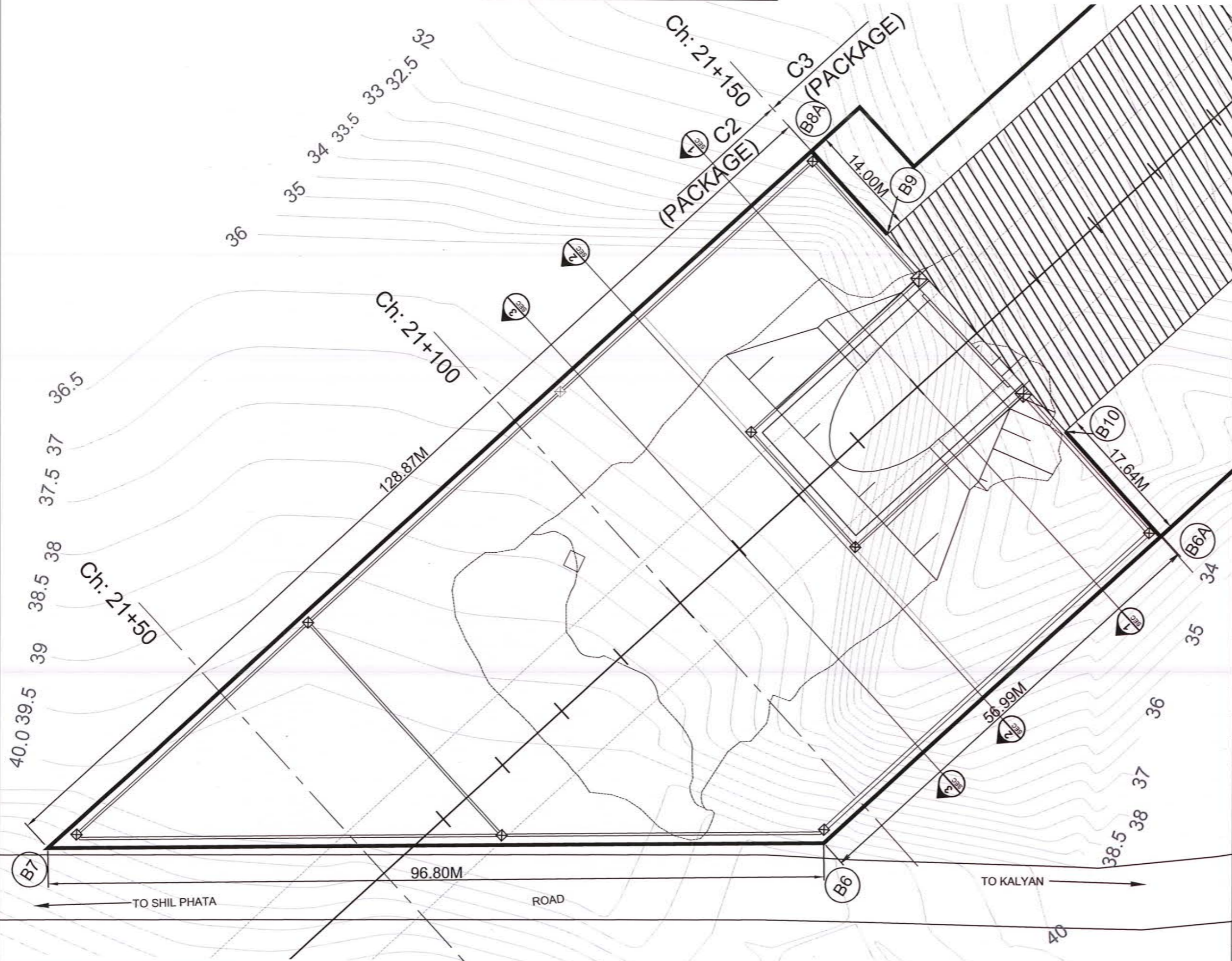
Title
**SHAFT-2 - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS
(GENERAL ARRANGEMENT DRAWING)**

Scale
1:1000 @ A1

Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU-15520003



MAIN TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (GENERAL ARRANGEMENT DRAWING)



	RCC PRECAST BOUNDARY WALL
	DRAIN
	CATCH PIT

PERMANENT AREA COORDINATES

ID	EASTING	NORTHING	NGL
B10	281329.9580	2112129.4960	25.50
B6A	281361.0960	2112065.2100	32.00
B6	294357.4960	2117626.1450	42.00
B7	294263.4220	2117603.3470	41.50
B8A	294340.9950	2117716.2850	31.50
B9	281362.7960	2112134.9470	32.50

REFERENCE DRAWINGS

- WORKS AREA ACCESS PLAN MAIN TUNNEL PORTAL TD-JIC-IC1-TDC-B01-UST-NTU-00180000

GENERAL NOTES

- ALL DIMENSIONS ON DRAWINGS ARE SHOWN IN M UNLESS MENTIONED OTHERWISE.
- DRAWINGS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.

Adopted by: **NHSRCL**

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Revised	<i>BA</i>	Date	20 SEP 2019
Prepared			
Checked	<i>BA</i>		20 SEP 2019
Approved	<i>Shantanu</i>		20 SEP 2019

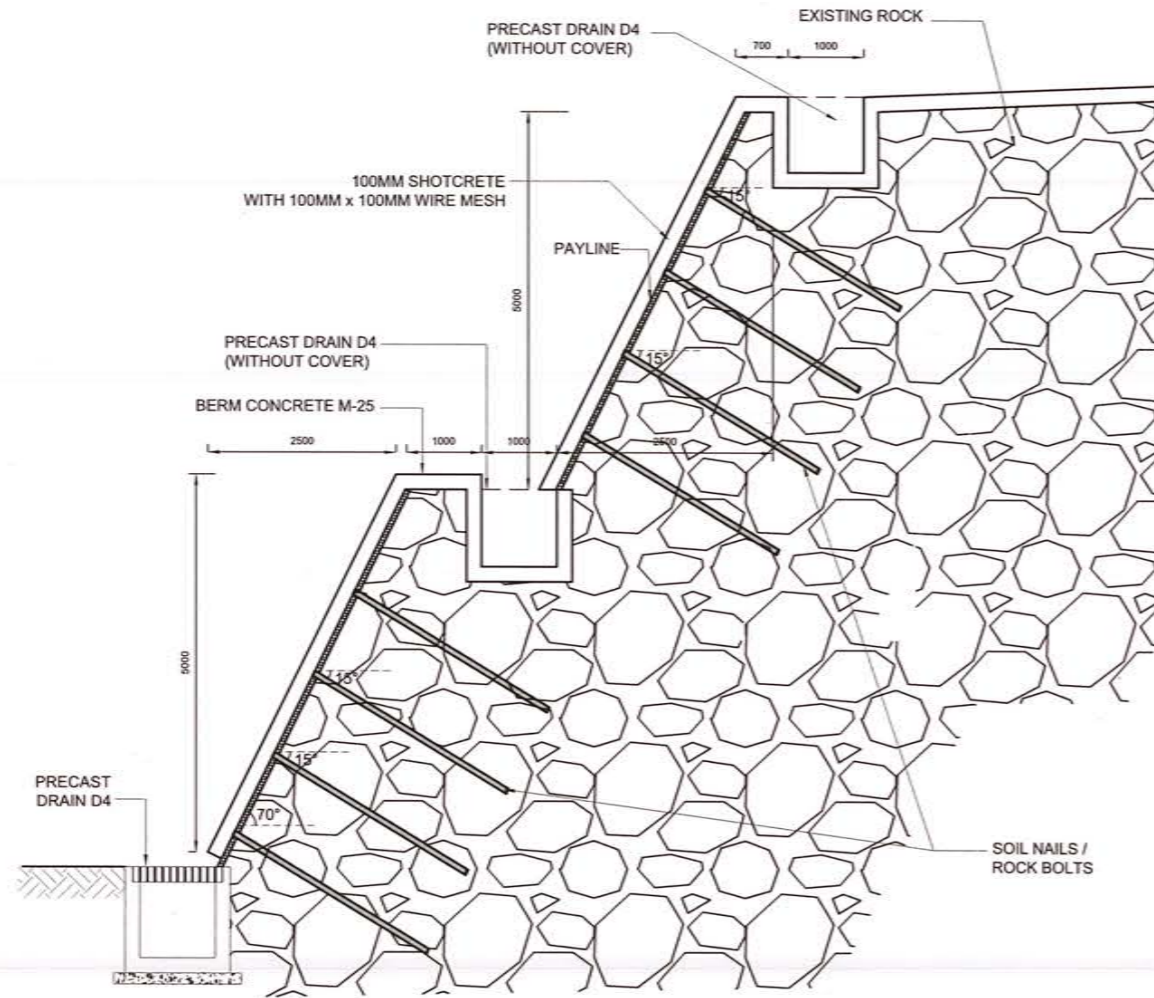
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(GENERAL ARRANGEMENT DRAWING)

Scale
1:250 @ A1

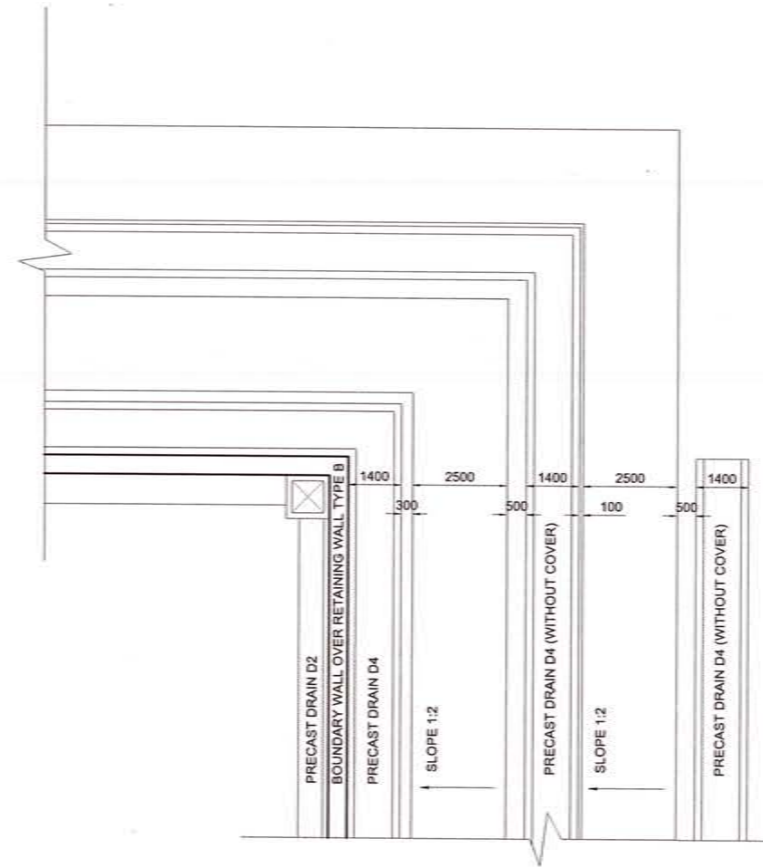
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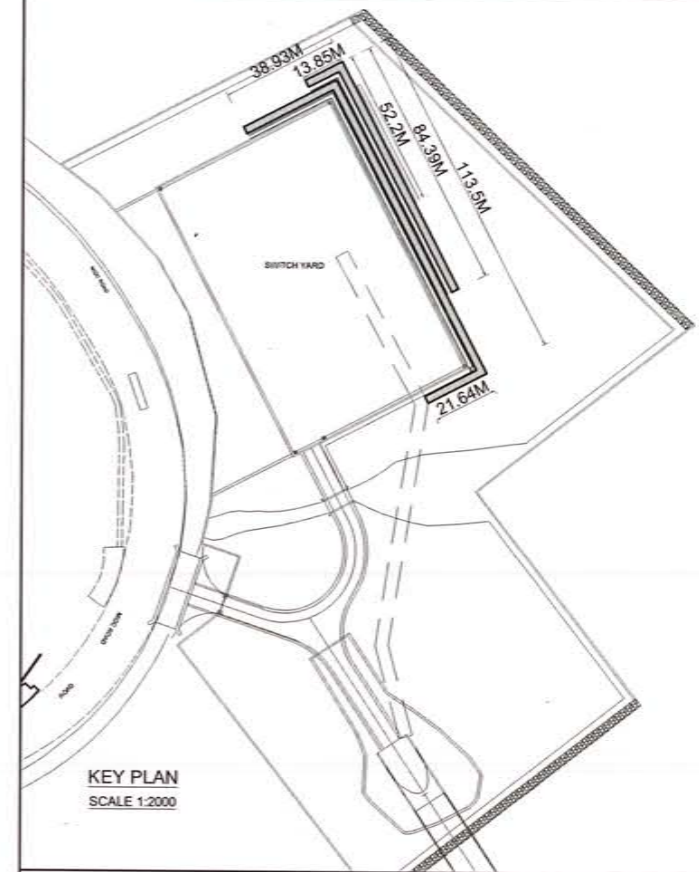
ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (SLOPE PROTECTION DETAILS)



TYPICAL SLOPE PROTECTION DETAIL
SCALE 1:100



TYPICAL SLOPE PROTECTION PLAN
SCALE 1:200



KEY PLAN
SCALE 1:2000

REFERENCE DRAWINGS

1. ADIT TUNNEL PORTAL - GENERAL ARRANGEMENT DRAWING
TD -JIC -IC1 -TDC -E01 -UST -NTU -23360001
2. ADIT TUNNEL PORTAL - DRAINAGE (1)
TD -JIC -IC1 -TDC -E01 -UST -NTU -23370001
3. ADIT TUNNEL PORTAL - RETAINING WALL (1)
TD -JIC -IC1 -TDC -E01 -UST -NTU -23410000
4. ADIT TUNNEL PORTAL - BOUNDARY WALL (1)
TD -JIC -IC1 -TDC -E01 -UST -NTU -23430000
5. DETAIL OF DRAIN (2)
TD -IC -IC7 -TDC -E07 -UST -NTU -00440000

GENERAL NOTES

1. ALL DIMENSIONS ON DRAWINGS ARE SHOWN IN MM UNLESS OTHERWISE SPECIFIED.
2. DRAWINGS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. ALLOWABLE SBC SHALL BE 16T/SQM OR MORE. THE SAME SHALL BE CONFIRMED BY PLATE LOAD TEST PRIOR TO CONSTRUCTION.
4. ALL DRAINS WILL BE PRECAST. GRADE OF CONCRETE FOR THE DRAINS SHALL BE M-35 AS PER IS:456.
5. THE MINIMUM UNIAXIAL COMPRESSIVE STRENGTH OF SPRAYED SHOTCRETE ON 28 DAYS, ON IN-SITU CYLINDRICAL CORE SPECIMEN PREPARED AS PER JSCE-F 561-2000, SHALL BE 18N/MM². THE COMPRESSIVE STRENGTH OF SHOTCRETE SHALL BE DETERMINED AS PER JAPANESE CODE JIS-A-1107.
6. SOIL NAILS SHALL BE HOT DIPPED GALVANIZED AS PER HDZ45: GIS H8641 OR IS:4759 OR ISO 1461.
7. NGL IS FOR INDICATIVE PURPOSES ONLY. IT MAY VARY ON SITE AT THE TIME OF EXECUTION.
8. MATERIAL OF SOIL NAILS SHALL CONFORM TO GUIDELINES AND STANDARDS OF IS-1786.
9. MINIMUM THREE PULL OUT TESTS SHALL BE CONDUCTED IN ONE ROCK FORMATION AS MENTIONED IN CLAUSE 4.8 OF IS: 11309-1985 OR AS PER THE INSTRUCTIONS OF ENGINEER IN-CHARGE.
10. PULL OUT STRENGTH OF ROCK BOLTS SHALL BE 53.46KN.
11. LENGTH OF SOIL NAIL / ROCK BOLTS SHALL BE DECIDED BY THE ENGINEER IN-CHARGE AS PER SITE CONDITIONS.
12. THE DECISION OF PROVIDING SOIL NAIL OR ROCK BOLTS SHALL BE TAKE BY THE ENGINEER BASED ON THE PROPOSAL SUBMITTED BY THE CONTRACTOR.

Adopted by: **NHSRCL**

Project
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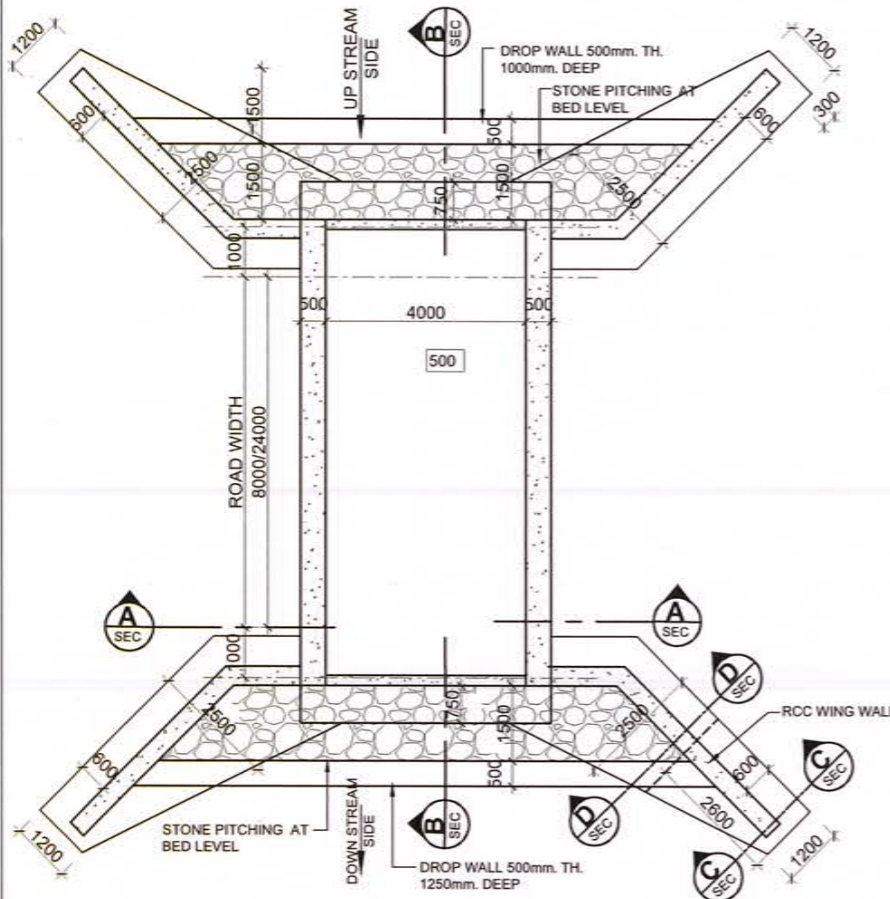
Revised	<i>KA</i>	Date	20 SEP 2019
Prepared			
Checked	<i>VZ</i>		20 SEP 2019
Approved	<i>Shantanu</i>		20 SEP 2019

Title	ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (SLOPE PROTECTION DETAILS)
Scale	1:1000 @ A1
Drawing No.	TD-JIC-IC1-TDC-E01-UST-NTU- 23500001

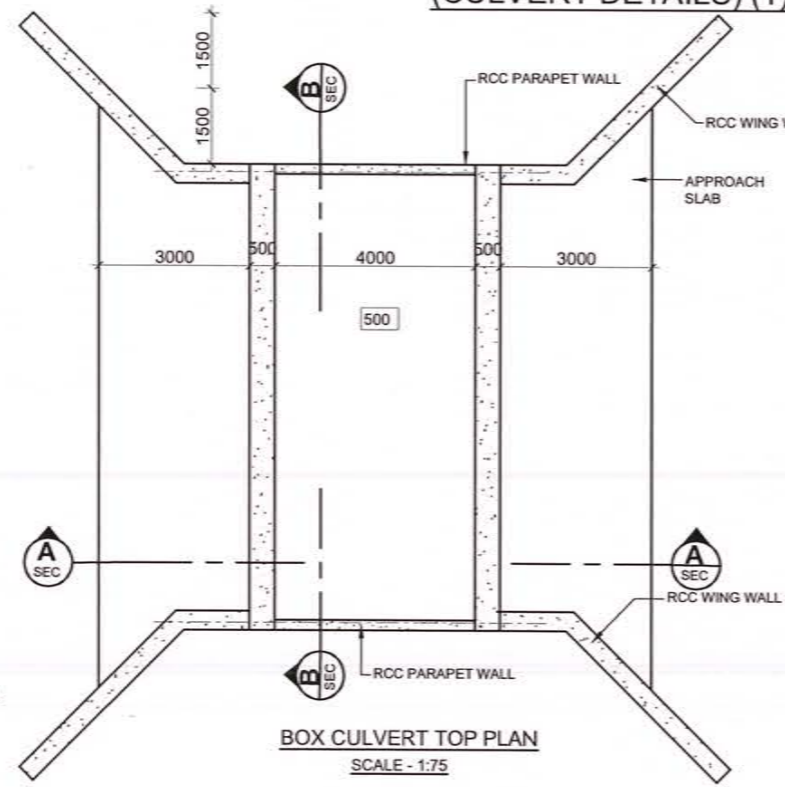


ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS

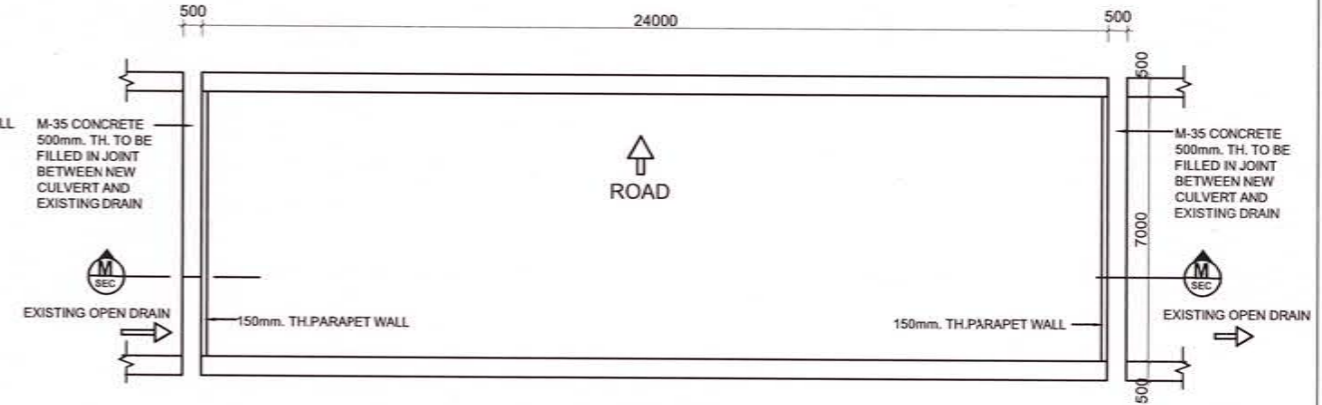
(CULVERT DETAILS) (1)



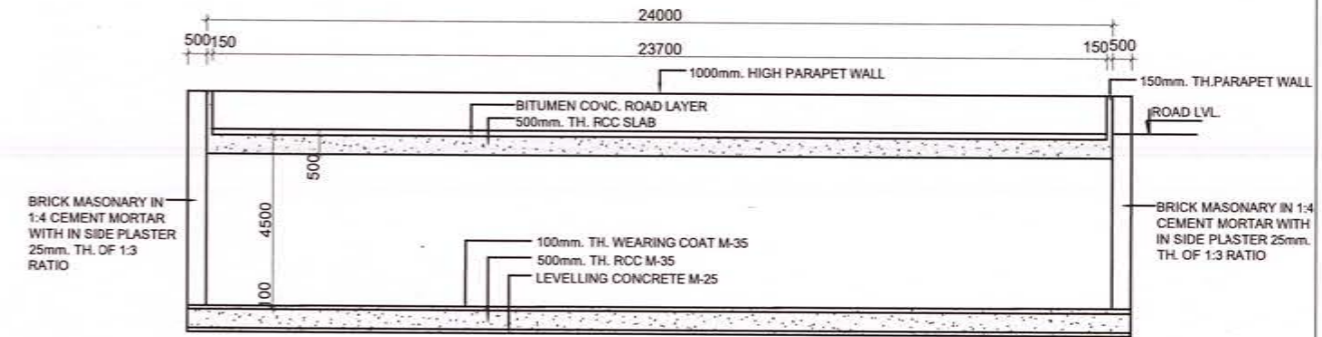
BOX CULVERT BOTTOM PLAN
SCALE - 1:75



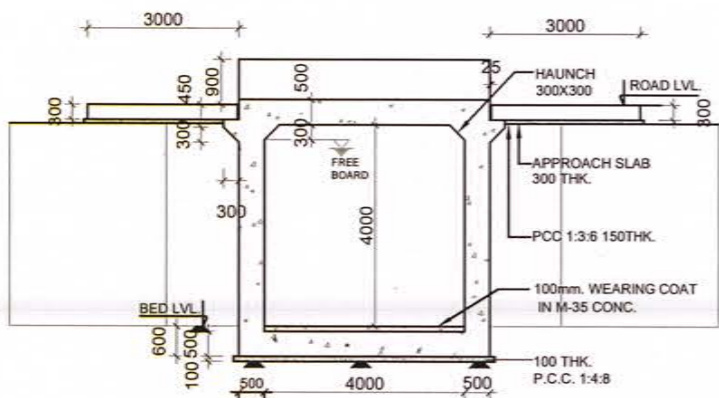
BOX CULVERT TOP PLAN
SCALE - 1:75



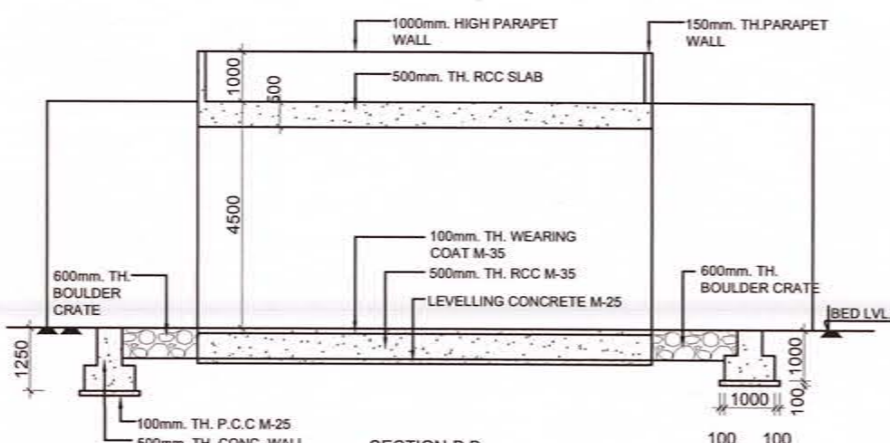
MAIN ROAD BOX CULVERT PLAN
SCALE - 1:100



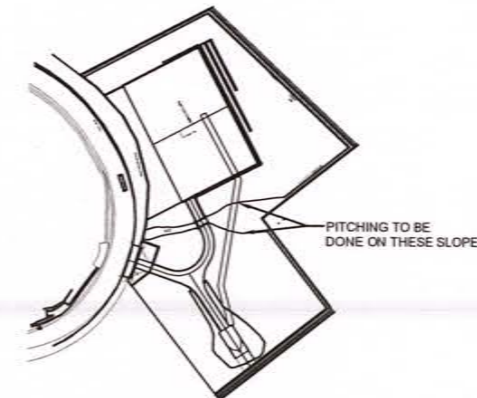
SECTION-M-M
SCALE - 1:100



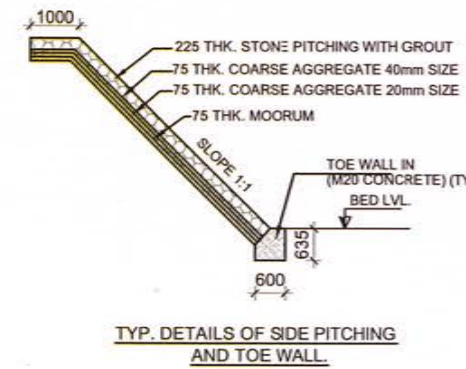
SECTION-A-A
SCALE - 1:100



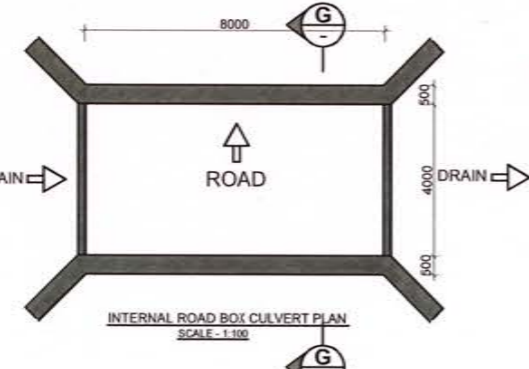
SECTION-B-B
SCALE - 1:100



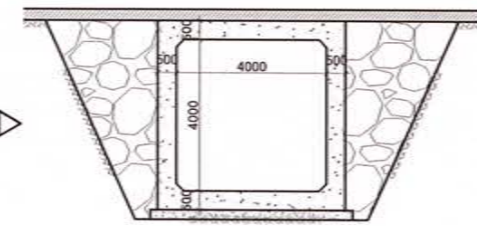
KEY PLAN



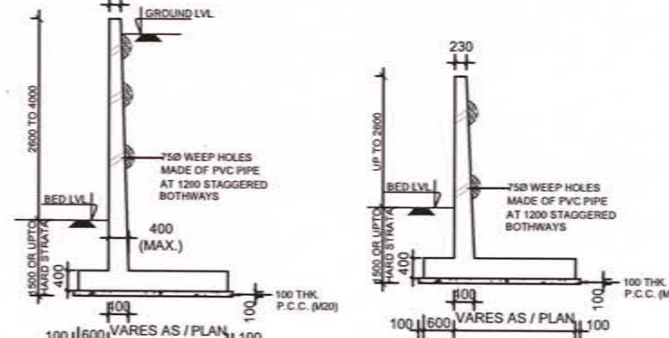
TYP. DETAILS OF SIDE PITCHING AND TOE WALL
SCALE - 1:25



INTERNAL ROAD BOX CULVERT PLAN
SCALE - 1:100



SECTION-G-G
SCALE - 1:100



SECTION-D-D
SCALE - 1:75

SECTION-C-C
SCALE - 1:75

REFERENCE DRAWINGS

- ADIT TUNNEL PORTAL - GENERAL ARRANGEMENT DRAWING
TD-JIC-IC1-TDC-B01-UST-NTU-233600D1
- ADIT TUNNEL - DRAINAGE (1)
TD-JIC-IC1-TDC-B01-UST-NTU-233700D1

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
- STRUCTURAL DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND SERVICES DRAWINGS.
- DO NOT SCALE. FOLLOW WRITTEN DIMENSIONS ONLY.
- ALLOWABLE SBC SHALL BE 16T/SQM OR MORE. THE SAME SHALL BE CONFIRMED BY PLATE LOAD TEST PRIOR TO CONSTRUCTION.
- GRADE OF MATERIALS SHALL BE AS FOLLOWS

5.1. RCC:	M35
5.2. PCC:	M20
5.3. REINFORCEMENT:	Fe500D (IS 1786)

Adopted by: **NHSRCL**

Project
Mumbai-Ahmedabad High Speed Railway Project
(Package No. MAHSR-C-2)

OWNER
NHSRCL NATIONAL HIGH SPEED RAIL CORPORATION LTD.

JICA Study Team
JIC Japan International Consultants for Transportation
NK NIPPON KOEI
OC ORIENTAL CONSULTANTS GLOBAL

Revised	<i>KA</i>	Date	20 SEP 2019
Prepared			
Checked	<i>WZ</i>		20 SEP 2019
Approved	<i>Sharma</i>		20 SEP 2019

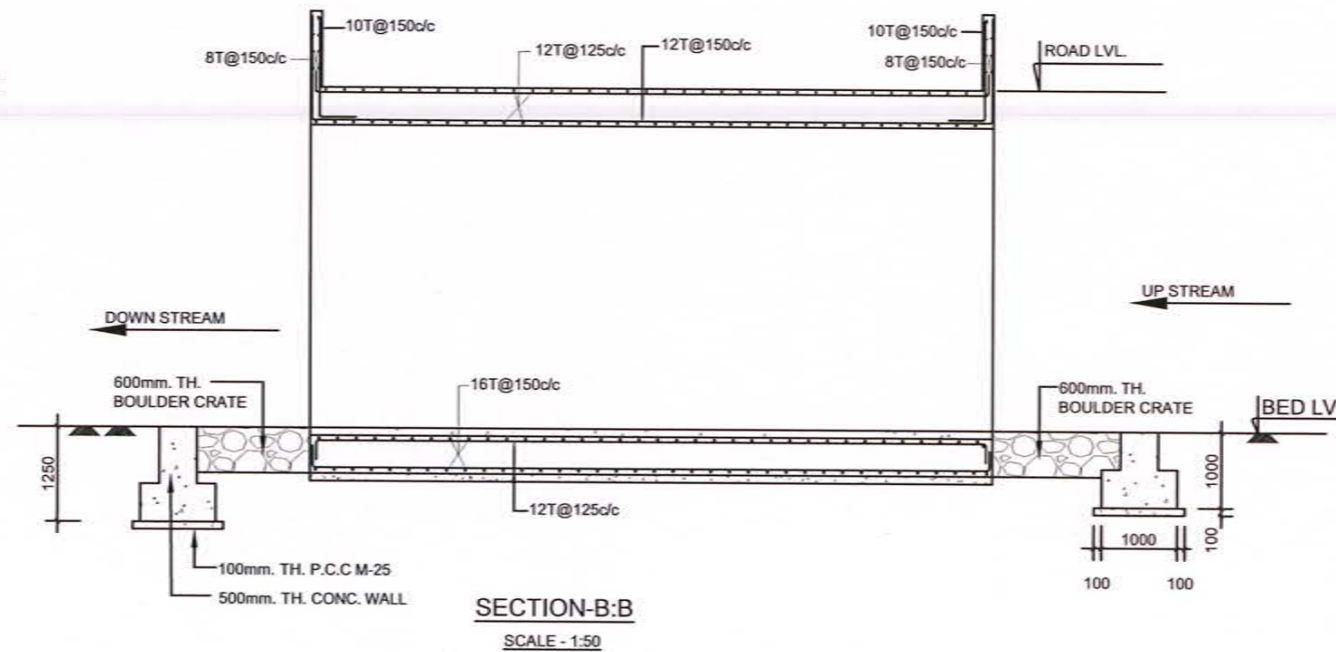
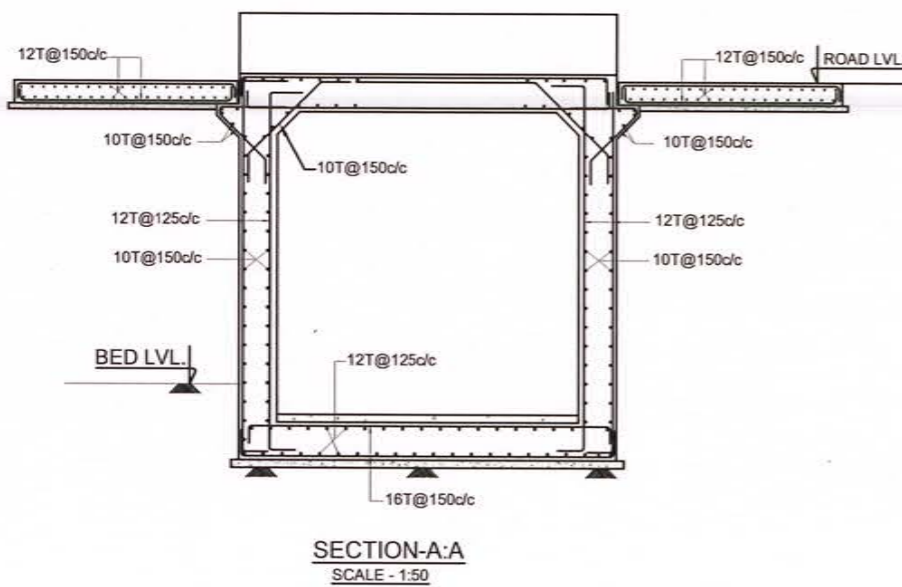
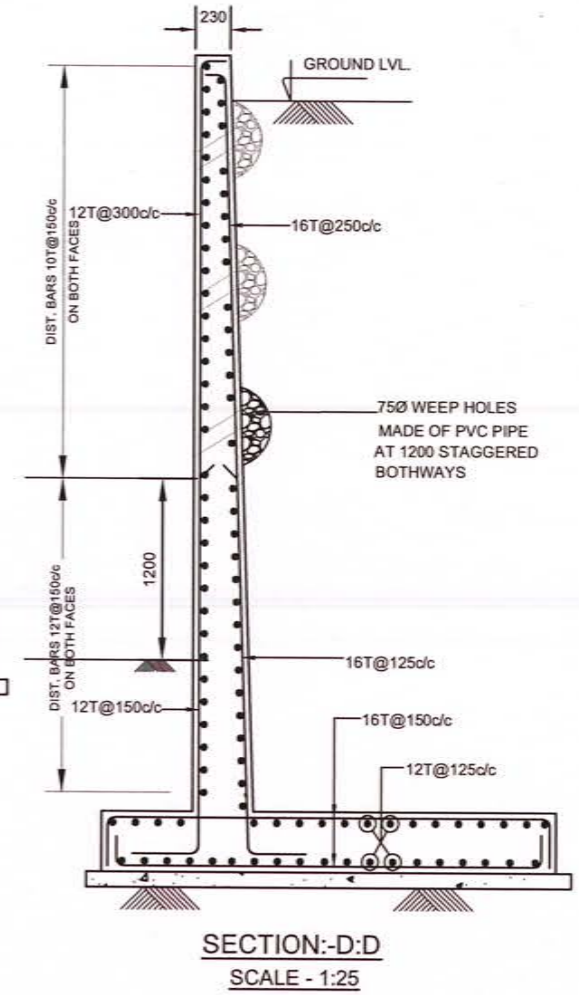
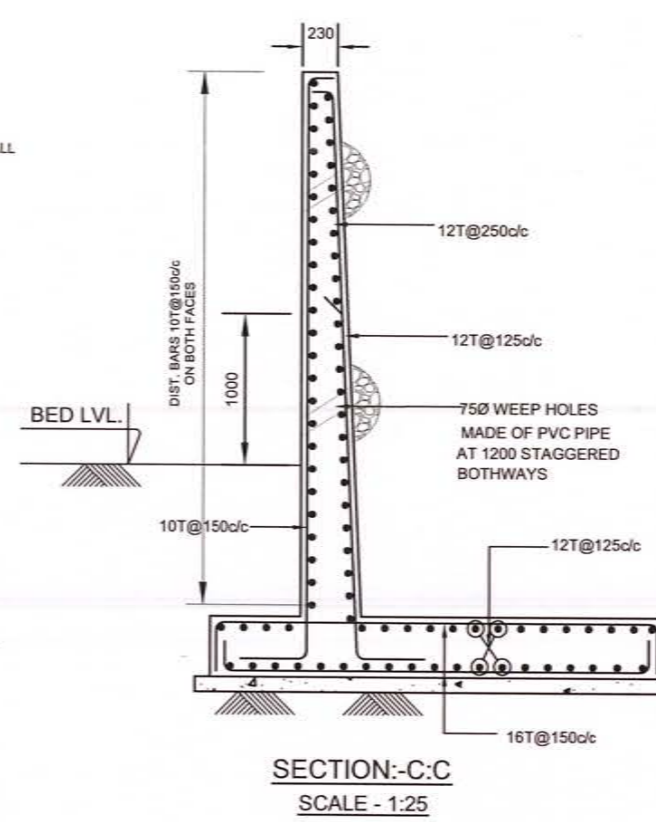
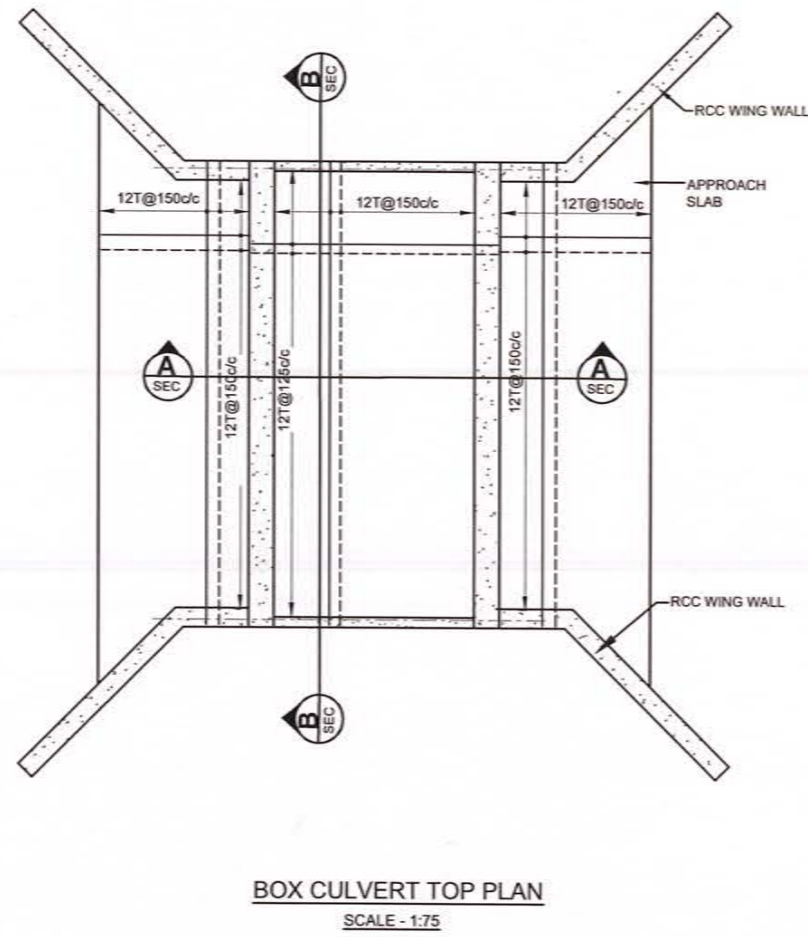
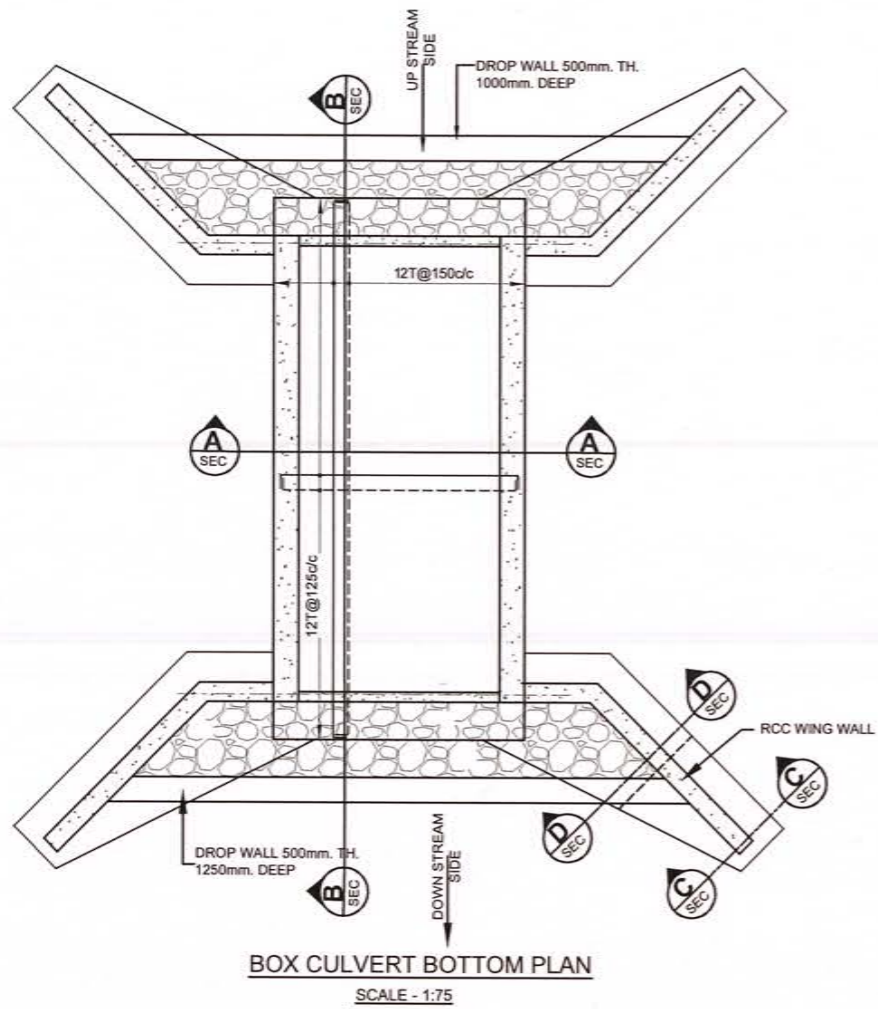
Title
ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS)(1)

Scale
AS MENTIONED @ A1

Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU-23510001



ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS) (2)



REFERENCE DRAWINGS

1. ADIT TUNNEL PORTAL - GENERAL ARRANGEMENT DRAWING
TD-JIC-IC1-TDC-B01-UST-NTU-23360001
2. ADIT TUNNEL - DRAINAGE (1)
TD-JIC-IC1-TDC-B01-UST-NTU-23370001

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
2. STRUCTURAL DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND SERVICES DRAWINGS.
3. DO NOT SCALE. FOLLOW WRITTEN DIMENSIONS ONLY.
4. ALLOWABLE SBC SHALL BE 16T/SQM OR MORE. THE SAME SHALL BE CONFIRMED BY PLATE LOAD TEST PRIOR TO CONSTRUCTION.
5. GRADE OF MATERIALS SHALL BE AS FOLLOWS

5.1. RCC:	M35
5.2. PCC:	M20
5.3. REINFORCEMENT:	Fe500D(IS 1786)

Adopted by: **NHSRCL**

Project
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JICA Study Team
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 ORIENTAL CONSULTANTS GLOBAL

Revised	WA	Date	20 SEP 2019
Prepared			
Checked	VSR	Date	20 SEP 2019
Approved	Shubh	Date	20 SEP 2019

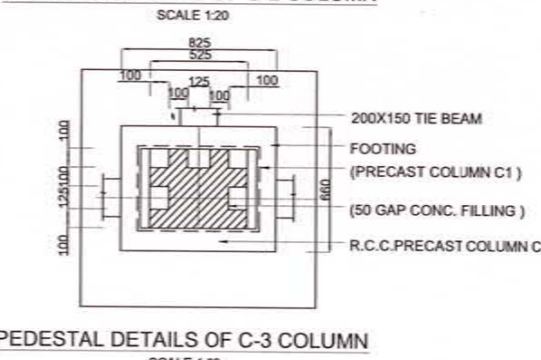
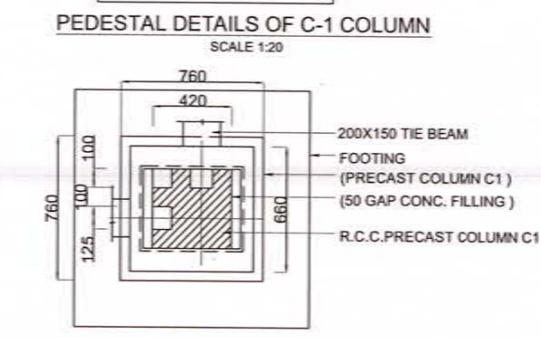
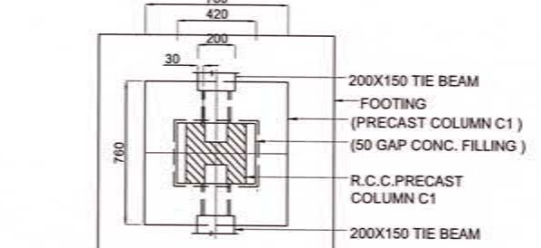
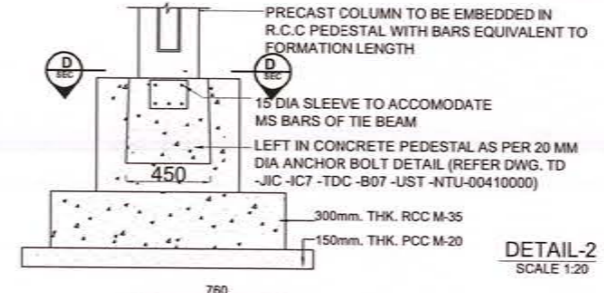
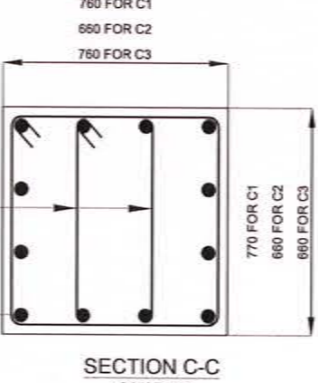
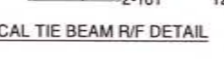
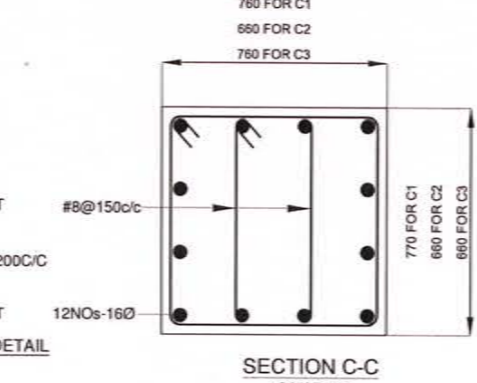
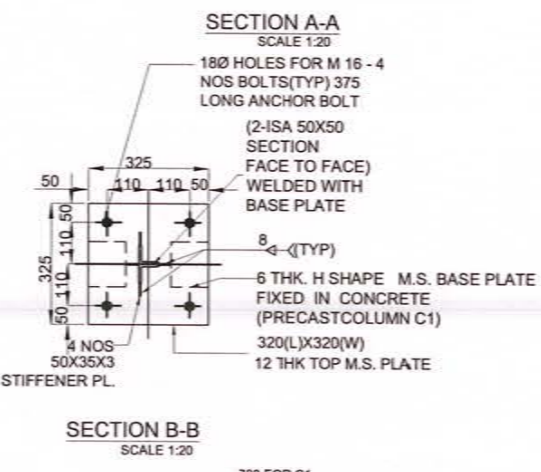
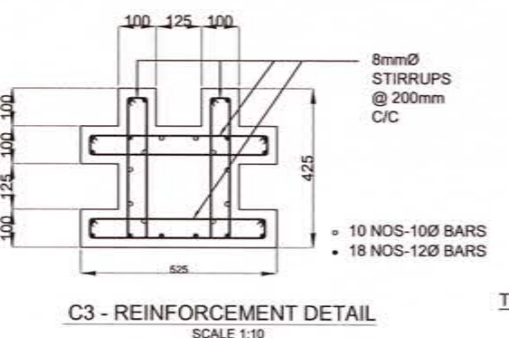
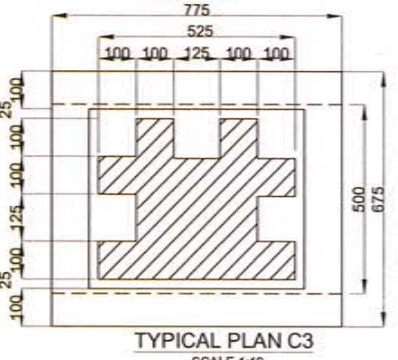
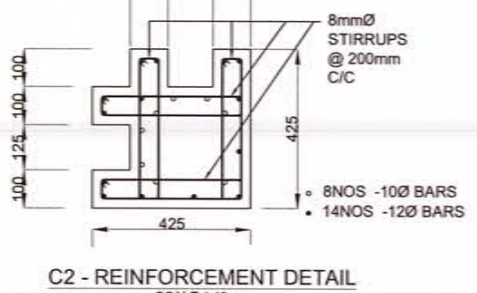
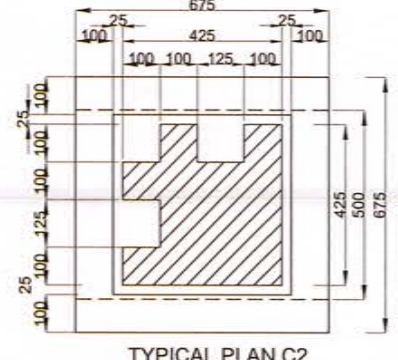
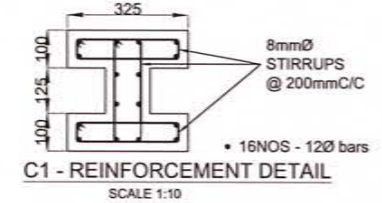
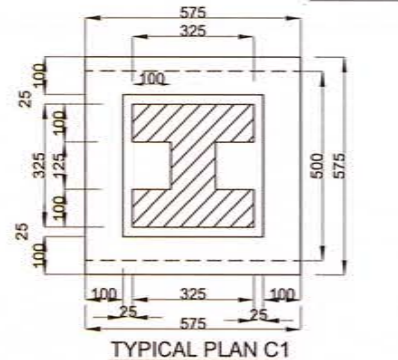
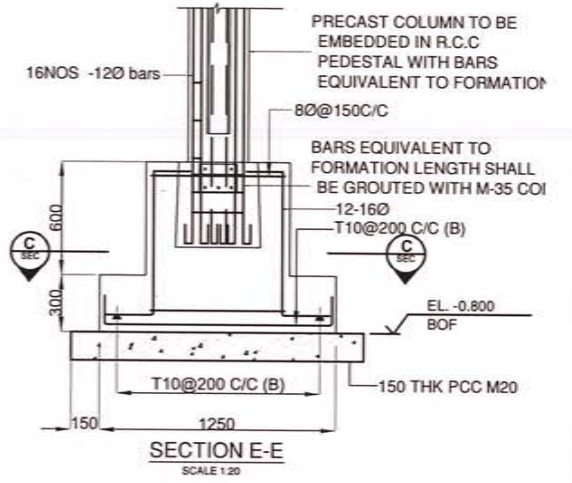
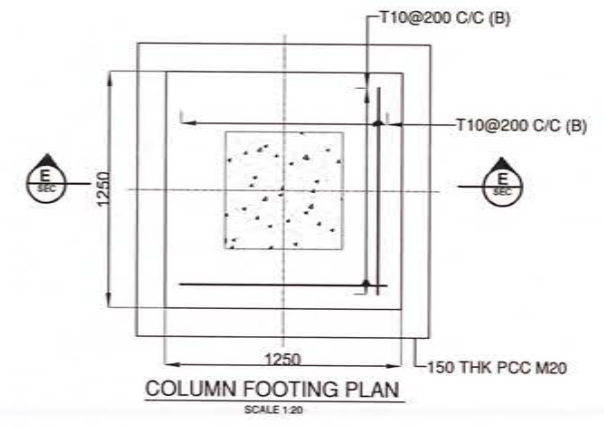
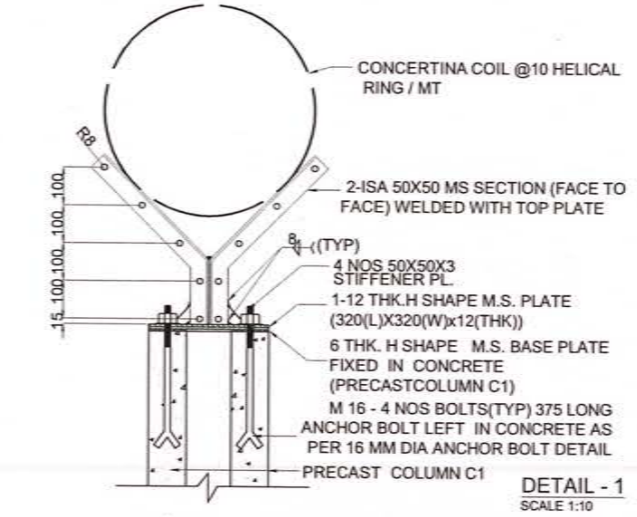
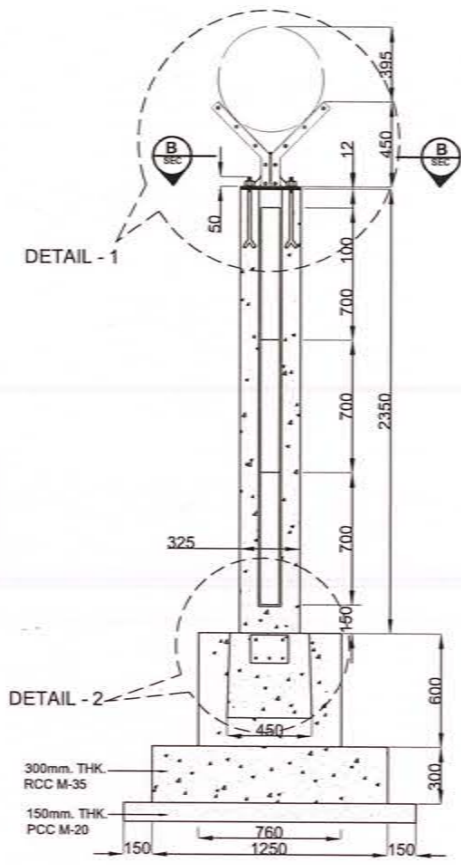
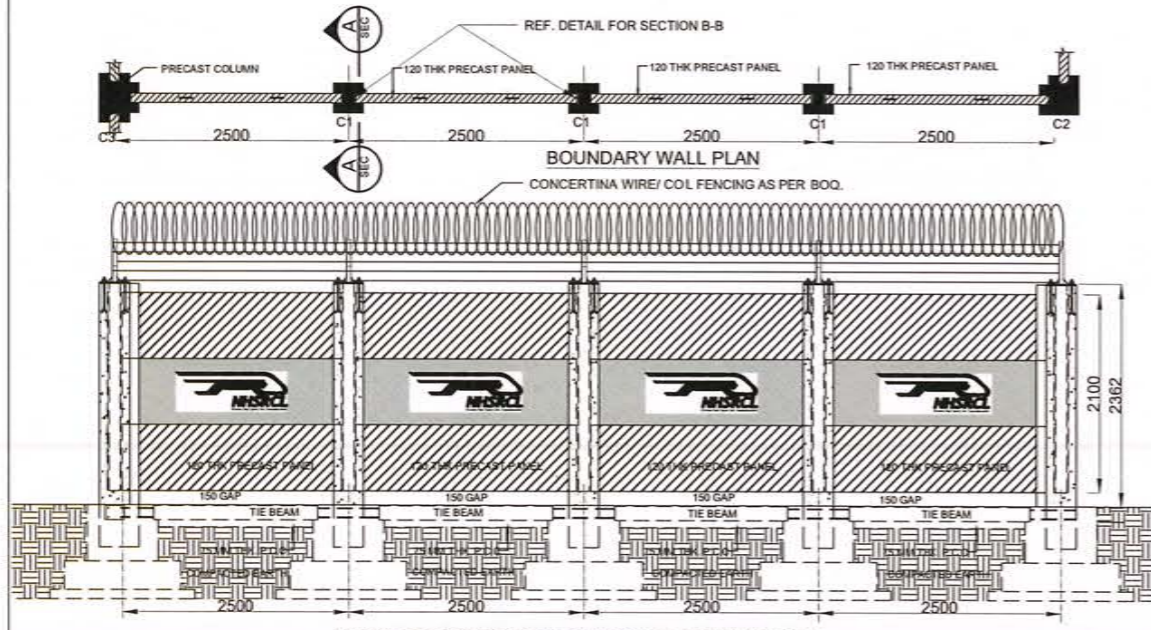
Title
ADIT TUNNEL PORTAL - PERMANENT REINSTATEMENT AND ASSOCIATED WORKS
(CULVERT DETAILS)(2)

Scale
AS MENTIONED @ A1

Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU-23520001



PERMANENT REINSTATEMENT & ASSOCIATED WORKS (DETAIL OF BOUNDARY WALL OVER FOOTING)



- REFERENCE DRAWING**
- DETAIL OF BOUNDARY WALL PANEL TD -JIC -IC7 -TDC -B07 -UST -NTU-00410001
 - SHAFT 2 - BOUNDARY WALL (1) TD -JIC -IC1 -TDC -B01 -UST -NTU-16310000
 - SHAFT 3 - BOUNDARY WALL (1) TD -JIC -IC1 -TDC -B01 -UST -NTU-18100000
 - MAIN TUNNEL PORTAL - BOUNDARY WALL (1) TD -JIC -IC1 -TDC -B01 -UST -NTU-20520000
 - ADIT TUNNEL PORTAL - BOUNDARY WALL (1) TD -JIC -IC1 -TDC -B01 -UST -NTU-23430000

- GENERAL NOTES**
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 - DRAWINGS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
 - ALLOWABLE SBC SHALL BE 16T/SQM OR MORE. THE SAME SHALL BE CONFIRMED BY PLATE LOAD TEST PRIOR TO CONSTRUCTION.
 - GRADE OF CONCRETE SHALL BE M-35 AS PER IS-456.
 - GRADE OF REINFORCEMENT SHALL BE Fe500D (IS 1786).
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 - COLUMNS REQUIRED FOR OBLIQUE JUNCTIONS WILL BE CAST ON SITE BASED ON APPROVAL OF THE SITE ENGINEER.
 - IF A CUSTOM SIZED BOUNDARY WALL PANEL IS REQUIRED AS PER SITE CONDITIONS, THE SAME SHALL BE CAST ON THE SITE BASED ON APPROVAL BY THE SITE ENGINEER.
 - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
a) BEAMS, COL = 30mm b) FOOTING = 40 mm c) PANEL = 20 mm

Adopted by: **NHSRCL**

Project
Mumbai-Ahmedabad High Speed Railway Project
(Package No. MAHSR-C-2)

OWNER
NHSRCL
NATIONAL HIGH SPEED RAIL CORPORATION LTD.

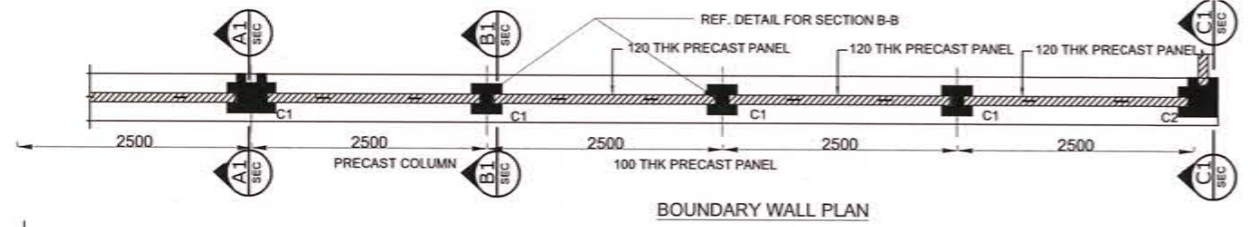
JICA Study Team
JIC Japan International Consultants for Transportation
NK NIPPON KOEI
OC ORIENTAL CONSULTANTS GLOBAL

Revised *KA*
Prepared
Checked *WZ*
Approved *Shahin*
Date **20 SEP 2019**
20 SEP 2019
20 SEP 2019

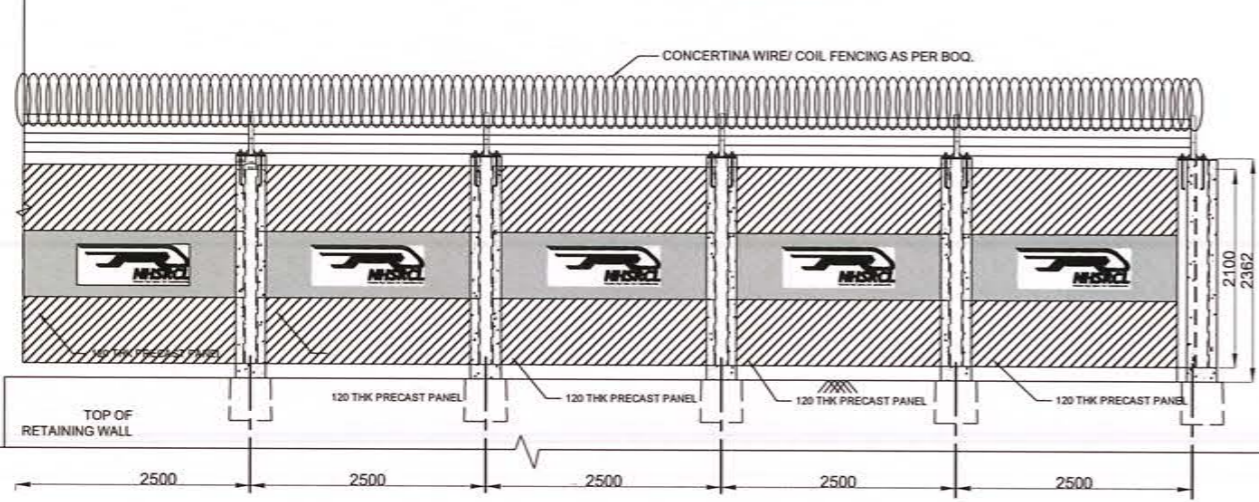
Title
PERMANENT REINSTATEMENT & ASSOCIATED WORKS
(DETAIL OF BOUNDARY WALL OVER FOOTING)
Scale
AS MENTIONED @ A1
Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU- 00400002

PERMANENT REINSTATEMENT & ASSOCIATED WORKS

(DETAIL OF BOUNDARY WALL ON RETAINING WALL)

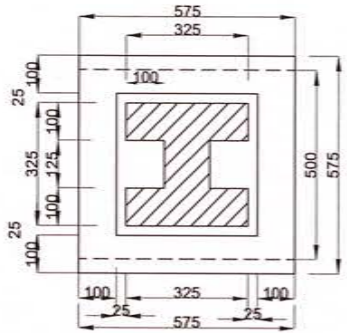


BOUNDARY WALL PLAN



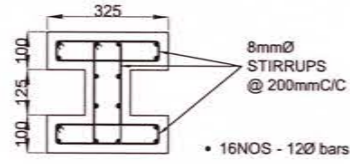
R.C.C. PRECAST BOUNDARY WALL ELEVATION OVER RETAINING WALL

SCALE 1:30



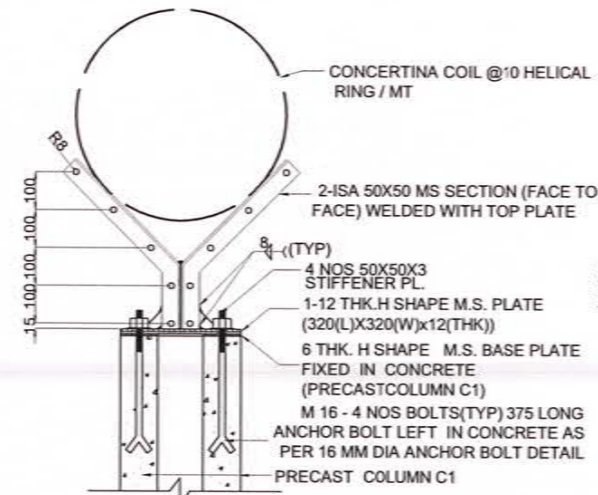
TYPICAL PLAN - C1

SCALE 1:10



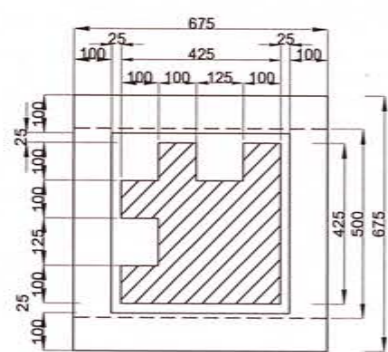
COLUMN C1 REINFORCEMENT DETAIL

SCALE 1:10



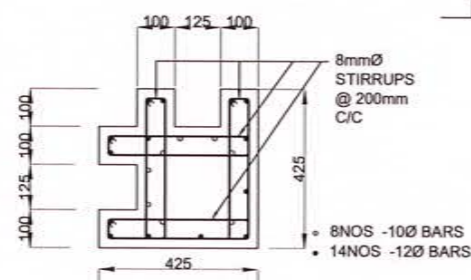
REINFORCEMENT DETAIL OF PRECAST COLUMN C1

SCALE 1:10



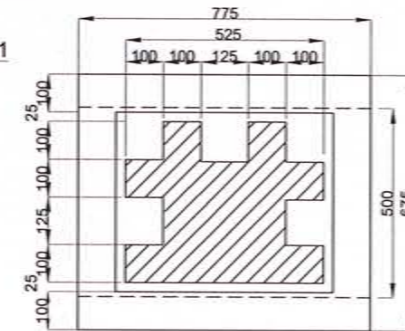
TYPICAL PLAN - C2

SCALE 1:10



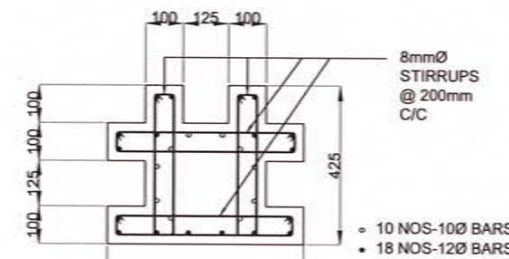
CORNER COLUMN C2 REINFORCEMENT DETAIL

SCALE 1:10



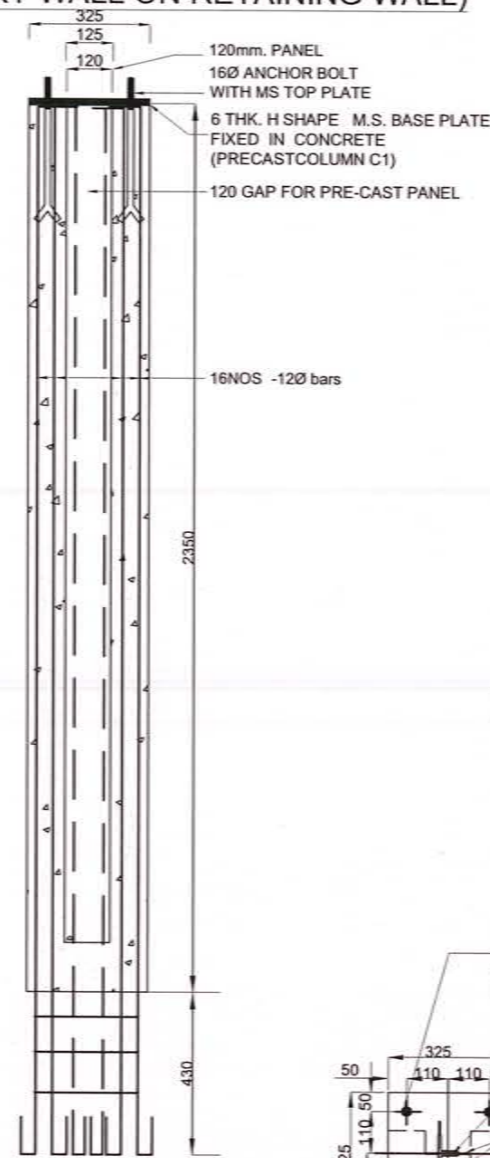
TYPICAL PLAN - C3

SCALE 1:10



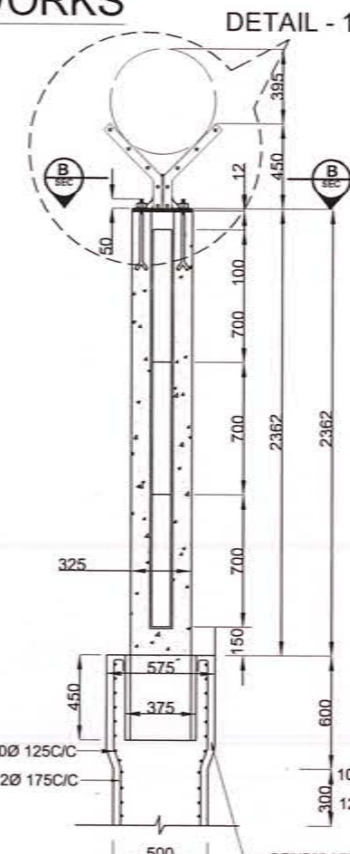
CORNER COLUMN C3 REINFORCEMENT DETAIL

SCALE 1:10



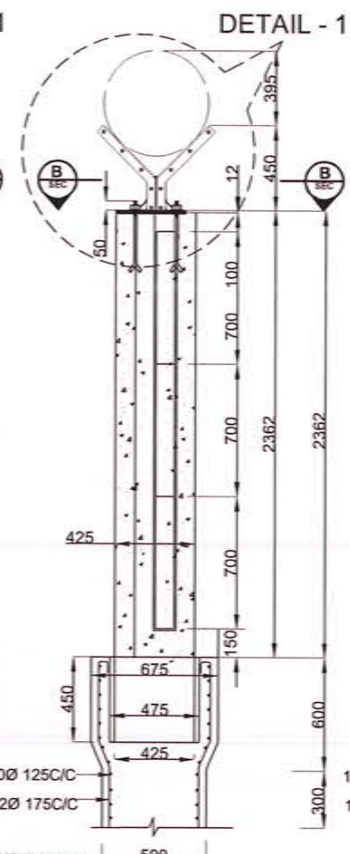
REINFORCEMENT DETAIL OF PRECAST COLUMN C1

SCALE 1:10



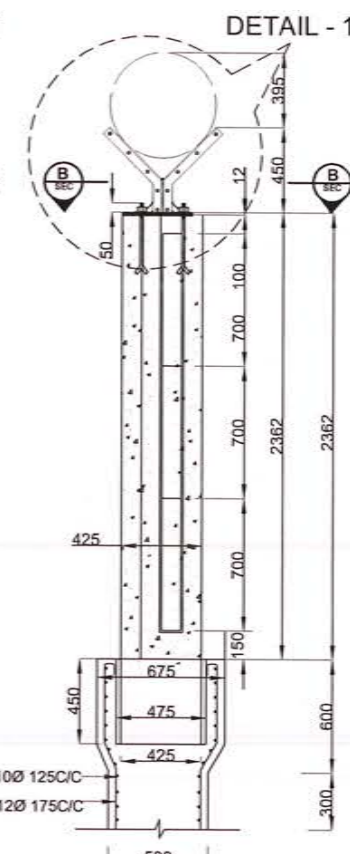
SECTION B1-B1

SCALE 1:20



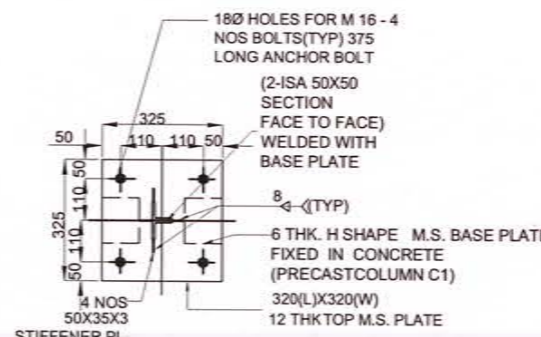
SECTION A1-A1

SCALE 1:20



SECTION C1-C1

SCALE 1:20



SECTION B-B

SCALE 1:20

- REFERENCE DRAWING**
1. DETAIL OF BOUNDARY WALL PANEL
TD -JIC -IC7 -TDC -B07 -UST -NTU-00410001
 2. SHAFT 2 - BOUNDARY WALL (1)
TD -JIC -IC1 -TDC -B01 -UST -NTU-16310000
 3. SHAFT 3 - BOUNDARY WALL (1)
TD -JIC -IC1 -TDC -B01 -UST -NTU-18100000
 4. MAIN TUNNEL PORTAL - BOUNDARY WALL (1)
TD -JIC -IC1 -TDC -B01 -UST -NTU-20520000
 5. ADIT TUNNEL PORTAL - BOUNDARY WALL (1)
TD -JIC -IC1 -TDC -B01 -UST -NTU-23410000
 6. SHAFT 2 - RETAINING WALL (2)
TD -JIC -IC1 -TDC -B01 -UST -NTU-16300001
 7. SHAFT 3 - RETAINING WALL (2)
TD -JIC -IC1 -TDC -B01 -UST -NTU-18090000
 8. ADIT TUNNEL - RETAINING WALL (2)
TD -JIC -IC1 -TDC -B01 -UST -NTU-23420000

- GENERAL NOTES**
1. ALL DIMENSIONS ON DRAWINGS ARE SHOWN IN MM UNLESS OTHERWISE SPECIFIED.
 2. DRAWINGS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
 3. ALLOWABLE SBC SHALL BE 16T/SQM OR MORE. THE SAME SHALL BE CONFIRMED BY PLATE LOAD TEST PRIOR TO CONSTRUCTION.
 4. GRADE OF CONCRETE SHALL BE M-35 AS PER IS-456.
 5. GRADE OF REINFORCEMENT SHALL BE Fe500D (IS 1786).
 6. ALL MS STEEL ANGLES SHALL FOLLOW STANDARDS AND GUIDELINES OF IS 808:1989.
 7. COLUMNS REQUIRED FOR OBLIQUE JUNCTIONS WILL BE CAST ON SITE BASED ON APPROVAL OF THE SITE ENGINEER.
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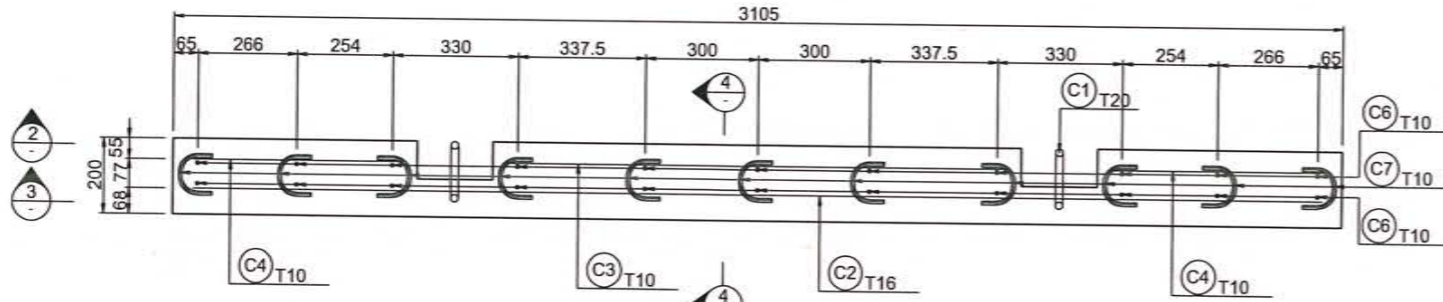
JICA Study Team
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Revised *KA*
Prepared
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Approved *KA*
Date **20 SEP 2019**
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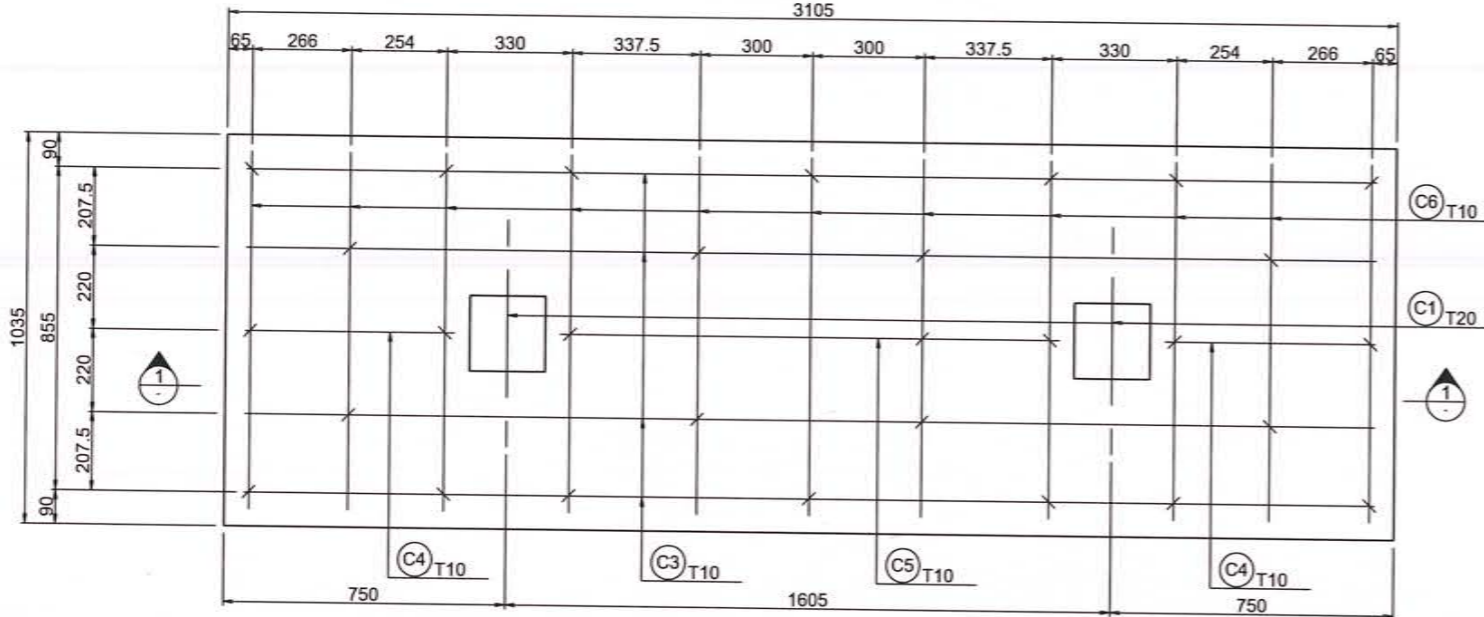
Title
PERMANENT REINSTATEMENT & ASSOCIATED WORKS
(DETAIL OF BOUNDARY WALL ON RETAINING WALL)
Scale
AS MENTIONED @ A1
Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU-00420002

REINFORCEMENT DETAIL OF OPENING COVER S=1:10

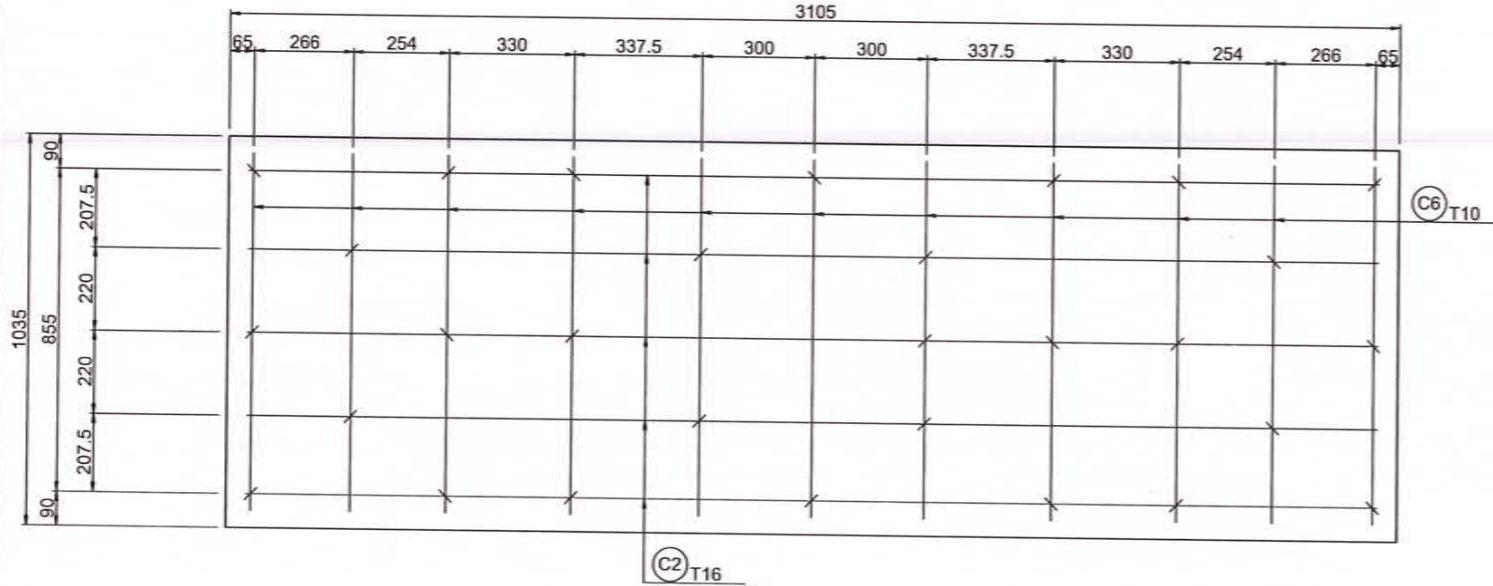
Section 1-1



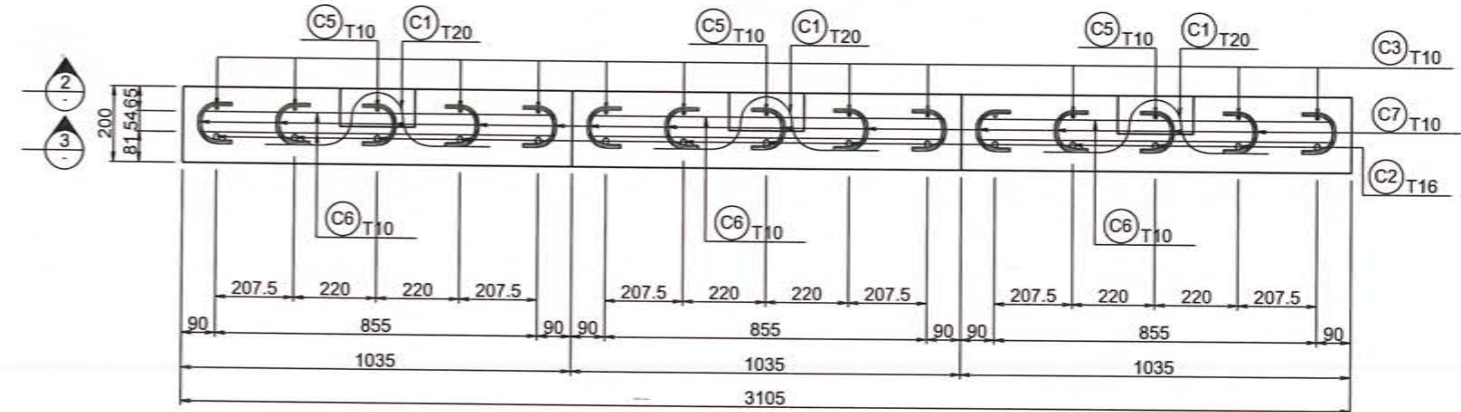
Section 2-2



Section 3-3



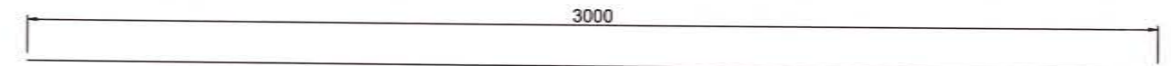
Section 4-4



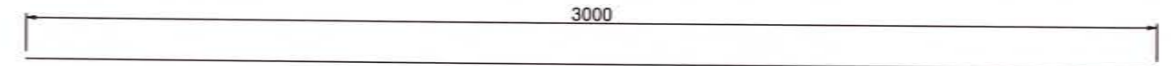
C1 T20 L=757



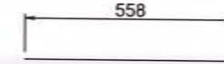
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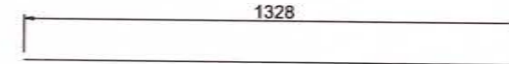
C3 T10 L=3000



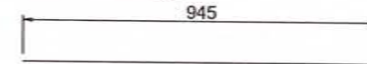
C4 T10 L=558



C5 T10 L=1328



C6 T10 L=945



C7 T10 L=232




Note

- All dimensions are in millimeters unless otherwise mentioned.

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 ORIENTAL CONSULTANTS GLOBAL

Revised	Date
Prepared <i>KA</i>	20 SEP 2019
Checked <i>WZ</i>	20 SEP 2019
Approved <i>Schuster</i>	20 SEP 2019

Title
REINFORCEMENT DETAIL OF OPENING COVER

Scale
S=1:10 @A1

Drawing No.
TD-JIC-IC1-TDC-B01-UST-NTU-15162000

