

TYPICAL SECTION A-A

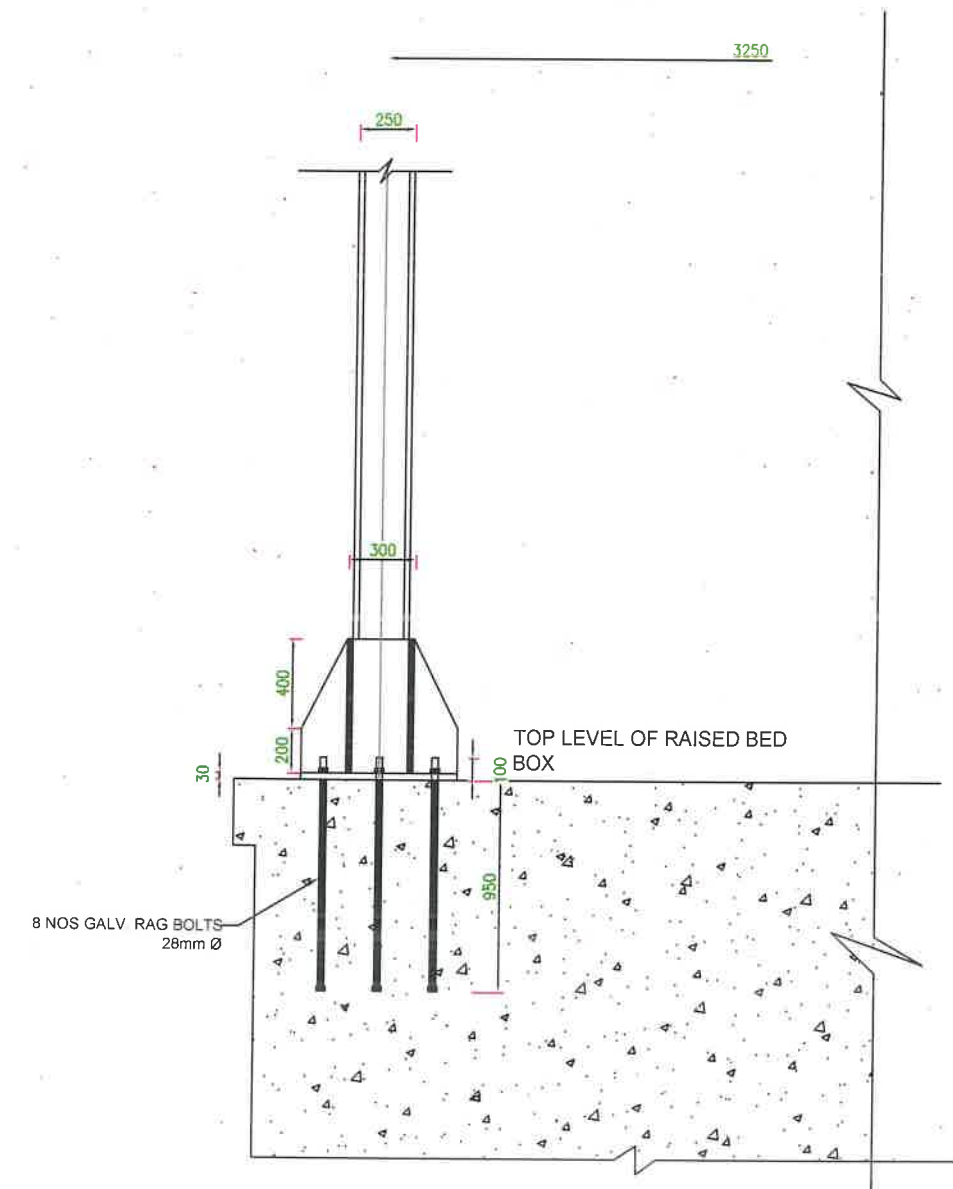
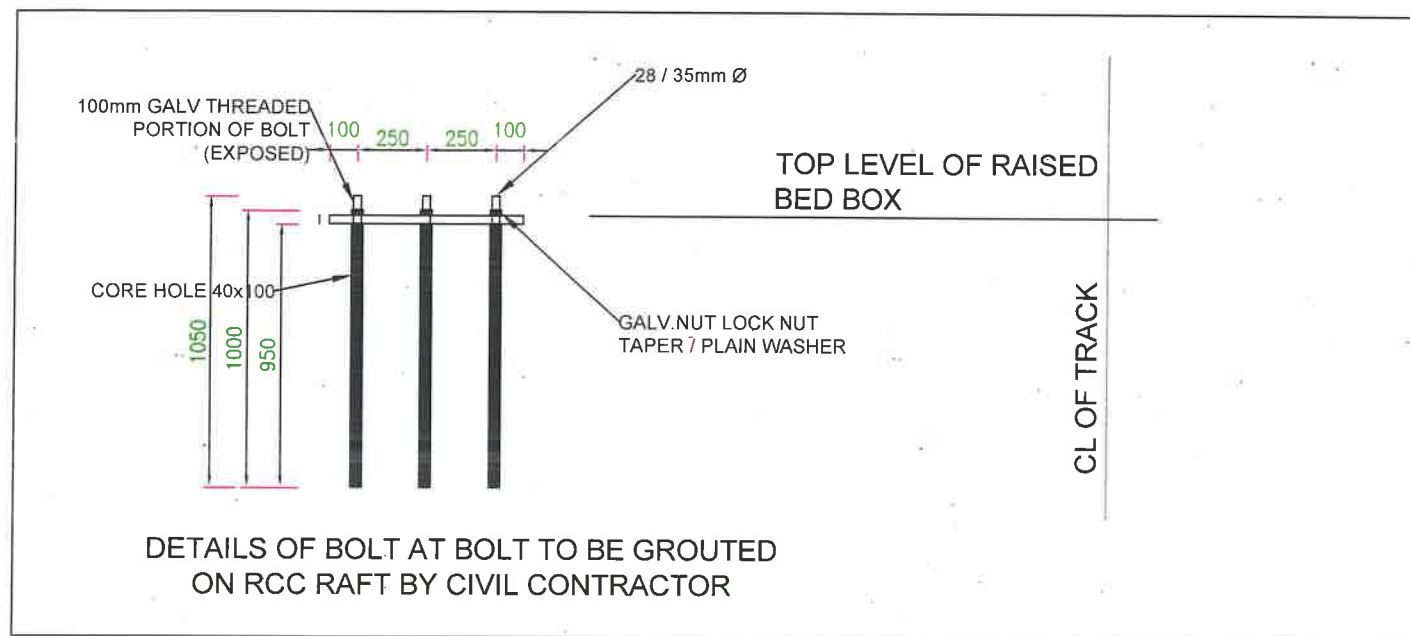
CHART FOR OHE STRUCTURE FOUNDATION

FOUNDARTIO CODE	DIRECT LOAD IN (kg)	BENDING MOMENT IN (kg-m)	DEOTH (H) (m)	VOLUME IN (Cu m)
240	1600	4000	2.8	1.213
245	1600	4500	2.9	1.257
250	1600	5000	3.0	1.301
254	1600	5400	3.0	1.301
260	1600	6000	3.1	1.345
265	1600	6500	3.2	1.389
270	1600	7000	3.3	1.433
275	1600	7500	3.4	1.477
325	3000	2500	2.9	1.257
330	3000	3000	3.0	1.301
340	3000	4000	3.1	1.345
347	3000	4700	3.3	1.433
355	3000	5500	3.4	1.477
363	3000	6300	3.6	1.566
374	3000	7400	3.7	1.610
389	3000	8900	3.9	1.698

NOTES :-

- 1) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2) THE FOUNDATION CONCRETE SHOULD BE OF GRADE M20 WITH CONCRETE FOR GROUTING OF GRADE M30.
- 3) THE CONCRETE SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC COMPRESSIVE CUBE STRENGTH.
- 4) CLEAR COVER TO REINFORCEMENT SHALL BE 75mm.
- 5) THIS DRAWING IS NOT APPLICABLE FOR FOLLOWING
  - a) BLACK COTTON SOIL
  - b) ROCK STRATA.
- 7) ALL THE FOUNDATION SHOULD PROJECT 100 mm ABOVE THE SURROUNDING GROUND LEVEL.
- 8) REINFORCEMENT SHALL CONFORM TO IS : 432 PART-1.
- 10) MAST HEIGHT OF 9.5 m IS CONSIDERED FOR CONVENTIONAL OHE.
- 11) THIS DRAWING HAS BEEN DESIGNED BASED ON RDSO DRG NO. TI/DRG/CIV/FND/RDSO/00002/17/0, Name:- CYLINDRICAL FOUNDATION FOR SIDE BEARING TYPE (FOR CONVENTIONAL OHE) (SBC-11000Kg/m<sup>2</sup>)

for. RE  
Thangir  
SE/OHE



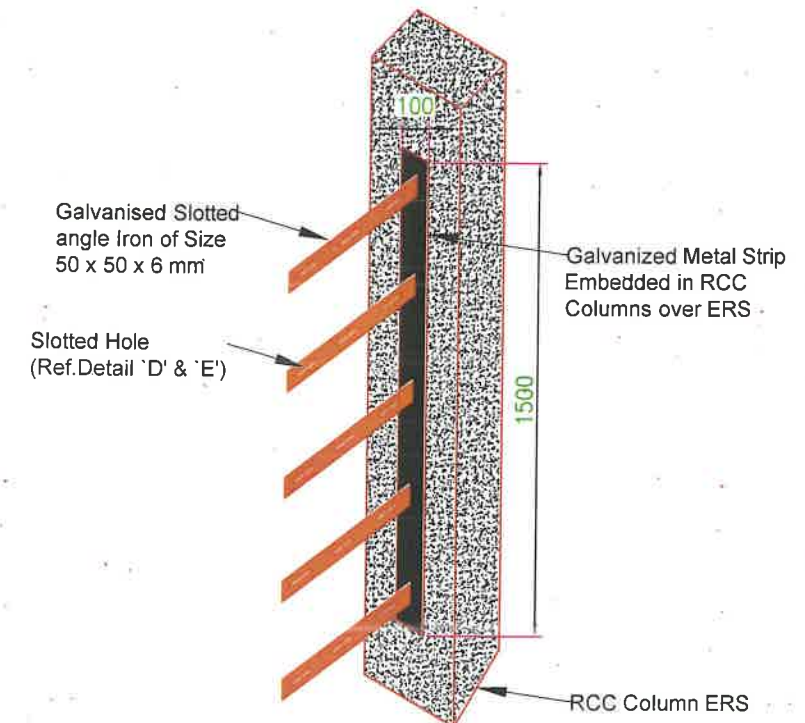
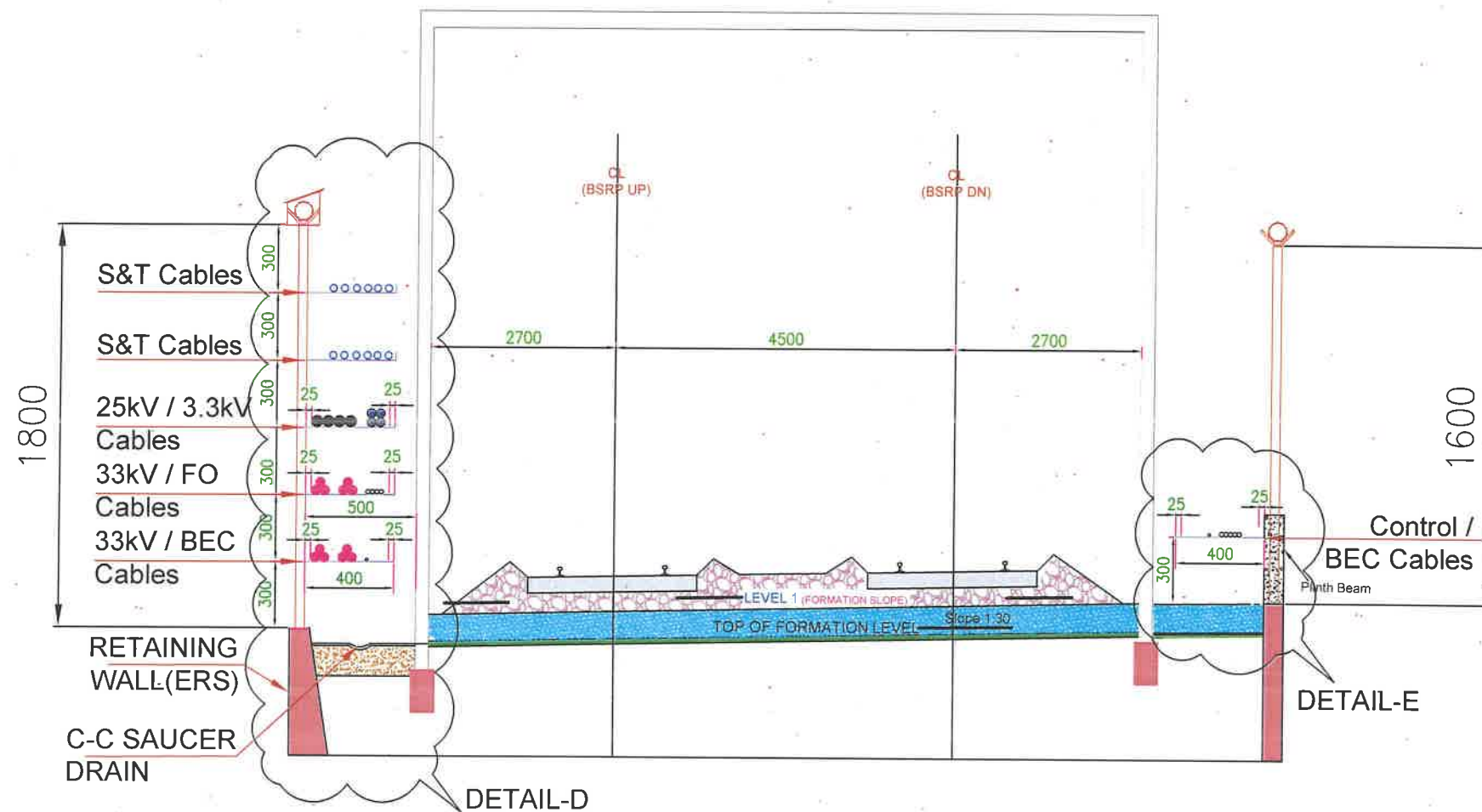
MATERIAL LIST PER BRIDGE MAST		
SL. NO.	DESCRIPTION	DESCRIPTION
1.	GALV. RAG BOLTS, NUTS, LOCK NTS AND APER / PLAN WASHER 28mm Ø 1050mm LONG	16

**SPECIAL NOTE:**

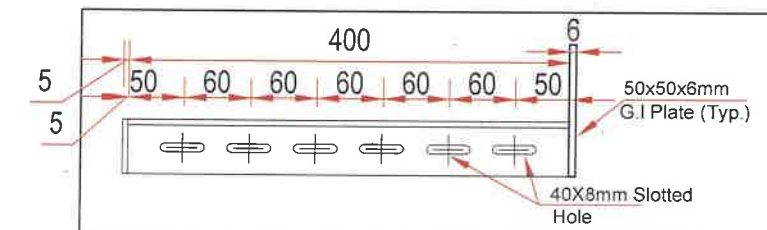
1. THE CONTRACTOR TO PROVIDE "8 NOS. GALVANIZED BOLTS AT EACH FOUNDATION LOCATIONS" IN CUTTING AREA AS PER DETAILS FURNISHED IN ANNEXURE - 1 DULY CARRYING OUT HILTI DRILLING AND FILLING WITH EPOXY AS PER DIRECTIONS OF ENGINEER.
2. HOLDING DOWN BOLT SHALL BE AS PER IS : 2062-92 (GRADE 'A')
3. GROUTING OF HD BOLTS SHOULD BE DONE WITH EPOXY AS PER IS:18001-1999 ALL DIMENSIONS ARE TO BE CHECKED BEFORE EXECUTION OF WORK SO.
4. ALL HOLDING DOWN BOLTS SHOULD BE GALVANIZED (HOT DIP) AS PER RDSO / CORE SPECIFICATIONS.

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.		Client: <b>RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED</b>	
<b>egis AECOM WSP</b> EGIS-AECOM-WSP		Project Title: <b>BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)</b>	
Drawing Title: <b>BOLTING ARRANGEMENTS FOR OHE MAST IN CUTTING SECTION OF CORRIDOR - 2</b>		Project Stage:	
Paper Size: A3 Discipline:		Date: 19.09.2025	
Drawing No:		Sheet 1 of 1 Revision R0	
RE / ELE / GC		Chief, PST / GC	





**CABLE HANGER DETAILS**



**DETAIL-D & E TYPICAL BRACKET DESIGN (SLOTTED HOLE ARRANGEMENT)**

**NOTE:-**

1. GALVANIZED MS BRACKET WILL BE PROVIDED ON VIADUCT THE SPAN OF 1M BY VIADUCT/AT-GRADE CIVIL CONTRACTOR.
2. FIXING ARRANGEMENT FOR BRACKET ASSEMBLY TO BE DESIGNED BY THE CIVIL CONTRACTOR.
3. 25 KV CABLE WILL BE AT NEARBY TO FEEDING POST.
4. CABLE WEIGHT: 2600kg/km(33kV Cable)  
6060kg/km(25kV Cable)  
1600kg/km(3.3kV Cable)  
335kg/km(BEC)  
1800kg/km(Power Socket Cables)  
650kg/km(Lighting Cables)
5. 33 KV CABLE SHALL BE LAID ON UP/DOWN LINE BASED ON THE ASS LOCATION, AND NO CROSSING SHALL BE CONSIDERED AT STATION LEVEL.
6. THIS DRAWING HAS BEEN DESIGNED CONSIDERING THE LOCATION WITH THE MAXIMUM NUMBER OF CABLES.
7. PST CONTRACTOR SHALL MODIFY THE DRAWING AS PER VENDOR DATA AND ACTUAL SITE CONDITIONS.
8. PROVISION FOR CABLE CROSSINGS BY HDPE PIPE SHALL BE MADE BY THE CIVIL CONTRACTOR (AT-GRADE/VIADUCT) BASED ON THE INPUTS PROVIDED BY THE PST CONTRACTOR.
9. THIS DRAWING HAS BEEN DESIGNED FOR BOTH TANGENT AND CURVE LOCATIONS, CONSIDERING THE EFFECT OF CANT ON THE KINEMATIC ENVELOPE.

**NOTE:**

1. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.		Client: <b>RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED</b>	
<b>egis AECOM WSP</b> EGIS-AECOM-WSP		Project Title: <b>BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)</b>	
Drawing Title: <b>TYPICAL CABLE BRACKET ARRANGEMENTS IN AT-GRADE SECTION</b>		Project Stage:	
Paper Size: A3 Discipline:		Date: 19.09.2025 Scale: 1:1000	
Drawing No:		Sheet: 1 of 1 Revision: R0	