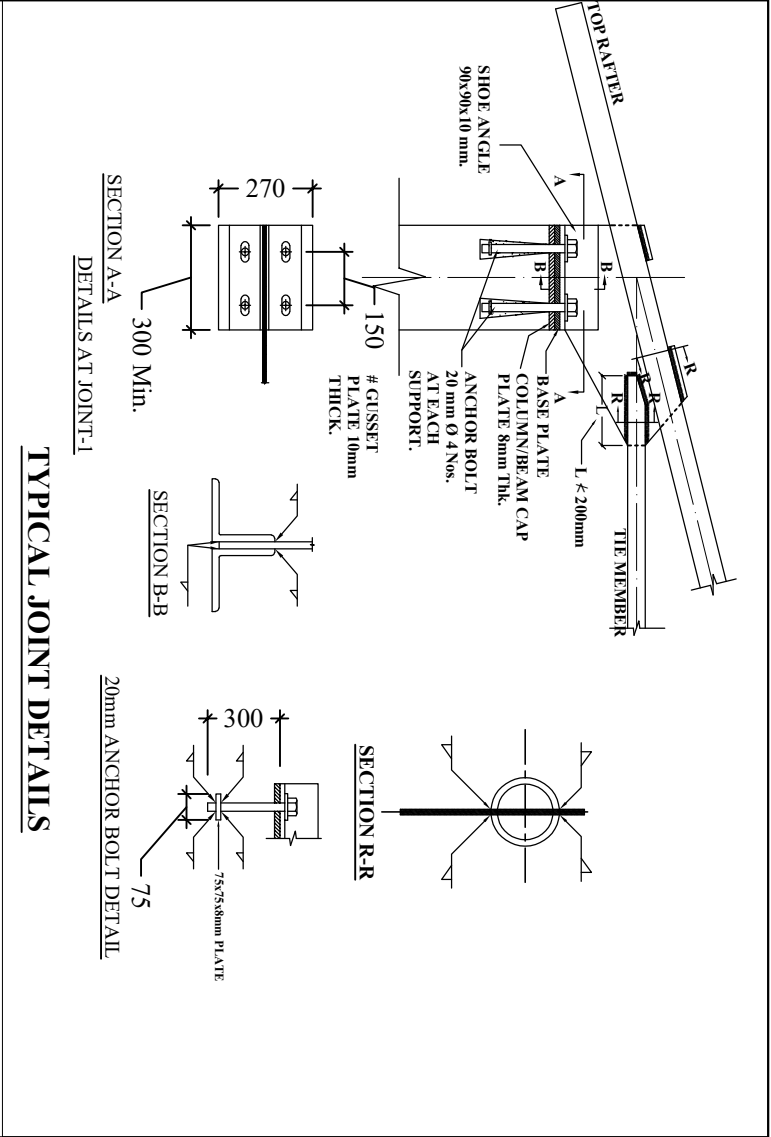
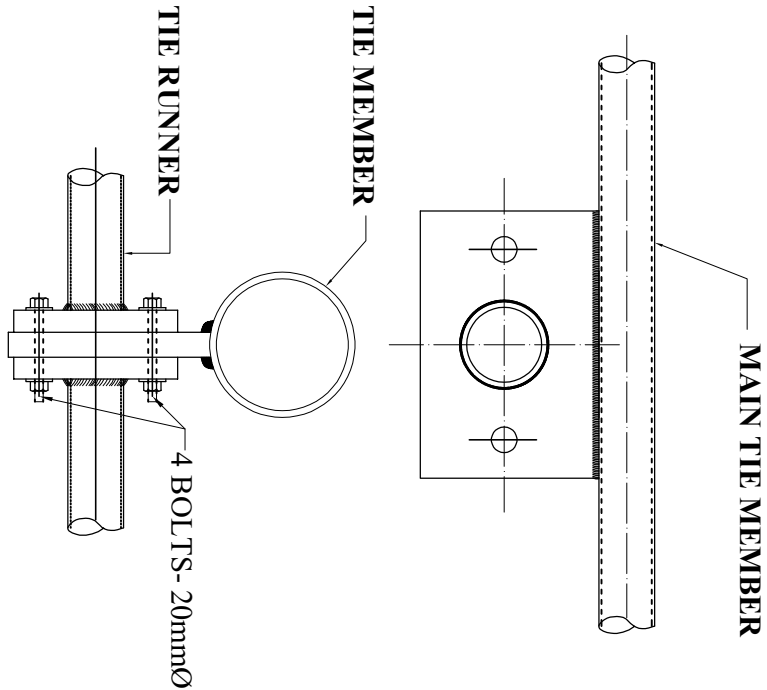
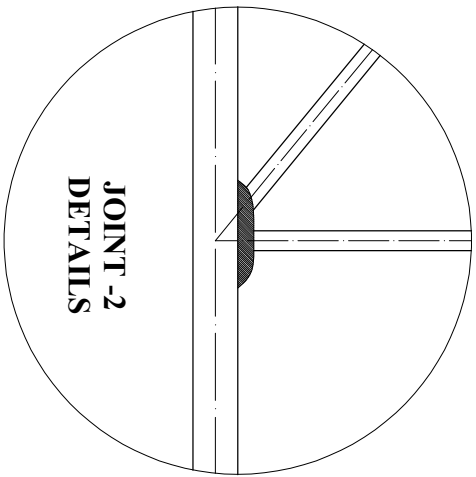




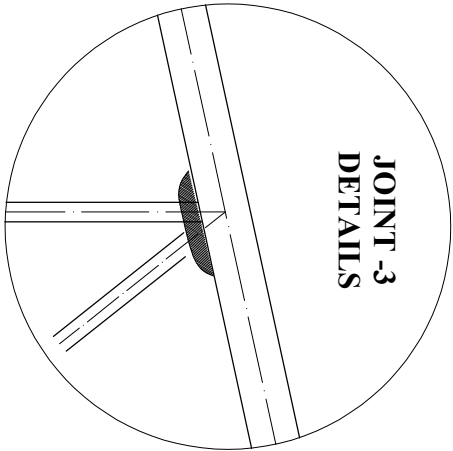
TYPICAL JOINT DETAILS



TYPICAL RUNNER JOINT DETAIL



JOINT -2
DETAILS

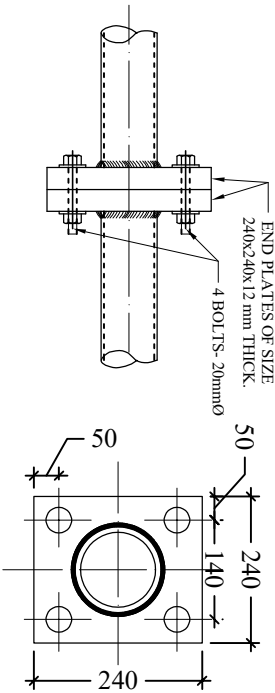


JOINT -3
DETAILS

ADDITIONAL NOTES:-

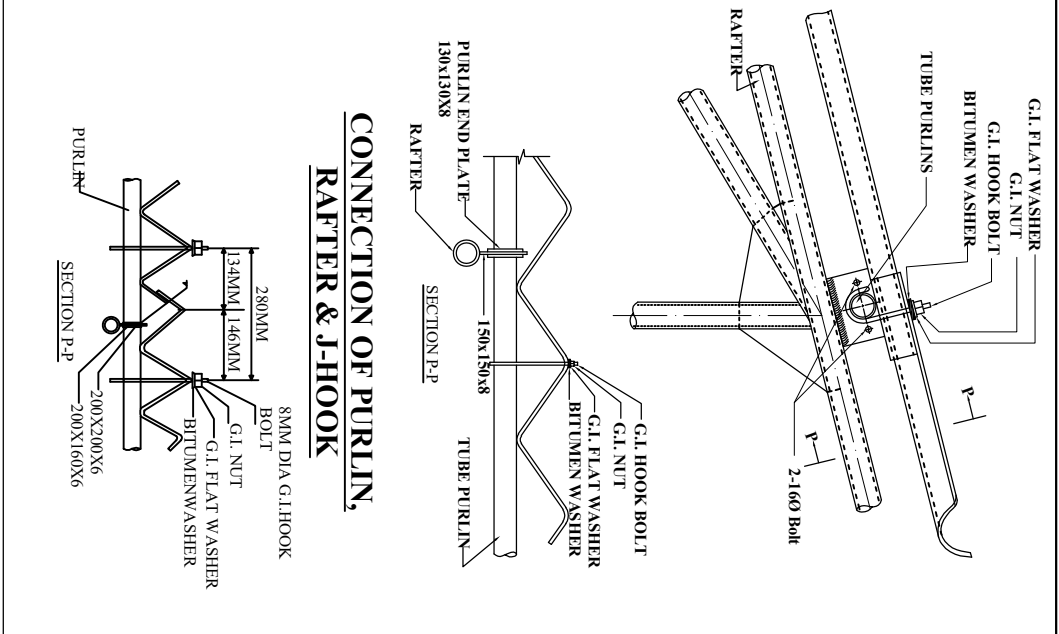
- ALL SHOP CONNECTIONS BETWEEN TUBULAR MEMBERS EXCEPT AT THE RAFTER-TIE JUNCTION AND AT THE JUNCTIONS WITH OVERLAPPING MEMBERS ARE DIRECT CONNECTION WITH WELD AROUND THE PERIMETER OF THE JUNCTION TUBE.
- WHERE AS **FIELD CONNECTIONS**, THE RAFTER JUNCTION JOINTS AND JOINTS HAVING OVERLAPPING MEMBERS ARE MADE USING GUSSET PLATES.

DETAILS OF JOINT IN TIE/RAFTER
MAYBE PROVIDED TO EASE FABRICATION
AND ERECTION AT SITE WHEREVER
REQUIRED.

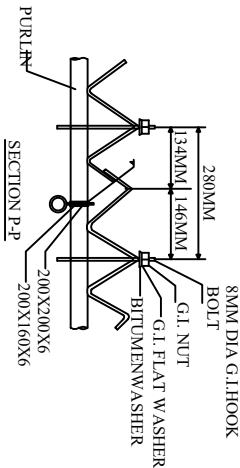


NOTES:-

- GUSSET PLATE THICKNESS= 10mm/16mm
- WELD SIZE:-
FOR TUBES UP TO 25M,32M,40M = 6mm
FOR TUBES UP TO 80M = 8mm
FOR TUBES UP TO 110M = 10mm
- SHOE ANGLES- ISA 90x90x10
- H/D BOLTS - 4Nos. 20mm Dia.



CONNECTION OF PURLIN,
RAFTER & J-HOOK



GENERAL NOTES:-

- THE STEEL TUBE TRUSS SHALL BE FABRICATED IN SHOP, SHOP WELDED WITH FLANGE PLATES BOLTED AT SITE.
- THE TUBE JUNCTION SHALL BE DONE BY WELDING OF TUBE ENDS TO A CURVED PROFILE TO SADDLE ON TO THE LARGER TUBES WITH FILLET WELDING AROUND (PERIPHERAL WELD) THE PERIMETER OF JOINING TUBE.
- ONE BEARING PLATE SHALL BE HAVING SLOTTED HOLE FOR BOLT.
- STEEL TUBE/STEEL SECTIONS SHALL BE APPLIED WITH ONE COAT OF PRIMER BEFORE ERECTION AT SITE.
TUBE DETAILS :- (AS PER IS:1161:1998)

TUBE 80M - M-MEDIUM
OUTSIDE DIA =88.90 mm
WALL THICKNESS=4 mm
UNIT WEIGHT =8.36 Kg/M

TUBE 65M - M- MEDIUM
OUTSIDE DIA =76.1 mm
WALL THICKNESS=3.6 mm
UNIT WEIGHT =6.42 Kg/M

TUBE 50M - M- MEDIUM
OUTSIDE DIA =60.3 mm
WALL THICKNESS=3.6 mm
UNIT WEIGHT =5.03 Kg/M

TUBE 40M - M- MEDIUM
OUTSIDE DIA =48.3 mm
WALL THICKNESS=3.2 mm
UNIT WEIGHT =3.56 Kg/M

8. BOLT SIZE FOR RUNNERS SHALL BE 16mm Ø.
9. FILLET WELDING/PERIPHERAL WELDING TO TUBES THE MIN. SIZE OF WELD SHALL BE 7mm
10. BOLT SIZE FOR END SUPPORT CONNECTION SHALL BE 20mm Ø.
11. GUSSET PLATE IS 8mm THK.
12. PROVIDE A MINIMUM 15° ANGLE BETWEEN TRUSS MEMBER AND GUSSET EDGE.
13. TUBE SHALL BE PROVIDED WITH END PLATES TO PREVENT ENGRESS OF MOISTURE IN THE TUBES.
14. ALL STRUCTURAL STEEL ROLLED SECTION PLATES TUBE SHALL BE CONFIRM TO IS 226-1975,2062-1999, 806-1968 & 816-1969.
15. WELDING SHALL CONFIRM TO IS 816-1969 MINIMUM THROAT THICKNESS SHALL BE 7mm.
16. ALL M.S BLACK BOLT AND NUTS SHALL CONFIRM TO IS 1363 (PR-1 to 3) 1984.
17. DISCREPANCY AMONGST THIS STRUCTURAL DRG. THE CORRESPONDING ARCHITECTURAL DRAWINGS AND THE AGREEMENT ITEM IF ANY, SHALL BE GOT RECONCILED BEFORE EXECUTION.
18. ALL DIAMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
19. NO DIAMENSION ARE TO BE SCALED OUT FROM DRAWING, ONLY FIGURE WRITTEN DIAMENSIONS SHALL BE FOLLOWED.
20. DIAMENSION ARE TO BE VERIFIED AT SITE BEFORE EXECUTION OF WORK.
21. TUBE MEETING AT A POINT SHALL, WHEREVER PRACTICABLE HAVE THEIR GRAVITY AXES MEETING AT A POINT SO AS TO AVOID ECCENTRICITY.
22. WHERE CONNECTION BETWEEN METAL TO METAL CUT EDGES OF TUBES SHALL BE DRESSED TO A NEAT AND WORKMANLIKE FINISH AND BE FREE FROM DISTORTION.
23. ROOF SHEETING SHALL BE AS PER RELEVANT CPWD SPECIFICATIONS.
24. DESIGN OF TRUSS IS BASED ON THE WIND FORCE 200kg/m² AND METAL SHEET ROOFING HAS BEEN CONSIDERED IN DESIGN.
25. WHERE LENGTH OF PURLIN IS EQUAL TO OR MORE THAN 4.0 METRE SAG ROD OF DIA. 12mm AT TWO LOCATIONS EQUALLY SPACED FROM TRUSSES SHALL BE PROVIDED.

Sr. MANAGER (CIVIL)
BCPL, DIBRUGARH.

CHECK BY:-

RE-CHECK BY:-

APPROVED BY.

PROJECT :- C/O RECREATION CENTRE AT
BCPL TOWNSHIP, DIBRUGARH.

TITLE :- ROOF TRUSS DETAILS

DRG.NO. :- Sr.M/BCPL/RC/G+1/07(A)

Prepared By : **SHIVAPRIYAYA
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(A CIVIL ENGG CONSULTANCY).