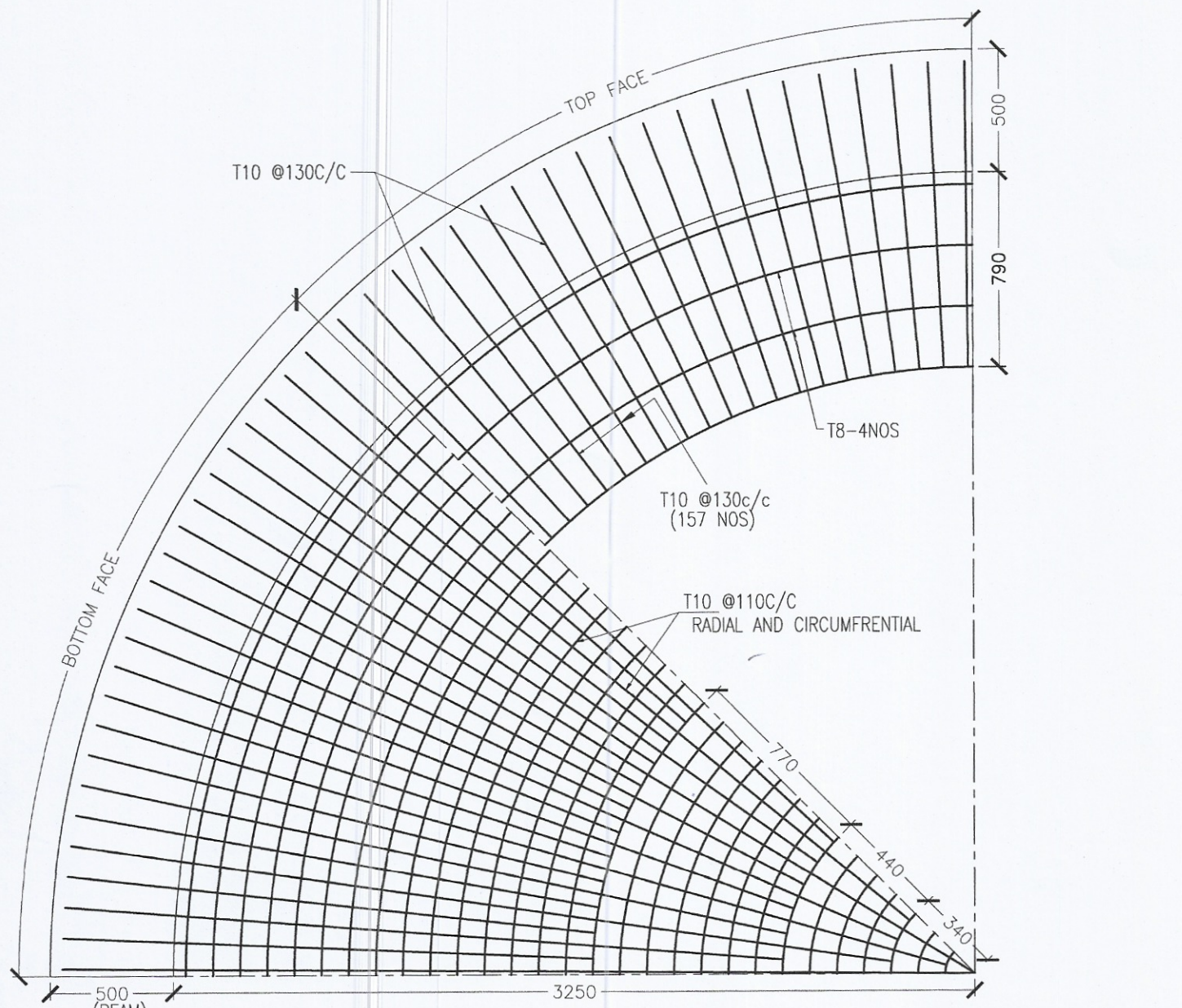
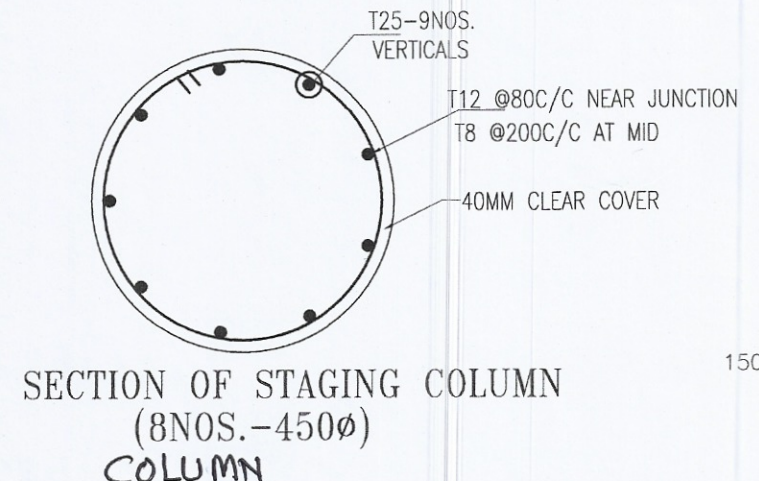
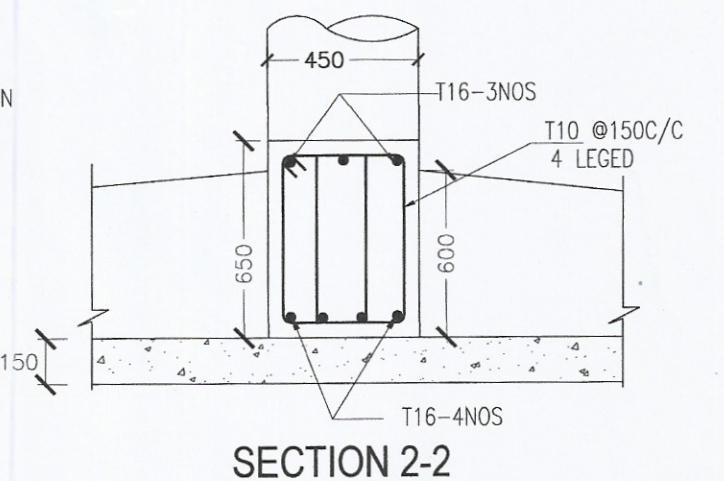




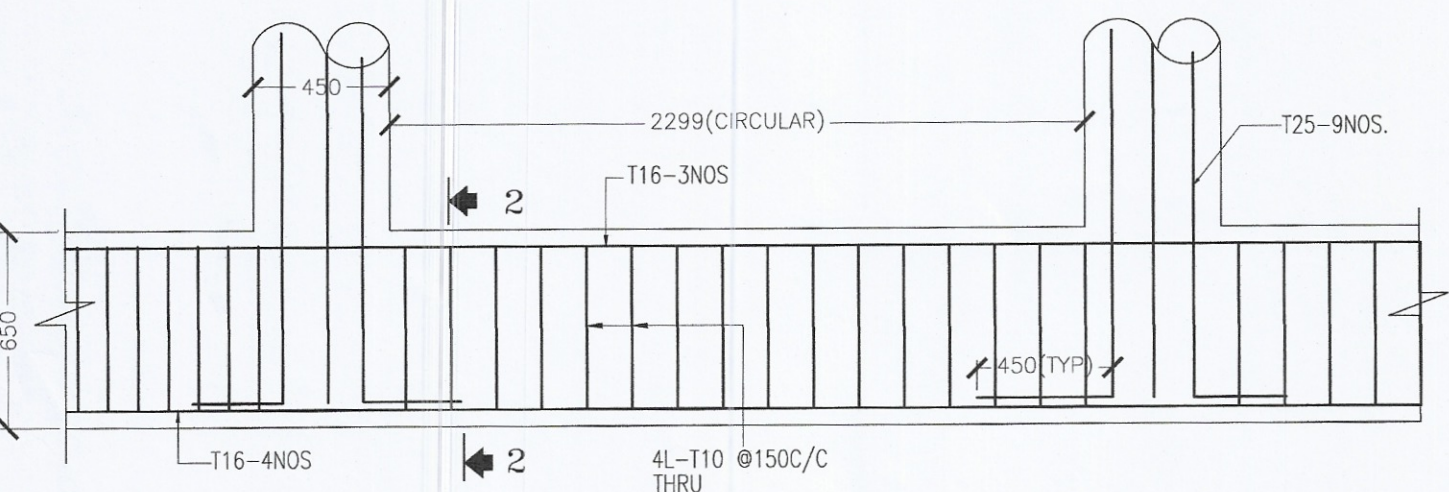
REINF. PLAN OF BOTTOM DOME
SCALE 1:25



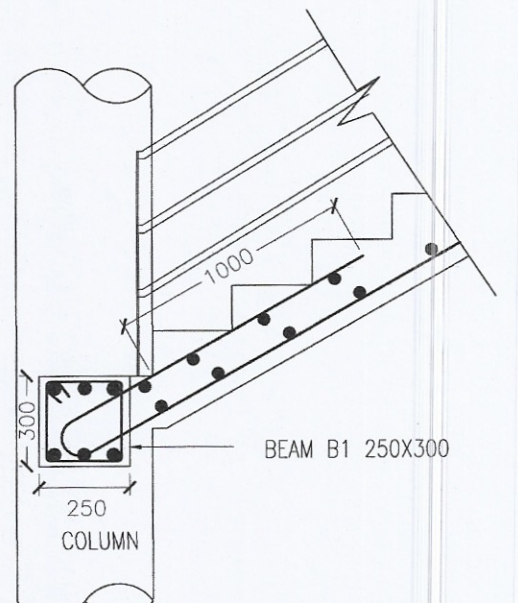
SECTION OF STAGING COLUMN
(8NOS.-450Ø)
COLUMN



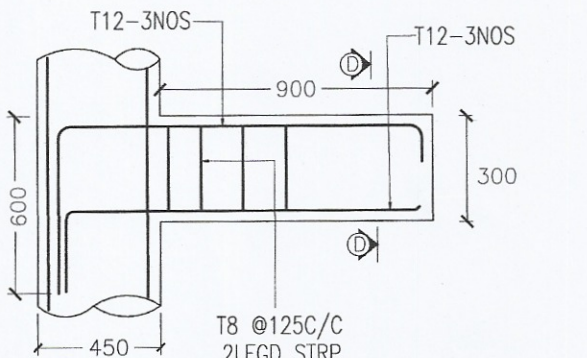
SECTION 2-2
SCALE 1:50



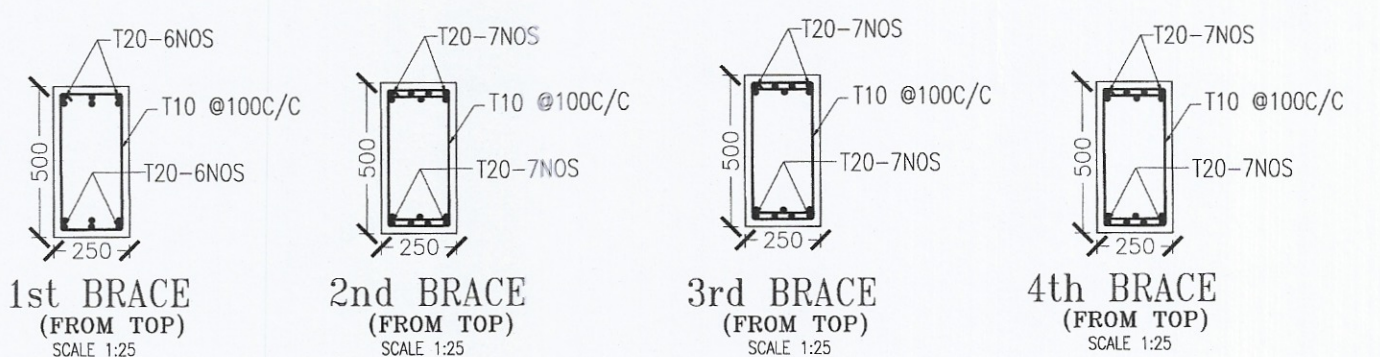
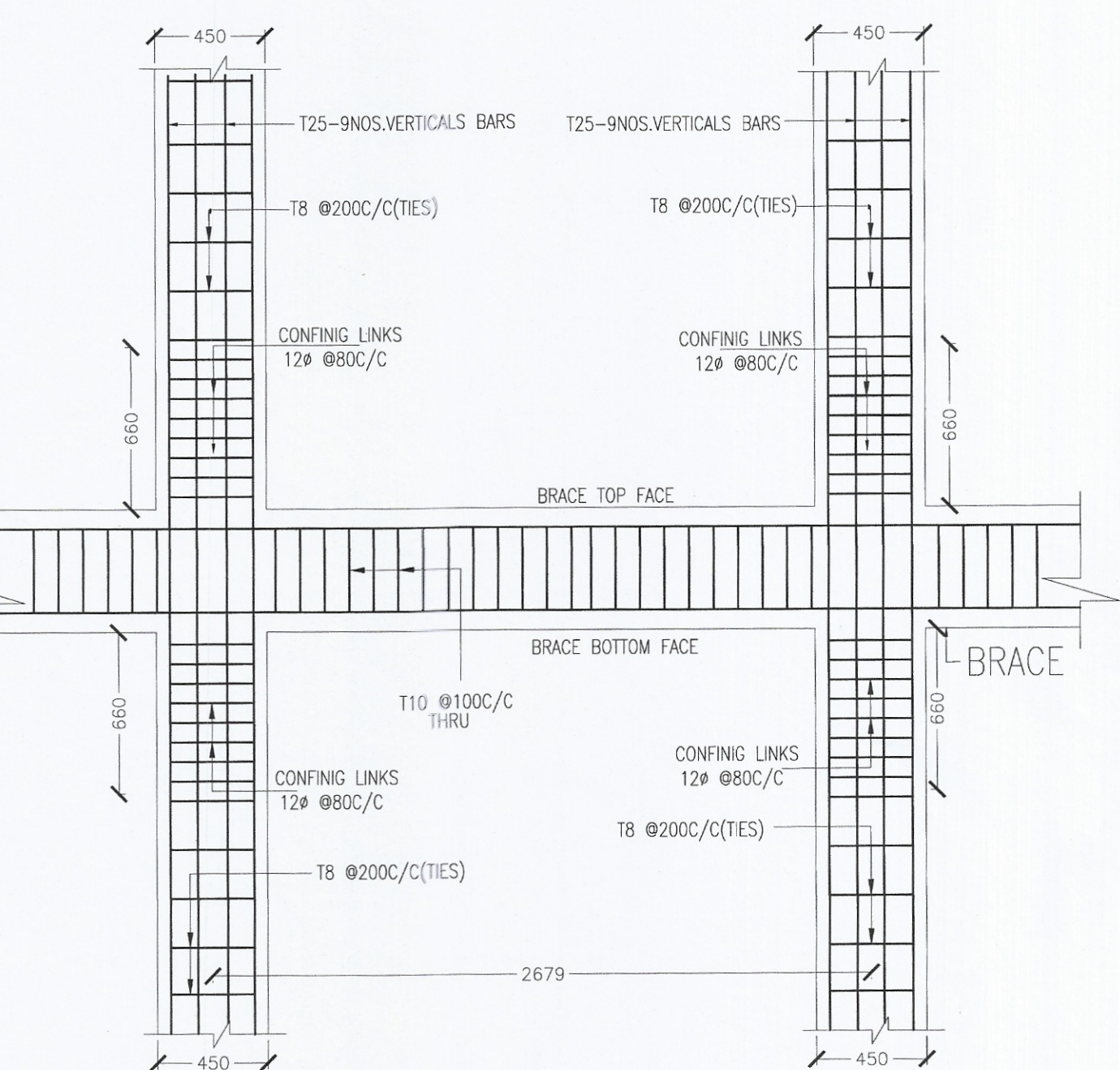
FOUNDATION RING BEAM(450X650)
SCALE 1:50



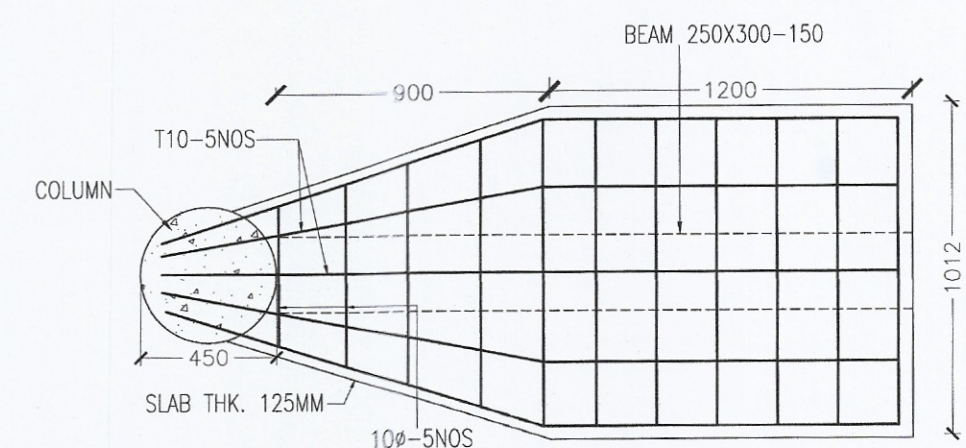
BEAM B1 AT START OF STAIRS (250X300)



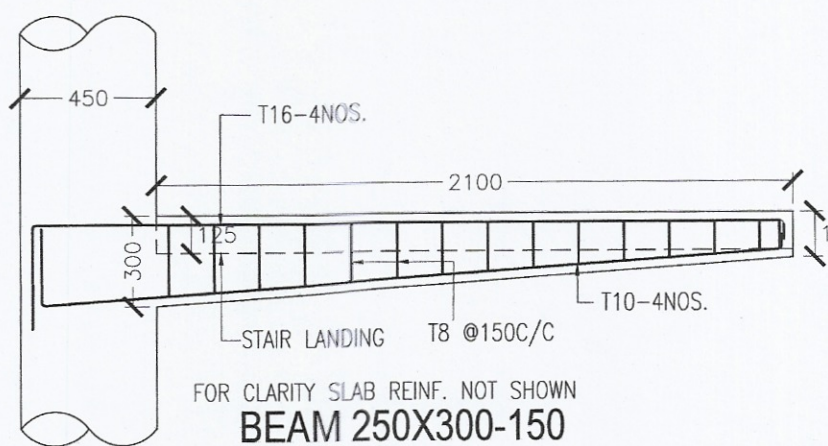
SEC. D-D



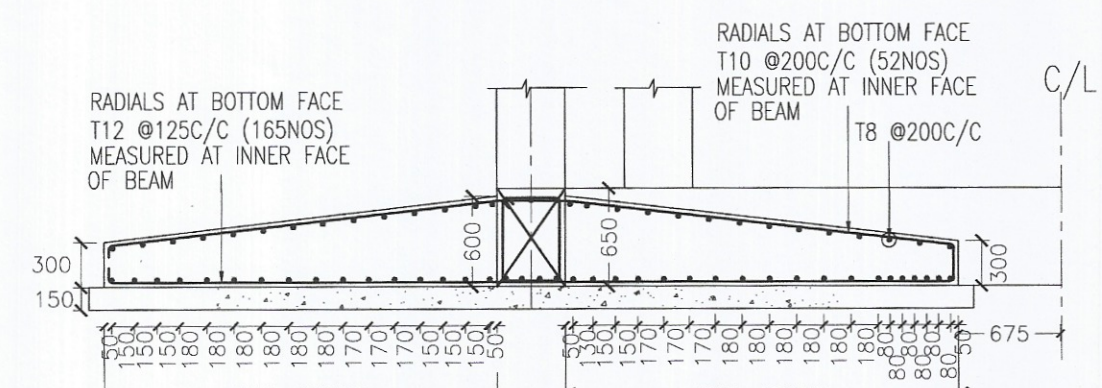
TYP. DETAILS OF COLUMN & BRACE JUNCTION
SCALE 1:50



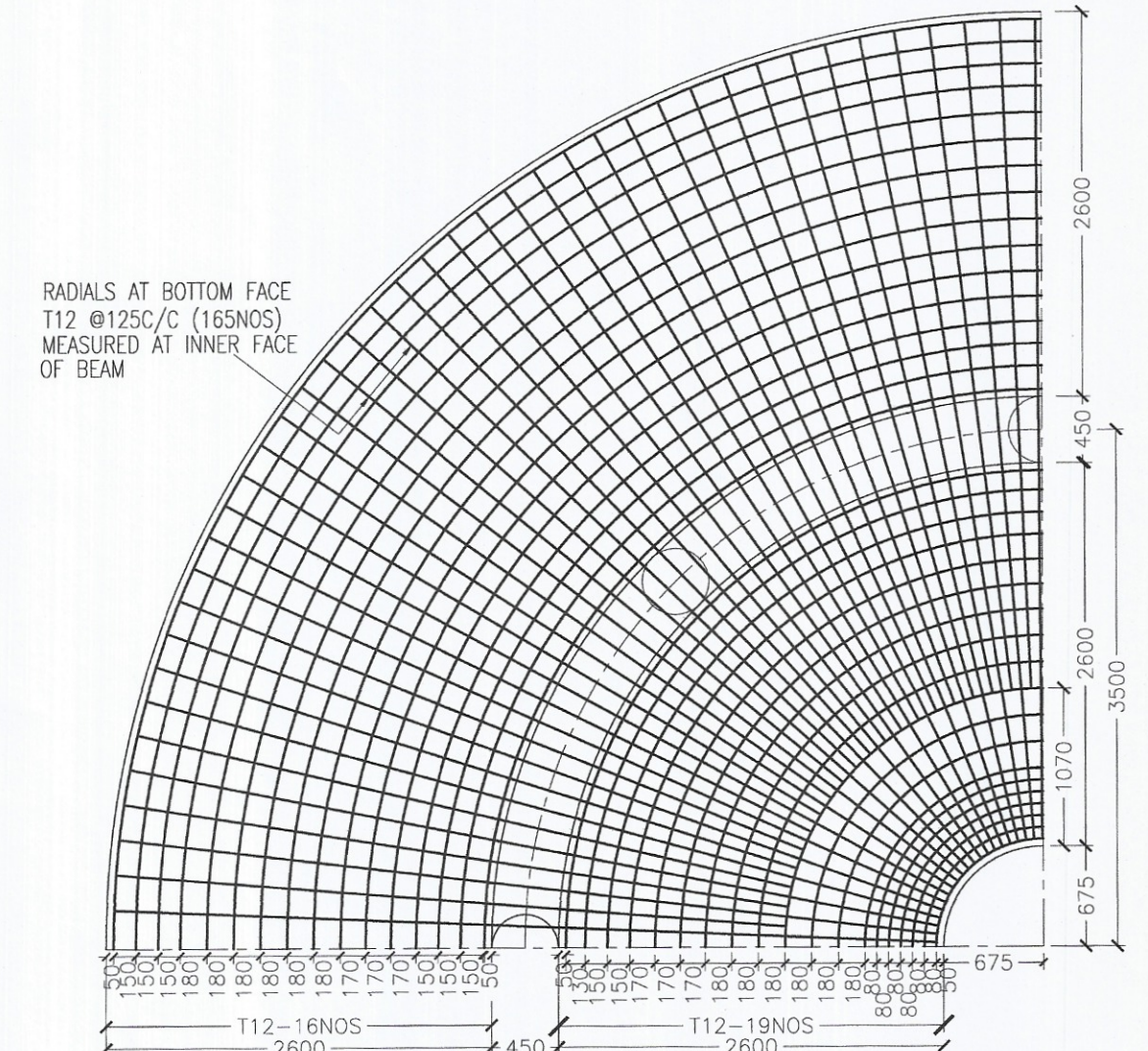
FOR CLARITY BEAM REINF. NOT SHOWN
REINF. DETAIL OF 10th LANDINGS
SCALE 1:25



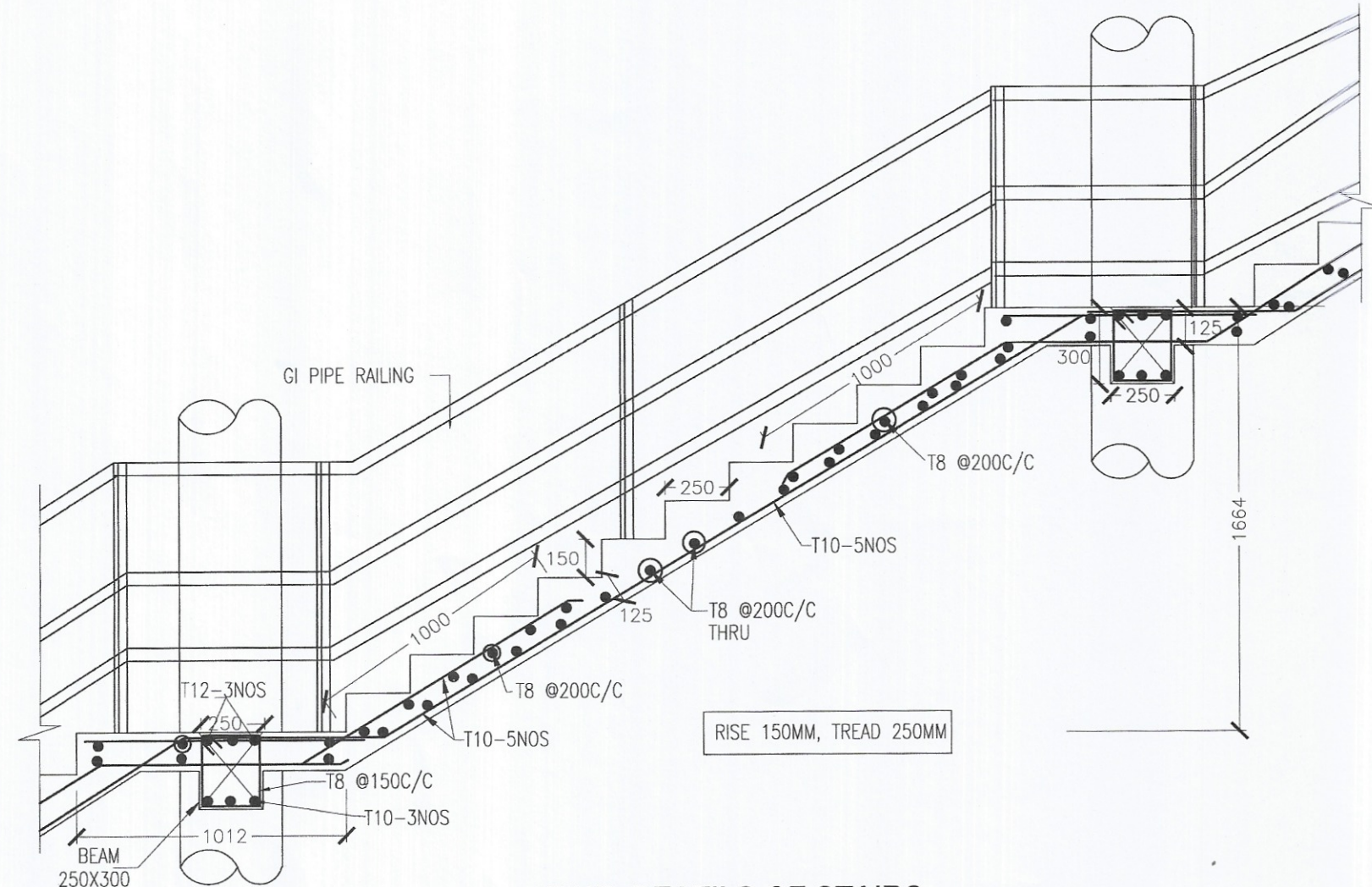
FOR CLARITY SLAB REINF. NOT SHOWN
BEAM 250X300-150
REINF. DETAILS FOR BEAM AT 10th LANDING
SCALE 1:25



FOUND. RAFT SLAB REINF.DETAILS
SCALE 1:50



FOUND. BOTTOM REINF. DETAILS OF RAFT SLAB-PLAN
SCALE 1:50



REINF. DETAILS OF STAIRS
SCALE 1:25

TYPE PLAN NO.: W-48
N.R.H.Q.E. PLAN NO.: H0/15/09-2025
CANCELLED PLAN NO.: H0/1/01-97/R1/R2 (W-40)

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ALL R.C.C WORK SHALL BE IN DESIGN MIX CONCRETE M-35, AS PER IS 456-2000 (CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE).
 - Fe 500 REINFORCEMENT BARS CONFORMING TO IS 1786-2008 TO BE USED.
 - THIS DESIGN IS APPLICABLE FOR SITE WHERE SAFE BEARING CAPACITY IS 8 T/M² AT DEPTH OF 3 M.
 - BASIC WIND SPEED HAS BEEN ASSUMED AS 50 M/S.
 - THE DESIGN HAS BEEN PREPARED FOR SEISMIC FORCES AS PER LATEST CODE IS 1893: PART-1 2016 & PART-2 2014 FOR SEISMIC ZONE-IV.
 - PROPER CURING OF CONCRETE SHALL BE ENSURED TO ACQUIRE HARDNESS, STRENGTH AND OTHER PROPERTIES, ESSENTIAL FOR SATISFACTORY SERVICE.
 - ALL CONCRETE SHALL BE MECHANICALLY MIXED AND VIBRATED.
 - COVER TO REINFORCEMENT SHALL BE NO WHERE LESS THAN THAT SHOWN ON THE PLAN OR AS SPECIFIED IN IS 456-2000.
 - PARTICULAR CARE MUST BE TAKEN TO ENSURE THAT:
 - NO SAG OCCURS IN THE REINFORCING BARS DURING CONSTRUCTION.
 - STIRRUPS ARE EFFECTIVELY TIED WITH WIRE TO THE MAIN REINFORCING BARS.
 - ALL R.C.C WORK MUST BE CARRIED OUT UNDER THE PERSONAL SUPERVISION OF AN SSE/WORKS.
 - IN CASE, SOIL AT SITE IS NOT SAFE FOR THE ASSUMED SOIL PRESSURE, SEPARATE DESIGN TO BE PREPARED.
 - FOR GENERAL REQUIREMENTS AND OTHER INFORMATION, IS 3370: 2021 (PART-1 & PART-2) SHALL BE FOLLOWED.
 - ALL EDGES SHALL BE ROUNDED OR CHAMFERED.
 - DIAMETER OF INLET, OUTLET, OVERFLOW AND CLEANING PIPE MAY BE DECIDED DEPENDING UPON DIAMETER OF RISING MAINS, DISTRIBUTION MAINS ETC.
 - FOR INSULATION OF LIGHTNING CONDUCTOR IS: 2309-1989 (CODE OF PRACTICE OF BUILDING AND ALLIED STRUCTURE AGAINST LIGHTING) MAY BE REFERRED. DETAILS MAY BE WORKED OUT WITH THE CONSULTATION OF LOCAL ELECTRICAL OFFICE.
 - DETAILING OF REINFORCEMENT BARS TO BE AS PER IS : 13920-2016 & IS : 456-2000.
 - ALL TYPES OF JOINTS VIZ. EXPANSION JOINTS / CONSTRUCTION JOINTS (IF ANY) SHOULD BE AS PER IS: 3370-2021. (PART-1)
 - ADEN/XENAXEN SHOULD PERSONALLY INSPECT THE REINFORCEMENT AND SHUTTERING, IT NEEDS TO BE ENSURED THAT SHUTTERING IS WATER-PROOF.
 - SCAFFOLDING AND SHUTTERING ARRANGEMENT SHOULD BE AS PER THE DRAWING NUMBER-N.R.H.Q.E-HQ/16/10-2025.
 - PLEASE REFER SHEET-01/03 & 02/03 OF THE SAME N.R.H.Q.E NO. WITH THIS DRAWING.

NORTHERN RAILWAY

PROJECT: TYPE PLAN OF RCC OVERHEAD TANK 225 KL
CAPACITY WITH 20M HIGH STAGING FOR SEISMIC
ZONE IV (SBC OF 8 T/m²).

DRAWING TITLE: BOTTOM DOME, STAIRCASE AND FOUNDATION DETAILS

SCALE: AS MENTIONED
SHEET SIZE : A1
N.R.H.Q.E PLAN NO. H0/15/09-2025
SHEET NO. - 03/03

STRUCTURAL DESIGNER	PROOF CHECKING CONSULTANT	VETTED BY	NORTHERN RAILWAY HEAD QUARTERS		
THIS STRUCTURAL DESIGN HAS BEEN PREPARED BY ME. THE RESPONSIBILITY OF CONTROL, CHECK AND VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION AND FULL COMPLIANCE OF RELEVANT PROVISION OF CODES AND DBR REST WITH ME.	THESE STRUCTURAL DRAWINGS INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED 100% BY ME. THE SAME IS FOUND SUITABLE FOR THE EXECUTION PURPOSE.	THESE STRUCTURAL DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN CHECKED 100% BY ME. THE SAME IS VETTED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE.	"NOTICE OF NO OBJECTION" FROM NR-HQ IS BEING ACCORDED FOR DESIGN PRINCIPLES BASED ON RECOMMENDATION OF THE PROOF CHECKING CONSULTANTS (ACHINTYA MOHNISH, CEO & DESIGN DIRECTOR, PACIFIC CONSULTANTS, PATNA) AND VETTING BY PROFESSOR R.N.DUBEY(IITR). HOWEVER, THE RESPONSIBILITY FOR DESIGN ACCURACY LIES WITH THE DESIGNER (RAJIV SHARMA, A ONE INFRACONSULTANTS PVT LTD, JAIPUR). OVERALL RESPONSIBILITY FOR PROPER QUALITY WORK AND SAFETY OF THE STRUCTURE WILL BE ON THE EXECUTING AGENCY I.E. CONCERNED SR.DEN		
Rajiv Kumar Sharma	Digitally signed by Rajiv Kumar Sharma Date: 2025.09.29 13:52:01 +05'30'	Structure Design Vetted 30.09.25 प्रो. आर. एन. दुबे / Prof. R. N. Dubey प्रोफेसर / Professor राज. अभियांत्रिकी विभाग प्रो. आर. एन. दुबे 30.09.25	(Akash Deep)	(Suneel Kumar)	(Prabhat Ranjan Singh)
RAJIV KUMAR SHARMA A ONE INFRACONSULTANTS PVT. LTD.	PACIFIC CONSULTANTS, PATNA	PROF. R.N.DUBEY Engineering प्रो. आर. एन. दुबे 30.09.25	SSE/Design	AEN/Design/P&D	Dy. CE/P&D