



TENDER AGREEMENT

This Agreement for **the Construction of 60M Tower Foundation, Radio Hut & Boundary Wall** is made on 2009 (herein referred to as the “Agreement”).

Between;

Dhivehi Raajjeyge Gulhun Private Limited, of Male’, Republic of Maldives (**Employer**);
and

The, Male’, Republic of Maldives (**Contractor**);

Together referred to as the Parties and individually as the Party

Whereas;

The Employer desires the execution of certain Works known as the **Construction of a 60M Tower Foundation, Radio Hut & Boundary Wall at R. Dhuvaaafaru Dhiraagu Site**, AND

The Contractor having examined the tender documents listed in the Appendix, which forms part of this Agreement offers to execute the Works in conformity with the Contract for the total sum of Rf (**only**) or such other sum as may be ascertained under the Contract and agreed on in writing between the Parties.

1 Definitions & Interpretations

1.1 In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

“**Contract**” means the Agreement and the other documents listed in the Appendix.

“**Specification**” means the document as listed in the Appendix, including Employer's requirements in respect of design to be carried out by the Contractor, if any, and any Variation to such document.

“**Drawings**” means the Employer's drawings of the Works as listed in the Appendix, and any Variation to such drawings.

“**Employer**” means the person named in the Agreement and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.

“**Contractor**” means the person named in the Agreement and the legal successors in title to this person, but not (except with the consent of the Employer) any assignee.

“**Party**” means either the Employer or the Contractor.

“**Commencement Date**” means the date 14 days after the date the Agreement comes into effect or any other date agreed between the Parties in writing.

“**day**” means a calendar day.

“**Time for Completion**” means the time for completing the Works as stated in the Appendix (or as extended under Clause 8.3), calculated from the Commencement Date.

“**Cost**” means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges, but does not include profit.

“Contractor's Equipment” means all apparatus, machinery, vehicles, facilities and other things required for the execution of the Works but does not include Materials or Plant.

“Country” means the country in which the Site is located.

“Employer's Liabilities” means those matters listed in Clause 7

“Force Majeure” means an exceptional event or circumstance: which is beyond a Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other Party.

“Materials” means things of all kinds (other than Plant) intended to form or forming part of the permanent work.

“Plant” means the machinery and apparatus intended to form or forming part of the permanent work.

“Site” means the places provided by the Employer where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.

“Variation” means a change to the Specification and /or Drawings (if any) which is instructed by the Employer under Clause 11

“Works” means all the work and design (if any) to be performed by the Contractor including temporary work and any Variation

- 1.2 Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

2 Priority of Documents

- 2.1 The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the Employer shall issue any necessary instructions to the Contractor, and the priority of the documents shall be in accordance with the order as listed in the Appendix.

3 Communications

- 3.1 Wherever provision is made for the giving or issue of any notice, instruction, or other communication by any person, unless otherwise specified such communication shall be written in English language and shall not be unreasonably withheld or delayed.

4 Employer's Responsibilities

- 4.1 The Employer shall provide the Site and right of access thereto at the times stated in the Appendix.
- 4.2 The Employer shall, if requested by the Contractor, assist him in applying for permits licenses or approvals, which are required for the Works.
- 4.3 One of the Employer's personnel shall have authority to act for him. This authorized person shall be as stated in the Appendix, or as otherwise notified by the Employer to the Contractor in writing.

- 4.4 The Employer may also appoint a firm or individual to carry out certain duties. The appointee may be named in the Appendix, or notified in writing by the Employer to the Contractor from time to time. The Employer shall notify the Contractor of the delegated duties and authority of this Employer's representative.

5 Contractor's Responsibilities

- 5.1 The Contractor shall comply with all instructions given by the Employer in respect of the Works including the suspension of all or part of the Works.
- 5.2 The Contractor shall carry out the Works properly in accordance with the Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment which may be required. All Materials and Plant on Site shall be deemed to be the property of the Employer.
- 5.3 The Contractor shall submit to the Employer for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.
- 5.4 The Contractor shall not subcontract the whole of the Works and for the avoidance of doubt the Contractor shall not subcontract any part of the Works without the written consent of the Employer.
- 5.5 If stated in the Appendix, the Contractor shall deliver to the Employer within 14 days of the Commencement Date a Performance Security in a form approved by the Employer.
- 5.6 No approval or consent or absence of comment by the Employer or the Employer's representative shall affect the Contractor's obligations.

6 Design by Contractor

- 6.1 The Contractor shall execute the design to the extent specified and referred to in the Appendix. The Contractor shall promptly submit to the Employer all designs prepared by him. Within 14 days of receipt of such design the Employer shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons.
- 6.2 The Contractor shall not construct any element of the permanent work designed by him within 14 days after the design has been submitted to the Employer or where the design for that element has been rejected. Design that has been rejected shall be promptly amended and resubmitted.
- 6.3 The Contractor shall resubmit all designs commented on taking these comments into account as necessary. The Contractor shall not construct any element of the permanent work designed by the Contractor without prior written approval of the Employer.
- 6.4 The Contractor shall remain responsible for his tendered design and the design under Clause 6.1, both of which shall be fit for the intended purposes defined in the Contract and shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Employer shall be responsible for the Specification and Drawings

7 Employer's Liabilities

7.1 In this Contract, Employer's Liabilities mean:

- a) use or occupation by the Employer of any part of the Works, except as may be specified in the Contract;
- b) design of any part of the Works by the Employer's personnel or by others for whom the Employer is responsible;
- c) a suspension under Clause 9 unless it is attributable to the Contractor's failure;
- d) any failure of the Employer;
- e) physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, which obstructions or conditions were not reasonably foreseeable by an experienced contractor and which the Contractor immediately notified to the Employer;
- f) any delay or disruption caused by any Variation;
- g) losses arising out of the Employer's right to have the permanent work executed on, over, under, in or through any land, and to occupy this land for the permanent work, and
- h) damage which is an unavoidable result of the Contractor's obligations to execute the Works and to remedy any defects.

8 Time for Completion

- 8.1 The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works within the Time for Completion as stated in the Appendix
- 8.2 Within the time stated in the Appendix, the Contractor shall submit to the Employer a programme for the Works in the form stated in the Appendix.
- 8.3 Subject to Clause 11.2, the Contractor shall be entitled to an extension of the Time for Completion if he is or will be delayed by any of the Employer's Liabilities or by a Force Majeure event
- 8.4 On receipt of an application from the Contractor, the Employer shall consider all supporting details provided by the Contractor and shall extend the Time for Completion as appropriate.
- 8.5 If the Contractor fails to complete the Works within the Time for Completion, the Contractor shall be levied with a fine amounting to 1 % per day up to 20% of the total Contracted Value, as stated in the Appendix for each day for which he fails to complete the Works.

9 Taking Over

- 9.1 The Contractor may notify the Employer when he considers that the Works are complete.

- 9.2 The Employer shall notify the Contractor when he considers that the Contractor has completed the Works stating the date accordingly. Alternatively, the Employer may notify the Contractor that the Works, although not fully complete, are ready for taking over, stating the date accordingly.
- 9.3 The Employer shall take over the Works upon the issue of the notification thereto pursuant to Clause 9.2. The Contractor shall promptly complete any outstanding work and clear the Site.

10 Remedying Defects

- 10.1 The Employer may at any time prior to the expiry of the period stated in the Appendix, notify the Contractor of any defects or outstanding work. The Contractor shall remedy at no cost to the Employer any defects due to the Contractor's design, Materials, Plant or workmanship not being in accordance with the Contract.
- 10.2 The cost of remedying defects attributable to any other cause shall be valued as a Variation. Failure to remedy any defects or complete outstanding work within a reasonable time of the Employer's notice shall entitle the Employer to carry out all necessary work at the Contractor's cost.
- 10.3 The Employer may give instruction as to the uncovering and/or testing of any work. Unless as a result of any uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Clause 11.1 (a).

11 Variations and Claims

- 11.1 The Employer may instruct Variations. Variations instructed as such shall be valued as follows:
- a) at a lump sum price agreed between the Parties, or
 - b) where appropriate, at rates in the Contract, or
 - c) in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
 - d) at appropriate new rates, as may be agreed or which the Employer considers appropriate, or
 - e) if the Employer so instructs, at day work rates set out in the Appendix for which the Contractor shall keep records of hours of labor and Contractor's Equipment, and of Materials used.
- 11.2 A Party shall notify the other as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment. The Contractor shall take all reasonable steps to minimize these effects.
- 11.3 The Contractor's entitlement to extension to the Time for Completion or additional payment shall be limited to the time and payment which would have been due if he had given prompt notice and had taken all reasonable steps.

- 11.4 If the Contractor incurs Cost as a result of any of the Employer's Liabilities, Contractor shall be entitled to the amount of such Cost. If as a result of any of Employer's Liabilities, it is necessary to change the Works, this shall be dealt with as a Variation.
- 11.5 The Contractor shall submit to the Employer an itemized make-up of the value Variations and claims within 28 days of the instruction or of the event giving rise to the claim. The Employer shall check and consent to the value. In the absence of such agreement, the Employer shall determine the value.

12 Contract Price and Payment

- 12.1 The Works shall be valued as provided for in the Appendix, subject to Clauses 11.1 to 11.5
- 12.2 The Contractor shall be entitled to be paid at monthly intervals:
- a) the value of the Works executed,
 - b) the percentage stated in the Appendix of the value of Materials and Plant delivered to the Site at a reasonable time and
 - c) subject to any additions or deductions which may be due.
- 12.3 The Contractor shall submit before 10th Day of each month to the Employer a statement showing the amounts to which he considers himself entitled.
- 12.4 Within 28 days of delivery of each statement, the Employer shall pay to the Contractor the amount shown in the Contractor's statement less retention at the rate stated in the Appendix, and less any amount for which the Employer has specified his reasons for disagreement. The Employer shall not be bound by any sum previously considered by him to be due to the Contractor.
- 12.5 The Employer may withhold interim payments until he receives the performance security under Clause 5.5 (if any). The Employer may withhold interim payments upon advice from the Employer's site supervisor to do so due to slow work progress. The Employer's site supervisor may advise to withhold the interim payments only if the Contractor fails to achieve the milestones of the Works set out in the work plan.
- 12.6 The amount of the retention shall be paid by the Employer to the Contractor within 14 days after the expiry of the period stated in the Appendix and the remedying of notified defects or the completion of outstanding work, all as referred to in Clause 10.1, whichever is the later.
- 12.7 Within 28 days after the submission of this final account, the Employer shall pay to the Contractor any amount due. If the Employer disagrees with any part of the Contractor's final account, he shall specify his reasons for disagreement when making payment.
- 12.8 Payment shall be in the currency stated in the Appendix.
- 12.9 The Employer shall make advance payment to the Contractor of the amounts stated in the Appendix within 14 days of submitting the statement for Advance Payment.

The Contractor shall submit the statement for Advance Payment within 28 days after the Commencement Date. If the contract is terminated under the clauses 13.1 or 13.3, the advance payment paid to the Contractor hereunder shall be refunded to the Employer within 14 day of such termination

12.10 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract.

12.11 The advance payment shall be repaid by deducting the amount stated in Appendix from each payment due to the Contractor. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, compensation events, bonuses, or liquidated damages.

13 Default

13.1 If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Employer or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Employer may give written notice referring to this Clause 13.1 and stating the default. If the Contractor has not taken all practicable steps to remedy the default within 14 days after the Contractor's receipt of the Employer's notice pursuant to this Clause 13.1, the Employer may by a second written notice give a further 21 days notice, within which if the default is not remedied the Employer may terminate the Contract. The Contractor shall then demobilize from the Site leaving behind Materials and Plant and any Contractor's Equipment which is to be used until the completion of the Works. The Employer shall instruct the list of items to be left behind under this Clause 13.1 in the second notice.

13.2 If the Employer fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give written notice referring to this Clause 13.2 and stating the default. If the default is not remedied within 7 days after the Employer's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works. If the default is not remedied within 28 days after the Employer's receipt of the Contractor's notice, the Contractor may by a second written notice given within a further 21 days, terminate the Contract. The Contractor shall then demobilize from the Site.

13.3 If a Party is declared insolvent under any applicable law, the other Party may by giving notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of the Contractor's insolvency; any of the Contractor's Equipment which the Employer instructs in the notice to be used until the completion of the Works.

13.4 After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Clause 11.4,
- b) any sums to which the Employer is entitled,

- c) if the Employer has terminated under Clauses 13.1 or 13.3, the Employer shall be entitled to 100% of any advance money paid under clause 12.9 and to a sum equivalent to 20% of the value of those parts of the Works not executed at the date of the termination,

13.5 if the Contractor has terminated under Clause 13.2 or 13.3, the Contractor shall be entitled to the Cost of his suspension and demobilization together with a sum equivalent to 10% of the value of those parts of the Works not executed at the date of termination. The net balance due pursuant to Clause 13.4 shall be paid or repaid within 28 days of the notice of termination.

14 Risk and Responsibility

14.1 The Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Employer's notice under Clause 9.2. Responsibility shall then pass to the Employer. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform to the Contract.

14.2 Unless the loss or damage happens as a result of an Employer's Liability, the Contractor shall indemnify the Employer, the Employer's contractors, agents and employees against all loss or damage happening to the Works and against all claims or expense arising out of the Works caused by a breach of the Contract, by negligence or by other default of the Contractor, his agents or employees.

14.3 If a Party is or will be prevented from performing any of its obligations by Force Majeure, the Party affected shall notify the other Party immediately. If necessary, the Contractor shall suspend the execution of the Works and, to the extent agreed with the Employer, demobilize the Contractor's Equipment. If the event continues for a period of 84 days, either Party may then give notice of termination, which shall take effect 28 days after the giving of the notice. After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- (a) any sums to which the Contractor is entitled under Clause 11.4,
- (b) the cost of his suspension and demobilization,
- (c) any sums to which the Employer is entitled to.

14.4 The net balance due pursuant to Clause 14.3 shall be paid or repaid within 28 days of the notice of termination.

15 insurance

15.1 The Contractor shall, prior to commencing the Works, effect and thereafter maintain insurances in the joint names of the Parties:

- (a) for loss and damage to the Works, Materials, Plant and the Contractor's Equipment,
- (b) for liability of both Parties for loss, damage, death or injury to third parties or their property arising out of the Contractor's performance of the Contract,

including the Contractor's liability for damage to the Employer's property other than the Works, and

- (c) for liability of both Parties and of any Employer's representative for death or injury to the Contractor's personnel except to the extent that liability arises from the negligence of the Employer, any Employer's representative or their employees.

15.2 All insurances shall conform to any requirements detailed in the Appendix. The policies shall be issued by insurers and in terms approved by the Employer. The Contractor shall provide the Employer with evidence that any required policy is in force and that the premiums have been paid.

15.3 All payments received from insurers relating to loss or damage to the Works shall be held jointly by the Parties and used for the repair of the loss or damage or as compensation for loss or damage that is not to be repaired.

15.4 If the Contractor fails to effect or keep in force any of the insurances referred to in the Clause 15.1, or fails to provide satisfactory evidence, policies or receipts, the Employer may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such default and pay the premiums due and recover the same as a deduction from any other monies due to the Contractor.

16 Resolution of Disputes

16.1 The Parties shall endeavor to settle all disputes by mutual consent failing which the matter shall be referred to the relevant Court of Laws in Maldives

Acceptance

16.2 The Employer has, by signing below, accepted the Contractor's offer and agrees that in consideration for the execution of the Works by the Contractor, the Employer shall pay the Contractor in accordance with the Contract. This Agreement comes into effect on the date when the Contractor receives one original of this document signed by the Employer.

SIGNATURE (On behalf of the Employer)

Signature: _____ Date: 2009.

Seal/Stamp:.....

Name: Ismail Rasheed

Capacity: Chief Executive

Authorised to sign on or behalf of: Dhiraagu

WITNESS (On behalf of the Employer)

Signature: _____ Date: 2009.

Name: Mohamed Hazmath Abdulla

Capacity: Head of Procurement & Property Management

SIGNATURE (On behalf of the Contractor)

Signature: _____ Date: 2009.

Seal/Stamp:.....

Name:

Capacity:

Authorised to sign on or behalf of:

WITNESS (On behalf of the Contractor)

Signature: _____ Date: 2009.

Name: _____

ID Card No: _____

APPENDIX

This Appendix forms part of the Agreement.

[Note: with the exception of the items for which the Employer’s requirements have been inserted, the Contractor shall complete the following information before submitting.]

Item	Sub-Clause	Data
Documents forming the Contract listed in the order of priority	1.1, 2.1	(a) The Agreement (b) The Appendix (c) The Specification & Scope of works (d) The Drawings (e) The Bill Of Quantities
Time for Completion	8.1 Days
Law of the Contract		Laws of Maldives
Language		English
Provision of Site	4.1	7 days of after sign
Authorized Person	4.3	-----
Name and address of Employer’s representative (if known)	4.4	-----
Performance Security (if any);	5.5	(Not Applicable)
Performance Security Amount	5.5	(Not Applicable)
Performance Security Form	5.5	(Not Applicable)
Requirements for Contractor’s design (if any)	6.1	Specification Clause Nos ----- -----
Time for submission of Programme for Works	8.2	Within 03 days of the Commencement Date.
Form of Program	8.2	Microsoft Project or similar
Amount payable due to failure to complete	8.5	1 % per day up to 20% of the Contracted Value
Period for notifying defects	10.1	365 Days
Day work rates	11.1 e	(Not Applicable)
Lump sum price with bill of quantities	11.1 a	Tenderer may vary quantities in the provided bill of quantities before submitting the tender.
Percentage of value of Materials and Plant	11.2, 12.2 b	Materials - 0% Plant - 0%

Item	Sub-Clause	Data
Percentage of retention	12.4	5 %
Retention Period	12.6	365 Days
Currency of Payment	12.8	Maldivian Rufiya (MRf)
Percentage of Advance payment	12.9	20 %
Advance payment recovery	12.11	20 % from each payment
Insurance Cover (The works, materials, plant & fees)	15.2	(Not Applicable)
Insurance Cover (Contractor's Equipment)	15.2	(Not Applicable)
Insurance Cover (Third party injury to persons and damage to property)	15.2	(Not Applicable)
Insurance Cover (workers)	15.2	(Not Applicable)
Insurance Cover (Other)	15.2	(Not Applicable)



SPECIFICATION & SCOPE OF WORKS

CONSTRUCTION OF 60M TOWER FOUNDATION, RADIO HUT, & BOUNDARY WALL

R. DHUVAAFARU - DHIRAAGU TELECOM SITE

1. SPECIFICATION

1. Construction of Tower Foundation, and a Radio Hut as per the drawings.
2. Concrete mixing ratio **1:2:3**
3. Lean concrete mixing ratio **1:3: 6**
4. Mortar mixing ratio **1:5** for masonry and **1:4** for plastering and **1: 6** for blocks
5. River sand (fine/coarse) and aggregate shall be used for all masonry and concrete works of the walls.
6. Portland cement (indo-cement or equivalent) shall be used for all masonry and concrete works.
7. Water used for construction shall be clean and free from salt and other impurities.
8. Use full blocks (size **150mm x 150mm x 300mm**) after giving proper curing time in a cool area (not exposed to direct sunlight).

2. SCOPE OF WORKS

1- CONETRUCTION WORK

SITE LOCATION: (Raa. DHUVAAFARU)

The following works shall be carried out as per the attached drawings:

- a) Construction of 60m TOWER FOUNDATION
- b) Construction of RADIO HUT

a) TOWER FOUNDATION WORK:

60m tower foundation shall be constructed as per the given detail drawings, which include:

- Lean concrete
- Mass concrete bottom layer
- Four columns
- Four walls
- Laying pvc bends and pipes (4", 2") inside FDN walls as per the radio hut drawing.
- Sand filling (Back filling) inside tower foundation walls
- Make 16 nos. ventilating holes (0.5" Dia) (4 nos each side) @ 1m distance around wall 1ft below the top edge, cover the holes inside with coarse aggregate with a volume (8x8x8)"
- Top seat concrete works using steel mesh.
- There shall be 4 expansion joints of 25mm (width) around four tower legs & corners.
- Apply bituminous paint mentioned in paint to all concrete surfaces below ground level.
- Apply 2 coats floor paint as mentioned in paint on the top surface of tower FDN (veranda of Radio hut)

Note:-

- 1) The concrete mixing (additives) [e.g.; 'RHEOMAC 707'] shall be used for all concrete works
Reinforcing steel bars for tower foundation are provided by Dhiraagu.
- 2) Use BOSS PU 25 -Urethane Sealant- (available at MITTS) for Expansion joint material.

b) RADIO HUT WORK:

A “Radio Hut” is to be constructed inside and top bottom mass concrete part of 60m tower foundation as per the drawing set, and include the following:

- Foundation and floor slab
- Four columns
- Roof slab
- Four masonry walls
- A feed through opening of (500x500)mm
- PVC bends & Pipes for (4”,2”) & cable junctions as per the drawing
- Two Air conditioner of 18,000btu (DAIKIN – Inverter) with isolator switches out side
- One door (D1) of white powder coated aluminium with a good quality door closer.
- Electrical works (include concealed conduit, wiring, sockets, switches & lights,& air conditioner 18000btu as per the drawing set)

Note:-

The concrete mixing (additives) [e.g.; ‘RHEOMAC 707’] shall be used for all concrete works
Reinforcing steel bars for Radio Hut all concrete works shall be by the contractor

c) PAINT:

1. EXTERIOR WALLS:

PRIMER COAT: Apply one coat WALL SEALER (Nippon) 5170 [oil base]
FINISHIN COAT: Apply two coats DURA FRESH (Nippon) BS 10B15 (Off white)

2. INTERIOR PAINT WALLS:

PRIMER COAT: Apply one coat WALL SEALER (Nippon) 5101
FINISHIN COAT: Apply two coats MEDI FESH (Nippon) 3106 (Lily White)

3. FLOOR PAINT: (For tower foundation top surface)

Apply 2 coats SIGMA RITE GP FINISH paint (code: 3250 -Grey) + Thinner (91-92).

4. BITUMINOUS PAINT [MASTERSEAL 420]:

(For tower foundation lean, walls below ground level & under the radio hut foundation)

Apply two coats on lean concrete surface and all concrete columns and walls-in & out- below the ground level of the tower foundation.

d) SITE BOUNDARY WALL WORK:

Construction of site boundary wall of **82.156 m length with** a masonry wall up to 3ft height fixed with GI pipes and chain link mesh (PVC coated mesh gauge-8) as per the site boundary drawings provided by Dhiraagu.

e) ENTRANCE GATE:

Two entrance gates (1) shall be of GI pipes open inward complete with hinges and locking arrangements and a lock as per the foundation layout drawing.

GATE PAVE: Paving along the gates shall be of 100mm (thick) above ground, 1.6m (Breadth), the length shall be the measurements between two outer edges of gate columns.

The paved area shall be painted with floor paint 2 coats SEAMASTER 9097 (Nippon) – Dark Grey.

f) PAINT:

5. EXTERIOR WALLS:

PRIMER COAT: Apply one coat WALL SEALER (Nippon) 5170 [oil base]
FINISHIN COAT: Apply two coats DURA FRESH (Nippon) BS 10B15 (Off white)

6. METAL PAINT: (For Boundary wall GI pipes)

PRIMER COAT: Apply one coat ACTIVE PRIMER 120 + HARDNER
FINISHING COAT: Apply two coats MARINE PAINT (Nippon) BS 0-010 (Emerald Green).

7. FLOOR PAINT: (concrete surface of gate pave area)

Apply 2 coats “NIPPON” paint SEAMASTER 9097 – Dark grey.

Note:-

- 1) The concrete mixing (additives) [e.g.; 'RHEOMAC 707'] shall be used for all concrete works
- 2) Use BOSS PU 25 -Urethane Sealant- (available at MITTS) for Expansion joint material.

g) PAINT:

8. INTERIOR PAINT WALLS:

PRIMER COAT: Apply one coat WALL SEALER (Nippon) 5101

FINISHIN COAT: Apply two coats MEDI FESH (Nippon) 3106 (Lily White)

9. FLOOR PAINT: (For tower foundation top surface)

Apply 2 coats SIGMA RITE GP FINISH paint (code: 3250 -Grey) + Thinner (91-92).

10. BITUMINOUS PAINT [MASTERSEAL 420]:

(For tower foundation lean, walls below ground level & under the radio hut foundation)

Apply two coats on lean concrete surface and all concrete columns and walls-in & out- below the ground level and under the floor slab of power house.

2- DAILY SITE CLEANING

- a) The contractor should dispose all the waste materials daily and keep the working area clean after finish the day's work before departure.

3- CLEARANCE OF SITE ON COMPLETION

On completion of the work the contractor shall remove his equipment and surplus materials and shall clear all the rubbish arising out of the works and shall leave the site clean and in a workmanlike condition

4- MATERIALS, EQUIPMENT & OTHER SUPPLIERS

The contractor shall:

- a) Be responsible for purchasing and moving of all required materials to required locations at own expense.
- b) Supply/arrange tools, equipment, all manpower and transportation for such items required for the completion of the works specified in this contract at his expense.
- c) Arrange storage for the materials and any required safe sheltering as necessary at his expense.
- d) Be responsible for all damages to property around and at the site arising from accident or errors by the contractor's staff.

Dhiraagu will provide:

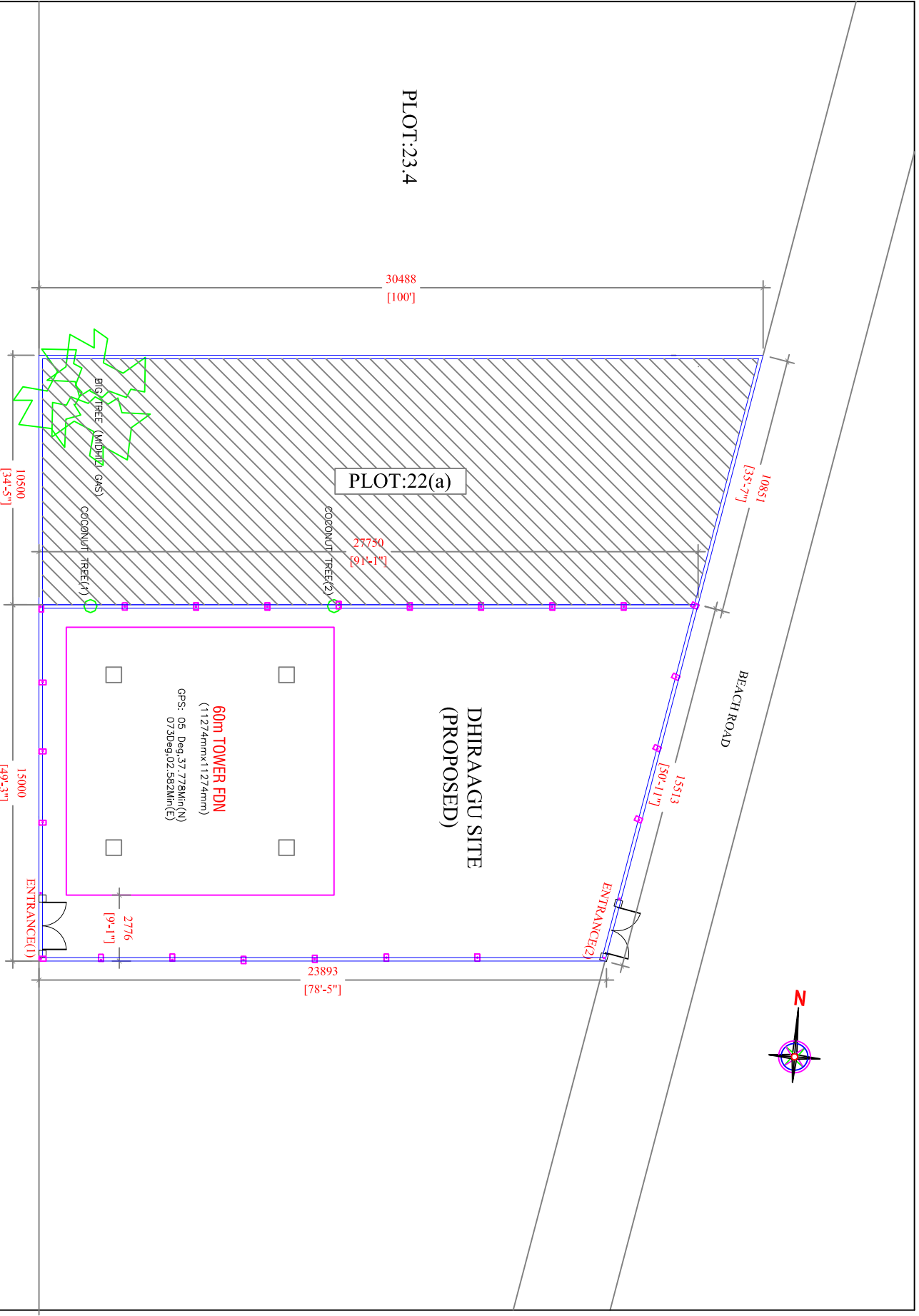
1. Dhiraagu will supervise the work and provide any other support wherever necessary.

End of Specification

*Site Development
Raa. Dhuvaaafaru – Dhiraagu Site*

SITE LAYOUT

Tender No.: DHR/TENDER/008/2009



PLOT:22(a)

Area not used (left for the big tree)

OP-7

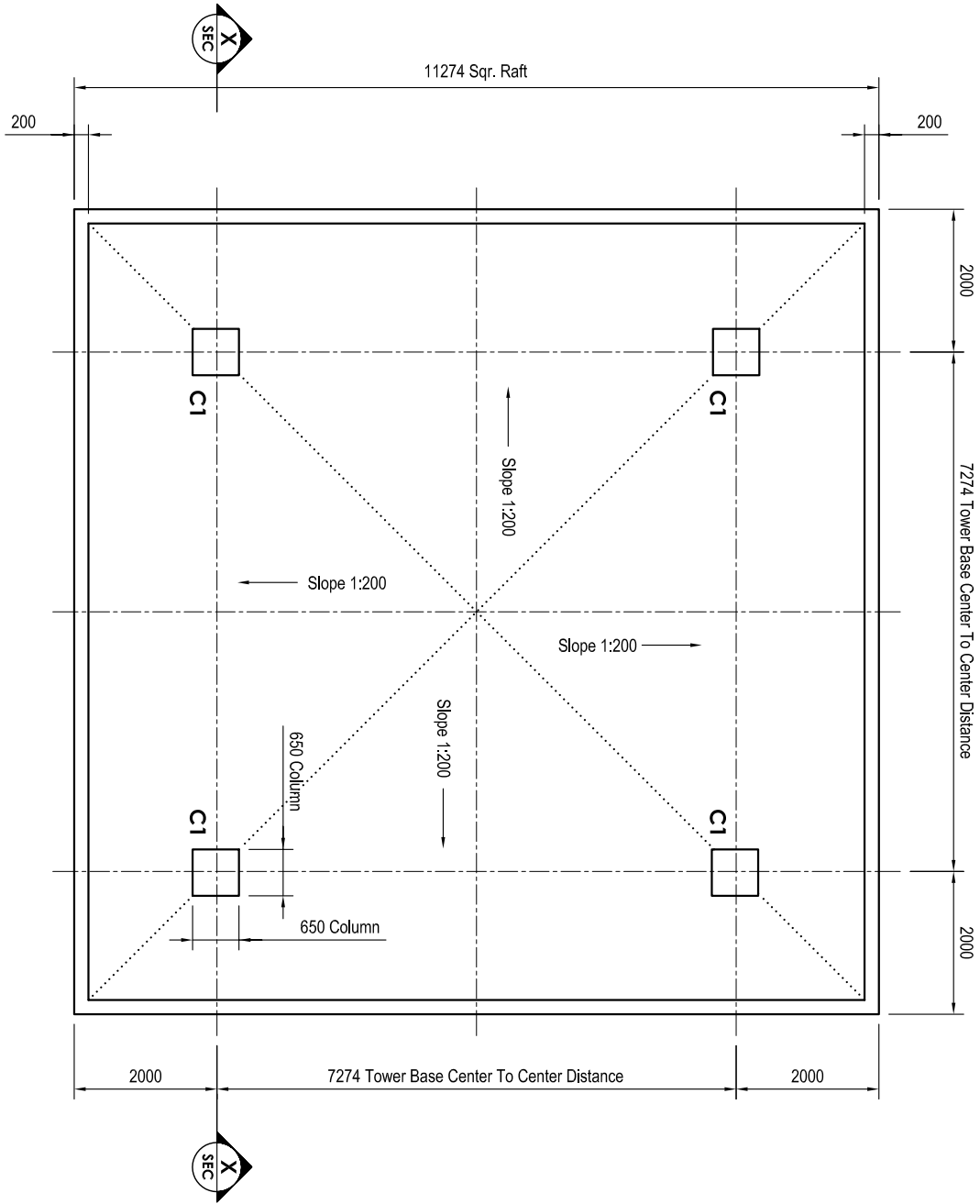


PROJECT (TITLE):		TOWER FDN / SHELTER / BOUNDARY WALL		DESCRIPTION	
SOURCE	POWER & INFRASTRUCTURE- DHIRAAGU	DRAWN BY	EASA	DATE	11/01/2009
CHECKED BY	MOOSA A MAMIK	REVISION	01	DRAWING NUMBER	DH/P1/DHUVAAFARU/07
Raa DHUVAAFARU - DHIRAAGU SITE					

*Site Development
Raa. Dhuvafaru – Dhiraagu Site*

TOWER FOUNDATION & SHELTER DRAWINGS

Tender No.: DHR/TENDER/008/2009



Details of Foundation - 60M-4L

- NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 2. GRADE OF CONCRETE TO BE G25 (23 (20mm)) (NOMINAL MIX BY VOLUME) SLUMP TO BE 150MM.
 3. CONCRETE COVER OF 50MM SHALL BE PROVIDED OVER ANY PART OF THE REINFORCEMENT.
 4. SCREED CONCRETE SHALL BE 1:3:6 (25MM)
 5. CHARACTERISTIC STRENGTH OF STEEL R/F TO BE 480MPa
 6. SOIL FILL TO BE LATERITE >18 KN/CUM. COMPACTED TO 95% PROCTOR DENSITY.

REV	DESCRIPTION	DATE	BY	CHKD	APPD
01	ISSUED FOR APPROVAL	14/02/05	DSR		
00	PRELIMINARY ISSUE	14/02/05	DSR		

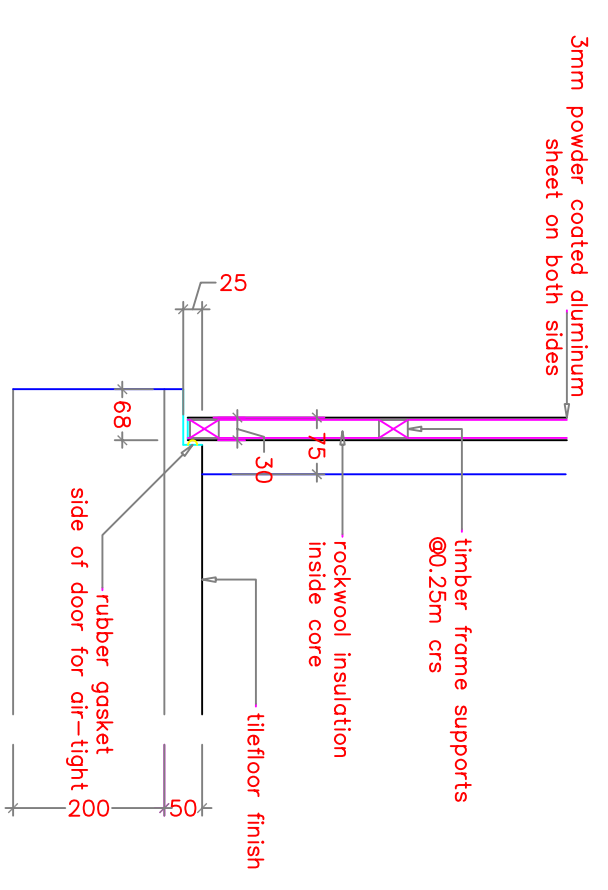
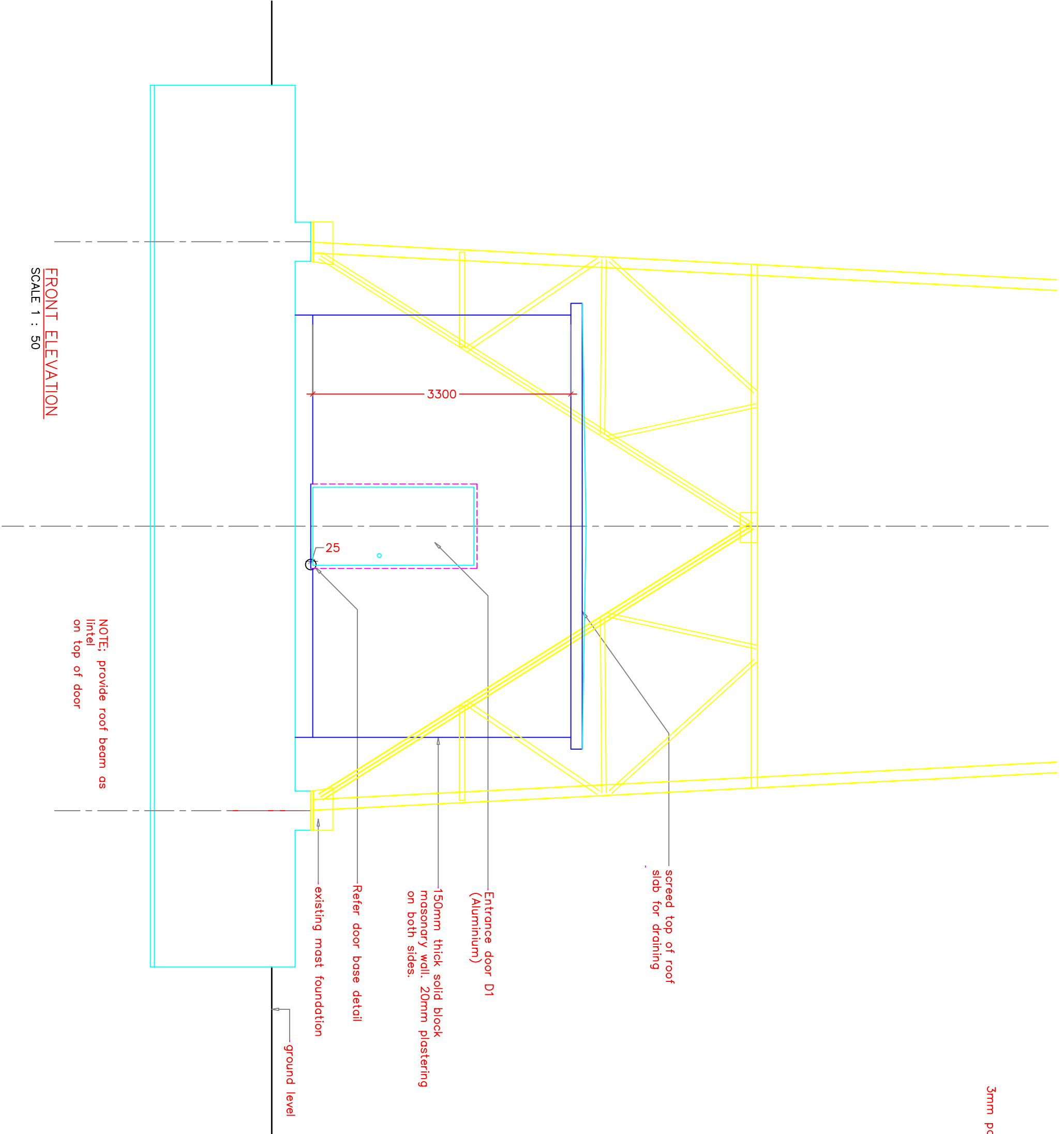
Reb Mech (Pvt) Ltd.
 168/10, Nawala Road, (Sri Jayawardenapala Mawatha) Nugegoda, Sri Lanka.
 Contact: 0094 11 4022356-7 Fax: 0094 11 4022358-8 877369

**Details of Tower Foundation
 60M-4L Self Supporting Tower**

CLIENT
 Dhiraagu - Maldives

DRAWN BY: D.S. RAJAKKSE
 DESIGNED: T.L.R.T.SILVA
 B.Sc. Eng. (Hons) MEng. (Eng. MIE(SL))

DATE: 04/09/2005
DRAWING NUMBER: REB/60M/HD/070 SH/ 01 OF 02 REV/ 01

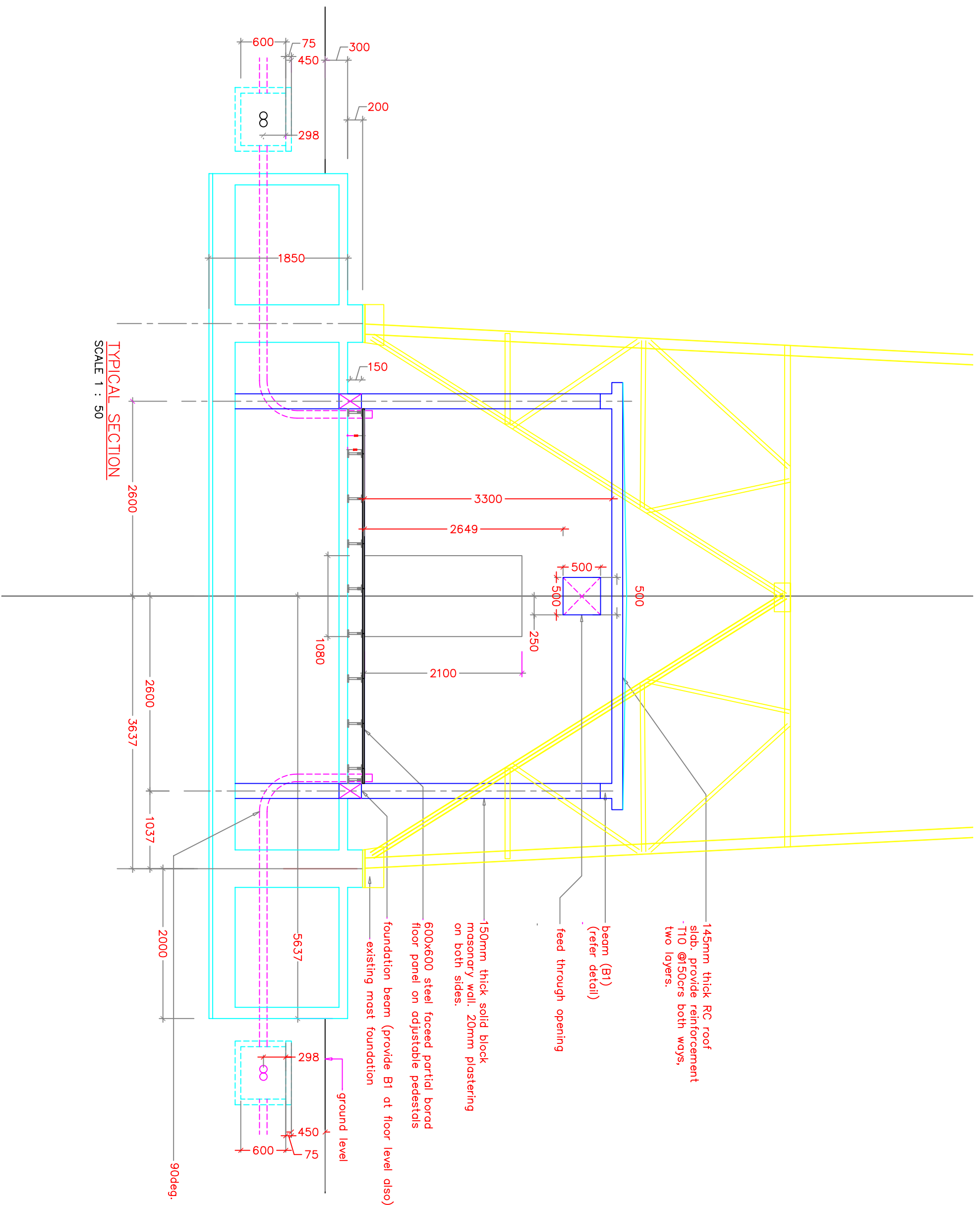


AMMENDMENTS.

Issued	Date	Description

PROJECT:	RADIO HUT - Roa. DHUYAAFARU
CLIENT:	DHIRAAGU / P&I
Contents:	FLOOR PLAN
Scales GIVEN	
Drawn by:	MN Proj. No. DT - 76/2008
Checked by:	MS Dwg No. 02/06
Date:	DEC. 2008 Issue :
Design 2000 Pte. Ltd. Architects, Engineers 14A, Mandoope, Violet Nagar, Male 20017, Maldives Tel: 3317966, Fax: 3317962, email: mail@design2000.com.mv	

DO NOT SCALE, ORIGINAL SIZE IS - A3



TYPICAL SECTION
SCALE 1 : 50

AMMENDMENTS.

Issue	Date	Description

PROJECT: RADIO HUT -
Rtd. DHUVAAFARU

CLIENT: DHIRAGU / P&I

Contents:
FLOOR PLAN

Scales GIVEN

Drawn by: MN | Proj. No. DT - 76/2008

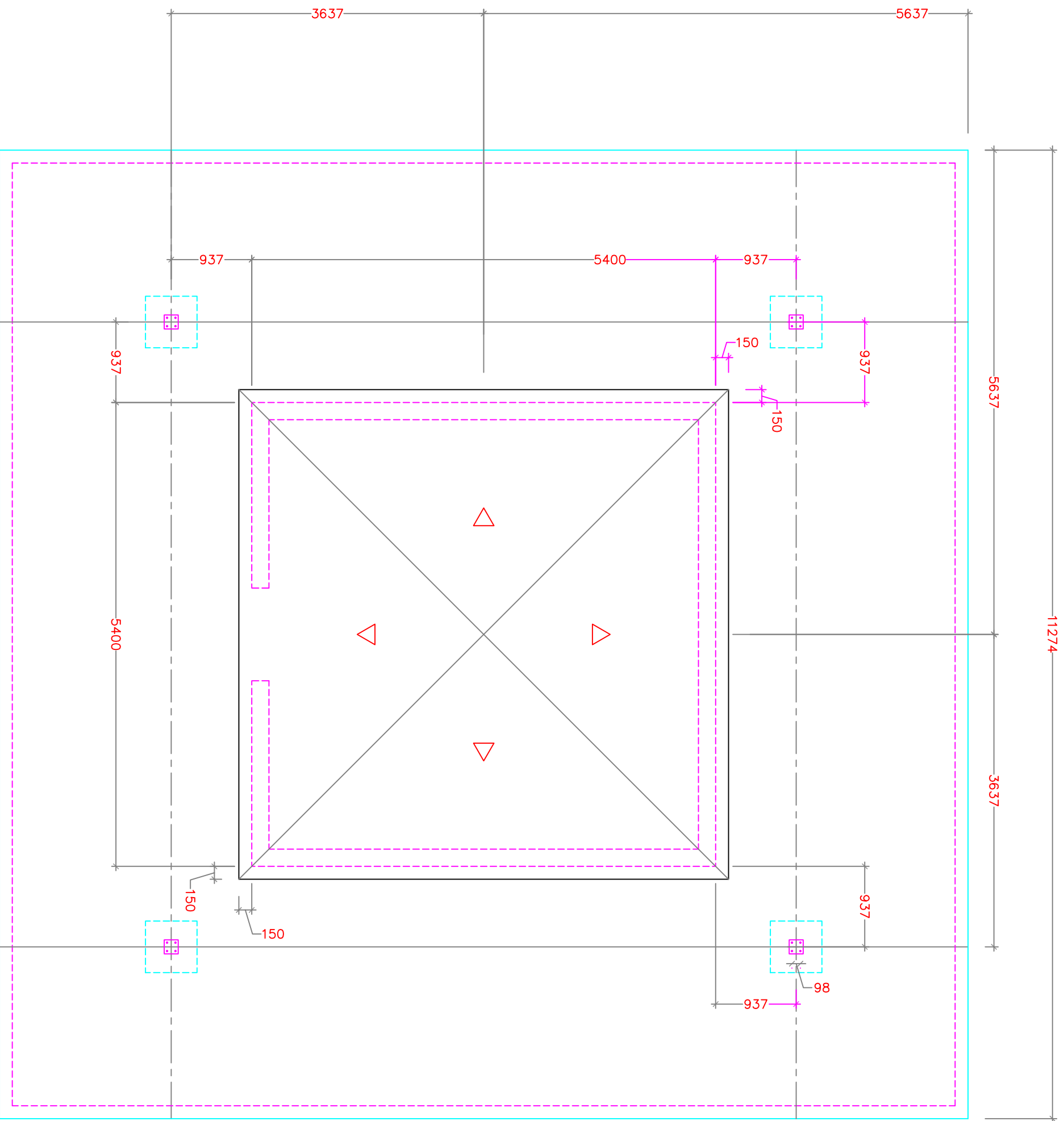
Checked by: MS | Dwg No. 03/06

Date: DEC. 2008 | Issue :

Design 2000 Pte. Ltd.
Architects, Engineers

Plot: 100, H. M. Road, Violet Nagar, Madurai 625 007, Madurai
Tel: 3317966, Fax: 3317962, email: info@design2000.com.my

DO NOT SCALE. ORIGINAL SIZE IS - A3



ROOF PLAN

SCALE 1 : 50

AMMENDMENTS.

Issue	Date	Description

PROJECT: RADIO HUT -
Roa. DHUVAFARU

CLIENT: DHIRAGU / P&I

Contents:
FLOOR PLAN

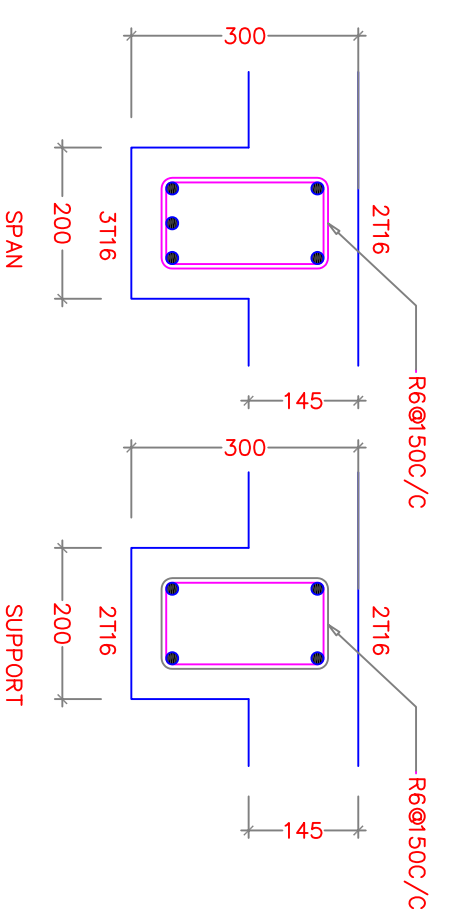
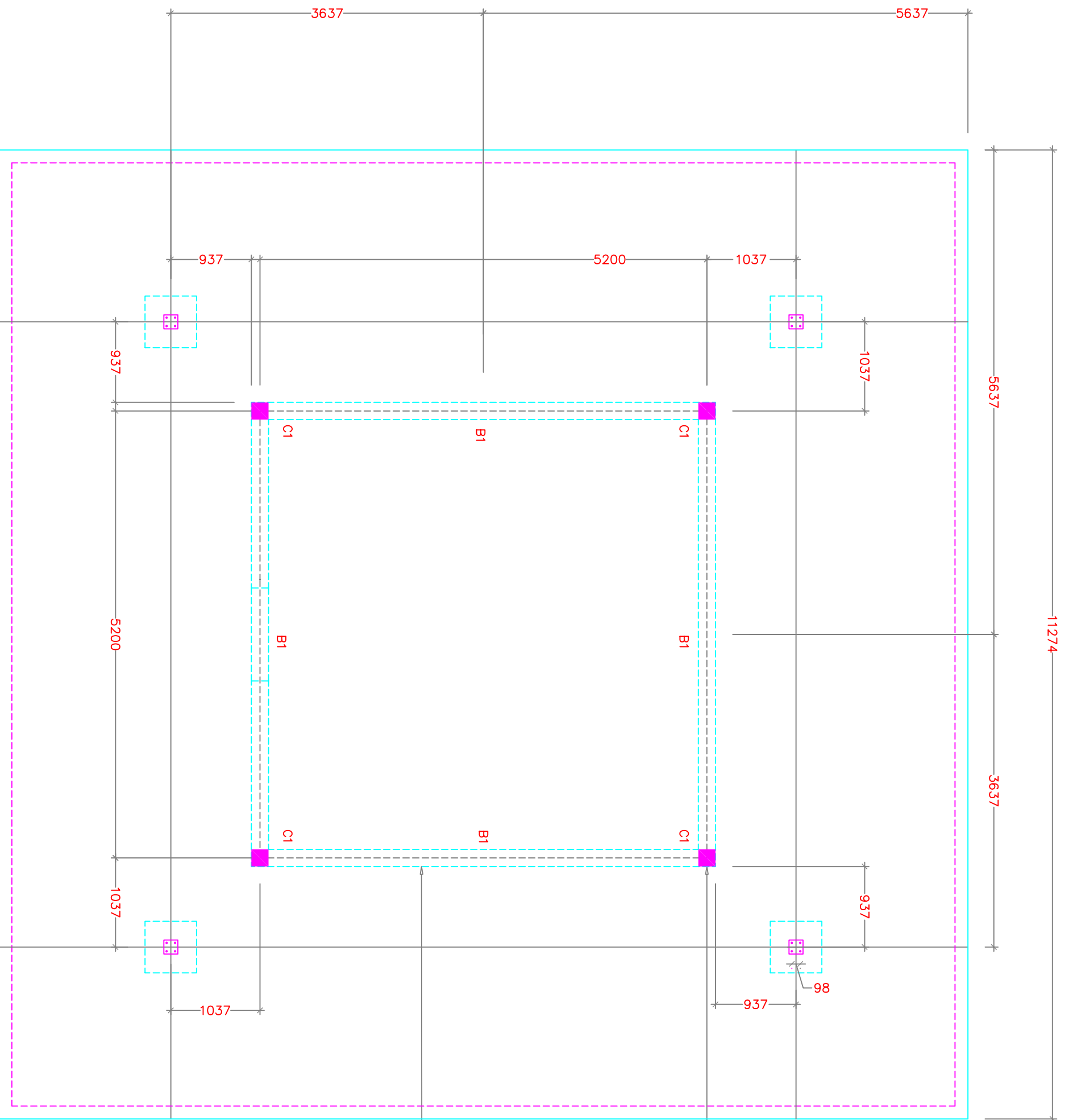
Scales GIVEN

Drawn by: MN | Proj. No. DT - 76/2008

Checked by: MS | Dwg No. 04/06

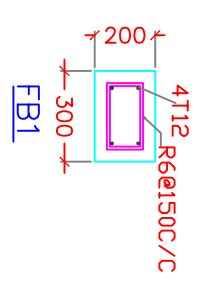
Date: DEC. 2008 | Issue :

Design 2000 Pte. Ltd.
Architects, Engineers
Tel: 3317966, Fax: 3317982, email: info@design2000.com.my

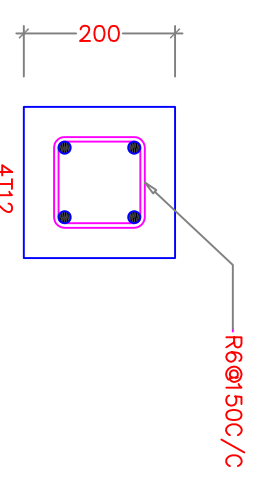


BEAM - B1
SCALE 1 : 10

Column C1, 200x200
RC column 4T12.
Rings R6@150crs.
columns starts from most
foundation



provide B1 on floor level
& roof level



COLUMN - C1
SCALE 1 : 10

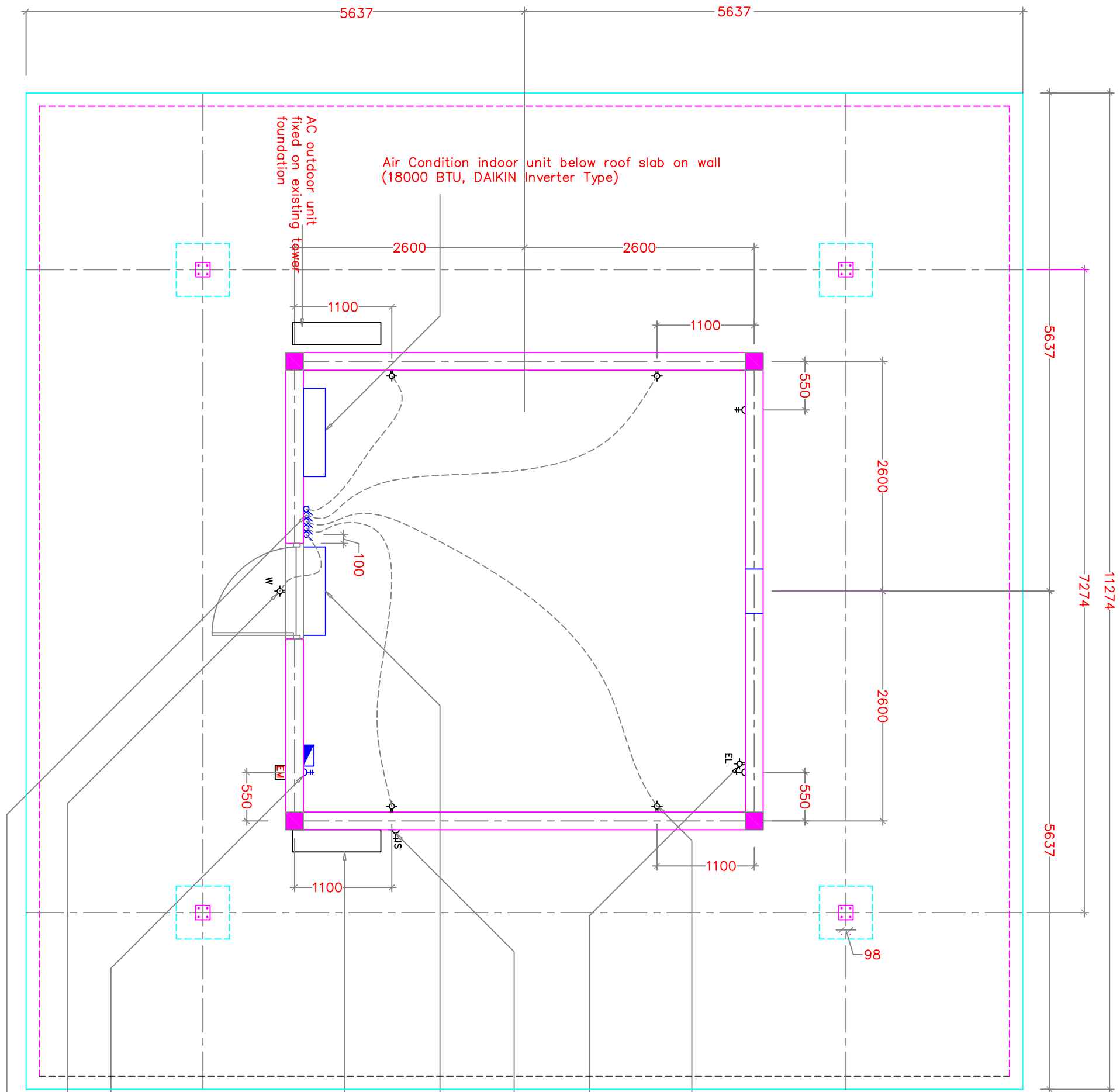
AMMENDMENTS.

Issued	Date	Description

Drawn by:	MN	Proj. No./DT	- 76/2008
Checked by:	MS	Dwg No.	05/06
Date:	DEC. 2008	Issue :	
Scale/s GIVEN			
Contents:			
FLOOR PLAN			
Scale/s GIVEN			
Design 2000 Pte. Ltd. Architects, Engineers Reg. DHUVAAFARU CLIENT: DHIRAGU / P&I Scale/s GIVEN Drawn by: MN Proj. No./DT - 76/2008 Checked by: MS Dwg No. 05/06 Date: DEC. 2008 Issue : Design 2000 Pte. Ltd. Architects, Engineers Reg. DHUVAAFARU CLIENT: DHIRAGU / P&I Scale/s GIVEN Drawn by: MN Proj. No./DT - 76/2008 Checked by: MS Dwg No. 05/06 Date: DEC. 2008 Issue :			

FOUNDATION PLAN
SCALE 1 : 50

DO NOT SCALE. ORIGINAL SIZE IS - A3



LEGEND

- ELECTRICAL METER
- DISTRIBUTION BOARD
- 15W ENERGY SAVING LIGHT (WALL MOUNT)
- 15W WATER PROOF ENERGY SAVING LIGHT (WALL MOUNT)
- EMERGENCY LIGHT (WALL MOUNT)
- 1x32A ISOLATOR SWITCH (WATER PROOF)
- 2x13A SOCKET OUTLET
- 1x13A SOCKET OUTLET
- ONE WAY SWITCH

- wall mount light fixed 2.8m from FFL
- emergency light with socket fixed to wall from 2.8m FFL
- Isolator switch for AC below roof slab
- Air Condition indoor unit below roof slab on wall (18000 BTU, DAIKIN Inverter Type)
- AC outdoor unit fixed on existing tower foundation
- light installed with photo cell switch
- 0.45m from FFL all other sockets
- 4 gang switch 0.9m from FFL

AMMENDMENTS.

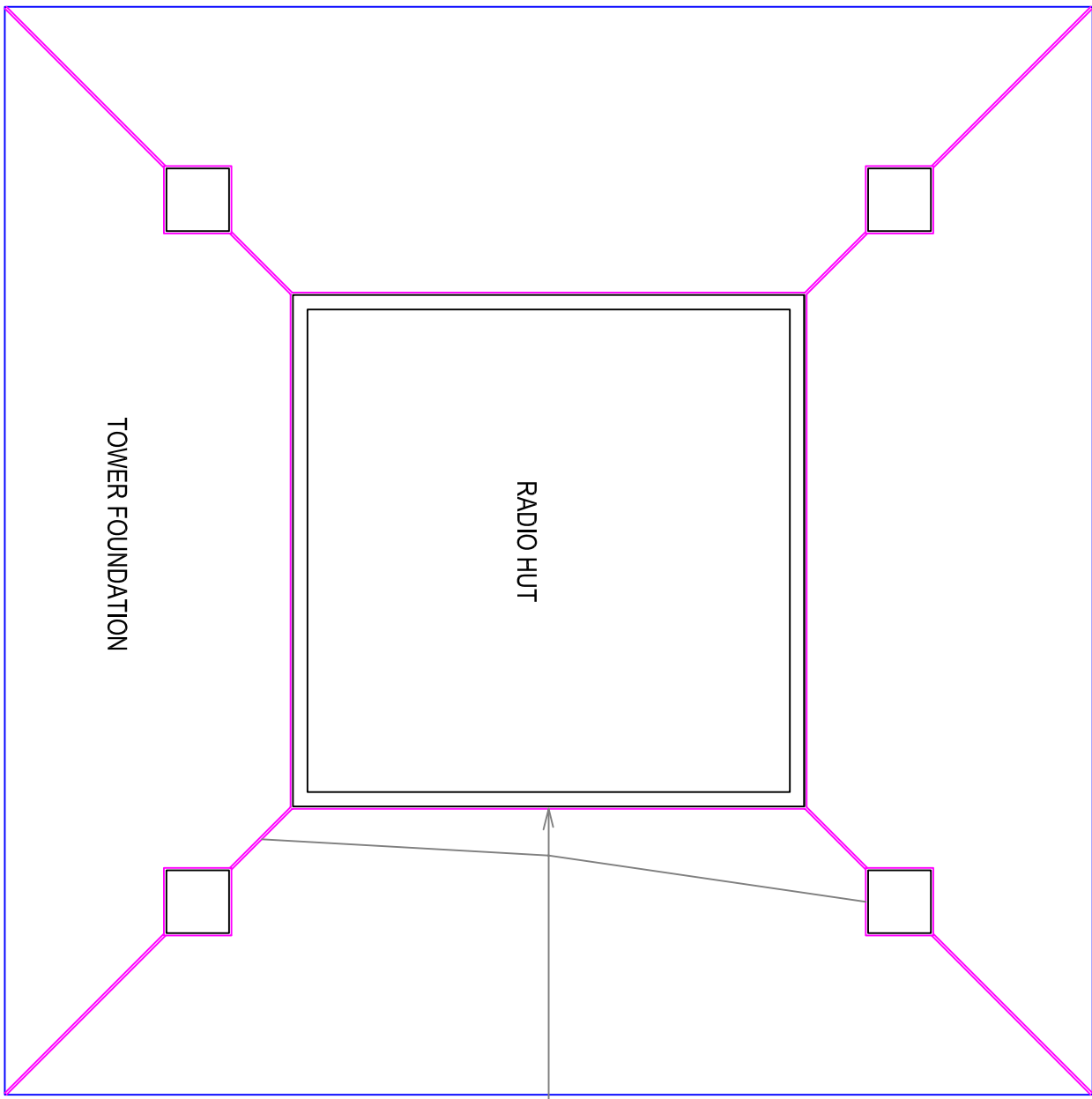
Issued	Date	Description

PROJECT:	RADIO HUT - RAG. DHUVAAFARU
CLIENT:	DHIRAAGU / P&I
Contents:	FLOOR PLAN
Scale/s GIVEN	
Drawn by:	MN Proj. No:DT - 76/2008
Checked by:	MS Dwg No. 06/06
Date:	DEC. 2008 Issue :

Design 2000 Pte. Ltd.
 Architects, Engineers
 14, Mundoope, Violet Nagar, Madurai - 625 017, Madurai
 Tel: 3317966, Fax: 3317962, email: mail@design2000.com.my

ELECTRICAL PLAN
 SCALE 1 : 50

DO NOT SCALE. ORIGINAL SIZE IS - A3



Expansion Joint (25mm)
groove to fill with bituminous
compound on top

TOWER FOUNDATION

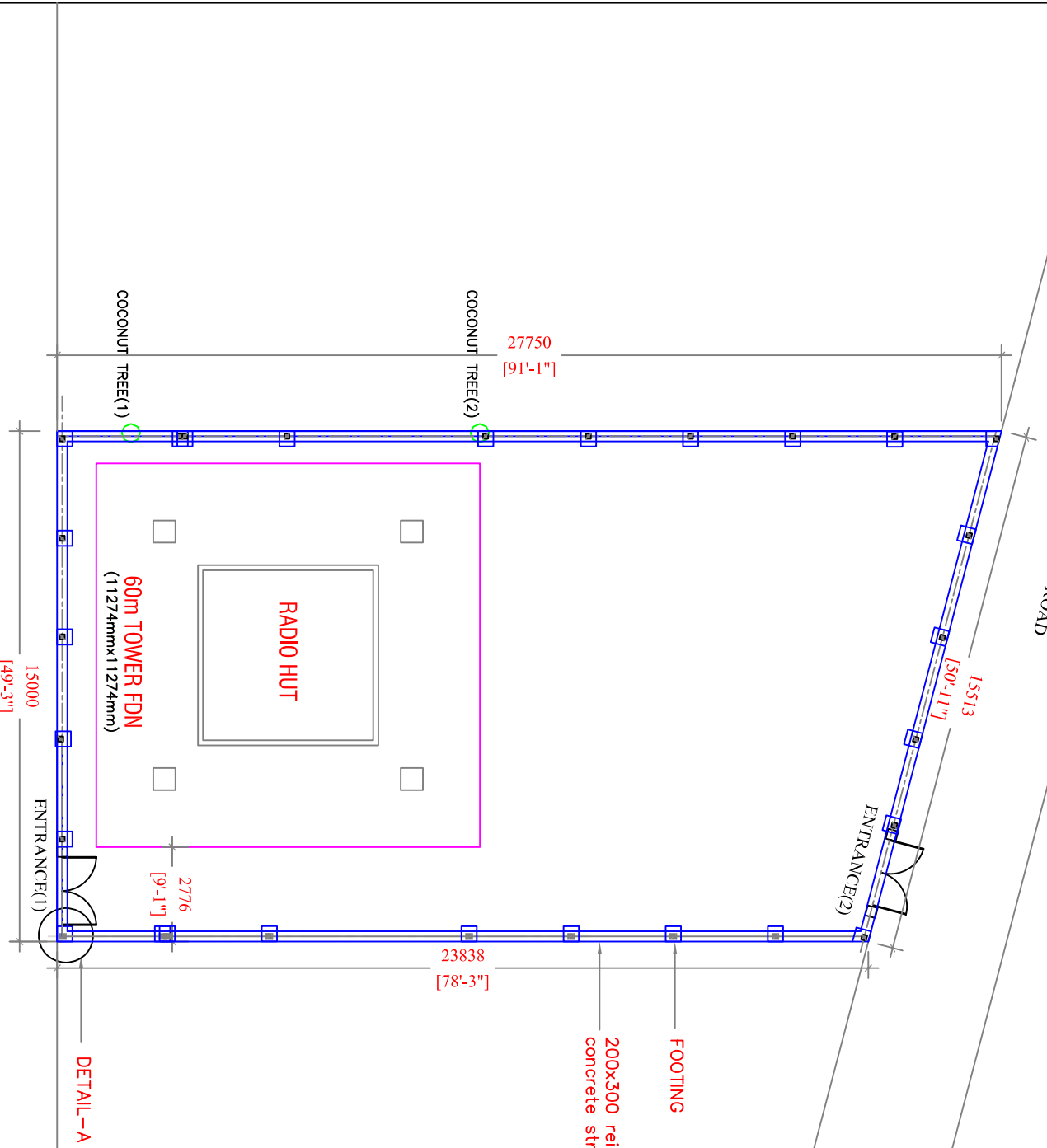
RADIO HUT

60m TWR FDN & RADIO HUT
Raa. DHUVAAFARU

*Site Development
Raa. Dhuvafaru – Dhiraagu Site*

BOUNDARY WALL DRAWINGS

Tender No.: DHR/TENDER/008/2009

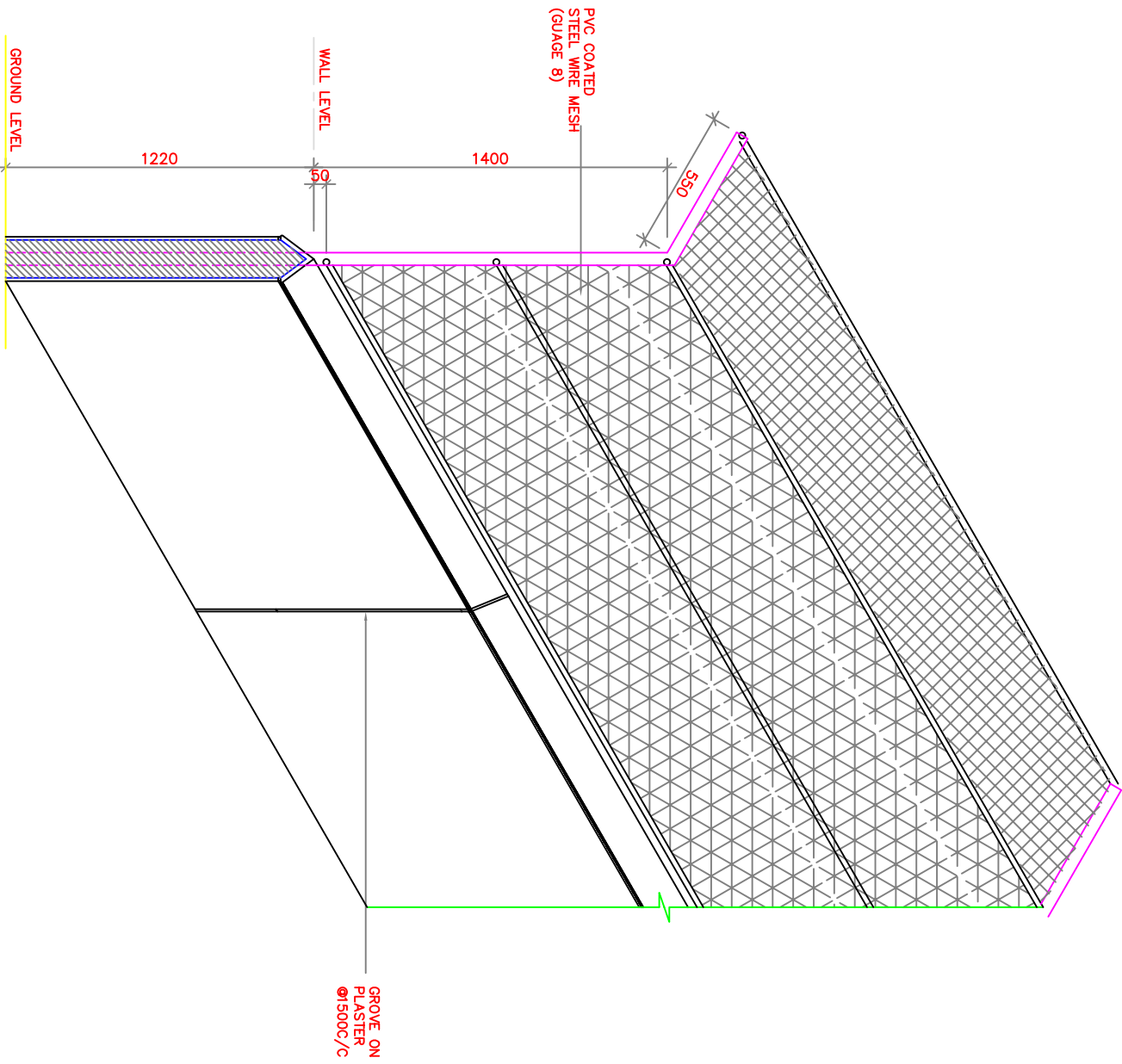


FOUNDATION PLAN

SCALE 1:100

DETAIL-A

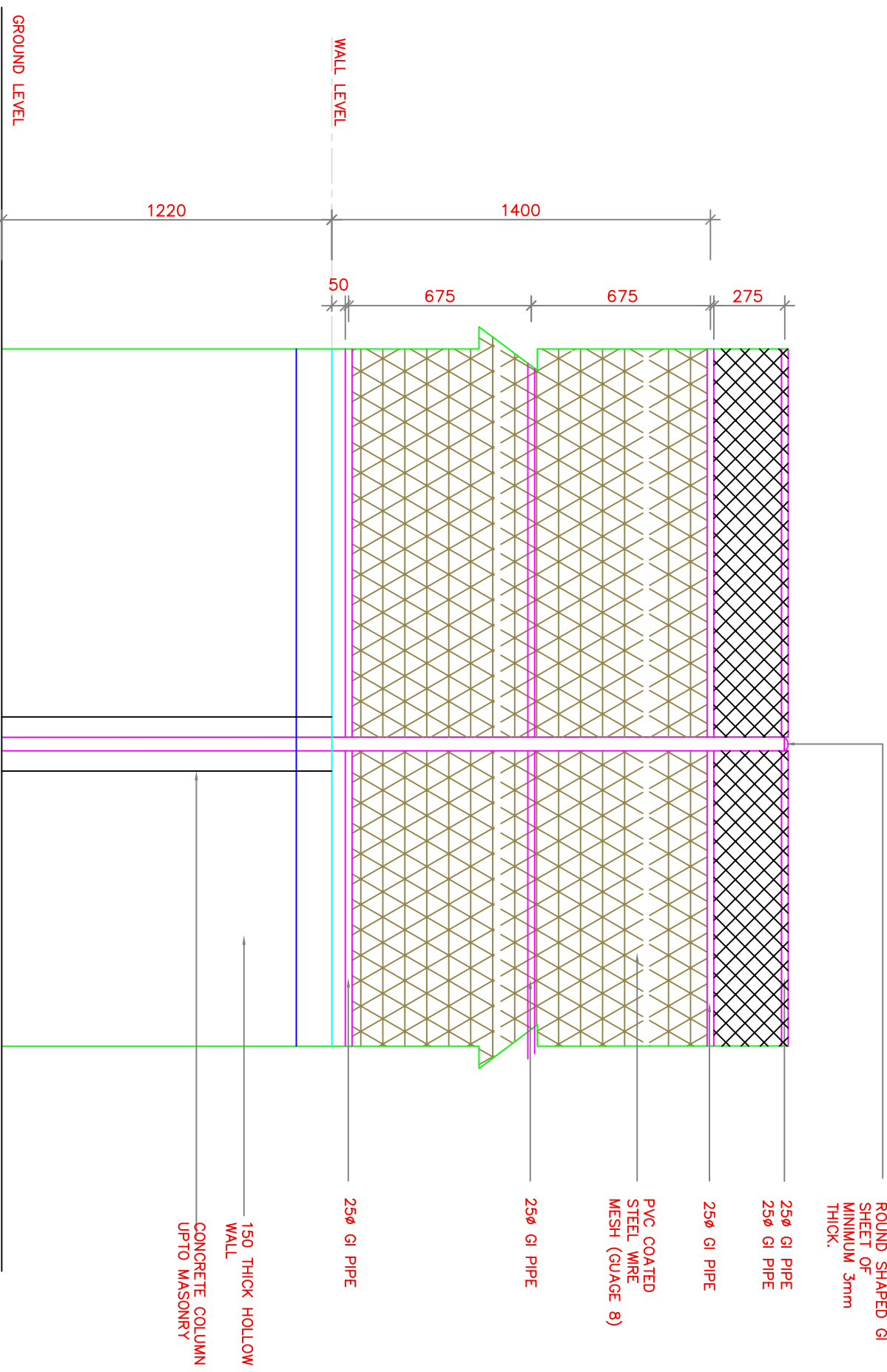
SITE BOUNDARY WALL
Rdg. DHUVAAFARU



PERSPECTIVE VIEW

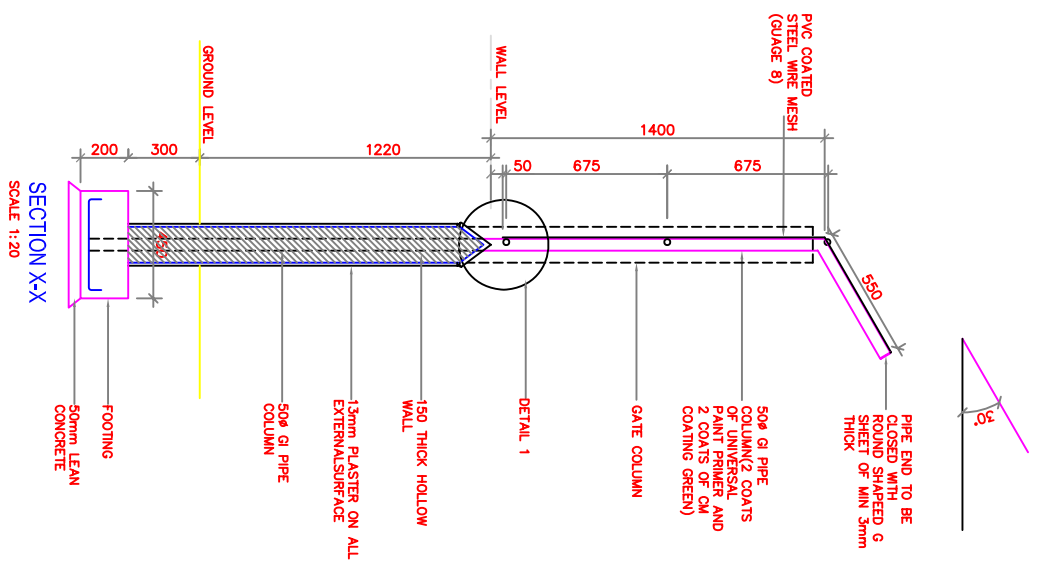
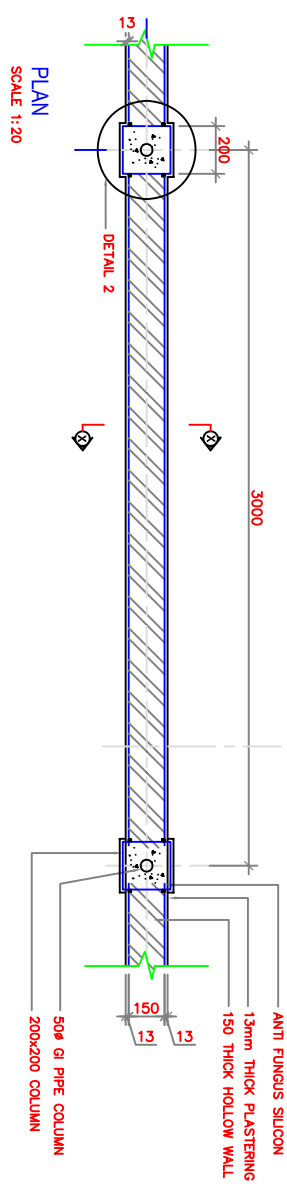
SCALE 1:20

SITE BOUNDARY WALL
Raa: DHUVAFARU - DHIRAGU

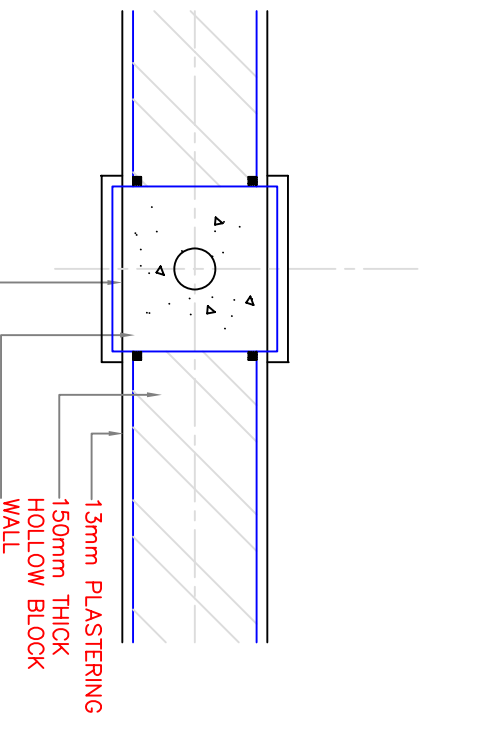


ELEVATION
SCALE 1:20

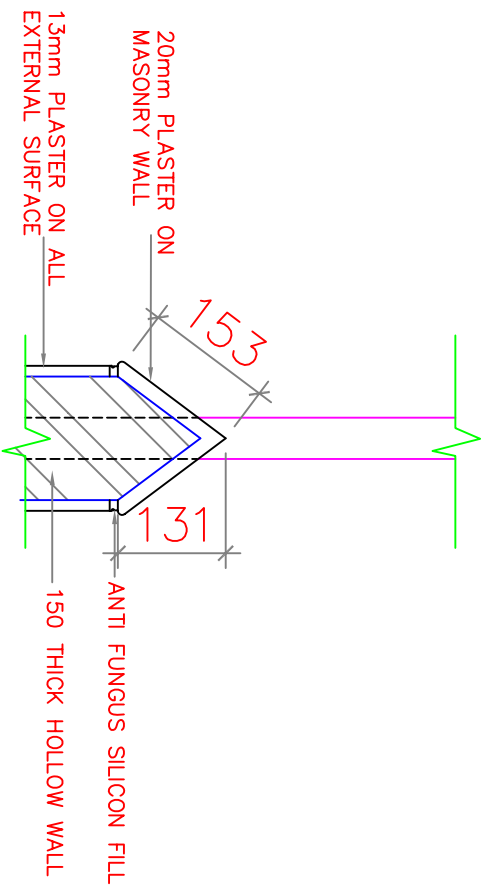
SITE BOUNDARY WALL
Raa. DHUVAAFARU - DHIRAGU



SITE BOUNDARY WALL
Raa. DHUVAAFARU - DHIRAAAGU



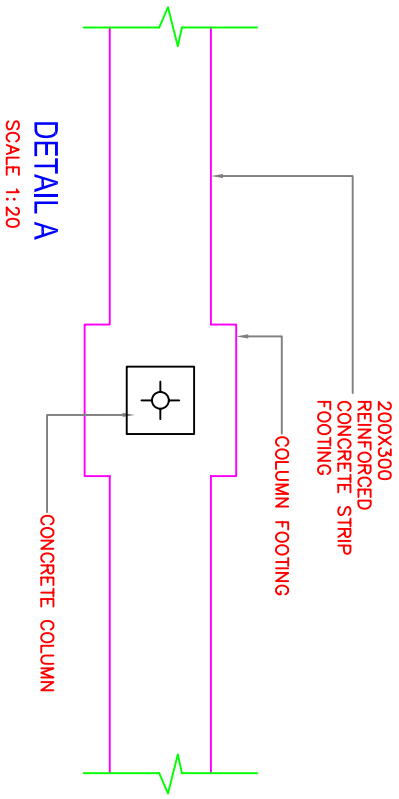
DETAIL 2
SCALE 1:10
RC COLUMN
100mm GROOVE AT
FOUR SIDES OF THE
RC COLUMNS
13mm PLASTERING
150mm THICK
HOLLOW BLOCK
WALL



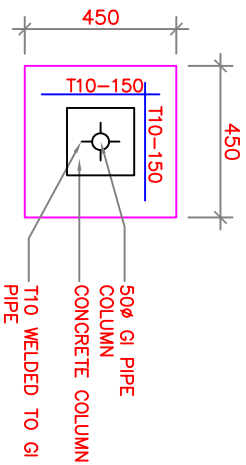
DETAIL 1
SCALE 1:10
20mm PLASTER ON
MASONRY WALL
153
131
ANTI FUNGUS SILICON FILL
150 THICK HOLLOW WALL
13mm PLASTER ON ALL
EXTERNAL SURFACE

STE BOUNDARY WALL

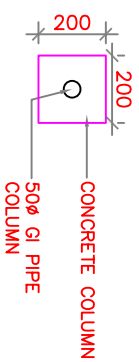
Raa. DHUVAAFARU - DHIRAAGU



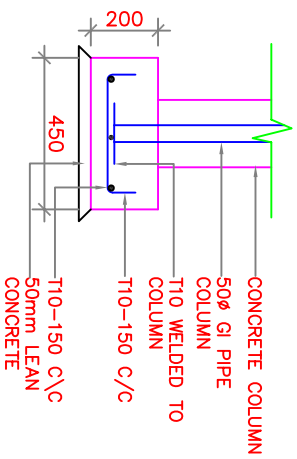
DETAILA
SCALE 1: 20



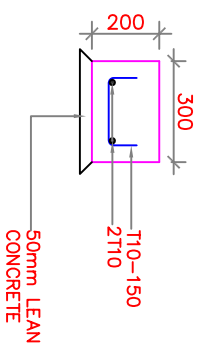
GATE COLUMN FOOTING
SCALE 1: 20



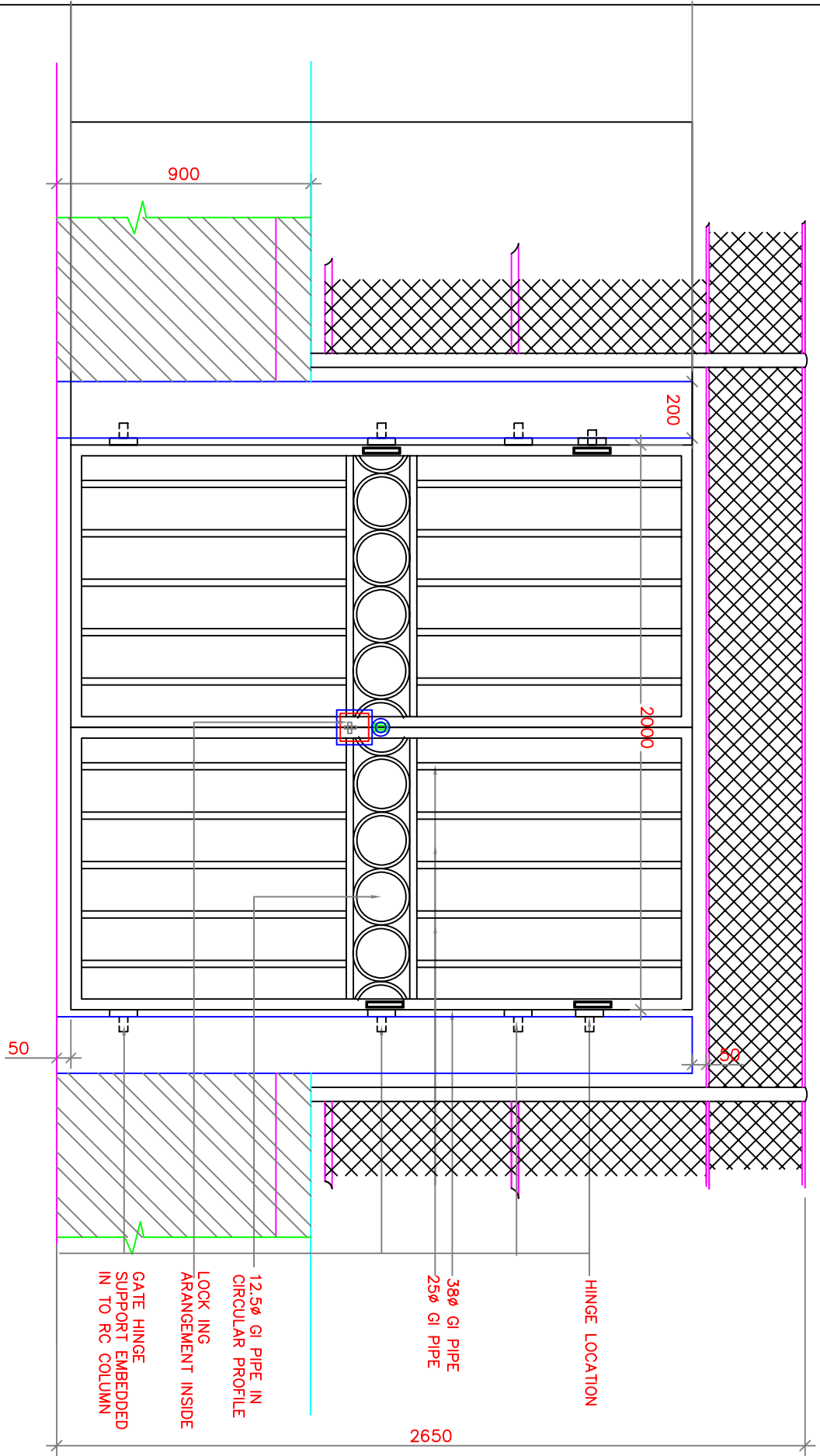
COLUMN - concrete column up to 900 from ground
SCALE 1: 20 except gate columns



STRIP FOOTING DETAIL
SCALE 1: 20



STRIP FOOTING DETAIL
SCALE 1: 20



GATE-1
SCALE 1:20

SITE BOUNDARY WALL
Raa. DHUVAAFARU - DHIRAAGU