

JAWAHARLAL NEHRU HOSPITAL ROOFTOP PV FARM

DRAWING REGISTER & ISSUE	
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Project: Jawaharlal Nehru Hospital Roof Top PV Farm
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Job No : 21/1008	Date		Page: 1
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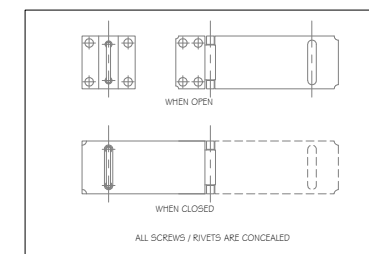
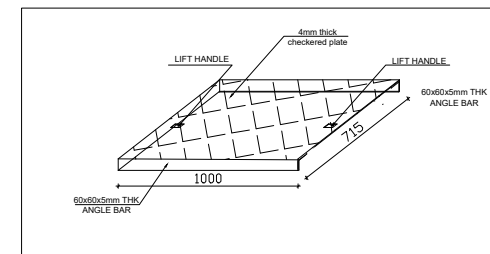
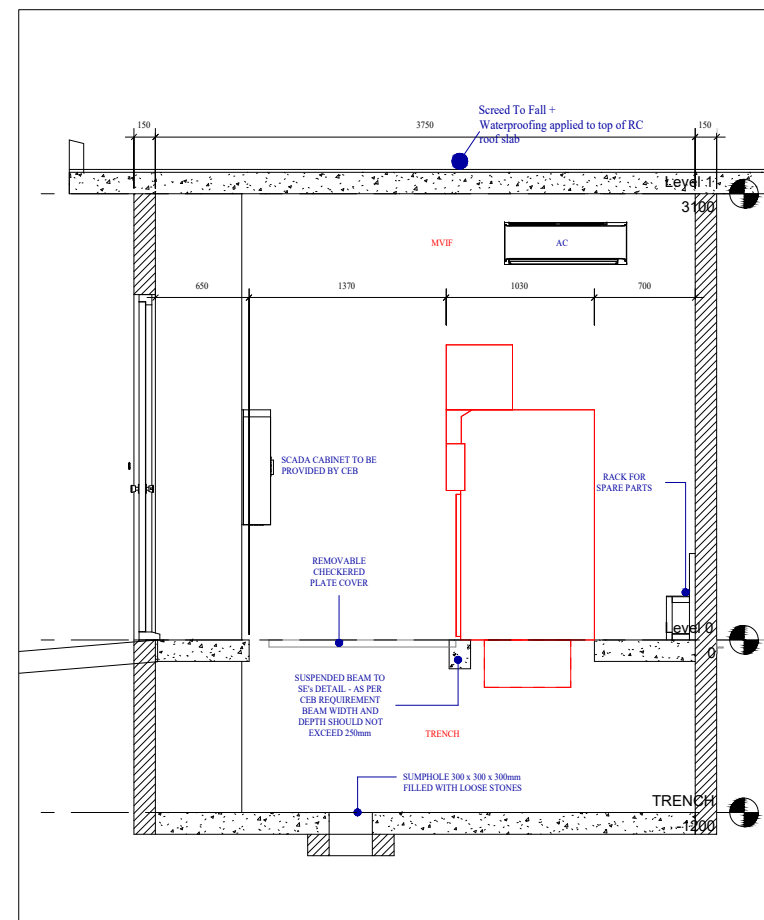
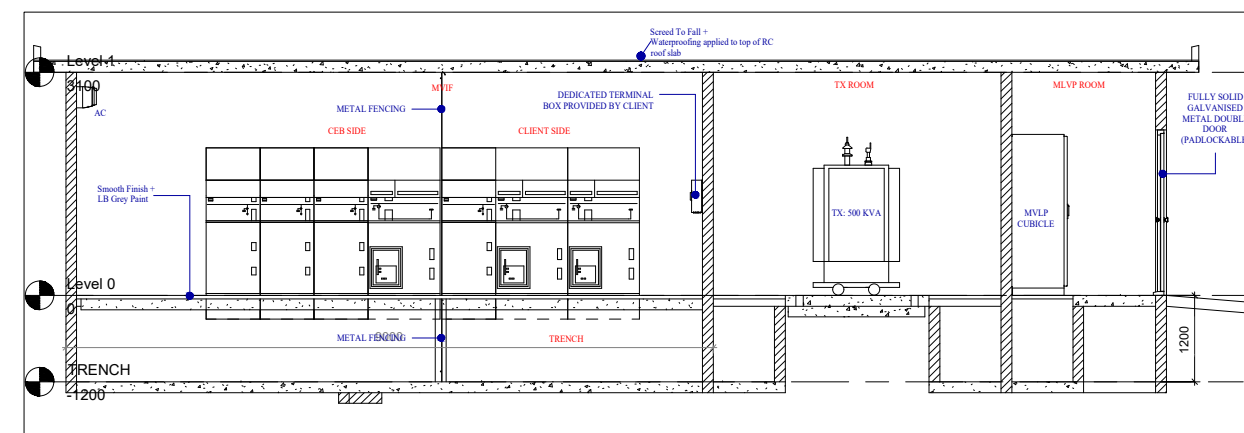
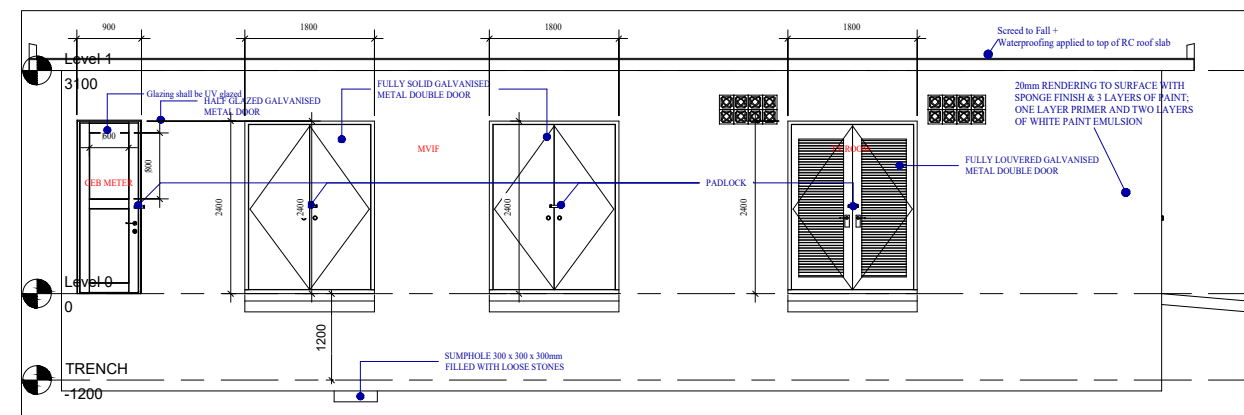
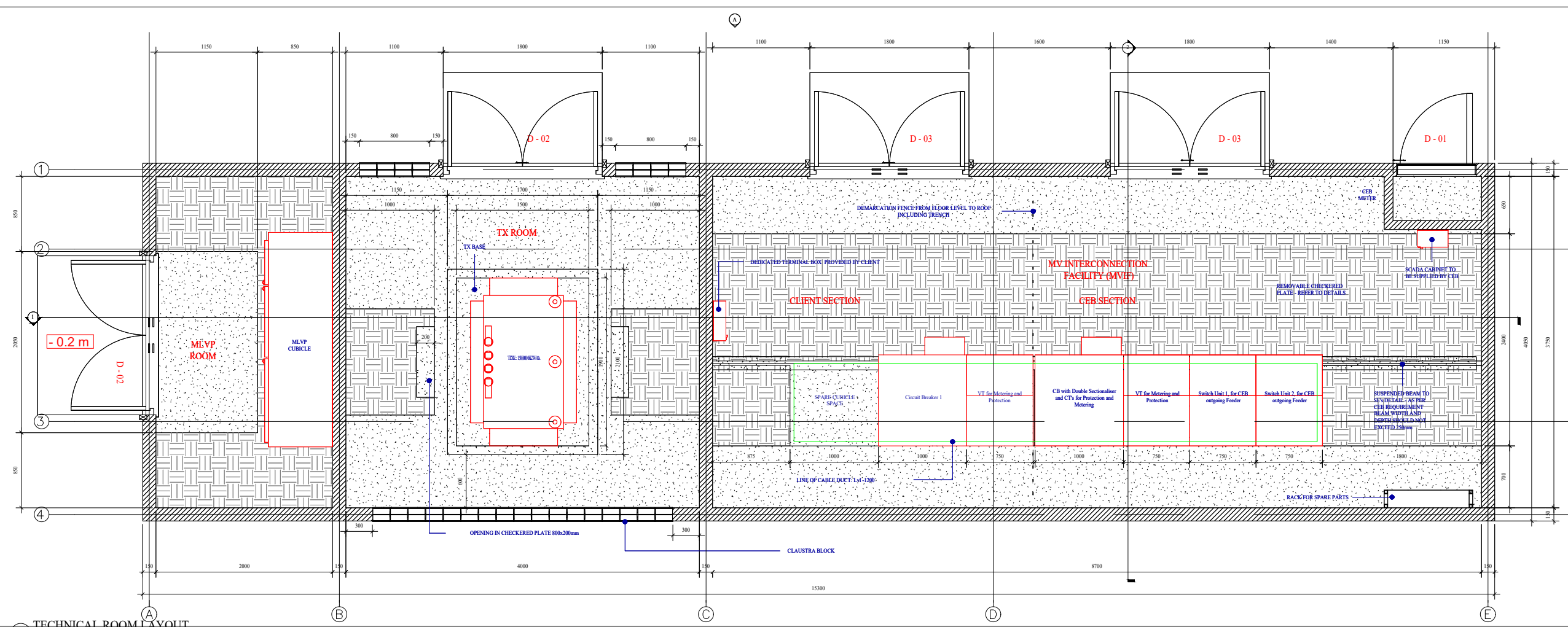
Legend: Type of issue: 'X' = No. of prints, S = Soft copy, E = Email F = Fax

Stage: A = For Approval, BP= Building Permit, C = For construction, P = Preliminary, T = Tender, I = Information

Issued by: VD	Received by
Date: 07 July 2022	Date

Received by \_\_\_\_\_  
Date \_\_\_\_\_

(Please return a signed copy to acknowledge receipt)



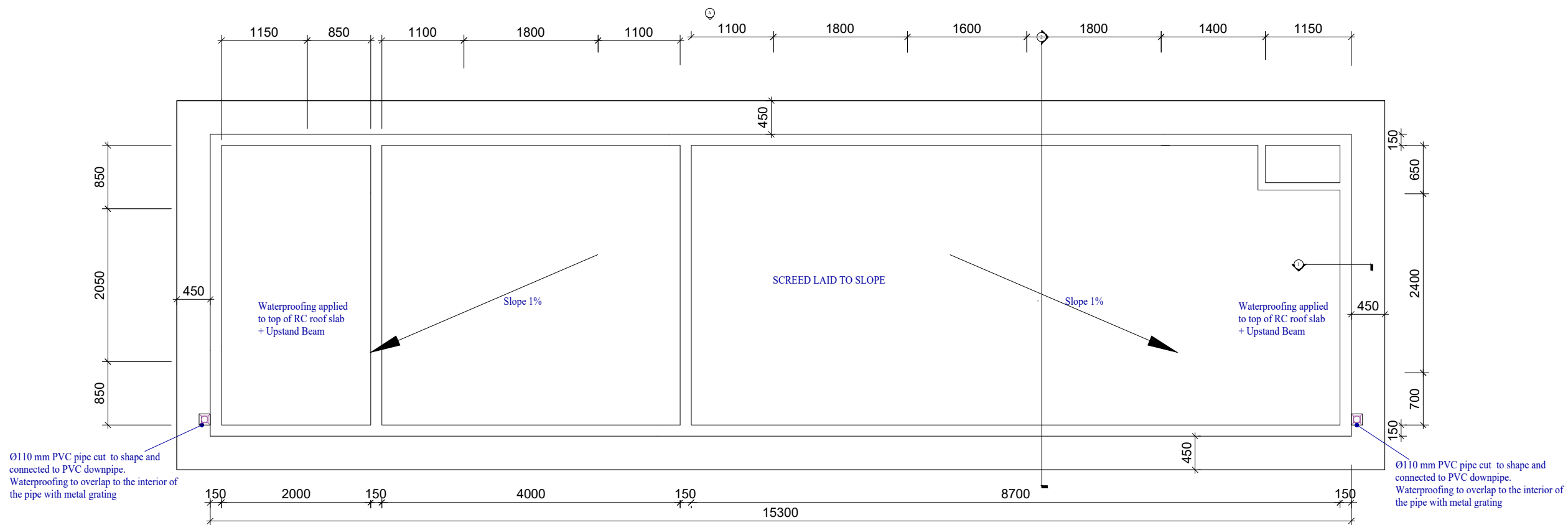
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LEGEND

GENERAL NOTES:

1. PROVIDE FOR RAINWATER DRAWING
2. ALLOW FOR AC IN THE MV INTERCONNECTION FACILITY (MVIF)

[illegible]



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### LEGEND

GENERAL NOTES:

1. PROVIDE FOR RAINWATER DRAWING
2. ALLOW FOR AC IN THE MV INTERCONNECTION FACILITY (MVIF)

[illegible]

DATE - REVISION - DESCRIPTION - ISSUED BY

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ARCHITECT/ID

STRUCTURAL ENGINEER

CLIENT

DBM ENERGY LTD

PROJECT NAME
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SHEET DESCRIPTION	
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### ROOF LAYOUT

DRAWING STATUS
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TENDER

DRAWING REF 1	DRAWING NO.	REVISION
DRAWING REF 2	DRAWING NO.	REVISION
DRAWN BY RC	CHECKED BY SR	APPROVED BY VM
DATE 07.07.22	PAPER SIZE A1	SCALE As indicated
PROJECT No. 19026	DRAWING No. E-TR-P102	REVISION T1

MODEL NO.



General Notes

- G1.

The Engineer's drawings are to be read in conjunction with all ARCHITECT and other CONSULTANTS drawings, specifications and with such other written instruction as may be issued during the course of the contract.  
All discrepancies shall be referred to the Engineer for decision before proceeding with the works and/or ordering of materials.
- G2.

All dimensions relevant to setting out and off site work shall be verified by the contractor before construction and fabrication is commenced. The drawings shall not be scaled.
- G3.

Workmanship and materials are to be in accordance with the relevant Mauritian standards or British Standards [in absence of Mauritian Standards] and local statutory authorities regulations.
- G4.

During construction the contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part shall be overstressed under construction activities.
- G5.

The written approval of a substitution of material along with the costs implications, if any, shall be sought by the Contractor from the Engineer before proceeding with work and/or ordering materials.
- G6.

All dimensions are in millimetres unless stated otherwise. All levels are expressed in metres.

FOUNDATION

- F1.

All materials and workmanship shall be in accordance with BS 8004 Code of Practice for Foundations where not inconsistent with "Engineer's Specification for Excavation,Underfloor/Hardcore Filling".
- F2.

Pad and strip footing shall be founded at depth below ground level shown on the drawings or as instructed on site Engineers. Written approval is required before blinding of any foundation.
- F3.

Temporary supporting works for excavation and dewatering shall be Contractor's responsibility. Details and Calculations for this to be submitted for Engineer's written approval before commencement of works.

STRUCTURAL CONCRETE

- C1.

All workmanship and materials shall be in accordance with BS 8110 - The Structural Use of Concrete. where not inconsistent with "Engineer's Specification for Concrete."
- C2.

Construction of water retaining structure shall be in accordance with BS 8007 - Concrete structures for retaining aqueous liquids where not inconsistent with "Engineer's Specification for Concrete".
- C3.

Minimum cover (mm) to all reinforcement unless otherwise shown shall be as

Element	Cover(mm)
(a) Foundation against earth face	75
(b) Foundation against blinding	50
(c) Column > 200mm	35
≤ 200mm	30
(d) Ground beams	35
(e) Beams and walls	35
(f) Slab on fill	30
(g) Suspended slabs	25

- C4.

Sizes of concrete elements do not include thickness of applied finishes.
- C5.

Beam depths are written first and include slab thickness.
- C6.

No holes, chases or embedment of pipes other than those shown on the structural drawings shall be made to concrete members without prior written approval of the Engineer.
- C7.

Shop drawings for formwork including the location of shoring and reshoring and also calculation for its design when specifically asked; shall be submitted for a written approval by the Engineer
- C8.

Construction joints shall be properly formed as specified and made only where shownon the structural drawings or specifically approved by the Engineer. They shall be reinforced as shown on this drawings
- C9.

Reinforcement is represented diagrammatically and not necessarily shown in true projection.
- C10.

Splices in reinforcement shall be made only in the positions shown or as otherwise approved by the Engineer.
- C11.

Welding of reinforcement and /or use of approved couplers with threaded bars shall not be permitted without the approval of the Engineer.
- C12.

All reinforcement shall be securely supported in its correct position during concreting by approved bar chairs, spacers or support bars.

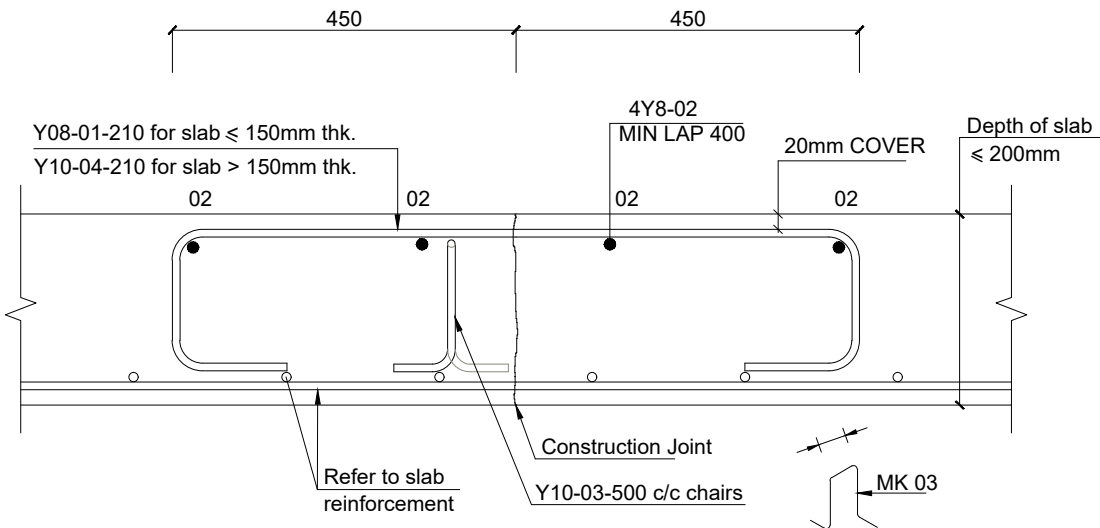
- C13.

Reinforcement shall be checked by the Engineer and a written approval. of the Engineer should be obtained before concreting.
- C14.

Reinforcement symbols  
  
All reinforcement to comply with MS 10 Mauritian standard for steel bars for the reinforcement of concrete.  
T - Hot rolled deformed bar - grade 460 (i.e minimum yield strength 460 N/mm2)  
R - Structural grade mild steel plain round bar - grade 250(i.e minimum yield strength 250 N/mm2)  
  
The number following the bar symbol is the nominal bar diameter in millimetres.
- C13.

Concrete grades shall be as follows unless shown otherwise on drawings:-

Element	Grade of Concrete	Fcu (Mpa)
All structural concrete Unless otherwise specified	30/20	30



DETAIL OF SLAB AT CONSTRUCTION JOINT

CONCRETE BLOCKWORK LOAD BEARING WALLS & EXTERNAL WALL

- B1.

All workmanship and materials shall be in accordance with BS 5628 -Part 1  
Code of practice for use of masonry where not inconsistent with "Engineer's Specification for Blockwork."
- B2.

Concrete block shall be manufactured in accordance with BS 6073 - Precast concrete masonry units.  
They shall be cellular blocks with average compressive strength of 3.5N/mm2 unless otherwise specified.  
Size of concrete block shall be 457 x 203 x 200 thick or 150 thick unless otherwise specified.
- B3.

The mortar for laying blocks shall consist of 1 part Portland cement : 3 to 4 parts of washed sand and an approved plasticiser unless otherwise specified.
- B4.

Brick reinforcement to masonry blockwall shall be as shown on the drawings.
- B5.

Reinforced concrete infill to blockwork where required shall be of Fcu 20 Mpa, with reinforcement as specified.
- B6.

Load bearing concrete blockwalls shall comply with BS 5628 Part-"Structural Use of Unreinforced Masonary" where not inconsistent with "Engineer's Specification for Blockwork".

Designed VD	Drawn V.D	Checked VD	Passed VD	Date Jul 2022	Scale		
Revision Note				Mark	Date	By	

- NOTES
1.

This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.
2.

Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
2.




All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.
3.

A soil bearing capacity of 200 kN/m2 was assumed to design the bases.  
  
The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.
4.

All columns are centred on the bases, unless otherwise noted.
5.

Concrete strength at 28 days to be as follows:  
a) Foundations Grade 30Mpa  
b) Columns Grade 30Mpa  
c) Surface Beds Grade 30Mpa  
d) Walls Grade 30Mpa  
e) Beams Grade 30Mpa  
f) Slabs Grade 30Mpa
5.

Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.
6.

LEGEND.  
COLUMNS AND WALL SHOWN THUS:  
  
ARE UNDER   
ARE OVER   
ARE UNDER AND OVER 
7.

This Drawing Should Be Read In Conjunction With Drawing No.
8.

Cover to bars; Foundation– Bases, Strip Footing –50  
Column –30  
Top Mesh –35  
Beams [to links Bottom ,Top ] –30  
Beams [to links Sides] –30  
Slab[ Top and Bottom] –25

PROJECT  
Jawaharlal Nehru Hospital  
ROOFTOP PV FARM

CLIENT  
DBM Energy Ltd

DRAWING TITLE  
GENRAL NOTES  
(SHEET 1)

**V . Dabee Engineers**  
**Consulting Engineer**  
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27 Marcel Ducasse Street, Beau Bassin  
Mob: 59419005  
VAT: 17252628  
BRN: 113007370  
Job Number/Drawing Number  
**21/1008/S001**  
Revision  
**T1**

STRUCTURAL STEELWORK

- S1.

All workmanship and materials shall be in accordance with BS 5950 - The Structural use of Steelwork in Buildings where not inconsistent with "Engineer's Specification for Structural Steelwork."
- S2.

Welding shall be performed by an experienced operator in accordance with BS 4870 (Part 1) - Fusion welding of steel. All welding rods shall comply with BS 639 and general requirements for metal Arc welding for mild steel shall comply with BS 5135
- S3.

Bolts not designated shall be grade 8.8. All bolts shall conform to BS 4190 and / or BS 3692 as, appropriate and shall be hot dipped galvanised to BS 729 with minimum coating of 600 gms/m2.
- S4.

Metal washers will be provided on both sides of the member with bolts and shall comply with BS 4320 and shall be hot dipped galvanised to BS 729 (600gms/m2) i.e 85 microns on each face.
- S5.

The contractor shall provide and leave in place until permanent bracing elements are constructed such temporary bracing as is necessary to stabilize the structure during erection.
- S6.

Unless otherwise specified all steelwork shall be hot dipped galvanised to a minimum thickness of 85 microns.
- S7.

The ends of all tubular members are to be sealed with nominal thickness plates and continuous fillet weld unless otherwise shown.
- S8.

Except where otherwise shown welds to be 6 mm continuous fillet.

STRUCTURAL TIMBERWORK

- T1.

Hardwood shall comply with BS 5756 Part 5- Specification for tropical Hardwood for Structural Use unless otherwise stated.Hardwood shall be of HS Grade Strength Class D60-D70.
- T2.

Softwood shall comply with BS 4978 - Specification for Softwood for Structural Use unless otherwise stated,Softwood shall be of SS Grade Strength Class C22-C24.
- T3.

All workmanship and materials shall be in accordance with BS 5268 Part 2-Structural Use of Timber Code of Practice for permissible stress design, materials and workmanship where not inconsistent with "Engineer's Specification for Timber
- T4.

Metal connectors shall comply to BS 1579-Specification for Connectors for Timber
- T5.

Screws and Steel nails for fixing shall comply to BS 1210-Specification for Wood Screws and BS 1202 Part 1- Specification for Steel nails respectively
- T6.

For Metalworks i.e plates,welding,bolts,washers/connectors the notes of structural steelwork above shall apply.

Designed VD	Drawn V.D	Checked VD	Passed VD	Date Jul 2022	Scale		
Revision Note				Mark	Date	By	

- NOTES
1.

This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.
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Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
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All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.
3.

A soil bearing capacity of 200 kN/m2 was assumed to design the bases.

The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.
4.

All columns are centred on the bases, unless otherwise noted.
5.

Concrete strength at 28 days to be as follows:

a)

Foundations

Grade 30Mpa

b)

Columns

Grade 30Mpa

c)

Surface Beds

Grade 30Mpa

d)

Walls

Grade 30Mpa

e)

Beams

Grade 30Mpa

f)

Slabs


Grade 30Mpa
5.

Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.
6.


LEGEND.

COLUMNS AND WALL SHOWN THUS:


ARE UNDER



ARE OVER



ARE UNDER AND OVER


7.

This Drawing Should Be Read In Conjunction With Drawing No.
8.

Cover to bars; Foundation– Bases, Strip Footing –50

Column –30

Top Mesh –35

Beams [to links Bottom ,Top ] –30

Beams [to links Sides] –30

Slab[ Top and Bottom] –25

PROJECT  
Jawaharlal Nehru Hospital  
ROOFTOP PV FARM

CLIENT  
DBM Energy Ltd

DRAWING TITLE  
GENRAL NOTES  
(SHEET 2)

V . Dabee Engineers

Consulting Engineer

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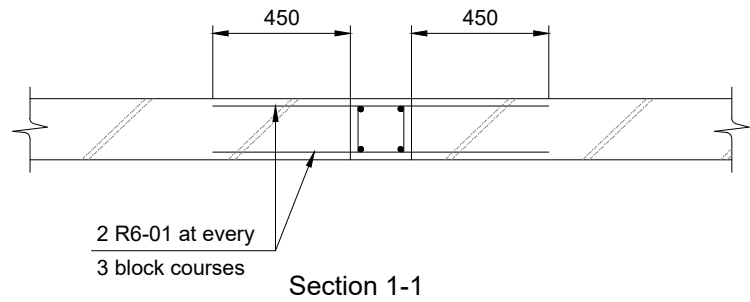
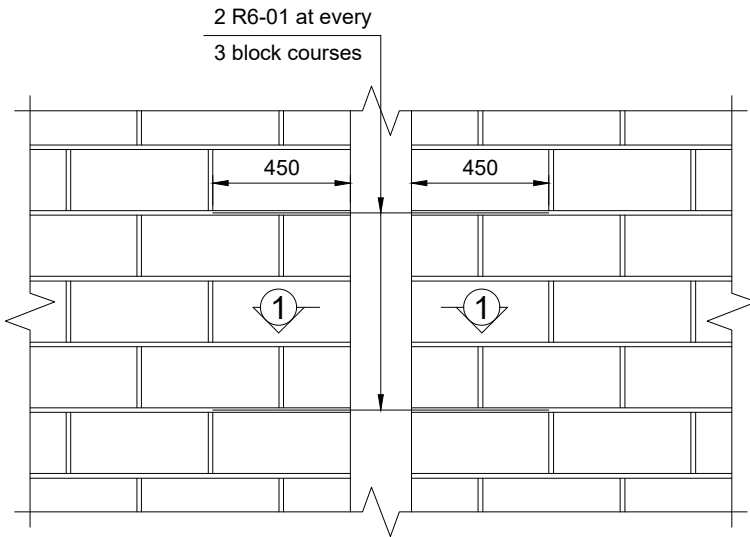
Job Number/Drawing Number

21/1008/S002

Revision

T1

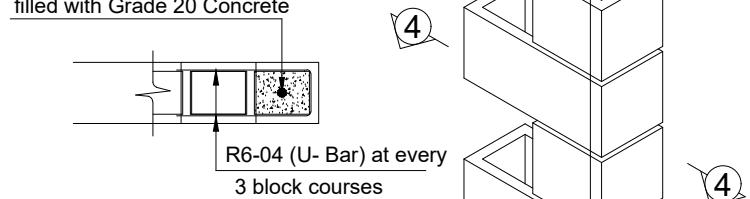




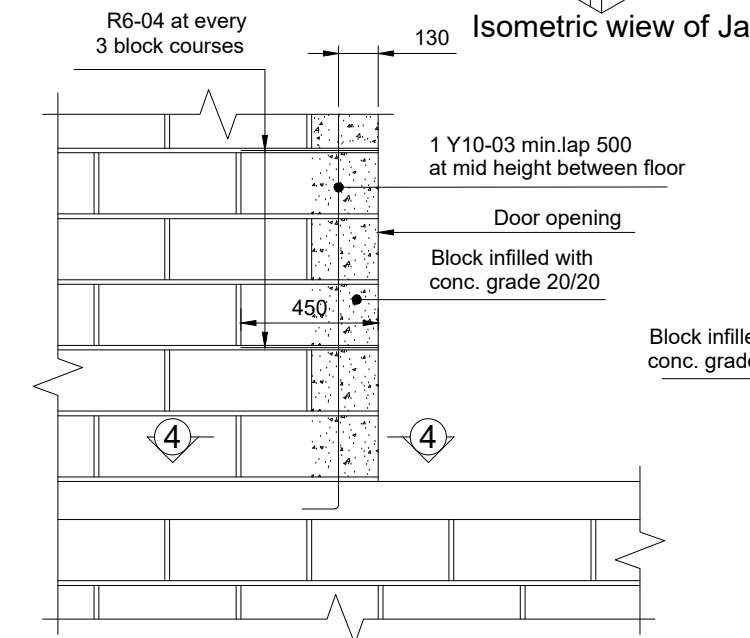
Section 1-1

All doors & window jamb to be reinforced with 1 Y10-03 and filled with Grade 20 Concrete

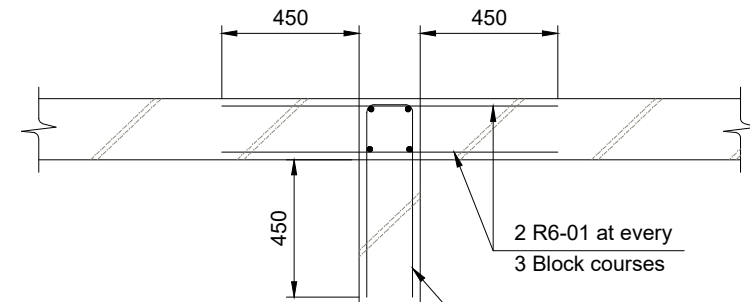
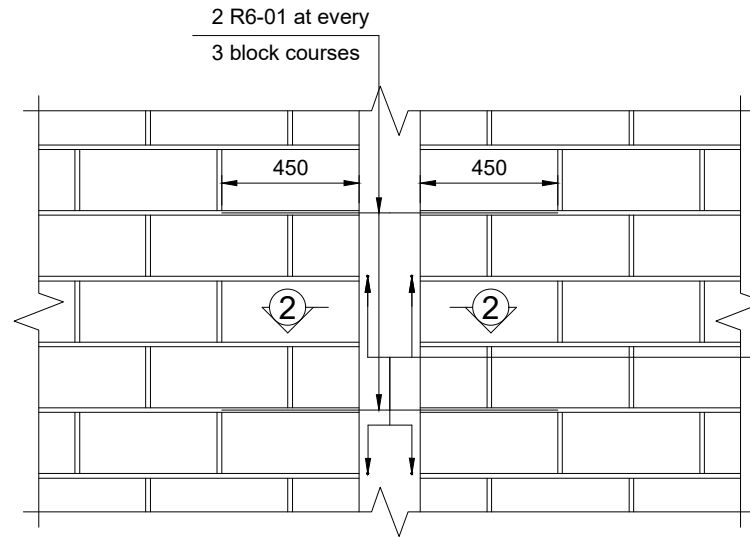
All doors & window jamb to be reinforced with 1 Y10-03 and filled with Grade 20 Concrete



Section 4-4



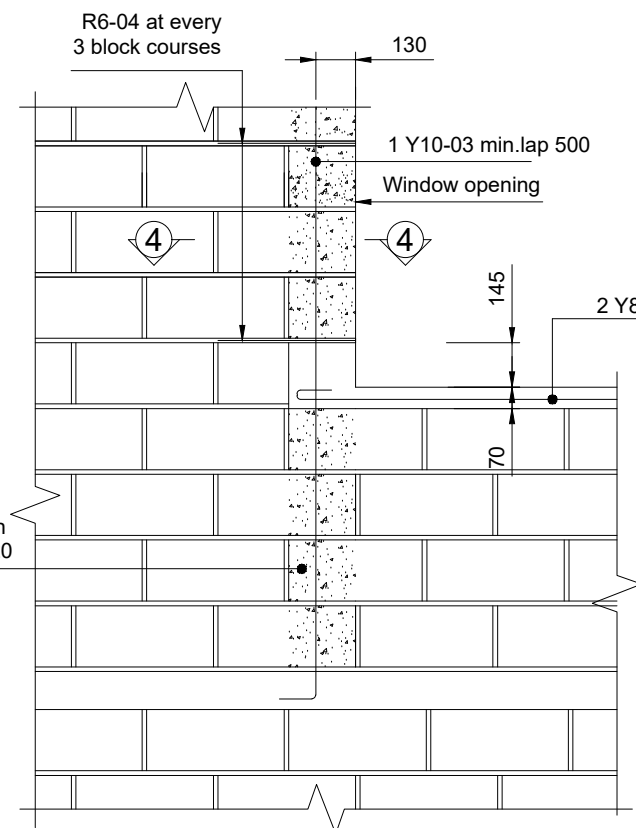
2) JAMB TO DOOR OPENING



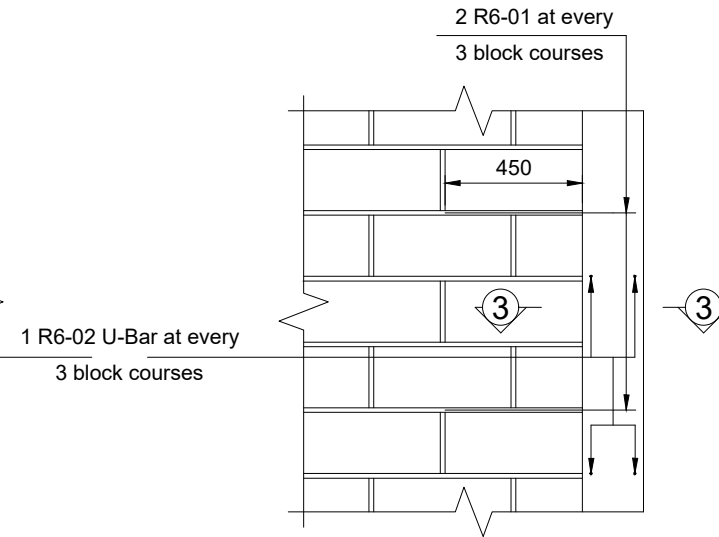
Section 2-2

R6-02 U-Bar at every 3 Block courses (1 blockcourse above / below the one containing 2R06-01)

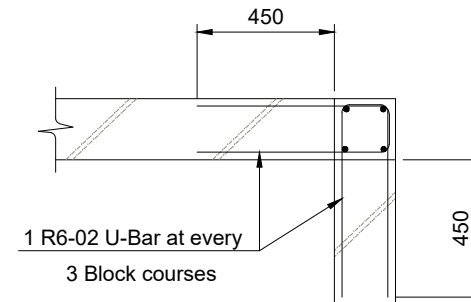
1) ELEVATION & SECTIONS SHOWING WALL TIES



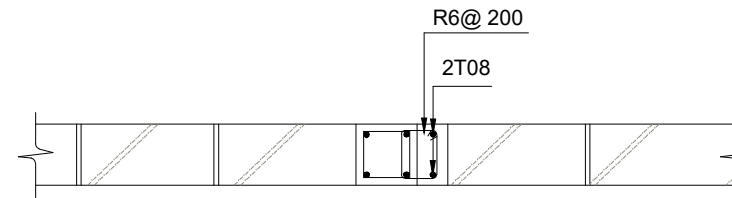
3) JAMB TO WINDOW OPENING



1 R6-02 U-Bar at every 3 block courses



Section 3-3



Detail X

Blocks to be used are to be only:

- 1) 450mm,
- 2) 225mm long (i.e. half of a block).

Always start erecting blockwall from a column

Gap between column and blockwall to be kept constant through the courses.

The latter to be filled as per detail X

4) Erection of blockwall

Designed VD	Drawn V.D	Checked VD	Passed VD	Date Jul 2022	Scale
Revision	Note	Mark	Date	By	

- NOTES
1. This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.
  2. Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
  2. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.
  3. A soil bearing capacity of 200 kN/m<sup>2</sup> was assumed to design the bases.
- The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.
4. All columns are centred on the bases, unless otherwise noted.
  5. Concrete strength at 28 days to be as follows:  
a) Foundations Grade 30Mpa  
b) Columns Grade 30Mpa  
c) Surface Beds Grade 30Mpa  
d) Walls Grade 30Mpa  
e) Beams Grade 30Mpa  
f) Slabs Grade 30Mpa
  5. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.
  6. LEGEND.  
COLUMNS AND WALL SHOWN THUS:  
ARE UNDER   
ARE OVER   
ARE UNDER AND OVER
  7. This Drawing Should Be Read In Conjunction With Drawing No.
  8. Cover to bars; Foundation– Bases, Strip Footing –50  
Column –30  
Top Mesh –35  
Beams [to links Bottom ,Top ] –30  
Beams [to links Sides] –30  
Slab[ Top and Bottom] –25

PROJECT  
Jawaharlal Nehru Hospital  
ROOFTOP PV FARM

CLIENT  
DBM Energy Ltd

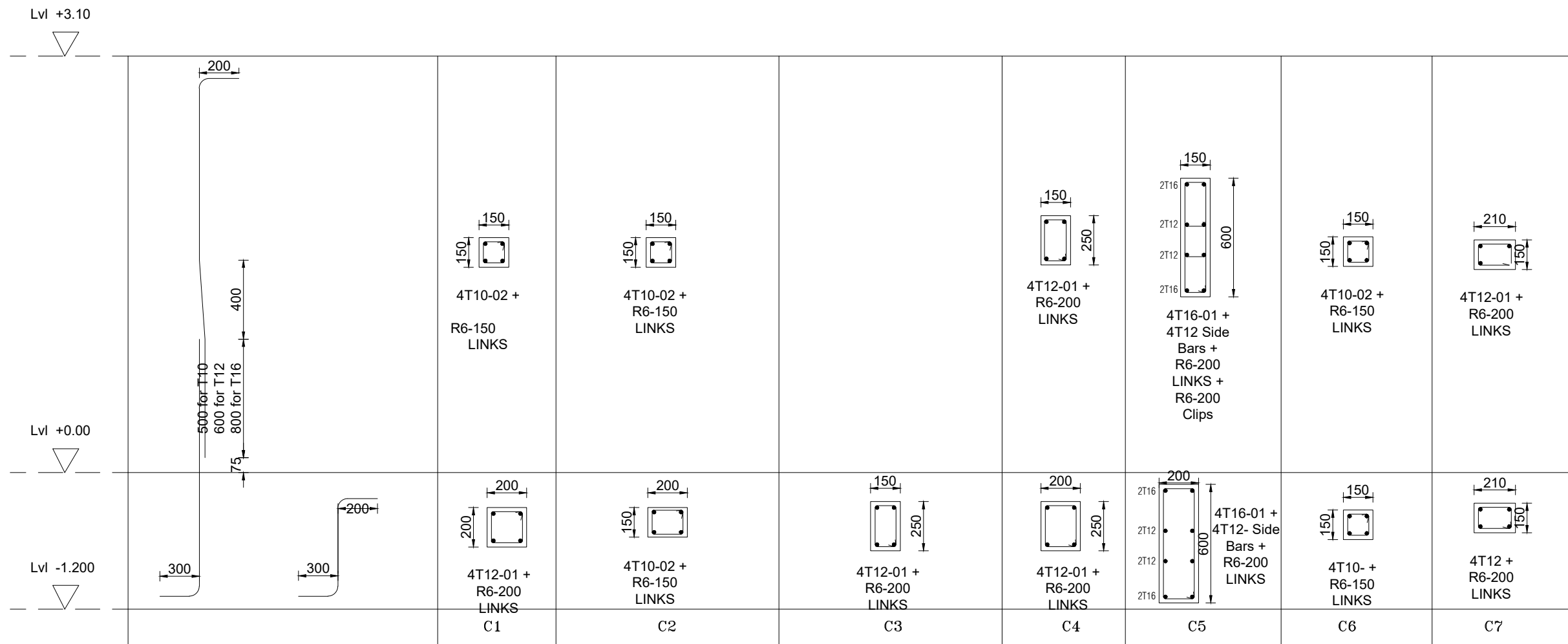
DRAWING TITLE  
GENERAL NOTES  
(SHEET 3)

**V . Dabee Engineers**  
**Consulting Engineer**  
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Job Number/Drawing Number  
**21/1008/S003**  
Revision  
T1

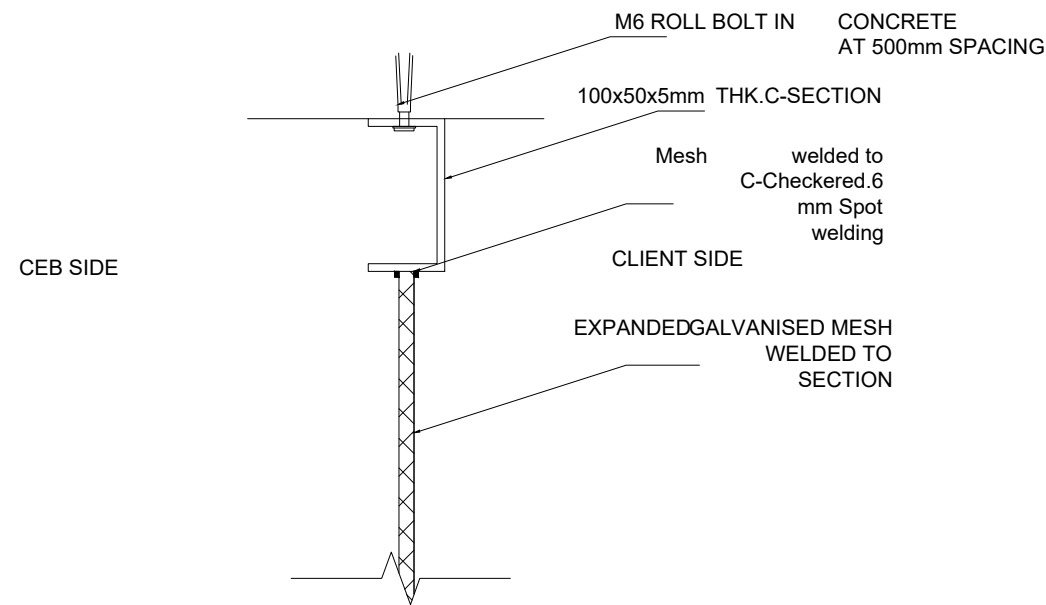








COLUMN SCHEDULE



DEMARCATIION FENCE FIXING DETAILS  
(top and bottom with fixing to be on CEB side)

PROJECT  
Jawaharlal Nehru Hospital Rooftop PV Farm

CLIENT  
DBM Energy Ltd

Title  
Column Schedule & Fence Fixing Details

Notes

- This drawing to be read in conjunction with all relevant Architects and M & E Engineer's drawings.
- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
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4. Cover to bars; mm

Foundation	-50
Column ≤ 200mm	-30
Column > 200mm	-35
Top Mesh	-35
Beams to links	-30
Slab[ Top and Bottom]	-25

5. Concrete strength at 28 days to be as follows:

a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa

6. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6. LEGEND.

COLUMNS AND WALL SHOWN THUS:

ARE UNDER	
ARE OVER	
ARE UNDER AND OVER	

7. All columns are centred on the bases, unless otherwise noted.

Revision Note					Mark	Date	By
Designed	Drawn	Checked	Passed	Date	Scale		
VD	V.L	VD	VD	Jul 2022	1:75		

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BRN: 113007370

Job Number/Drawing Number  
**21/1008/L003**

Revision  
T1

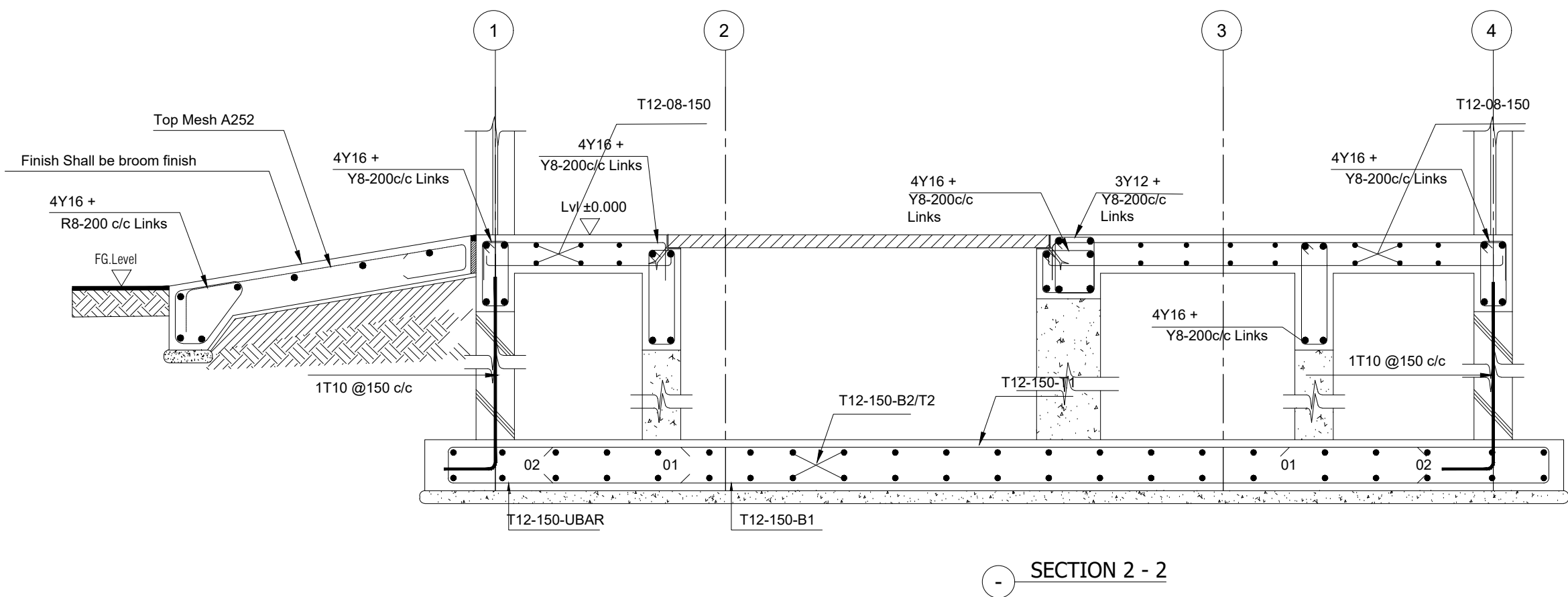






Revision  
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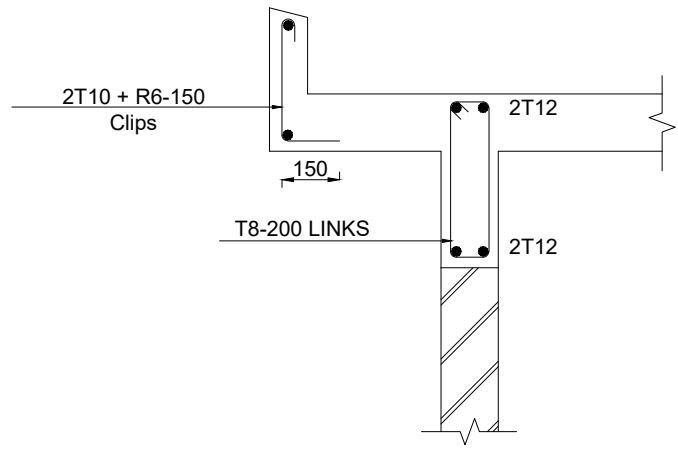


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 Mob: 59419005  
 VAT: 17252628  
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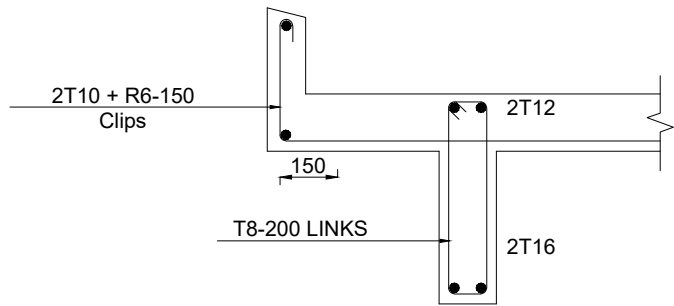
Job Number/Drawing Number  
**21/1008/R001**

Rev: 1  
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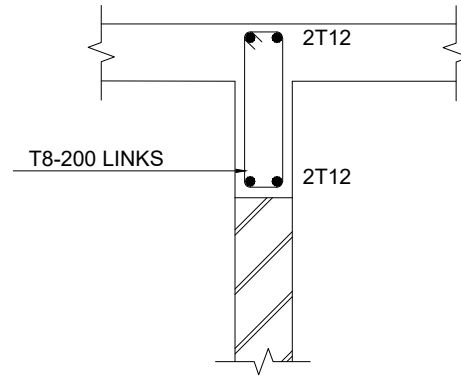




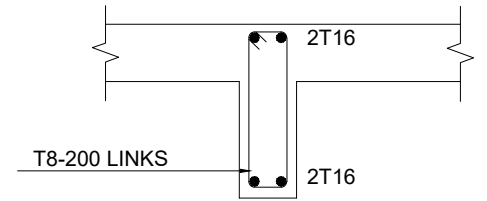
SECTION 1 - 1



SECTION 2 - 2



SECTION 3 - 3



SECTION 4 - 4

PROJECT  
Jawaharlal Nehru Hospital Rooftop PV Farm

CLIENT  
DBM Energy Ltd  
Title  
Roof R.C Details

Notes

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- Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.
- All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.

4. Cover to bars;	mm
Foundation	-50
Column ≤ 200mm	-30
Column > 200mm	-35
Top Mesh	-35
Beams to links	-30
Slab[ Top and Bottom]	-25

- Concrete strength at 28 days to be as follows:
 

a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa
- Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground-bearing slabs.

6. LEGEND.

COLUMNS AND WALL SHOWN THUS:

- ARE UNDER
- ARE OVER
- ARE UNDER AND OVER

- All columns are centred on the bases, unless otherwise noted.

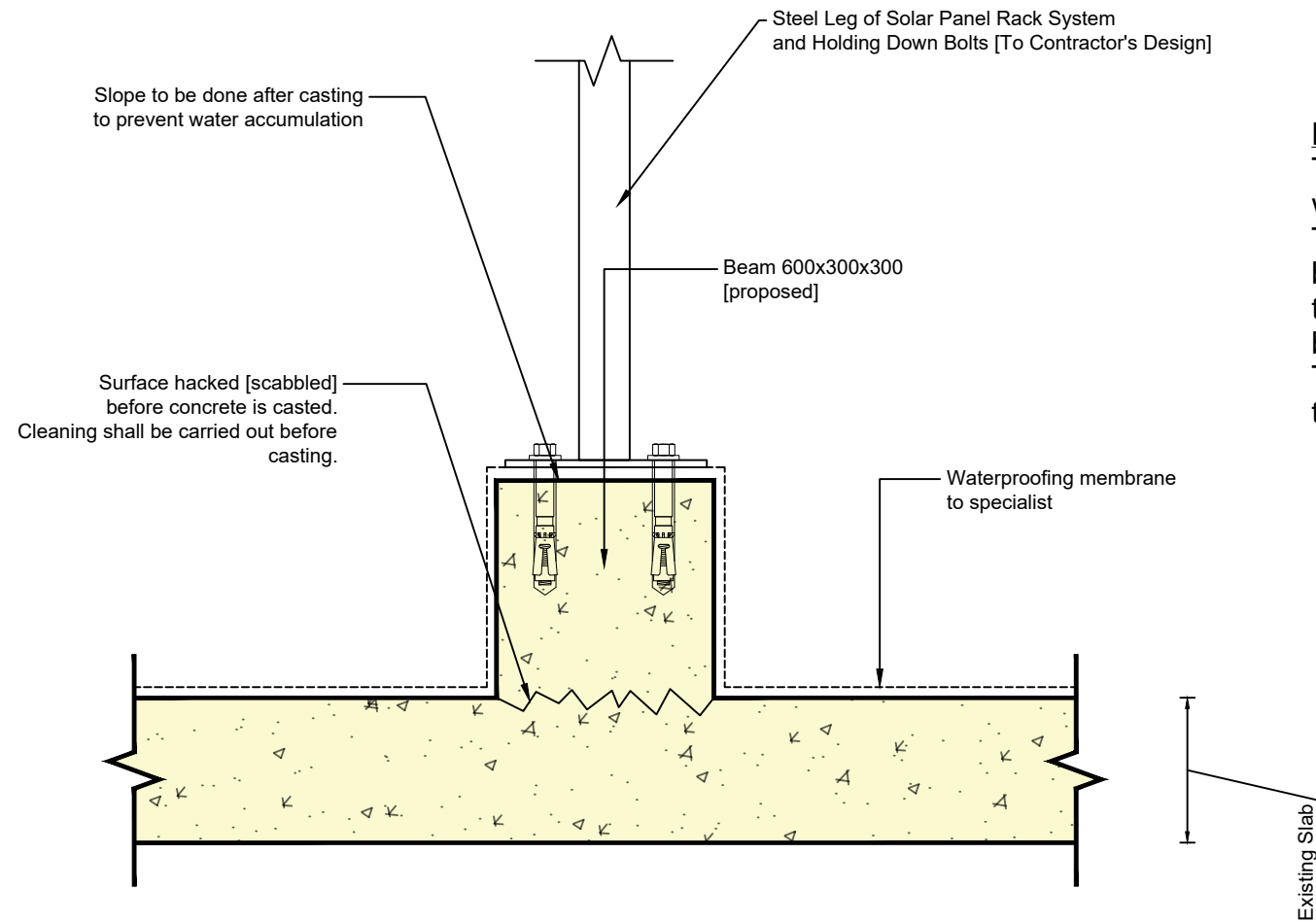
Revision Note				Mark	Date	By
Designed VD	Drawn V.L	Checked VD	Passed VD	Date Jul 2022	Scale 1:75	

**V . Dabee Engineers**  
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BRN: 113007370

Job Number/Drawing Number  
**21/1008/R003**

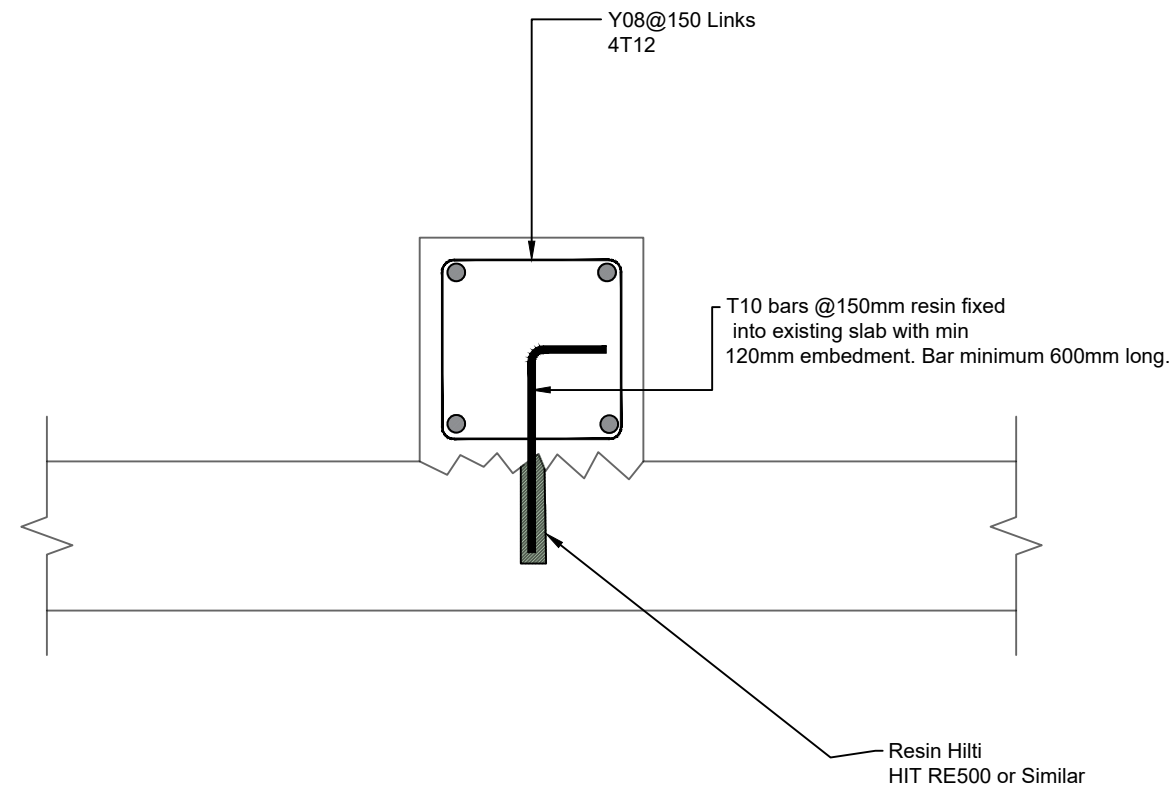
Revision  
**T1**





#### NOTE:

The drawing is a conceptual drawing with proposed waterproofing treatment.  
The Contractor shall propose the type of fixation system based on the PV Frame Structure and technology he is adopting and the report shall consist of drawings and calculation signed by a registered civil engineer as per specifications requirements.  
The Contractor shall propose a method of fixation without affecting the existing roof slab.



#### The proposal should

- Resin fix T10 bars into the slab @ maximum 150mm spacing along the length of the beam.
- Use Resin Hilti HIT RE500 or similar approved
- Fix Reinforcement bars for continuous beam
- Place formwork and cast in for the steel members
- Pour concrete
- Allow for curing minimum 14 days
- Fix framing for solar panels
- Apply waterproofing system to manufacturer's details

Designed CC	Drawn CC	Checked VD	Passed VD	Date Nov 2021	Scale 1:10	
Revision Note				Mark	Date	By

NOTES	
1. This drawing to be read in conjunction with all relevant Architect's and M & E Engineer's drawings.	
2. Dimensions must not be scaled or assumed. After Notification, discrepancies or missing dimensions will be corrected in writing by the Engineer.	
2. All excavations for foundations to be inspected and approved by the Engineer before casting of blinding concrete.	
3. A soil bearing capacity of 200 kN/m2 was assumed to design the bases.	
The Engineer reserves the right to change the size of the bases, during trial pits or excavation if he considers the assumed soil bearing capacity is not appropriate.	
4. All columns are centred on the bases, unless otherwise noted.	
5. Concrete strength at 28 days to be as follows:	
a) Foundations	Grade 30Mpa
b) Columns	Grade 30Mpa
c) Surface Beds	Grade 30Mpa
d) Walls	Grade 30Mpa
e) Beams	Grade 30Mpa
f) Slabs	Grade 30Mpa
5. Grade 15Mpa blinding concrete to be cast under all foundations, strip footings and ground bearing slabs.	
6. LEGEND.	
COLUMNS AND WALL SHOWN THUS:	
ARE UNDER	
ARE OVER	
ARE UNDER AND OVER	
7. This Drawing Should Be Read In Conjunction With Drawing No.	
8. Cover to bars: Foundation- Bases, Strip Footing -50	
Column -30	
Top Mesh -35	
Beams [to links Bottom .top ] -30	
Beams [to links Sides] -30	
Slab [ top and bottom] -25	

PROJECT
JN
Rooftop PV Farm

CLIENT
BDM Energy Ltd

DRAWING TITLE
Roof Plinth Conceptual Detail

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Drawing Number <b>21/1020/R005</b>	Revision <b>T0</b>