CONSTRUCTION 100 HOUSING UNITS TO RE HOUSING THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP

PACKAGE NO. 02

THE MOSQUE

PROJECT NO.: PAL 10-00070416 (PACKAGE 02)
ARCHITECTURAL DRAWINGS
# LIST OF DRAWINGS

<table>
<thead>
<tr>
<th>NO.</th>
<th>DRAWING NAME</th>
<th>DWG NO.</th>
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<td>MO-A-000</td>
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<td>MOSQUE COORDINATION</td>
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<td>03</td>
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<td>07</td>
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<td>SOUTH ELEVATION (1)</td>
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<td>WEST ELEVATION (2)</td>
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<td>NORTH ELEVATION (3)</td>
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<td>MO-A-011</td>
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<td>22</td>
<td>ABLUTION, TOILETS &amp; RAMPS DETAILS</td>
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<td>23</td>
<td>BLOCK WORKS DETAILS</td>
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### TABLE OF COORDINATION POINTS FOR THE MOSQUE

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## Basement Floor Schedule

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<th>Skirting</th>
<th>Wall</th>
<th>Ceiling</th>
<th>Notes</th>
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**NOTES:**
- DRAWING NO.:
- DRAWING TITLE:
- FOR TENDER ONLY
- CONSULTANT:
- PROJECT TITLE:
- CLIENT: MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
- EMPLOYER: PALESTINIAN NATIONAL AUTHORITY
- BUILDING NAME:

---

## Doors Table

<table>
<thead>
<tr>
<th>Door No.</th>
<th>Structural Dim.</th>
<th>Features &amp; Switches</th>
<th>Description</th>
<th>QL.</th>
<th>Drawing</th>
<th>Location</th>
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<tr>
<td>D1</td>
<td>240 x 200</td>
<td>Exit Switch</td>
<td>Exit Doors Top Left</td>
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<td>D2</td>
<td>220 x 100</td>
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<td>Exit Doors One Left</td>
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<td>B.C. TOILET DOOR</td>
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<td>D4</td>
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<td>LIFT ENTRANCE, BOND STAIR</td>
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<td>D5</td>
<td>220 x 100</td>
<td>Exit Switch</td>
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<td>HOSPITAL DOOR</td>
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<td>D6</td>
<td>220 x 140</td>
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<td>TOILET</td>
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## Ground Floor Finishing Table

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<th>Floor</th>
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<th>Wall</th>
<th>Ceiling</th>
<th>Notes</th>
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<tr>
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## Mezzanine Floor Finishing Table

<table>
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<th>Room Name</th>
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<th>Wall</th>
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<th>Notes</th>
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<tr>
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## Windows Table

<table>
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<th>Structural Dim.</th>
<th>Dimensions</th>
<th>Description</th>
<th>QL.</th>
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<th>Location</th>
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<tr>
<td>W1</td>
<td>140 x 200 x 110</td>
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<td>Glazed Window</td>
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<td>W2</td>
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<td>W3</td>
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<td>W4</td>
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<td>W5</td>
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<td>W6</td>
<td>60 x 400 x 160</td>
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<td>W8</td>
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<td>W9</td>
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<td>Steel Window</td>
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<td>INTERIOR</td>
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## Flooring Schedule

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<th>Wall</th>
<th>Ceiling</th>
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**NOTES:**
- P : Prime Skin, Terraced Skirting
- TP : Terraced Skin, Terraced Plate
- NP : Non-Slip ceramic Tiling
- CT : Concrete Tiling

---

## Ceiling Schedule

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<tr>
<th>Room Name</th>
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<th>Ceiling</th>
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</table>

**NOTES:**
- P : Prime Skin, Terraced Skirting
- TP : Terraced Skin, Terraced Plate
- NP : Non-Slip ceramic Tiling
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---

## Skirting Schedule

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<th>Room Name</th>
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<th>Wall</th>
<th>Ceiling</th>
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</table>

**NOTES:**
- P : Prime Skin, Terraced Skirting
- TP : Terraced Skin, Terraced Plate
- NP : Non-Slip ceramic Tiling
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---

## Notes:

**FOR TENDER ONLY**

**CLIENT:**
- PALESTINIAN NATIONAL AUTHORITY
- MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

**EMPLOYER:**
- PALESTINIAN NATIONAL AUTHORITY
- PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE (UNDP/PAFF)

**PROJECT TITLE:**
- CONSTRUCTION OF 100 MUGHALI HOUSES IN THE WEST BANK AND GAZA STRIP
- PROJECT NO.: PA-112-10112 (REG 8212)

**CONSULTANT:**
- Center for engineering and planning

**BUILDING NAME:**
- THE MOSQUE

**DRWNG NO.:**
- NO-A-002

**DATE:**
- April 2011

**SCALE:**
- 1:100
SECTION A - A

SECTION B - B

CRESCENT DETAIL

DOME DETAILS

NOTES:

DRAWING NO.: MO-A-010

DATE: APRIL 2011

SCALE:
ABLUTION & TOILETS DETAILS

ENTRANCE RAMP DETAILS

NOTES :

DRAWING NO.: MO-A-021
DATE: APRIL 2011
SCALE: 1:25

PROJECT TITLE: CONSTRUCTION OF 130 MUSLIM DWELLINGS IN THE SHATAHOOD GROUND

CONSULTANT: Center for engineering and planning

BUILDING NAME: THE MOSQUE

CLIENT: PALESTINIAN NATIONAL AUTHORITY

EMPLOYER: MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

NOTES: DRAWING TITLE: ABLUTION, TOILETS & RAMP DETAILS

SECTION 1-1

ENTRANCE RAMP DETAILS

SCALE 1:25

SECTION 2-2

SCALE 1:5

SECTION 3-3

Hand Rail for Ramp

Wall Mounted Hand Rail for Ramp

20x30 CERAMIC TILES

PLASTER & EMULSION PAINT

20x30 CERAMIC TILES

PLASTER & EMULSION PAINT

ENTRANCE RAMP DETAILS

Fix screw

Galvanized steel plate

20x20x4mm/50cm

Galvanized Steel pipe

2.5" arc

Profile 60x20x2mm

ENTRANCE RAMP DETAILS
STRUCTURAL DRAWINGS
<table>
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<th>DRAWING NAME</th>
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<tr>
<td>02</td>
<td>FOUNDATIONS LAYOUT AND DIMENSIONS</td>
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<td>MORE DETAILS IN GROUND BEAMS</td>
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DRAWING NO.: MO-8-001  
DRAWING TITLE: GENERAL STRUCTURAL DETAILS  
DATE: APRIL 2011  
SCALE: AS SHOWN

- BARS CUTOFF IN BEAMS:
  Bar extension in beams shall be not less than shown below:

  1. $L_1 = 0.25L_n$
  2. $L_2 = 0.25L_n$ or $0.25L_n$ which is longer.
  3. $L_3 = 0.15L_n$
  4. $L_4 = 0.33L_n$ or $0.33L_n$ which is longer.

- STIRRUPS CONCENTRATION DETAILS:

  - BARS CUTOFF IN BEAMS

  - CRITICAL SECTION

  - TYPICAL STAGGERING REINFORCEMENT DETAILS

  - STIRRUPS CONCENTRATION DETAILS

- UNLESS SHOWN OTHERWISE ON DRAWINGS

- GENERAL STRUCTURAL DETAILS

- BUILDING NAME:  
  THB MOSQUR

- CLIENT:  
  PALESTINIAN NATIONAL AUTHORITY  
  MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

- EMPLOYER:  
  PALESTINIAN NATIONAL AUTHORITY

- DESIGN CODE IS 45318-28.

- STEEL BARS PROVIDED BY CONTRACTOR (40CrMnMoA).

- CONCRETE PROVIDED BY CONTRACTOR (C55/60).

- STEEL COVER:
  - FOR FLOORING (CAST AGAINST SOIL): 7.5 cm (FOR PROTECTED CONCRETE) 4.0 cm
  - FOR SQUARES AND BARS: 4.0 cm
  - FOR WALLS: 5.0 cm
  - FOR BARS: 3.0 cm

- MIN. LAI FOR STEEL BARS = 50 cm OR 50 x O.W. X WHICH IS SUBMITTED.

- T.L. TOTAL LENGTH

- TOTAL BEARING CAPACITY IS 220 NM/140.

- BAR SIZE:  
  STANDARD RADIUS OF BENDS AND HOOKS AS GIVEN BELOW TO BE USED UNLESS SPECIFICALLY SHOWN OTHERWISE.

<table>
<thead>
<tr>
<th>BAR SIZE</th>
<th>GRADE 250</th>
<th>GRADE 420</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
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<tr>
<td>8</td>
<td>15</td>
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</tr>
<tr>
<td>10</td>
<td>20</td>
<td>30</td>
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<tr>
<td>12</td>
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<tr>
<td>14</td>
<td>28</td>
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<tr>
<td>16</td>
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<td>68</td>
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<tr>
<td>25</td>
<td>50</td>
<td>75</td>
</tr>
</tbody>
</table>

- DRAWING TITLE:  
  GENERAL STRUCTURAL DETAILS

- FOR TENDER ONLY
GROUND BEAMS DETAILS FOR THE LOWER & UPPER LEVELS

NOTES: -

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR REVIEW BEFORE START WORK.
2. ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREVIOUS ARCHITECTURAL, ELEVATION, AND OTHER DRAWINGS.
3. IF THERE IS NO DISCREPANCY IN DRAWINGS, CONSTRUCT IT IN THIS PRICE.
4. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PLACED 1-COAT Primer AND 2-Coats of PCR STAINS.
5. DESIGN CODE IS ACI 318-05.
6. STEEL BARS PROVIDED BY CONTRACTOR (440MPa) Epoxy-MRI.
7. CONCRETE PROVIDED BY CONTRACTOR.
8. FOR COMPRESSION STRENGTH =
   - For RC columns & Walls = 25 MPa
   - For RC Slab = 35 MPa
   - For RC Footings = 35 MPa
   - For RC Stairs = 25 MPa
   - For Plan Concrete = 25 MPa
9. STEEL COVERS:
   - For Footings (Cast Against Soil) = 25 cm
   - For Protected Connections = 40 cm
   - For Columns and Beams = 40 cm
   - For Walls = 25 cm
   - For Slabs = 15 cm
10. Min. LA6 for Steel bars = 10mm OR 50x50 rail which is welded.
11. T.T. TOTAL LENGTH
12. Total Bearing Capacity is 200 KN/m².

GROUND BEAMS DETAILS (GB1) SCALE 1:10
GROUND BEAMS DETAILS (GB2) SCALE 1:10
GROUND BEAMS DETAILS (GB3) SCALE 1:10
GROUND BEAMS DETAILS (GB4) SCALE 1:10
GROUND BEAMS DETAILS FOR THE LOWER & UPPER LEVELS SCALE 1:10

FOR TENDER ONLY

CLIENT
PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER
UNDP (UNDESA) PROGRAMME OF ASSISTANCE TO THE PARIETAL REBUILDING PROGRAM (UNDP/UNDESA)

CONSULTANT
Center for engineering and planning

BUILDING NAME
THIR MOSIUR

DRAWING TITLE
GROUND BEAMS DETAILS FOR THE LOWER & UPPER LEVELS

DRAWING NO.: MD-05-005
DATE: APRIL 2011
SCALE: AS SHOWN
TYPICAL DETAILS FOR ISOLATED FOOTING

Table of Footings (ISOLATED)

<table>
<thead>
<tr>
<th>FOOTING</th>
<th>COL. NO.</th>
<th>TOTAL</th>
<th>FOOTING SIZE</th>
<th>REINFORCEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOT. NO.</td>
<td></td>
<td></td>
<td>(m)</td>
<td>(mm)</td>
</tr>
<tr>
<td>F1</td>
<td>1,2,3,7,12,24,25,30,31,32,33,34,37,38,39,40</td>
<td>17</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>F2</td>
<td>26,29,35,36</td>
<td>4</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>F3</td>
<td>27,28</td>
<td>2</td>
<td>220</td>
<td>220</td>
</tr>
<tr>
<td>F4</td>
<td>6,7,18,21</td>
<td>4</td>
<td>270</td>
<td>270</td>
</tr>
<tr>
<td>F5</td>
<td>13,14,19,20</td>
<td>4</td>
<td>360</td>
<td>360</td>
</tr>
</tbody>
</table>

NOTE:
FOR FOOTINGS F4 & F5 WHICH CONNECTED WITH THE BASEMENT WALL, ADD TOP REINF. 1 @ 15cm IN EACH DIRECTION.

TYPICAL DETAILS FOR COMBINED FOOTING

Table of Footings (COMBINED)

<table>
<thead>
<tr>
<th>FOOTING</th>
<th>COL. NO.</th>
<th>TOTAL</th>
<th>FOOTING SIZE</th>
<th>REINFORCEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOT. NO.</td>
<td></td>
<td></td>
<td>(m)</td>
<td>(mm)</td>
</tr>
<tr>
<td>CF1</td>
<td>4,5,11,12</td>
<td>2</td>
<td>450</td>
<td>190</td>
</tr>
</tbody>
</table>

NOTE:
FOR FOOTINGS F4 & F5 WHICH CONNECTED WITH THE BASEMENT WALL, ADD TOP REINF. 1 @ 15cm IN EACH DIRECTION.

FOR TENDER ONLY

MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

BUILDING NAME: THR MOSQUR

DRAWING TITLE: FOUNDATIONS DETAILS

DRAWING DATE: 04-08-008
NOTES: 
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR REVIEW BEFORE START WORK.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE FURNISHED IN CONJUNCTION WITH THE PRESENT ARCHITECTURAL, CIVIL AND OTHER DRAWINGS.
- IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- CONCRETE SURFACE IN CONCRETE WALLS SHALL BE PATTERNED BEFORE 2-COATS OF MORTAR.
- DESIGN CODE IS ACI 318-05.
- STEEL BARS PROVIDED BY CONTRACTOR (1400) 6mm - 40 mm.
- CONCRETE PROVIDED BY CONTRACTOR.
- STEEL BARS PROVIDED BY CONTRACTOR:
  - FOR R.C. COLUMNS & WALLS - 60 MPa
  - FOR R.C. PLANT - 50 MPa
  - FOR R.C. FLOORS - 40 MPa
  - FOR R.C. LEVELS
  - FOR PLAN CONCRETE - 20 MPa
- STEEL COVER:
  - FOR FLOORING: (C.B. 15 cm.)
  - (C.B. 15 cm. 35 mm."
  - (C.B. 15 cm. 40 mm."
  - (C.B. 15 cm. 40 mm."
  - (C.B. 15 cm. 40 mm."
  - (C.B. 15 cm. 40 mm."
- M.E. LAY FOR STEEL BAR = 0.0 mm. OR 5 cm. ON WHICH IS SPACED.
- T.L. TOTAL LENGTH.
- SOIL BASE CAPACITY IS 200 KN/m². 

FOR TENDER ONLY

CLIENT:
PALESTINIAN NATIONAL AUTHORITY
MINSRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER:
PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

PROJECT NAME:
BUILDING NAME:

CONSULTANT:

DRAWING TITLE:

DRAWING NO:

DATE:

SCALE:

NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR REVIEW BEFORE START WORK.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL ENGINEERING, AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- ALL CONCRETE SURFACES IN CONTACT WITH SOIL WILL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BRUSHED.
- DESIGN CODE IS ACI 318-05.
- STEEL BARS PROVIDED BY CONTRACTOR (#4000) 5000 MPA.
- CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Per cu.
  - FOR RC. COLUMNS & WALLS 65 MPA
  - FOR RC. SLABS 50 MPA
  - FOR RC. FOOTINGS 35 MPA
  - FOR RC. Beam 40 MPA
  - FOR PLANT CONCRETE 30 MPA
- STEEL COVER:
  - FOR FLOORING (CAST AGAINST SOIL) 7.5 cm
  - FOR PROTECTED CONCRETE 4.0 cm
  - FOR COLUMNS AND BEAMS 5.0 cm
  - FOR WALLS 5.0 cm
  - FOR SLABS 2.5 cm
- MIN. LAW FOR STEEL BAR = 1000 mm OR 50 x 50 mm WHICH IS DEGREES.
- T.L. = TOTAL LENGTH
- SOIL SHEARING CAPACITY IS 200 KN/m².

FOR TENDER ONLY

CLIENT
PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER
UNDP

PROJECT NAME
BUILDING NAME
THR MOSQUE

DRAWING TITLE
BASEMENT SLAB DETAILS (2/2)

DRAWING NO.
MO-8-S12

DATE
APRIL 2011

SCALE
SAME AS SHOWN
STAGGERING REINFORCEMENT DETAILS

NOTES:-

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR REVIEW BEFORE START WORK.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERMENNENT ARCHITECTURAL, CIVIL, DEFENSE AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- CONCRETE SURFACE IN CONTACT WITH TUBES SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMIN.
- DESIGN CODE IS ACI 318-05.
- STEEL BARS PRODUCED BY CONTRACTOR (5400 MPa) W.I.P.
- CONCRETE PRODUCED BY CONTRACTOR FOR COMPRESSION STRENGTH FOR ALL:
  - FOR R.C. COLUMNS & WALLETS - 50 MPa
  - FOR R.C. SLABS - 50 MPa
  - FOR R.C. FOOTINGS - 70 MPa
  - FOR R.C. LEVELS - 35 MPa
  - FOR PLAN CONCRETE - 30 MPa
- STEEL COVERS:
  - FOR FOOTINGS (CAST AGAINST SOIL) - 75 mm
  - FOR PROTECTED CONCRETE - 60 mm
  - FOR COLUMNS AND BEAMS - 50 mm
  - FOR WALLS - 50 mm
  - FOR SLABS - 50 mm
- MIN.LAY FOR STEEL BAR = 5mm OR 50x5mm BARS WHICH IS GREATER.
- T.L. TOTAL LENGTH.
- S.D. DEEPPING CAPACITY IS 200 KN/m².

---

MEZZANINE SLAB DETAILS (2/2)

COLUMN STRIP (CS5) MIDDLE STRIP (MS3) COLUMN STRIP (CS4) MIDDLE STRIP (MS2) COLUMN STRIP (CS3)

(1 RIBS) (4 RIBS) (4 RIBS) (5 RIBS) (5 RIBS)
# Beams Reinforcement Table for Mezzanine Slab

<table>
<thead>
<tr>
<th>No.</th>
<th>Dim (cm)</th>
<th>Bottom</th>
<th>Top</th>
<th>Stirrups</th>
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<tr>
<td></td>
<td>W x H</td>
<td>Reinf.</td>
<td>Reinf.</td>
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<tr>
<td>B6</td>
<td>20 x 60</td>
<td>4016</td>
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<td>1010925cm-ENDS</td>
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<td></td>
<td></td>
<td>1010940cm-MID</td>
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<tr>
<td>B7</td>
<td>20 x 40</td>
<td>4014</td>
<td>2914</td>
<td>1010915cm-ENDS</td>
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<td></td>
<td></td>
<td>1010930cm-MID</td>
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<td>B8</td>
<td>20 x 60</td>
<td>4014</td>
<td>2914</td>
<td>1010925cm-ENDS</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1010940cm-MID</td>
</tr>
<tr>
<td>B9</td>
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<td>4014</td>
<td>2914</td>
<td>1010915cm-ENDS</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1010930cm-MID</td>
</tr>
<tr>
<td>B10</td>
<td>50 x 30</td>
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<td>4014</td>
<td>1010912.5cm-ENDS</td>
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<td></td>
<td></td>
<td>1010920cm-MID</td>
</tr>
<tr>
<td>B11</td>
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<td>4014</td>
<td>3914</td>
<td>1010912.5cm-ENDS</td>
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<td></td>
<td></td>
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<td>40 x 30</td>
<td>4014</td>
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<td>1010920cm-MID</td>
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<td>1010920cm-MID</td>
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<td>5014</td>
<td>4014</td>
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<td>1010920cm-MID</td>
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</table>

**NOTES:**
- **Drawing No.:** MO-8-017
- **Drawing Title:** Beams Details for Mezzanine Slab (2/2)
- **Scale:** 1:100
- **Date:** April 2011
- **Scale as shown**
### NOTES:

- It is the contractor's responsibility to prepare and submit working drawings for inspection before start work.
- All of the structural drawings are to be held in conjunction with the pertinent architectural, civil, electrical, and other structural drawings.
- If there is any discrepancy in drawings, the contractor must consider it in his price.
- Concrete surface in contact with soil shall be painted 1-coat primer and 2-coats of hot trend.
- Design code is ACI 318-05.
- Steel bars provided by Contractor (3443) 2mm - 12mm.
- Concrete provided by Contractor for compressive strength as:
  - For RC columns & Walls: 30 MPa
  - For RC Slabs: 15 MPa
  - For RC Foundations: 20 MPa
- For RC Beams: 25 MPa
- For Plan concrete: 15 MPa
- Steel covers:
  - For roofings: 50 mm
  - For RC beam: 40 mm
  - For columns and diaphrags: 40 mm
  - For walls: 50 mm
  - For beams: 25 mm
- Min. Lay for Steel bar = 3 x dia. or 50 x dia. whichever is greater.
- T.L. total length
- Soil bearing capacity is 200 kN/m².

### BUILDING NAME:

- **Mosque**

### FOR TENDER ONLY

**CLIENT:**
Palestinian National Authority
Ministry of Public Works & Housing (MPWH)

**EMPLOYER:**
UNDP: Palestinian National Authority

**CONSULTANT:**
Center for Engineering and Planning

**PROJECT NAME:**
GROUND SLAB DETAILS (2/4)

**DRAWING NO.:**
MO-5-019

**DATE:**
April 2011

---

### TABLE: Ground Slab Details

**COLUMN STRIP (CS1)**

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**MIDDLE STRIP (MS1)**

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</tbody>
</table>

**COLUMN STRIP (CS2)**

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</table>

**MIDDLE STRIP (MS2)**

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</thead>
<tbody>
<tr>
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</tbody>
</table>

---

**DRAWING TITLE:**
GROUND SLAB DETAILS (2/4)

**SCALE:**
1:100

---

**STAGGERING REINFORCEMENT DETAILS**

Not to scale
BEAMS DETAILS FOR GROUND SLAB (1/2)

REINF. FOR BEAM NO. (B3)
SECTION: B3-1
SCALE: 1:50

REINF. FOR BEAM NO. (B2)
SECTION: B2-1
SCALE: 1:50

REINF. FOR BEAM NO. (B4)
SECTION: B4-1
SCALE: 1:50

REINF. FOR BEAM NO. (B4)
SECTION: B3-2
SCALE: 1:50

NOTES: -
- IT IS THE CONTRACTOR’S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR REVIEW BEFORE START WORK.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERMITTIVE ARCHITECTURAL, CIVIL DESIGN
  AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISCONCIENCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PRINTED 1-COAT PRIMER AND 2-COATS OF HIC BRAND.
- DESIGN CODE IS 401-318-08.
- STEEL BARS PROVIDED BY CONTRACTOR (S400) 20-400 MPa.
- CONCRETE PRINTED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fc=:
  - FOR R.C. COLUNNS & WALLETS 50 MPa
  - FOR R.C. SLABS 40 MPa
  - FOR R.C. FLOOR 30 MPa
  - FOR R.C. LEVELS 25 MPa
  - FOR WELD 30 MPa
- STEEL COVERS:
  - FOR FOUNDATIONS [CAST AGAINST SOIL] 7.5 mm
  - FOR PIPED CONCRETE 10.0 mm
  - FOR COLUNNS AND BEAMS 6.0 mm
  - FOR WALLS 5.0 mm
  - FOR SLABS 5.0 mm
- MIN. Lay FOR STEEL BAR = 30mm ON 50 x 50 mm WHICH IS SPACED.
- T.L. : TOTAL LENGTH.
- T.B. : BEARING CAPACITY IS 200 KN/m².
NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR OWNER BEFORE START WORK.
- ALL OF THE WORKSHOP DRAWINGS ARE TO BE SUBMITTED IN CONJUNCTION WITH THE APPROPRIATE GENERAL ARCHITECTURAL, OIL, DEFENSE AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF PERMABOND.
- DESIGN CODE IS ACI 318-08.
- STEEL BARS PROVIDED BY CONTRACTOR (O.400) 20-40 MPA.
- CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSION STRENGTH FOR ALL:
  - FOR RE. COLUMNS & WALLS: 30 MPA
  - FOR RE. SECTIONS: 15 MPA
  - FOR RE. SHEET: 15 MPA
  - FOR PLAN CONCRETE: 15 MPA
- STEEL COVERS:
  - FOR ROOFTOPS: 7.5 cm
  - FOR unprotected concrete: 7.5 cm
  - FOR COLUMNS AND SECTIONS: 4.0 cm
  - FOR WALLS: 5.0 cm
  - FOR GLASS: 10 cm
- MIN. LAY FOR STEEL BARS = 600 mm OR 50 x 50 MM WHICH IS GREATER.
- T.L.: TOTAL LENGTH
- TOE BEARING CAPACITY IS 200 KN/m².
NOTES: -

- IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOPS DRAWINGS FOR REVIEW BEFORE START WORKS.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE RESPECTIVE ARCHITECTURAL, CIVIL, DEFENSE AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
- CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PLACED I-COAT Primer AND 2-COATS OF NCH Primer.
- DESIGN CODE IS ACI 318-05.
- STEEL BAR PROVIDED BY CONTRACTOR (0480) 20.80 MPA.
- CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH FOR ALL:
  - FOR R.C. COLUMNS & WALLS = 30 MPA
  - FOR R.C. SLAB = 50 MPA
  - FOR R.C. FOOTING = 30 MPA
  - FOR R.C. BEAMS = 30 MPA
  - FOR PLAN CONCRETE = 30 MPA
- STEEL COVERS:
  - FOOTINGS: 7.5 cm (FROM PROTECTOR CONCRETE) 40.0 cm
  - FOR COLUMNS AND BEAMS: 40.0 cm
  - FOR WALLS: 50.0 cm
  - FOR SLAB: 3.5 cm
- MIN. LAY FOR STEEL BAR = 40mm OR 50 A WAH AND WHICH IS DECREASE.
- T.L. TOTAL LENGTH.
- SOIL BEARING CAPACITY IS 208 kN/m².

FOR TENDER ONLY

CLIENT: PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER: UNDP/PAIP

PROJECT NAME: BUILDING NAME: THE MOSQU

CONSULTANT: PALESTINIAN CENTER FOR ENGINEERING & PLANNING

DRAWING TITLE: STAIRS REINF. DETAILS (1/2)

DRAWING NO.: MSD-028

DATE: APRIL 2011
NOTES:

- It is the contractor's responsibility to prepare and submit workshop drawings for review before start work.
- All of the structural drawings are to be held in conjunction with the pertinent architectural, civil, defense, and other structural drawings.
- If there is any discrepancy in drawings, the contractor must consider it in his price.
- Concrete surface in contact with soil shall be painted 1-coat primer and 2-coats of hot brown.
- Design Code is ACI 318-05.
- Steel bars provided by Contractor (SN02) 6mm x 300 mm.
- Concrete provided by Contractor for compressive strength for all:
  - For reinforced columns & walls: 30 MPa
  - For reinforced beams: 20 MPa
  - For reinforced slabs: 20 MPa
  - For reinforced stirrups: 20 MPa
  - For plain columns: 20 MPa
- Steel covers:
  - For foundations (CAST AGAINST SOIL): 7.5 cm
  - (FOR PROTECTED CONCRETE): 4.0 cm
  - For columns and beams: 4.0 cm
  - For slabs: 3.5 cm
- Min. lay for steel bars = 50mm on 50 x 50 mm grid which is overhead.
- T.L.: Total length.
- Total bearing capacity is 200 kN/m².

GENERAL DETAILS OF STAIR
Scale: 1:50

GENERAL DETAILS FROM LANDING TO SLAB FLOOR
Scale: 1:50

SLAB FLOOR

GROUND BEAM

GENERAL DETAILS FROM GROUND BEAM TO LANDING
Scale: 1:50

STAIRS REINF. DETAILS

FOR TENDER ONLY

CLIENT:
Palestinian National Authority
Ministry of Public Works & Housing

EMPLOYER:
UNDP

PROJECT NAME:
Construction of 100 Housing Units

CONSULTANT:
Center for engineering and planning

BUILDING NAME:
The Mosque

DRAWING TITLE:
Stairs Reinforcement Details (2/2)

DRAWING NO.:
MO-S-028

DATE:
April 2011

SCALE:
As shown
NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR EXAMINATION BEFORE START WORK.
- ALL OF THE STRUCTURAL DRAWINGS ARE TO BE RECORDED IN CONJUNCTION WITH THE PRESENT ARCHITECTURAL DRAWINGS AND OTHER STRUCTURAL DRAWINGS.
- IF THERE IS ANY DISAGREEMENT IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN THE PRICE.
- CONCRETE SURFACE IN CONTACT WITH SALT SHALL BE PAIRED WITH 1-COAT Primer AND 2-COATS OF NOT BRANDED.
- REINFORCEMENT CODES ARE ACI 318-05.
- STEELbars PROVIDED BY CONTRACTOR (4400) 35,000/MT.
- CONCRETE PROVIDED BY CONTRACTOR
- FOR COMPRESSIVE STRENGTH: 30 MPa
  - FOR R.C. COLUMNS & WALLS = 25 MPa
  - FOR R.C. SLABS = 20 MPa
  - FOR R.C. BEAMS = 20 MPa
  - FOR PLAIN CONCRETE = 20 MPa
- STEEL COLUMNS:
  - FOR FLOORING (CAST IN PLACE): 7.5 cm
  - FOR STRUCTURAL COLUMNS: 6.0 cm
  - FOR WOOD: 5.5 cm
  - FOR PILLARS: 5.0 cm
- MIN. T.F. FOR STEEL BARS = 500 mm OR 50 + 2 X 10, WHICH IS GREATER.
- T.T.: TOTAL LENGTH
- T.T. DEVIATION CAPACITY IS 200 KPa/m.

FOR TENDER ONLY

CLIENT:
PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER:
UNDP (UNDESA)

PROJECT NAME:
CONSULTATION IN SUPPORT OF THE PALESTINIAN AUTHORITY'S PROJECT

CONSULTANT:
Center for Engineering and Planning

BUILDING NAME:
THR MOSQUER

DRAWING TITLE:
STAIR SLAB DETAILS

DRAWING NO.: MO-S-090

DATE: APRIL 2011
SCALE: AS SHOWN
MECHANICAL DRAWINGS
## LIST OF DRAWINGS FOR PLUMBING

<table>
<thead>
<tr>
<th>NO.</th>
<th>DRAWING NAME</th>
<th>DWG NO.</th>
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<tbody>
<tr>
<td>01</td>
<td>SANITARY NETWORK FOR BASEMENT FLOOR</td>
<td>M0-M-001</td>
</tr>
<tr>
<td>02</td>
<td>WATER NETWORK FOR BASEMENT FLOOR</td>
<td>M0-M-002</td>
</tr>
<tr>
<td>03</td>
<td>SANITARY NETWORK FOR GROUND FLOOR</td>
<td>M0-M-003</td>
</tr>
<tr>
<td>04</td>
<td>WATER NETWORK FOR GROUND FLOOR</td>
<td>M0-M-004</td>
</tr>
<tr>
<td>05</td>
<td>RAIN WATER FOR ROOF FLOOR</td>
<td>M0-M-005</td>
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<thead>
<tr>
<th>NO.</th>
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<tbody>
<tr>
<td>06</td>
<td>WATER NETWORK FOR SITE LAYOUT</td>
<td>M0-M-006</td>
</tr>
<tr>
<td>07</td>
<td>DETAIL FOR WATER NETWORK</td>
<td>M0-M-007</td>
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<tr>
<td>08</td>
<td>WATER NETWORK FOR ROOF FLOOR</td>
<td>M0-M-008</td>
</tr>
<tr>
<td>09</td>
<td>GENERAL DETAILS (1/2)</td>
<td>M0-M-009</td>
</tr>
<tr>
<td>10</td>
<td>GENERAL DETAILS (2/2)</td>
<td>M0-M-010</td>
</tr>
</tbody>
</table>
SANITARY NETWORK FOR BASEMENT FLOOR

WOMEN TOILET

Scale 1:50

CONCRETE MANHOLE

D.L. = 48.18
L.L. = 42.35

CONCRETE MANHOLE

D.L. = 45.80
L.L. = 42.40

UPVC PIPE #6"
WATER NETWORK FOR BASEMENT FLOOR

WOMEN TOILET

SCALE 1:50
WATER NETWORK FOR GROUND FLOOR
RAIN WATER FOR ROOF FLOOR

GSP Ø3"

RD

1% 1%

1%

FD

RAIN WATER

SCALE 1:50

(G.S.P.) GALVANIZE STEEL PIPE

(FD) FLOOR DRAIN

FOR TENDER ONLY

CLIENT: PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER: PALESTINIAN NATIONAL AUTHORITY

PROJECT TITLE: CONSTRUCTION OF 150 MUSLIM SCHOOLS TO RE-BUILD THE DAMAGED MUSLIMS SCHOOLS IN THE WEST BANK

CONSULTANT: CENTER FOR ENGINEERING AND PLANNING

BUILDING NAME: THE MOSQUE

DRAWING TITLE: RAIN WATER FOR ROOF FLOOR

DRAWING NO.: MO-M-005

DATE: APRIL 2011
SCALE: 1:50
NOTES:

- All dimensions are in mm, except where otherwise shown.
- Complete details of all materials, dimensions, items, and connections shall be noted in the bill of materials and schedules.
- All work shall be done as per the specifications and drawings.
- The drawings are subject to interpretation of the contractor's interpretation.
- If any discrepancy exists among the drawings, the contractor must consult the drawing first.

COLD WATER

(MH) Water Meter

(CV) Check Valve

Collector for (CV)

WATER PUMP

(GSP) Gallonage Supply Pipe

(WP) Water Pump

FOR TENDER ONLY

CLIENT: PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER: UNDP (UNDESA) (PAMW)

PROJECT TITLE: CONSTRUCTION OF 130 MUNICIPALITIES IN PALESTINIAN NATIONAL AUTHORITY

CONSULTANT: CENTER FOR ENGINEERING PLANNING

BUILDING NAME: THE MOSQUE

DRAWING NO.: MO-M-007

DATE: APRIL 2011
SCALE: NOT DRAWN

DETAIL FOR WATER NETWORK

FROM THE MAIN DISTRIBUTION PIPE

STORAGE TANKS
7 x 1.5m³

NRV/CVØ2''

GVØ2''

WMØ2''

Q=50m³/hr, H=12m

WATER PUMP

TO ROOF FLOOR
WATER TANKS
TYPICAL DETAIL FOR WATER DISTRIBUTION CABINET

SCALE: N.T.S

TYPICAL PIPING IN SCREED AND FLOOR DRAIN CONNECTIONS
ELECTRICAL DRAWINGS
# LIST OF DRAWINGS

<table>
<thead>
<tr>
<th>S/NO.</th>
<th>DRAWING NAME</th>
<th>DRG. NO.</th>
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<tbody>
<tr>
<td>01/13</td>
<td>Legend</td>
<td>M0-K-001</td>
</tr>
<tr>
<td>02/13</td>
<td>Grounding System</td>
<td>M0-K-002</td>
</tr>
<tr>
<td>03/13</td>
<td>Electrical Site Arrangements</td>
<td>M0-K-003</td>
</tr>
<tr>
<td>04/13</td>
<td>Basement Floor Lightings Fittings Layout</td>
<td>M0-K-004</td>
</tr>
<tr>
<td>05/13</td>
<td>Basement Floor Power Fittings Layout</td>
<td>M0-K-005</td>
</tr>
<tr>
<td>06/13</td>
<td>Ground Floor Lightings Fittings Layout</td>
<td>M0-K-006</td>
</tr>
<tr>
<td>07/13</td>
<td>Ground Floor Power Fittings Layout</td>
<td>M0-K-007</td>
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<tr>
<td>08/13</td>
<td>Ground Floor Sound System Fittings Layout</td>
<td>M0-K-008</td>
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<tr>
<td>09/13</td>
<td>Mezzanine Floor Lightings Fittings Layout</td>
<td>M0-K-009</td>
</tr>
<tr>
<td>10/13</td>
<td>Mezzanine Floor Power Fittings Layout</td>
<td>M0-K-010</td>
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<tr>
<td>11/13</td>
<td>Mezzanine Floor Sound System Fittings Layout</td>
<td>M0-K-011</td>
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<tr>
<td>12/13</td>
<td>Roof Floor Lightings Fittings Layout</td>
<td>M0-K-012</td>
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<tr>
<td>13/13</td>
<td>Mom &amp; Sub-meter Boards Single Line Power System</td>
<td>M0-K-013</td>
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### Legend

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Symbol" /></td>
<td>16A SINGLE PHASE, 3-PIN SOCKET OUTLET</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbol" /></td>
<td>DITTO BUT DUPLEX SOCKET OUTLET</td>
</tr>
<tr>
<td><img src="image3.png" alt="Symbol" /></td>
<td>DITTO BUT DUPLEX SOCKET OUTLET, WATER PROOF IP65</td>
</tr>
<tr>
<td><img src="image4.png" alt="Symbol" /></td>
<td>SUB-DISTRIBUTION BOARD</td>
</tr>
<tr>
<td><img src="image5.png" alt="Symbol" /></td>
<td>MAIN DISTRIBUTION BOARD (MDB)</td>
</tr>
<tr>
<td><img src="image6.png" alt="Symbol" /></td>
<td>WALL OR WINDOW MOUNTED EXHAUST FAN</td>
</tr>
<tr>
<td><img src="image7.png" alt="Symbol" /></td>
<td>RJ11 TELEPHONE SOCKET OUTLET</td>
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<tr>
<td><img src="image8.png" alt="Symbol" /></td>
<td>WALL MOUNTED LOUD SPEAKER</td>
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<tr>
<td><img src="image9.png" alt="Symbol" /></td>
<td>AMPHIBISER SYSTEM MULTI-IN &amp; MULTI-OUT PORTS</td>
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<tr>
<td><img src="image10.png" alt="Symbol" /></td>
<td>MICROPHONE SOCKET OUTLET</td>
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<tr>
<td><img src="image11.png" alt="Symbol" /></td>
<td>2x35W SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE WITH OUT REFLECTOR IP20</td>
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<td><img src="image12.png" alt="Symbol" /></td>
<td>2x35W SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE WATER PROOF IP65</td>
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<tr>
<td><img src="image13.png" alt="Symbol" /></td>
<td>CHANDELIER WITH CRYSTAL BLADES, CEILING MOUNTED</td>
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### Description

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<tr>
<td><img src="image14.png" alt="Symbol" /></td>
<td>26W COMPACT FLUORESCENT SURFACE MOUNTED LIGHT (IP45)</td>
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<td><img src="image15.png" alt="Symbol" /></td>
<td>DITTO BUT WALL MOUNTED</td>
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<tr>
<td><img src="image16.png" alt="Symbol" /></td>
<td>EXTERNAL PROJECTOR LIGHTING UNIT HPS 250W</td>
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<td><img src="image17.png" alt="Symbol" /></td>
<td>1X8W EMERGENCY LIGHTING UNIT WITH SHPS BACK UP BATTERY</td>
</tr>
<tr>
<td><img src="image18.png" alt="Symbol" /></td>
<td>1-GANG LIGHTING SWITCH, ONE WAY 16A</td>
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<tr>
<td><img src="image19.png" alt="Symbol" /></td>
<td>DITTO BUT WATER PROOF IP 65</td>
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<td><img src="image20.png" alt="Symbol" /></td>
<td>2-GANG LIGHTING SWITCH, ONE WAY 16A</td>
</tr>
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<td><img src="image21.png" alt="Symbol" /></td>
<td>DITTO BUT WATER PROOF IP 65</td>
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<tr>
<td><img src="image22.png" alt="Symbol" /></td>
<td>3-GANG LIGHTING SWITCH, ONE WAY 16A</td>
</tr>
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<td><img src="image23.png" alt="Symbol" /></td>
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<td><img src="image24.png" alt="Symbol" /></td>
<td>2-WAY LIGHTING SWITCH, 16A</td>
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<td><img src="image25.png" alt="Symbol" /></td>
<td>DITTO BUT WATER PROOF IP 65</td>
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<tr>
<td><img src="image26.png" alt="Symbol" /></td>
<td>PUSHBUTTON LIGHTING SWITCH, ONE WAY 10A</td>
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<td><img src="image27.png" alt="Symbol" /></td>
<td>ELECTRICAL FAN SWITCH</td>
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<td><img src="image28.png" alt="Symbol" /></td>
<td>WALL MOUNTED ELECTRICAL FAN 100W</td>
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<tr>
<td><img src="image29.png" alt="Symbol" /></td>
<td>CEILING MOUNTED ELECTRICAL FAN 80W</td>
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</tbody>
</table>
35x3mm GALVANIZED STEEL SHEET WELDED TO GROUND BEAM REINFORCEMENT STEEL (WELDING POINT EACH 1.5 METER)

INSPECTION POINT
(1x50)mm2 Cu
Earthing Pit

5 TON CONCRETE COVER

CONCRETE WALL
COPPER ELECTRODE
92 PVC SLEEVE

FINISHED GRADE

U - BOLTED TYPE CONNECTOR SEE DETAIL BELOW
92 PVC SLEEVE

GROUND BARE COPPER CONDUCTOR 50 MM2

GRASS SURFACE

CONCRETE SURFACE

VIRGIN SOIL

GRAVEL FILLING

NOTE: ALL DIM. ARE IN mm
Ground Floor
Power Fittings Layout

MO-E-007

Scale 1:100