Emergency School Reconstruction Project

TYPE DESIGN:
1 Combine Medium Toilet Block for Male & Female
Tc(M)
# 1COMBINE MEDIUM TOILET BLOCK FOR MALE AND FEMALE

**Tc(M)**

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<th>CONTENTS</th>
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<th>SHEET NO.</th>
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</thead>
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<td>P-02</td>
</tr>
</tbody>
</table>
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawings are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

NOTES:

1 M 2M 3M 4M 5M

1:100

3. Read this drawing along with other related drawings and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
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2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer doors & window schedule/seal/locations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

WALL SECTION AT X-X
(Scale: 1:40)

TYPICAL RAMP SECTION
(Scale: 1:40)
NOTES:
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GROUND FLOOR PLAN
(Scale: 1:50)

1. Combine Medium Toilet Block
   FOR MALE & FEMALE
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6. The location of ramps to be adjusted as per site condition.

FALSE CEILING PLAN
(Scaler 1:50)

NOTES:
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4. Refer doors & windows schedule/levitations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

FALSE CEILING PLAN
(Scaler 1:50)
1. Use M20 (1.5% grade concrete for slab, beam, column, foundation, sill, and lintel, bars: all ACC works)
2. Use Fe600 grade steel (350mm²/m²) for strips Fe415 7mm²
3. Clear cover to bars
   a. For concrete members in contact with soil = Min 60mm
   b. For longitudinal (vertical) bar in column = 40mm
   c. For main bars in beams > 20mm
   d. For outer bars in slab > 20mm
4. Bars in columns shall be spliced only at mid-height of column
   as per ductile detailing R1200-2014
5. Bars splicing in beam shall be avoided in the span where
   intercolumnar beam is connected and shall be shown as SW..<br>NOTE:

1. Mr. H.B. Gurung
2. Mr. A.S. Tamang
3. Mr. S. Malla
3. Read this drawing along with other related drawings.
2. Drawing are not to be directly measured.
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

FOOTING TABLE

<table>
<thead>
<tr>
<th>S.N.</th>
<th>FOOTING</th>
<th>LENGTH</th>
<th>BREADTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F1</td>
<td>1000</td>
<td>1000</td>
<td>350</td>
</tr>
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</table>

TRENCH PLAN

(Scale= 1:100)

PLINTH BEAM TIE SECTION DETAIL AT -4

(Scale= 1:20)

PLINTH BEAM TIE SECTION DETAIL AT -5

(Scale= 1:20)

WALL FOUNDATION DETAIL SECTION AT -6

(Scale= 1:20)

FOOTING DESIGN FOR Tc(M)

<table>
<thead>
<tr>
<th>Soil Bearing Capacity (kN/m²)</th>
<th>Grid</th>
<th>Foundation Size L x B (mm)</th>
<th>Thickness (mm)</th>
<th>Reinforcement (mm) Per m2 (AS)</th>
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<tbody>
<tr>
<td>Above 180</td>
<td>A1, B1, A2, B2, A3, B3</td>
<td>1000 x 1000</td>
<td>350</td>
<td>120 - 150 c/c</td>
</tr>
<tr>
<td>101-180 kN/m²</td>
<td>A1, B1, A2, B2, A3, B3</td>
<td>1000 x 1000</td>
<td>350</td>
<td>120 - 150 c/c</td>
</tr>
<tr>
<td>50-100 kN/m²</td>
<td>A1, B1, A2, B2, A3, B3</td>
<td>1200 x 1200</td>
<td>350</td>
<td>120 - 150 c/c</td>
</tr>
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</table>

Sheet Title: TRENCH PLAN, TIE BEAM DETAIL & WALL FOUNDATION DETAIL

Date: September 2016

Print Sheet: A3 Size

S-01
1. Any discrepancy in the drawing is to be immediately reported to the consultant or concerned engineer.
2. Drawings are not to be directly measured.
3. Refer this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Rerfer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

NOTES:

- 300mm THICK STONE WALL IN CEMENT MORTAR (1:4)
- 800mm THICK DAMP PROOFING
- 200mm HEIGHT SKIRTING
- PLINTH LEVEL
- 3-NOS. 12mm@ (T/O)
- FOUNDATION BEAM TIE (250x300)
- 2-NOS. 12mm@ (T/O)
- HARDS CEMENT CONCRETE FLOORING
- 3-NOS. 12mm@ (T/O)
- FOUNDATION BEAM TIE (250x300)
- 1-NOS. 12mm@ (T/O)
- WALL FOUNDATION DETAIL SECTION AT -1
- onSuccess
- PLINTH BEAM TIE SECTION
- DETAIL AT -2
- 1:20
- 1 COMBINE MEDIUM TOILET BLOCK FOR MALE AND FEMALE
- WALL FOUNDATION DETAIL SECTION AT -3

Sheet Title: FOOTING PLAN & SECTION, TIE BEAM DETAIL & WALL FOUNDATION DETAIL
Sheet No. Tc(M)
Date: September, 2016
Print Sheet: A’3’ Size
1. Any discrepancy in the drawing is to be immediately reported to the consultant concerned engineer.
2. Drawing are not to be directly measured.
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5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

**NOTES:**
- Date: September 2016
- Sub-Consultant: Joint Venture with
- Donor: ORIENTAL CONSULTANTS Global Consulting for sustainable Development
- Project Title: Emergency School Reconstruction Project
- Sheet Title: COLUMN PLAN & DETAILS, SILL & LINTEL DETAILS
- Sheet No: Tc(M)

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**COLUMN REINFORCEMENT DETAILS**

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<th>GRID-2</th>
<th>GRID-3</th>
<th>STIRRUPS</th>
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<tbody>
<tr>
<td>1</td>
<td>A, B &amp; C</td>
<td>6 NOS. 12mmØ</td>
<td>6 NOS. 12mmØ</td>
<td>6 NOS. 12mmØ</td>
<td>8@100mm/c &amp; 150mm/c</td>
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</tbody>
</table>
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5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

NOTES:

S-04
Date: September, 2016
Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla
Sub-Consultant:
Joint Venture with

Project Title:
Emergency School Reconstruction Project

Donor:
Japan International Cooperation Agency

Oriental Consultants Global Consulting for Sustainable Development

Type Design:

Sheet Title:
BEAM PLAN & DETAILS

Sheet No.

Print Sheet: A'3' Size

Government Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal

Central Level Project Coordinating Unit

Sanothimi, Bhaktapur, Nepal

Sub-Consultant:
Mr. Tomoki Miyano
Mr. Hisafumi Michikawa
Mr. Wong Kui Hung

Donor:
ORIENTAL
CONSULTANTS GLOBAL
Consulting for Sustainable Development

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Type Design:

Sheet Title:
BEAM PLAN & DETAILS

S-04
Date: September, 2016
Print Sheet: A'3' Size

Mr. M. Tamang
Mr. A.S. Tamang
Mr. S. Malla

Type Design:

Sheet Title:
BEAM PLAN & DETAILS

Sheet No.

Print Sheet: A'3' Size

Mr. M. Tamang
Mr. A.S. Tamang
Mr. S. Malla

Type Design:

Sheet Title:
BEAM PLAN & DETAILS

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Print Sheet: A'3' Size

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Mr. S. Malla

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Mr. A.S. Tamang
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Mr. M. Tamang
Mr. A.S. Tamang
Mr. S. Malla

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NOTES:

Sanothimi, Bhaktapur, Nepal
Emergency School Reconstruction Project

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant:
Global Consulting for sustainable Development

Donor:
Orient Consultants

Type Design:

Print Sheet: A3 Size

Date: September 2016

Sheet Title: TRUS Details

Sheet No. S-06
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NOTES:

Date: September, 2016

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant:

Joint Venture with

Project Title:
Emergency School Reconstruction Project

Government Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal

Japan International Cooperation Agency

Donor:

ORIENTAL CONSULTANTS GLOBAL
Global Consulting for Sustainable Development

Type Design:

1 COMBINE MEDIUM TOILET BLOCK FOR MALE AND FEMALE

Sheet Title:
WATER TROUGH DETAILS
Sheet No.:

Print Sheet: A3' Size

S-07
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
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6. The location of ramps to be adjusted as per site condition.

NOTES:

LIGHT POWER & DB LAYOUT PLAN
(GROUND FLOOR)
(Scale=1:100)

LEGEND

<table>
<thead>
<tr>
<th>EN</th>
<th>SYMBOL</th>
<th>INDICATES</th>
<th>MOUNTING HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ESW CS, Down Light</td>
<td>Attached to Ceiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BM, CS, Recess Light</td>
<td>Attached to Ceiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>T/CAB, T/Light, Mirror</td>
<td>Above Mirror</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ESW Down Light</td>
<td>Attached to MR Frames, above 2.2m Board</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>One Way Switch</td>
<td>1.2m above Finished Floor Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ESW LED Recess Light</td>
<td>Attached to Wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Single Pole MCC</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Double Pole MCC</td>
<td>-</td>
<td></td>
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<tr>
<td>9</td>
<td>Three Pole MCC</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>NEA Main</td>
<td>2.6 m above Ground Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>MCC Enclosure Box</td>
<td>2.5 m above Ground Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Main Panel Board</td>
<td>2.5 m above Ground Level</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. COMBINE MEDIUM TOILET BLOCK
LIGHT, POWER AND DB
LAYOUT PLAN
(GROUND FLOOR)

Date: September, 2016
Print Sheet: A'3' Size

Sheet No. Tc(M)

Oriental Consultants
Global Consulting for Sustainable Development

Government Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal

Mokhlarchi & Associates, Inc.

Mr. Tomoki Miyano
Mr. Hisafumi Michikawa
Mr. Wong Kuok Hung
Mr. A.K. Dhungana

Type Design: Emergency School Reconstruction Project

Joint Venture with
Japan International Cooperation Agency
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6. The location of ramps to be adjusted as per site condition.

NOTES:

1. Provide threshold at all exterior doors as per details, unless otherwise indicated.

LEGEND FOR SANITARY DRAWINGS:

- WC - WATER SanITATION CLOSET
- MHT - MATTRESS HINGED TOILET
- STRAIGHT LINE - WATER SUPPLY PIPELINE
- DRAINT LINE - DRAINAGE PIPELINE
- TAN - TANK
- SMOKE EXHAUST CHIMNEY
- THRESHOLD - THRESHOLD
- INTEGRAL - INTEGRAL BLINDPLEDE

SOIL & WASTE WATER PIPELINE LAYOUT

(GROUND FLOOR PLAN)

(Scaler: 1:75)

WATER SUPPLY PIPELINE LAYOUT

(GROUND FLOOR PLAN)

(Scaler: 1:75)

Sheet Title: COMBINE MEDIUM TOILET BLOCK

Print Sheet: A'3' Size

Date: September, 2016

Print Sheet: A'3' Size

Sheet No: P-01

Oriental Consultants

Global Consulting for sustainable Development

Donor: Japan International Cooperation Agency

Project Title: Emergency School Reconstruction Project

Joint Venture with

MOMA ARCHITECT & ASSOCIATES, INC.

East Consultants

Mr. Tomoki Miyano

Mr. R.K. Karkee

Mr. A.S. Tamang

Mr. H.K. Karki

Type Design: 1 COMBINE MEDIUM TOILET BLOCK FOR MALE & FEMALE

SOIL & WASTE WATER & WATER SUPPLY PIPELINE LAYOUT PLAN (MALE & FEMALE)
WATER SUPPLY PIPELINE LAYOUT
(MALE & FEMALE)

(ROOF PLAN)
(Scale: 1:75)

WATER SUPPLY PIPELINE SECTIONAL DIAGRAM
(MALE & FEMALE)
(Scale: 1:75)