Emergency School Reconstruction Project

TYPE DESIGN:
2 Storey 6 Small Classroom
2-6C(S)
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## ARCHITECTURAL DRAWINGS

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## ELECTRICAL DRAWINGS

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NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or consultant 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 service drawings.
4. Refer to shop & estimate schedules/indications for sizes of doors & windows.
5. Provide fitters at all interior doors as per details; unless otherwise indicated.
6. The location of lamps to be adjusted as per site conditions.
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
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 dopes & schedules for materials & dimensions for site of doors & windows.
5. Provide notations at all interior doors as per details.
6. The location of lamps to be adjusted as per site conditions.

FIRST FLOOR PLAN
Area = 195.45 Sq. M. (Scale 1:100)
NOTES

1. Any discrepancy in the drawing is to be immediately reported to the consultant or construction engineer.
2. Drawings are not to be directly measured.
3. Read the drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other service drawings.
4. Refer to doors & windows schedules / elevations for size of doors & windows.
5. Provide provision at all interior doors as per details, where chamber included.
6. The location of lamps is to be adjusted as per site conditions.
GENERAL NOTE:

1. USE MS 1.5 Grade concrete for slab, beam, column, and foundation (all RCC works)
2. USE F600 Grade Steel (3200kg/m^3) for slabs
3. CLEAR COVER TO BARS
   a. For concrete members in contact with soil, 1.5 mm to 50 mm
   b. For longitudinal (vertical) bars in column, 40 mm
   c. For main bars in beams, 20 mm
   d. For outer bars in slab, 20 mm
4. BARS IN COLUMN SHALL BE SPACED ONLY AT MID-HEIGHT OF COLUMN AS PER DUCT DETAILING IS 13320-2014
5. BARS SPACING IN Slab SHALL BE AVOIDED AT THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DIAL
6. DEVELOPMENT LAP LENGTH (Ld.) FOR BARS

7. TEMPERATURE DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 60 @ 150 C
8. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS = 22 mm
9. PROVIDE SHEAR REINFORCEMENT AT 100 mm AT LAP LOCATIONS
10. H = CLEAR SPAN OF FLOOR
11. L = CLEAR SPAN OF BEAM
12. H = CLEAR SPAN OF BEAM
13. STRUCTURAL STEEL SHALL HAVE STRENGTH Fy = 350 Mpa
14. FOUNDATION TYPE SHOULD BE DECIDED BY SITE CONDITION AFTER EXCAVATION OF FOUNDATION
15. IF BEARING CAPACITY LESS THAN 30 K N/m² FOUNDATION SHOULD BE REDESIGNED
16. PROVIDE 2-16mm TORSION BARS IN 0.025m DEEP BEAM

TYPICAL LAP LOCATION FOR BEAM BARS

TYPICAL BENT-UP DETAIL FOR SLAB BARS

TYPICAL LAP DETAIL

NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Pour RCC along with other related drawings and coordinate with Structural, Electrical Plumbing, and other service drawings.
4. Verify dimensions and show elevations for site of all elevations & windows.
5. Provide transom at all interior doors as per details, unless otherwise indicated.
COLUMN FOOTING PLAN - F1

COLUMN FOOTING PLAN - F2

COLUMN FOOTING SECTION - F1

COLUMN FOOTING SECTION - F2

NOTES:
1. Any discrepancy in the drawing is to be immediately reported to the consultant or the principal 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. Refer copy & windows schedule of builts for size of doors & windows.
5. Provide ventilation at all exterior doors as per details, unless otherwise indicated.

Sheet Title: FOOTING PLAN & SECTION
Sheet No.: 2-6C
Date: September, 2016
Print Sheet: 1/2 Size
S-02
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing 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. Refer cad ≥ & windows schedule for sizes at other columns & windows.
5. Provide provision at all interior doors as per details, unless otherwise indicated.

COLUMN FOOTING PLAN - F3
(Scale 1:20)

COLUMN FOOTING PLAN - F4
(Scale 1:20)

COLUMN FOOTING SECTION - F3
(Scale 1:20)

COLUMN FOOTING SECTION - F4
(Scale 1:20)
## COLUMN REINFORCEMENT DETAILS AT GRID -1

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>GRID</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>STIRRUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FIRST FLOOR</td>
<td>6 N10@10mmØ</td>
<td>6 N10@10mmØ</td>
<td>6 N10@10mmØ</td>
<td>6 N10@10mmØ</td>
<td>6 N10@10mmØ</td>
</tr>
<tr>
<td>2</td>
<td>GROUND FLOOR</td>
<td>12 N10@10mmØ</td>
<td>12 N10@10mmØ</td>
<td>12 N10@10mmØ</td>
<td>12 N10@10mmØ</td>
<td>12 N10@10mmØ</td>
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### COLUMN REINFORCEMENT DETAILS AT GRID -2

<table>
<thead>
<tr>
<th>S. NO.</th>
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<th>COLUMN SIZE (450 x 450)</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>COLUMN SIZE (450 x 450)</th>
<th>STIRRUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FIRST FLOOR</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>60@100mmoc &amp; 150mmoc</td>
</tr>
<tr>
<td>2</td>
<td>GROUND FLOOR</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>12 NOS. - 16mmØ</td>
<td>60@100mmoc &amp; 150mmoc</td>
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### ELEVATION OF WALL WITH LINTEL & SILL BAND

(Scale= 1:75)

### X-SECTION OF SILL BAND AT B-B

(STONE MASONRY)

(Scale= 1:25)

### COLUMN LINTELS SILL JOINT DETAIL

(Scale= 1:25)

### NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or authorized engineer.
2. Drawing are not to be directly measured.
3. Reset file drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
5. Provide material at all exterior doors as per details, unless otherwise indicated.

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**Government Of Nepal**
Department Of Education
Secondary Education

Donor: Japan International Cooperation Agency

Project Title: Emergency School Reconstruction Project

**ORIENTAL CONSULTANTS GLOBAL**

(With) MNR Architect & Associates, INC.

Sub-Consultant: East West Engineering Service Pvt. Ltd.

Date: September, 2016

Print Sheet: A3 Size
PLINTH BEAM TIE DETAIL ALONG GRID AT -1 & 2
(Scale = 1:50)

PLINTH LEVEL

SECTION -1-1
(Scale = 1:25)

SECTION -2-2
(Scale = 1:25)

PLINTH BEAM TIE DETAIL ALONG GRID AT -A, C, D & E
(Scale = 1:50)

NOTES:
1. Any discrepancies in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing 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. Refer Appendix B which gives schedule of materials for all columns & windows
5. Provide schedule at all exterior doors as per details, unless otherwise indicated.
NOTES:
1. Any discrepancy in the drawing shall 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 service drawings.
4. Refer cost & schedule in tender documents for items of works & windows.
5. Provide模板 at all exterior doors as per details, unless otherwise indicated.

Government Of Nepal
Department Of Education
Sarangti Bazaar, Nepal

Donor:
Japan International Cooperation Agency

Project Title:
Emergency School Reconstruction Project

CONSULTANTS GLOBAL

Sheet Title:
BEAM DETAILS

Sheet No:
2-6C (S)

Date:
September, 2016

Print Sheet: 1/2 Size