



Save the Children

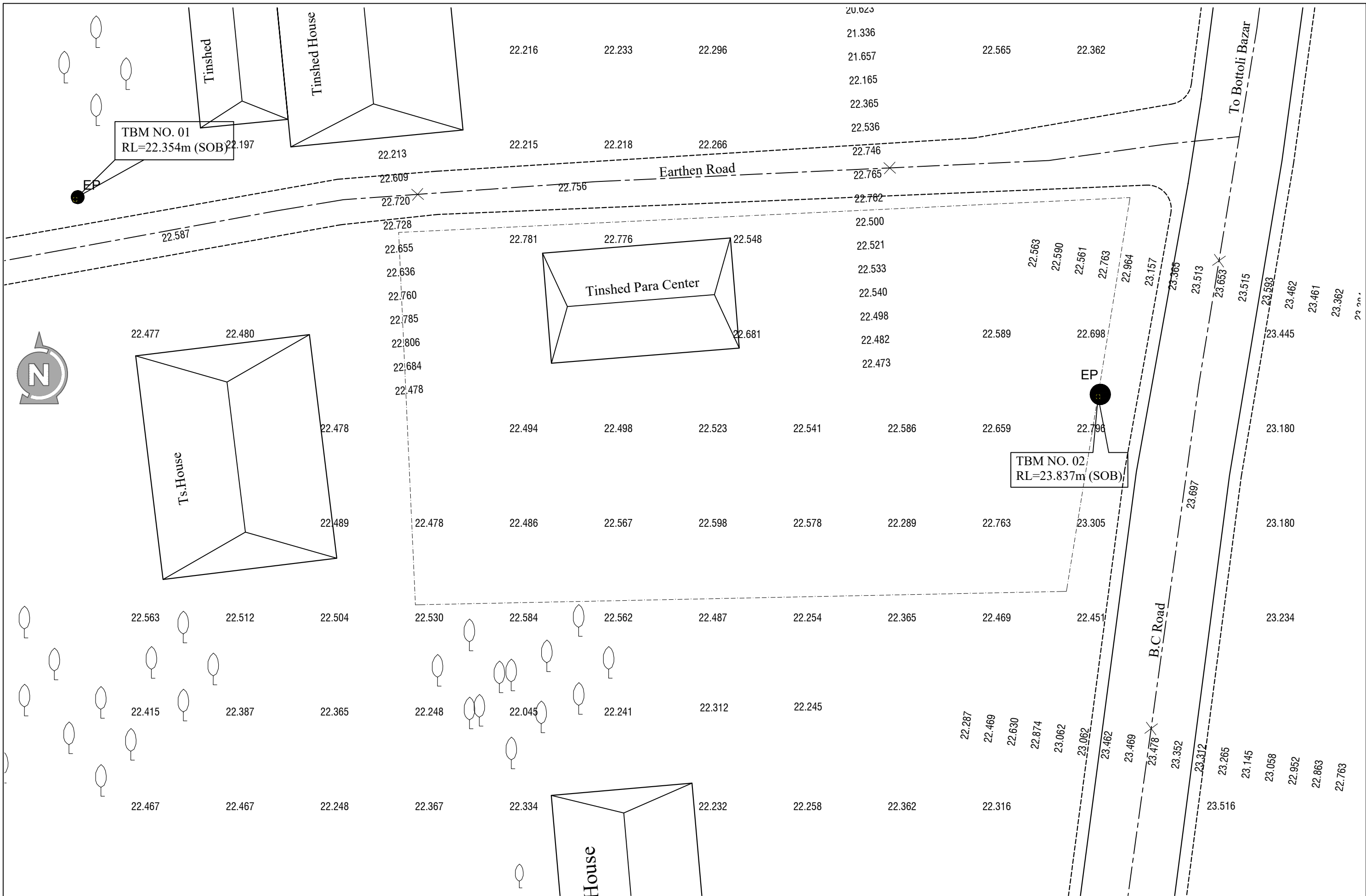
Multipurpose Disaster Shelter Support (MPDS) Project




GENERAL DESIGN & DRAWINGS FOR

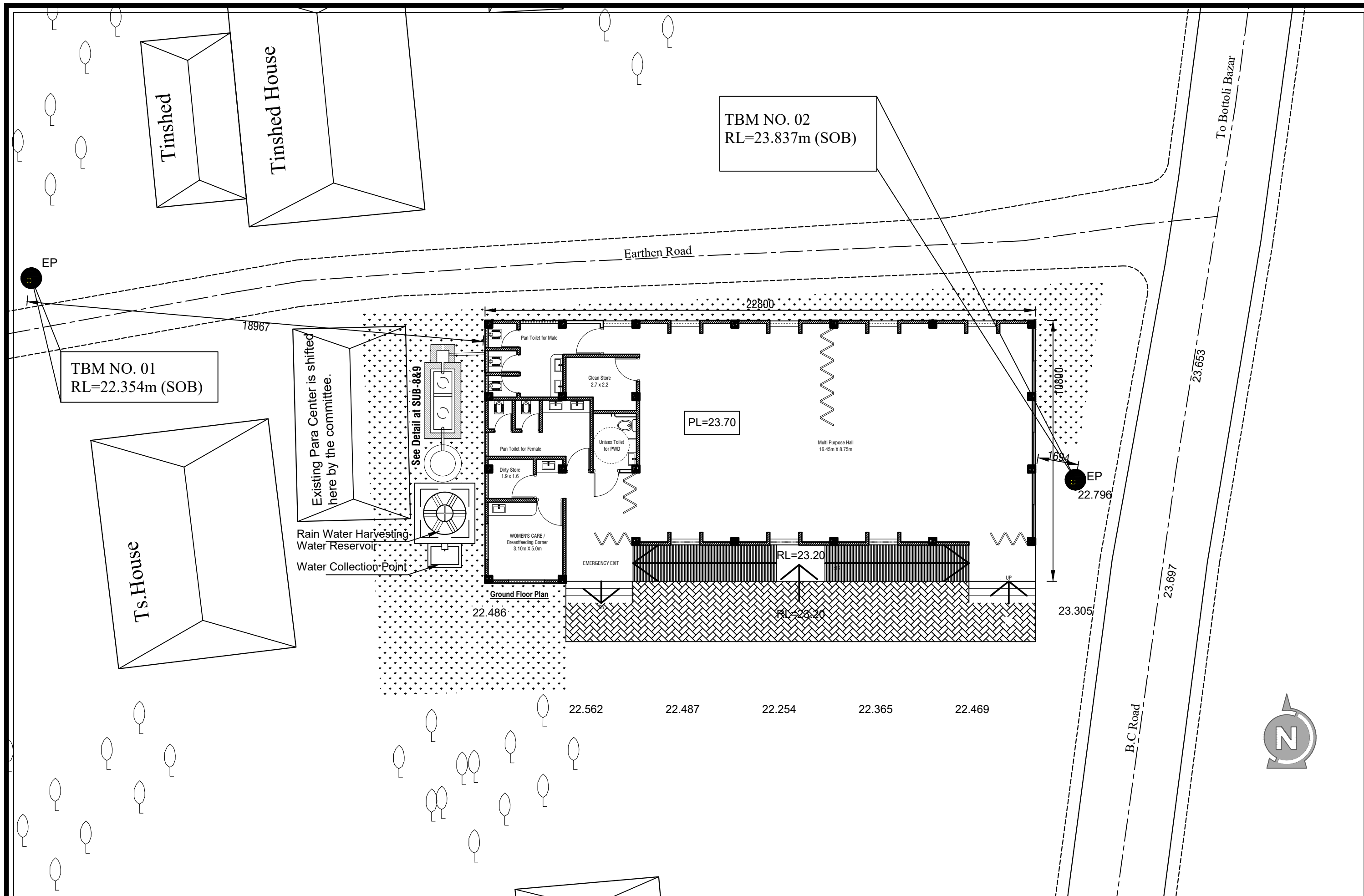
CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT REJU NOTUNPARA PARAKENDRO UNDER
SONAICHHARI UNION, UPAZILA: NAIKHONGCHHARI, DISTRICT: BANDARBAN




Issued for Tender

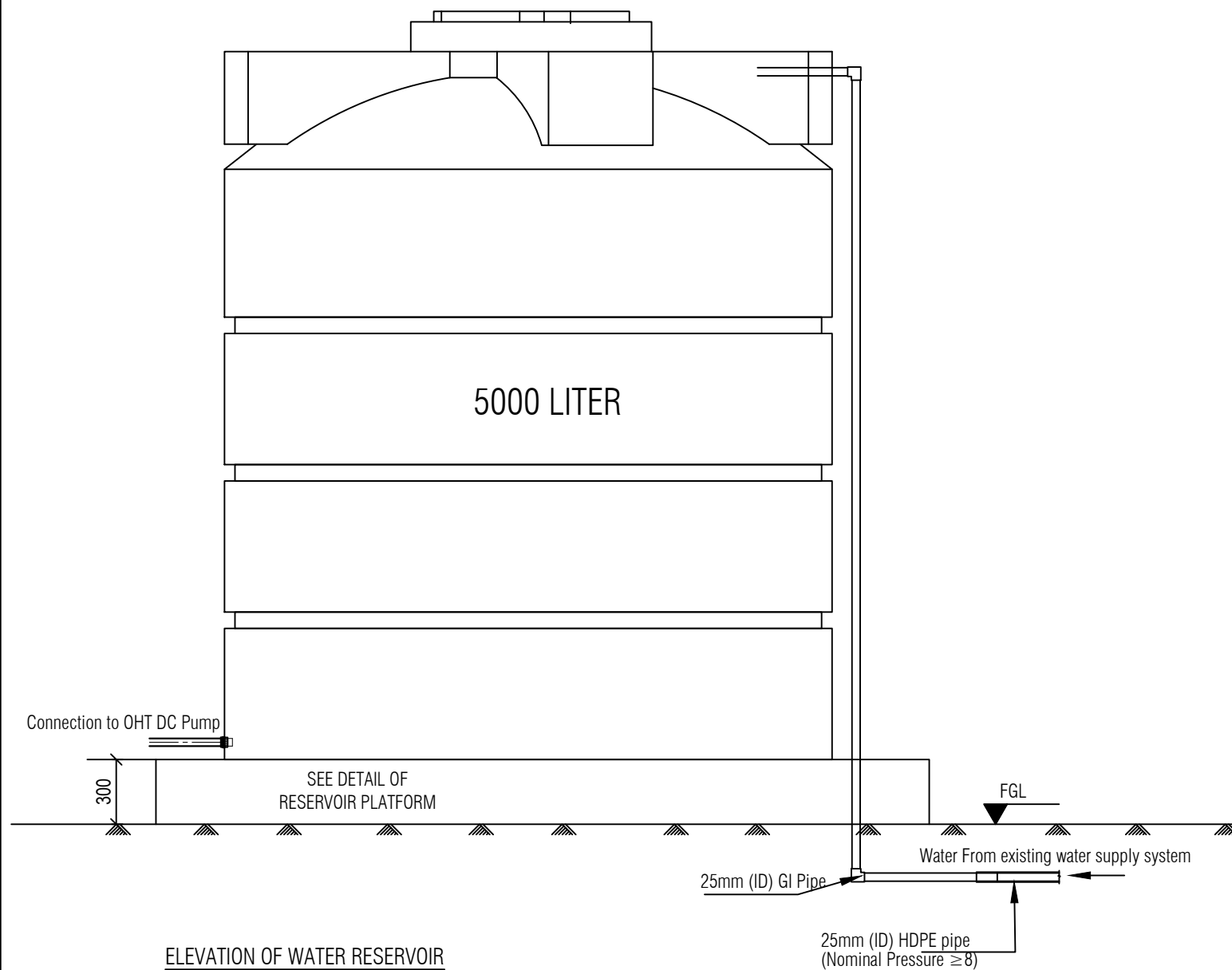
| Table of Content | | | |
|------------------|---|-----------|--------------|
| SL | Drawing Title | Sheet No. | Revision No. |
| 01 | INDEX | GEN-00 | |
| 02 | TOPOGRAPHIC SURVEY | GEN-01 | |
| 03 | SITE LAYOUT PLAN | GEN-02 | |
| 04 | WATER RESERVOIR PLATFORM, WATER COLLECTION POINT & PRE-CAST SLAB DETAIL | GEN-03 | |
| 05 | DETAILS OF RING WELL WITH HAND PUMP | GEN-04 | |



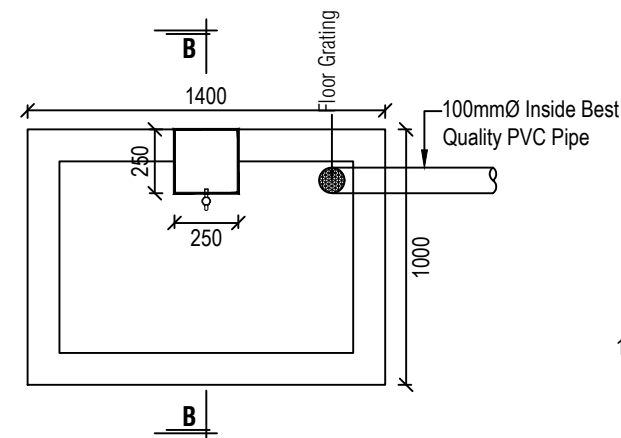
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|---|--|---|--|---|--|
| <div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div> | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | <div>TOPOGRAPHIC SURVEY</div> <div>All Dimension are in Millimeter unless mentioned</div> | <div>GEN-01</div> <div>SCALE</div> <div>AS SHOWN</div> |



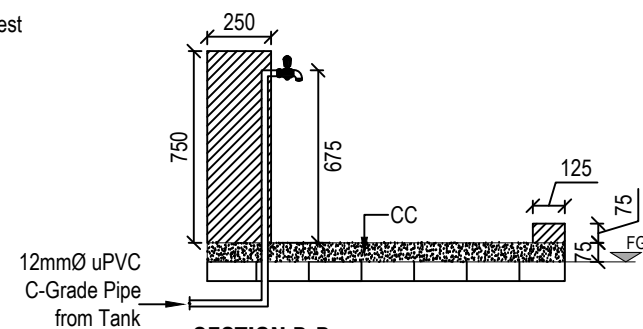
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|---|--|---|---|---|---|
| <div></div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | SITE LAYOUT PLAN All Dimension are in Millimeter unless mentioned | GEN-02 SCALE AS SHOWN |



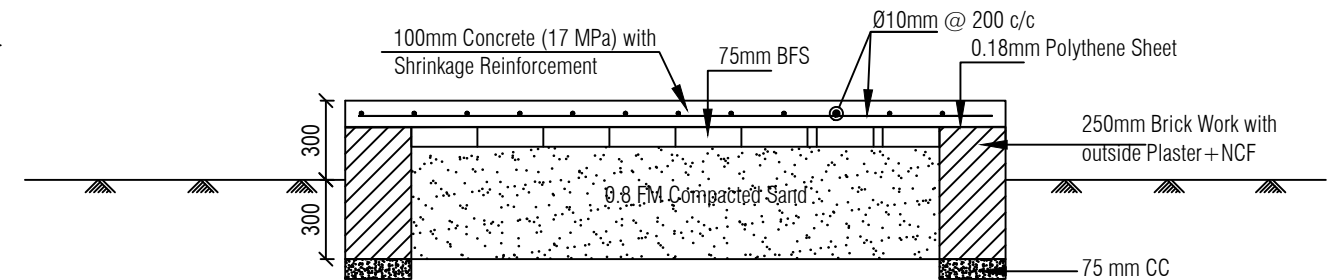
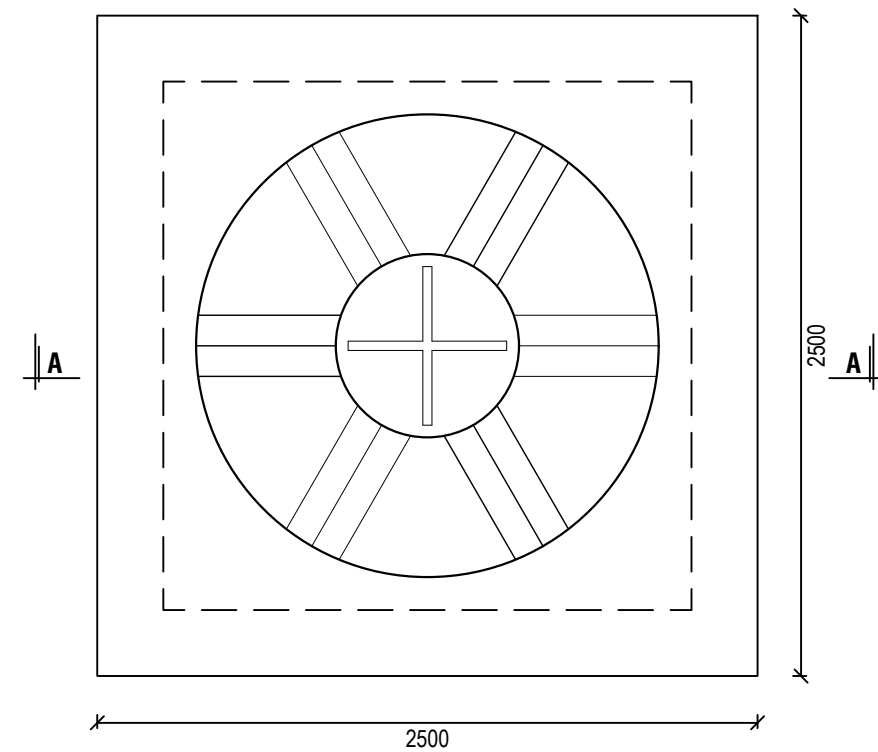
ELEVATION OF WATER RESERVOIR



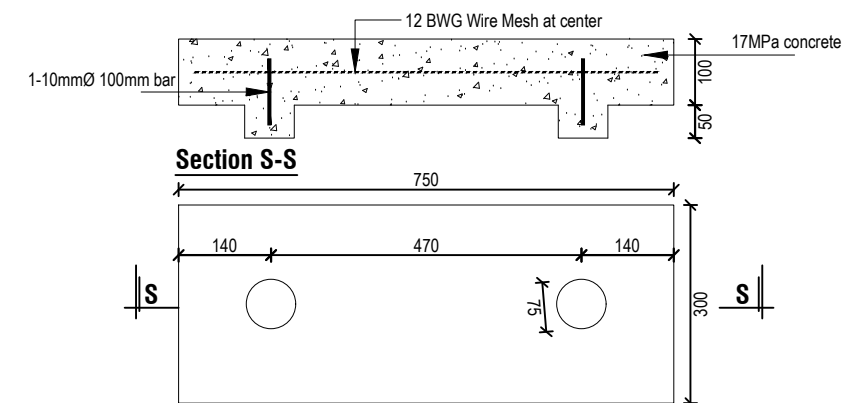
PLAN OF WATER COLLECTION POINT



SECTION B-B

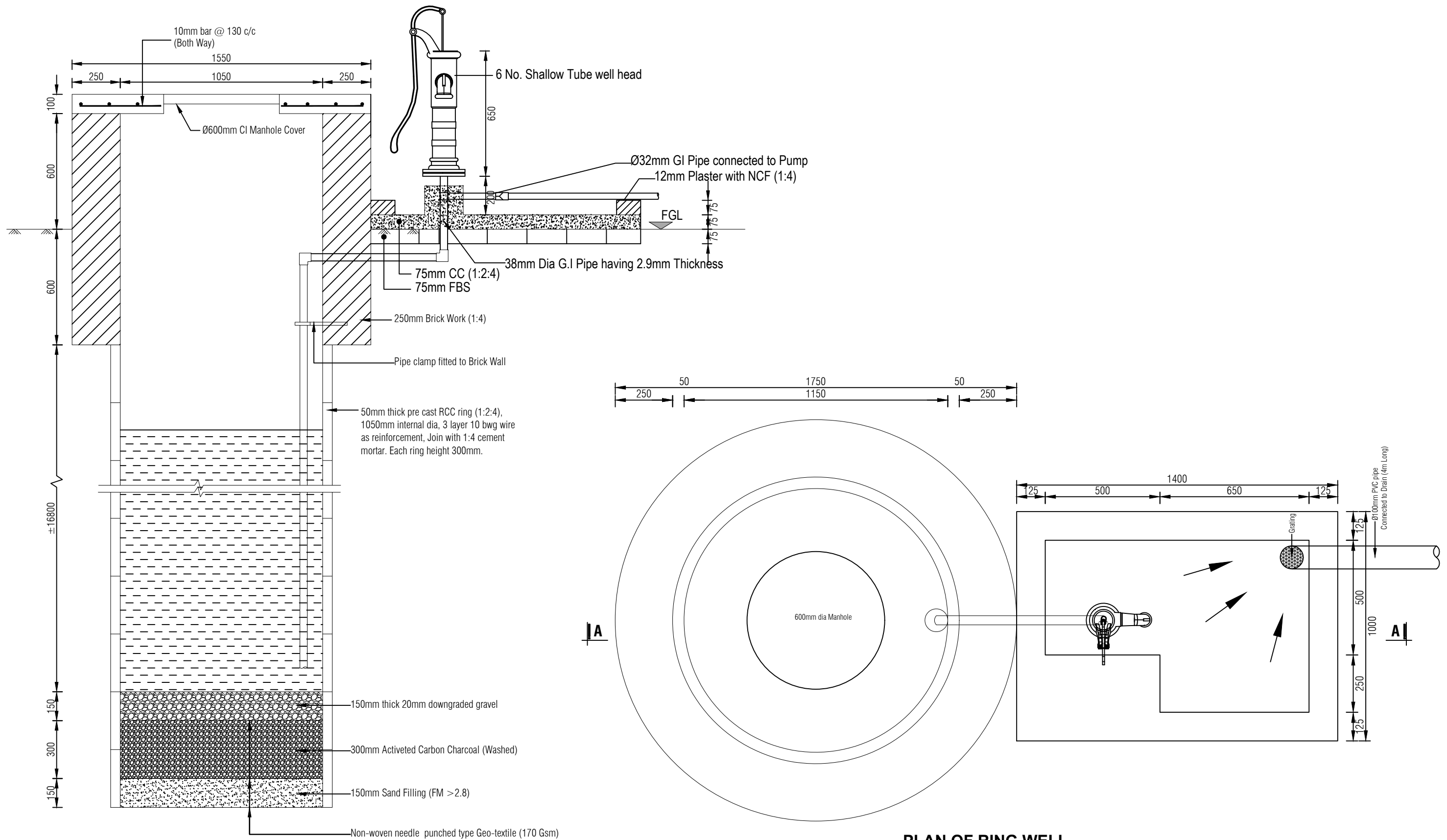


Section A-A






Plan of Pre cast Slab for Step to Para

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|--|---|--|--|---|--|
| <p>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</p> | <p>Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban</p> <p>FUNDED BY: USAID</p> | <p>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</p> <p>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</p> | <p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p> | <p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p> | <p>Package No: SCI/MPDS/B11-23-01</p> <p>Revision No:</p> <p>Issued for Tender</p> | <p>Water Reservoir Platform, Water collection Point & Pre-Cast Slab Detail</p> <p>All Dimension are in Millimeter unless mentioned</p> | <p>GEN-03</p> <p>SCALE</p> <p>AS SHOWN</p> |



**SECTION OF RING WELL
with Hand Pump**

**PLAN OF RING WELL
with Hand Pump**

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|---|--|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DETAILS OF RING WELL WITH HAND PUMP All Dimension are in Millimeter unless mentioned | GEN-04 SCALE AS SHOWN |



Save the Children

Multipurpose Disaster Shelter Support (MPDS) Project

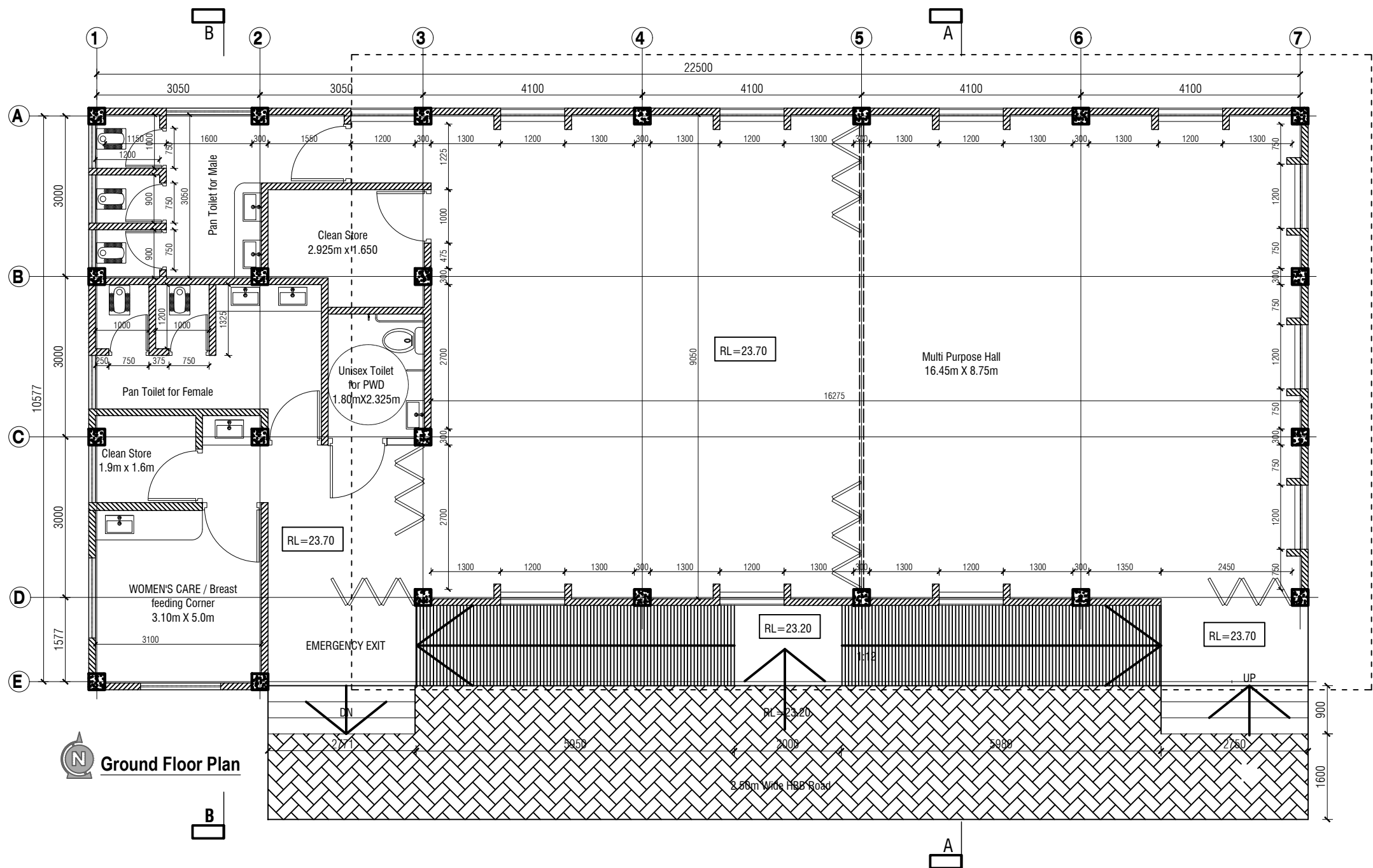
ARCHITECTURAL DESIGN & DRAWINGS

FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT REJU NOTUNPARA PARAKENDRO UNDER
SHONAICHHARI UNION, UPAZILA: NAIKHONGCHHARI, DISTRICT: BANDARBAN

Issued for Tender

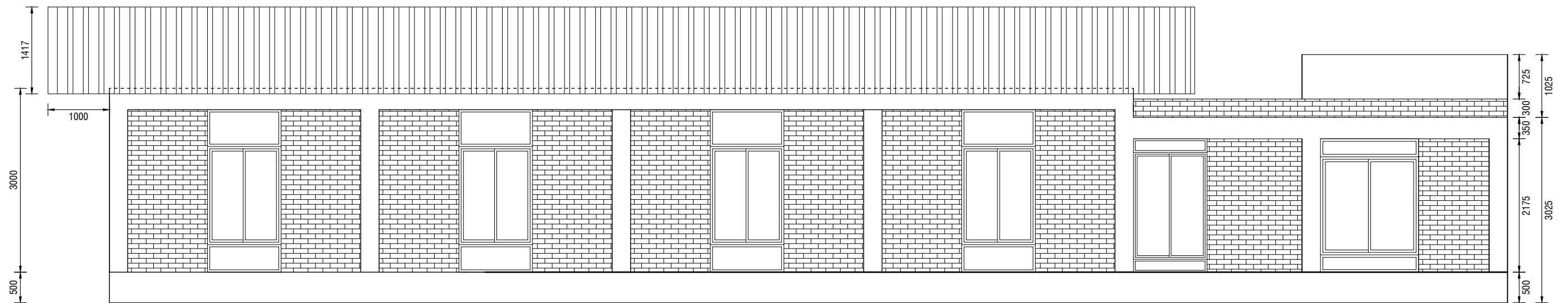
| Table of Content | | | |
|------------------|------------------------------------|-----------|--------------|
| SL | Drawing Title | Sheet No. | Revision No. |
| 01 | INDEX | 00 | |
| 02 | GROUND FLOOR PLAN | A-01 | |
| 03 | ROOF PLAN | A-02 | |
| 04 | FRONT & BACK ELEVATION | A-03 | |
| 05 | LEFT & RIGHT ELEVATION | A-04 | |
| 06 | SECTION A-A | A-05 | |
| 07 | FALSE CEILING PLAN | A-06 | |
| 08 | DOOR SCHEDULE & RAILING DETAILS | A-07 | |
| 09 | GROUND FLOOR PLAN WITH DOOR MARK | A-08 | |
| 10 | WINDOW SCHEDULE | A-09 | |
| 11 | GROUND FLOOR PLAN WITH WINDOW MARK | A-10 | |
| 12 | FOLDING DOOR DETAIL | A-11 | |



| | | | | | | | |
|--|---|--|--|--|--|---|--|
| NAME OF PROJECT: MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | NAME OF WORK: Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | ORIGINAL DESIGN BY: SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | DESIGN MODIFIED BY: MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | VERIFIED BY: TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | PACKAGE INFO: Package No: SC/MPDS/B11-23-01 Revision No: Issued for Tender | DRAWING TITLE: GROUND FLOOR PLAN All Dimension are in Millimeter unless mentioned | SHEET NO: A-01 SCALE AS SHOWN |
|--|---|--|--|--|--|---|--|





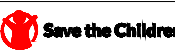
FRONT ELEVATION
SCALE: 1:70



BACK ELEVATION
SCALE: 1:70

Finishing Legend

- 10 Hole machine made ceramic bricks with out side pointing
- In side of wall and all concrete surface will Cement mortar plaster.
- Dado up to PL Cement mortar plaster with NCF.




| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|-----------------------------------|--|---------------------------|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FRONT & BACK ELEVATION | All Dimension are in Millimeter unless mentioned | A-03 SCALE AS SHOWN |






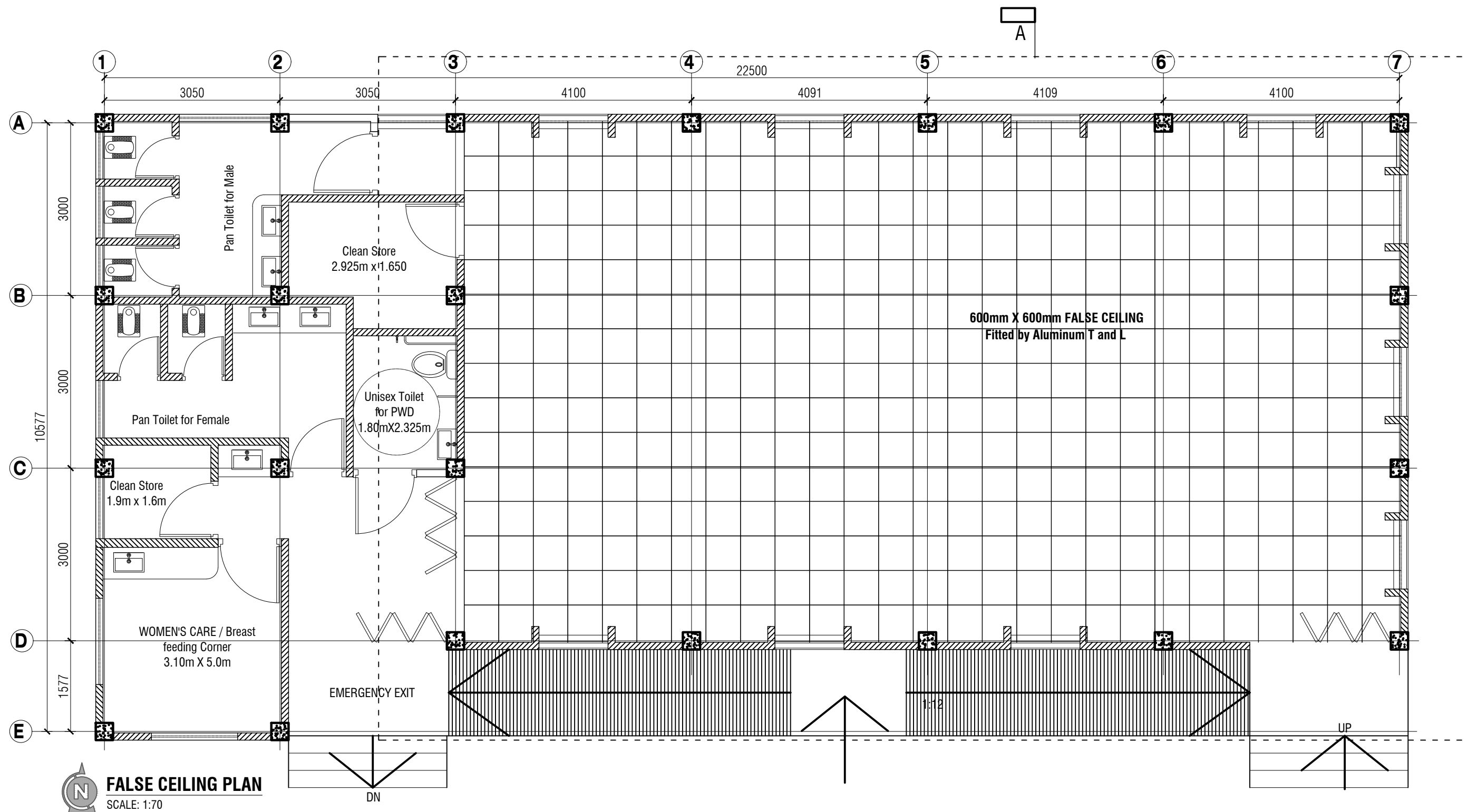
RIGHT SIDE ELEVATION
SCALE: 1:70



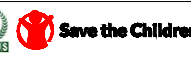


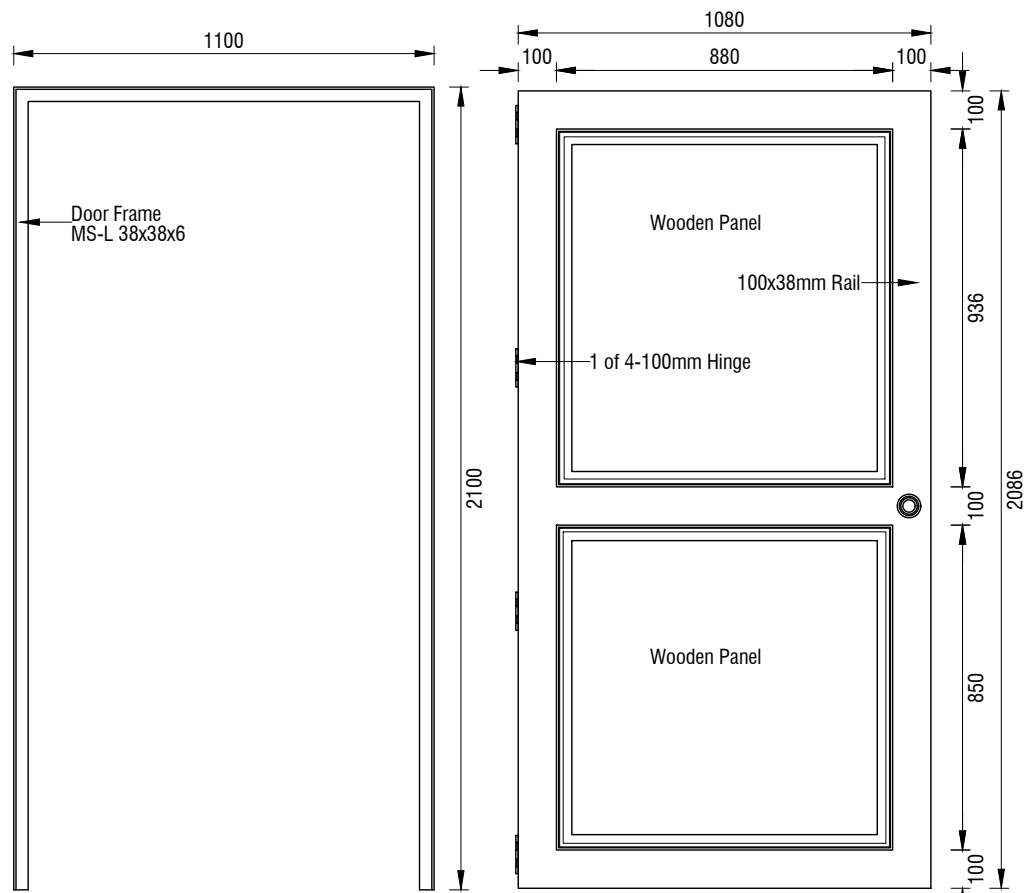
LEFT SIDE ELEVATION
SCALE: 1:70

- Finishing Legend**
-  10 Hole machine made ceramic bricks with out side pointing
 -  In side of wall and all concrete surface will Cement mortar plaster.
 -  Dado up to PL Cement mortar plaster with NCF.

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|--|--|---|---|-----------------------------------|--|---------------------------|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | LEFT & RIGHT ELEVATION | All Dimension are in Millimeter unless mentioned | A-04 SCALE AS SHOWN |

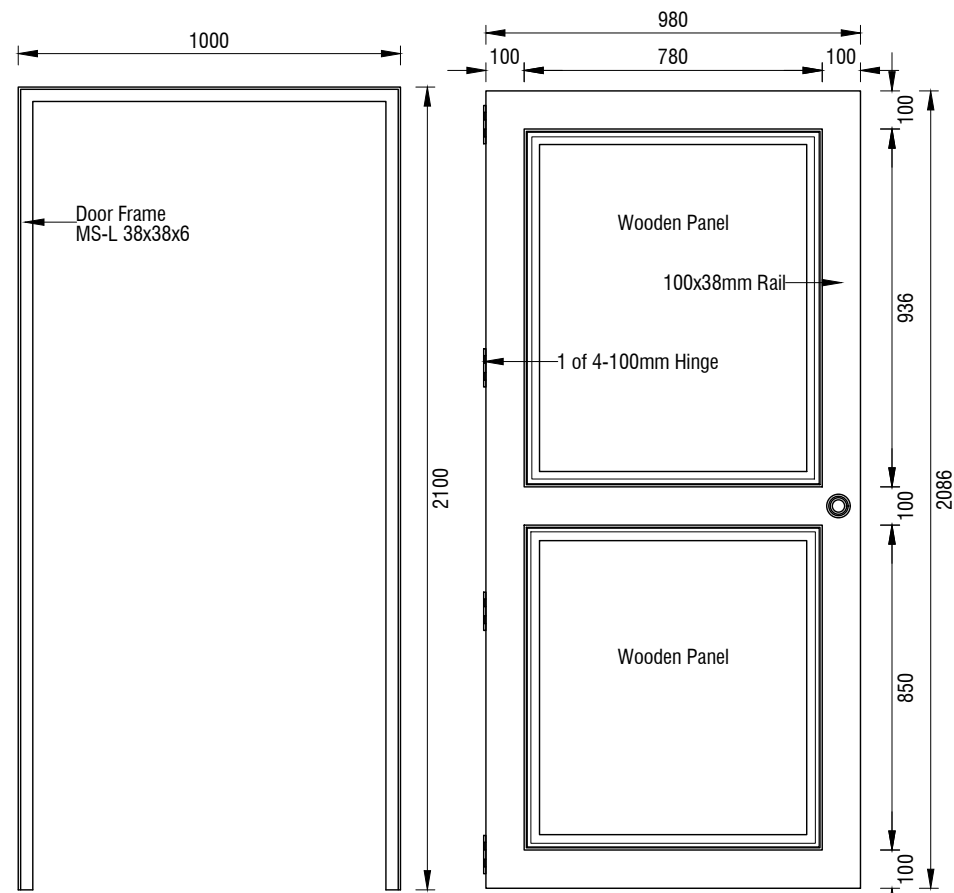


| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|--|--|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DOOR SCHEDULE & RAILING DETAILS | All Dimension are in Millimeter unless mentioned <div>A-06</div> <div>SCALE</div> <div>AS SHOWN</div> |



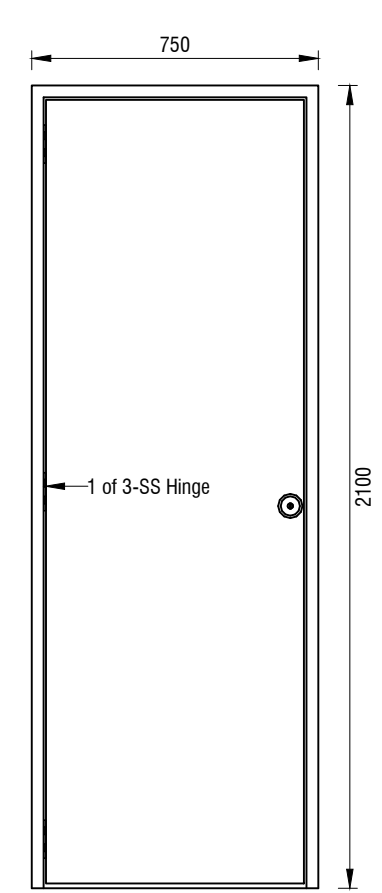
DOOR FRAME (D)

DOOR SHUTTER (D)



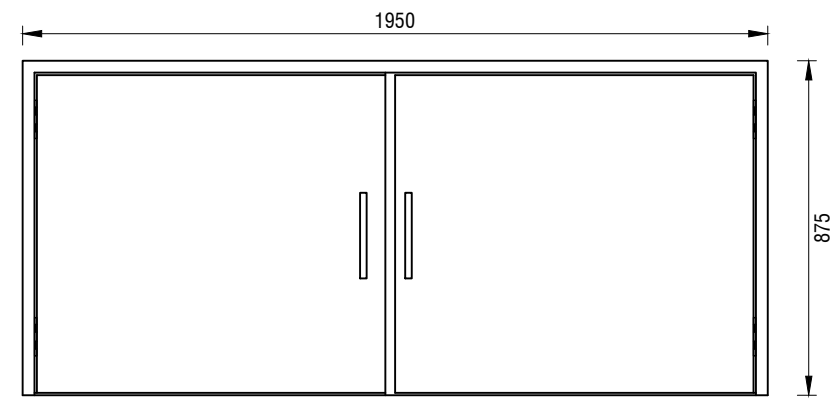
DOOR FRAME (D1)

DOOR SHUTTER (D1)

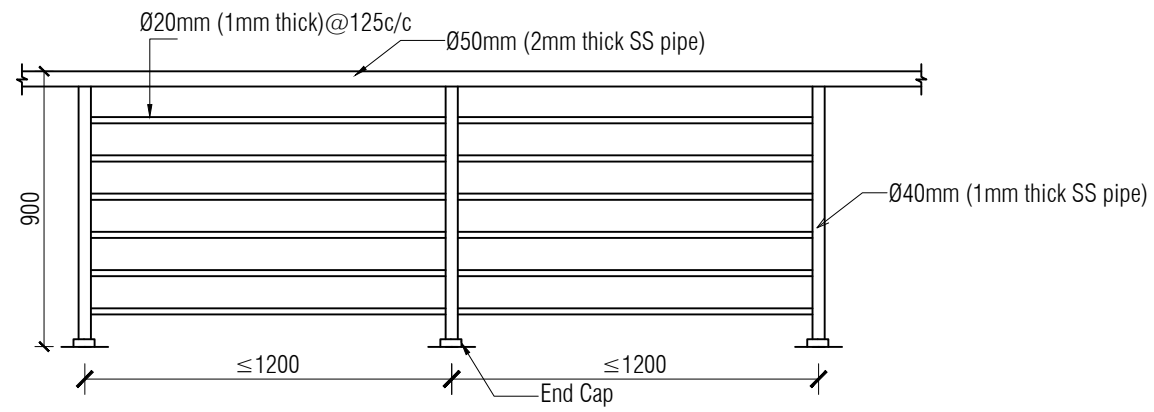


DOOR SHUTTER (E)

| Door Schedule | | | | | | | |
|---------------|--------------|-------|------|--------------|--------------------|--------------|-----------------|
| Type | Total Number | SIZE | | OPENING TYPE | MATERIAL | GLAZING | Handle & Locker |
| | | Width | HGT | | | | |
| D | 004 | 1100 | 2100 | Swing | Wood | Wood Vernish | Shutter Lock |
| D1 | 002 | 1000 | 2100 | Swing | Wood | Wood Vernish | Shutter Lock |
| E | 005 | 750 | 2100 | Swing | uPVC Door | Pre-Colored | Tower bolt |
| D2 | 001 | 1950 | 875 | Double Swing | MS Sheet and Angle | Wood Vernish | Shutter Lock |

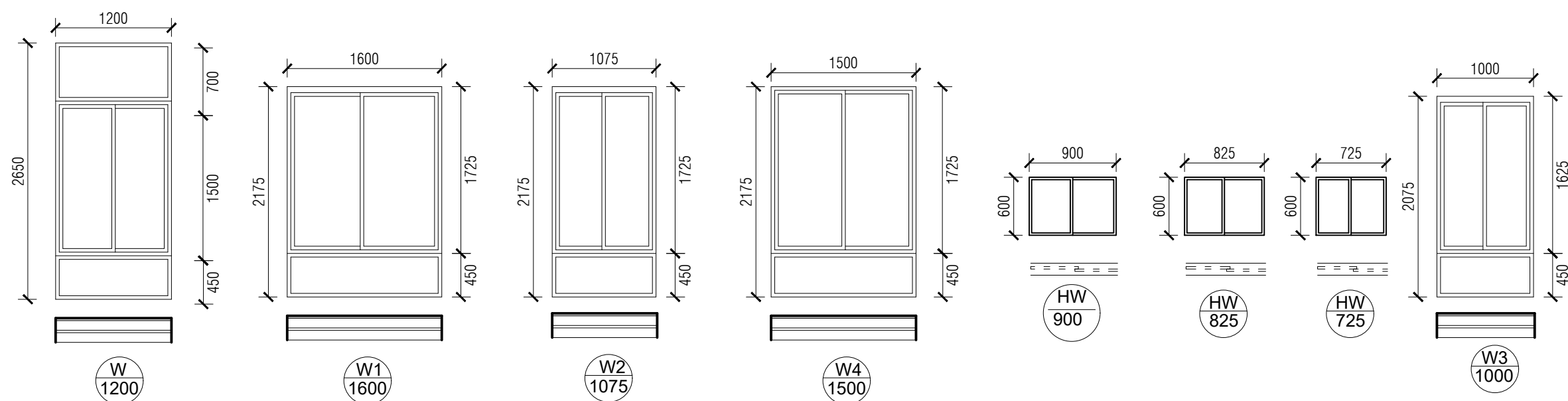


DOOR FOR BATTERY ROOM (D2)




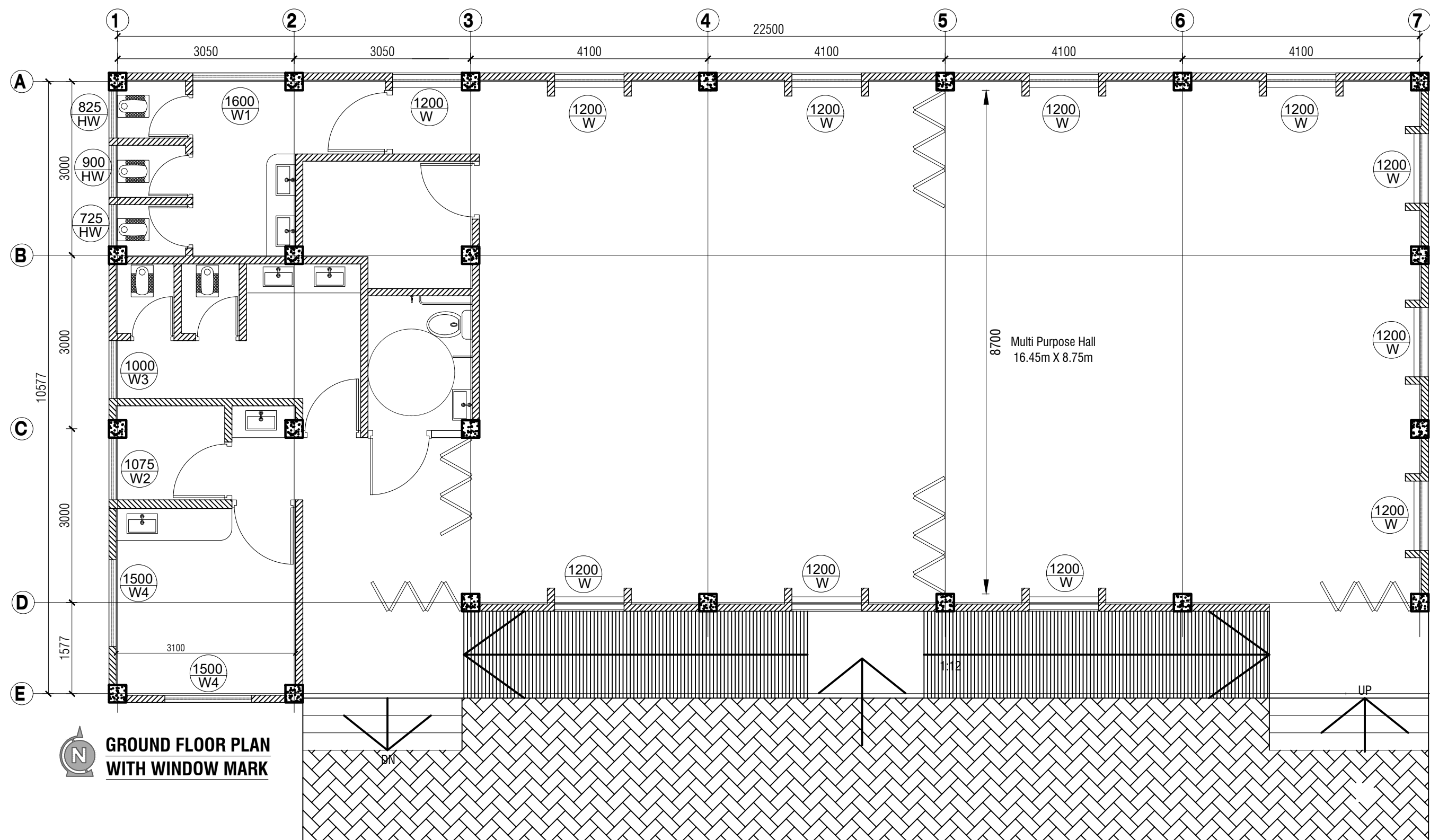
RAILING DETAILS



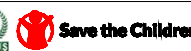
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|--|----------------------------------|
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DOOR SCHEDULE & RAILING DETAILS All Dimension are in Millimeter unless mentioned | A-07 SCALE AS SHOWN |

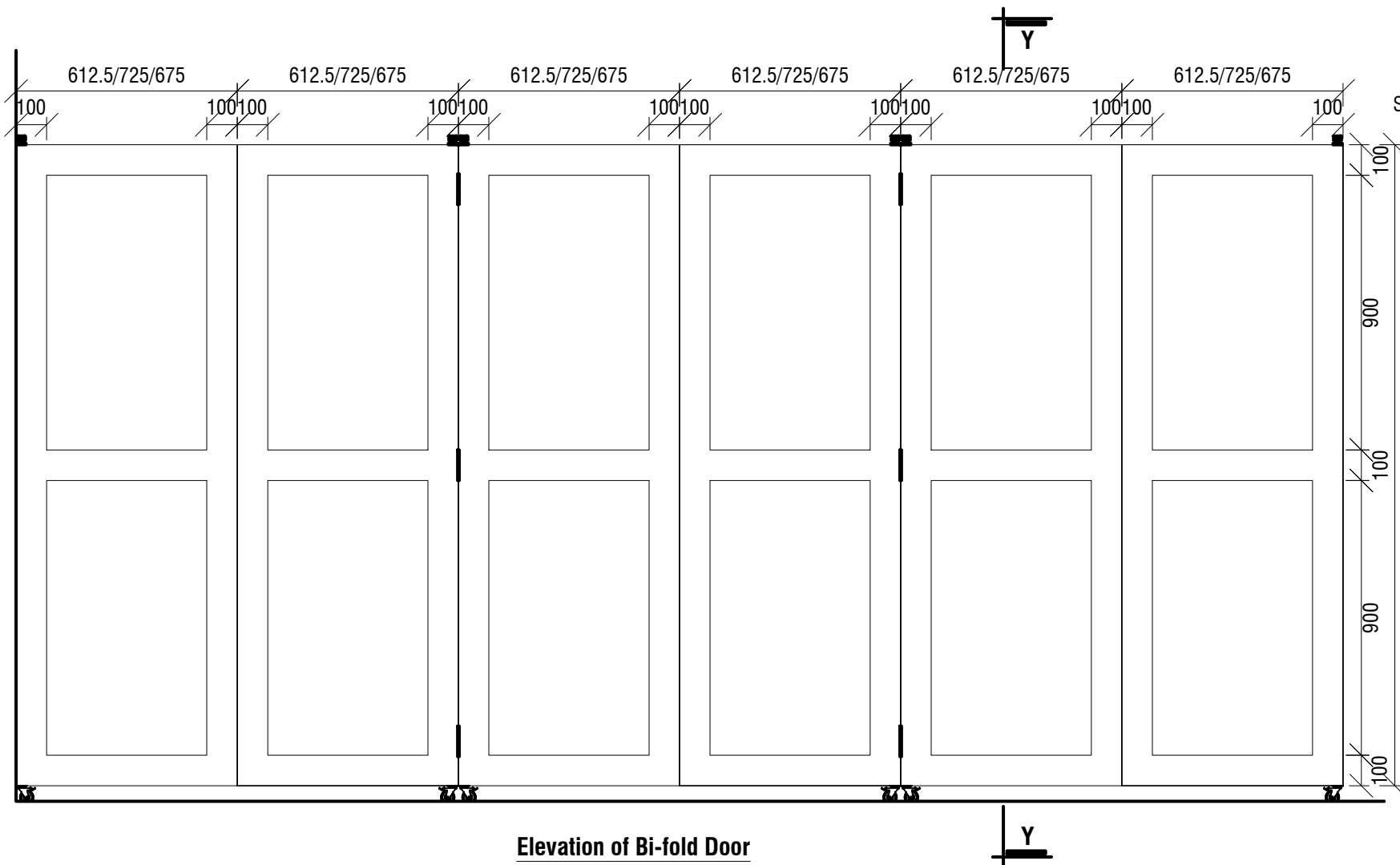


| Window Schedule | | | | | | | | | |
|-----------------|--------|------|------|-----|--|--|--------|--------------------|---------|
| | Window | | | | | | | | GLAZING |
| | | SIZE | | | MATERIAL | FRAME | | | |
| Total | Type | WD | HGT | THK | | MATERIAL | PAINT | OPER. | |
| 11 | W | 1200 | 2650 | 25 | 5mm Thick Distortion Free Clear Glass | Aluminium Thickness not less than 1.5mm | Silver | Sliding & Fixed | Clear |
| 001 | W1 | 1600 | 2075 | 25 | | | | Sliding | |
| 001 | W2 | 1075 | 2075 | 25 | | | | | |
| 001 | W3 | 1000 | 2075 | 25 | | | | | |
| 002 | W4 | 1500 | 2075 | 25 | | | | | |
| 001 | HW | 900 | 600 | 25 | | | | | |
| 001 | HW | 825 | 600 | 25 | | | | | |
| 001 | HW | 725 | 600 | 25 | | | | | |

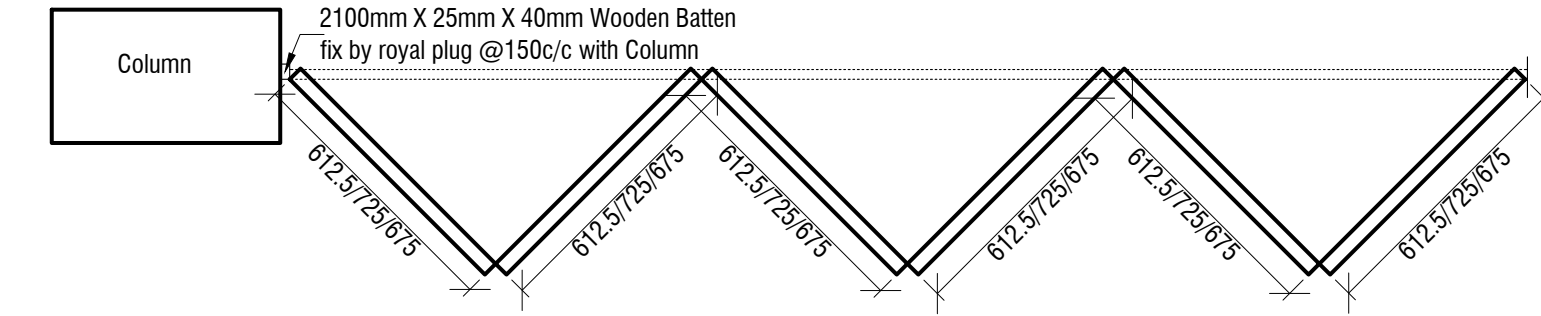
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: | |
|---|---|---|--|---|---|------------------------|--|----------------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | WINDOW SCHEDULE | All Dimension are in Millimeter unless mentioned | A-09 SCALE AS SHOWN |



| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|---|----------------------------------|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GROUND FLOOR PLAN WITH WINDOW MARK All Dimension are in Millimeter unless mentioned | A-10 SCALE AS SHOWN |

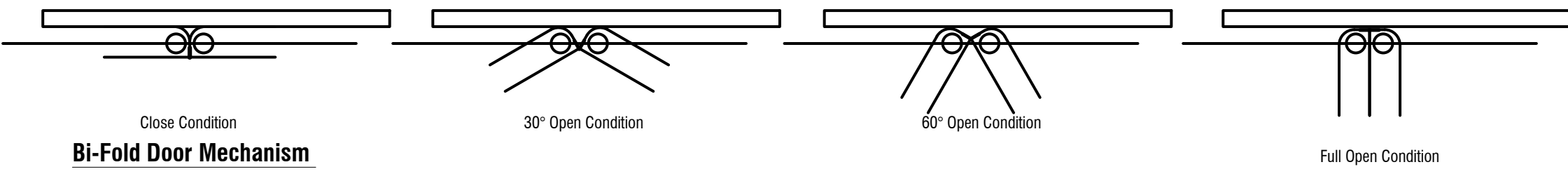


Elevation of Bi-fold Door

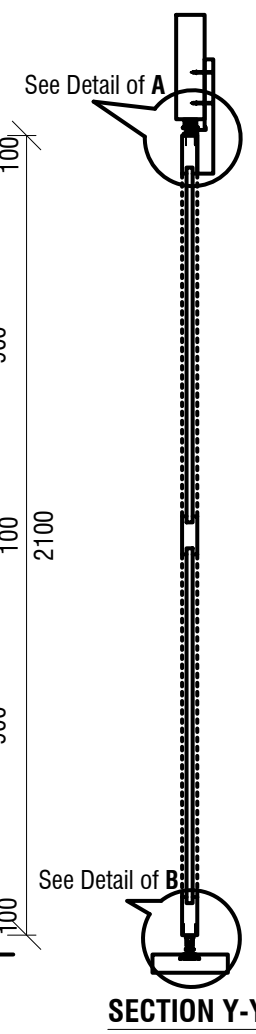


Plan of Bi-fold Door (Half)

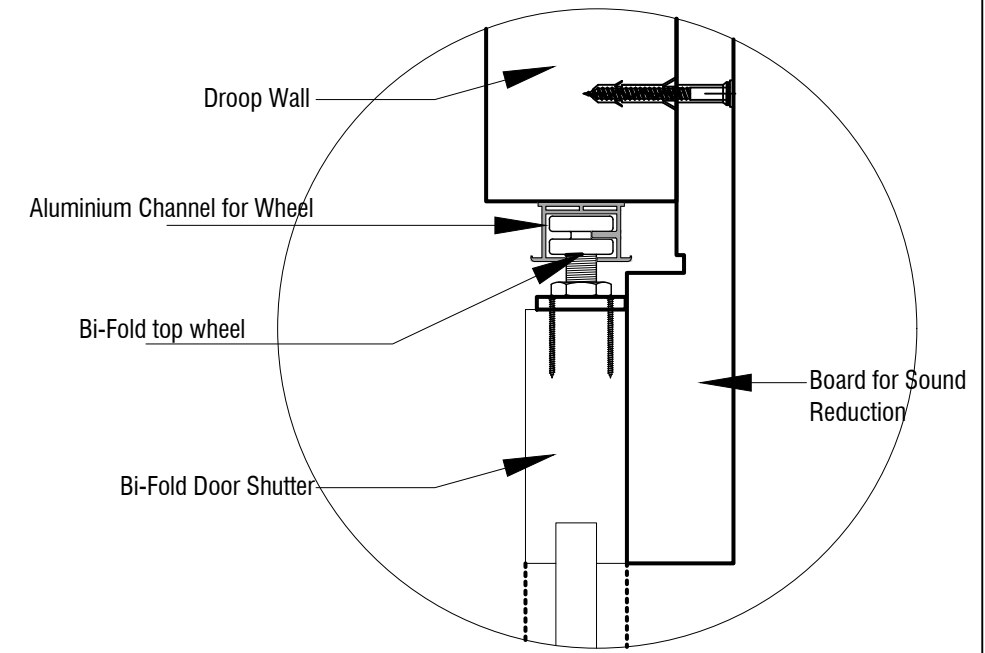
| Bi-Fold Panel Dimension | Door Location |
|-------------------------|------------------------------|
| 675 | Emergency Exit |
| 725 | Multi Purpose Hall Partition |
| 612.5 | Main Entry |



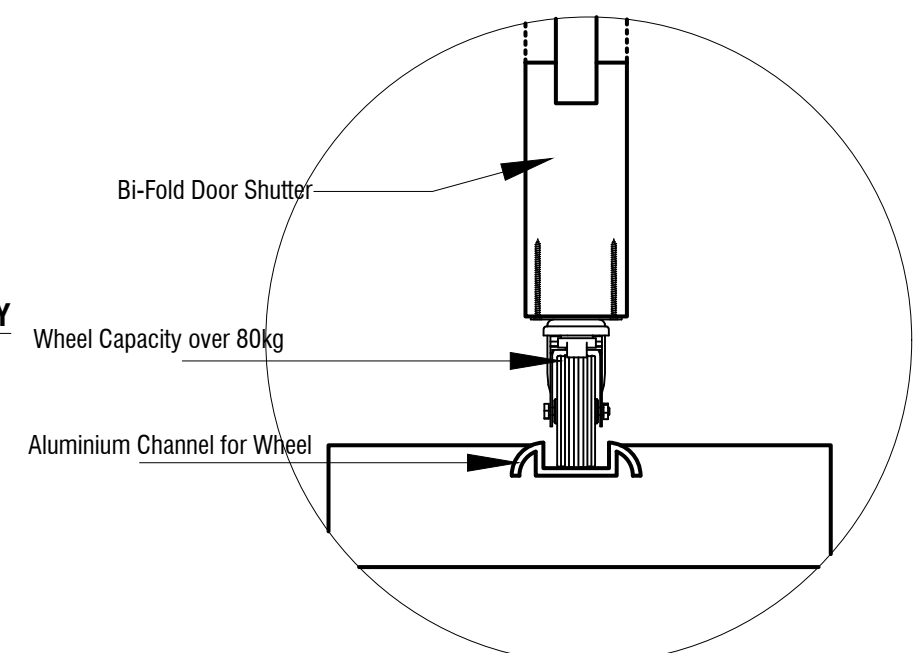
Bi-Fold Door Mechanism



SECTION Y-Y



Detail of A



Detail of B

| | | | | | | | |
|---|---|---|--|---|---|---|---------------------------|
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FOLDING DOOR DETAIL All Dimension are in Millimeter unless mentioned | A-11 SCALE AS SHOWN |



USAID
FROM THE AMERICAN PEOPLE



Save the Children

Multipurpose Disaster Shelter Support (MPDS) Project

STRUCTURAL DESIGN & DRAWINGS

FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT REJU NOTUNPARA PARAKENDRO UNDER
SONAICHHORI UNION, UPAZILA: NAIKANCHHARI, DISTRICT: BANDARBAN

Issued for Tender



Consultant:

SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED

1/12, Block G, Lalmatia, Dhaka

APRIL, 2023

| Table of Content | | | |
|------------------|--|-----------|--------------|
| SL | Drawing Title | Sheet No. | Revision No. |
| 01 | INDEX (SUB & SUPER STRUCTURAL) | 00 | |
| 02 | GENERAL NOTE-1 | SUB-01 | |
| 03 | GENERAL NOTE-2 | SUB-02 | |
| 04 | GENERAL NOTE-3 | SUB-03 | |
| 05 | COLUMN LAYOUT PLAN | SUB-04 | |
| 06 | COLUMN SCHEDULE | SUB-05 | |
| 07 | FOOTING LAYOUT PLAN | SUB-06 | |
| 08 | FOOTING DETAILS | SUB-07 | |
| 09 | SEPTIC TANK DETAILS | SUB-08 | |
| 10 | SOAK WELL DETAILS | SUB-09 | |
| 11 | FLOOR BEAM LAYOUT PLAN | SUP-01 | |
| 12 | FLOOR BEAM DETAILS-1 | SUP-02 | |
| 13 | FLOOR BEAM DETAILS-2 | SUP-03 | |
| 14 | FLOOR SLAB DETAILS | SUP-04 | |
| 15 | RAMP DETAILS | SUP-05 | |
| 16 | ROOF & TIE BEAM LAYOUT PLAN | SUP-06 | |
| 17 | ROOF & TIE BEAM DETAILS | SUP-07 | |
| 18 | ROOF SLAB DETAILS | SUP-08 | |
| 19 | OVER HEAD WATER RESERVOIR DETAIL | SUP-09 | |
| 20 | ANCHOR BOLT LAYOUT PLAN & DETAILS | SUP-10 | |
| 21 | MS ANGEL LAYOUT PLAN | SUP-11 | |
| 22 | PURLIN LAYOUT PLAN & DETAILS | SUP-12 | |
| 23 | CROSS SECTION @GRID 01 & 05 | SUP-13 | |
| 24 | SECTION THROUGH 02-04 | SUP-14 | |
| 25 | DIAGONAL ANGEL & VERTICAL ANGEL DETAIL-I | SUP-15 | |
| 26 | DIAGONAL ANGEL & VERTICAL ANGEL DETAIL-II | SUP-16 | |
| 27 | DIAGONAL ANGEL & VERTICAL ANGEL DETAIL-III | SUP-17 | |
| 28 | DOUBLE ANGEL DETAILS | SUP-18 | |
| 29 | GUSSET PLATE LOCATIONS | SUP-19 | |
| 30 | GUSSET PLATE DETAIL-I | SUP-20 | |
| 31 | GUSSET PLATE DETAIL-II | SUP-21 | |
| 32 | END WALL SHEETING DETAIL | SUP-22 | |

NOTES

THIS NOTE VALID FOR THE DRAWING RELATED TO THIS PROJECT:

1. PLEASE DO NOT SCALE FROM THE DRAWINGS.
2. ALL DIMENSIONS ON THIS DRAWINGS SHALL BE CHECKED ON SITE BEFORE WORK COMMENCES. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS.
3. NO KICKER SHALL BE MADE FOR COLUMNS UNDER ANY CONDITION.
4. ALL AGGREGATES SHALL BE PROPERLY WASHED.
5. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS SHALL CHECK AND CONFIRM THE FOLLOWING PARAMETERS AS PER DRAWINGS BEFORE BEGINNING THE WORKS:

a) REINFORCEMENT POSITION

a) DEVELOPMENT LENGTH

b) CLEAR COVER

c) CONCRETE MIX RATIO

d) ALL DIMENSIONS AND LEVEL
6. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS IS TO NOTIFY THE INFRASTRUCTURE MANAGER/MANAGER-ENGINEERING ABOUT ANY DISCREPANCIES / DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING THE WORK .

COPYRIGHT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF MPDS WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECTS OR EXTENSIONS TO THE PROJECT OR OTHER SIMILAR PROJECTS EXCEPT ANY WRITTEN AGREEMENT.

1. GENERAL INFORMATION:

- a) ALL STRUCTURAL DESIGN PARAMETERS ARE USED ACCORDING TO BNBC-2020.
- b) THE STRUCTURAL SYSTEM IS SPECIAL MOMENT RESISTING FRAME SYSTEM AND THE LATERAL FORCES ARE ANALYZED BY EQUIVALENT STATIC FORCE METHOD.
- c) FOLLOW BNBC-2020 FOR SPECIFICATIONS / STRUCTURAL REQUIREMENTS NOT MENTIONED IN THE DRAWINGS OR IN THIS NOTE SHEET.
- d) ANY DETAILS NOT SHOWN IN THE DRAWING SHOULD BE DONE ACCORDING TO BUILDING CODE & COMMENTARY - 2019, ACI 318-19/318R-19, OTHER LOADS AS PER BNBC 2020
- e) DESIGN METHOD: ☒ USD. ☐ WSD.
- f) ALL THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

2. LOAD CALCULATION DATA:

- a) ARIAL ZONE: ☒ BANDARBAN
- b) BASIC WIND SPEED: 62.5 m/s (FOR BANDARBAN)
- c) SEISMIC ZONE -3 (ZONE CO-EFFICIENT, Z=0.28)
- d) EXPOSURE CONDITION:☐ A ☐ B ☒ C

3. MATERIALS:

3a) ENGINEERING MATERIALS:

i) CEMENT:

ORDINARY PORTLAND CEMENT (PREFERABLE) CONFORMING TO BDS EN 197-1 : 2003 CEM-II 52.5N/ASTM C150 TYPE-1 OR
PORTLAND COMPOSITE CEMENT CONFORMING TO BDS EN 197-1 : 2003 CEM II/AM, 42.5NCOULD BE USED AS SPECIFIED IN SPECIFICATION.

ii). FINE AGGREGATE (SAND):

COARSE SAND (ANGULAR SHAPE) F.M = 2.0 ~2.8
LOCAL SAND Medium (ANGULAR SHAPE) F.M = 1.2~1.8
TO BE USED WALL, CEILING PLASTER & BRICK LAYING MORTAR.
FILLING SAND (ANGULAR SHAPE) F.M = 0.5~0.7
TO BE USED IN GROUND FLOOR FILLING, FOUNDATION FILLING ETC.

iii) COURSE AGGREGATE (CHIPS)

ALL COURSE AGGREGATE SIZE 20MM DOWN WELL GRADED OR OTHERWISE MENTION.
LAA VALUE WILL NOT EXCEEDING 30 WHERE NOT MENTIONED.

iv) REINFORCEMENT:

- a) STEEL TO BE USED WITH YIELD STRENGTH $f_y = 400$ MPa BUT NOT EXCEED 525 MPa DEFORMED BAR WITH MARKED BDS ISO 6935-2:2006
- b) ALL REINFORCEMENT SHOULD BE TESTED AS PER TESTING SCHEDULE AND ITEM SPECIFICATIONS.





v) BRICK:

- a) ALL BRICK SHOULD BE AS PER BDS 208 : 2009

vi) CONCRETE FOR FOOTING:

CONCRETE COMPRESSIVE STRENGTH $f_c = 25$ MPa. AT 28 DAYS
PROPOSED MIXING RATIO = 1:1.5:3 (FIXED)
MAXIMUM WATER CEMENT RATIO = 0.40
CEMENT (BDS EN 197-1 : 2003) = PORTLAND COMPOSITE CEMENT (CEM-II)
ADMIXTURE (ASTM-C494) = TYPE-F OR APPROVED BY E-I-C
FINE AGGREGATE (SAND) FM = 2.5
COURSE AGGREGATE (CHIPS) = 20mm DOWN WELL GRADED CRUSHED STONE
LAA VALUE FOR COURSE AGGREGATE = ≤ 30
MINIMUM SLUMP = 75MM
MIXING METHOD = USING CONCRETE MIXER

* MIX PROPORTION & COMPRESSIVE STRENGTH OF CONCRETE TO BE ENSURED BY MIX DESIGN & LABORATORY TEST AS PER TESTING SCHEDULE.

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|--|--|--|---|--|-----------------|--|--|
| <div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div> | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | <div>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</div> <div>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</div> | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | GENERAL NOTES-1 | All Dimension are in Millimeter unless mentioned | <div>SUB-01</div> <div>SCALE</div> <div>AS SHOWN</div> |

vii) WATER:
POTABLE WATER TO BE USED IN CONCRETE MIX; W/C RATIO WILL NOT EXCEED 40%

| Types of solids | Limits |
|------------------|-----------------|
| Organic solids | ≤ 200 mg/liter |
| Inorganic solids | ≤ 3000 mg/liter |
| Sulphate | ≤ 400 mg/liter |
| Chlorides | ≤ 2000 mg/liter |
| Suspended matter | ≤ 2000 mg/liter |

- 3b) NON ENGINEERING MATERIALS:
- i) POLYTHENE SHEET: 0.18 MM THICK SINGLE LAYER POLYTHENE SHEET TO BE USED BELOW FOUNDATION, SEPTIC TANK OR WHERE MENTIONED

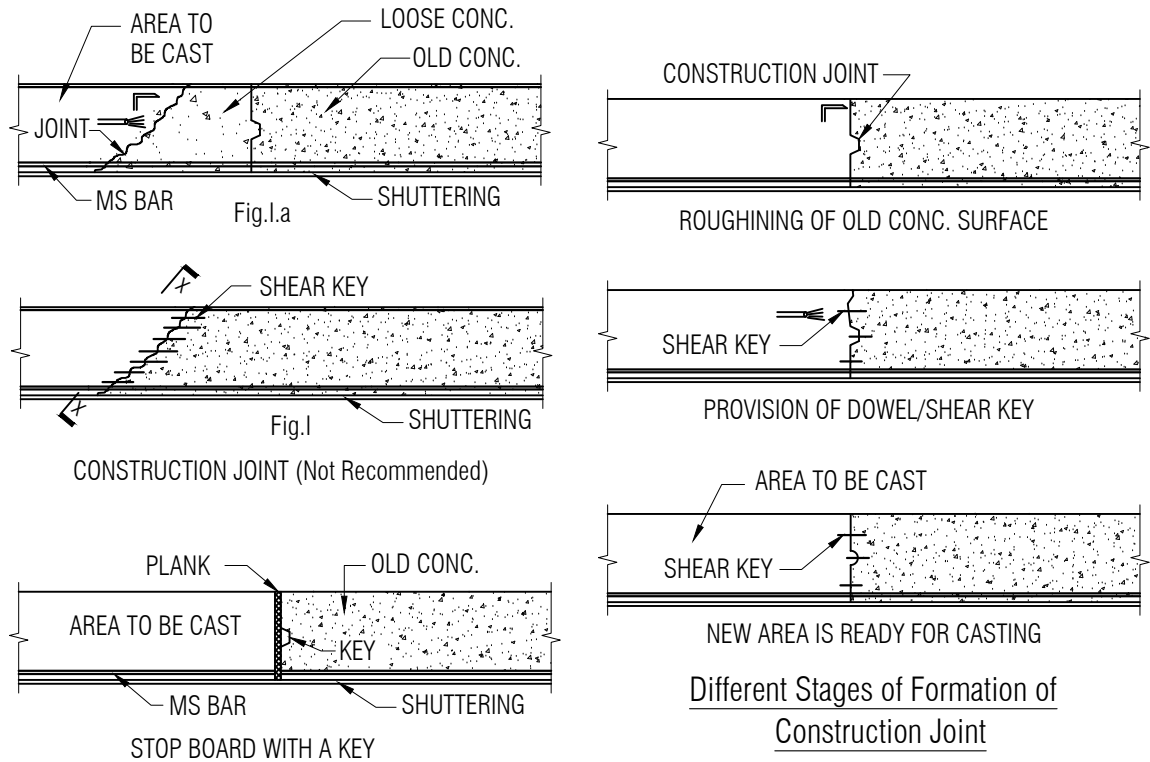
4. SUB STRUCTURE:

4a) FOUNDATION:

- i) THE BUILDING HAS BEEN DESIGNED FOR 1 - STORIED MULTIPURPOSE DISASTER SHELTER BUILDING.
- ii) FOUNDATION TYPE - R.C.C. INDIVIDUAL FOOTING.
- iii) ANY LOOSE POCKET FOUND IN FOUNDATION BED IS TO BE FILLED UP WITH COMPACTED SAND OF MIN FM 2.5 .
- iv) DEPTH OF FOUNDATION: AS PER DRAWING.

4b) CHAIRS:

- i) USE CHAIRS OF NECESSARY DIMENSION MADE OF 10Ø /12Ø/16Ø BAR TO SUPPORT TOP BARS @ 750mm c/c.



5. CONCRETE CLEAR COVER FOR REINFORCING BARS:

| Member | Location / Condition | Thickness of Cover | Figure |
|-----------------------------------|----------------------|--------------------|--------|
| Footing | Bottom | 75 | |
| | Side | 75 | |
| Column | Above Ground Level | * 40 | |
| | Below ground level | * 75 | |
| U.Ground R.C.C (200mm & above) | Exterior | 50 | |
| | Interior | 50 | |

6. CURING OF R.C.C WORK :

11a) CURING TIME MINIMUM 21 DAYS (UNLESS OTHERWISE SPECIFIED)

11b) METHOD OF CURING :

- i) HORIZONTAL SURFACE - BY POUNDING OF WATER
- ii) OTHER SURFACES - BY WRAPPING MOIST JUTE FABRIC OR SPRINKLING WATER BY HOSE PIPE FREQUENTLY.

7. SCHEDULE FOR REMOVING FORM WORK:

12a) VERTICAL SIDES

- i) FOR BEAM = 48 hr.
- ii) COLUMN = 72 hr.

12b) BOTTOM SIDES : ALLOW MINIMUM ONE DAY PER FEET OF BEAM SPAN LENGTH BUT NOT LESS THAN 14 DAYS.

12c) SLAB : MINIMUM 28 DAYS.

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|--|---|
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GENERAL NOTES-2 All Dimension are in Millimeter unless mentioned | SUB-02 SCALE AS SHOWN |

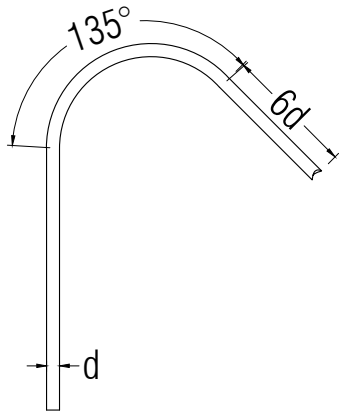
8. EARTH QUAKE CONSIDERATION:

8a) LAP OR DEVELOPMENT LENGTH (SPECIALLY FOR EARTHQUAKE CONSIDERATION):
UNLESS OTHERWISE MENTIONED IN THE DRAWINGS, LAP LENGTH OF BARS SHALL BE :

| BAR DIA (mm) | TENSION (mm) | | COMPRESSION (mm) |
|--------------|----------------|-------------------|------------------|
| | TOP BARS (50d) | BOTTOM BARS (50d) | ALL BARS (50d) |
| 8Ø | 400 | 400 | 400 |
| 10Ø | 500 | 500 | 500 |
| 12Ø | 600 | 600 | 600 |
| 16Ø | 800 | 800 | 800 |
| 20Ø | 1000 | 1000 | 1000 |
| 22Ø | 1100 | 1100 | 1100 |
| 25Ø | 1250 | 1250 | 1250 |
| 28Ø | 1400 | 1400 | 1400 |
| 32Ø | 1600 | 1600 | 1600 |

8b) FOR SEISMIC CONSIDERATION MAXIMUM 50% LAP SPLICE FOR COLUMN MUST BE LOCATED WITHIN CENTER HALF OF LENGTH IN EACH FLOOR.

8c) FOR SEISMIC CONSIDERATION ALL TIE BAR IN COLUMN MUST BE BEND AS SHOWN IN FIG.



8d) STIRRUP & MAIN BAR MUST BE KEPT IN RIGHT ANGLE.


9. SOME MORE NOTE :

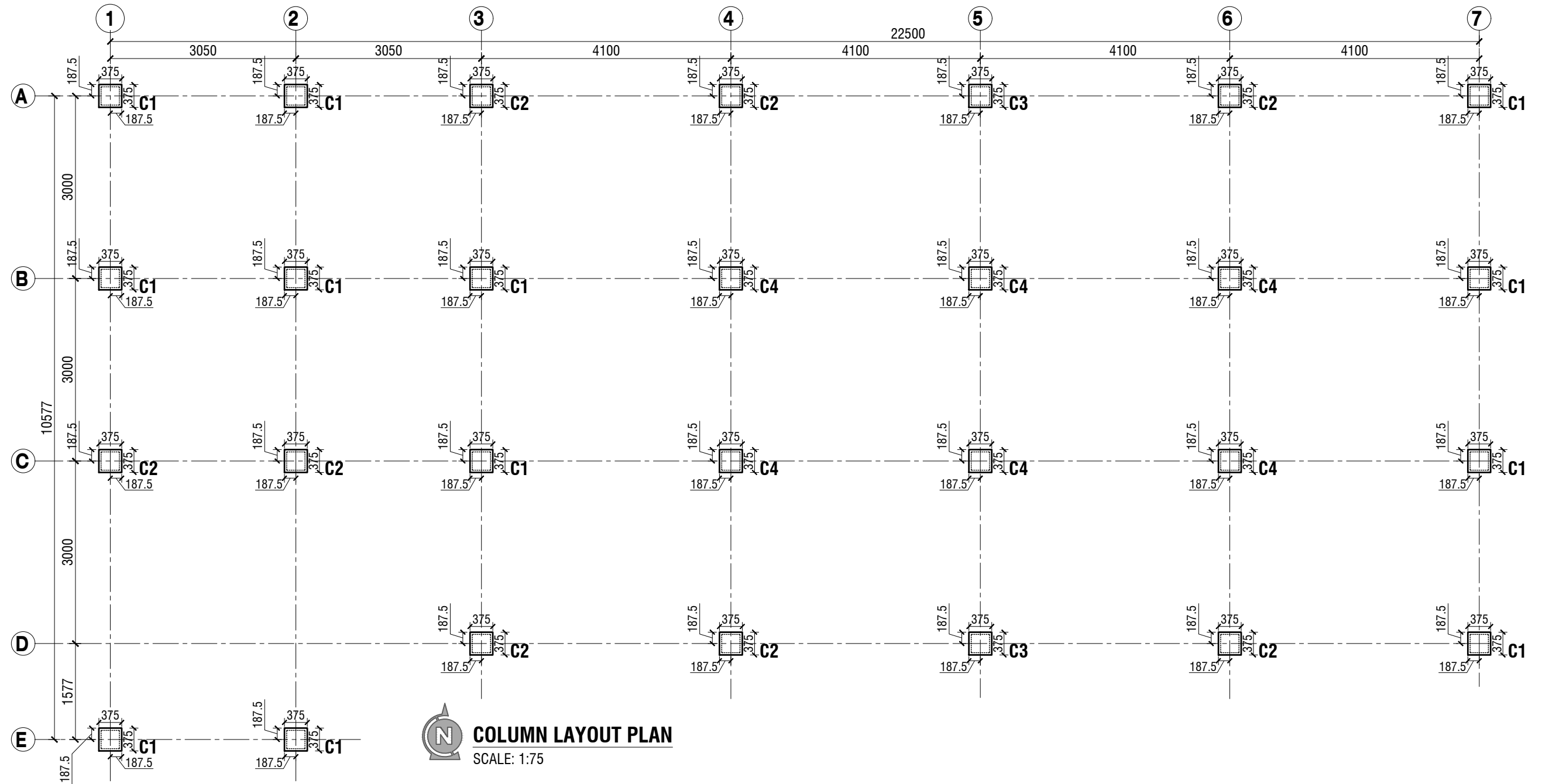
- a) REINFORCEMENT FOR FALSE SLAB ARE 10mmØ @ 150mm c/c.
- b) ALL FALSE SLAB THICKNESS ARE 75mm UNLESS INDICATED WITHIN THE DRAWING.
- c) ALL FALSE SLAB AND LINTEL BOTTOM LEVEL SHOULD BE MAINTAINED AS PER INSTRUCTION OF ARCHITECTURAL DRAWINGS.
- d) ALL OUT SIDE MEASUREMENT OF FALSE SLAB MUST BE RE-CHECKED FROM ARCHITECTURAL DRAWING.
- e) TEST FREQUENCY OF MATERIALS:



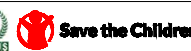
| SL | Item Work | Type of Test | Test Frequency |
|----|---------------|---|--------------------------------|
| 01 | Concrete | Sand FM | One/50m³ |
| | | W/A Coarse Aggregate | One/50m³ |
| | | LAA / ACV | One/50m³ |
| | | Gradation of CA | One/50m³ |
| | | Setting Time of Cement | One/50m³ |
| | | Compressive Strength of Cement (7, 28 days) | One/50m³ (Before Construction) |
| | | Compressive Strength of Concrete (7, 28 days) | One/50m³ (During Construction) |
| | | | |
| 02 | Brick Work | Compressive Strength of Brick | One set /300 m³ |
| | | Water Absorption of Brick | One set /300 m³ |
| | | Efflorescence of Brick | One set /300 m³ |
| | | Setting Time of Cement | One set /300 m³ |
| | | CS of Cement (7, 28 days) | One set /300 m³ |
| | | Sand FM | One set /300 m³ |
| | | | |
| 03 | Reinforcement | Unit weight, Elongation & Tensile Strength | One set / Dia/ 10000Kg |
| 04 | Plaster | Sand FM | One/3000m² |
| | | Setting Time of Cement | One/3000m² |
| 05 | Others Item | Any | As per CODE/Schedule |

Note: If the number of tests to be performed as per specified test frequency for any item becomes a whole number with a fraction equal to 0.20 or less in that case the actual number of the test shall be the whole number only. On the other hand, if the fraction is more than 0.20 then the actual number of tests for that item shall be rounded to the next whole number. The engineer in Charge has the right to increase the no of tests for any item beyond the set frequency as deemed necessary to ensure the quality and the contractor is to perform the additional tests on his own. For any additional test by the Engineer in charge required to ensure the quality, the bill will be as per the actual voucher of the recognized testing institute.

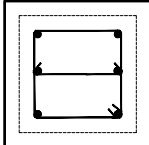
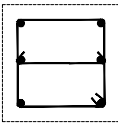
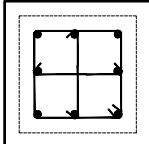
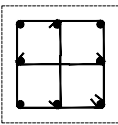
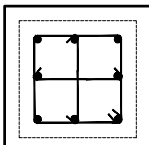
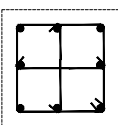
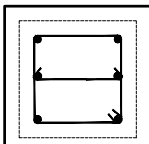
MPDS has the right to test any materials in their own laboratory with or without the presence of the contractor or his representative. No payment and voucher will be made for any test in the MPDS laboratory.

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|------------------------|--|---|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GENERAL NOTES-3 | All Dimension are in Millimeter unless mentioned | SUB-03 SCALE AS SHOWN |

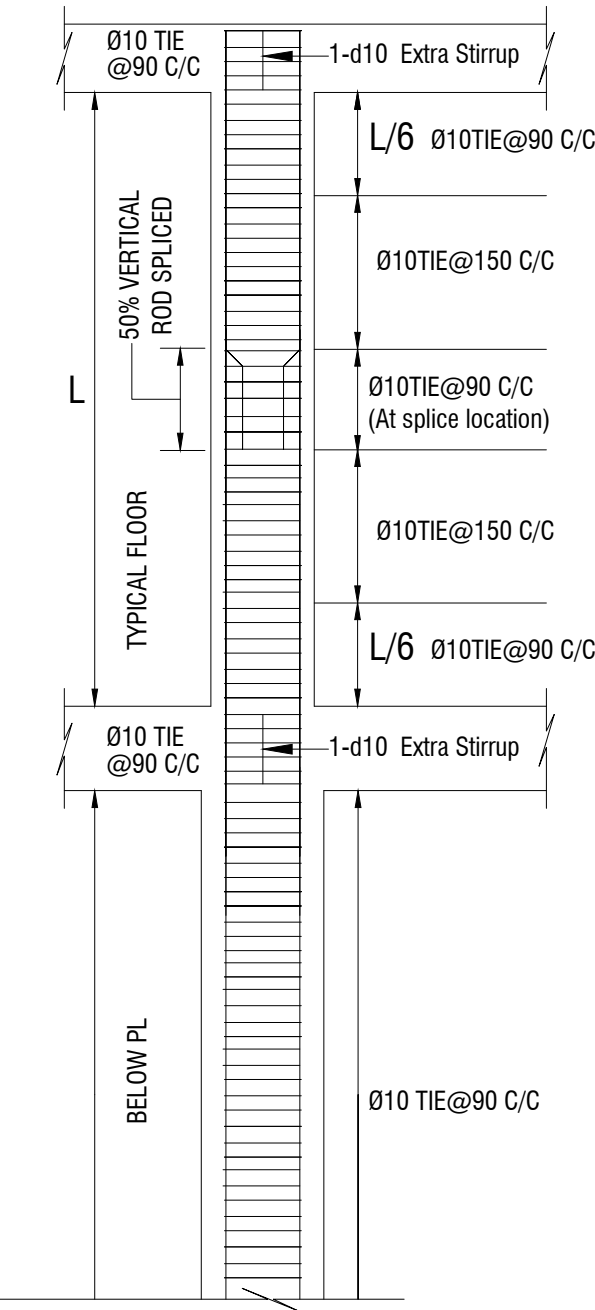


| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|--|--|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | COLUMN LAYOUT PLAN All Dimension are in Millimeter unless mentioned | SUB-04 SCALE AS SHOWN |

COLUMN SCHEDULE:


| COL.ID | Below PL | Above PL |
|--------|--|---|
| C1 | <div>375</div> <div></div> <div>6-16mmØ</div> <div>TIE:10mmØ @90 mm c/c</div> | <div>300</div> <div></div> <div>6-16mmØ</div> <div>TIE:10mmØ @90/150/90 mm c/c</div> |
| C2 | <div>375</div> <div></div> <div>8-16mmØ</div> <div>TIE:10mmØ @90 mm c/c</div> | <div>300</div> <div></div> <div>8-16mmØ</div> <div>TIE:10mmØ @90/150/90 mm c/c</div> |
| C3 | <div>375</div> <div></div> <div>4-20mmØ+4-16mmØ</div> <div>TIE:10mmØ @90 mm c/c</div> | <div>300</div> <div></div> <div>4-20mmØ+4-16mmØ</div> <div>TIE:10mmØ @90/150/90 mm c/c</div> |
| C4 | <div>375</div> <div></div> <div>6-16mmØ</div> <div>TIE:10mmØ @90 mm c/c</div> | |

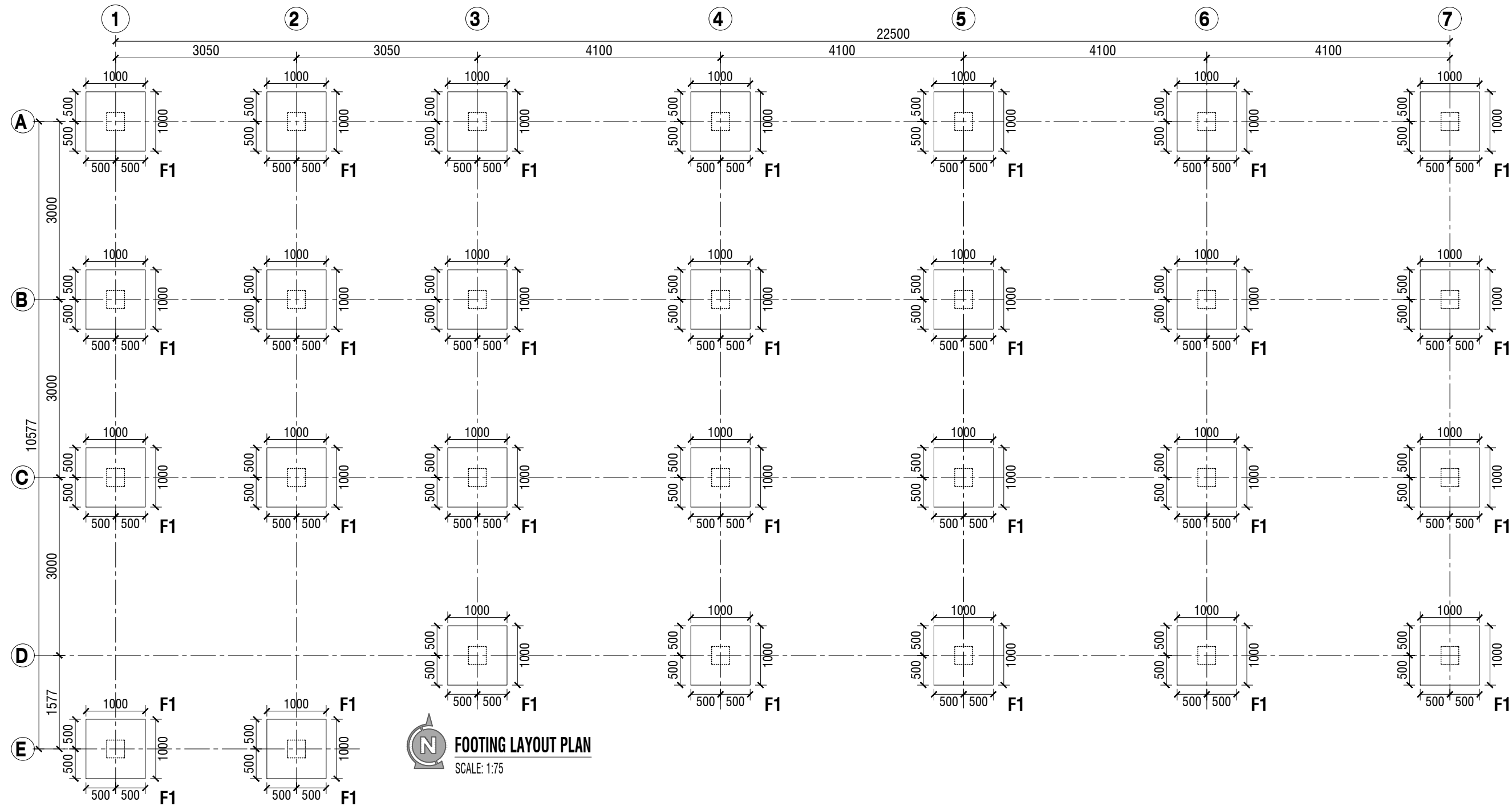
COLUMN TIE ARRANGEMENT




NOTES FOR CRUSHING STRENGTH OF CONCRETE







| | |
|-----------------------------------|---------------------------------------|
| Concrete Compressive Strength Fc' | = 25 MPa. at 28 Days |
| Proposed Mixing Ratio | = 1:1.5:3 (Fixed) |
| Maximum Water Cement Ratio | = 0.40 |
| Cement (BDS EN 197-1 : 2003) | = Portland Composite Cement (CEM-II) |
| Admixture (ASTM-C494) | = Type-A or approved by E-I-C |
| Fine Aggregate (Sand) FM | = 2.2 |
| Course Aggregate (Chips) | = 20mm Down Well Graded Crushed stone |
| LAA value for Course Aggregate | = ≤ 30 |
| Minimum Slump | = 75mm |
| Mixing Method | = Using Concrete Mixer |

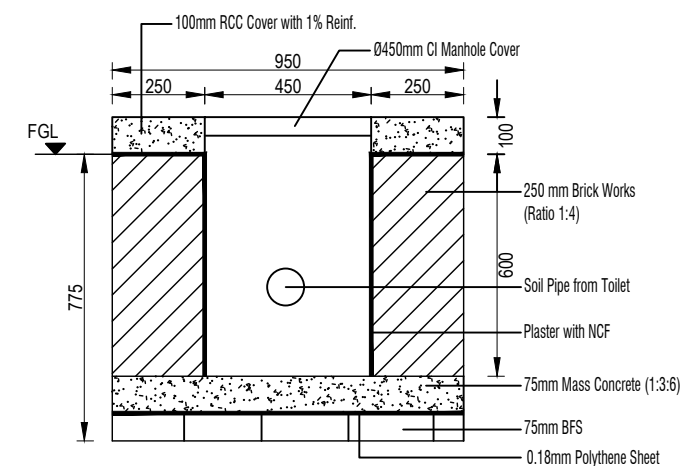
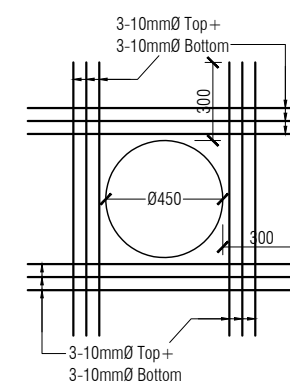
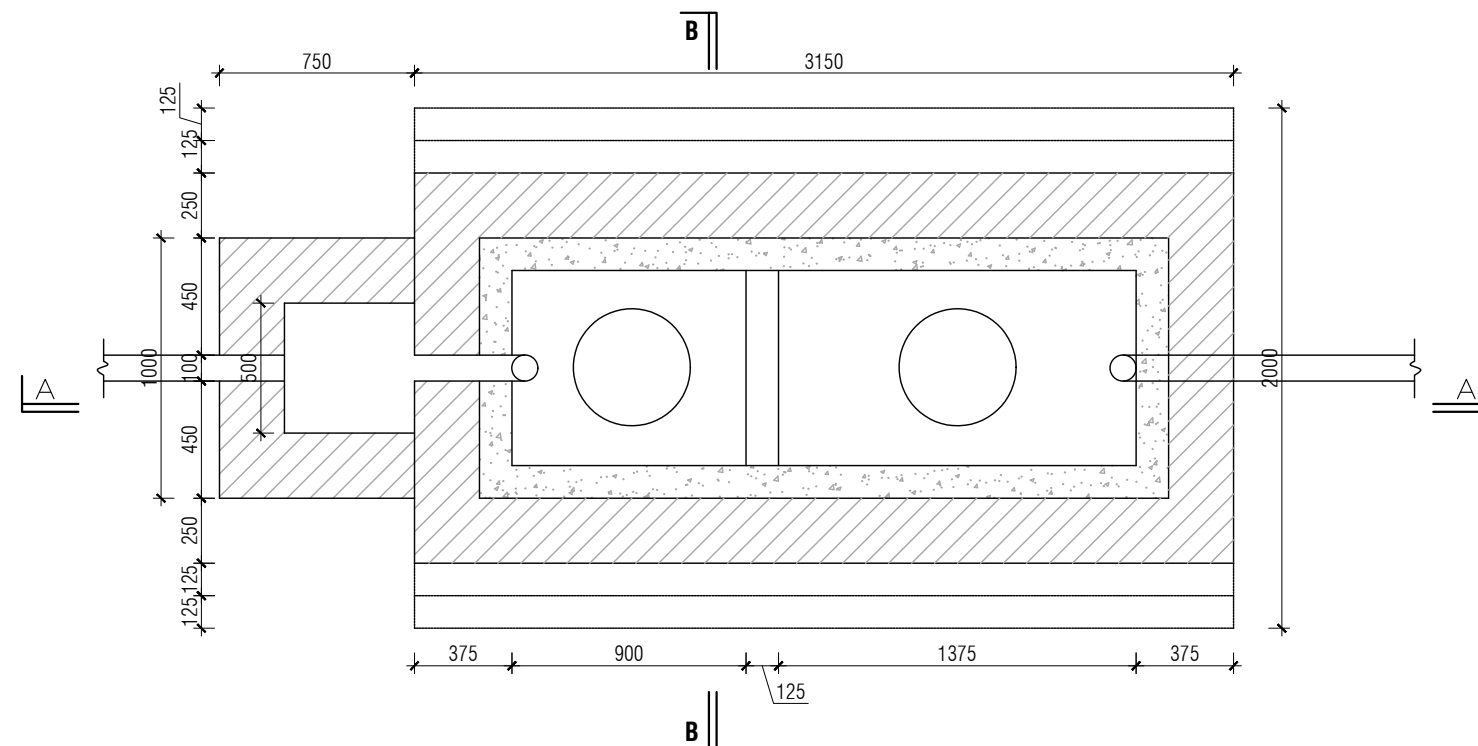
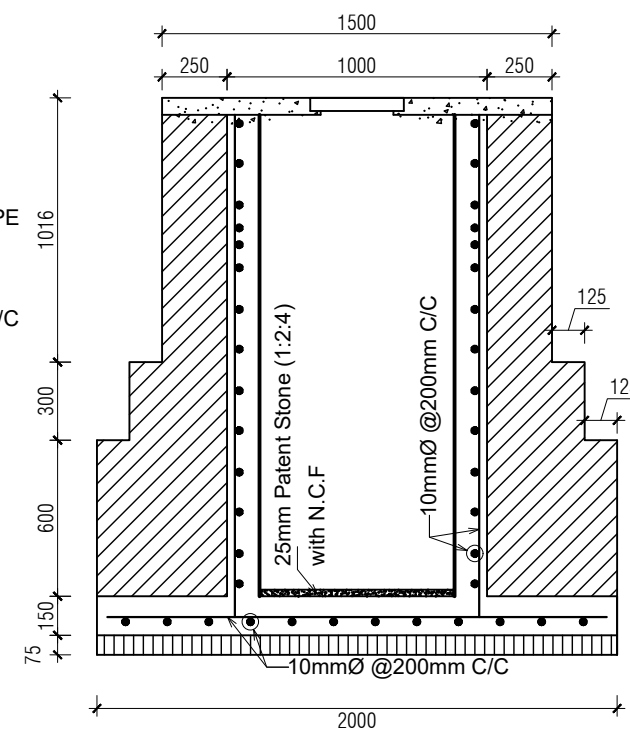
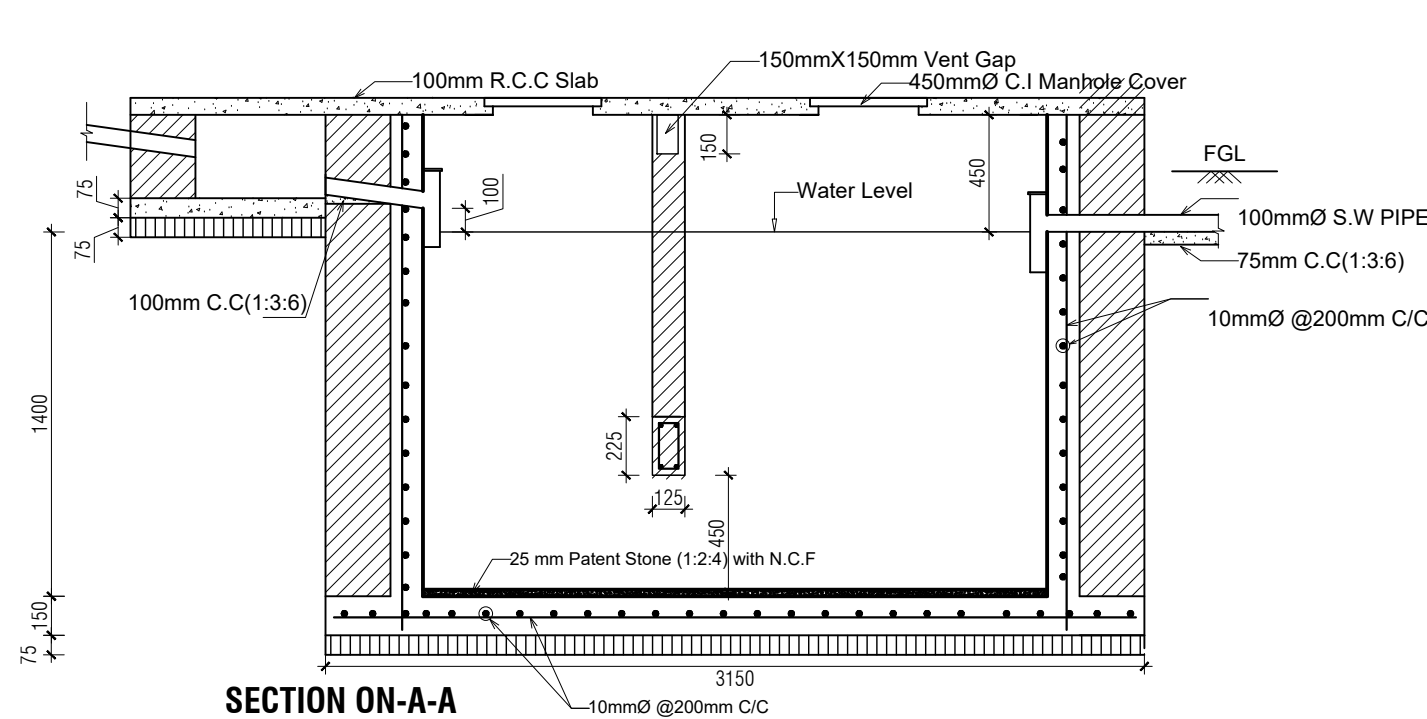
| | | | | | | | | |
|---|--|--|--|---|---|-----------------|---|-----------------------------|
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
| <div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div> | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | COLUMN SCHEDULE | All Dimension are in Millimeter unless mentioned | SUB-05 SCALE AS SHOWN |
| FUNDED BY: USAID | | | | | | | | |





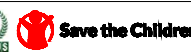
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|----------------------------|--|---|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FOOTING LAYOUT PLAN | All Dimension are in Millimeter unless mentioned | SUB-06 SCALE AS SHOWN |

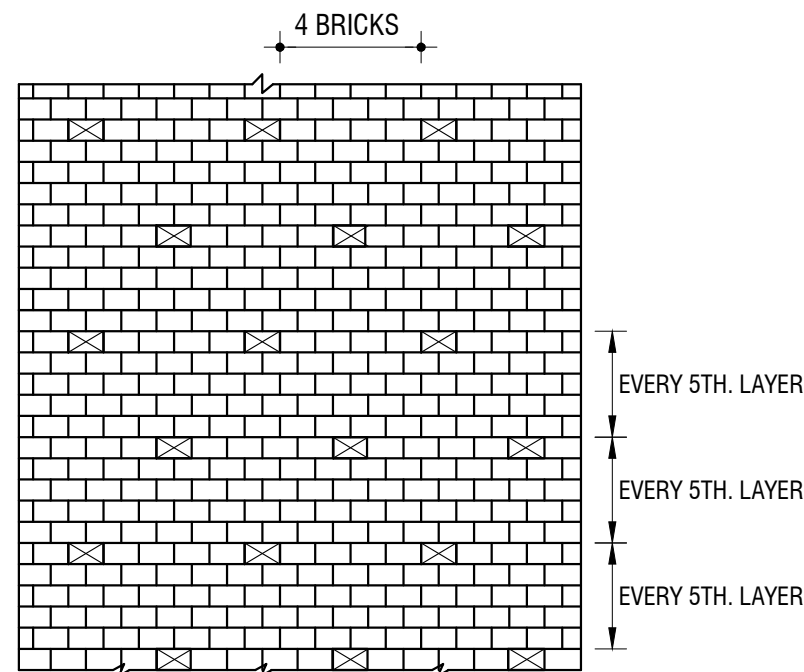


| NAME OF PROJECT: | | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | | DRAWING TITLE: | | SHEET NO: |
|---|--|--|---|--|---|--|---------------------------|---|----------|-----------|
| <div></div> <p>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</p> | | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | <div>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</div> <p>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</p> | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | DETAILS OF FOOTING | All Dimension are in Millimeter unless mentioned | SUB-07 | |
| | | | | | | | | | SCALE | |
| | | | | | | | | | AS SHOWN | |

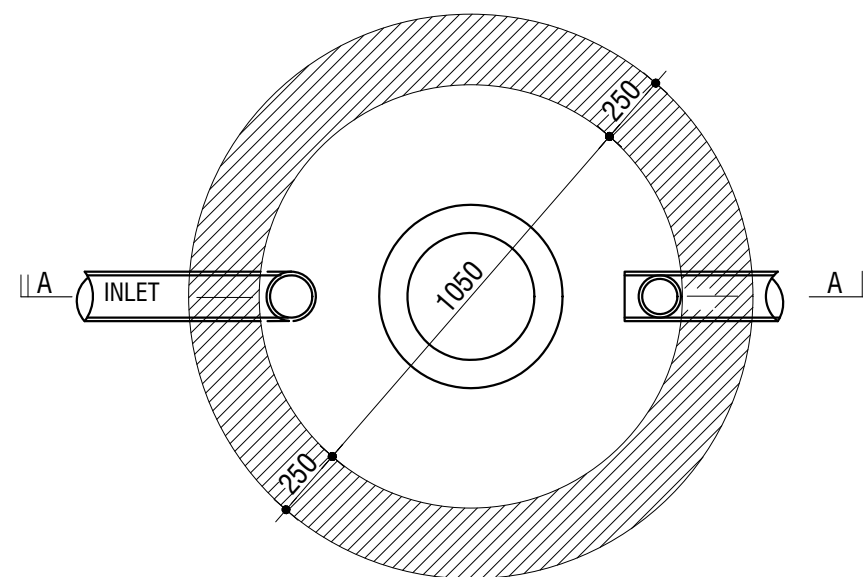


Septic Tank Location is shown in Page **GEN-02**

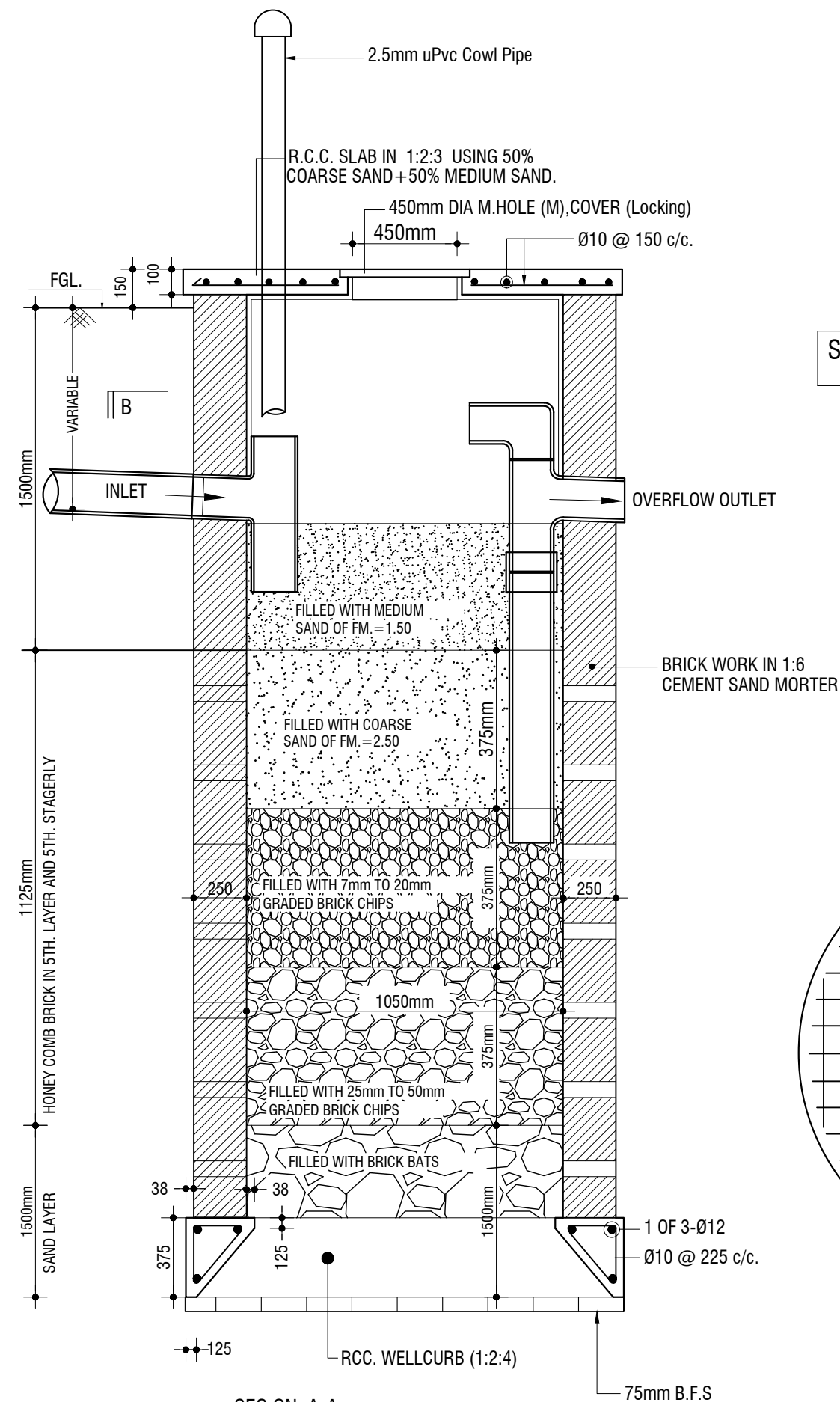
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|---|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | SEPTIC TANK DETAIL All Dimension are in Millimeter unless mentioned | SUB-08 SCALE AS SHOWN |



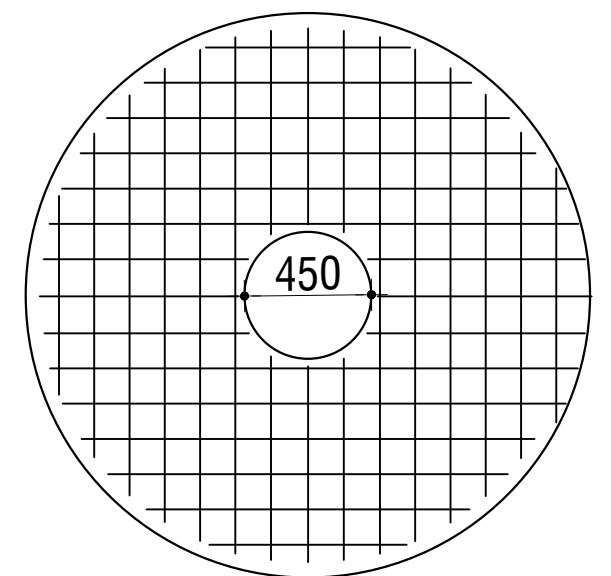
ELEVATION OF SOAK WELL(PART)



PLAN OF SOAK WELL & OUT LET OF SOAK WELL



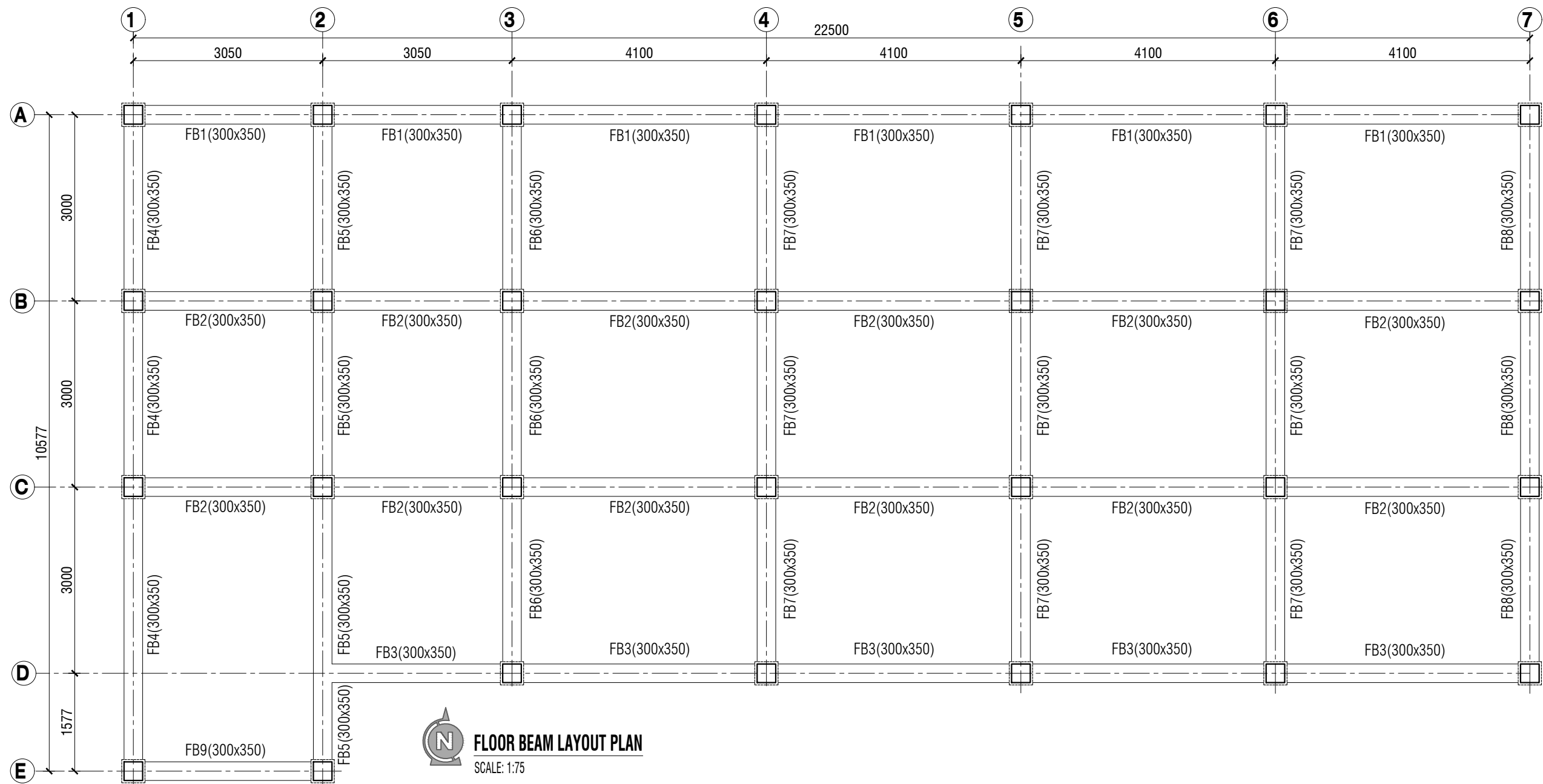
SEC ON A-A



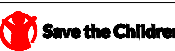



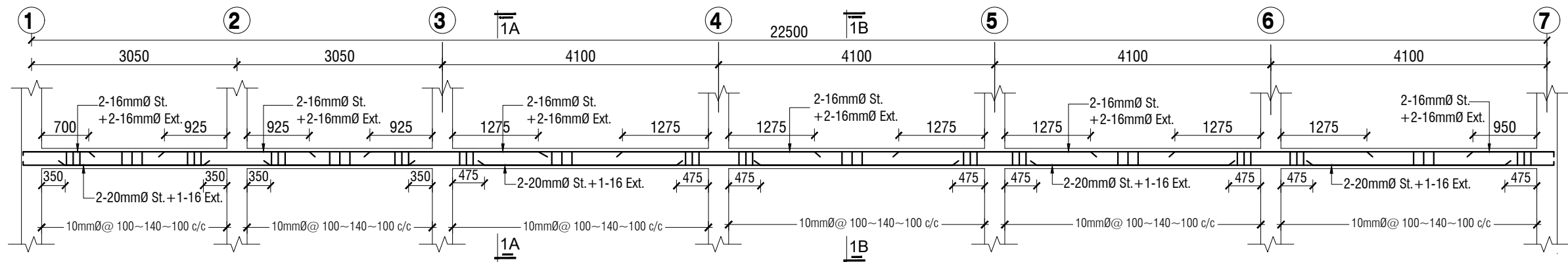
REINF. PLAN OF TOP SLAB

Soak Well Location is shown in Page **GEN-02**

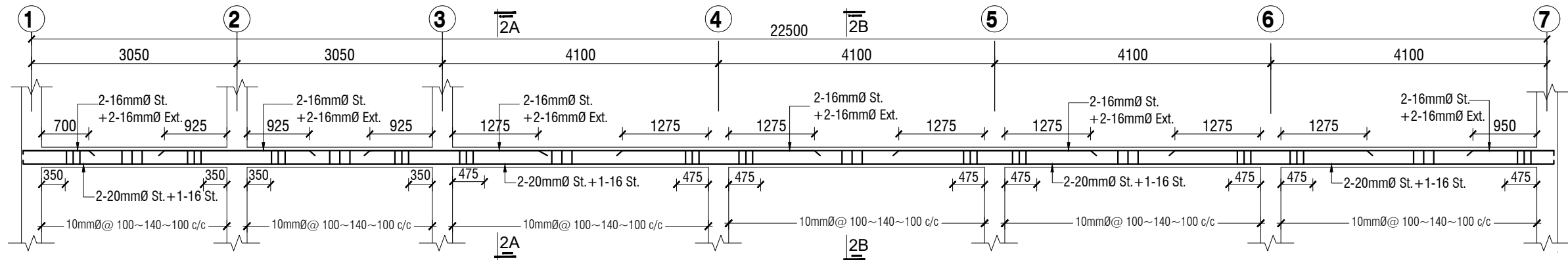
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|--|---|
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | SOAK WELL DETAILS All Dimension are in Millimeter unless mentioned | SUB-09 SCALE AS SHOWN |



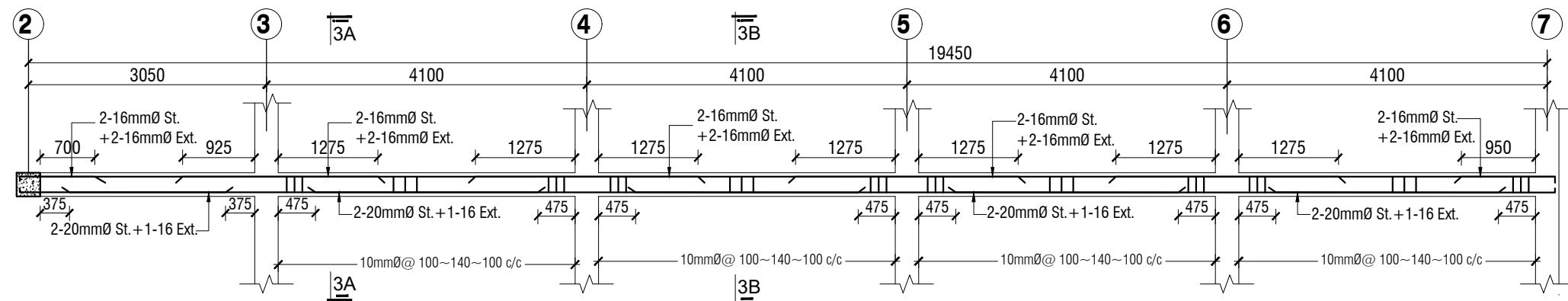
| | | | | | | | | |
|--|---|--|--|---|---|-------------------------------|---|------------------------------------|
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID |  SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FLOOR BEAM LAYOUT PLAN | All Dimension are in Millimeter unless mentioned | SUP-01 SCALE AS SHOWN |



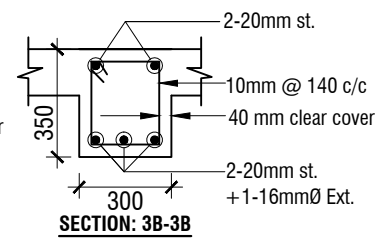
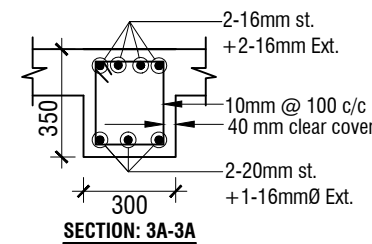
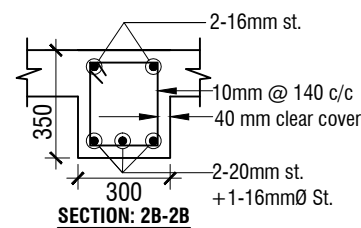
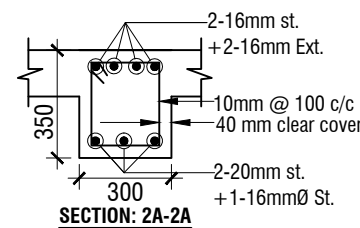
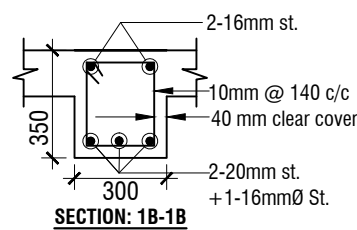
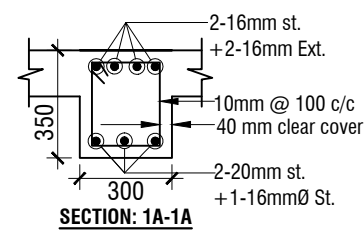
LONG SECTION OF FLOOR BEAM FB1 (300x350)




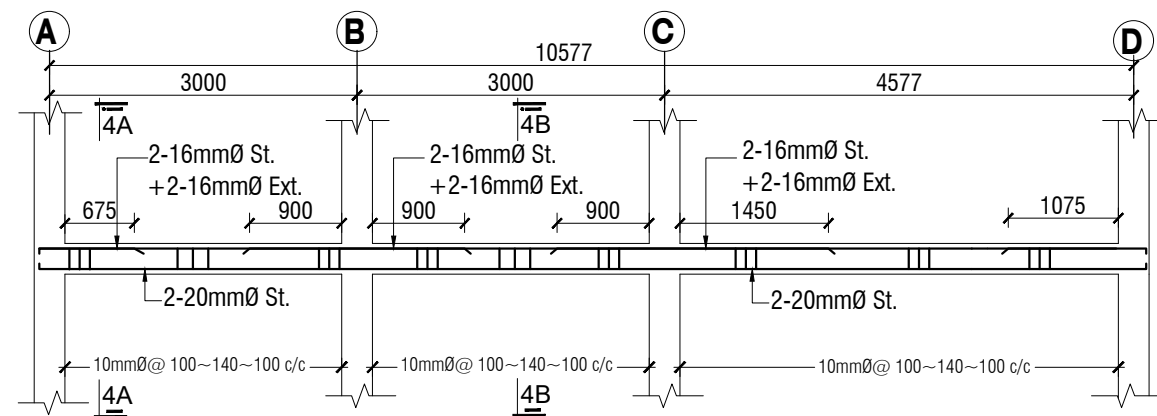
LONG SECTION OF FLOOR BEAM FB2 (300x350)



LONG SECTION OF FLOOR BEAM FB3 (300x350)

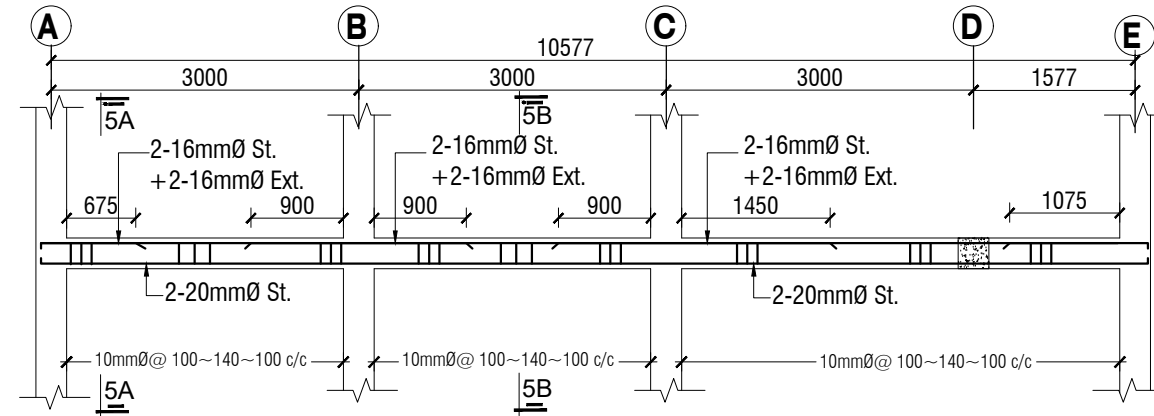


| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|---|--|---|---|------------------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FLOOR BEAM DETAILS-1 All Dimension are in Millimeter unless mentioned | SUP-02 SCALE AS SHOWN |



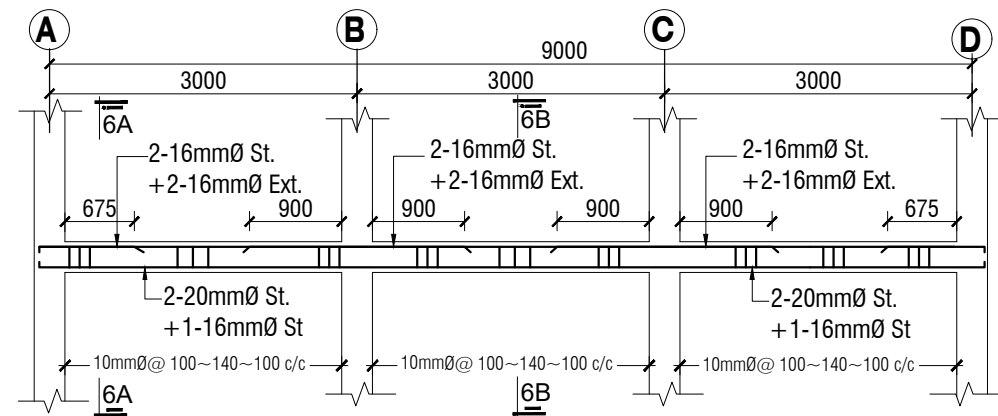
LONG SECTION OF FLOOR BEAM FB4 (300x350)

SCALE: 1:75



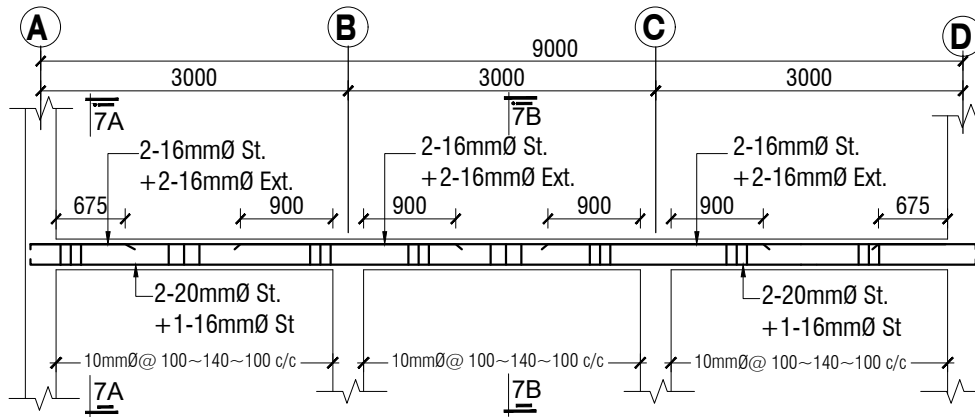
LONG SECTION OF FLOOR BEAM FB5 (300x350)

SCALE: 1:75



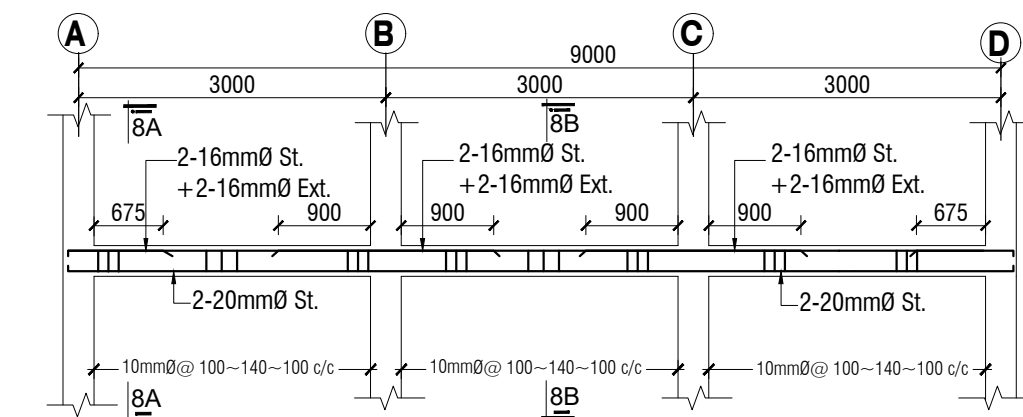
LONG SECTION OF FLOOR BEAM FB6 (300x350)

SCALE: 1:75

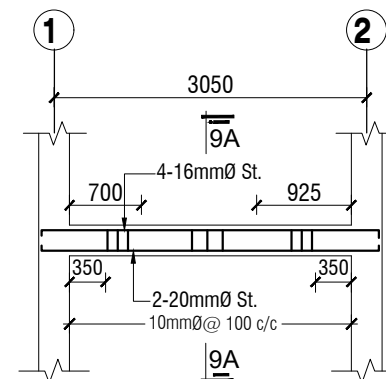


LONG SECTION OF FLOOR BEAM FB7 (300x350)

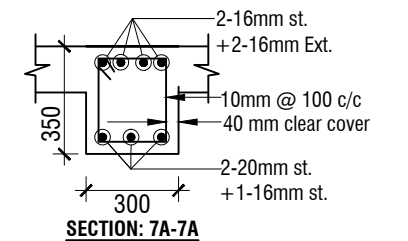
SCALE: 1:75



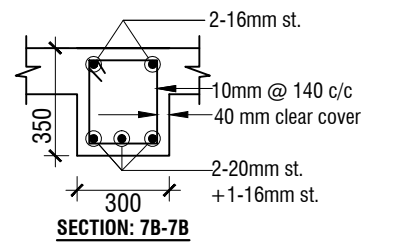
LONG SECTION OF FLOOR BEAM FB8 (300x350)



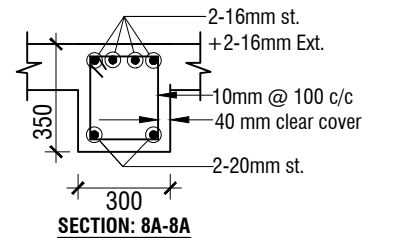
LONG SECTION OF FLOOR BEAM FB9 (300x350)



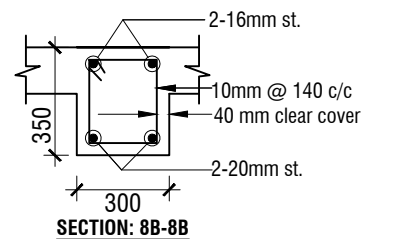
SECTION: 7A-7A



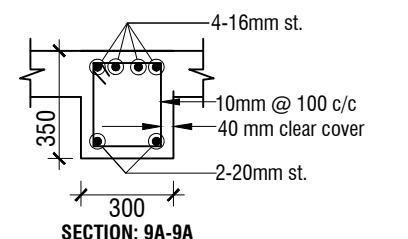
SECTION: 7B-7B



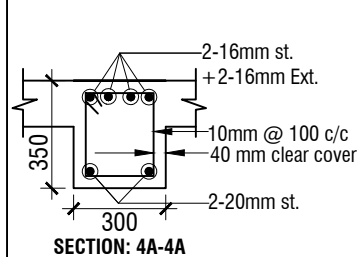
SECTION: 8A-8A



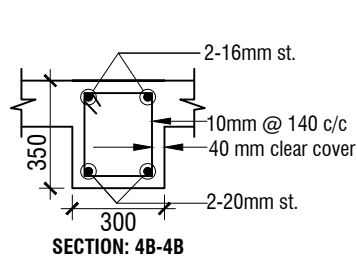
SECTION: 8B-8B



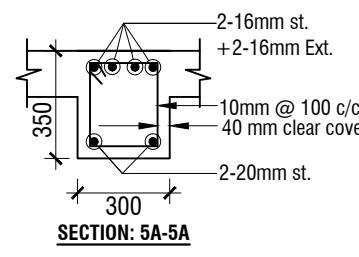
SECTION: 9A-9A



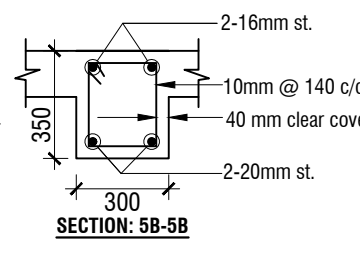
SECTION: 4A-4A



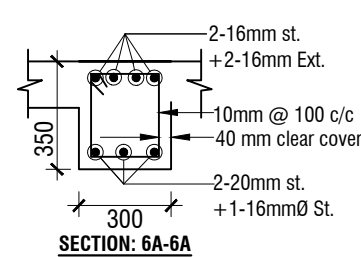
SECTION: 4B-4B



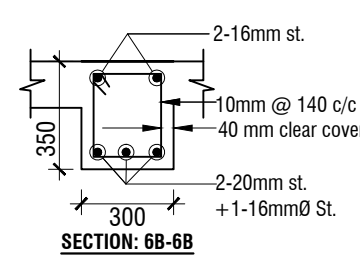
SECTION: 5A-5A



SECTION: 5B-5B

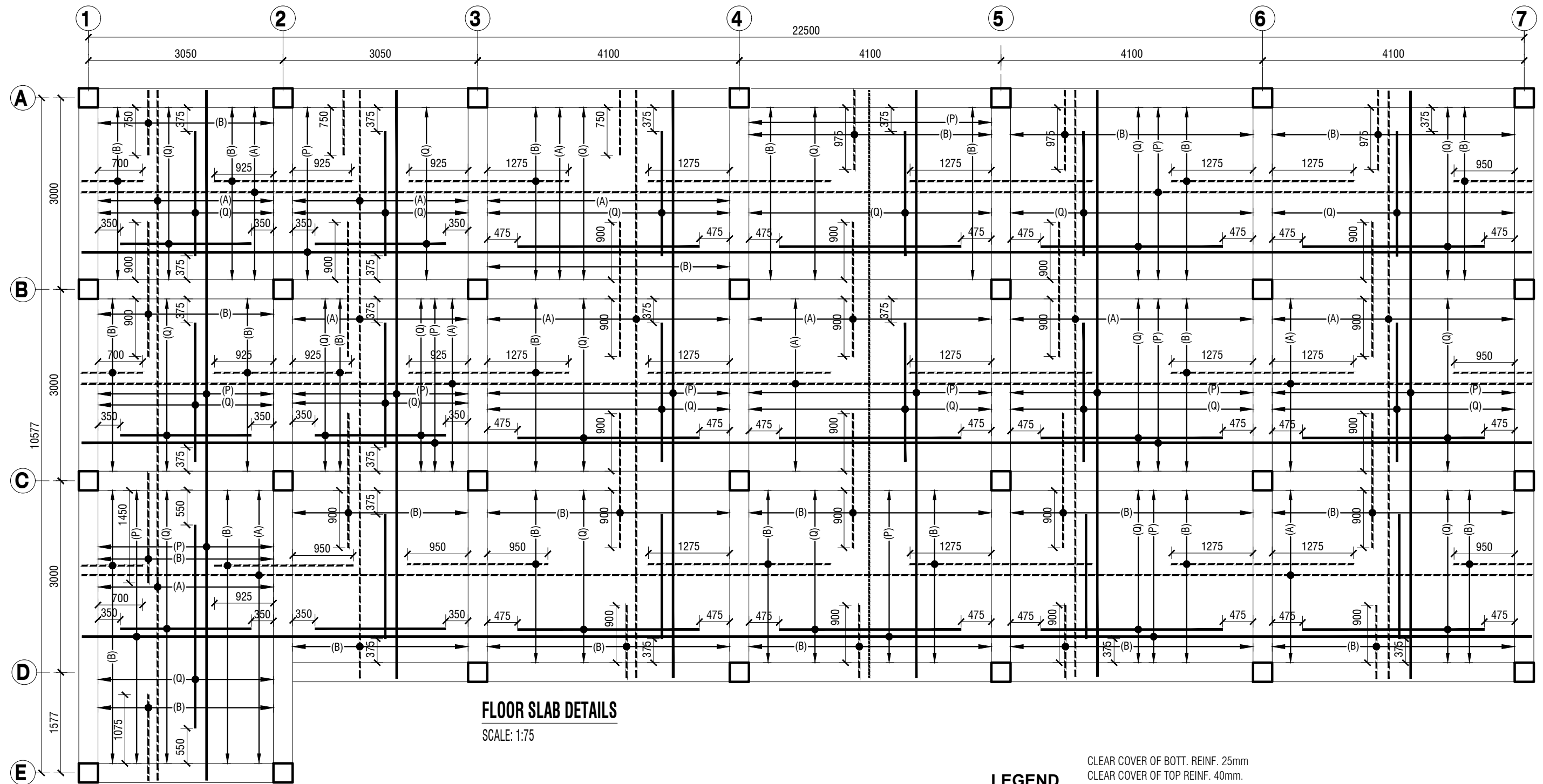


SECTION: 6A-6A



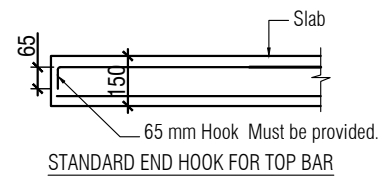
SECTION: 6B-6B

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|--|---|--|--|--|--|
| <p>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</p> | <p>Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban</p> <p>FUNDED BY: USAID</p> | <p>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</p> <p>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</p> | <p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p> | <p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p> | <p>Package No: SCI/MPDS/B11-23-01</p> <p>Revision No:</p> <p>Issued for Tender</p> | <p>GRADE & GRADE BEAM DETAILS-2</p> | <p>All Dimension are in Millimeter unless mentioned</p> <p>SUP-03</p> <p>SCALE</p> <p>AS SHOWN</p> |



FLOOR SLAB DETAILS

SCALE: 1:75





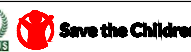
LEGEND

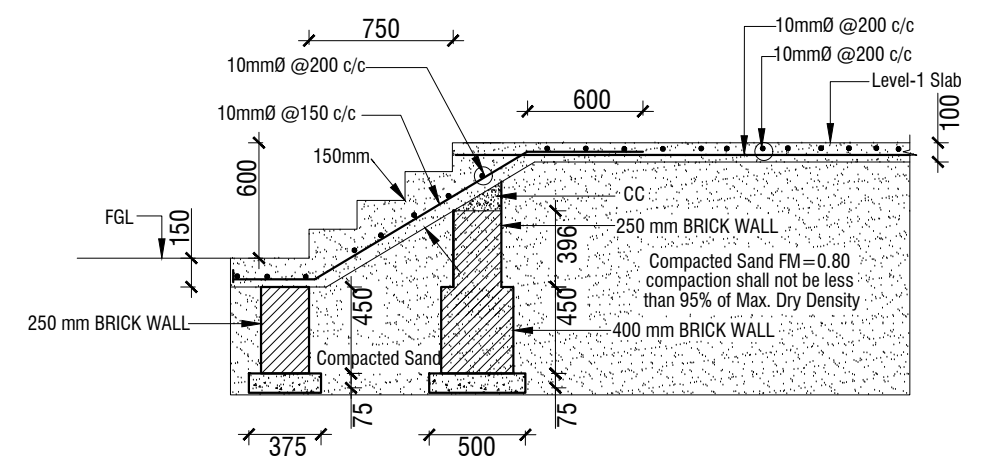
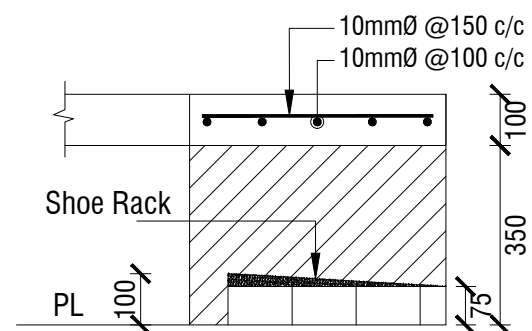
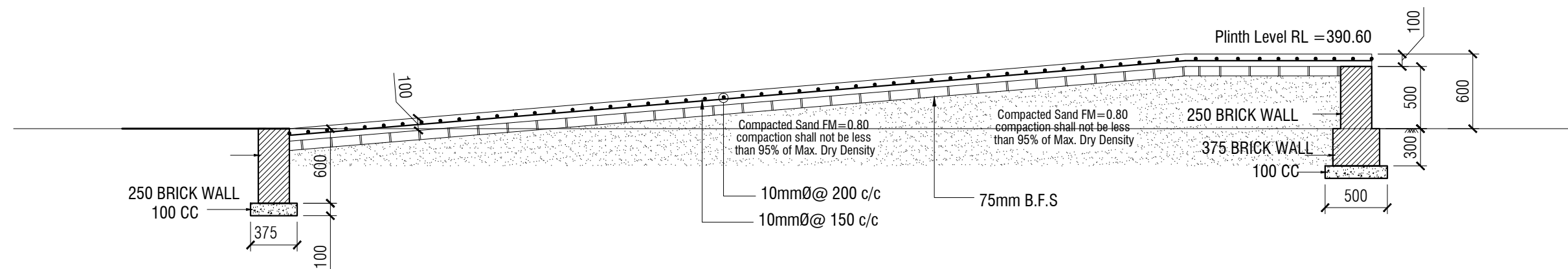
| | |
|---|---|
| Bottom Bars: P= 10mmØ-240mm c/c Q= 10mmØ-240mm c/c Alt with (A) | Top Bars: A=10mmØ-280mm c/c B= 10mmØ-280mm c/c Alt with (P) |
| T= Slab Thickness in mm | |





SLAB THICKNESS MARKED AS T=150mm, OTHERWISE MENTIONED.

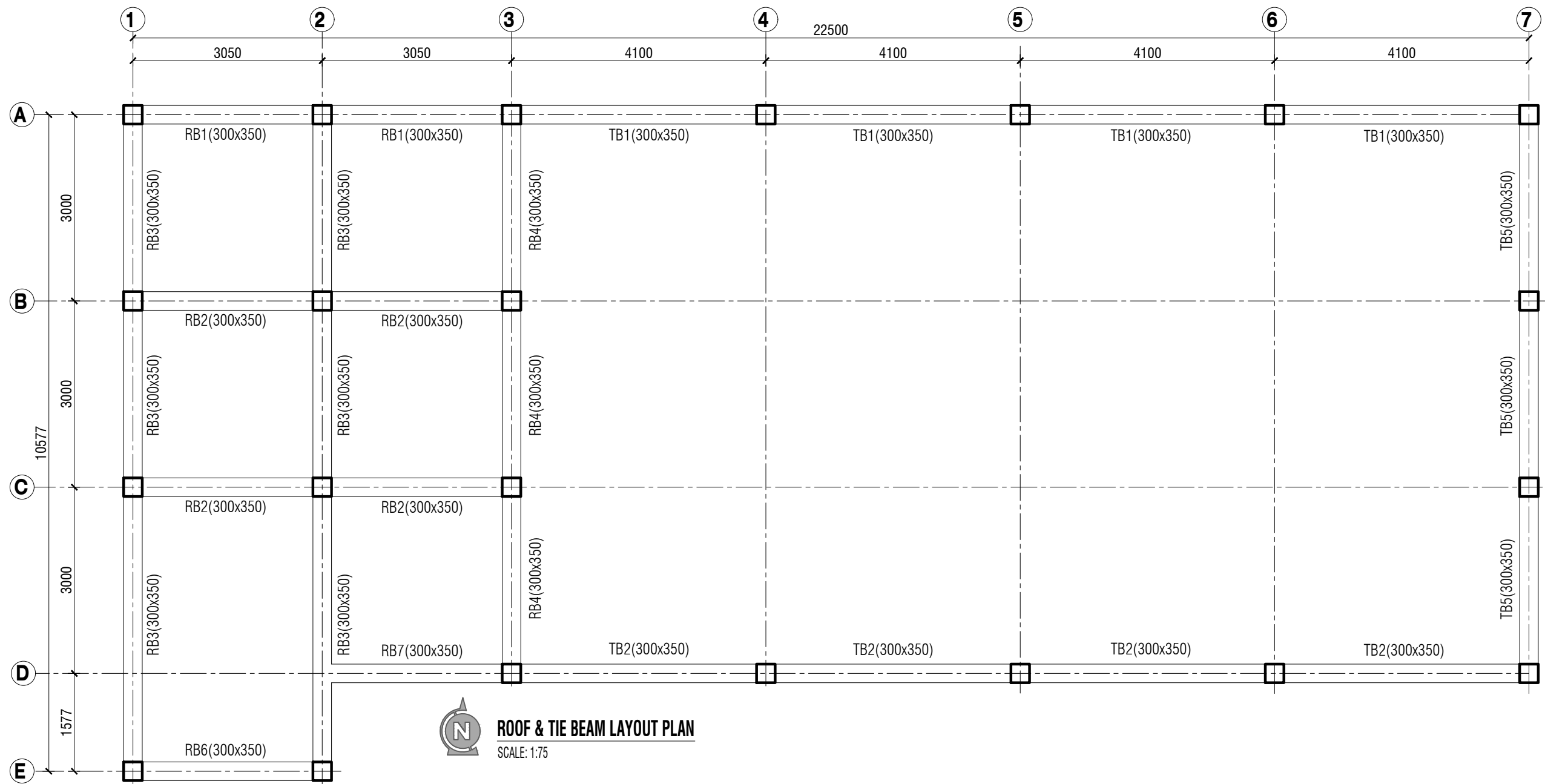
INDICATES TOP REINFORCEMENT.

INDICATES BOTTOM REINFORCEMENT.




| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|--|---|--|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | FLOOR SLAB DETAILS All Dimension are in Millimeter unless mentioned | SUP-04 SCALE AS SHOWN |

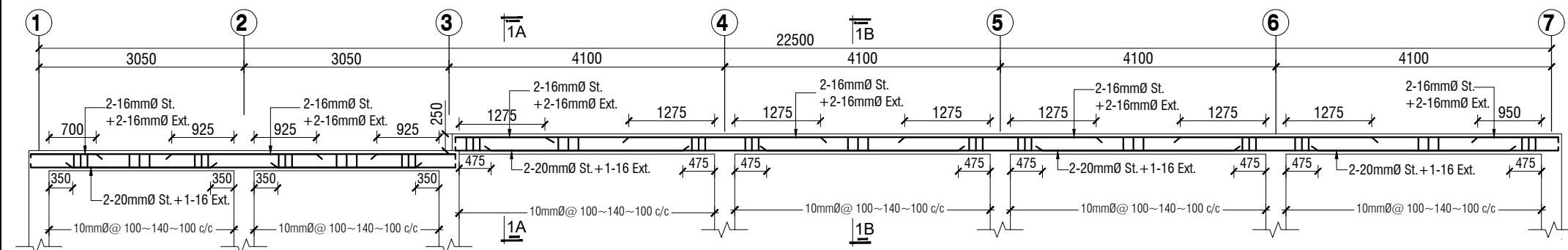


| NAME OF PROJECT: | | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | | DRAWING TITLE: | | SHEET NO: |
|--|--|--|--|--|---|--|--------------------------------|---|---|-----------|
| <div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div> | | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | <div>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</div> | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | <div>Ramp Details</div> | All Dimension are in Millimeter unless mentioned | <div>SUP-05</div> <div>SCALE</div> <div>AS SHOWN</div> | |



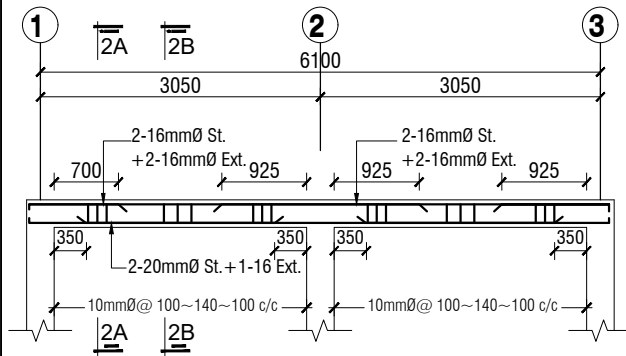
ROOF & TIE BEAM LAYOUT PLAN
SCALE: 1:75

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|--|--|---|---|--|---|--|
| <div></div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | ROOF & TIE BEAM LAYOUT PLAN | All Dimension are in Millimeter unless mentioned | <div>SUP-06</div> <div>SCALE</div> <div>AS SHOWN</div> |

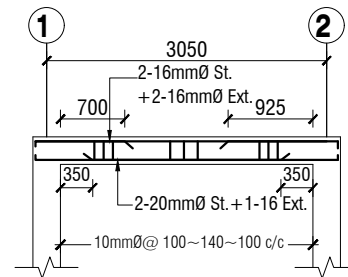


LONG SECTION OF ROOF BEAM RB1 (300x350)

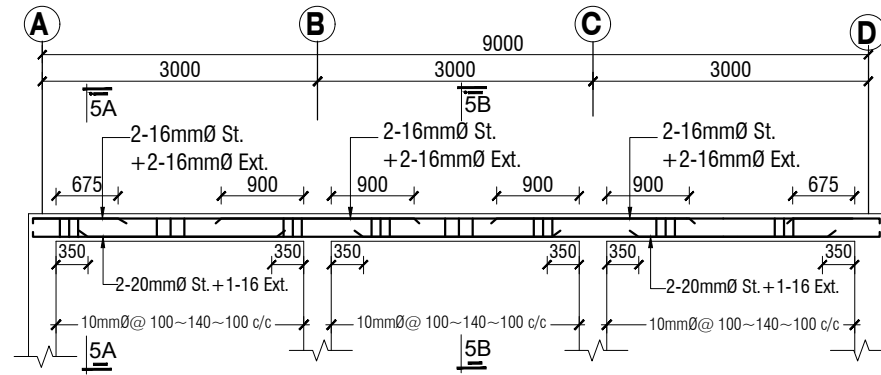
LONG SECTION OF TIE BEAM TB1 (300x350)



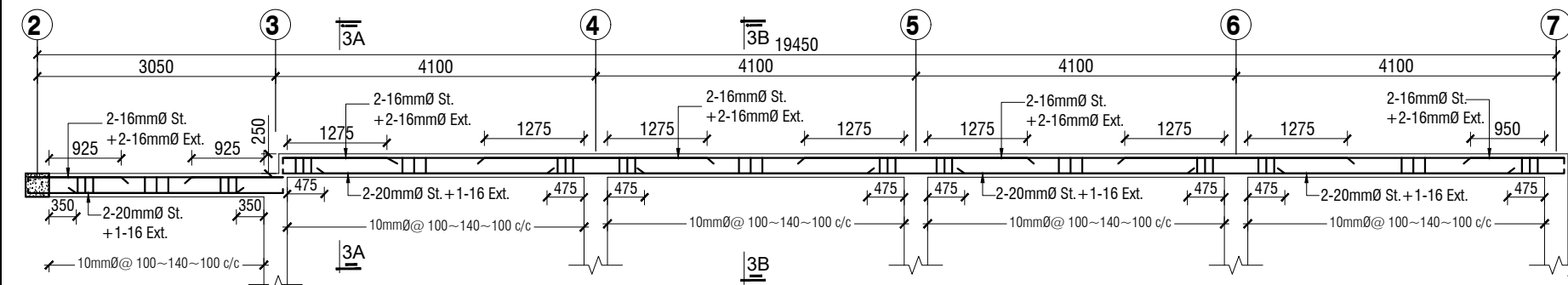
LONG SECTION OF ROOF BEAM RB2 (300x350)



LONG SECTION OF ROOF BEAM RB6 (300x350)

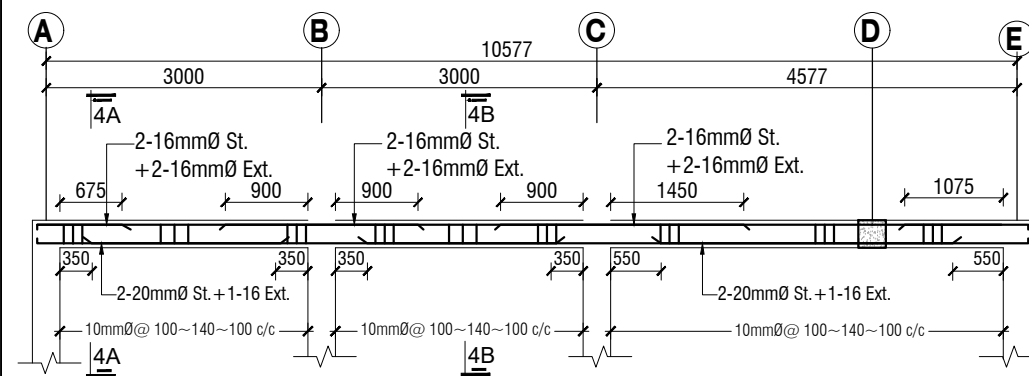


LONG SECTION OF ROOF BEAM RB4 (300x350)



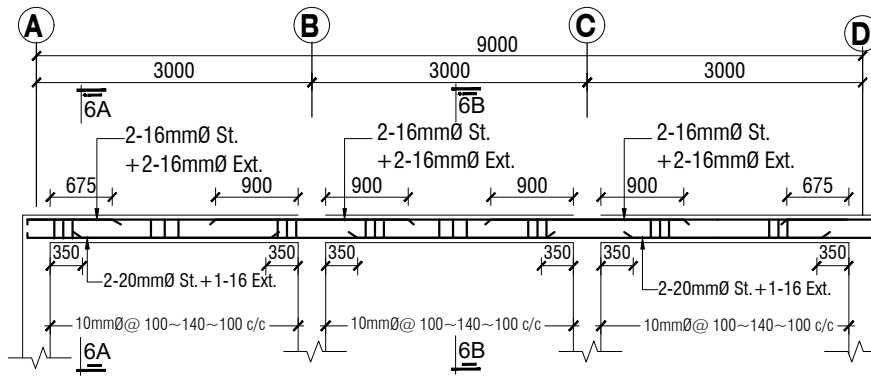
LONG SECTION OF ROOF BEAM RB7 (300x350)

LONG SECTION OF TIE BEAM TB2 (300x350)



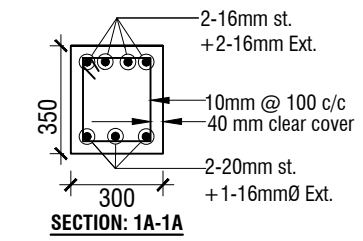
LONG SECTION OF ROOF BEAM RB3 (300x350)

SCALE: 1:75

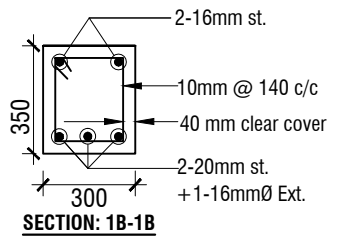


LONG SECTION OF TIE BEAM TB5 (300x350)

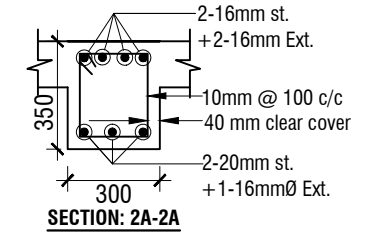
SCALE: 1:75



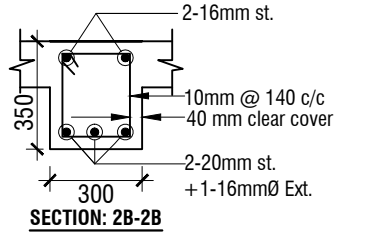
SECTION: 1A-1A



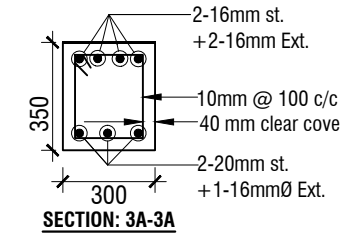
SECTION: 1B-1B



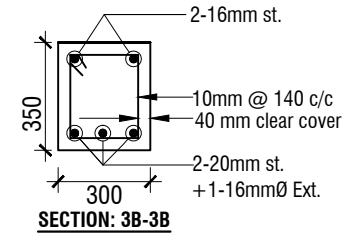
SECTION: 2A-2A



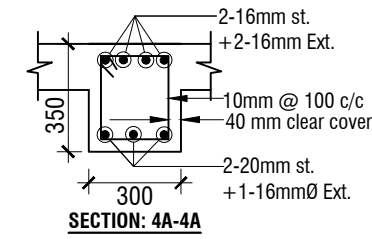
SECTION: 2B-2B



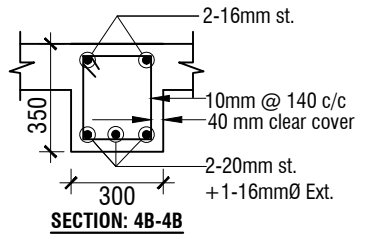
SECTION: 3A-3A



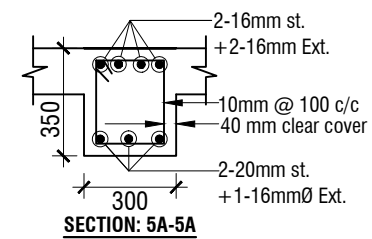
SECTION: 3B-3B



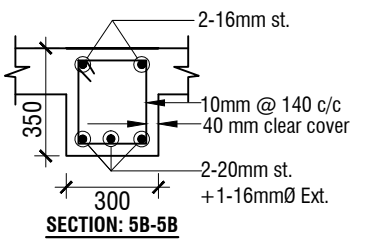
SECTION: 4A-4A



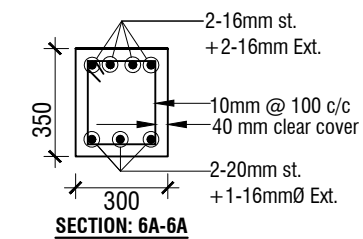
SECTION: 4B-4B



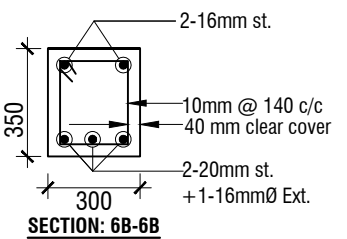
SECTION: 5A-5A





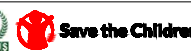
SECTION: 5B-5B

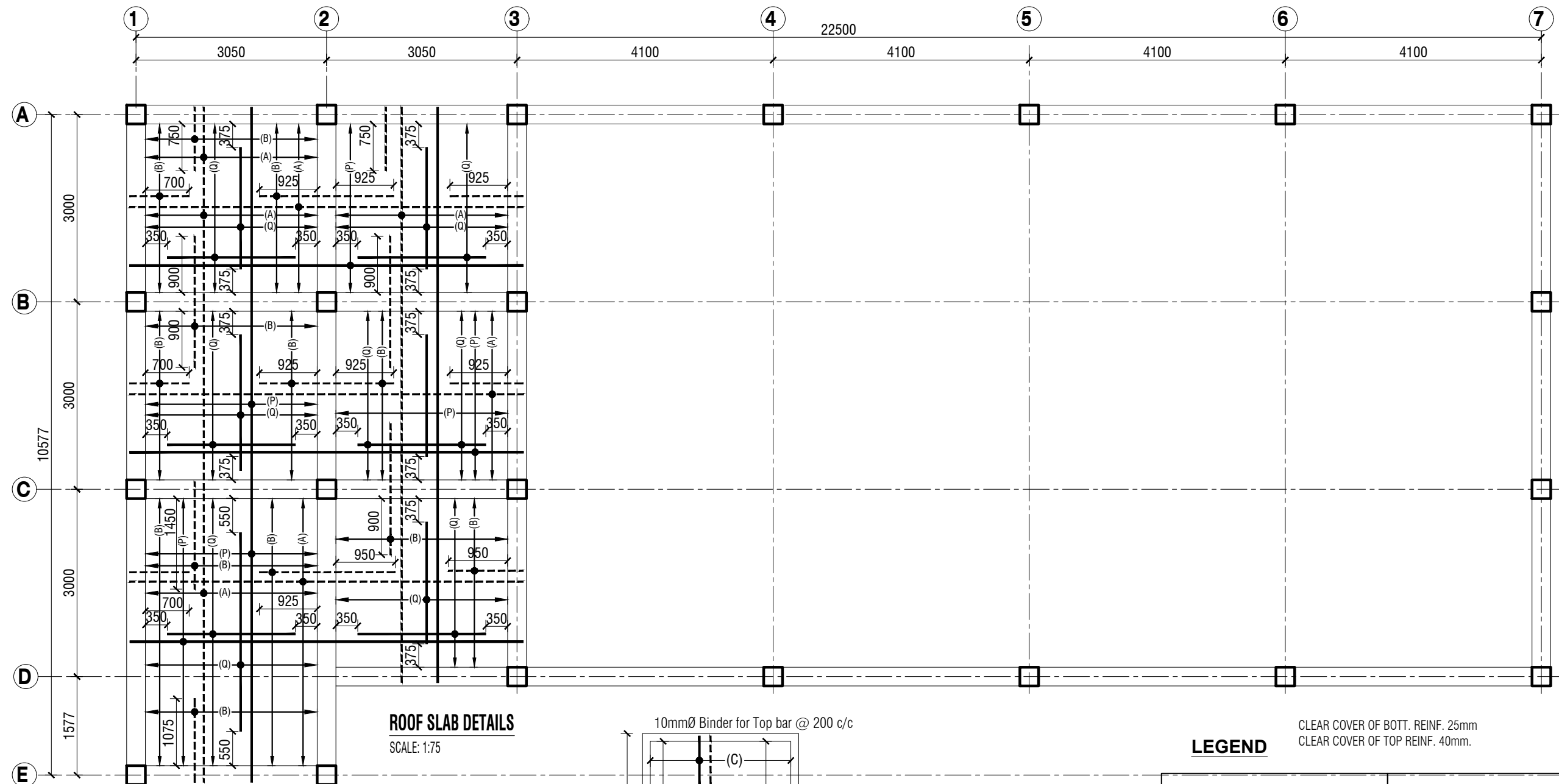


SECTION: 6A-6A

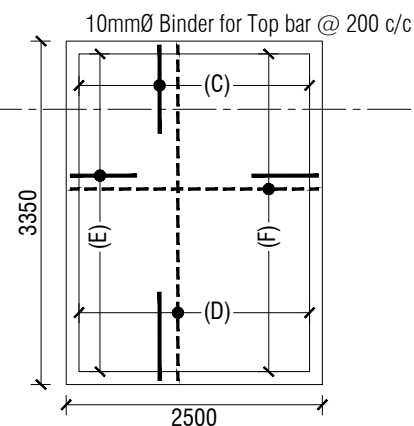


SECTION: 6B-6B

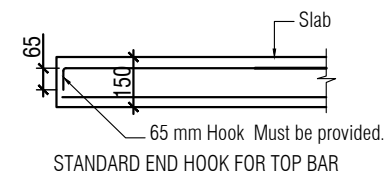
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|---|---|--|--|---|--|
|    <p>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</p> | <p>Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban</p> <p>FUNDED BY: USAID</p> | <p>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</p> <p>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</p> | <p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p> | <p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p> | <p>Package No: SCI/MPDS/B11-23-01</p> <p>Revision No:</p> <p>Issued for Tender</p> | <p>ROOF & TIE BEAM DETAILS</p> <p>All Dimension are in Millimeter unless mentioned</p> | <p>SUP-07</p> <p>SCALE</p> <p>AS SHOWN</p> |



ROOF SLAB DETAILS
SCALE: 1:75



BATTERY ROOM SLAB DETAILS



LEGEND

Bottom Bars:
P= 10mmØ-240mm c/c
Q= 10mmØ-240mm c/c Alt with (A)
D= 10mmØ -160mm c/c
F= 10mmØ-160mm c/c

Top Bars:
A=10mmØ-280mm c/c
B= 10mmØ-280mm c/c Alt with (P)
E= 10mmØ-130mm c/c
C= 10mmØ-140mm c/c

T = Slab Thickness in mm


CLEAR COVER OF BOTT. REINF. 25mm
CLEAR COVER OF TOP REINF. 40mm.

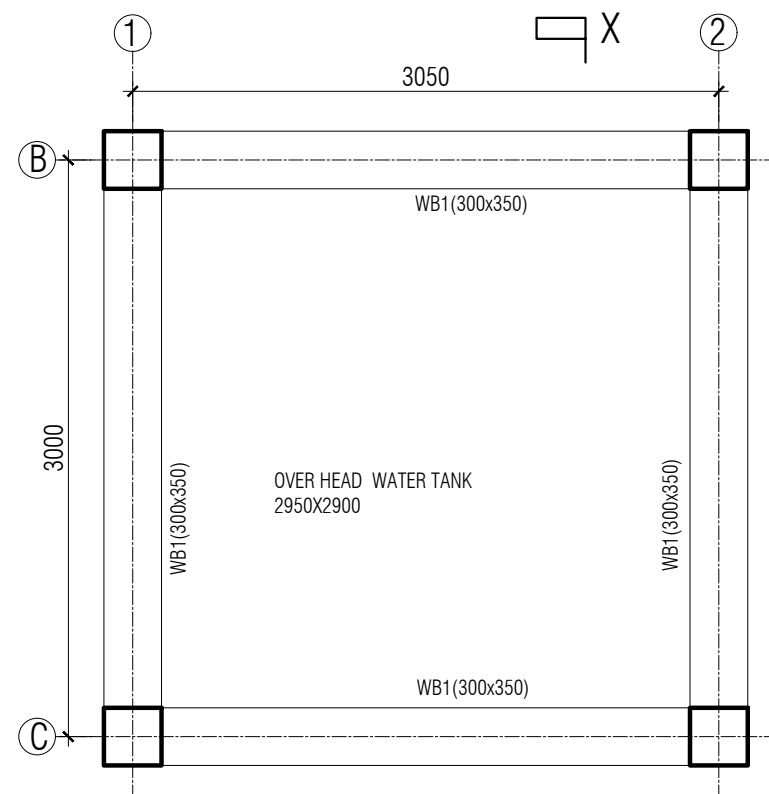
SLAB THICKNESS MARKED AS T=125mm, OTHERWISE MENTIONED.

INDICATES TOP REINFORCEMENT.

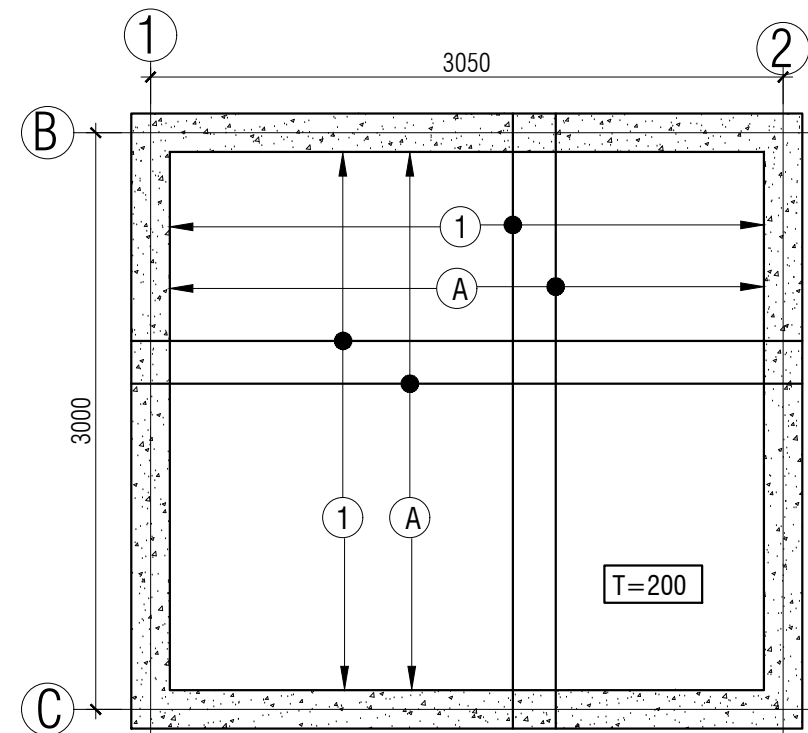
INDICATES BOTTOM REINFORCEMENT.



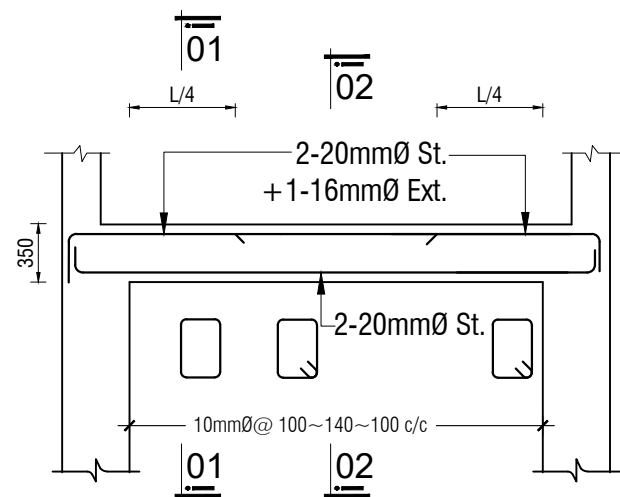
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|--|--|---|---|---|---|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | ROOF SLAB DETAILS All Dimension are in Millimeter unless mentioned | SUP-08 SCALE AS SHOWN |



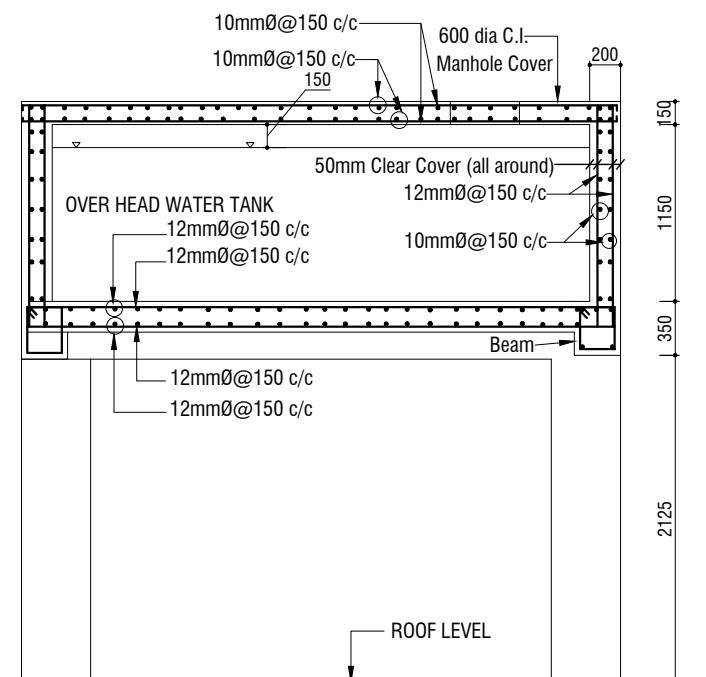
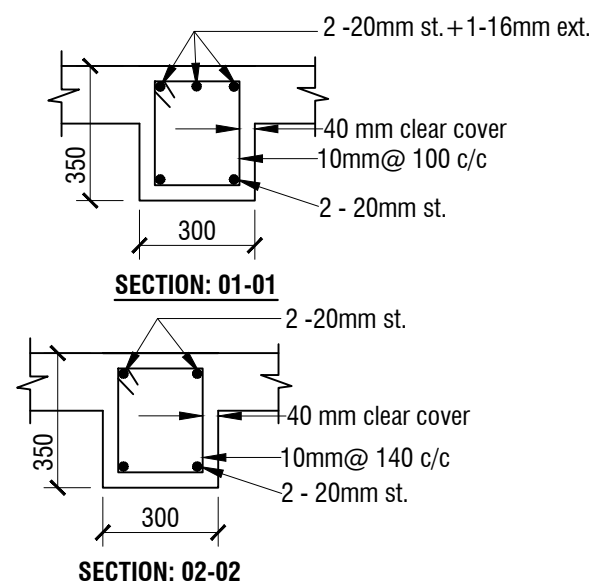
**OVERHEAD WATER TANK BOTTOM SLAB
BEAM LAYOUT PLAN**
SCALE: 1:40



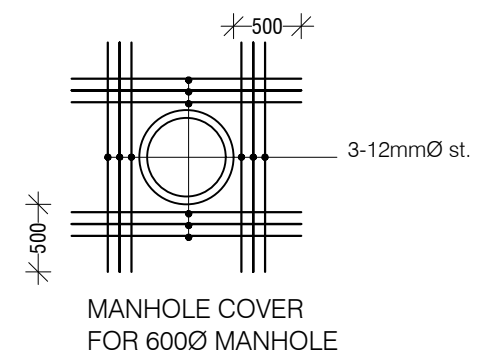
**OVERHEAD WATER TANK BOTTOM SLAB
BEAM LAYOUT PLAN**
SCALE: 1:40






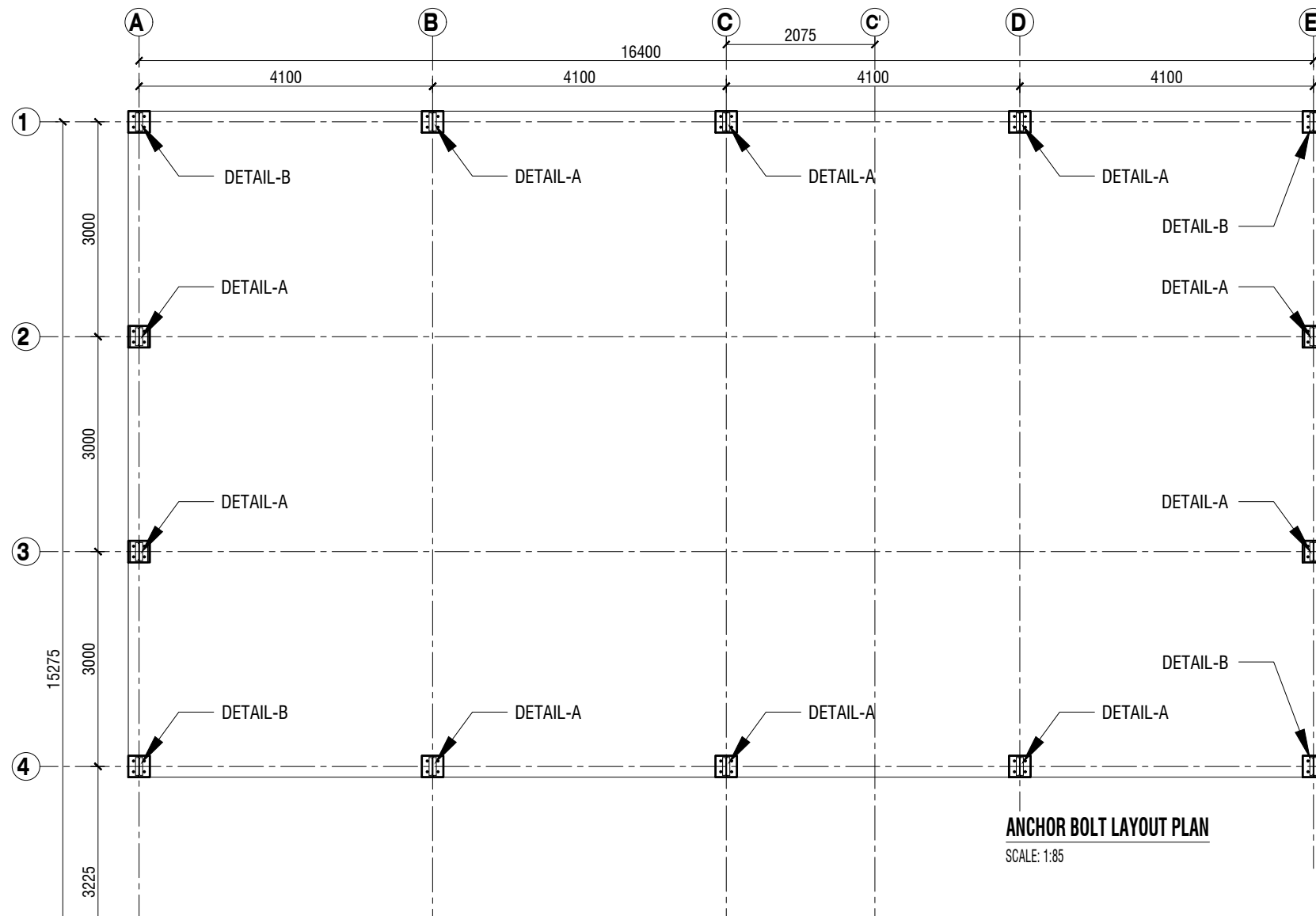
LONG SEC. OF FLOOR BEAM WB-1 (300 X 350)



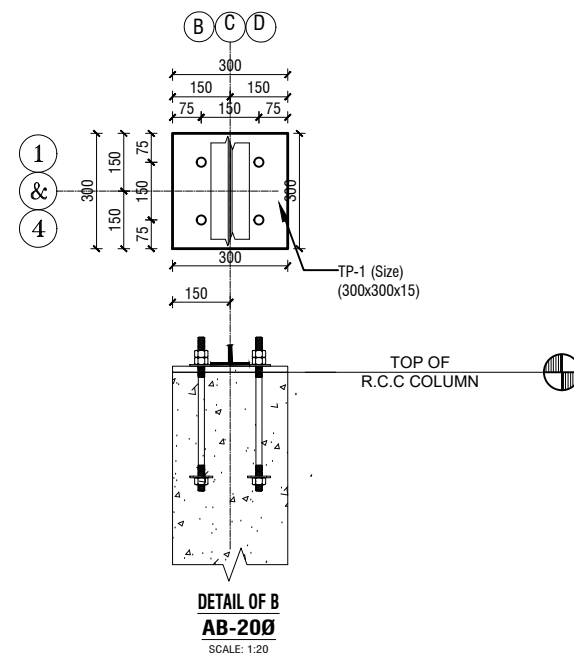
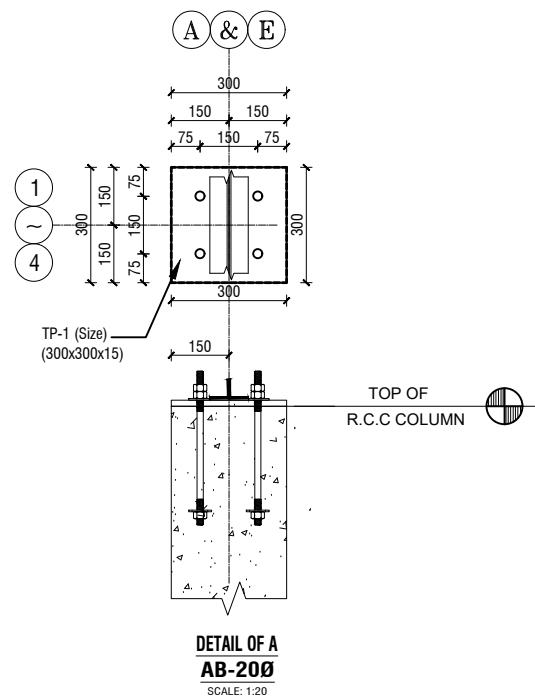
SECTION OF O.H.W.T : X-X



| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|--|--|---|---|---|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | OVER HEAD WATER RESERVOIR DETAIL | All Dimension are in Millimeter unless mentioned SUP-09 SCALE AS SHOWN |



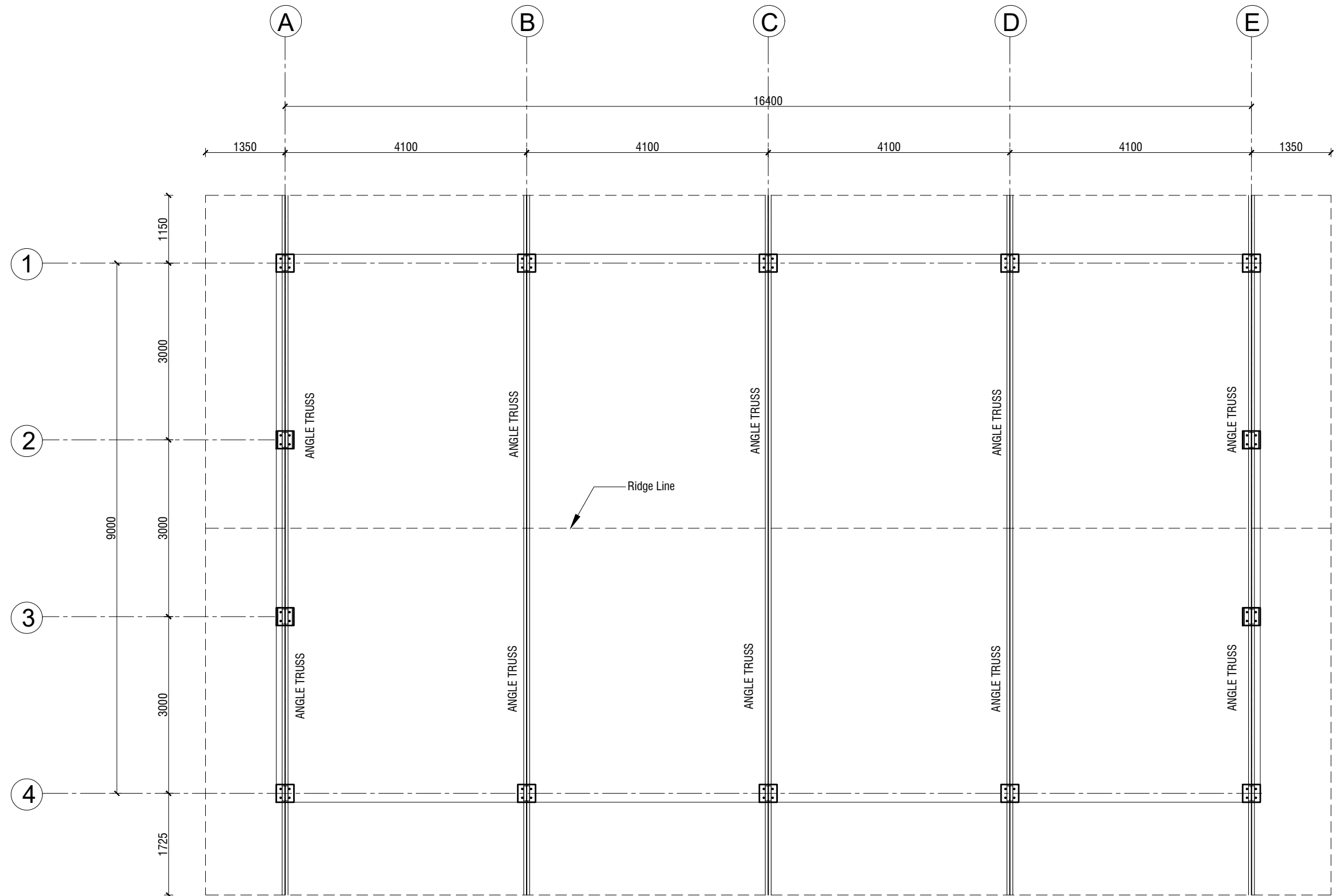
ANCHOR BOLT LAYOUT PLAN
SCALE: 1:85



| ANCHOR ROD DIMENSION AB1 | | | | |
|--------------------------|--------|--------|--------|-------------------|
| DIA (mm) | A (mm) | B (mm) | C (mm) | TOTAL LENGTH (mm) |
| 20 | 75 | 225 | 150 | 450 |

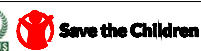


ANCHOR ROD DIMENSION AB1

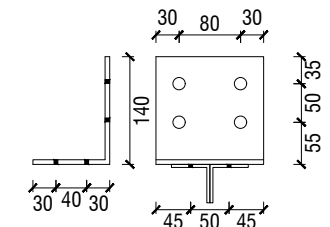
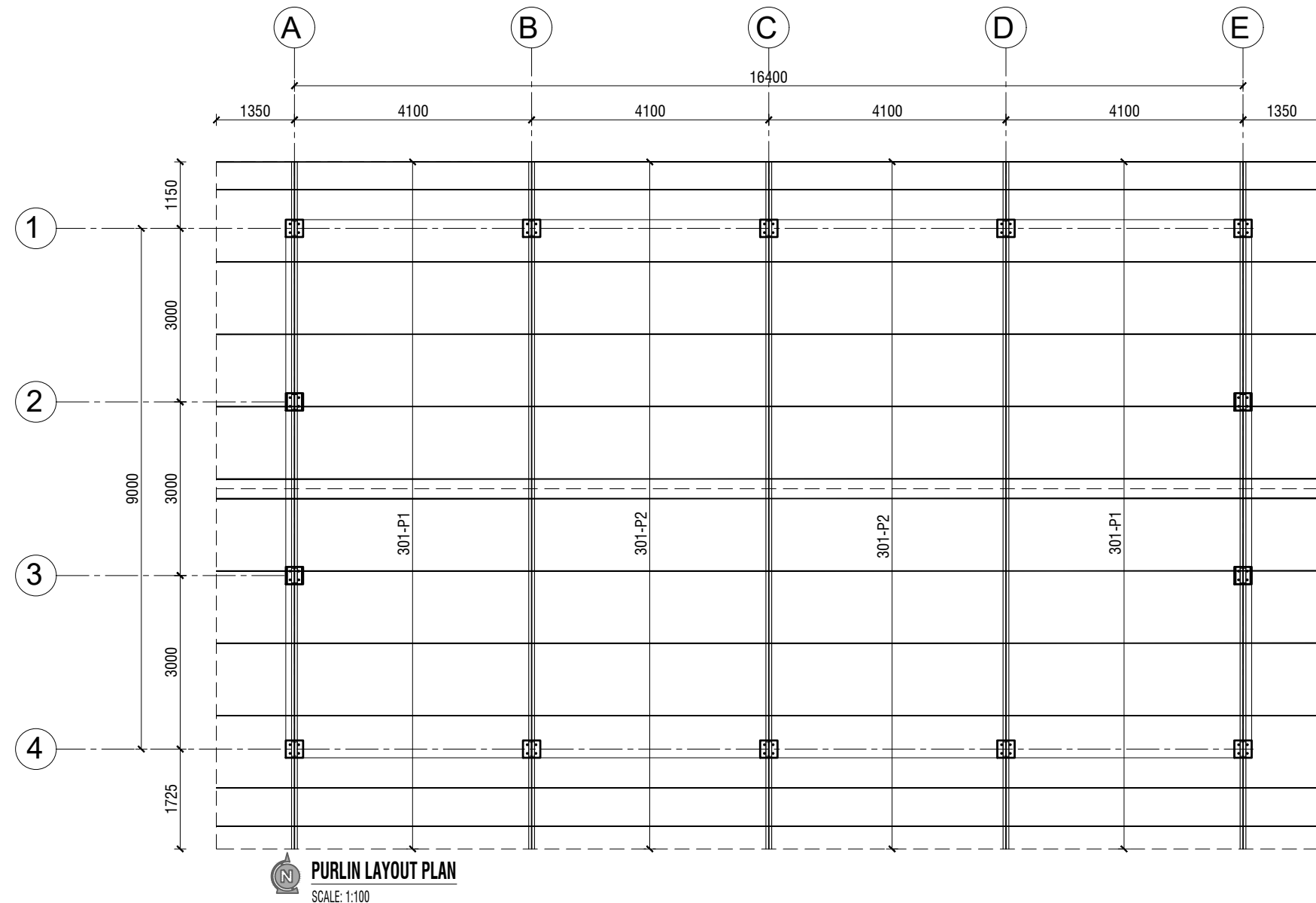
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|---|---|---|--|---|---|---|--|---|
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | ANCHOR BOLT LAYOUT PLAN & DETAIL | All Dimension are in Millimeter unless mentioned | SUP-10 SCALE AS SHOWN |



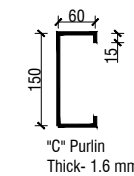
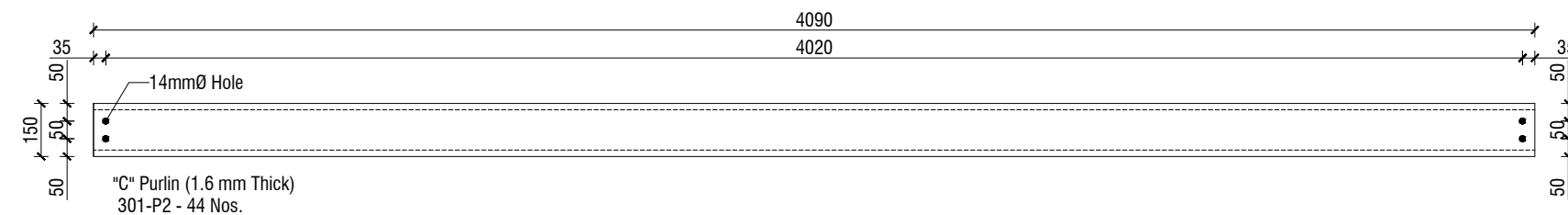
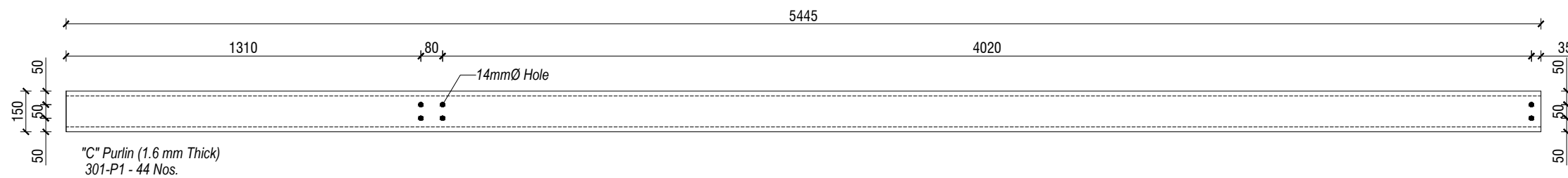
MS ANGLE LAYOUT PLAN

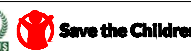


SCALE: 1:75

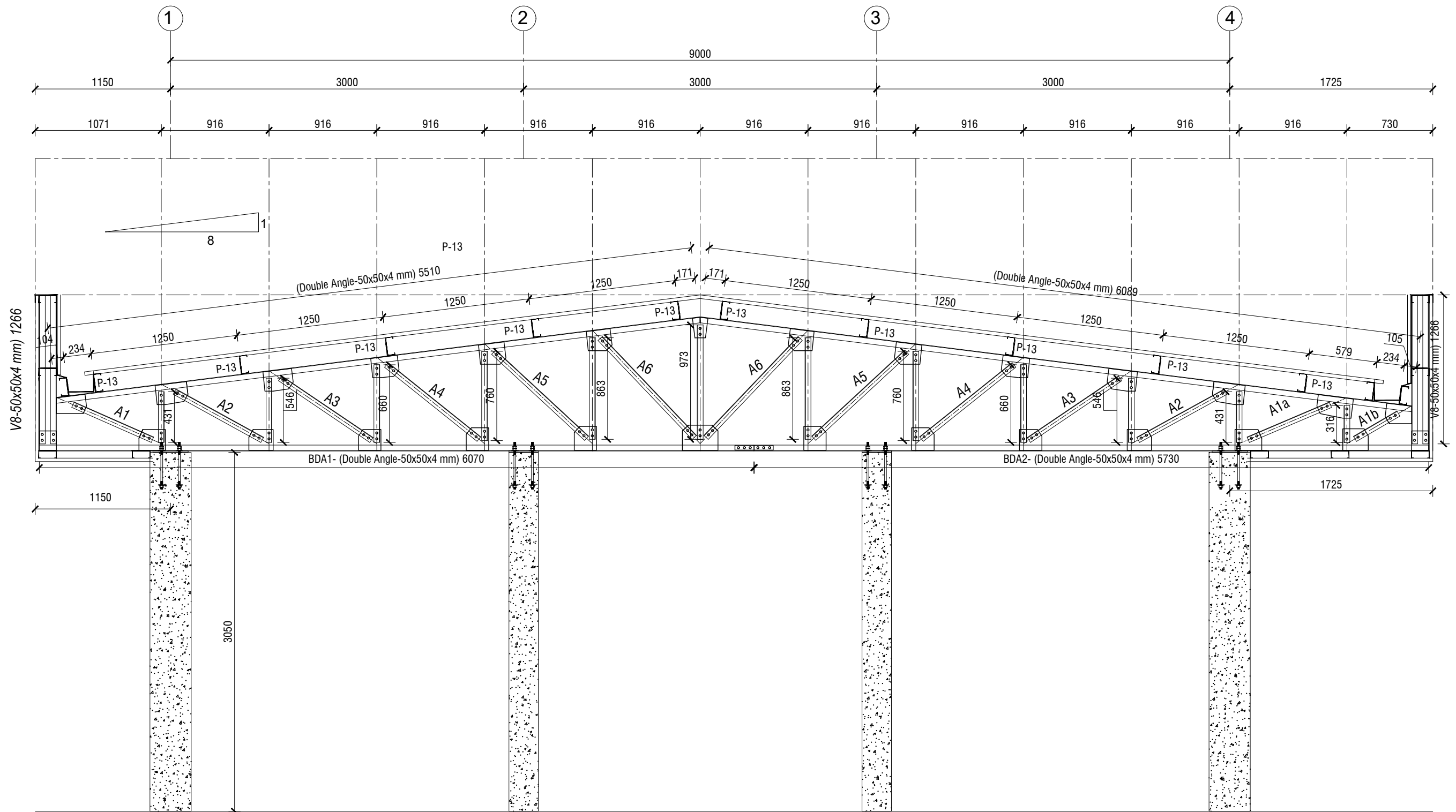
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|--|--|--|---|---|-----------------------------|---|---|
| <div></div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | MS ANGLE LAYOUT PLAN | All Dimension are in Millimeter unless mentioned | SUP-11 SCALE AS SHOWN |






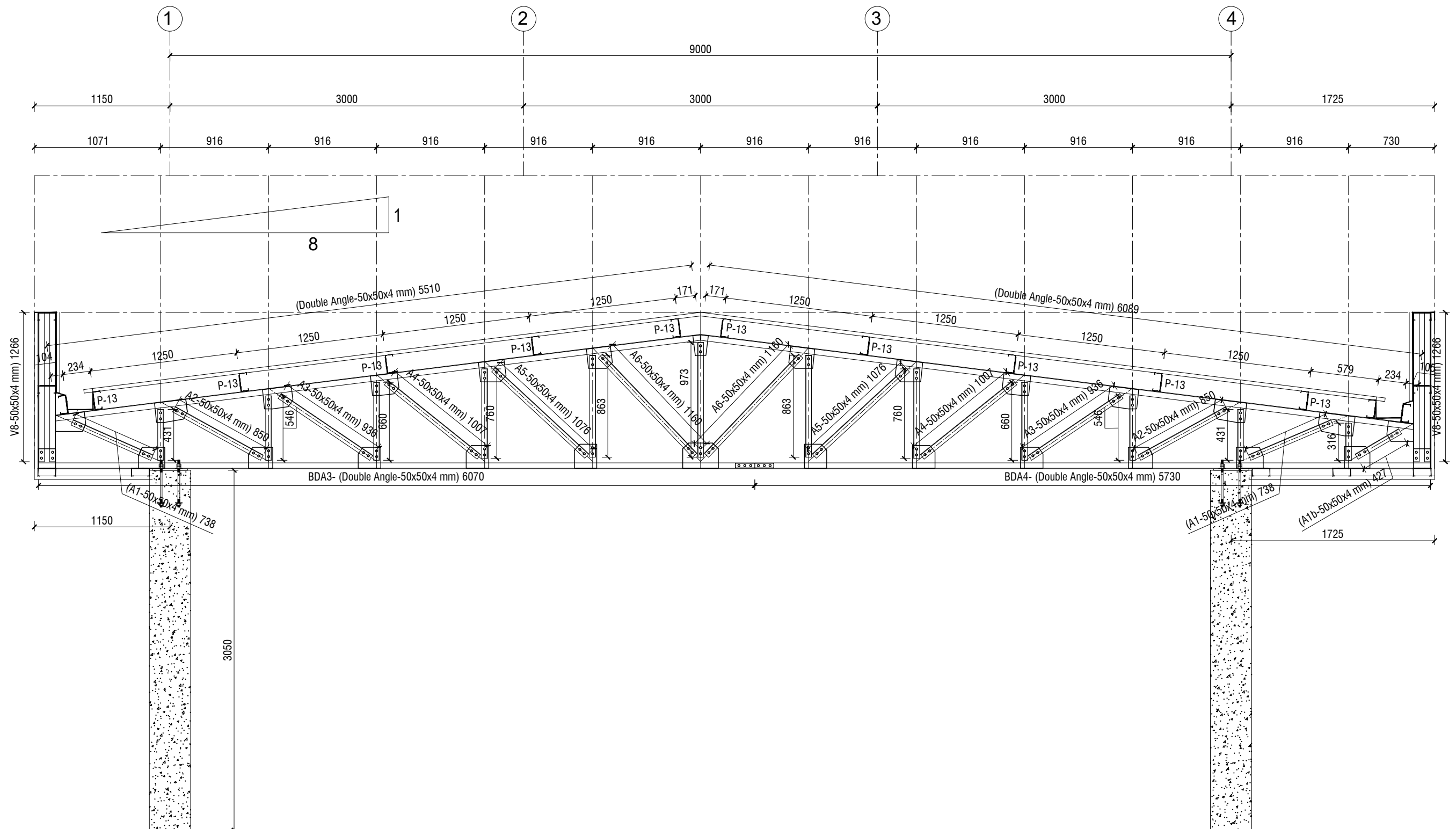
DETAIL OF P-13
8x80x140x140 L-Shape
16mmØ hole for 14mmØ
bolt for P-13 Joint & 14mmØ
hole for 12mmØ bolt for
Purlin Joint.



| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|--|--|--|---|---|--|---|---|
| <div></div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | PURLIN LAYOUT PLAN & DETAIL | All Dimension are in Millimeter unless mentioned | SUP-12 SCALE AS SHOWN |




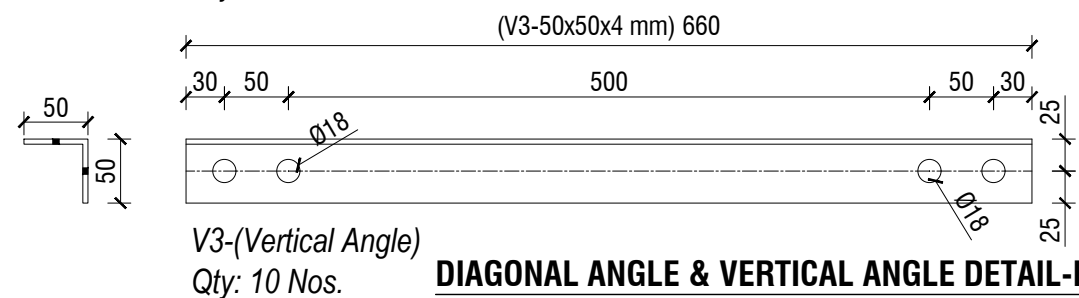
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|---|---|---|--|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | CROSS SECTION @GRID A & E All Dimension are in Millimeter unless mentioned | SUP-13 SCALE AS SHOWN |





CROSS SECTION @ GRID D ~ F

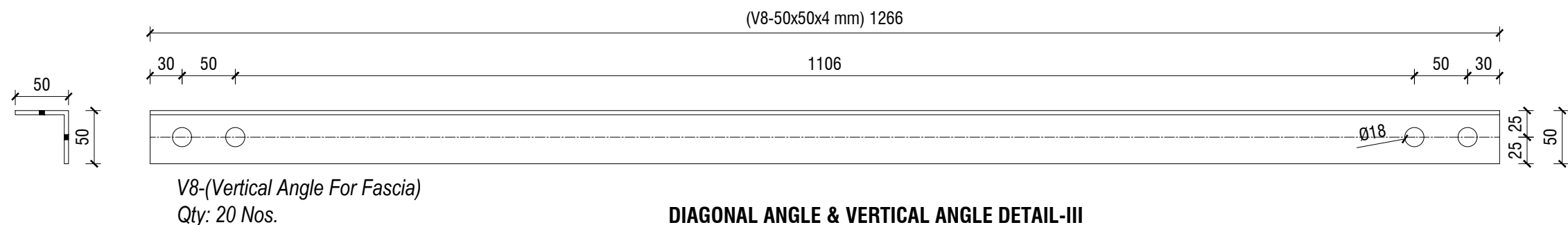
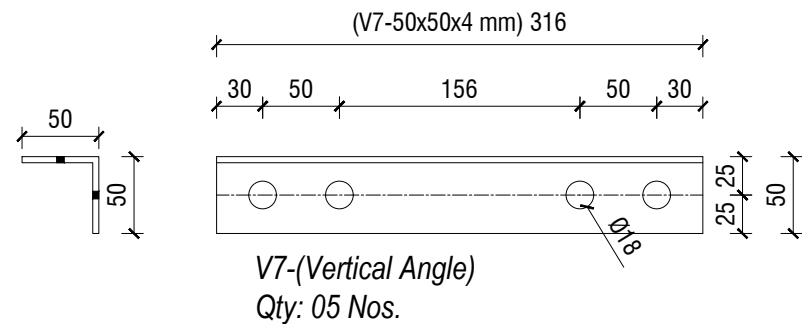
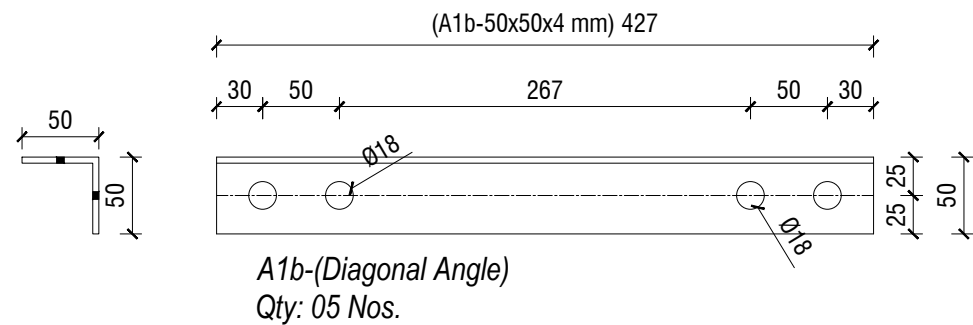
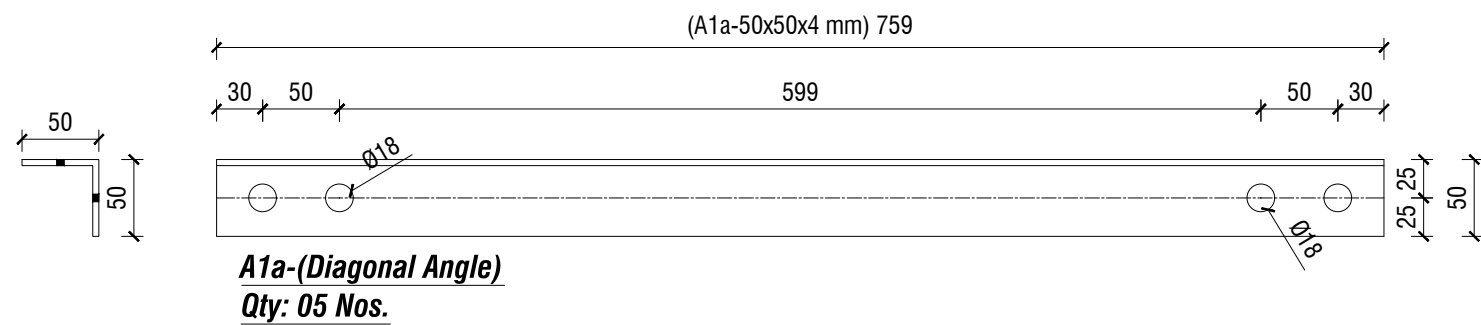
SCALE: 1:35

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|--|--|---|--|--|--|--|
|  <p>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</p> | <p>Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban</p> <p>FUNDED BY: USAID</p> | <p>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</p> <p>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</p> | <p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p> | <p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p> | <p>Package No: SCI/MPDS/B11-23-01</p> <p>Revision No:</p> <p>Issued for Tender</p> | <p>SECTION THROUGH GRID B.C & D</p> | <p>All Dimension are in Millimeter unless mentioned</p> |
| | | | | | | | <p>SUP-14</p> <p>SCALE</p> <p>AS SHOWN</p> |




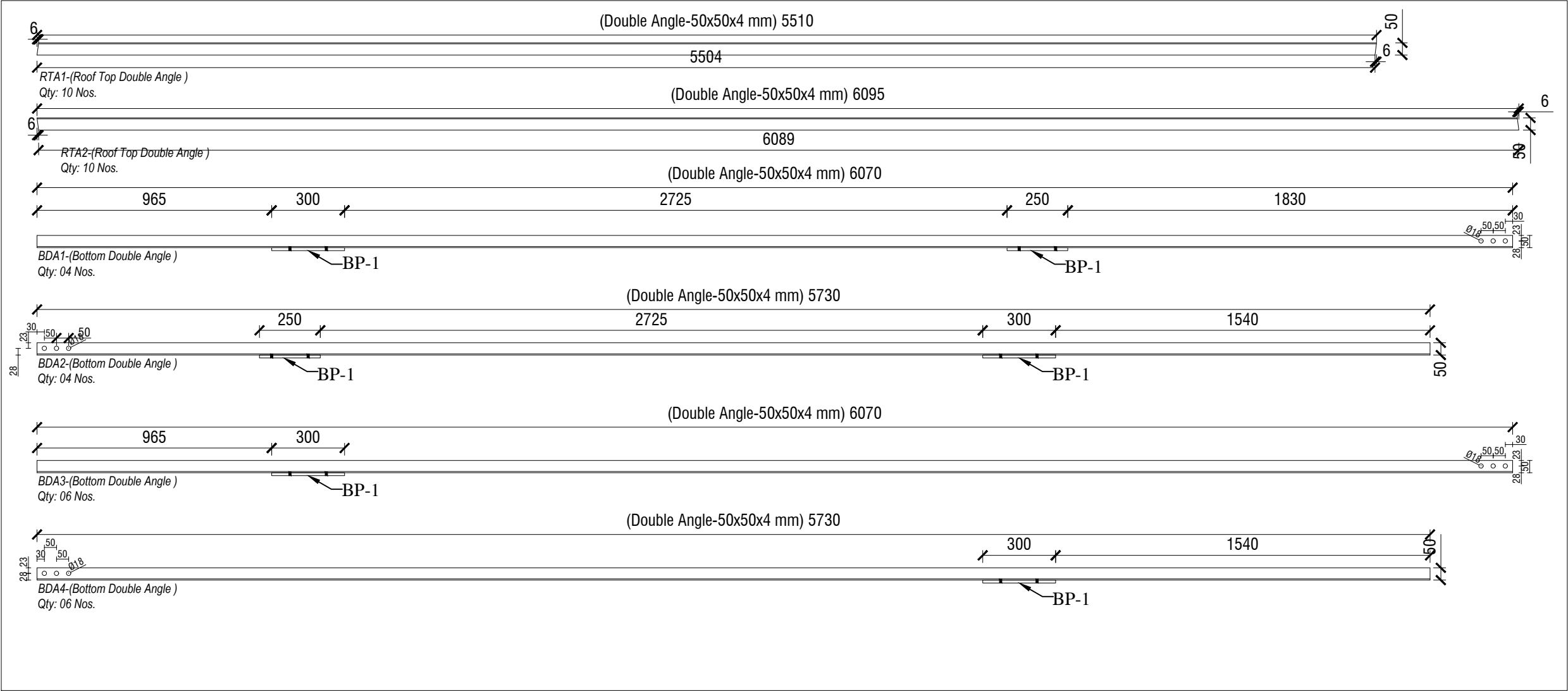
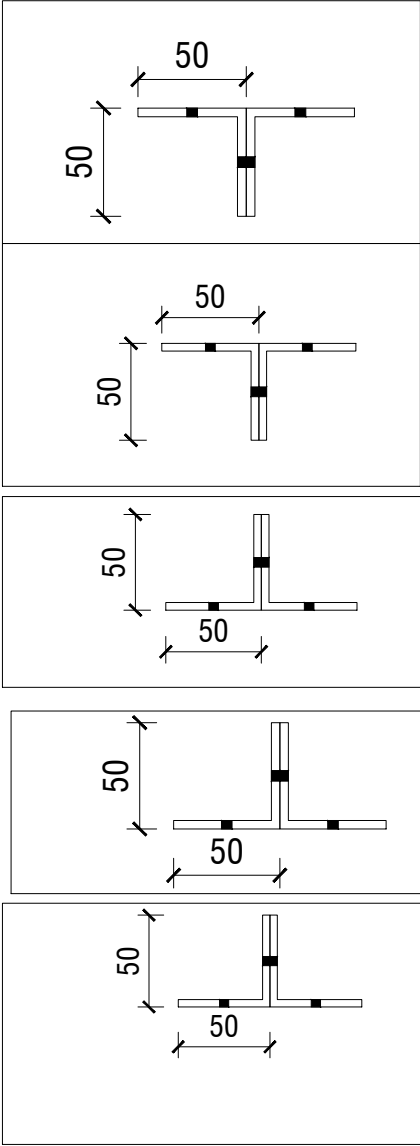
| NAME OF PROJECT: | | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|--|---|--|--|---|---|---|---|--|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED  1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DIAGONAL ANGLE & VERTICAL ANGLE DETAIL-I | All Dimension are in Millimeter unless mentioned | <div>SUP-15</div> <div>SCALE</div> <div>AS SHOWN</div> |




SCALE: 1:6

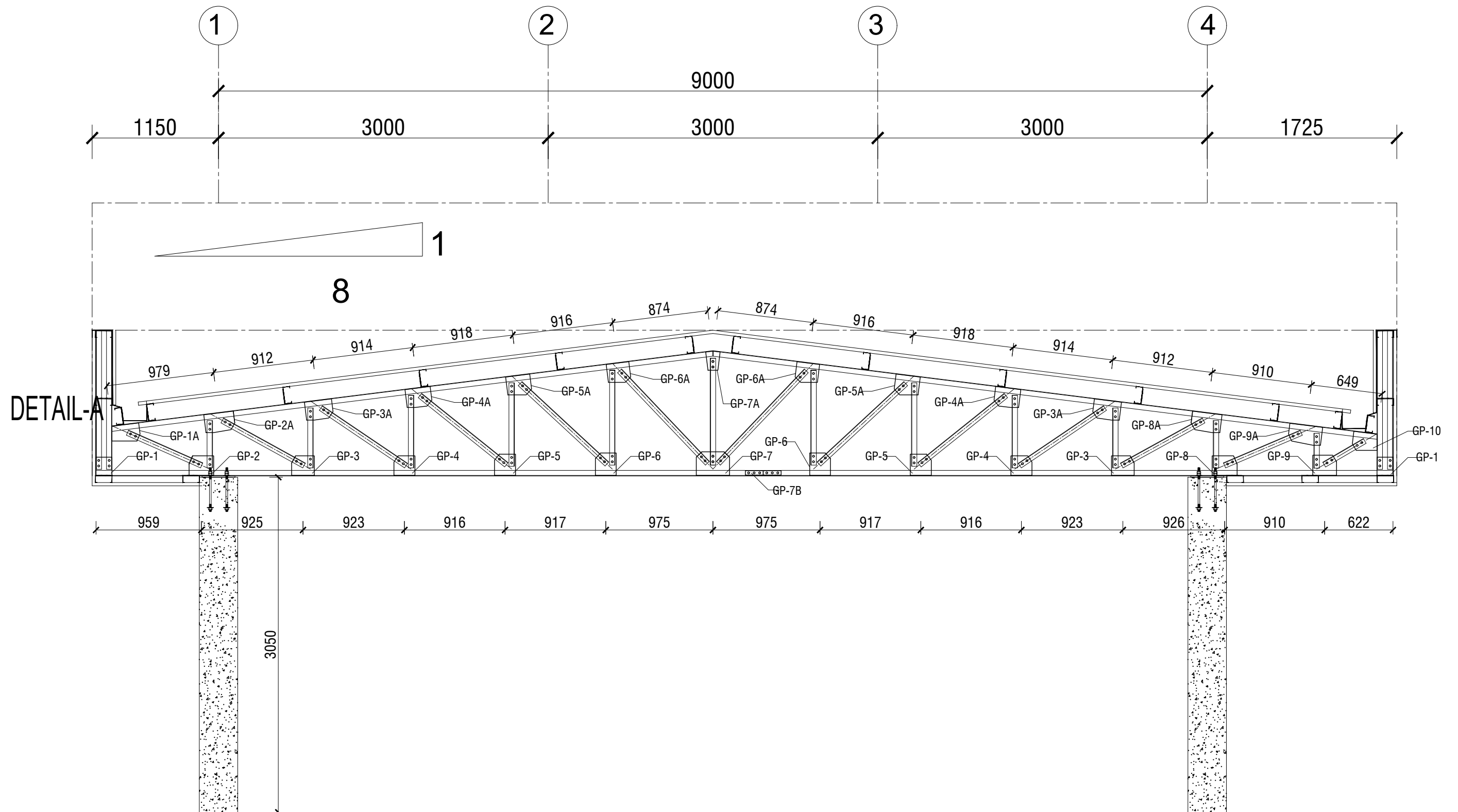


DIAGONAL ANGLE & VERTICAL ANGLE DETAIL-III
SCALE: 1:5


| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|---|---|------------------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DIAGONAL ANGLE & VERTICAL ANGLE DETAIL-III | All Dimension are in Millimeter unless mentioned | SUP-17 SCALE AS SHOWN |

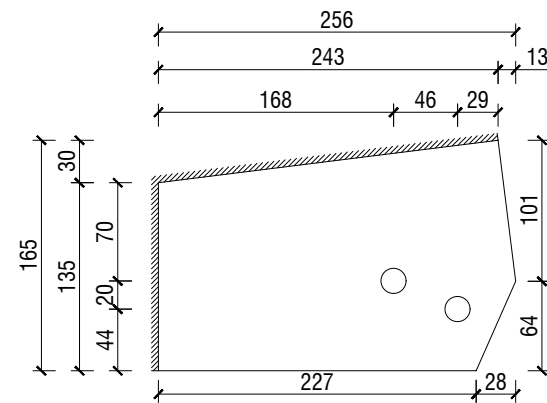


| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|--|--|---|---|---------------------|---|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | DOUBLE ANGLE DETAIL | All Dimension are in Millimeter unless mentioned | SUP-18 SCALE AS SHOWN |

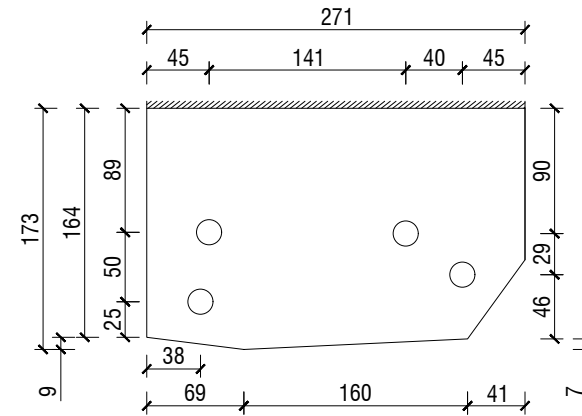


**GUSSET PLATE LOCATIONS
(CROSS SECTION @ GRID C ~ G)**

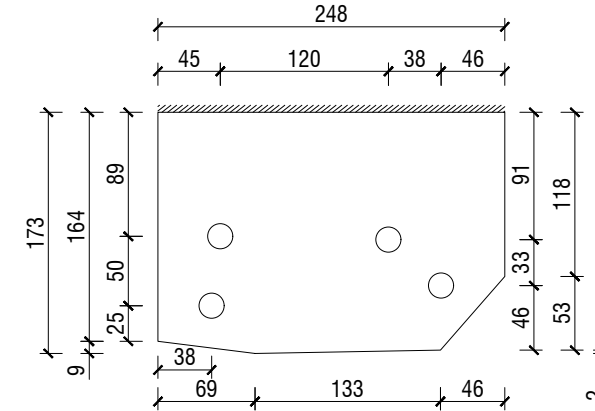
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|--|--|---|---|--|---|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GUSSET PLATE LOCATIONS All Dimension are in Millimeter unless mentioned | SUP-19 SCALE AS SHOWN |



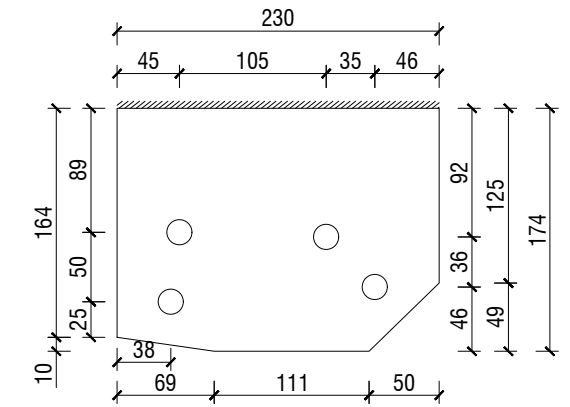
DETAIL OF GP-1A
 R 6x165x256
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 05 Nos.



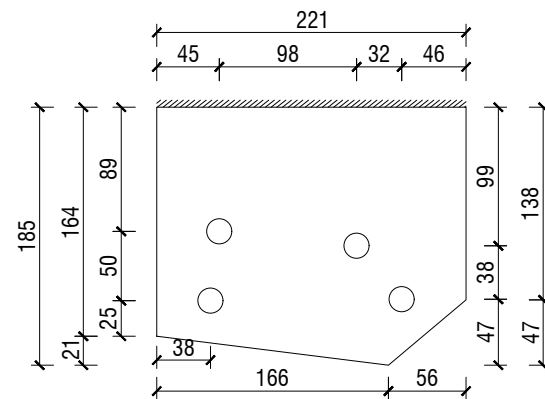
DETAIL OF GP-2A
 R 6x173x271
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 05 Nos.



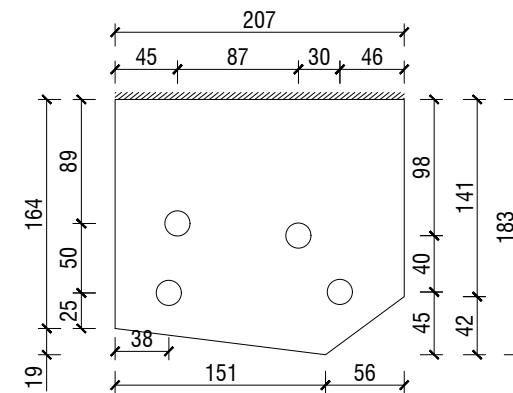
DETAIL OF GP-3A
 R 6x173x248
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 10 Nos.



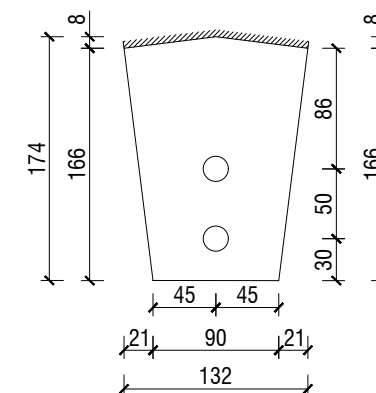
DETAIL OF GP-4A
 R 6x174x230
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 10 Nos.



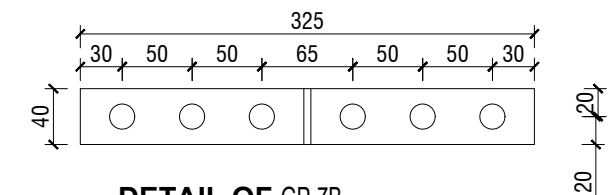
DETAIL OF GP-5A
 R 6x185x221
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 10 Nos.



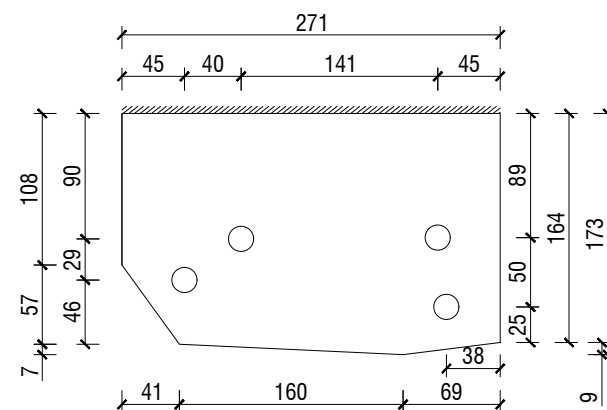
DETAIL OF GP-6A
 R 6x183x207
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 10 Nos.



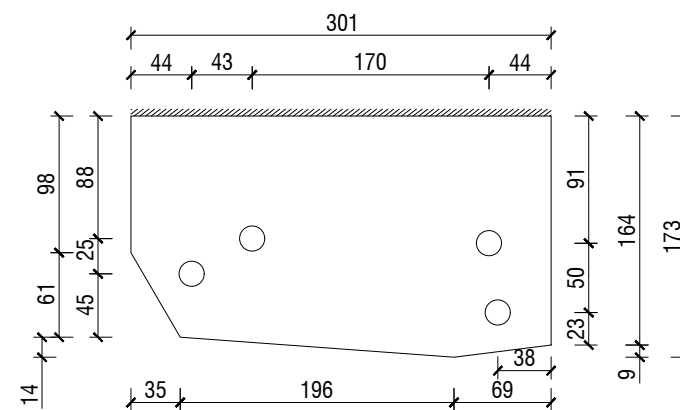
DETAIL OF GP-7A
 R 6x174x132
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 05 Nos.



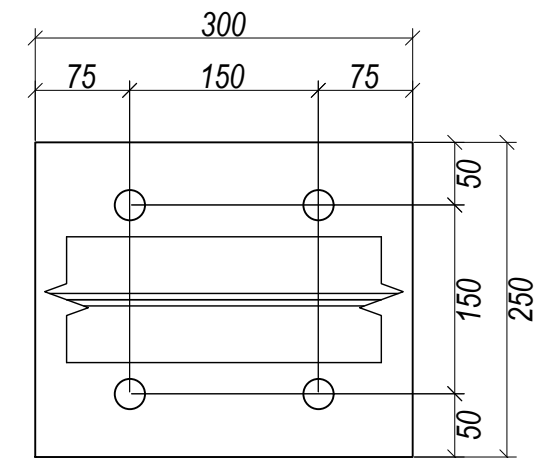
DETAIL OF GP-7B
 R 6x40x325
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 10 Nos.



DETAIL OF GP-8A
 R 6x173x271
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 05 Nos.




DETAIL OF GP-9A
 R 6x173x301
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 05 Nos.

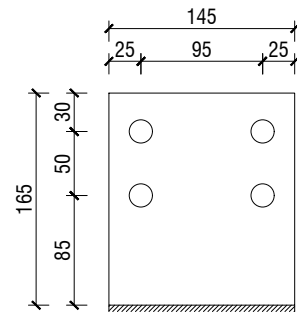


DETAIL OF BP-1
 R 12x250x300
 18mm \varnothing hole for 16mm \varnothing bolt
 Qty: 14 Nos.

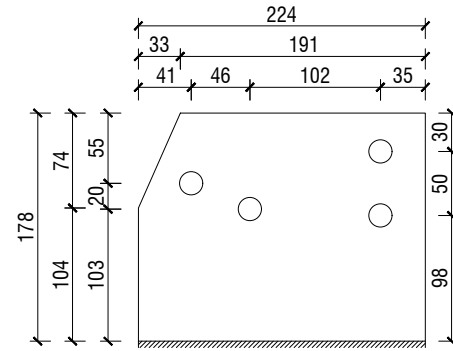
GUSSET PLATE DETAIL-I

SCALE: 1:6

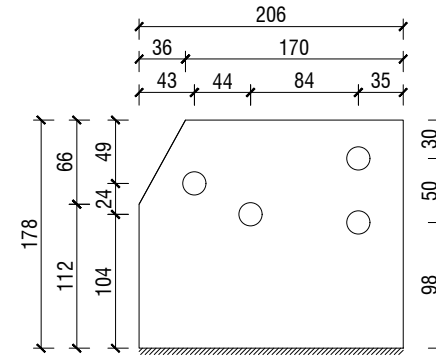
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|---|--|---|---|--|-----------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GUSSET PLATE DETAIL-I All Dimension are in Millimeter unless mentioned | SUP-20 SCALE AS SHOWN |



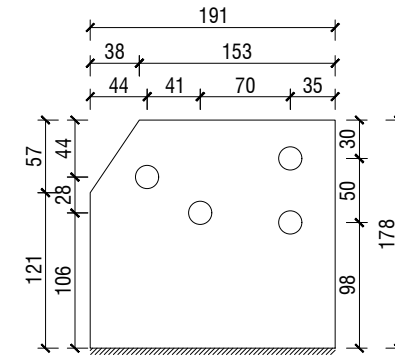
DETAIL OF GP-1
 ₹ 6x165x145
 18mmØ hole for 16mm Ø bolt
 Qty: 10 Nos.



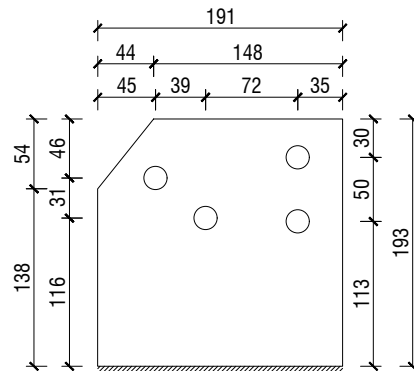
DETAIL OF GP-2
 ₹ 6x178x224
 18mmØ hole for 16mm Ø bolt
 Qty: 05 Nos.



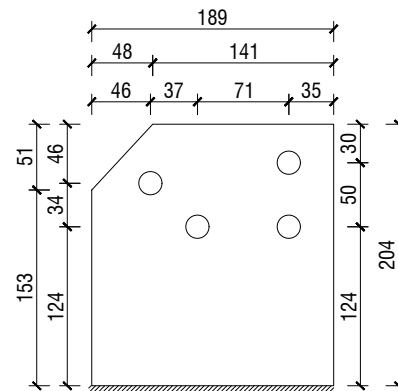
DETAIL OF GP-3
 ₹ 6x178x206
 18mmØ hole for 16mm Ø bolt
 Qty: 10 Nos.



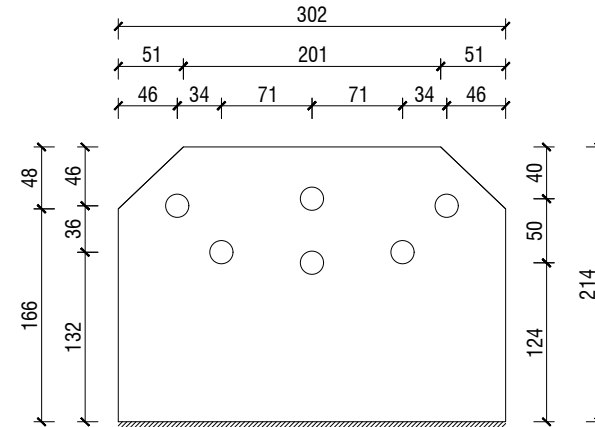
DETAIL OF GP-4
 ₹ 6x178x191
 18mmØ hole for 16mm Ø bolt
 Qty: 10 Nos.



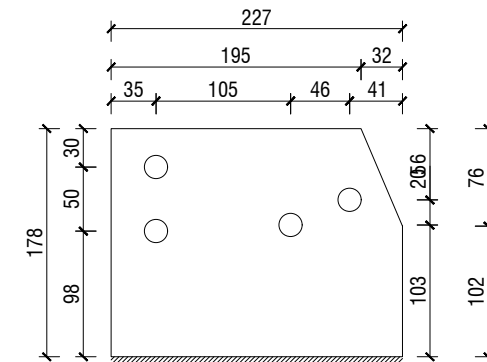
DETAIL OF GP-5
 ₹ 6x193x191
 18mmØ hole for 16mm Ø bolt
 Qty: 10 Nos.



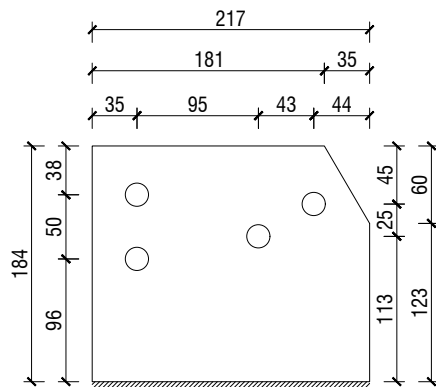
DETAIL OF GP-6
 ₹ 6x204x189
 18mmØ hole for 16mm Ø bolt
 Qty: 10 Nos.



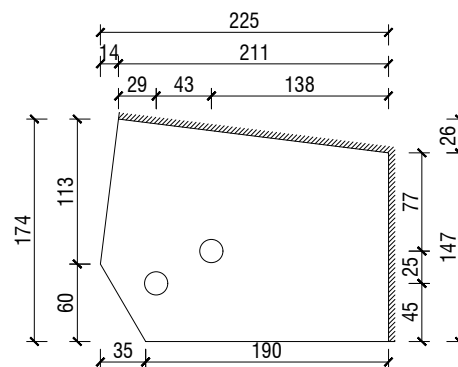
DETAIL OF GP-7
 ₹ 6x214x302
 18mmØ hole for 16mm Ø bolt
 Qty: 05 Nos.



DETAIL OF GP-8
 ₹ 6x178x227
 18mmØ hole for 16mm Ø bolt
 Qty: 05 Nos.





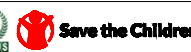
DETAIL OF GP-9
 ₹ 6x184x217
 18mmØ hole for 16mm Ø bolt
 Qty: 05 Nos.



DETAIL OF GP-10
 ₹ 6x174x225
 18mmØ hole for 16mm Ø bolt
 Qty: 05 Nos.

GUSSET PLATE DETAIL-II

SCALE: 1:6

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|---|---|---|--|---|---|-------------------------------|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GUSSET PLATE DETAIL-II | All Dimension are in Millimeter unless mentioned | SUP-21 SCALE AS SHOWN |



Multipurpose Disaster Shelter Support (MPDS) Project

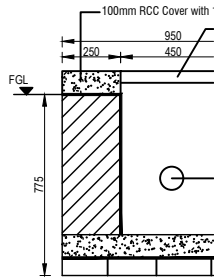
PLUMBING DESIGN & DRAWINGS

FOR





CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT REJU NOTUNPARA PARAKENDRO UNDER
REJU UNION, UPAZILA: NAIKHONGCHHARI, DISTRICT: BANDARBAN

Issued for Tender

| Table of Content | | | |
|------------------|---|-----------|--------------|
| SL | Drawing Title | Sheet No. | Revision No. |
| 01 | INDEX | 00 | |
| 02 | NOTES FOR PLUMBING & LEGENDS | P-01 | |
| 03 | USABLE WATER PIPE NETWORK (Ground Floor) | P-02 | |
| 04 | SOIL & WASTE WATER PIPE NETWORK(Ground Floor) | P-03 | |
| 05 | USABLE WATER PIPE NETWORK (Roof Level) | P-04 | |



CROSS SECTION OF IN

| | | | | | | | | |
|--|--|---|--|---|--|----------------|---|--|
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
| <div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div> | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | <div>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</div> | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | INDEX | All Dimension are in Millimeter unless mentioned | <div>00</div> <div>SCALE</div> <div>AS SHOWN</div> |

NOTES FOR PLUMBING:

- All the plumbing drawings shall be read in conjunction with relevant architectural, structural and electrical drawings.
- Before commencement of work on-site measurement must be checked for all dimensions. If any discrepancy is found on drawing should be informed Engineer-in-Charge.
- Every branch and drain line shall be laid in a straight with a constant gradient.
- Floor finish in all toilets to be laid in slope towards floor drain / floor trap.
- Inspection pit soil & waste pit depth shall be 600 mm or shown to the relevant drawing.
- Orientation of Toilet Fixture should confirm with the Community discussion. Site specific detailed shall be provided in construction drawing.
- 150 mm slope for 30,000mm uPVC pipe for water supply. (Slope: 1:200)
- All horizontal drainage pipes shall be laid at following slope

| Size of Pipe | Soil Pipe | Waste & Rain Water Pipe |
|----------------|-----------|-------------------------|
| 50 mm dia | | 1 in 40 |
| 100 mm dia | 1 in 60 | 1 in 80 |
| 150 mm dia | 1 in 80 | 1 in 100/200 |
| 275/300 mm dia | 1 in 100 | 1 in 150 |




PIPE SPECIFICATIONS

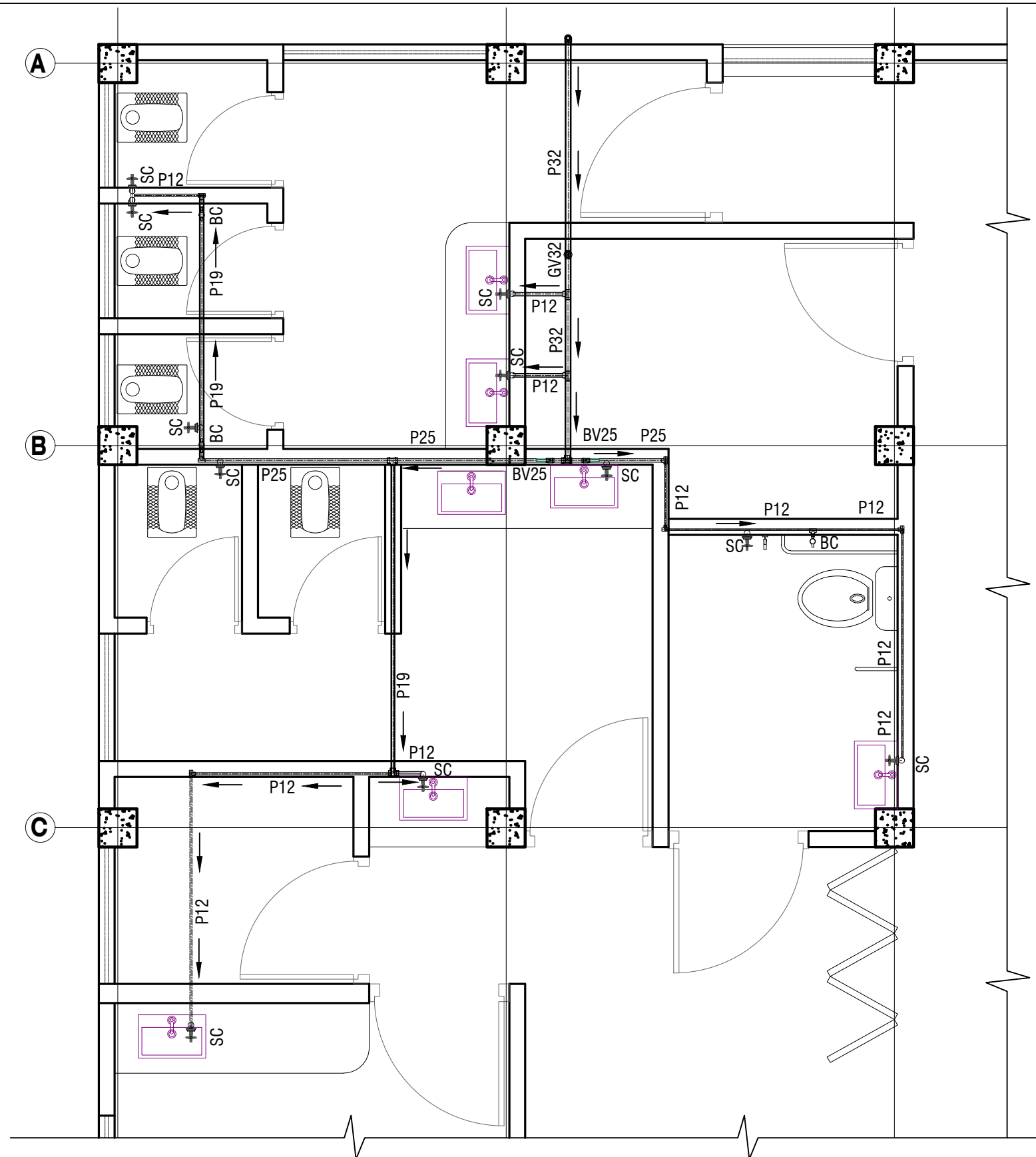
All pipe size and thickness as below (Water Supply, Waste, Soil etc.)

| Pipe Size | Pipe Type | Thickness |
|-----------|---------------------|-------------------|
| 12 mm Ø | uPVC (C-grade) | 2.80 to 3.30 mm |
| 19 mm Ø | uPVC (C-grade) | 2.90 to 3.40 mm |
| 25 mm Ø | uPVC (C-grade) | 3.40 to 4.00 mm |
| 25 mm Ø | HDPE (water supply) | 2.00 to 2.40 mm |
| 32 mm Ø | uPVC (C-grade) | 3.60 to 4.20 mm |
| 50 mm Ø | PVC (Vent Pipe) | 2.50 to 3.00 mm |
| 50 mm Ø | uPVC (Waste Water) | 2.50 mm (Minimum) |
| 100 mm Ø | PVC (Rain Water) | 2.90 mm (Minimum) |
| 100 mm Ø | uPVC (Soil Pipe) | 3.40 mm (Minimum) |

Legend

| | |
|------|--------------------------------|
| P12 | = 12mm internal dia Pipe |
| P19 | = 19mm internal dia Pipe |
| P25 | = 25mm internal dia Pipe |
| P32 | = 32mm internal dia Pipe |
| SC | = Stop Cock |
| BC | = Bib Cock |
| FT | = 100mm Ø Floor Trap |
| PC | = Pillar Cock |
| SW | = Shower |
| CS | = Concealed Stop Cock |
| | = Water Flow Direction |
| GV32 | = 32mm Gate Valve |
| BV25 | = 25mm Ball Valve |
| BV19 | = 19mm Ball Valve |
| BV12 | = 12mm Ball Valve |
| P50 | = 50mm internal dia Pipe |
| P100 | = 100mm internal dia Pipe |
| FT | = 100mm Ø Floor Trap |
| ← | = Water Flow Direction |
| ■ | = Waste water Pipe, Slope 1:80 |
| ▨ | = Soil Pipe, Slope 1:60 |

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | NOTES FOR PLUMBING & LEGENDS | All Dimension are in Millimeter unless mentioned | P-01 SCALE AS SHOWN |






- Legend**
- P12 = 12mm internal dia Pipe
 - P19 = 19mm internal dia Pipe
 - P25 = 25mm internal dia Pipe
 - P32 = 32mm internal dia Pipe
 - SC = Stop Cock
 - BC = Bib Cock
 - FT = 100mm Ø Floor Trap
 - PC = Pillar Cock
 - SW = Shower
 - CS = Concealed Stop Cock
 - = Water Flow Direction
 - GV32 = 32mm Gate Valve
 - BV25 = 25mm Ball Valve
 - BV19 = 19mm Ball Valve

- Note:**
- All pipes shall be Firmly concealed with Wall and Bib/Stop cock point will be exposed up to Wall finish.
 - Where Wall not Available The pipe will hang firmly and closely with the ceiling by clamp, screw, royal plug/bold.

Note:
Orientation of Toilet Fixture should confirm with the Community discussion. Site specific detailed shall be provided in construction drawing.

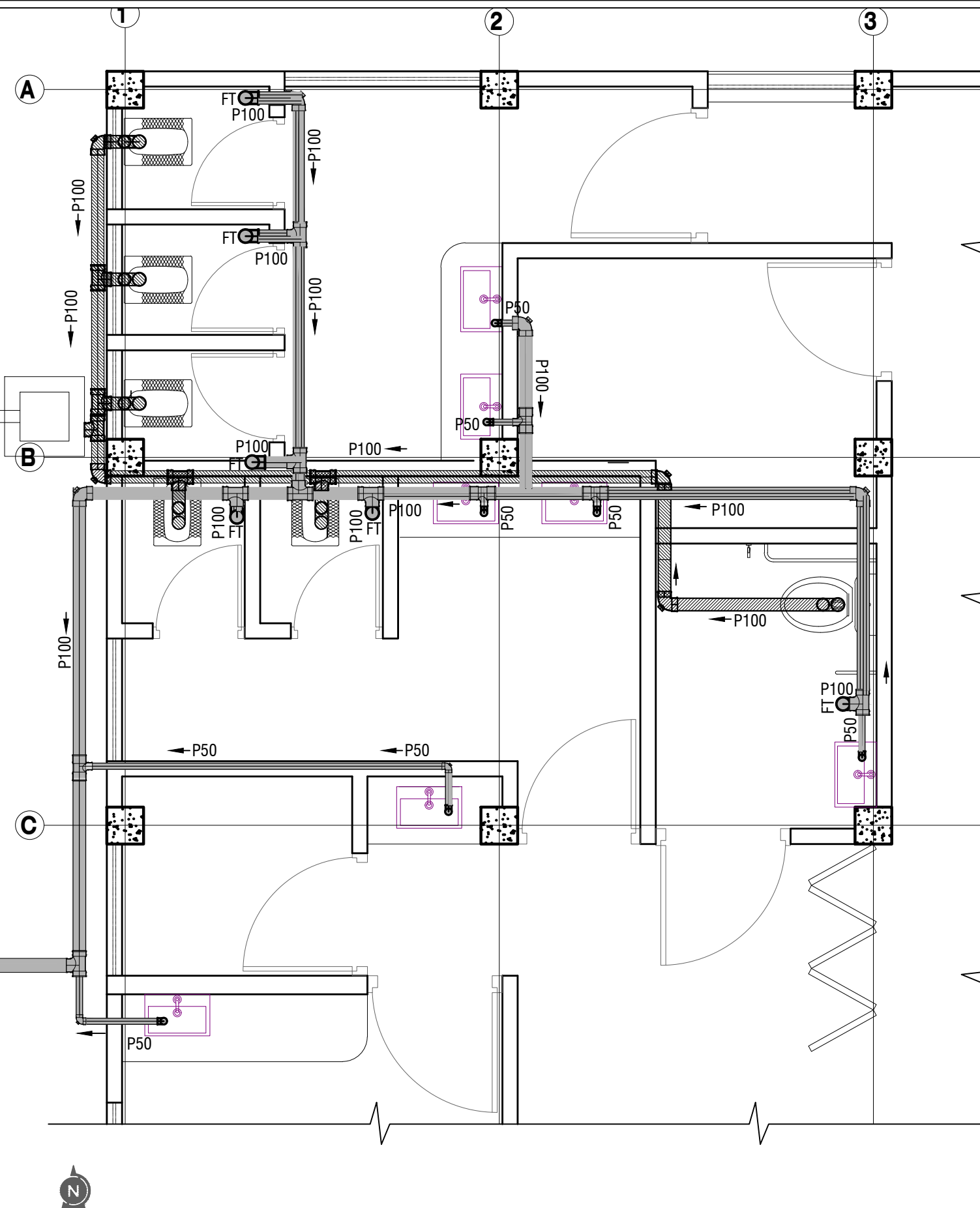
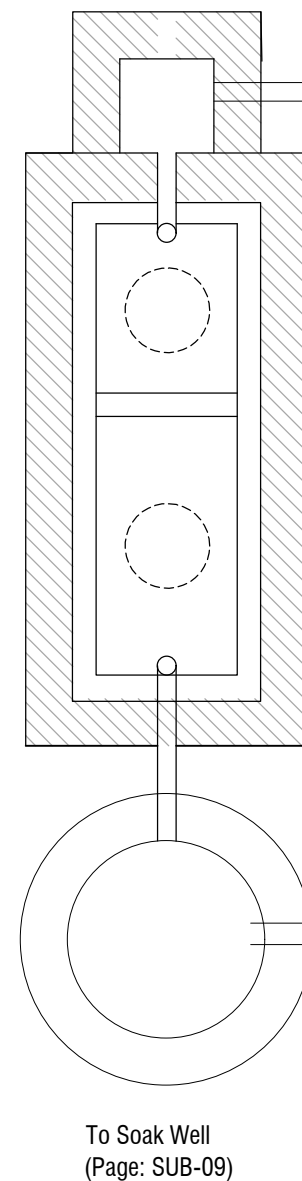
All Fixture are symbolic
Design and specification will reflect in Bill of Quantity

USABLE WATER PIPE NETWORK (GROUND FLOOR)

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|---|--|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | USABLE WATER PIPE NETWORK (Ground Floor) | All Dimension are in Millimeter unless mentioned | P-02 SCALE AS SHOWN |


Legend

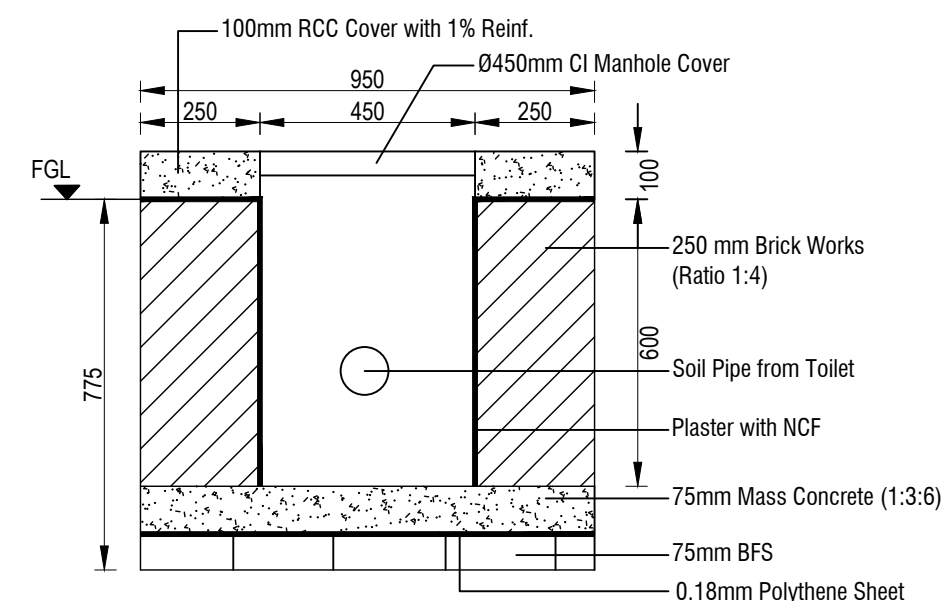
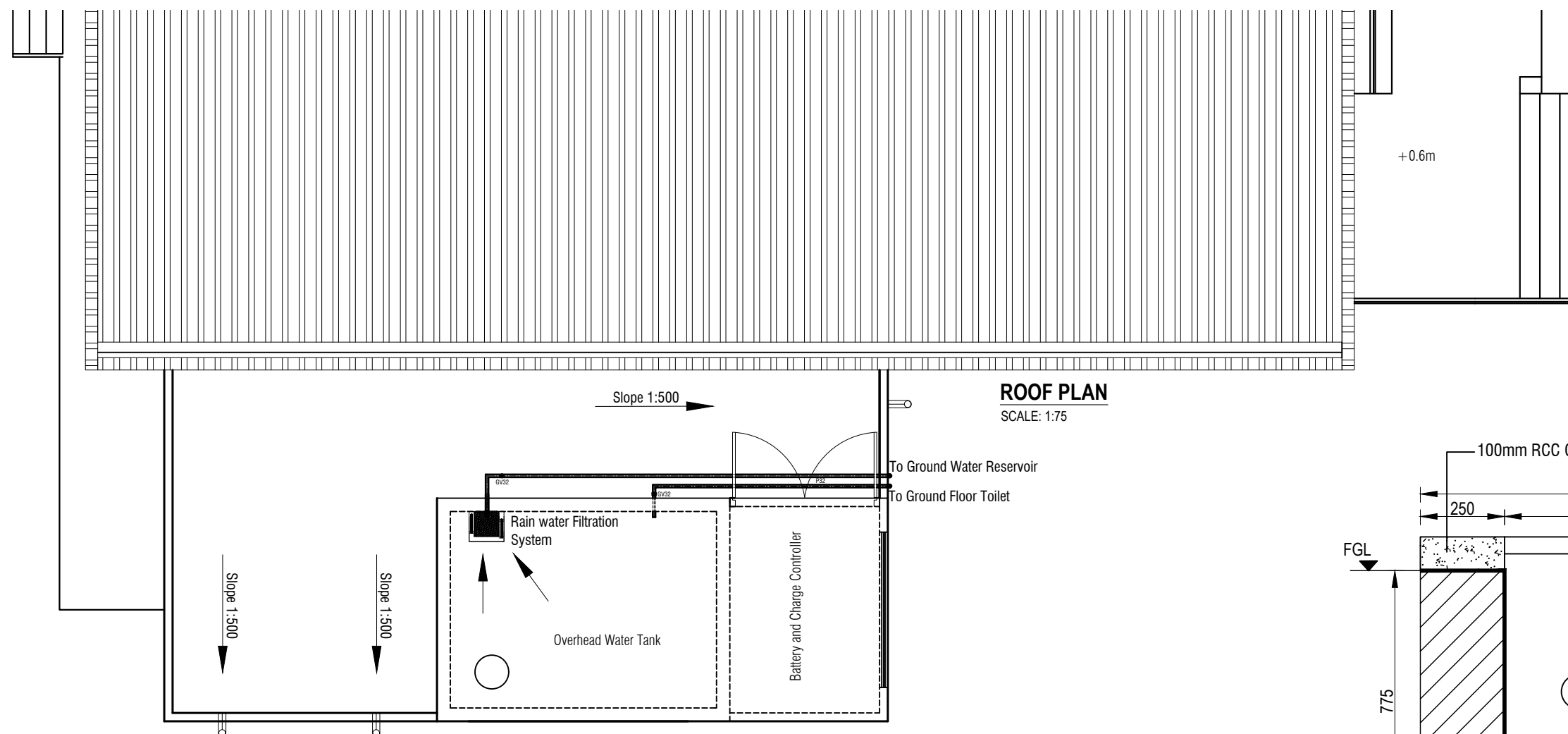
- P50 = 50mm internal dia Pipe
P100 = 100mm internal dia Pipe
FT = 100mm Ø Floor Trap
→ = Water Flow Direction
■ = Waste water Pipe, Slope 1:80
▨ = Soil Pipe, Slope 1:60



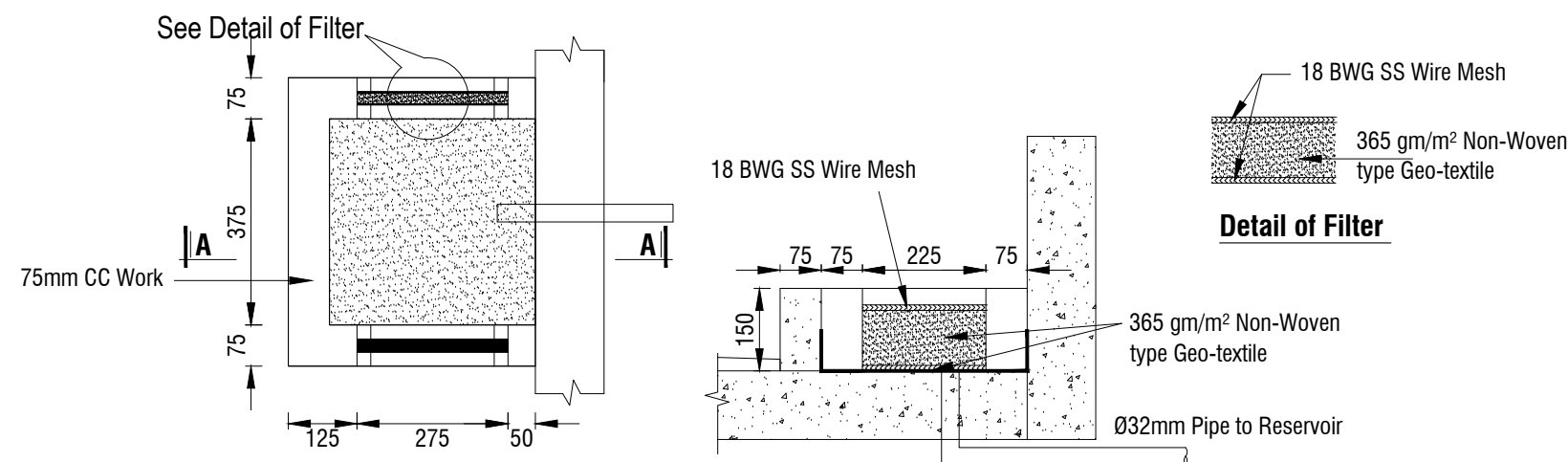
- Note:**
- All soil and waste water will pass through pipe placed under the ground floor slab and pipe will end at the pit.

WASTE WATER & SOIL PIPE NETWORK (GROUND FLOOR)

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|---|--|---|---|---|---|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | SOIL & WASTE WATER PIPE NETWORK (GROUND FLOOR) All Dimension are in Millimeter unless mentioned | P-03 SCALE AS SHOWN |



CROSS SECTION OF INSPECTION PIT






Plan of Rain Water Collection Point

Section A-A

Note: Rain Water Down Pipe Will Connect to Drainage System Shown in Page GEN-02

uPVC Pipe Specification:

Specific Gravity not less than 1.35
Comply with BDS ISO TR 4191:2008 of ASTM Standard
For 32mm Wall thickness not less than 3.6mm
For 25mm Wall thickness not less than 3.4mm

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|--|--|---|---|---|---|---|
|    MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | USABLE WATER PIPE NETWORK (ROOF LEVEL) | All Dimension are in Millimeter unless mentioned | P-04 SCALE AS SHOWN |



Multipurpose Disaster Shelter Support (MPDS) Project

ELECTRICAL DESIGN & DRAWINGS

FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT REJU NOTUNPARA PARAKENDRO UNDER
REJU UNION, UPAZILA: NAIKHONGCHHARI, DISTRICT: BANDARBAN

Issued for Tender

| Table of Content | | | |
|------------------|---|-----------|--------------|
| SL | Drawing Title | Sheet No. | Revision No. |
| 01 | INDEX | E-00 | |
| 02 | ELECTRICAL LEGEND | E-01 | |
| 03 | GROUND FLOOR ELECTRICAL PLAN | E-02 | |
| 04 | ROOF FLOOR ELECTRICAL PLAN | E-03 | |
| 05 | CIRCUIT DIAGRAM, SCHEMATIC DIAGRAM and EARTHING PIT DETAILS | E-04 | |

ELECTRICAL LEGEND

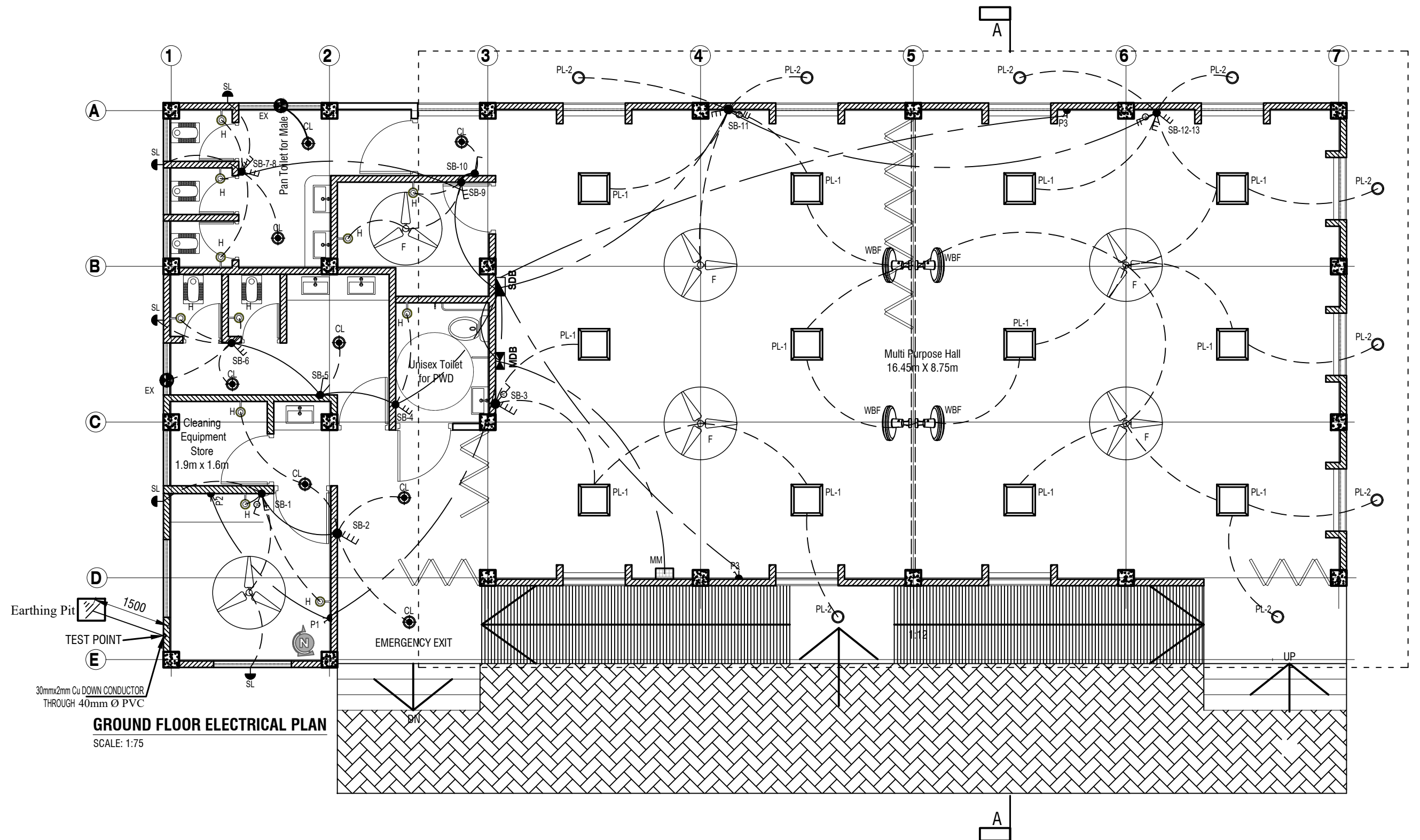
| | | |
|--|------|---|
| | MDB | MAIN DISTRIBUTION BOARD |
| | SDB | SUB-DISTRIBUTION BOARD |
| | MM | MAIN / MOTHER METER FROM BPDB |
| | SB | 1-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL |
| | SB | 2-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL |
| | SB | 3-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL |
| | SB | 4-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL |
| | RB | FAN REGULATOR I/C SWITCH(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL |
| | CL | 1X12W/9W CEILING SURFACE MOUNTED LED LIGHT FIXTURE |
| | PL-1 | 1X40W SURFACE MOUNTED PANEL (from False Ceiling) SQUARE LED LIGHT FIXTURE |
| | PL-2 | 1X12W SURFACE MOUNTED PANEL (from False Ceiling) ROUND LED LIGHT FIXTURE |
| | H | 1X7W WALL MOUNTED LED BRACKET LIGHT FIXTURE |
| | F | 1422mm SWEEP CEILING FAN |
| | EX | 300mm SWEEP EXHAUST FAN |
| | P | 16A SP (2/3 PIN) UNIVERSAL TYPE SWITCHED SOCKET OUTLET |
| | WBF | 400 mm SWEEP WALL BRACKET FAN (PLASTIC BODY & BLADE) |
| | C1 | 1.5 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | C2 | 2.5 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | C3 | 4.0 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | C4 | 6.0 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | E4 | 1.5 mm ² SINGLE CORE BYA (re) FRLS CABLE |
| | E4 | 2.5 mm ² SINGLE CORE BYA (re) FRLS CABLE |
| | E4 | 6.0 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | E4 | 16 mm ² SINGLE CORE BYA (rm) FRLS CABLE |
| | | CONDUIT ROUTE THROUGH CEILING / WALL |


NOTE :

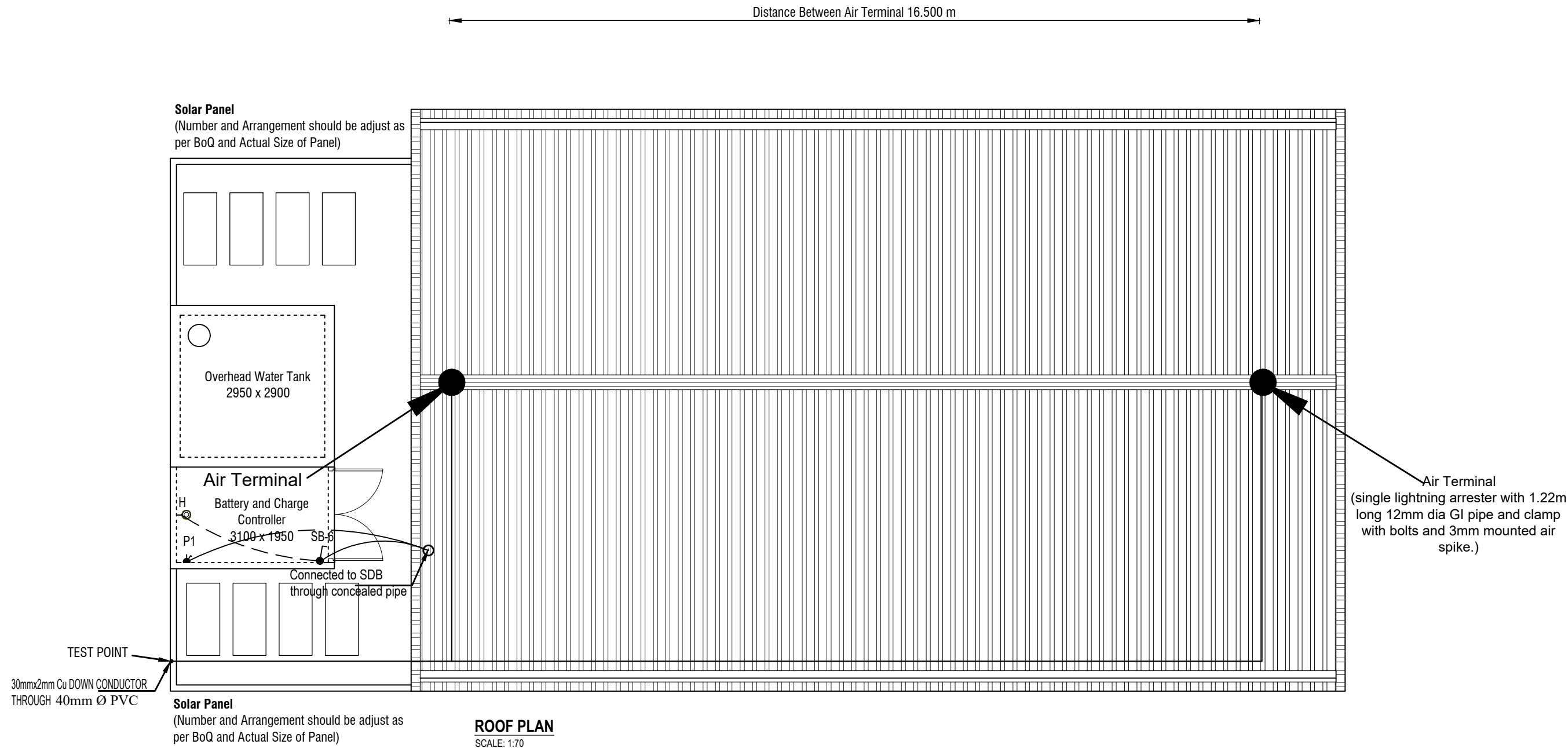
- ALL PVC CONDUIT ARE (25mm) UNLESS OTHERWISE SPECIFIED
- CONDUITS SHALL BE LAID EXPOSED ABOVE FALSE PANEL CEILING (HALL ROOM) AREA.
- CONDUITS SHALL BE CONCEALED IN R.C.C. SLAB WHERE THERE IS NO FALSE CEILING (TOILET AREA)
- CONDUITS SHALL BE CONCEALED IN WALL
- SWITCH BOARD(SB)- TO LIGHT/FAN POINT WIRING BY --- 2X1C-1.5mm² BYA rm (50% Red + 50% Black)+1X1C-1.5mm² BYA re (Green) CABLE
- SDB TO EACH SWITCH BOARD CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- SDB TO EACH SOCKET CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- MDB TO EACH SDB-SUB-MAIN LINE WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- ALL STEEL BOX : SWITCH BOARD/SOCKET/SDB/MDB BOX MUST BE USE -- EARTHING TERMINAL/BLOCK
- EARTHING SET -- 2SETS. (1-SET FOR LIGHTNING PROTECTION SYSTEM, 1-SET FOR MDB)- EARTH ELECTRODE -38mmØ G.I PIPE-DEPTH: 12000mm LONG
- ALL CABLE SIZES AS PER BNBC CODE
- SB- INSTALLATION HEIGHT-- 1200mm FROM F.F.L
SOCKET INSTALLATION HEIGHT-- 75mm FROM F.F.L EXCEPT TOILET/KITCHEN FOR KITCHEN & TOILET-SOCKET HEIGHT -SAME OF SWITCH BOARD HEIGHT
- ANY CHANGES REQUIRED IN THE DESIGN & DRAWING SHALL BE SUBJECTED TO PRIOR APPROVAL OF THE DESIGN ENGINEER OTHERWISE THIS SHALL NOT BE BINDING UPON THE CONSULTANT.
- QUALITY CONTROL ASSURANCE AND WORKMANSHIP SHALL BE ENSURED BY THE EXECUTING AGENCY.
- CLEAR COVER FOR RCC COMPONENTS SHOULD BE MAINTAINED ACCORDING TO STRUCTURAL DESIGN AND DRAWING.




ALL THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS

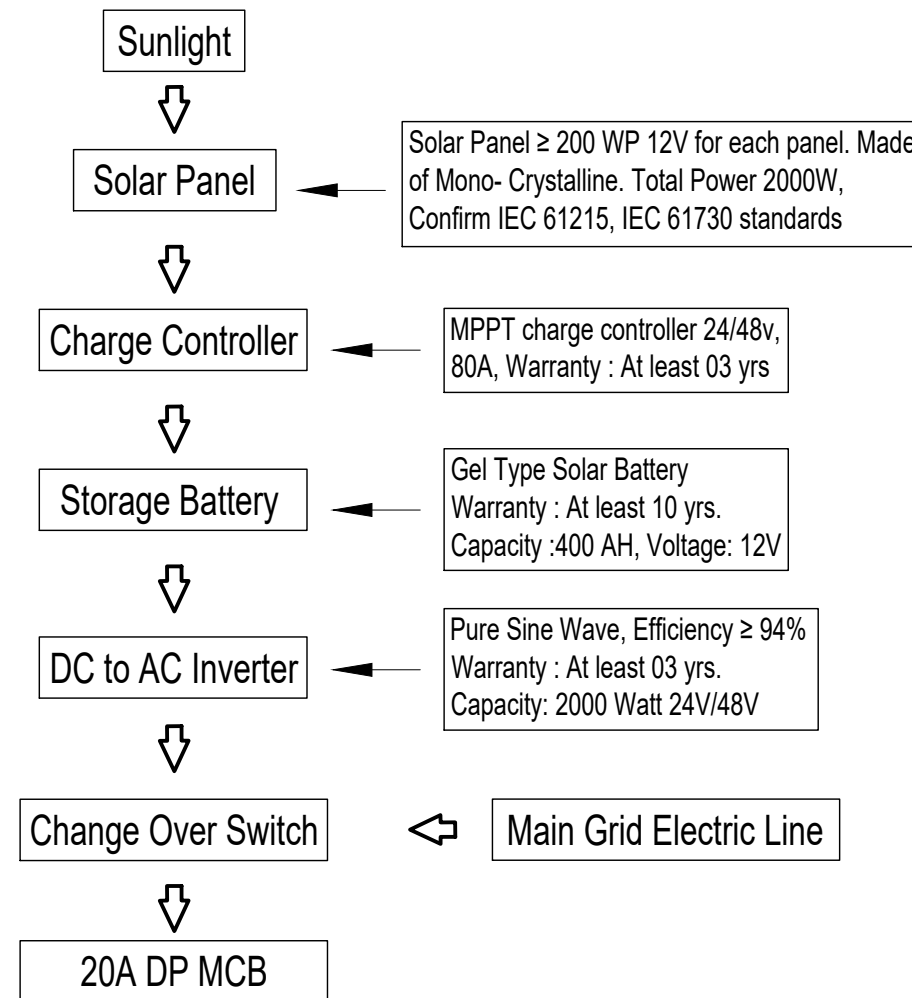
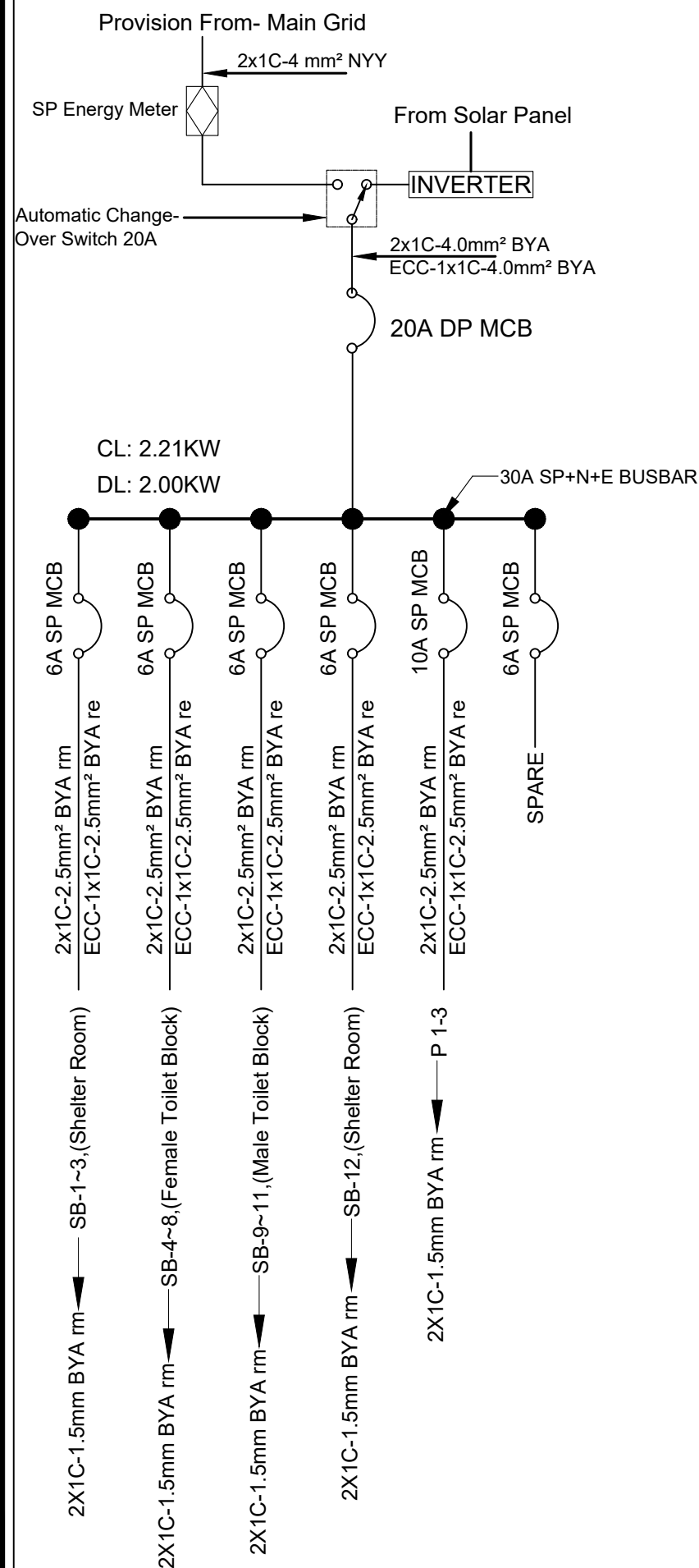
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|---|---|---|--|---|---|--------------------------|--|----------------------------------|
| MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | ELECTRICAL LEGEND | All Dimension are in Millimeter unless mentioned | E-01 SCALE AS SHOWN |



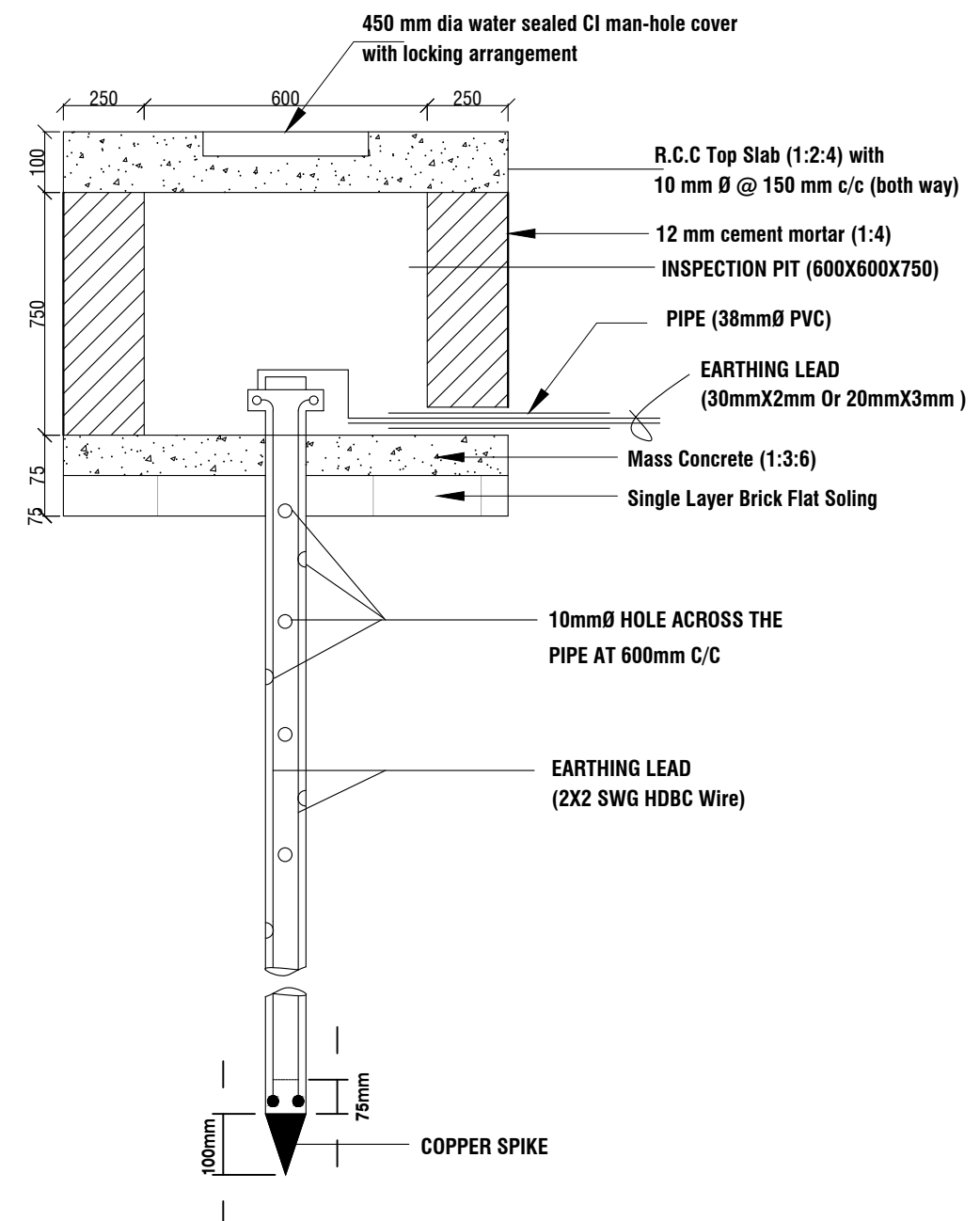
| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | SHEET NO: |
|--|---|---|--|---|---|---|----------------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | GROUND FLOOR ELECTRICAL PLAN All Dimension are in Millimeter unless mentioned | E-02 SCALE AS SHOWN |



| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|--|---|--|---|--|-------------------------------|---|--|
| <div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div> | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | <div>Package No: SCI/MPDS/B11-23-01</div> <div>Revision No:</div> <div>Issued for Tender</div> | ROOF FLOOR ELECTRICAL PLAN | All Dimension are in Millimeter unless mentioned | <div>E-03</div> <div>SCALE</div> <div>AS SHOWN</div> |



SCHEMATIC DIAGRAM OF SOLAR POWER




38mm Ø GI PIPE EARTHING DETAILS

SUNK TO A DEPTH 12000mm (MINIMUM)

Earth resistance of Lightning protection System :
10Ω (as per NFPA780)

Air terminal to Air terminal distance ≤ 8Meter (as per NFPA780)

| NAME OF PROJECT: | NAME OF WORK: | ORIGINAL DESIGN BY: | DESIGN MODIFIED BY: | VERIFIED BY: | PACKAGE INFO. | DRAWING TITLE: | | SHEET NO: |
|--|---|---|--|---|---|--|--|----------------------------------|
|  MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT | Construction of Multipurpose Disaster Shelter at Reju Notunpara Parakendro under Sonaichhari Union, Upazila: Naikhongchhari, District: Bandarban FUNDED BY: USAID | SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh | MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International | TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh | Package No: SCI/MPDS/B11-23-01 Revision No: Issued for Tender | CIRCUIT DIAGRAM, SCHEMATIC DIAGRAM and EARTHING PIT DETAILS | All Dimension are in Millimeter unless mentioned | E-04 SCALE AS SHOWN |