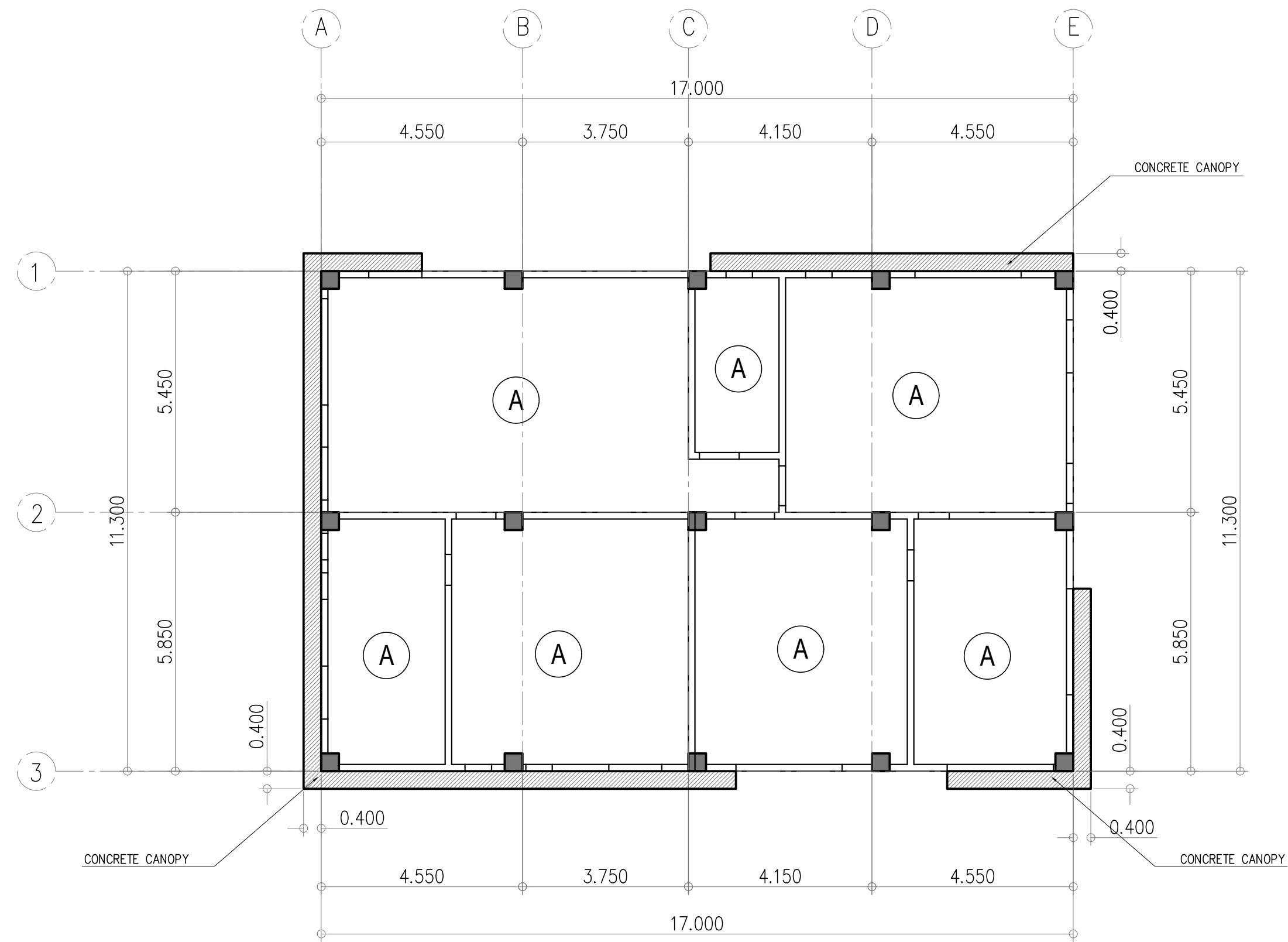
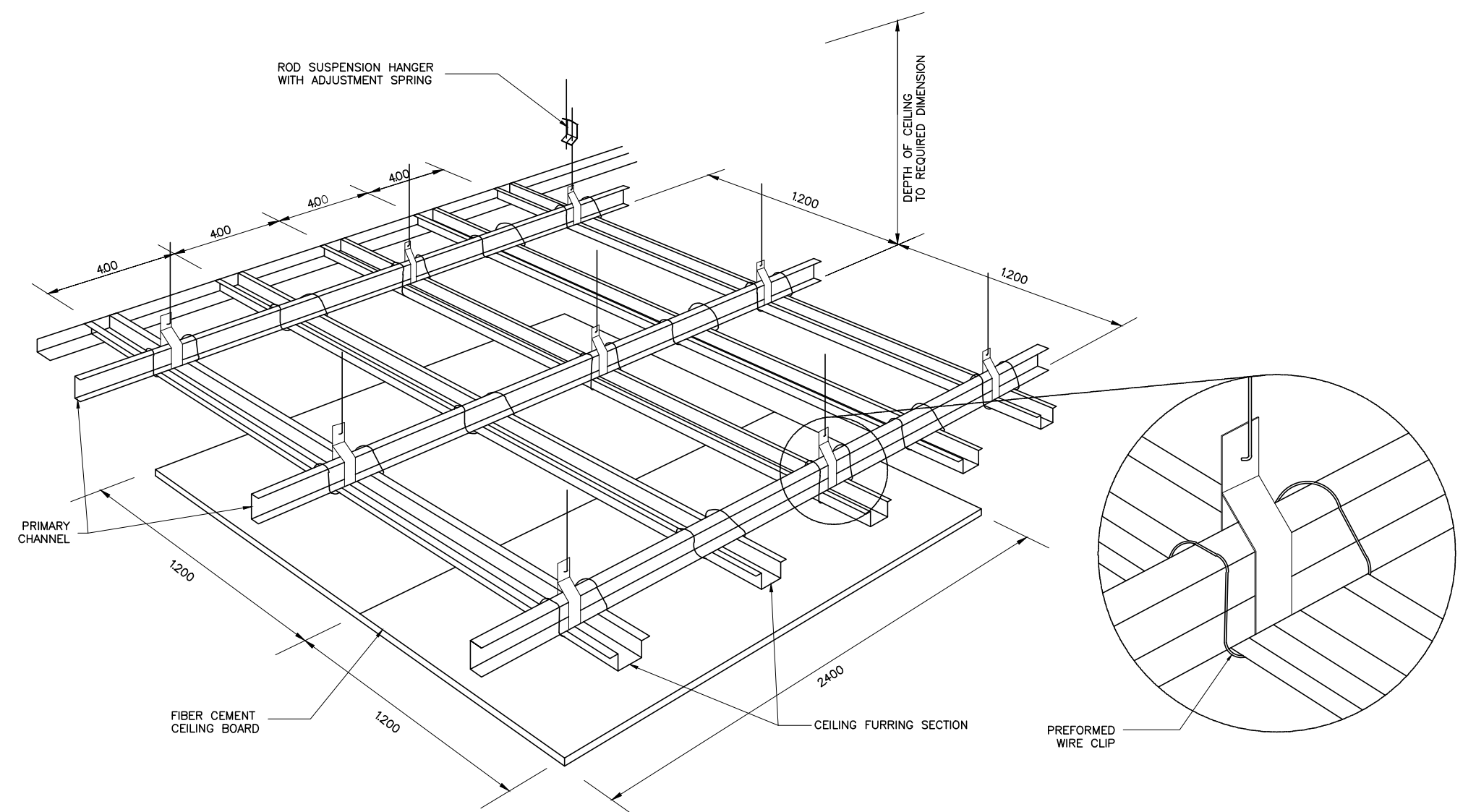




#### LEGEND :

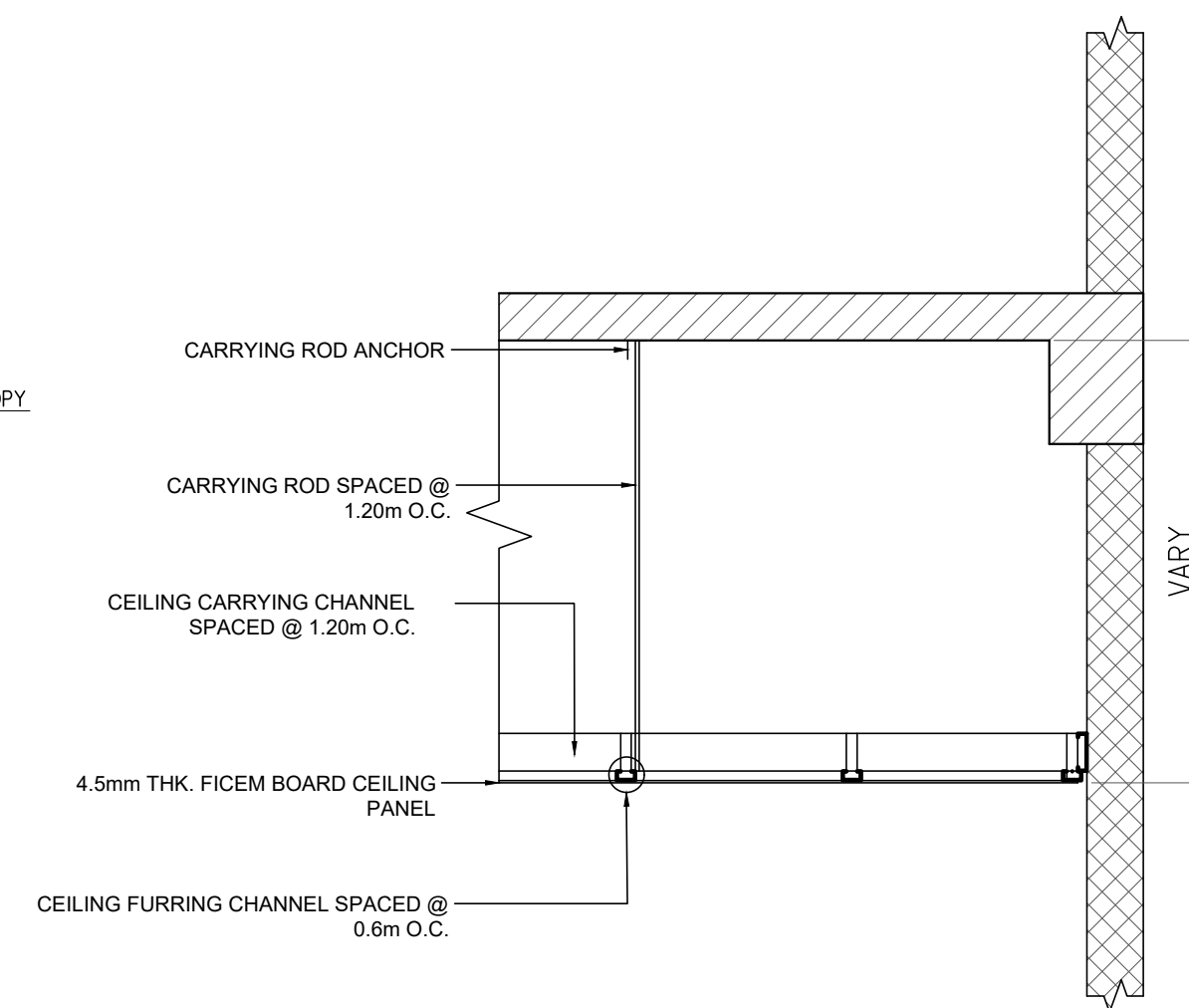
- A** EGG SHELL PAINT FINISH  
6mm THK. FICEM BOARD CEILING  
ON SUSPENDED CEILING SYSTEM
- B** CONCRETE FINISH

REFLECTED CEILING PLAN  
**FOURTH FLOOR PLAN**  
SCALE 1:100 MTS.

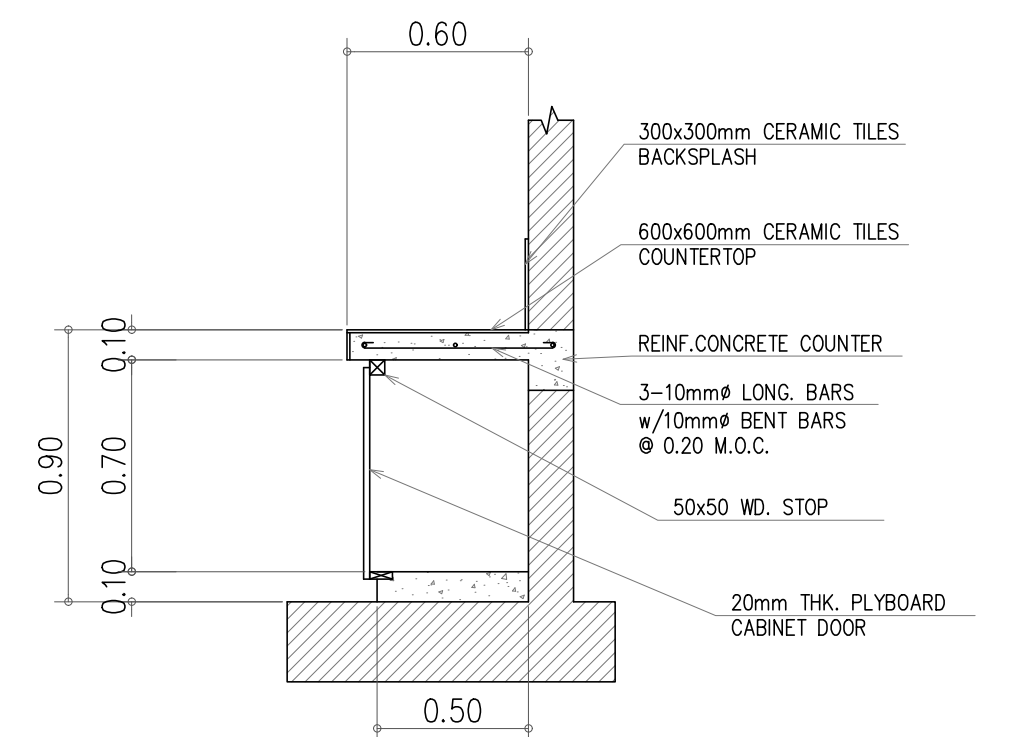


**ISOMETRIC CEILING DETAIL**  
SCALE NTS.

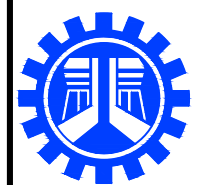
**3 SPOT DETAIL**  
SCALE NTS.



**CEILING DETAILS**  
SCALE NTS.



**KITCHEN COUNTER DETAIL**  
SCALE 1:25 MTS.



REPUBLIC OF THE PHILIPPINES  
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CY 2025 PROJECT  
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BARANGAY STA. CLARA, BATANGAS CITY

CAD AND DESIGNED BY:  
**MA. JESSA ANN M. CABALLES**  
ARCHITECT II (JO)  
DATE :

CHECKED BY:  
**JACINTO T. MACARAIG**  
ARCHITECT II  
DATE :

REVIEWED & SUBMITTED :  
**GEMMA L. OLAN**  
CHIEF  
PLANNING & DESIGN SECTION  
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RECOMMENDED :  
**ARIEL V. ARMEDILLA**  
ASSISTANT DISTRICT ENGINEER  
DATE :

APPROVED :  
**SONIA D. PAGLICAUAN**  
DISTRICT ENGINEER  
DATE :

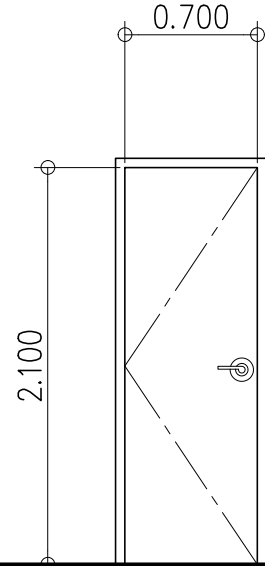
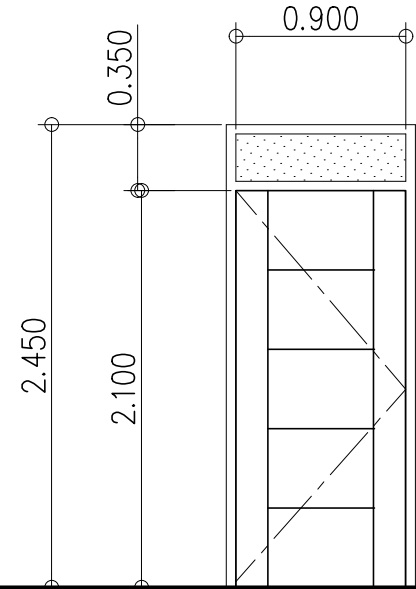
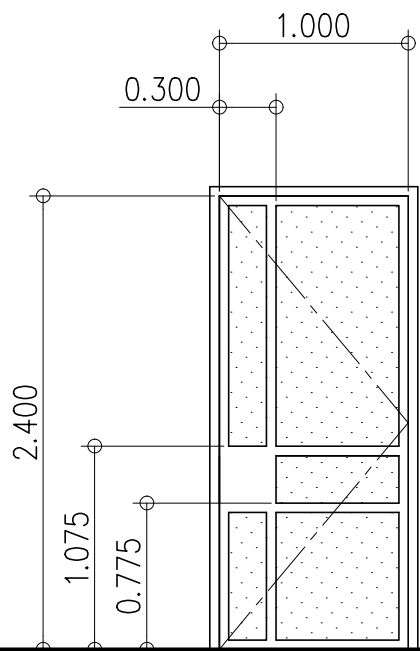
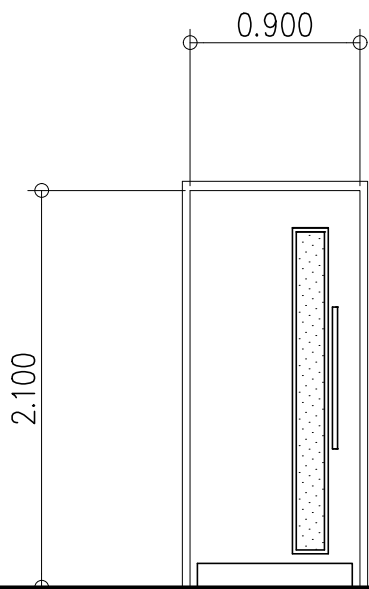
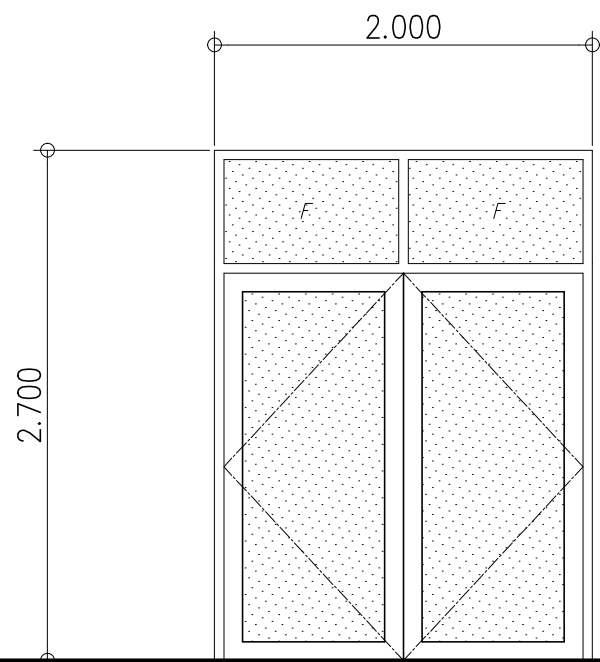
SHEET CONTENT :  
4F REFLECTED CEILING PLAN  
ISOMETRIC CEILING PLAN  
SPOT DETAIL  
CEILING DETAILS  
KITCHEN COUNTER DETAIL

SHEET NO.:  
**A-09**

SCHEDULE OF DOORS & WINDOWS

SCALE

1:40 MTS



D1

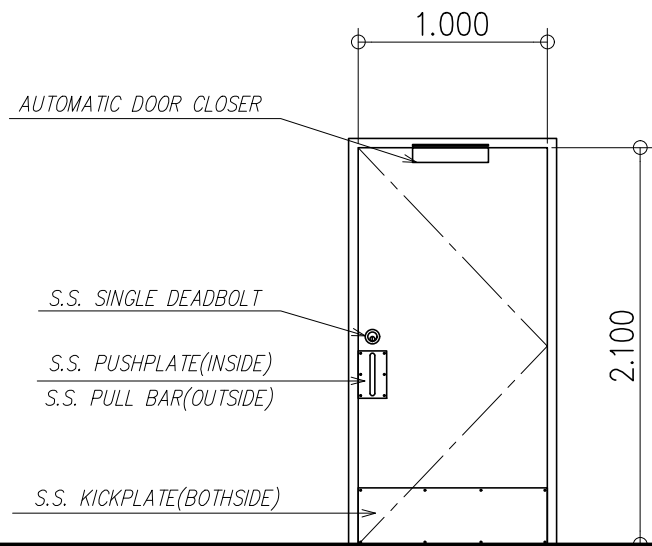
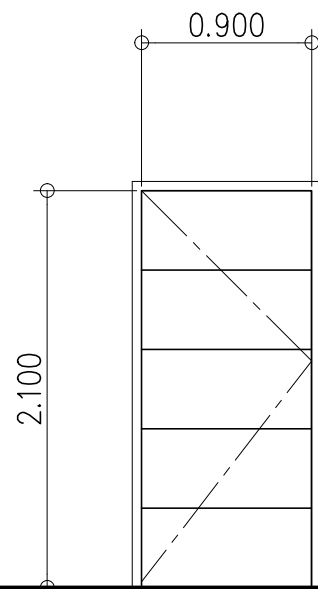
D2

D3

D4

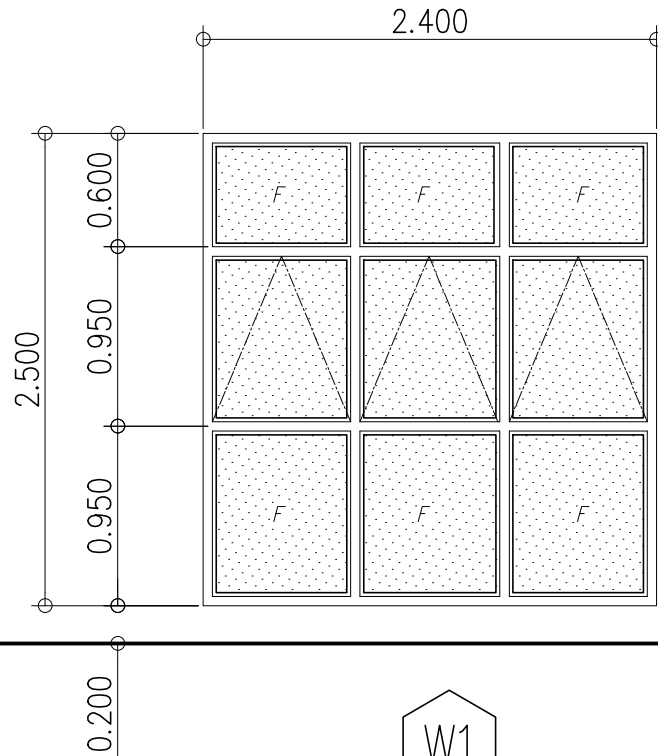
D5

|                 |                                                             |                               |                                        |                                   |                                 |
|-----------------|-------------------------------------------------------------|-------------------------------|----------------------------------------|-----------------------------------|---------------------------------|
| TYPE :          | SWING GLASS DOOR w/ UPPER LIGHT & TRANSOM                   | STEEL FIRE EXIT DOOR          | FRAMED SWING GLASS DOOR                | WD. PANEL DOOR WITH TRANSOM LIGHT | FLUSH SWING DOOR                |
| FRAME :         | ALUMINUM GLASS DOOR PANEL                                   |                               | EXTRUDED ALUMINUM                      | K.D. WD. TANGUILE                 |                                 |
| FINISH :        |                                                             |                               | POWDER COATED BLUE                     | POWDERCOATED BLUE                 | POWDERCOATED MARINE PLYWOOD     |
| GLAZING/PANEL : | 10mm THK. TEMPERED CLEAR GLASS                              |                               | 6mm THK. FROSTED GLASS                 | K.D. WD. TANGUILE                 | 6mm FROSTED WIRED GLASS         |
| JAMB :          | BUILT-UP ALUM. COMPOSITE PANEL WALL ON STL. ANGLE BAR FRAME | 4 – BUTT HINGES               | ALUMINUM                               | POWDERCOATED ALUMINUM             | POWDERCOATED 2"x5" S4S K.D. WD. |
| HINGES/TRACK :  |                                                             | PUSH BAR PANIC DEVICE         | FLOOR & TRANSOM DOOR CLOSER HINGES     | 4 H.D. BUTT HINGES                | 3 – BUTT HINGES                 |
| LOCKSET :       | SWING DOOR LOCK SYSTEM                                      |                               | LEVER TYPE LOCK SET & DOUBLE DEAD BOLT | LEVER TYPE LOCKSET                | LEVERTYPE LOCKSET               |
| ACCESSORIES :   |                                                             |                               |                                        |                                   | WOODEN LOUVER VENT              |
| LOCATION :      | MAIN ENTRANCE                                               | FIRE EXIT, ROOF DECK, EE ROOM | DISTRICT COMMANDER OFFICE              | 2F, 3F, 4F QUARTER ROOMS          | ALL TOILETS                     |
| QUANTITY :      | ONE (1) SET                                                 | SIX (6) SETS                  | ONE (1) SET                            | TEN (10) SETS                     | TEN (10) SETS                   |

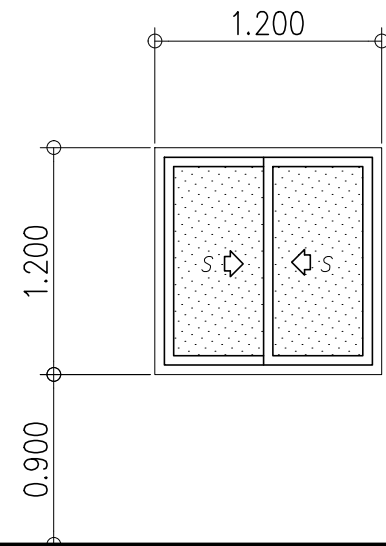


D6

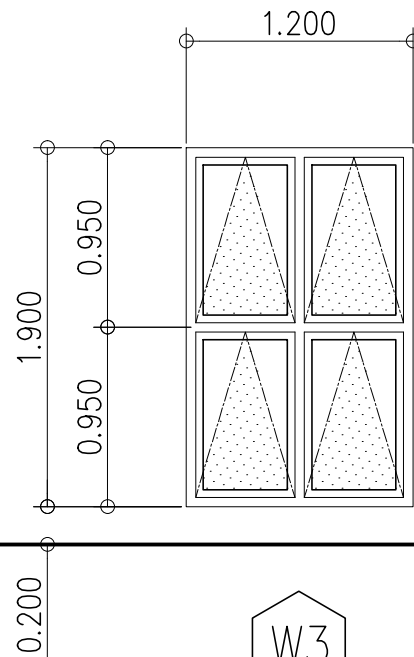
D7



W1

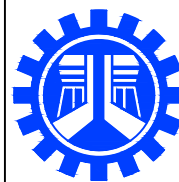


W2



W3

|                 |                       |                                       |                           |                           |                           |
|-----------------|-----------------------|---------------------------------------|---------------------------|---------------------------|---------------------------|
| TYPE :          | WD. PANEL DOOR        | WOODEN FLUSH SWING DOOR               | AWNING WITH FIXED WINDOW  | SLIDING WINDOW            | AWNING WINDOW             |
| FRAME :         | K.D. WD. TANGUILE     | POWDERCOATED MAR. PLYWOOD             | ALUMINUM FRAME            | ALUMINUM FRAME            | ALUMINUM FRAME            |
| FINISH :        |                       | DUCCO FINISH                          | POWDERCOATED              | POWDERCOATED              | POWDERCOATED              |
| GLAZING/PANEL : | K.D. WD. TANGUILE     | MARINE PLYWOOD                        | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS |
| JAMB :          | POWDERCOATED ALUMINUM | POWDERCOATED 2"x5" S4S K.D. WD.       |                           |                           |                           |
| HINGES/TRACK :  | 4 H.D. BUTT HINGES    | 4 – BUTT HINGES                       |                           |                           |                           |
| LOCKSET :       | LEVER TYPE LOCKSET    | SINGLE DEAD BOLT                      |                           |                           |                           |
| ACCESSORIES :   |                       | AUTOMATIC DOOR CLOSER, S.S. SIGNAGE   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   |
| LOCATION :      |                       | S.S. PUSHPLATE&PULLBAR,S.S. KICKPLATE |                           | EE ROOM, 2F,3F,F4 ROOM    |                           |
| QUANTITY :      | PANTRY                | PWD TOILET                            | GF HALLWAY                |                           | 2F, 3F, 4F LOUNGE AREA    |
|                 | FIVE (5) SETS         | ONE (1) SET                           | ONE (1) SET               | TEN (10) SETS             | SIX (6) SETS              |



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ASSISTANT DISTRICT ENGINEER

DATE :

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DISTRICT ENGINEER

DATE :

SHEET CONTENT :

SCHEDULE OF DOORS & WINDOWS

SHEET NO.:

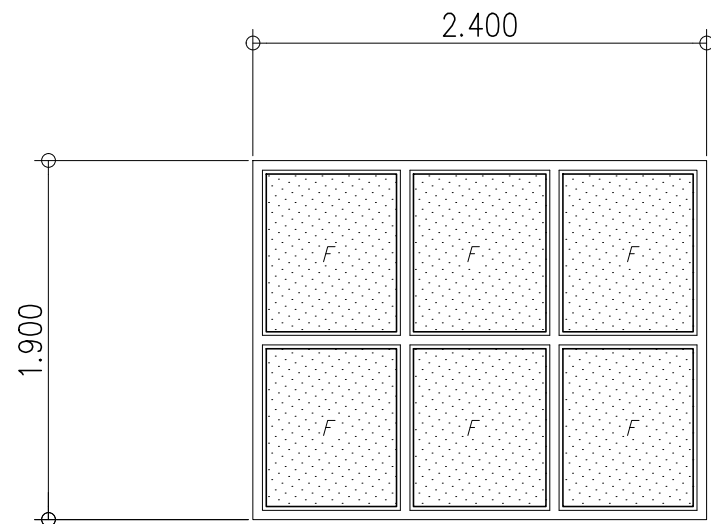
A-10

1  
A-11

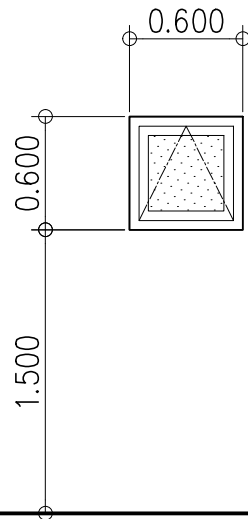
SCHEDULE OF WINDOWS

SCALE

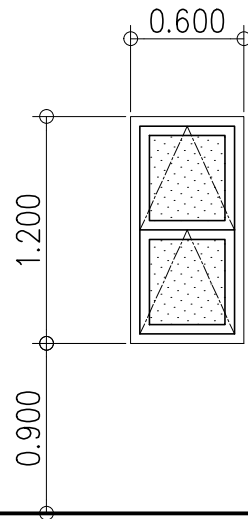
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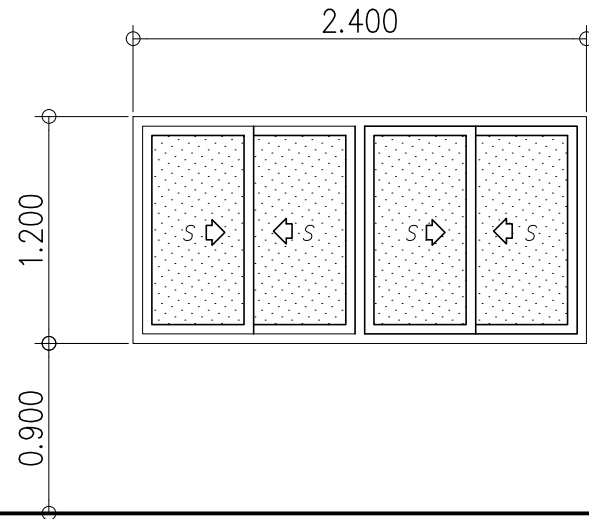
W4



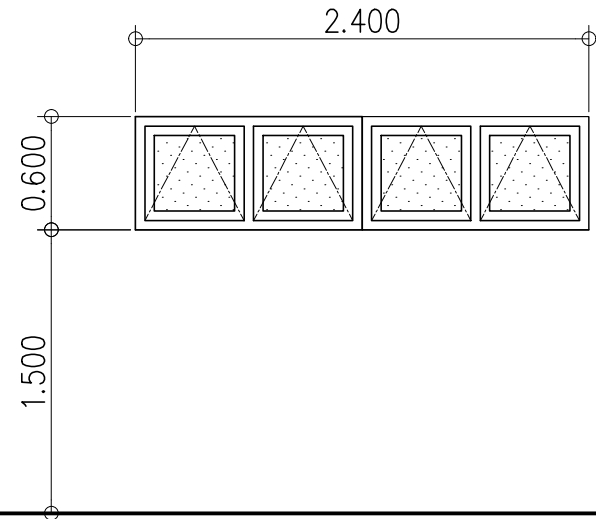
W5



W6

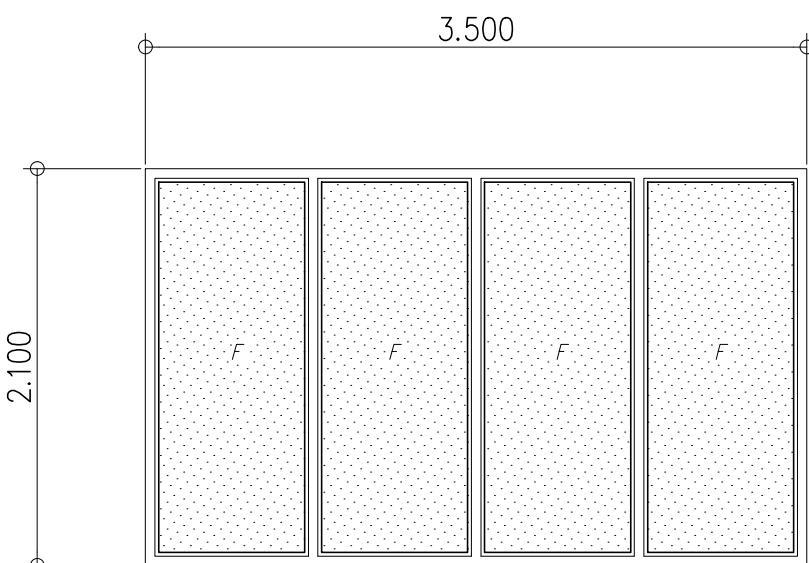


W7



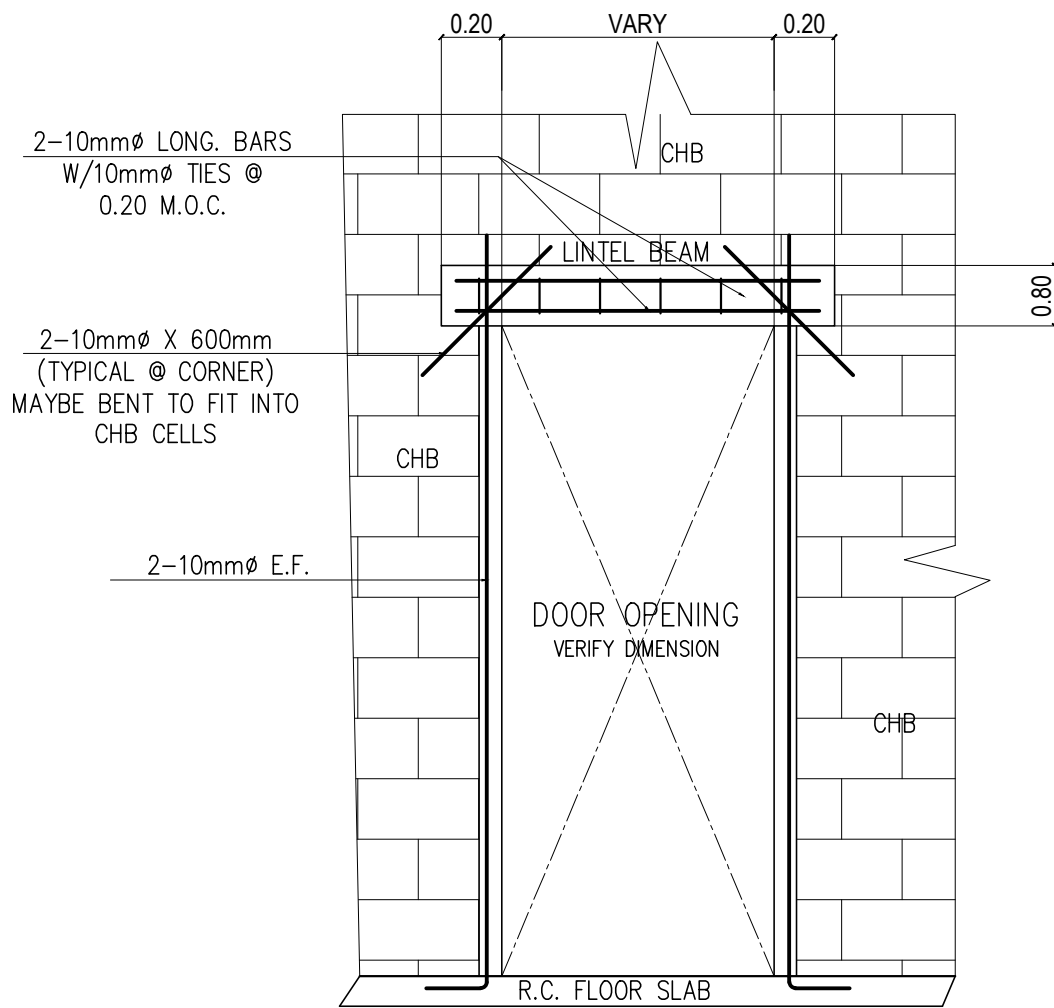
W8

|                 |                           |                           |                           |                           |                           |
|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| TYPE :          | FIXED WINDOW              | AWNING WINDOW             | AWNING WINDOW             | SLIDING WINDOW            | AWNING WINDOW             |
| FRAME :         | ALUMINUM FRAME            | ALUMINUM FRAME            | ALUMINUM FRAME            | ALUMINUM FRAME            | ALUMINUM FRAME            |
| FINISH :        | POWDERCOATED              | POWDERCOATED              | POWDERCOATED              | POWDERCOATED              | POWDERCOATED              |
| GLAZING/PANEL : | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS | 6mm THK. REFLECTIVE GLASS |
| JAMB :          |                           |                           |                           |                           |                           |
| HINGES/TRACK :  |                           |                           |                           |                           |                           |
| LOCKSET :       |                           |                           |                           |                           |                           |
| ACCESSORIES :   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   | G.I. WIRE INSECT SCREEN   |
| LOCATION :      | 2F, 3F, 4F LOUNGE AREA    | TOILET                    | 2F,3F,F4 ROOM             | 2F,3F,F4 ROOM             | TOILET                    |
| QUANTITY :      | THREE (3) SETS            | NINE (9) SETS             | NINE (9) SETS             | SIX (6) SETS              | SIX (6) SETS              |



W9

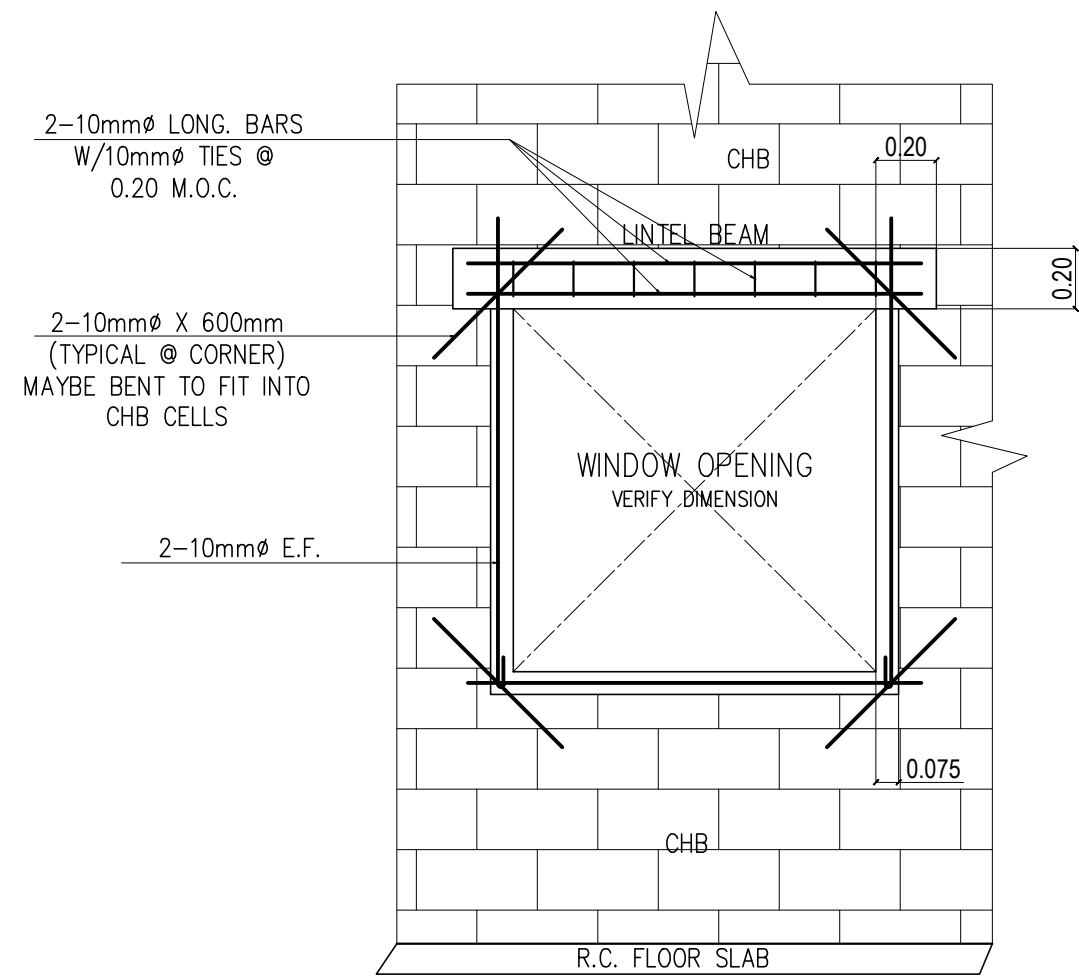
|                 |                           |
|-----------------|---------------------------|
| TYPE :          | FIXED WINDOW              |
| FRAME :         | ALUMINUM FRAME            |
| FINISH :        | POWDERCOATED              |
| GLAZING/PANEL : | 6mm THK. REFLECTIVE GLASS |
| JAMB :          |                           |
| HINGES/TRACK :  |                           |
| LOCKSET :       |                           |
| ACCESSORIES :   | G.I. WIRE INSECT SCREEN   |
| LOCATION :      | DEPUTY COMMANDER OFFICE   |
| QUANTITY :      | ONE (1) SET               |



2  
A-11

DOOR OPENING DETAIL

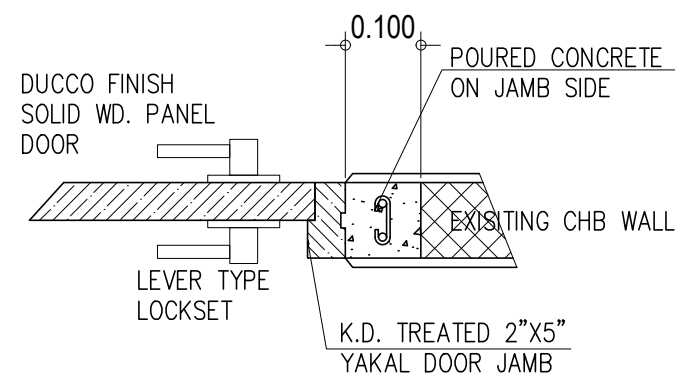
SCALE 1: 25 MTS



3  
A-11

WINDOW OPENING DETAIL

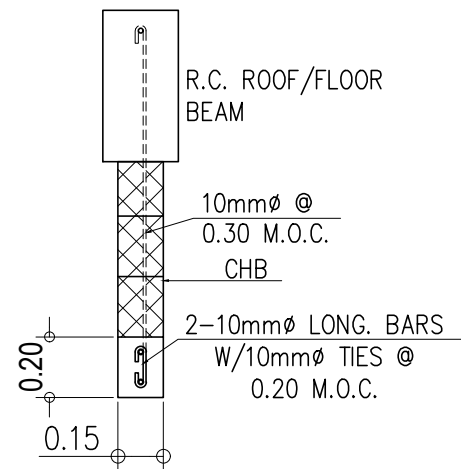
SCALE 1: 25 MTS



4  
A-11

DOOR JAMB DETAIL

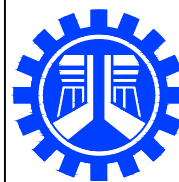
SCALE 1: 10 MTS



5  
A-11

LINTEL BEAM DETAIL

SCALE 1: 10 MTS



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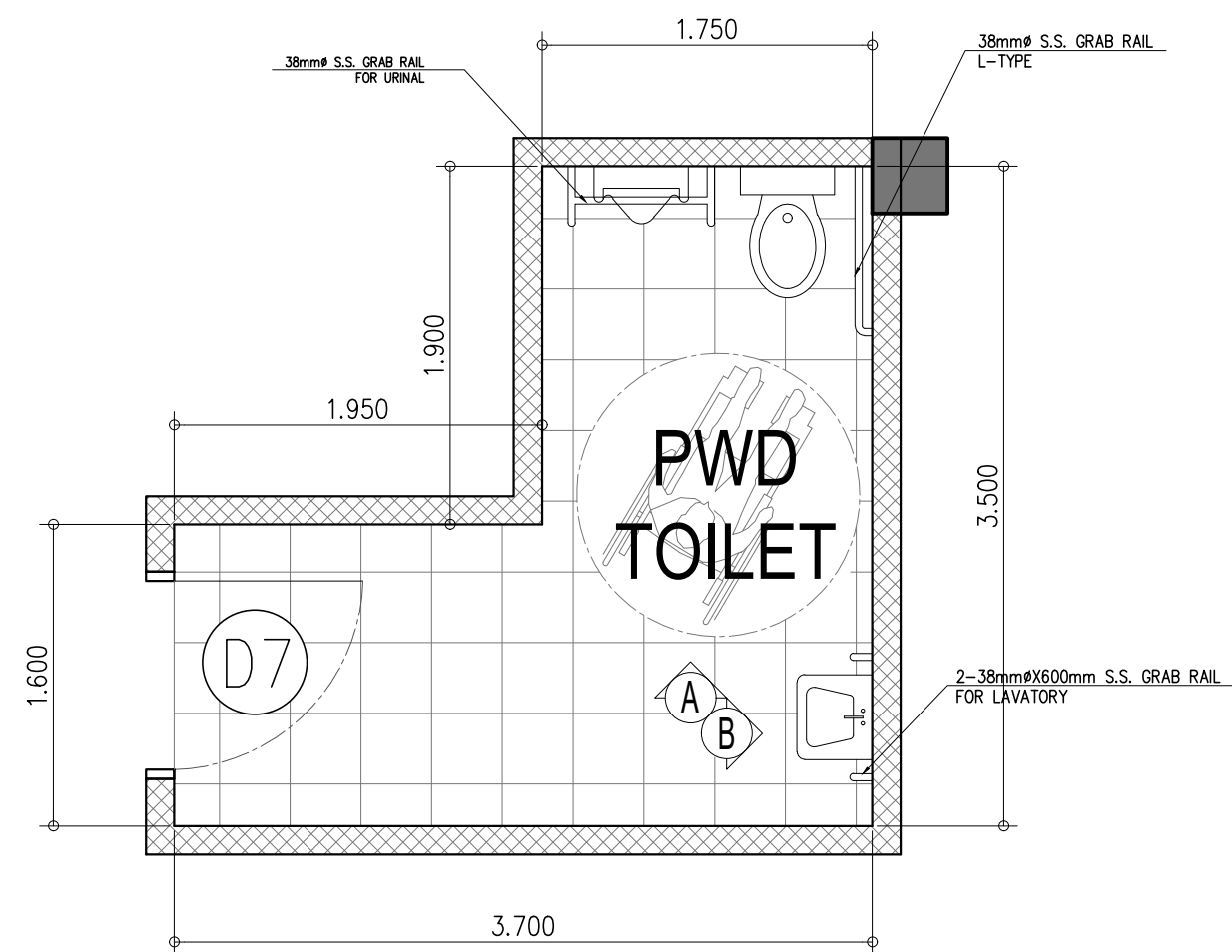
REVIEWED & SUBMITTED :  
  
GEMMA L. OLAN  
CHIEF  
PLANNING & DESIGN SECTION  
DATE :

RECOMMENDED :  
  
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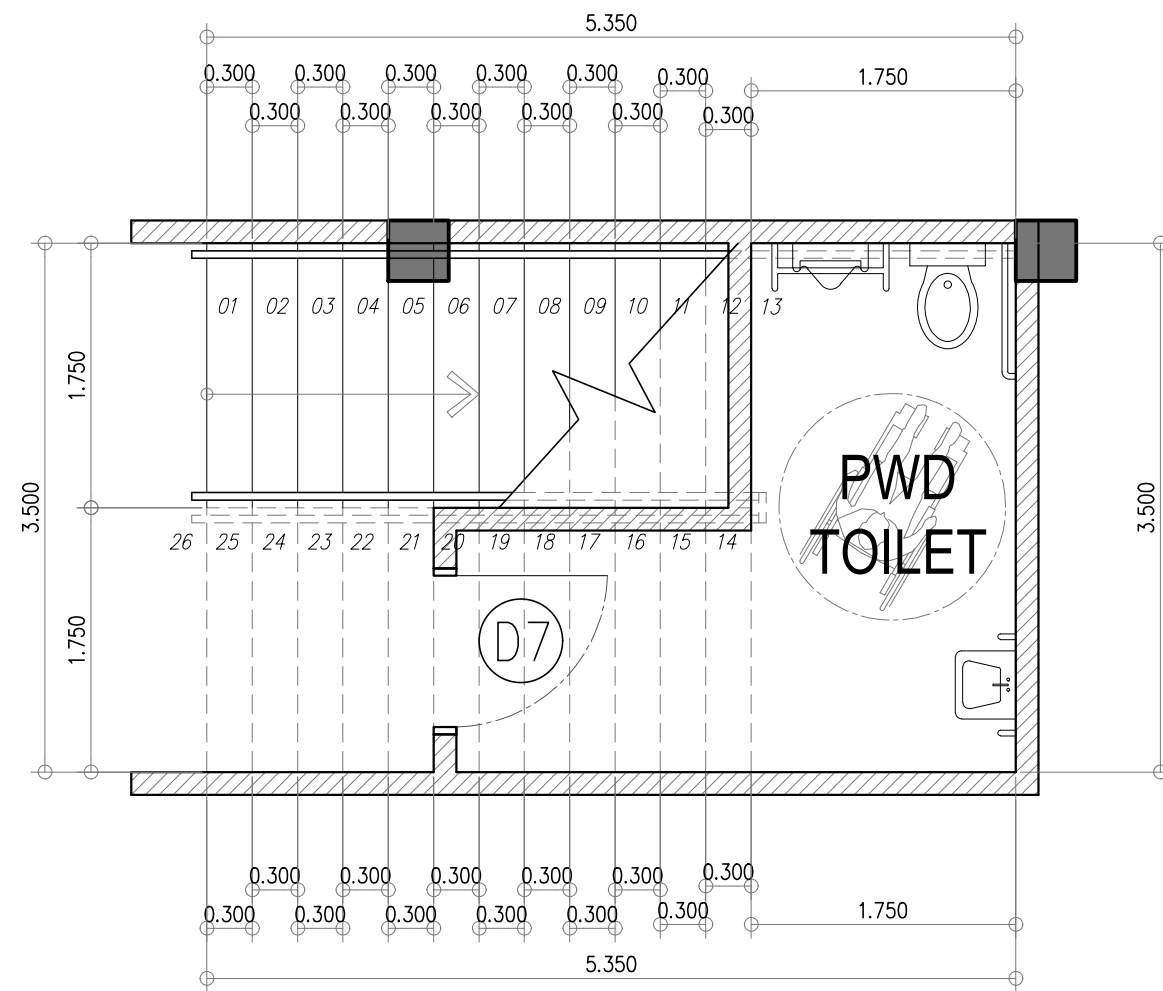
APPROVED :  
  
SONIA D. PAGLICAUAN  
DISTRICT ENGINEER  
DATE :

SHEET CONTENT :  
SCHEDULE OF WINDOWS  
DOOR OPENING DETAIL  
WINDOW OPENING DETAIL  
DOOR JAMB DETAIL  
LINTEL BEAM DETAIL

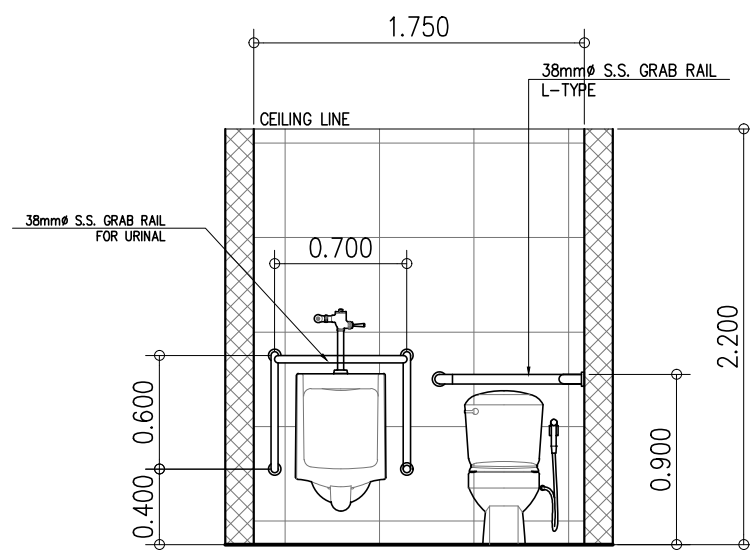
A-11



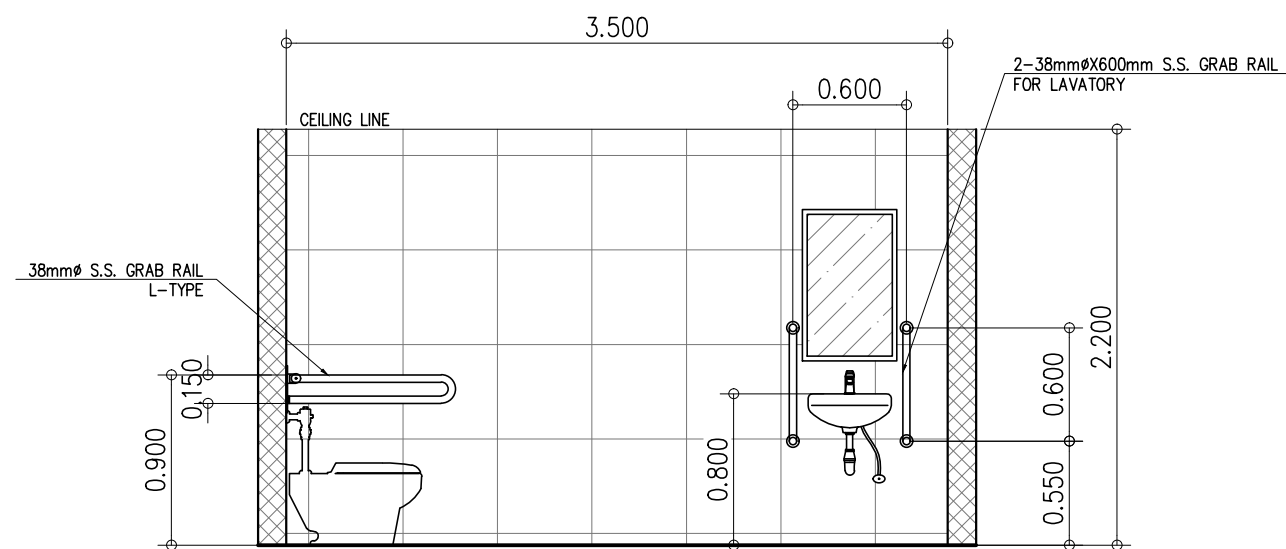
1 PWD TOILET PLAN  
A-12 SCALE 1:40 MTS.



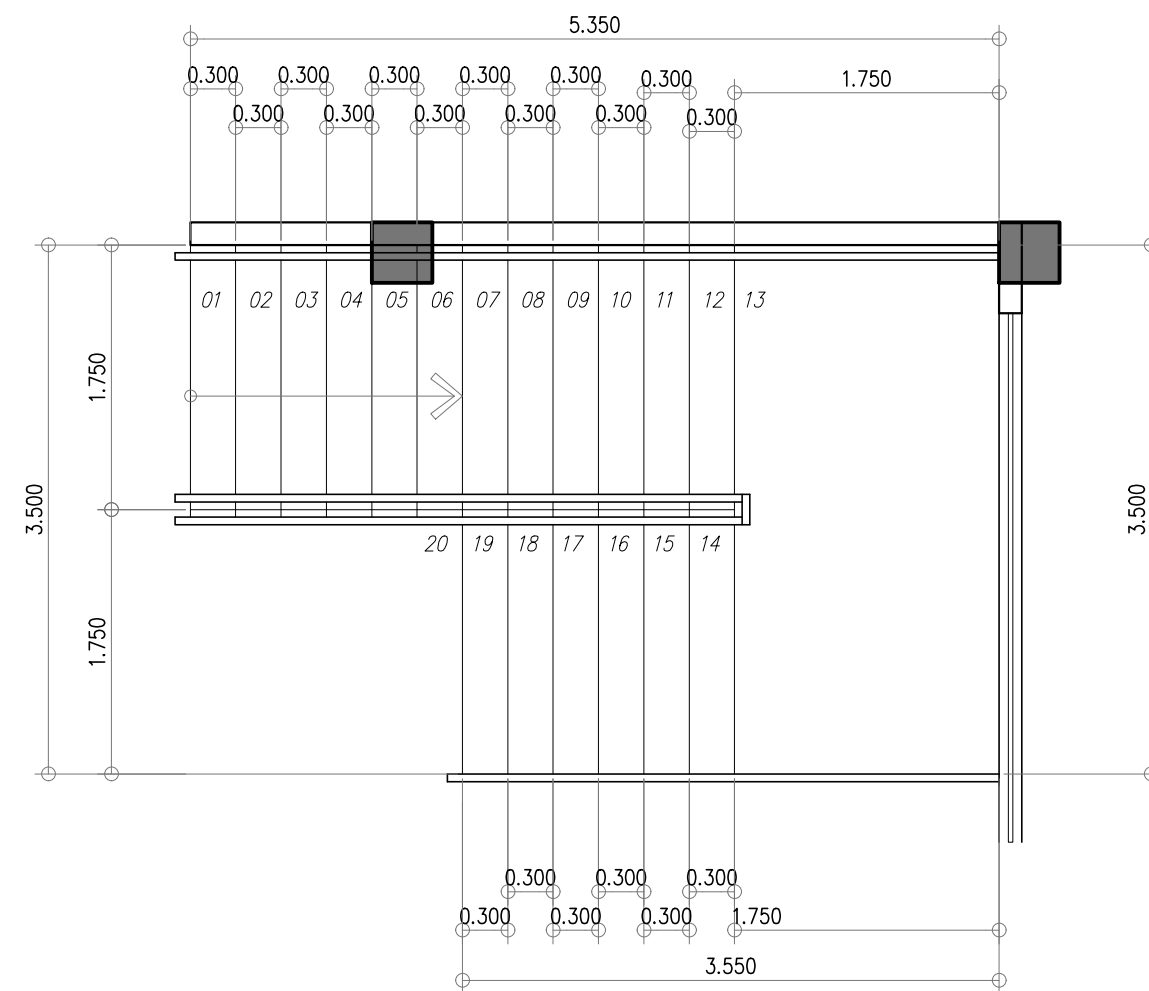
4 GROUND FLOOR  
MAIN STAIR BLOW - UP PLAN  
A-12 SCALE 1:50 MTS



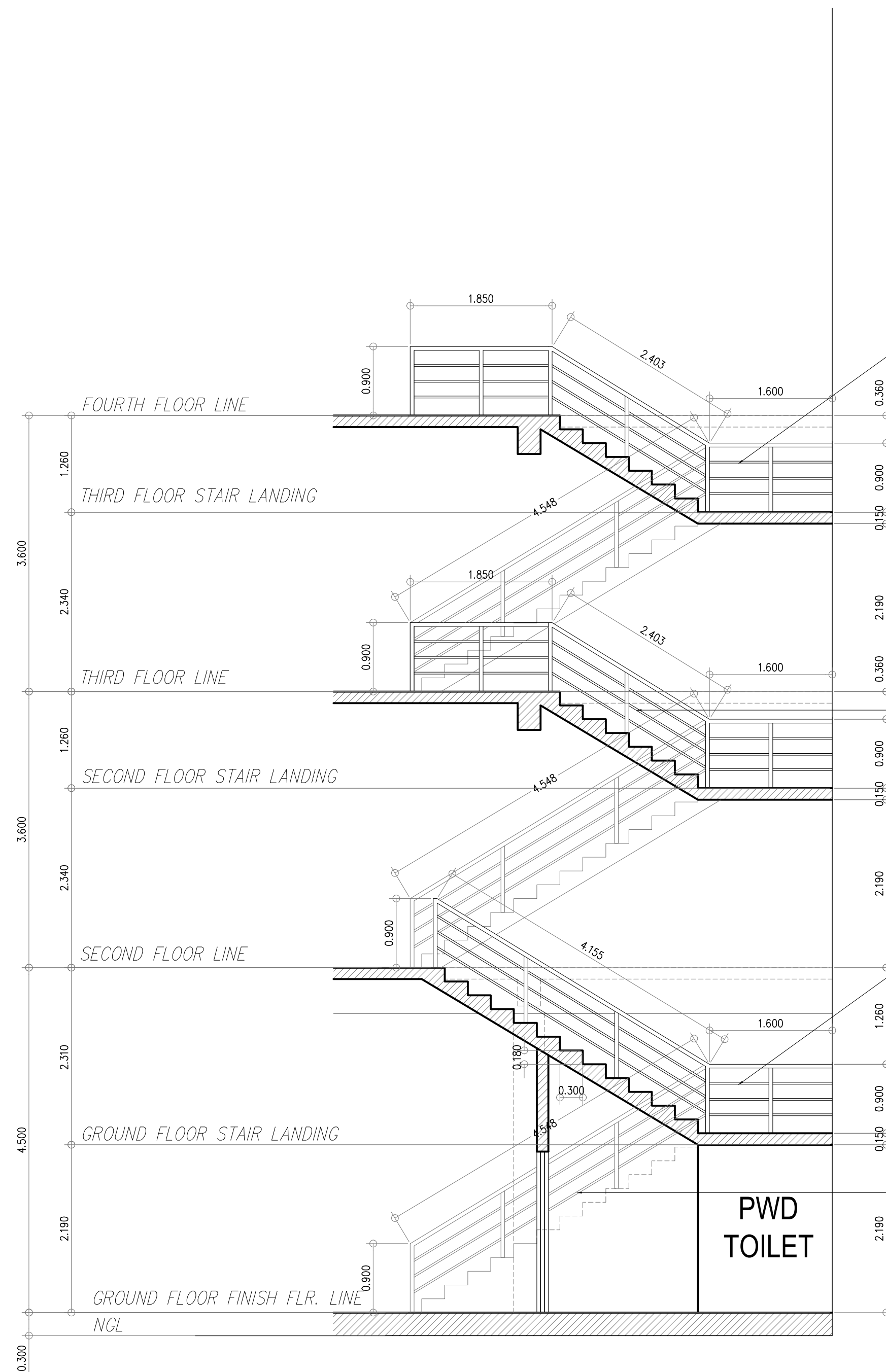
2 PWD TOILET  
SECTION ELEVATION THRU "A"  
A-12 SCALE 1:40 MTS.



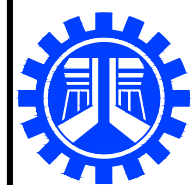
3 PWD TOILET  
SECTION ELEVATION THRU "B"  
A-12 SCALE 1:40 MTS.



5 SECOND FLOOR TO FOURTH FLOOR  
MAIN STAIR BLOW - UP PLAN  
A-12 SCALE 1:50 MTS



6 MAIN STAIR ELEVATION DETAIL  
A-12 SCALE 1:50 MTS



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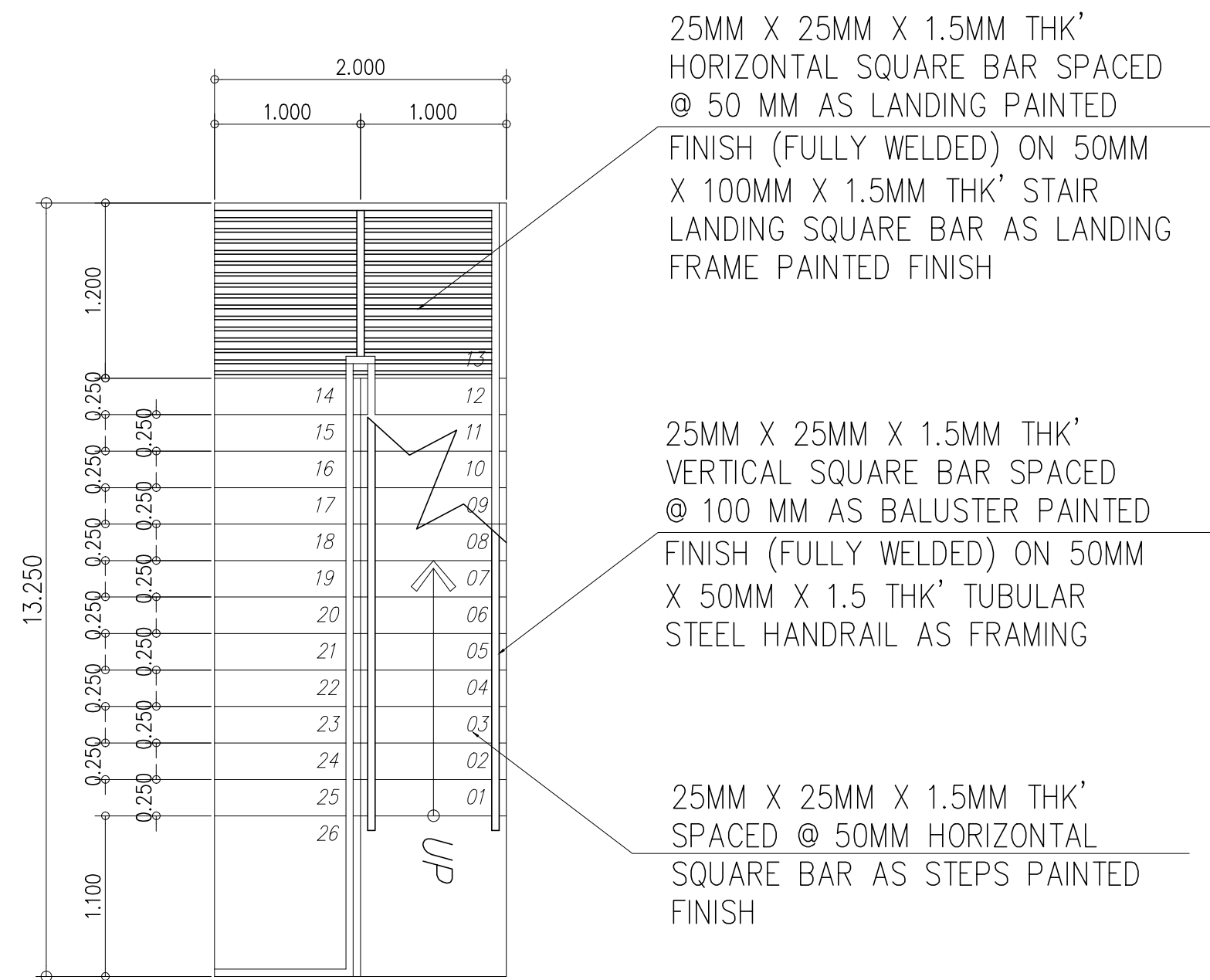
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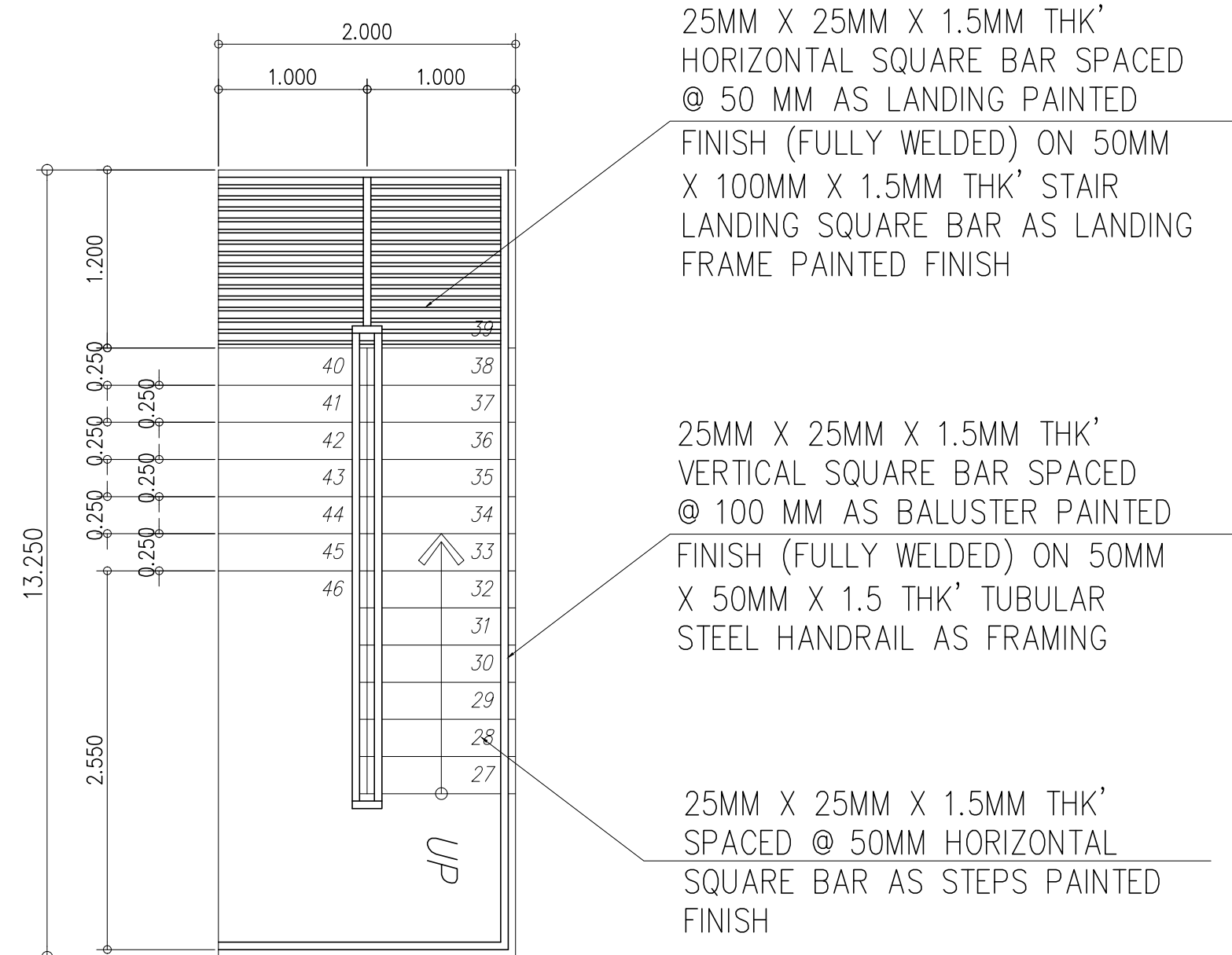
APPROVED :  
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DISTRICT ENGINEER  
DATE :

SHEET CONTENT :  
PWD TOILET PLAN  
PWD TOILET SECTION ELEVATION  
THRU "A"  
PWD TOILET SECTION ELEVATION  
THRU "B"  
GF MAIN STAIR BLOW UP PLAN  
2F-4F MAIN STAIR BLOW UP PLAN  
MAIN STAIR ELEVATION DETAIL

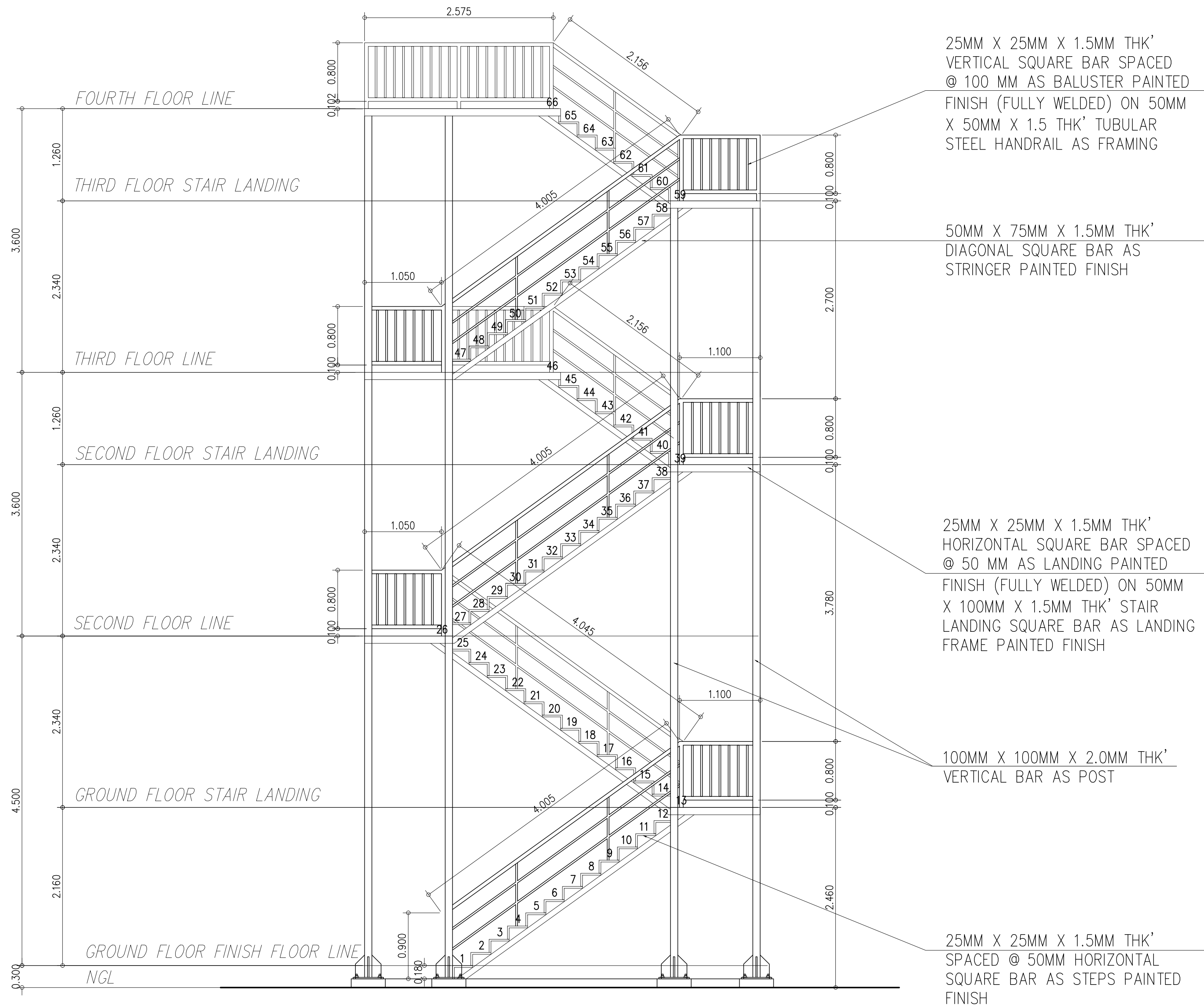
SHEET NO.:  
A-12



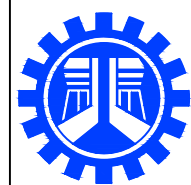
1  
A-13  
GROUND FLOOR – RIGHT SIDE  
**FIRE EXIT STAIR BLOW - UP PLAN**  
SCALE 1:40 MTS



2  
A-13  
SECOND FLOOR TO FOURTH FLOOR – RIGHT SIDE  
**FIRE EXIT STAIR BLOW - UP PLAN**  
SCALE 1:40 MTS



3  
A-13  
RIGHT SIDE ELEVATION  
**FIRE EXIT STAIR ELEVATION DETAIL**  
SCALE 1:40 MTS



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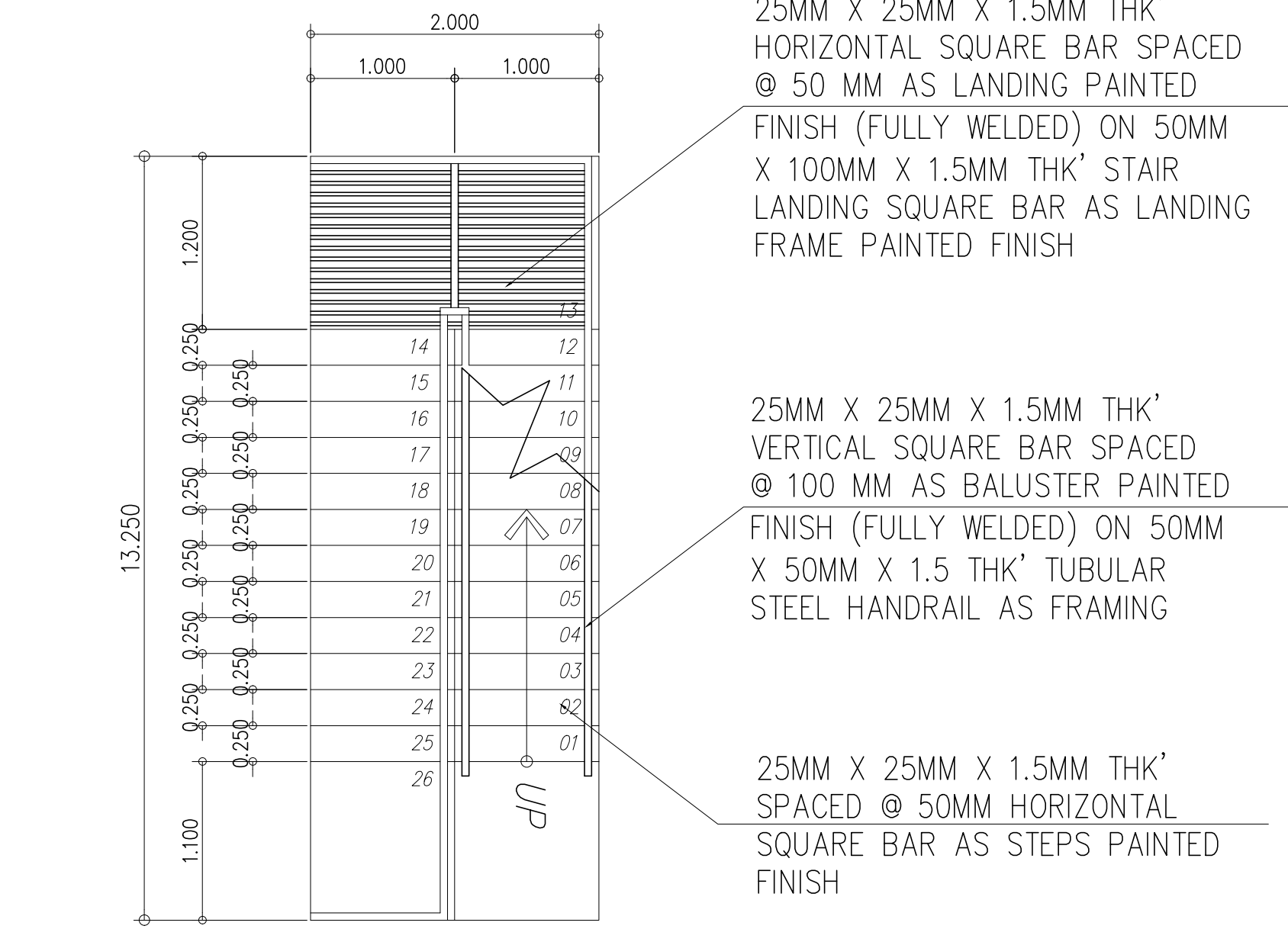
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DATE :

RECOMMENDED :  
ARIEL V. ARMEDILLA  
ASSISTANT DISTRICT ENGINEER  
DATE :

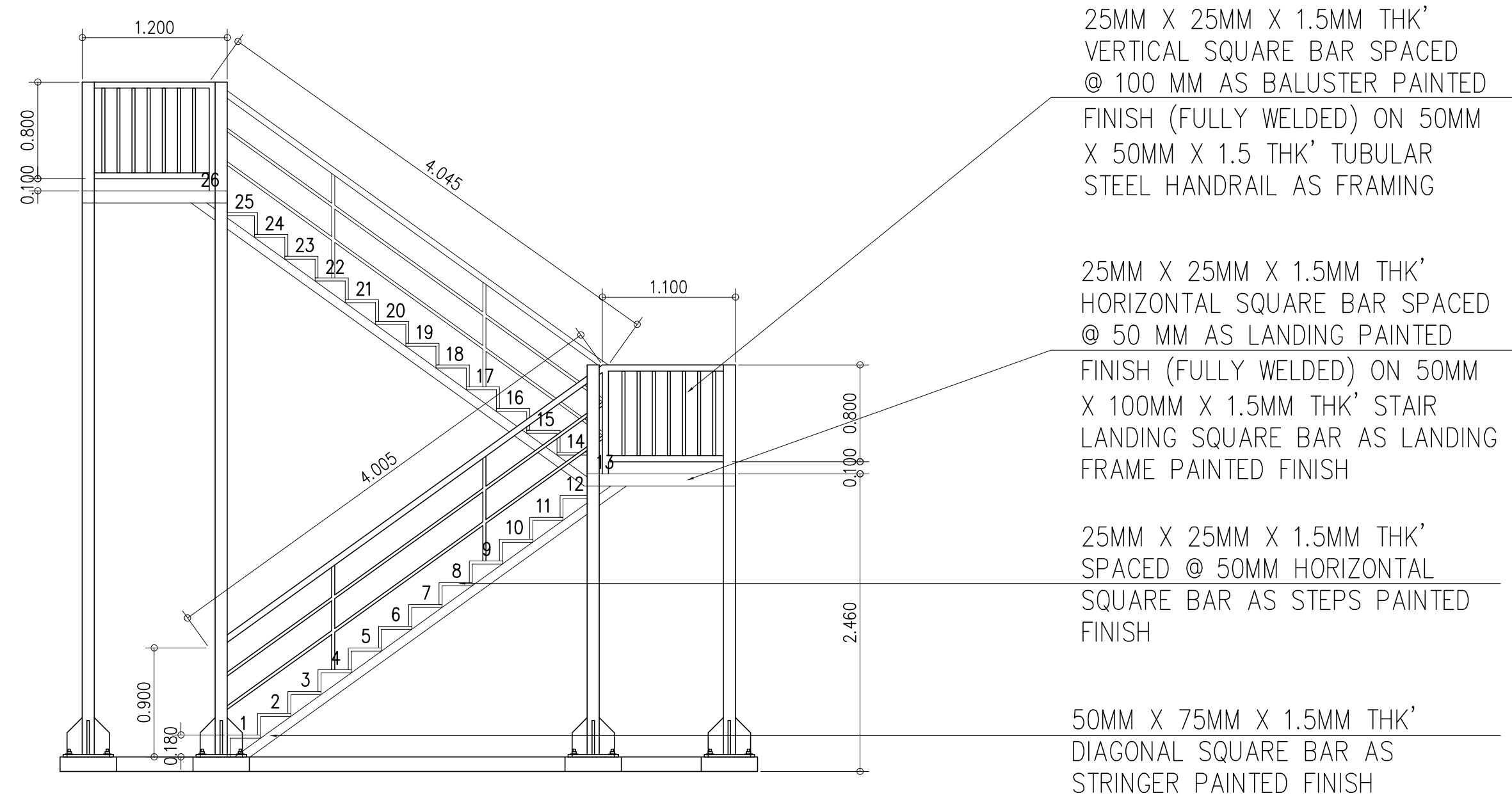
APPROVED :  
SONIA D. PAGLICAUAN  
DISTRICT ENGINEER  
DATE :

SHEET CONTENT :  
GF FIRE EXIT STAIR BLOW UP PLAN  
2F- 4F FIRE EXIT STAIR BLOW UP PLAN  
FIRE EXIT STAIR ELEVATION DETAIL

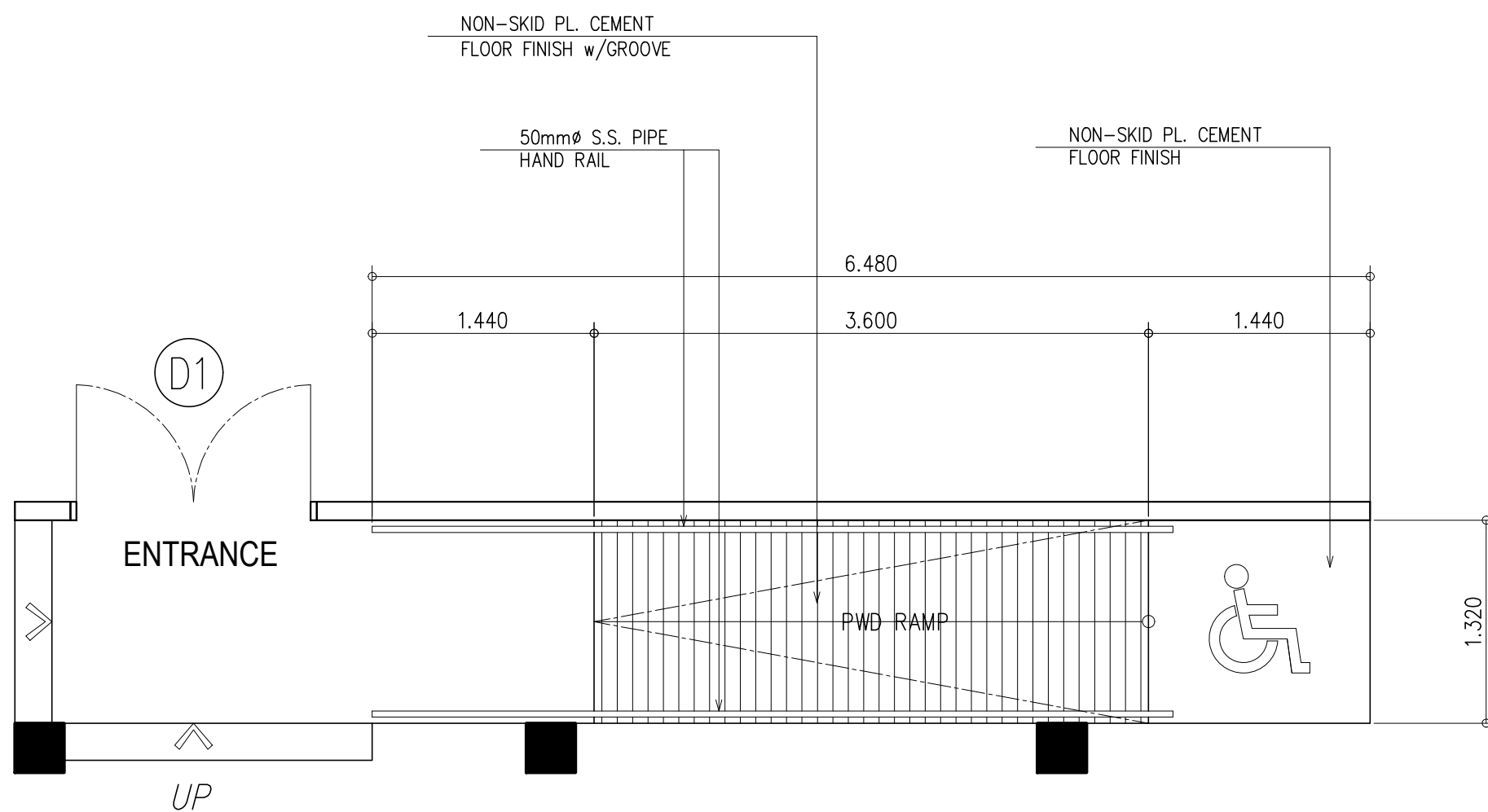
A-13



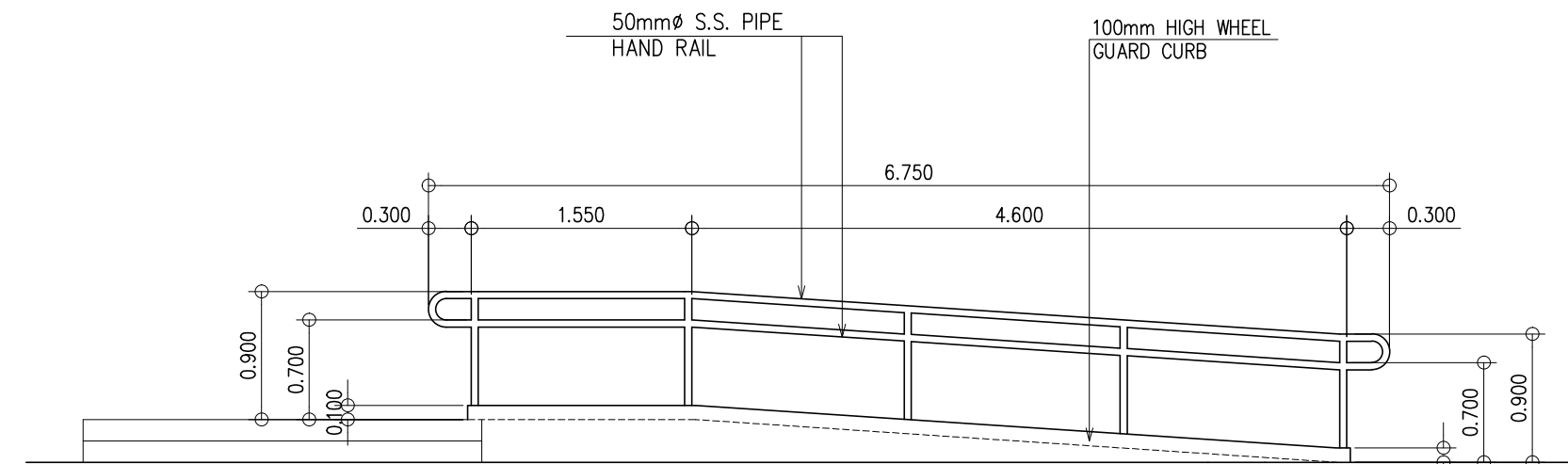
1  
A-14  
GROUND FLOOR – REAR SIDE ELEVATION  
**FIRE EXIT STAIR BLOW - UP PLAN**  
SCALE 1: 40 MTS



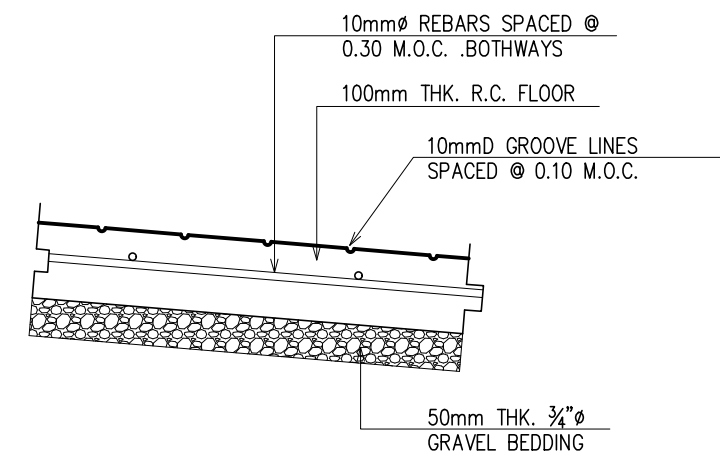
2  
A-14  
REAR ELEVATION  
**FIRE EXIT STAIR ELEVATION DETAIL**  
SCALE 1: 40 MTS



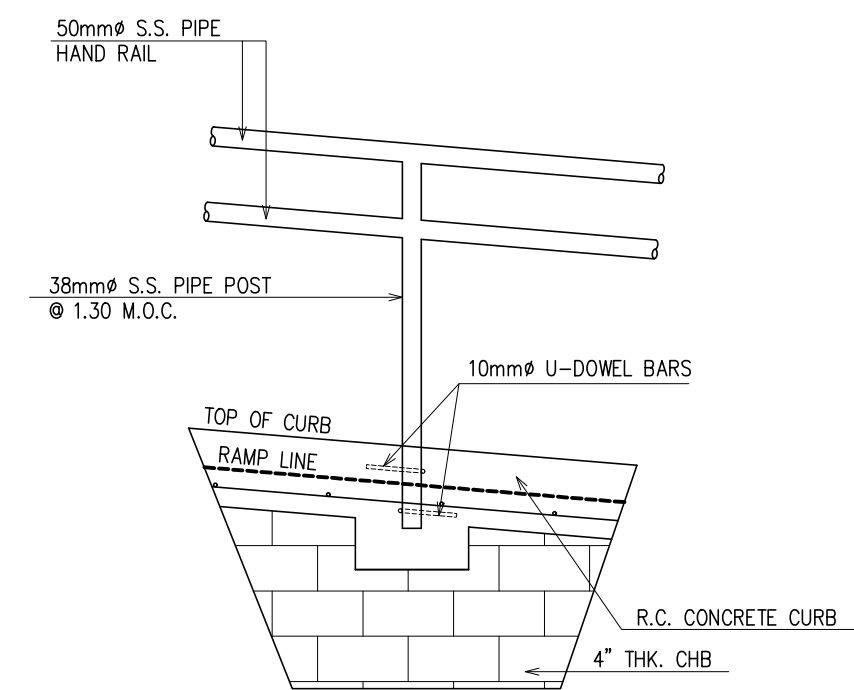
3  
A-14  
**PWD RAMP PLAN**  
SCALE 1 : 50 MTS.



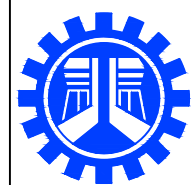
4  
A-14  
**PWD RAMP FRONT ELEVATION**  
SCALE 1 : 50 MTS.



5  
A-14  
**PWD RAMP GROOVE LINE DETAIL**  
SCALE 1:10 MTS.



6  
A-14  
**HANDRAIL POST DETAIL**  
SCALE 1:50 MTS.



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. IV-A  
BATANGAS 2<sup>ND</sup> DISTRICT ENGINEERING OFFICE  
KUMINTANG ILAYA, BATANGAS CITY

PROJECT TITLE / LOCATION :  
CY 2025 PROJECT  
CONVERGENCE AND SPECIAL SUPPORT PROGRAM,  
BASIC INFRASTRUCTURE PROGRAM (BIP),  
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES,  
CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDINGS  
(LIVING QUARTERS) OF PHILIPPINE COAST GUARD SOUTHERN TAGALOG,  
BARANGAY STA. CLARA, BATANGAS CITY

CAD AND DESIGNED BY:  
MA. JESSA ANN M. CABALLES  
ARCHITECT II (JO)  
DATE :

CHECKED BY:  
JACINTO T. MACARAIG  
ARCHITECT II  
DATE :

REVIEWED & SUBMITTED :  
GEMMA L. OLAN  
CHIEF  
PLANNING & DESIGN SECTION  
DATE :

RECOMMENDED :  
ARIEL V. ARMEDILLA  
ASSISTANT DISTRICT ENGINEER  
DATE :

APPROVED :  
SONIA D. PAGLICAUAN  
DISTRICT ENGINEER  
DATE :

SHEET CONTENT :  
REAR FIRE EXIT STAIR BLOW UP PLAN  
REAR FIRE EXIT STAIR  
ELEVATION DETAIL  
PWD RAMP PLAN  
PWD RAMP FRONT ELEVATION  
PWD RAMP GROOVE LINE DETAIL  
HANDRAIL POST DETAIL

SHEET NO.:  
**A-14**

# GENERAL CONSTRUCTION NOTES

## ENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTIONS, LOCATION OF DRAINS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI.318\_95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

## OTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

| LOCATION                               | 28 DAYS STRENGTH    | MAX. SIZE OF AGGREGATE | MAX. SLUMP |
|----------------------------------------|---------------------|------------------------|------------|
| ALL OTHERS, INCLUDING SUSPENDED SLABS, | 4000 PSI (27.6 MPa) | 20mm                   | 100mm      |
| COLUMNS                                | 4000 PSI (27.6 MPa) | 20mm                   | 100mm      |
| BEAMS, SLABS                           | 4000 PSI (27.6 MPa) | 20mm                   | 100mm      |
| SLAB ON FILL                           | 3000 PSI (27.6 MPa) | 20mm                   | 100mm      |

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

|                                                             |      |
|-------------------------------------------------------------|------|
| SUSPENDED SLABS                                             | 20mm |
| SLAB ON GRADE                                               | 40mm |
| WALLS ABOVE GRADE                                           | 25mm |
| BEAM STIRRUPS AND COLUMN TIES                               | 40mm |
| WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS | 50mm |
| WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH          | 75mm |
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HAND LING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS IS EXTREMELY DIFFICULT TO ACCOMPLISH.
- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:

|                                                         |         |
|---------------------------------------------------------|---------|
| FOUNDATION                                              | 24 HRS. |
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED | 8 DAYS  |
| WALLS                                                   | 21 DAYS |
| BEAMS                                                   | 14 DAYS |
| COLUMNS                                                 | 21 DAYS |
- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

## OTES ON FOOTINGS

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 96 KPa (2000 psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

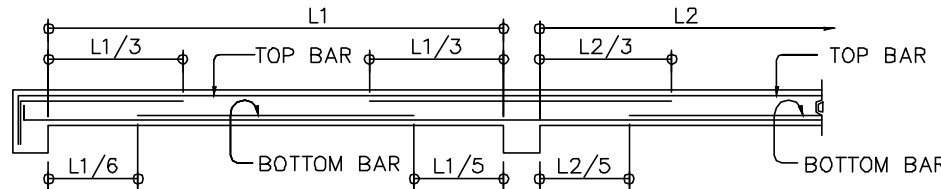
## NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:

|                                                                                                          |                               |
|----------------------------------------------------------------------------------------------------------|-------------------------------|
| A. FOOTINGS, FOOTING BEAMS AND GIRDERS                                                                   | fy = 275 MPa ( 60,000 psi )   |
| B. COLUMNS AND SHEAR WALLS                                                                               | fy = 275 MPa ( 60,000 psi )   |
| C. BEAMS AND GIRDER                                                                                      | fy = 275 MPa ( 60,000 psi )   |
| D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK. | fy = 227.5 MPa ( 33,000 psi ) |
- ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

## NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

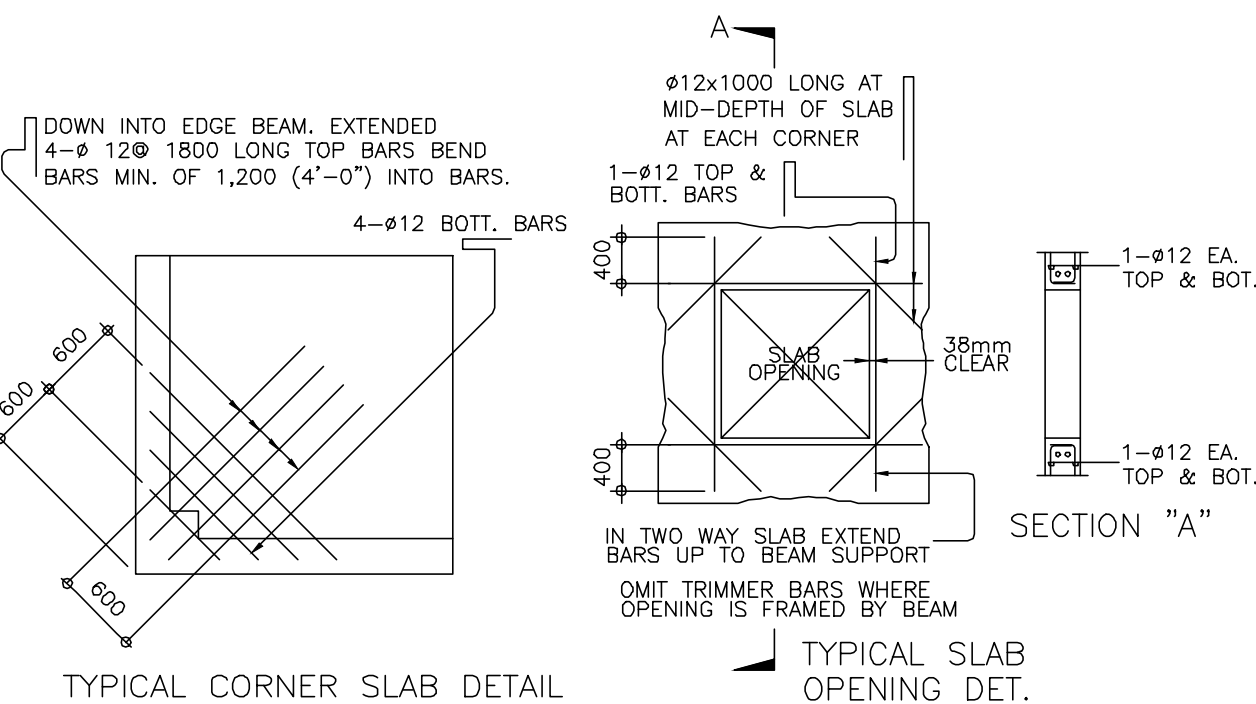


## TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

- IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS-SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW)

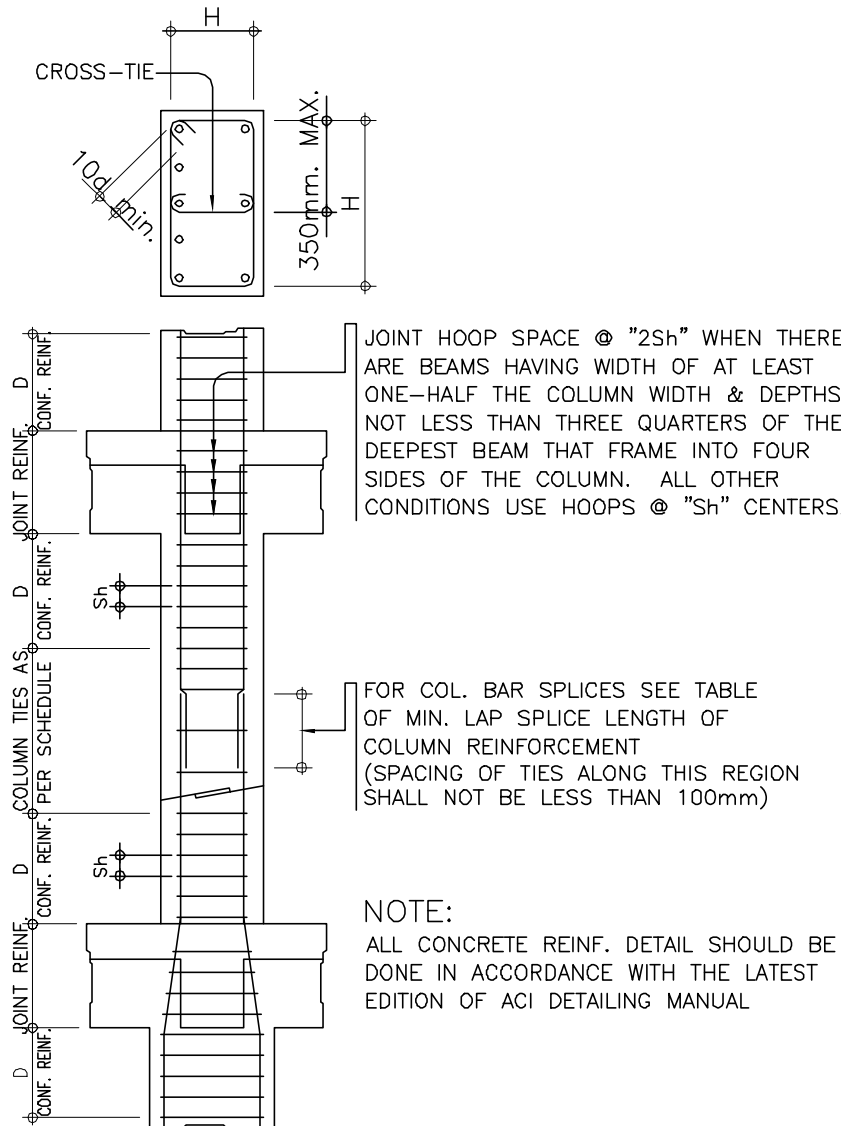
| SCHEDULE OF MINIMUM SLAB REINFORCEMENT |                               |
|----------------------------------------|-------------------------------|
| THICKNESS                              | MINIMUM TEMPERATURE BARS      |
| 100 mm                                 | 10 mm $\phi$ @ 250mm EACH WAY |
| 125 mm                                 | 10 mm $\phi$ @ 225mm EACH WAY |
| 150 mm                                 | 10 mm $\phi$ @ 185mm EACH WAY |
| 175 mm                                 | 10 mm $\phi$ @ 150mm EACH WAY |
| 200 mm                                 | 10 mm $\phi$ @ 140mm EACH WAY |

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm  $\phi$  AT 250mm O.C EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm $\phi$  STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS

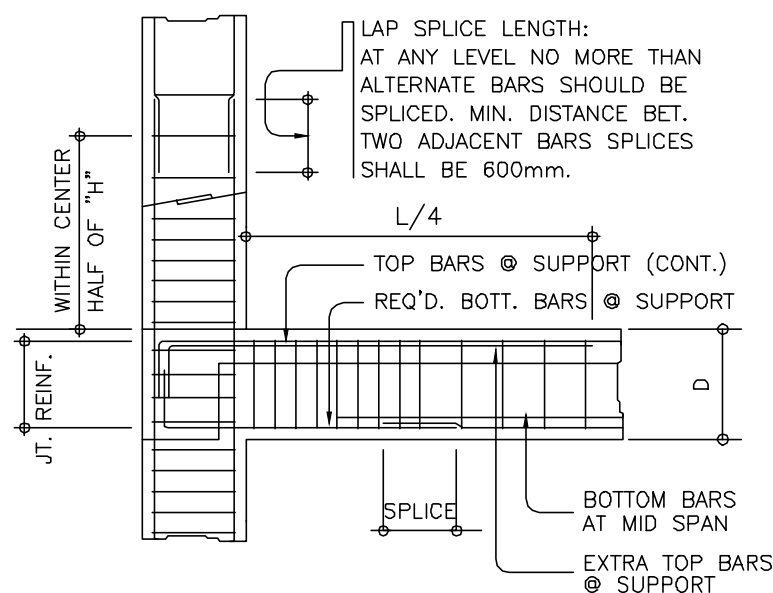


## NOTES ON COLUMNS

- PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
- GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR, NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

## NOTES ON BEAMS AND GIRDERS

- UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIDER AT LEAST 6mm $\phi$  FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

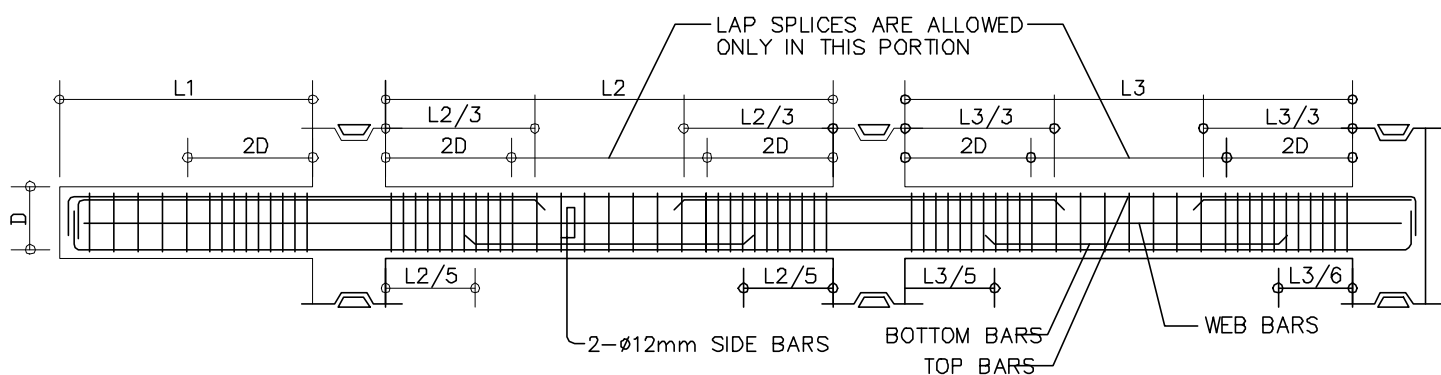


FIG. B-1

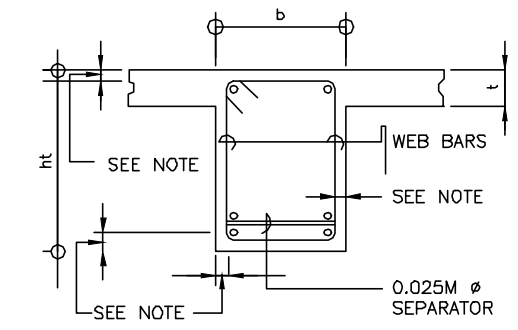
| TABLE 'A'<br>TENSION BARS<br>EMBEDMENT LENGTHS AND<br>LAPPED SPLICED IN MILLIMETERS |                       |                       |                       |                       |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| BAR SIZE<br>(DEFORMED)                                                              | f'c= 20.7MPa(3000psi) | f'c= 27.6MPa(4000psi) | f'c= 20.7MPa(3000psi) | f'c= 27.6MPa(4000psi) |
| EMBEDMENT                                                                           | LAPPED                | EMBEDMENT             | LAPPED                |                       |
| 10mm $\phi$                                                                         | 300                   | 300                   | 300                   | 300                   |
| 12mm $\phi$                                                                         | 300                   | 300                   | 300                   | 300                   |
| 16mm $\phi$                                                                         | 300                   | 400                   | 300                   | 400                   |
| 20mm $\phi$                                                                         | 400                   | 550                   | 350                   | 500                   |
| 25mm $\phi$                                                                         | 600                   | 800                   | 550                   | 750                   |
| 28mm $\phi$                                                                         | 750                   | 1000                  | 650                   | 850                   |
| 32mm $\phi$                                                                         | 950                   | 1300                  | 850                   | 1100                  |

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

| TABLE 'B'<br>COMPRESSION BARS<br>EMBEDMENT LENGTHS AND<br>LAPPED SPLICED IN MILLIMETERS |                       |                       |                       |                       |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| BAR SIZE<br>(DEFORMED)                                                                  | f'c= 20.7MPa(3000psi) | f'c= 27.6MPa(4000psi) | f'c= 20.7MPa(3000psi) | f'c= 27.6MPa(4000psi) |
| EMBEDMENT                                                                               | LAPPED                | EMBEDMENT             | LAPPED                |                       |
| 10mm $\phi$                                                                             | 225                   | 300                   | 200                   | 300                   |
| 12mm $\phi$                                                                             | 275                   | 300                   | 250                   | 300                   |
| 16mm $\phi$                                                                             | 350                   | 400                   | 325                   | 400                   |
| 20mm $\phi$                                                                             | 450                   | 500                   | 475                   | 500                   |
| 25mm $\phi$                                                                             | 550                   | 625                   | 550                   | 625                   |
| 28mm $\phi$                                                                             | 625                   | 675                   | 625                   | 675                   |
| 32mm $\phi$                                                                             | 700                   | 775                   | 700                   | 775                   |

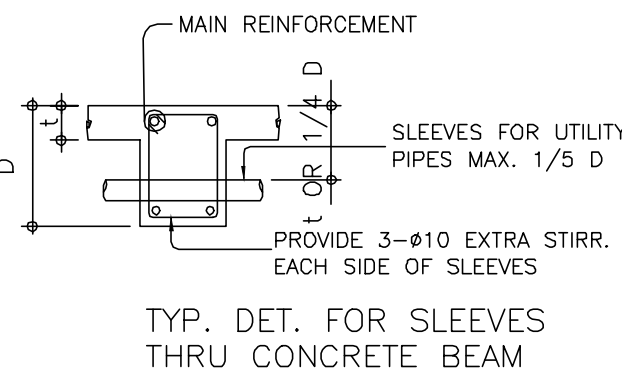
NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2  
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mm $\phi$  BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1  
20 mm CLEAR FOR JOIST  
40 mm CLEAR FOR BEAMS  
AND GIRDERS

FIG. B-2



TYP. DET. FOR SLEEVES  
THRU CONCRETE BEAM

FIG. B-3

|  |                                                                                                                                                                                                                                                                                                                                    |                                               |                                |                                                     |                                                   |                                          |                            |            |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------|------------|
|  | PROJECT TITLE / LOCATION :                                                                                                                                                                                                                                                                                                         | CAD BY:                                       | PREPARED BY :                  | REVIEWED & SUBMITTED :                              | RECOMMENDED :                                     | APPROVED :                               | SHEET CONTENT :            | SHEET NO.: |
|  | CY 2025 PROJECT<br>CONVERGENCE AND SPECIAL SUPPORT PROGRAM.<br>BASIC INFRASTRUCTURE PROGRAM (BIP).<br>MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES.<br>CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDINGS<br>(LIVING QUARTERS) OF PHILIPPINE COAST GUARD SOUTHERN TAGALOG,<br>BARANGAY STA. CLARA, BATANGAS CITY | MA. JESSA ANN M. CABALLES<br>ARCHITECT I (JO) | MYLEN M. MANALO<br>ENGINEER II | GEMMA L. OLAN<br>CHIEF<br>PLANNING & DESIGN SECTION | ARIEL V. ARMEDILLA<br>ASSISTANT DISTRICT ENGINEER | SONIA D. PAGLICAUAN<br>DISTRICT ENGINEER | GENERAL CONSTRUCTION NOTES | S-01       |
|  | DATE :                                                                                                                                                                                                                                                                                                                             | DATE :                                        | DATE :                         | DATE :                                              | DATE :                                            | DATE :                                   |                            |            |
|  |                                                                                                                                                                                                                                                                                                                                    |                                               |                                |                                                     |                                                   |                                          |                            |            |

# GENERAL CONSTRUCTION NOTES

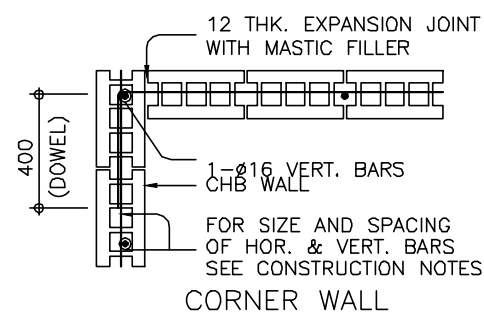
## NOTES ON CONCRETE HOLLOW BLOCK WALLS

- UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mm $\phi$  TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

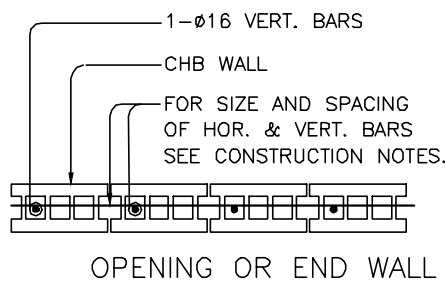
| BLOCK THICKNESS | REINFORCEMENT            |                          | NOTES                                                                                                                                           |
|-----------------|--------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | HORIZONTAL               | VERTICAL                 |                                                                                                                                                 |
| 75 mm           | 10mm $\phi$ @ 600mm O.C. | 10mm $\phi$ @ 600mm O.C. | A. MINIMUM LAPS AT SPICE = 0.25M<br>B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG                                                 |
| 125 mm          | 10mm $\phi$ @ 600mm O.C. | 10mm $\phi$ @ 600mm O.C. | C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED |
| 150 mm          | 10mm $\phi$ @ 600mm O.C. | 10mm $\phi$ @ 600mm O.C. |                                                                                                                                                 |
| 200 mm          | 12mm $\phi$ @ 600mm O.C. | 12mm $\phi$ @ 600mm O.C. |                                                                                                                                                 |

## REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

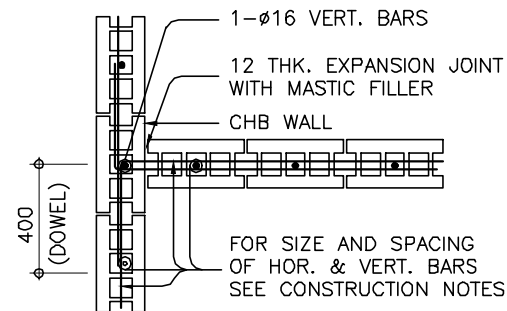
| LINTELS IN BLOCK WALLS |                        |                   |                       |               |       |               |
|------------------------|------------------------|-------------------|-----------------------|---------------|-------|---------------|
| CLEAR SPAN (L')        | TOTAL LENGTH (L+0.40M) | MIN. $f_c'$ (MPa) | HEIGHT OF LINTEL (MM) | REINFORCEMENT |       |               |
|                        |                        |                   |                       | BOTTOM        | TOP   | STIRRUPS      |
| 1.20M                  | 1.60M                  | 14.0              | 200                   | 1-#10         | 1-#10 | #6mm @ 200mm  |
| 1.50M                  | 1.90M                  |                   | 200                   | 1-#10         | 1-#10 | #6mm @ 200mm  |
| 1.80M                  | 2.20M                  |                   | 200                   | 1-#12         | 1-#10 | #6mm @ 200mm  |
| 2.10M                  | 2.50M                  | 17.0              | 250                   | 1-#12         | 1-#10 | #6mm @ 200mm  |
| 2.40M                  | 2.90M                  |                   | 250                   | 1-#12         | 1-#10 | #6mm @ 200mm  |
| 2.70M                  | 3.10M                  |                   | 250                   | 1-#16         | 1-#12 | #10mm @ 200mm |
| 3.00                   | 3.40M                  | 20.0              | 300                   | 1-#16         | 1-#12 | #10mm @ 200mm |
| 3.30                   | 3.70M                  |                   | 300                   | 1-#16         | 1-#12 | #10mm @ 200mm |
| 3.60                   | 4.00                   |                   | 300                   | 1-#20         | 1-#12 | #10mm @ 200mm |



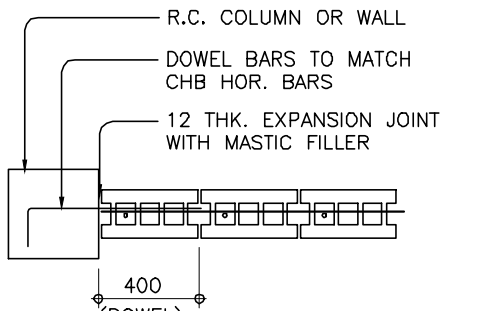
CORNER WALL



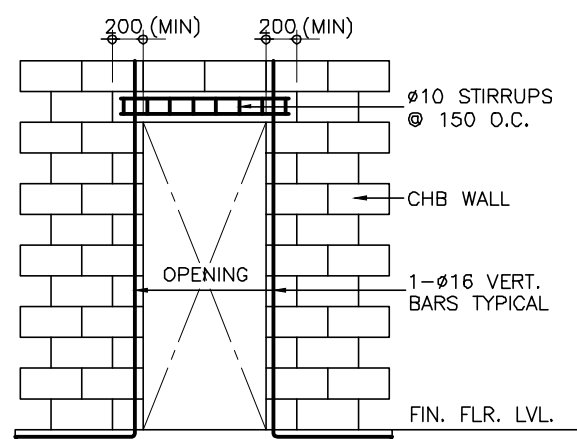
OPENING OR END WALL



INTERSECTION WALL

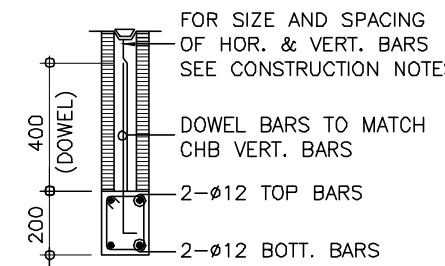


INTERSECTING R.C. COL. OR WALL

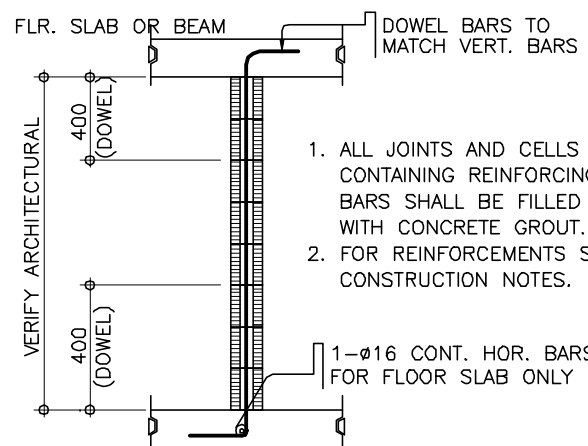


ELEVATION

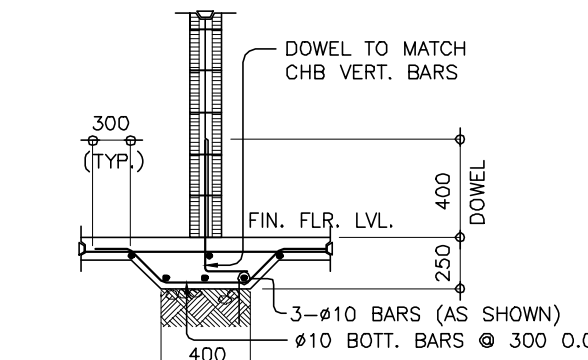
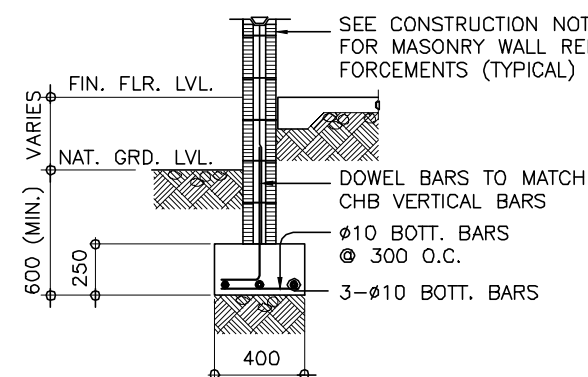
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



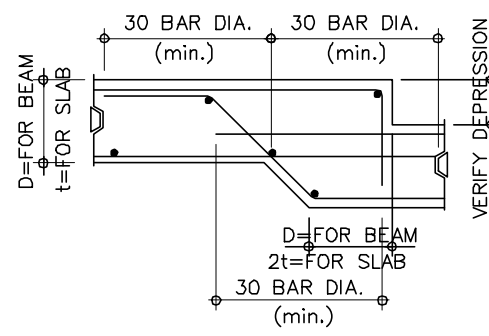
SECTION



TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



TYPICAL CHB FOOTING DETAILS ( WHERE APPLICABLE )



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

NOTE:  
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

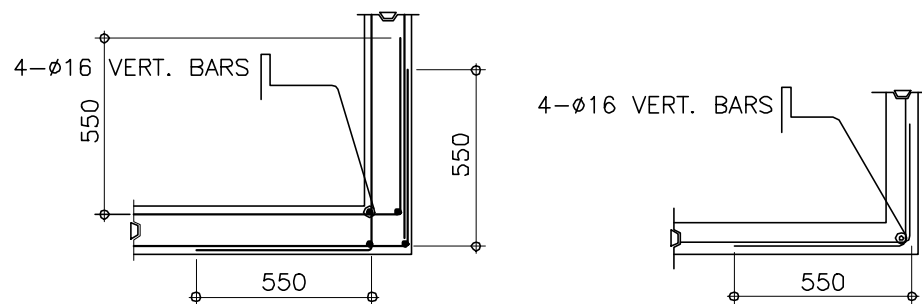
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE

## NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

| WALL THICKNESS | REINFORCEMENT            |                          |  | REMARKS                                                | VERTICAL SECTION       |
|----------------|--------------------------|--------------------------|--|--------------------------------------------------------|------------------------|
|                | HORIZONTAL               | VERTICAL                 |  |                                                        |                        |
| 100mm          | $\phi$ 10mm @ 250mm O.C. | $\phi$ 10mm @ 300mm O.C. |  | HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT | VERT. BARS HORIZ. BARS |
| 125mm          | $\phi$ 10mm @ 200mm O.C. | $\phi$ 10mm @ 250mm O.C. |  |                                                        |                        |
| 150mm          | $\phi$ 12mm @ 250mm O.C. | $\phi$ 12mm @ 300mm O.C. |  |                                                        |                        |

- REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.
- CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.
  - UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm $\phi$  BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mm $\phi$  FOR 125mm AND 100mm WALLS, USE 2-12mm $\phi$  BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

## NOTES ON WELDS

- USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

## NOTES ON STRUCTURAL STEEL

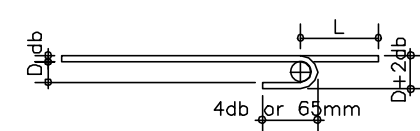
- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

## NOTES ON EMBEDDED PIPES

- ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN COLUMNS.

## DESIGN CRITERIA

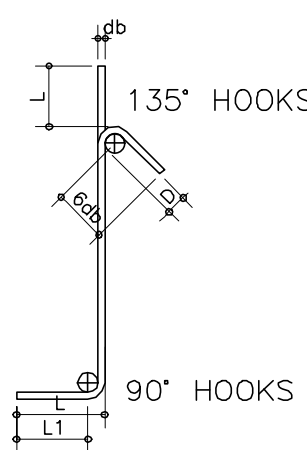
- LOADINGS
  - DEAD LOAD  
CONCRETE  $-23.56\text{ kN/m}^3$   
STEEL  $-76.93\text{ kN/m}^3$   
150mm THK. CHB WALL  $-2.73\text{ kPa}$   
100mm THK. CHB WALL  $-2.11\text{ kPa}$
  - LIVE ROAD ROOF  $-1.00\text{ kPa}$
  - WIND LOAD (NSCP 2010)  
BASIC WIND VELOCITY,  $V = 250\text{ KPH}$   
 $P = qh [(GcPf) - (Gcpi)]$  (DESIGN WIND PRESSURE)  
WHERE:  $qh$  = VELOCITY PRESSURE,  $\text{kPa}$   
 $Gcpi$  = EXTERNAL PRESSURE COEFFICIENT  
 $Gcpi$  = INTERNAL PRESSURE COEFFICIENT
  - SEISMIC LOAD (NSCP 2010)  
 $V = \frac{C_d}{R} W$  (DESIGN BASE SHEAR)  
 $V_{max} = \frac{2.50 C_d W}{R}$   $V_{min} = 0.11 C_d W$   
 $V_{min} = 0.80 Z N W$  (ZONE 4)  
WHERE:  $W$  = TOTAL DEAD LOAD  
 $T$  = NATURAL PERIOD =  $C_t (h_n)^{0.75}$  ;  
WHERE:  $C_t$  = NUMERICAL COEFFICIENT  
 $h$  = BUILDING HEIGHT  
 $I$  = IMPORTANCE FACTOR = 1.50  
 $R$  = NUMERICAL FACTOR = 8.50  
SEISMIC COEFFICIENT  $C_v = 0.44 N_v$   
 $C_d = 0.64 N$   
NEAR SOURCE FACTOR (10km)  $N_v = 1.2$   
 $N_d = 1.0$   
 $Z$  = SEISMIC ZONE = 0.40 (ZONE 4)  
 $S$  = SOIL TYPE = D



180° END HOOKS



90° END HOOKS



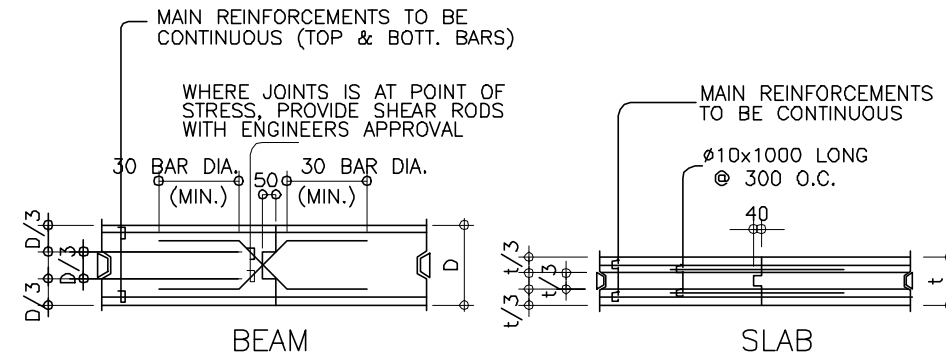
| MAIN BAR END HOOKS (ALL GRADES) |               |           |          |     |
|---------------------------------|---------------|-----------|----------|-----|
| BAR SIZE (DEFORMED)             | DIAMETER (mm) | 180° HOOK | 90° HOOK |     |
|                                 |               | D+2db     | L        | L   |
| 10mm $\phi$                     | 60            | 75        | 125      | 150 |
| 12mm $\phi$                     | 75            | 100       | 150      | 200 |
| 16mm $\phi$                     | 95            | 125       | 175      | 250 |
| 20mm $\phi$                     | 115           | 150       | 200      | 300 |
| 25mm $\phi$                     | 150           | 200       | 230      | 450 |
| 28mm $\phi$                     | 240           | 300       | 350      | 550 |
| 32mm $\phi$                     | 300           | 335       | 450      | 600 |

| STIRRUP AND TIE HOOKS (ALL GRADES) |               |           |          |     |
|------------------------------------|---------------|-----------|----------|-----|
| BAR SIZE (DEFORMED)                | DIAMETER (mm) | 180° HOOK | 90° HOOK |     |
|                                    |               | D+2db     | L        | L   |
| 10mm $\phi$                        | 40            | 125       | 85       | 100 |
| 12mm $\phi$                        | 50            | 165       | 115      | 115 |
| 16mm $\phi$                        | 65            | 200       | 140      | 150 |
| 20mm $\phi$                        | 115           | 250       | 165      | 300 |
| 25mm $\phi$                        | 150           | 365       | 230      | 405 |

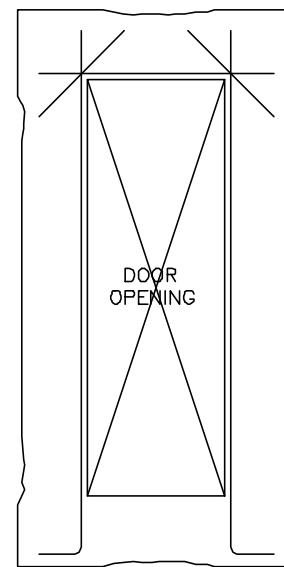
- DESIGN STRESSES
  - CONCRETE  
COMPRESSIVE STRENGTH @ 28 DAYS  $f_c' = 20.7\text{ MPa}$  (3,000 psi)
  - REINFORCING BARS
    - FOR BARS 16mm  $\phi$  AND GREATER  $f_y = 275\text{ MPa}$  (40,000 psi)
    - FOR BARS LESS THAN 16mm  $\phi$   $f_y = 230\text{ MPa}$  (33,000 psi)
  - STRUCTURAL STEEL, ASTM-A36 FOR TRUSSES, BRACINGS, & STRUTS  $f_y = 248\text{ MPa}$  (36,000 psi)
  - PURLINS  
COLD FORMED LIGHT GAGE SHAPES  $f_y = 248\text{ MPa}$  (36,000 psi)
  - MASONRY UNIT (CHB)  
NON-LOAD BEARING CHB WALLS  $f_m' = 3.45\text{ MPa}$  (500 psi)
  - WELDS-USED E-60xx ELECTRODE
  - STRUCTURAL BOLTS, ASTM-A307
    - $f_t = 96.60\text{ MPa}$  (14,000 psi)
    - $F_v = 69\text{ MPa}$  (10,000 psi)

## NOTES ON CONSTRUCTION JOINTS IN CONCRETE

- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



NOTE:  
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING  
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

TYP. EXTERIOR WINDOW & DOOR OPENING

## NOTES OF STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT PARCIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.

CHECKED, SIGNED & SEALED BY :

CIVIL/STRUCTURAL ENGINEER

PRC No. :

PTR No. :

Validity :

Place Issued :

Date Signed :

Date Issued :

SHEET CONTENT :

SHEET NO.:

GENERAL CONSTRUCTION NOTES

S-02



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. IV-A  
BATANGAS 2<sup>ND</sup> DISTRICT ENGINEERING OFFICE  
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BARANGAY STA. CLARA, BATANGAS CITY

CAD BY:

MA. JESSA ANN M. CABALLES  
ARCHITECT I (JO)

DATE :

PREPARED BY :

MYLEN M. MANALO  
ENGINEER II

DATE :

REVIEWED & SUBMITTED :

GEMMA L. OLAN  
CHIEF  
PLANNING & DESIGN SECTION

DATE :

RECOMMENDED :

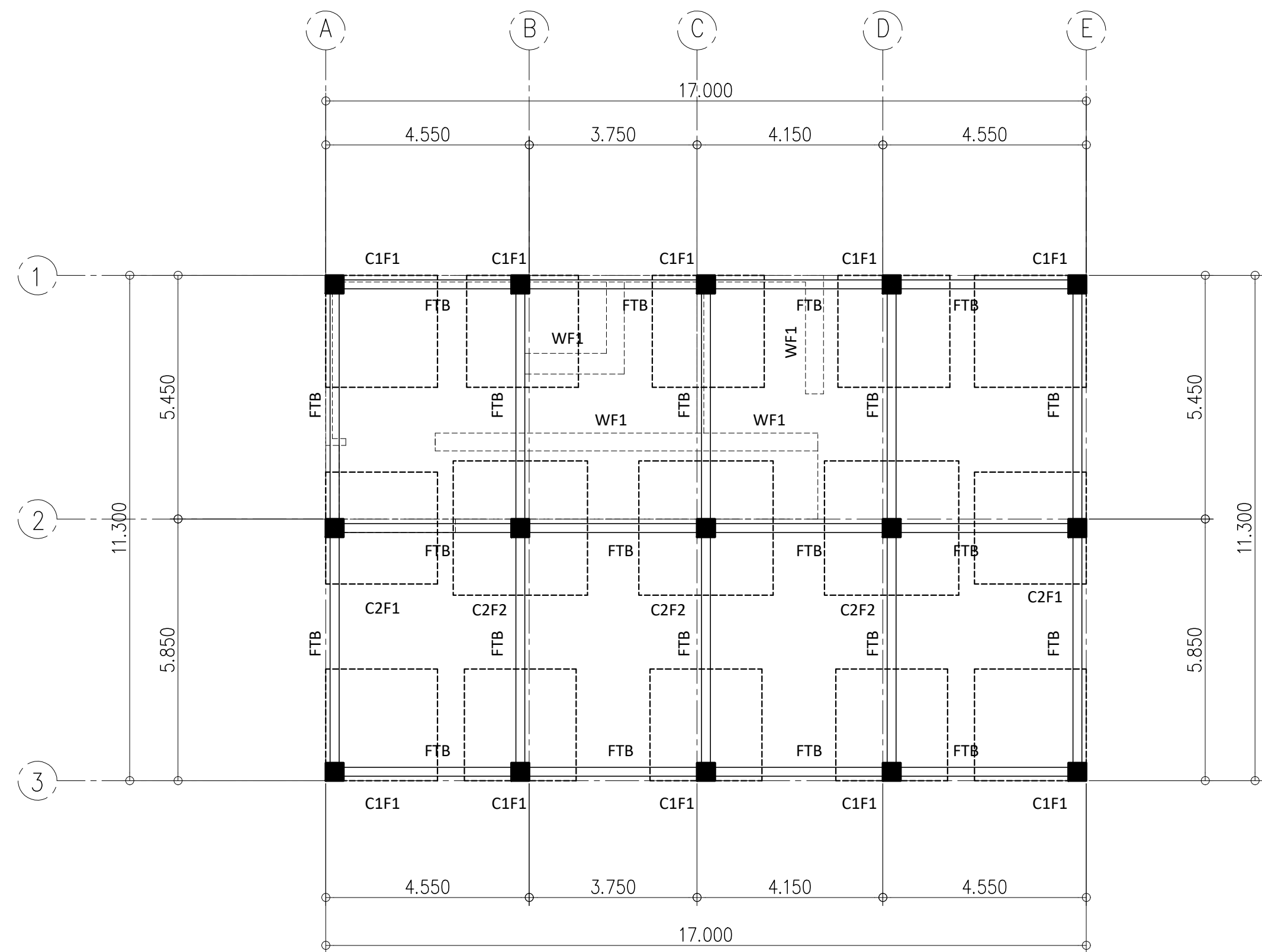
ARIEL V. ARMEDILLA  
ASSISTANT DISTRICT ENGINEER

DATE :

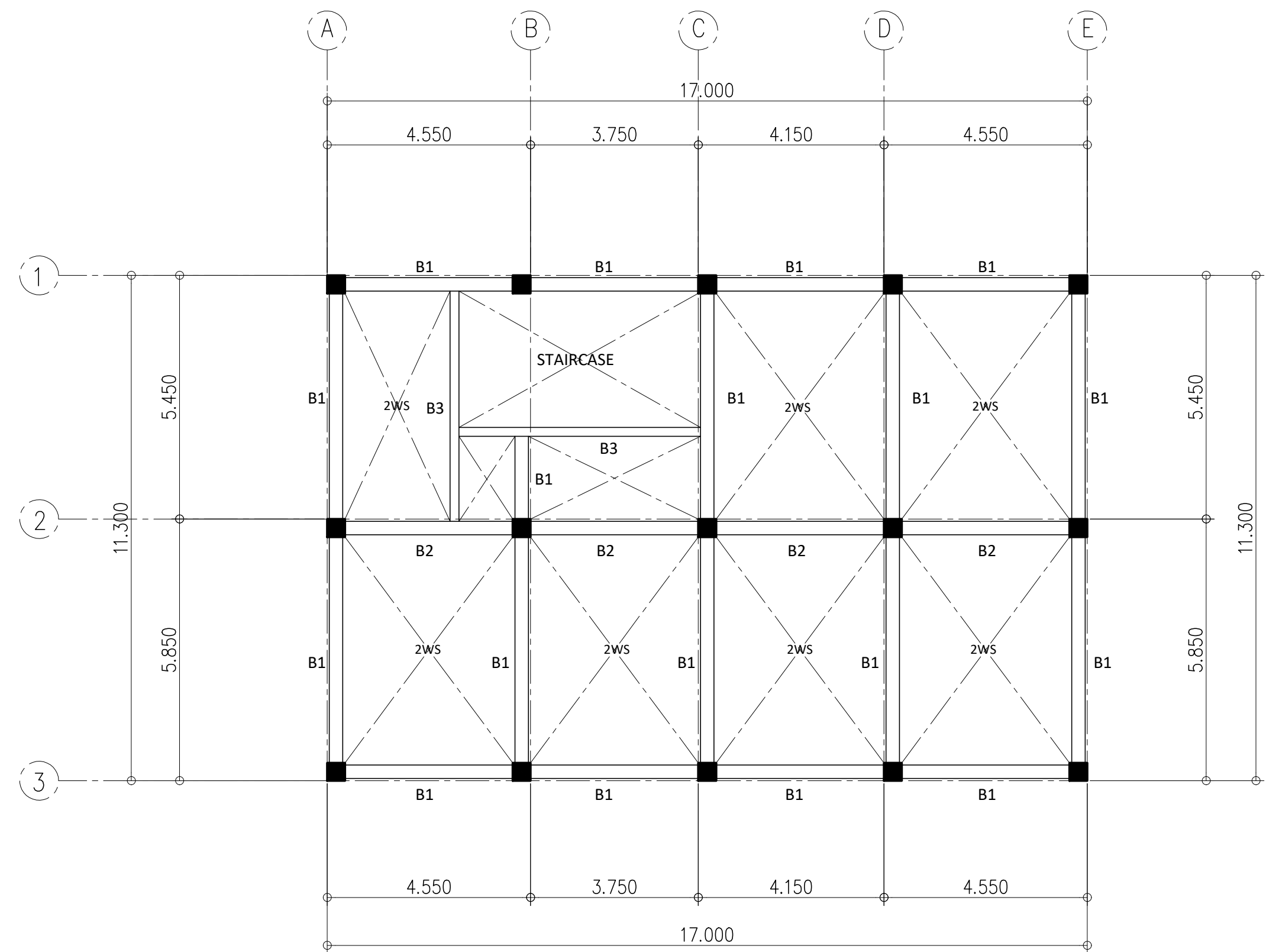
APPROVED :

SONIA D. PAGLICAUAN  
DISTRICT ENGINEER

DATE :

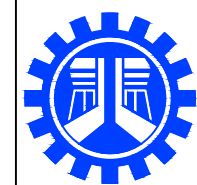


1 FOUNDATION PLAN  
S-03 SCALE 1:100 MTS.



2 2ND TO ROOFDECK FLOOR FRAMING PLAN  
S-03 SCALE 1:100 MTS.

|                               |                |
|-------------------------------|----------------|
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|                               |                |
| CIVIL/STRUCTURAL ENGINEER     |                |
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| Date Signed :                 | Date Issued :  |



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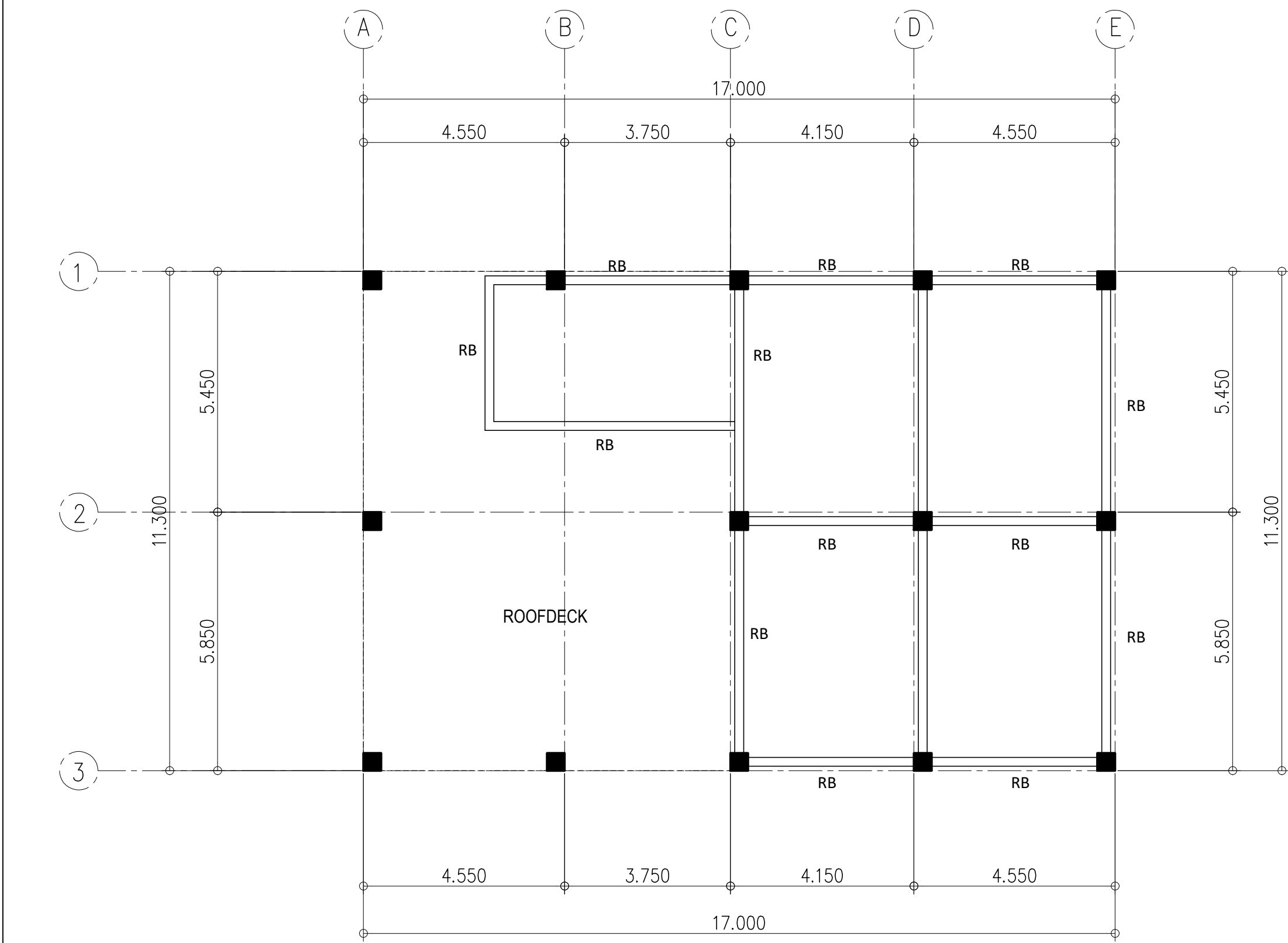
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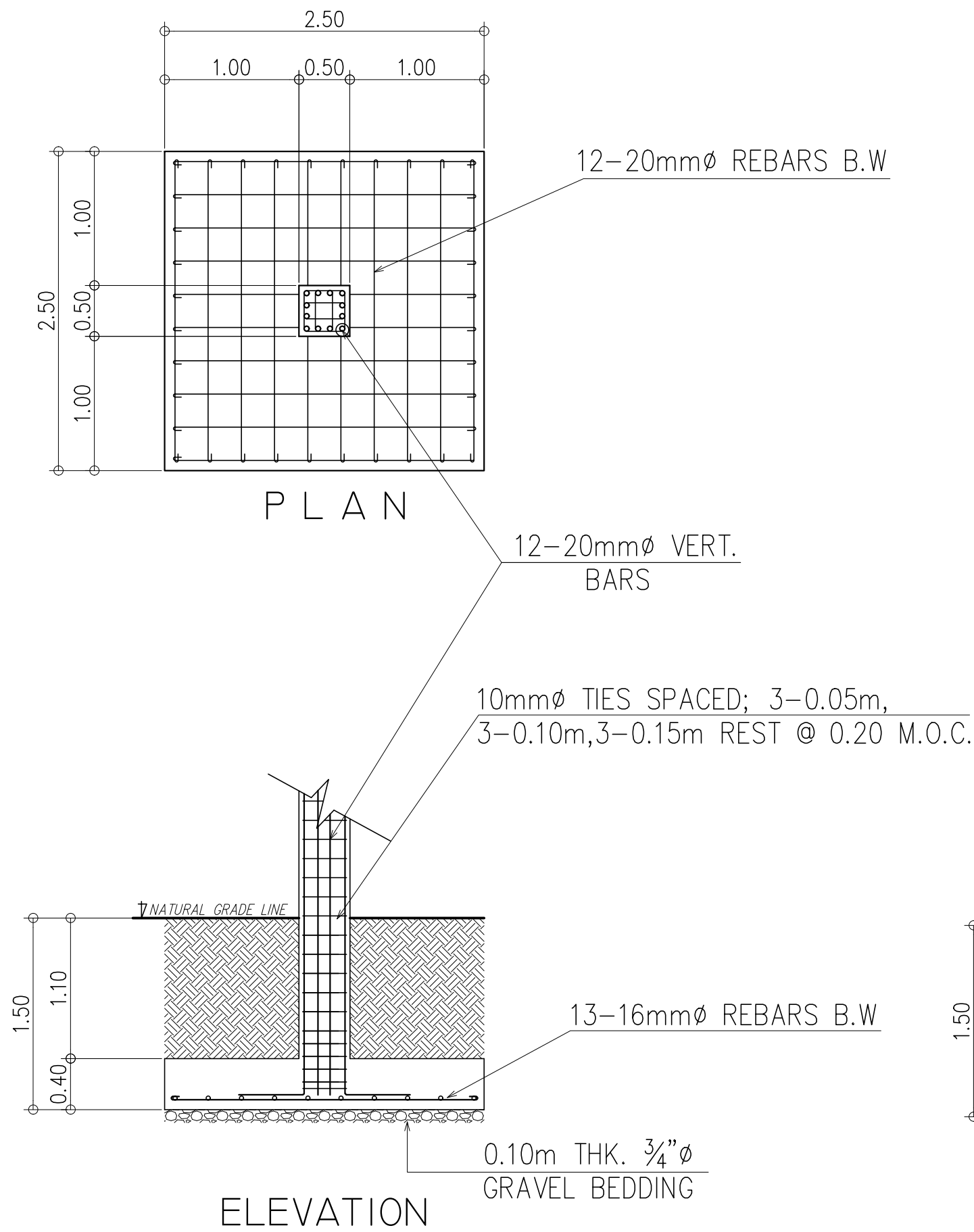
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SHEET CONTENT :  
FOUNDATION PLAN  
2ND TO ROOFDECK FLOOR  
FRAMING PLAN

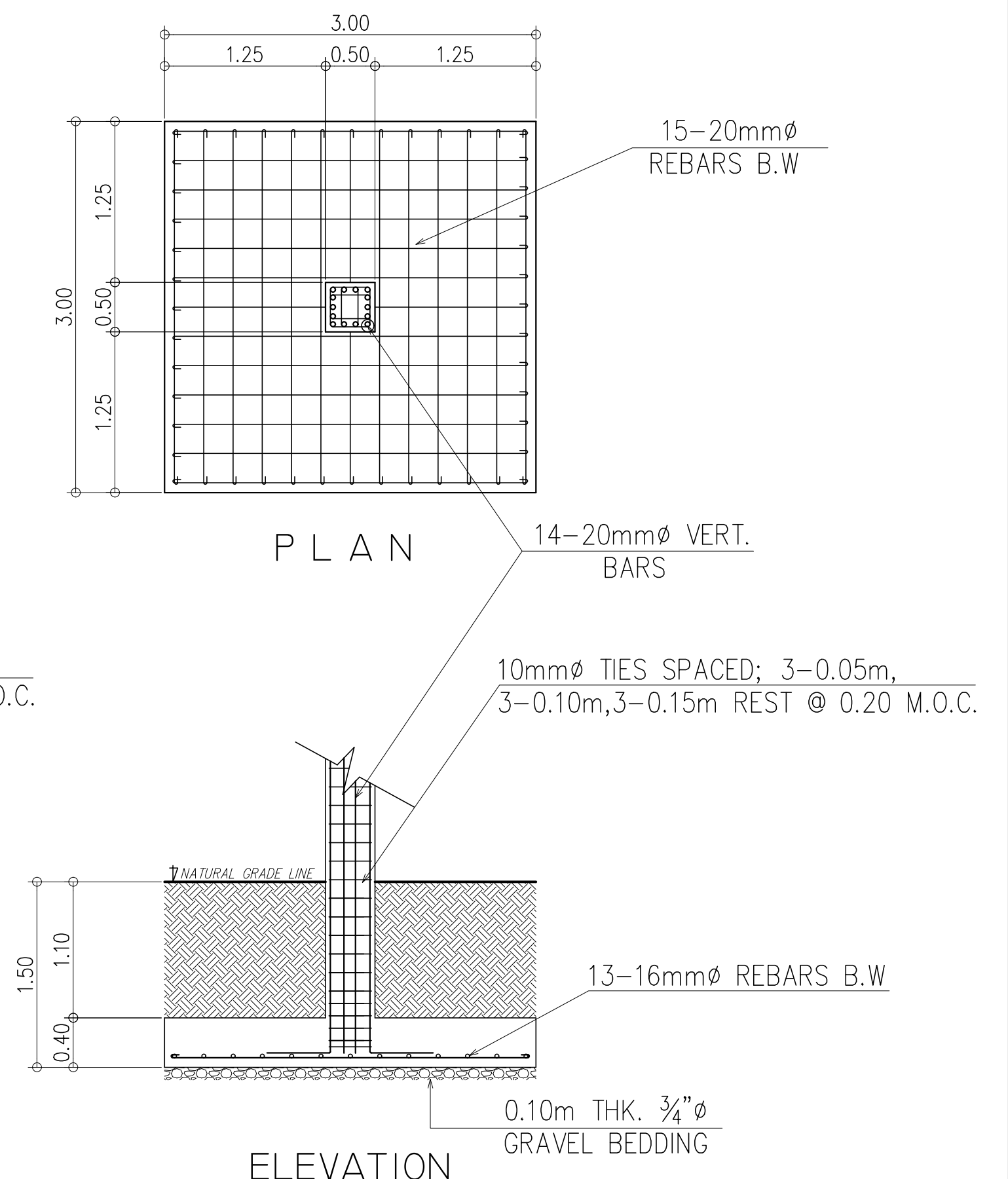
SHEET NO.:  
S-03



1 ROOF BEAM PLAN  
S-04 SCALE 1:100 MTS.



C1F1

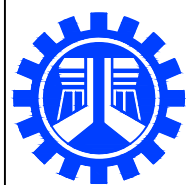


ELEVATION

C2F2

2 COLUMN FOOTING DETAIL  
S-04 SCALE 1:40 MTS.

|                               |                |
|-------------------------------|----------------|
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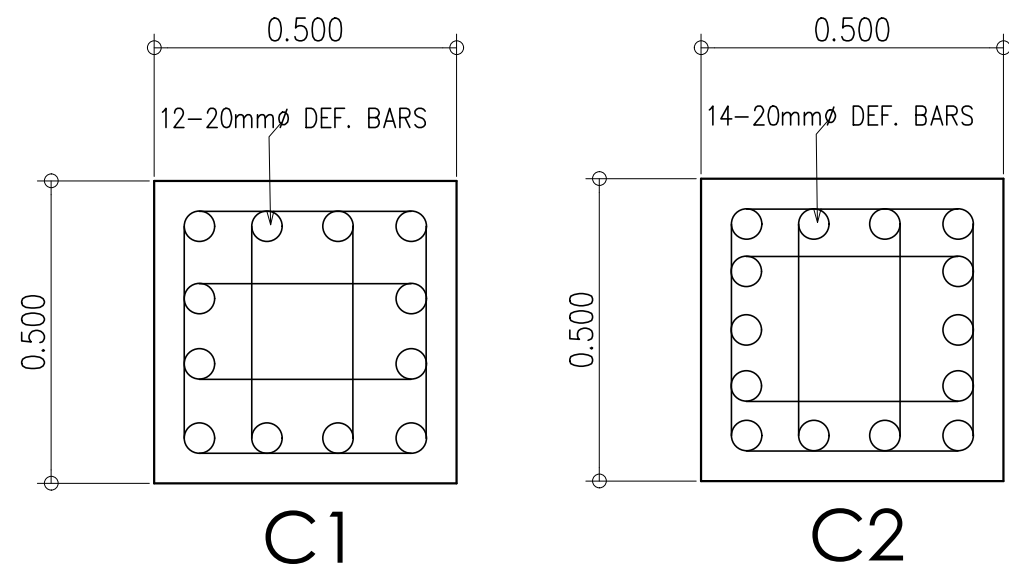
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SHEET CONTENT :  
ROOF BEAM PLAN  
COLUMN - FOOTING DETAIL

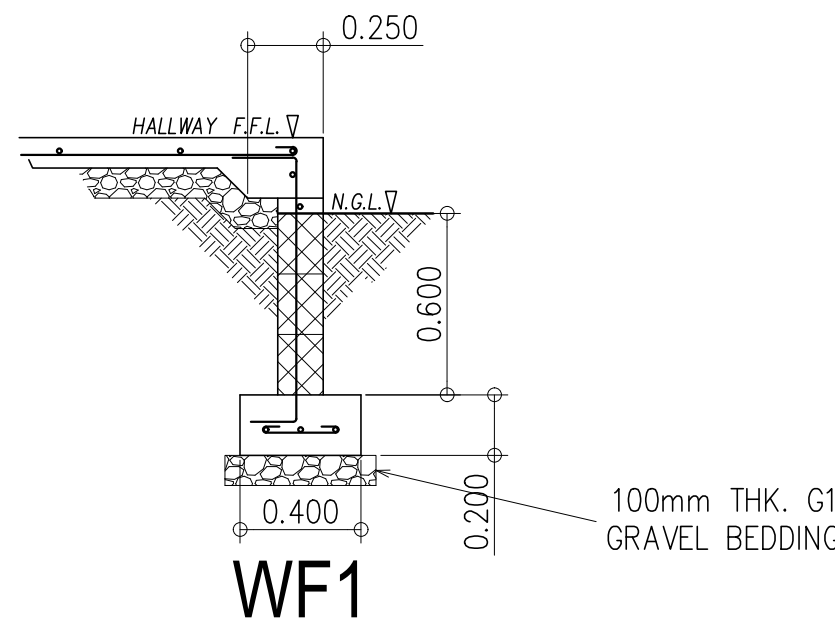
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S-04



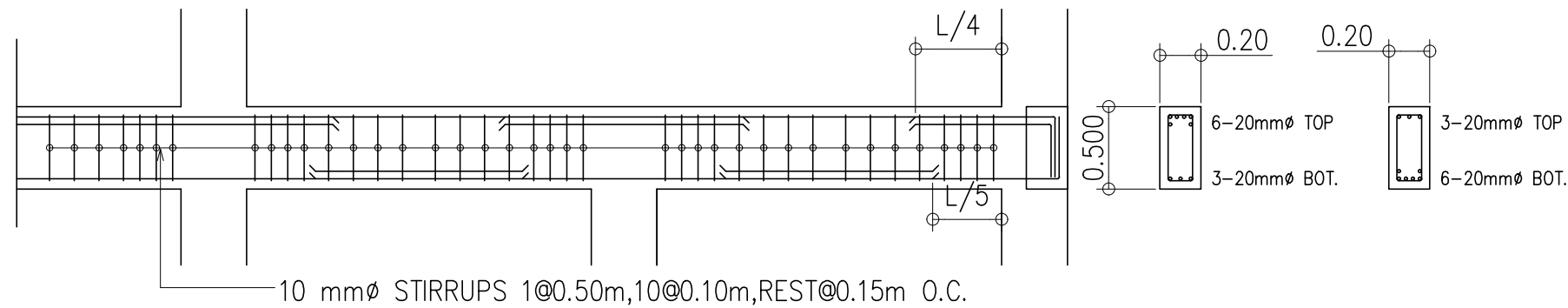
1 C COLUMN DETAIL  
S-05 SCALE 1:10 MTS.

| FOOTING NUMBERS | B    | D    | T   | REBAR     |
|-----------------|------|------|-----|-----------|
| F1              | 3000 | 3000 | 400 | 13-#16 BW |
| F2              | 2500 | 2500 | 400 | 10-#16 BW |

1 FOOTING SCHEDULE  
S-05 SCALE NTS



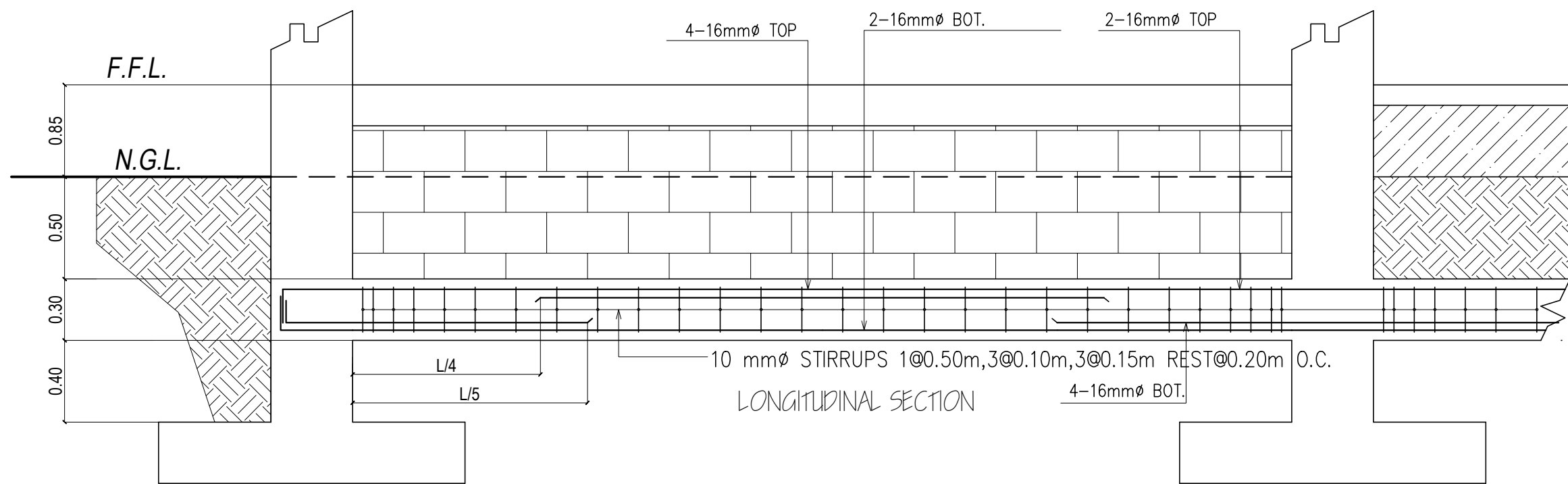
1 WALL FOOTING DETAILS  
S-05 SCALE 1:25 MTS.



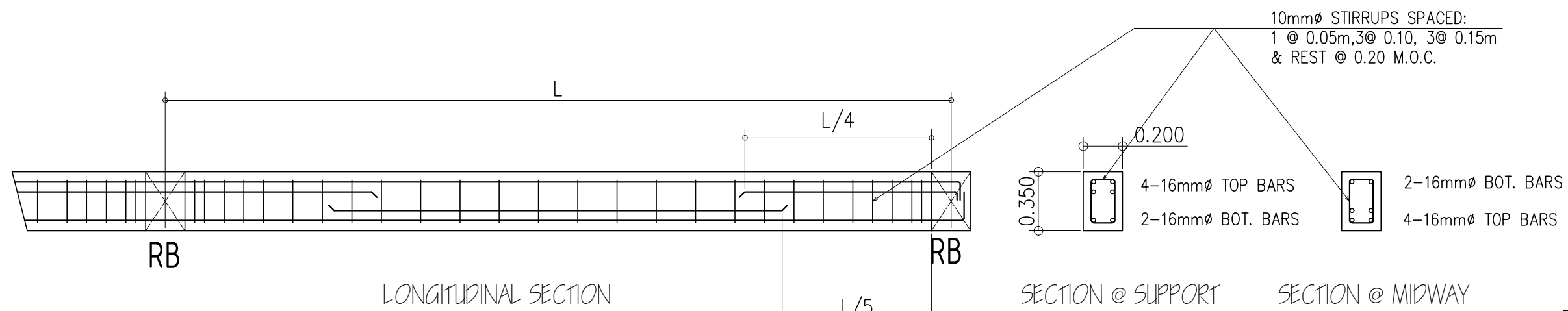
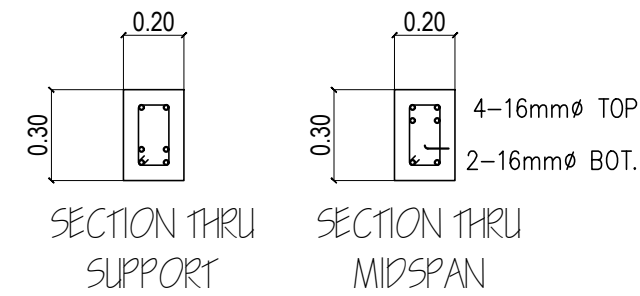
1 FLOOR BEAM DETAIL (B1)  
S-05 SCALE 1:25 MTS.

| BEAM NUMBERS | SIZE |     | BOTTOM REINFORCEMENT |          |       | TOP REINFORCEMENT |          |       | SHEAR STIRRUPS                | SFR |
|--------------|------|-----|----------------------|----------|-------|-------------------|----------|-------|-------------------------------|-----|
|              | B    | D   | LEFT                 | MID SPAN | RIGHT | LEFT              | MID SPAN | RIGHT |                               |     |
| FTB          | 200  | 300 | 2#16                 | 4#16     | 2#16  | 4#16              | 2#16     | 4#16  | 1 @50, 3@100, 3@150, rest@200 | -   |
| B1           | 300  | 500 | 3#20                 | 6-#20    | 3-#20 | 6-#20             | 3-#20    | 6-#20 | 1 @50, 10@100, rest@150       | -   |
| B2           | 250  | 450 | 4#16                 | 6#16     | 4#16  | 6#16              | 4#16     | 6#16  | 1 @50, 9@100, rest@200        | -   |
| B3           | 200  | 350 | 3#16                 | 5#16     | 3#16  | 5#16              | 3#16     | 5#16  | 1 @50, 3@100, 3@150, rest@200 | -   |
| RB           | 200  | 350 | 2#16                 | 4#16     | 2#16  | 4#16              | 2#16     | 4#16  | 1 @50, 3@100, 3@150, rest@200 | -   |

1 BEAM SCHEDULE  
S-05 SCALE NTS

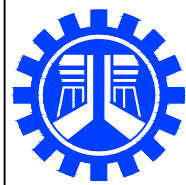


1 TIE BEAM (TB) DETAIL  
S-05 SCALE 1:25 MTS.



1 ROOF BEAM DETAIL (RB)  
S-05 SCALE 1:25 MTS.

|                               |                |
|-------------------------------|----------------|
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APPROVED :  
  
SONIA D. PAGLICAUAN  
DISTRICT ENGINEER  
DATE :

SHEET CONTENT :  
COLUMN DETAIL  
FOOTING SCHEDULE  
BEAM SCHEDULE  
WALL FOOTING DETAILS  
FOOTING TIE BEAM (FTB) DETAIL  
FLOOR BEAM DETAIL (B1)  
ROOF BEAM DETAIL (RB)

SHEET NO.:  
  
S-05

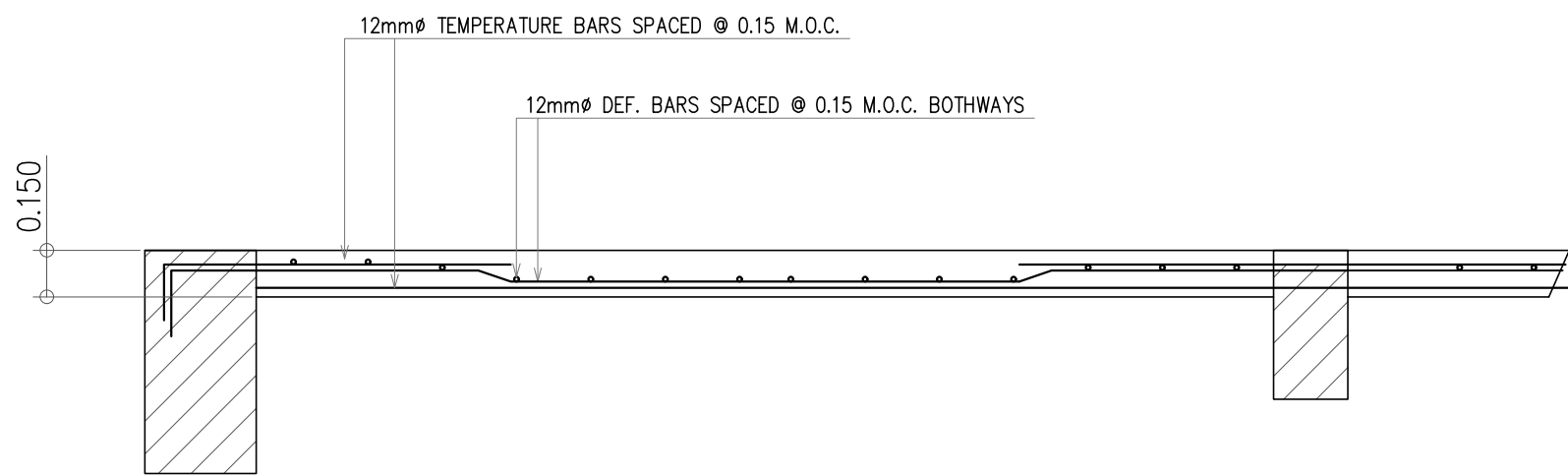
12mmØ MAIN BARS  
SPACED @ 150mm O.C.

12mmØ DISTRIBUTION BARS  
SPACED @ 150mm O.C.

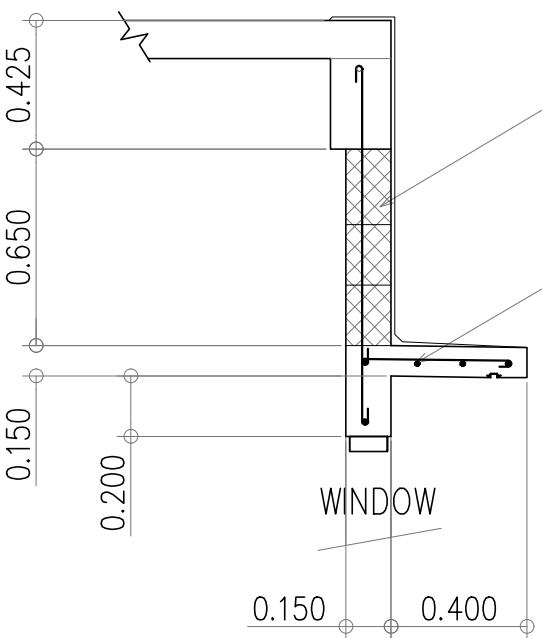
150mm THICK CONCRETE SLAB

S1

1 TWO WAY SLAB DETAIL  
S-06 SCALE NTS.



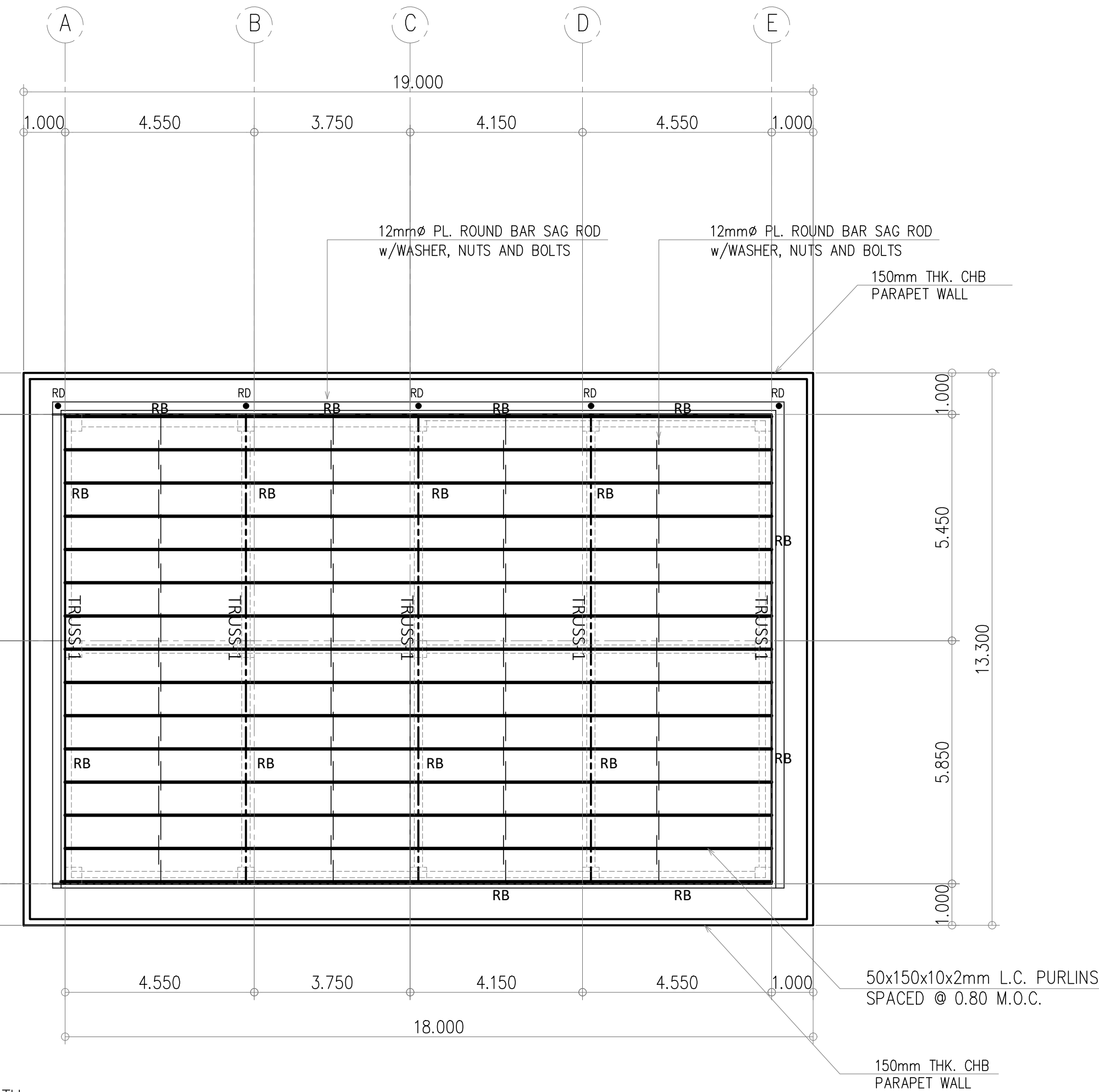
2 TWO WAY SLAB DETAIL (S1)  
S-06 SCALE 1:20 MTS



4 WINDOW CANOPY DETAIL  
S-06 SCALE 1:25 MTS.

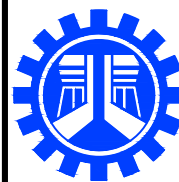
150MM THK CHB WALL WITH  
10MM REINF. BARS SPACED AT  
0.60M O.C B.W.

CONCRETE WINDOW CANOPY  
WITH 10MM Ø REBARS SPACED  
@ 0.15M O.C.



3 ROOF FRAMING PLAN  
S-06 SCALE 1:100 MTS.

|                               |                |
|-------------------------------|----------------|
| CHECKED, SIGNED & SEALED BY : |                |
|                               |                |
| CIVIL/STRUCTURAL ENGINEER     |                |
| PRC No. :                     | PTR No. :      |
| Validity :                    | Place Issued : |
| Date Signed :                 | Date Issued :  |



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. IV-A  
BATANGAS 2<sup>ND</sup> DISTRICT ENGINEERING OFFICE  
KUMINTANG ILAYA, BATANGAS CITY

PROJECT TITLE / LOCATION :  
CY 2025 PROJECT  
CONVERGENCE AND SPECIAL SUPPORT PROGRAM,  
BASIC INFRASTRUCTURE PROGRAM (BIP),  
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES,  
CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDINGS  
(LIVING QUARTERS) OF PHILIPPINE COAST GUARD SOUTHERN TAGALOG,  
BARANGAY STA. CLARA, BATANGAS CITY

CAD BY:  
  
MA. JESSA ANN M. CABALLES  
ARCHITECT I (JO)  
DATE :

PREPARED BY :  
  
MYLEN M. MANALO  
ENGINEER II  
DATE :

REVIEWED & SUBMITTED :  
  
GEMMA L. OLAN  
CHIEF  
PLANNING & DESIGN SECTION  
DATE :

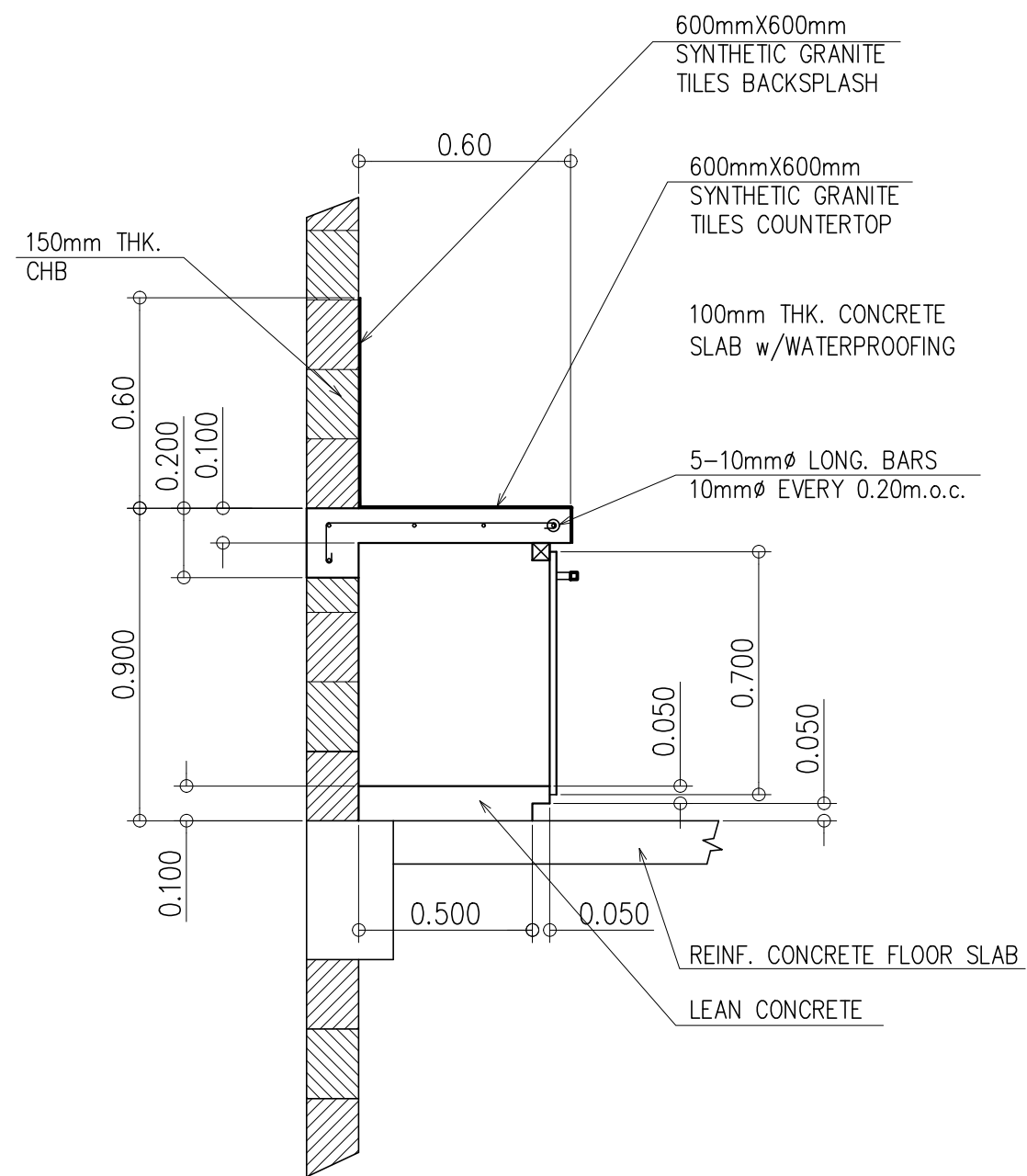
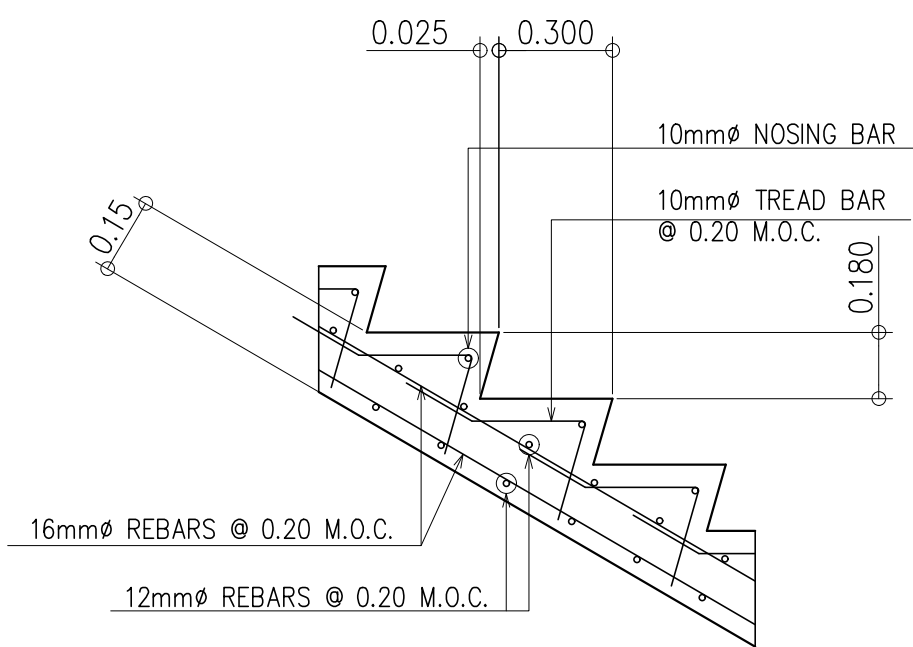
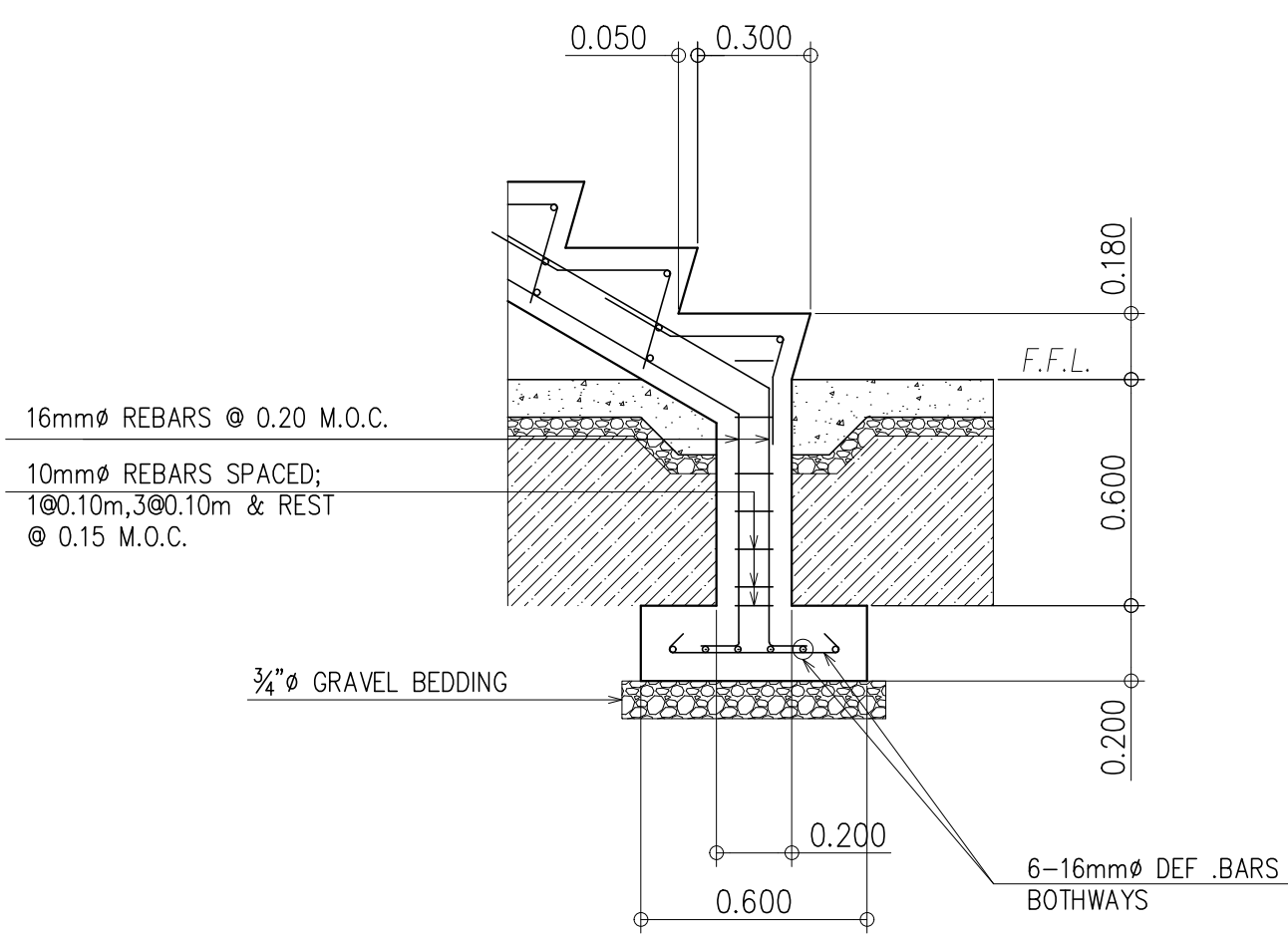
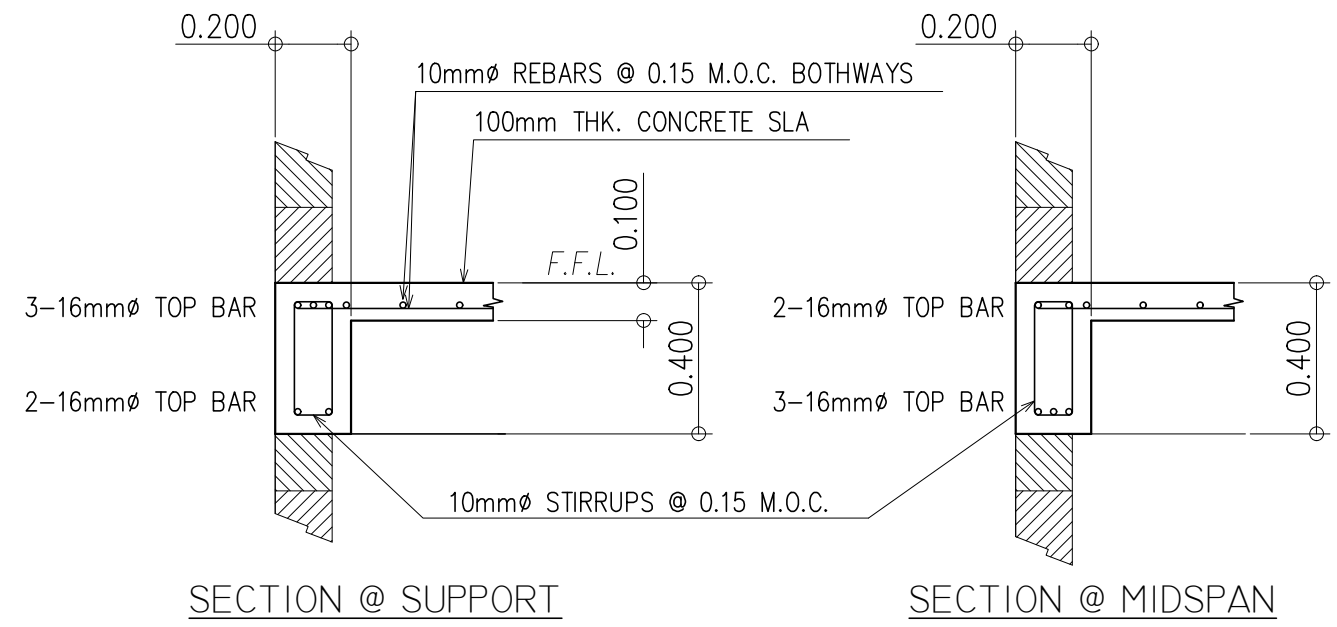
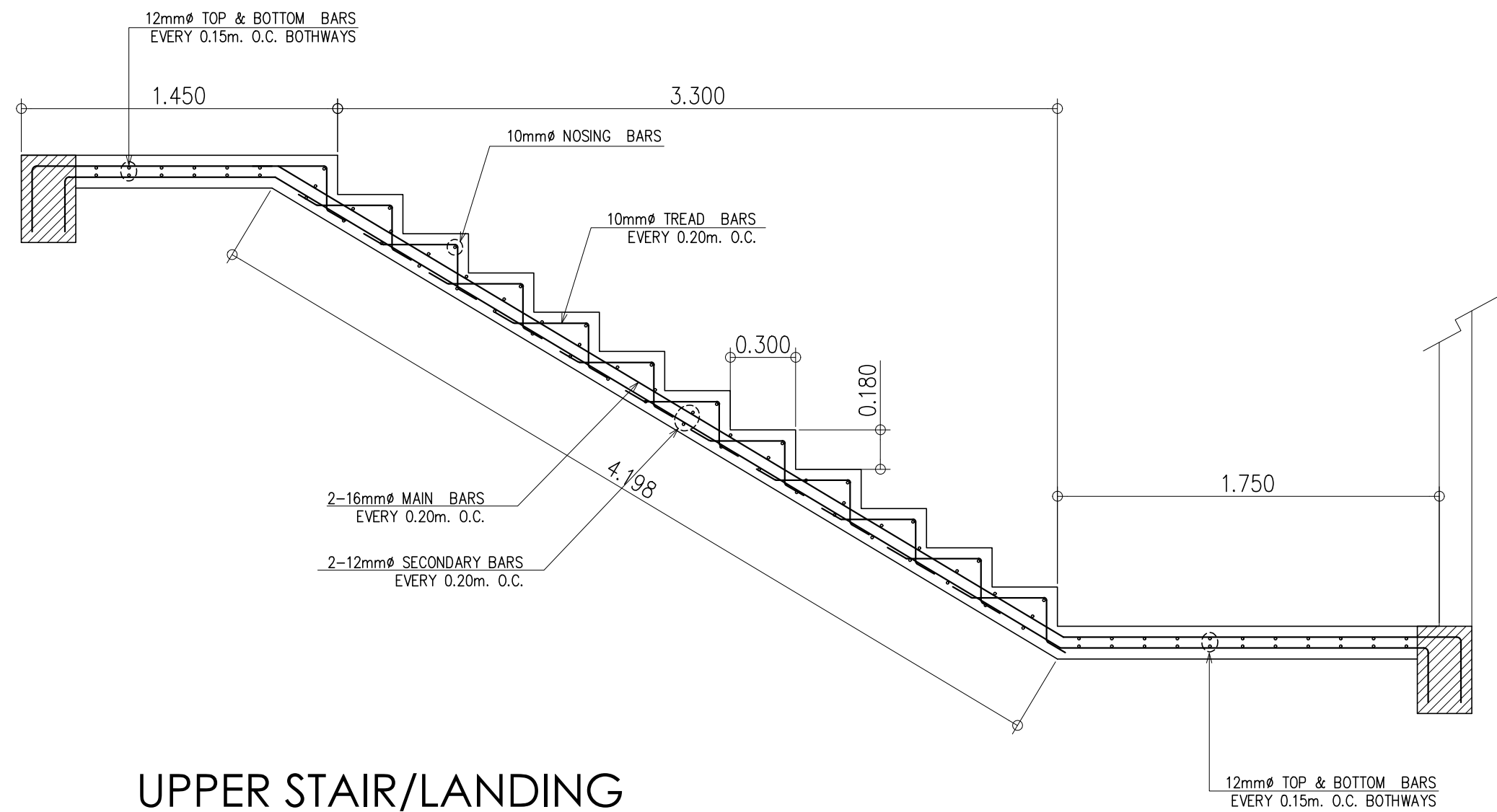
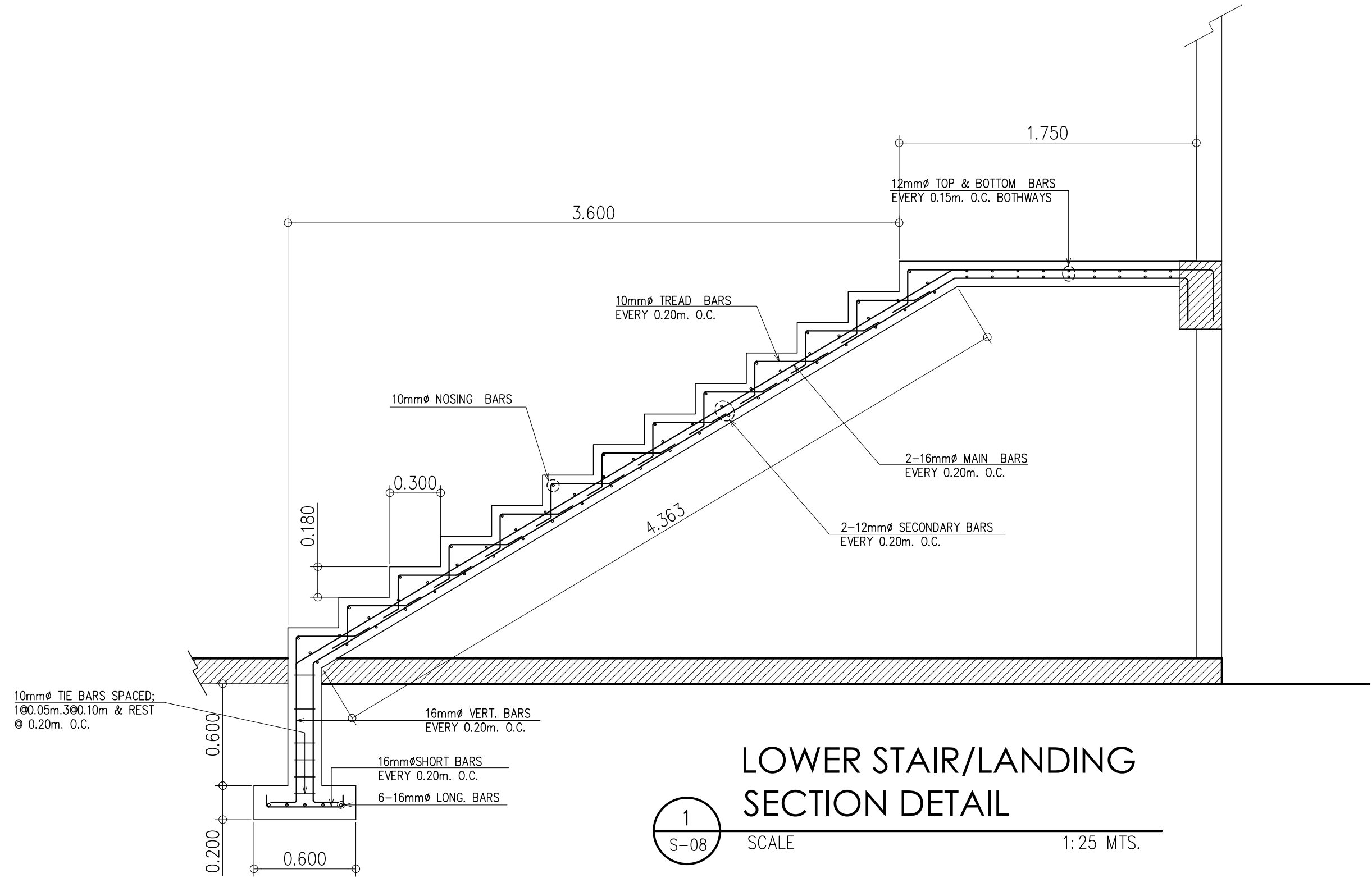
RECOMMENDED :  
  
ARIEL V. ARMEDILLA  
ASSISTANT DISTRICT ENGINEER  
DATE :

APPROVED :  
  
SONIA D. PAGLICAUAN  
DISTRICT ENGINEER  
DATE :

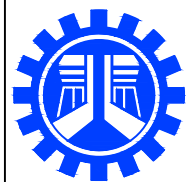
SHEET CONTENT :  
TWO WAY SLAB DETAIL  
TWO WAY SLAB DETAIL (S1)  
ROOF FRAMING PLAN  
WINDOW CANOPY DETAIL

SHEET NO.:  
S-06





|                                    |                |
|------------------------------------|----------------|
| CHECKED, SIGNED & SEALED BY :      |                |
|                                    |                |
| CIVIL/STRUCTURAL ENGINEER          |                |
| PRC No. :                          | PTR No. :      |
| Validity :                         | Place Issued : |
| Date Signed :                      | Date Issued :  |
| SHEET CONTENT :                    |                |
| LOWER STAIR/LANDING SECTION DETAIL |                |
| UPPER STAIR/LANDING SECTION DETAIL |                |
| STAIR LANDING BEAM (SLB) DETAIL    |                |
| STAIR FOOTING DETAIL               |                |
| STAIR TREAD DETAIL                 |                |
| COUNTER DETAIL                     |                |
| SHEET NO.:                         |                |
| S-08                               |                |



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