

GENERAL NOTES

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PIPES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.

PROPOSED SANITARY UTILITIES SHALL CONFORM WITH THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING PIPES STRUCTURE.

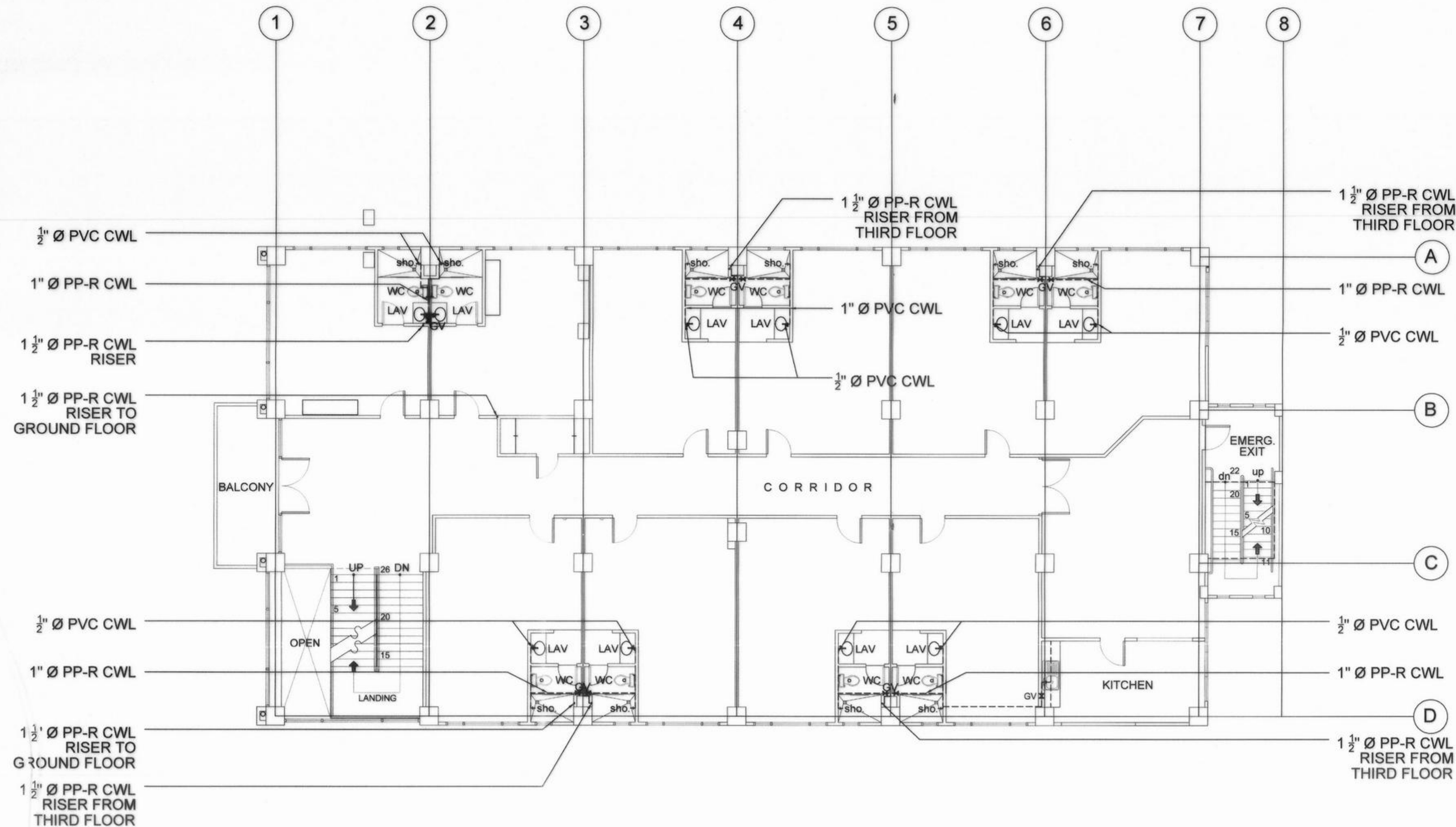
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ALL SEWER LINES SHALL BE UPVC PIPE SERIES 1000 BY EMERALD OR EQUIVALENT.

ALL VENT PIPES SHALL BE UPVC PIPE SERIES 1000.

ALL DOWNSPOUTS SHALL BE PVC PIPE SERIES 1000.

ALL COLD WATER LINES SHALL BE PPR PN-20 TYPE THERMOVAR OR EQUIVALENT



SECOND FLOOR WATERLINE LAYOUT
SCALE 1:100 M

LEGENDS & SYMBOLS

WATER SUPPLY DISTRIBUTION SYSTEM	
—	CWL COLD WATERLINE
—X—	GV GATE VALVE
—N—	CV CHECK VALVE
—○—	F / SHO FAUCET & SHOWER RISER
WASTEWATER COLLECTION SYSTEM	
—	SP SOIL PIPE
- - -	VP VENT PIPE
- - -	VP AC VENT PIPE ABOVE CEILING
- - -	VPTW AC VENT THRU WALL ABOVE CL.
—○—	VSAC VENT STACK ABOVE CL.
—○—	CO CLEAN OUT
—□—	FD FLOOR DRAIN
—○—	PIPE STACK
—○—	WC WATER CLOSET
—○—	URI URINAL
—=—	DP DRAIN PIPE
—=—	DS DOWNSPOUT
—○—	RD ROOF DRAIN
—□—	CB CATCH BASIN



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

RECOMMENDING APPROVAL :

VISITACION Q. MENDOZA
DIRECTOR IV - REGIONAL DIRECTOR

AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS EXTENSION AVE., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:

**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:

SECOND FLOOR WATER LINE LAYOUT
GENERAL NOTES
LEGENDS AND SYMBOLS

PREPARED:

AR-RAFIA. SALUAN
ENGINEERING AIDE
REGISTERED SANITARY ENGINEER

REVIEWED:

PIO MARIO T. LACASTESANTOS
ENGINEER III
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

SUBMITTED:

SATURNINO C. TORREFRANCA
DISTRICT ENGINEER
OIC - CHIEF, PLANNING & DESIGN DIVISION

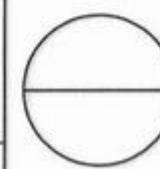
RECOMMENDED:

KHADAFFY D. TANGGOL
ASSISTANT REGIONAL DIRECTOR

APPROVED:

CAYAMOMBAO D. DIA, CESO IV
REGIONAL DIRECTOR

SET NO.



SHEET NO.:



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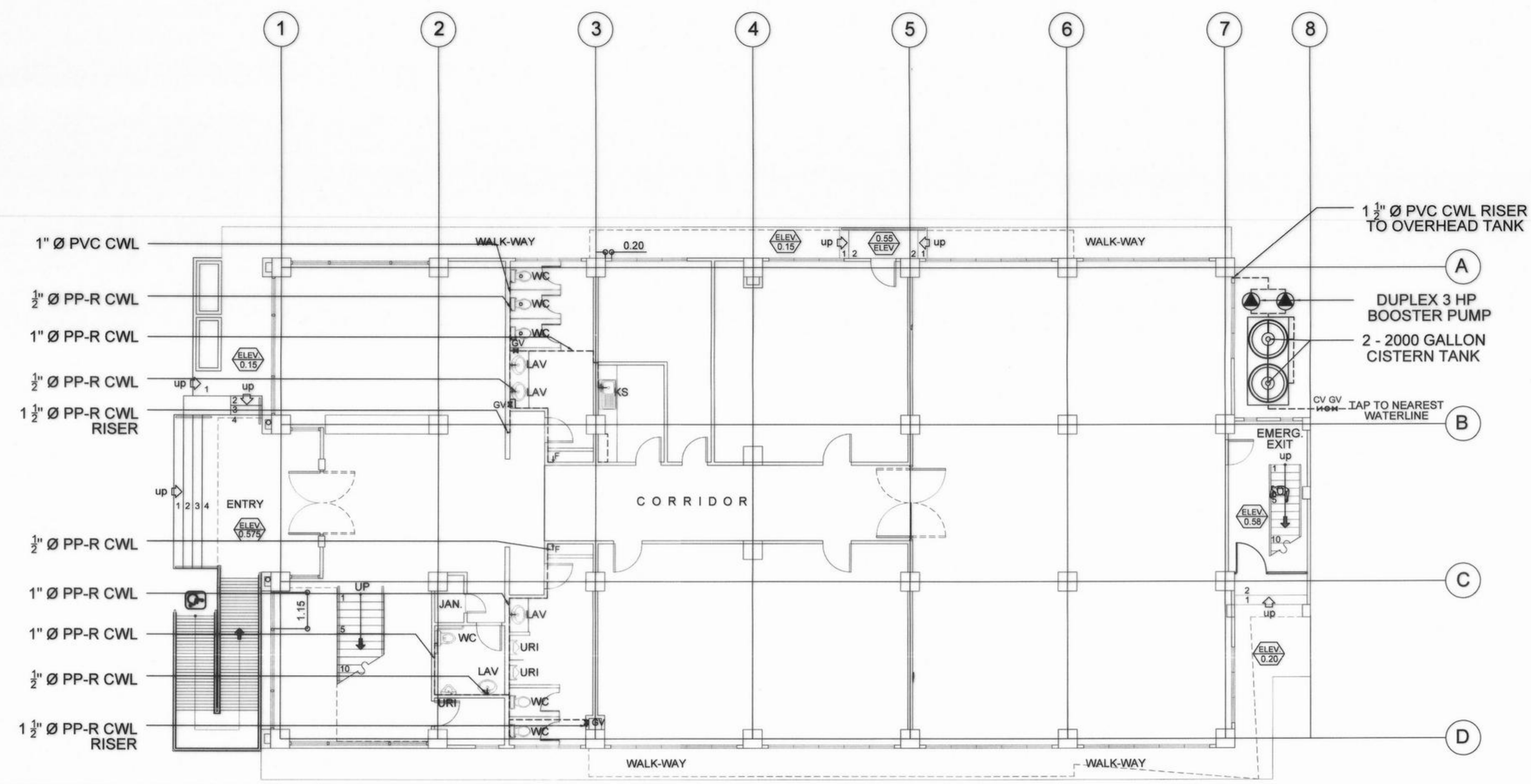
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ALL COLD WATER LINES SHALL BE PPR PN-20



GROUND FLOOR WATERLINE LAYOUT
SCALE 1:100 M

LEGENDS & SYMBOLS

- WATER SUPPLY DISTRIBUTION SYSTEM**
- CWL COLD WATERLINE
 - GV GATE VALVE
 - CV CHECK VALVE
 - F / SHO FAUCET & SHOWER RISER
- WASTEWATER COLLECTION SYSTEM**
- SP SOIL PIPE
 - VP VENT PIPE
 - VP AC VENT PIPE ABOVE CEILING
 - VPTW AC VENT THRU WALL ABOVE CL
 - VSAC VENT STACK ABOVE CL.
 - CO CLEAN OUT
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SHEET CONTENT:
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GENERAL NOTES
LEGENDS AND SYMBOLS

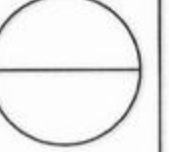
PREPARED:
AR-RAFA A. SALUAN
ENGINEERING AIDE
REGISTERED SANITARY ENGINEER

REVIEWED:
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ENGINEER III
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

SUBMITTED:
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DISTRICT ENGINEER
OIC - CHIEF, PLANNING & DESIGN DIVISION

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SET NO.  SHEET NO.: **P-4**
29/68

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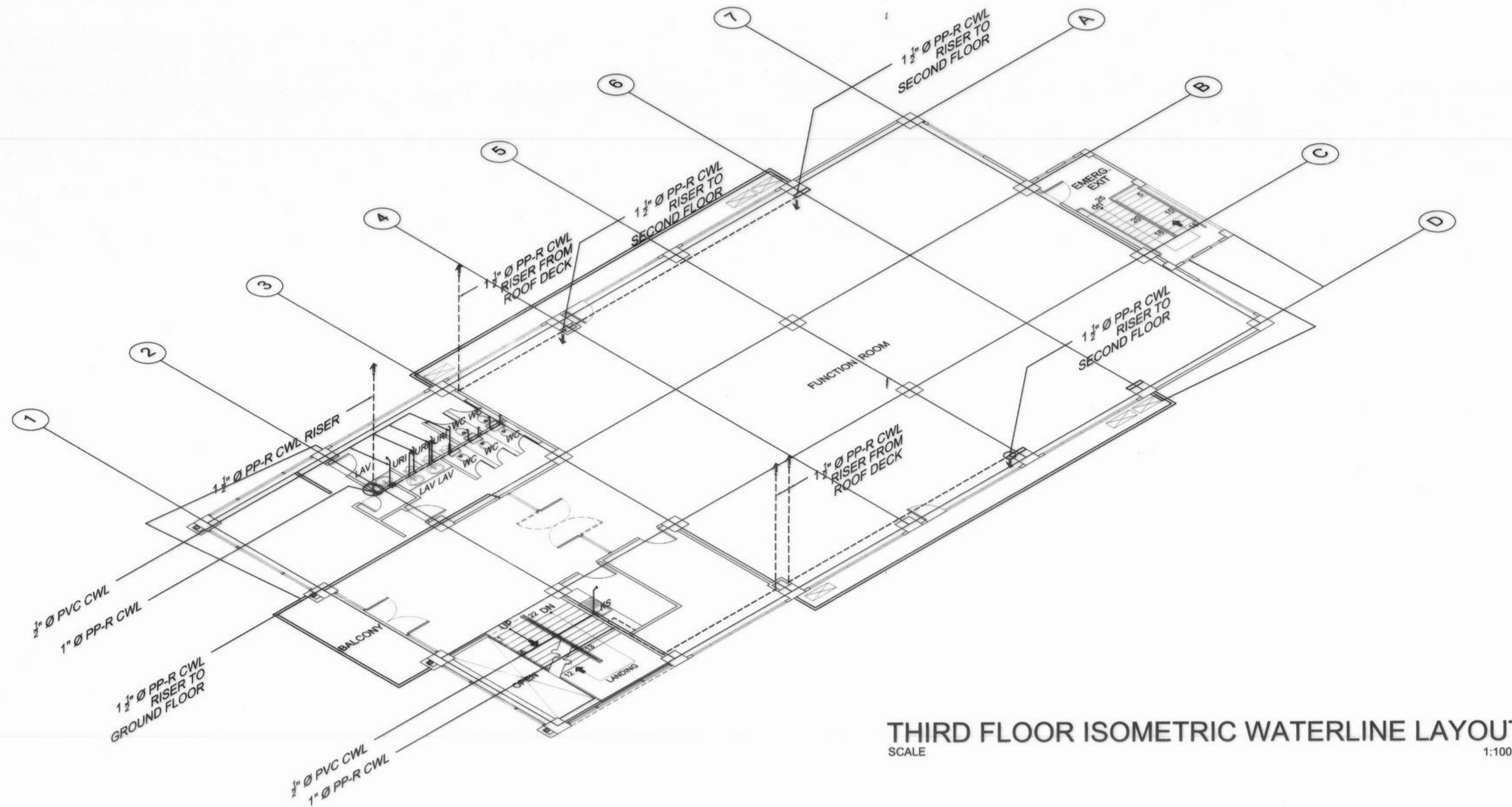
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THIRD FLOOR ISOMETRIC WATERLINE LAYOUT

SCALE 1:100 M

LEGENDS & SYMBOLS

WATER SUPPLY DISTRIBUTION SYSTEM

- CWL COLD WATERLINE
- X — GV GATE VALVE
- N — CV CHECK VALVE
- F / SHO FAUCET & SHOWER RISER
- RISER

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- SP SOIL PIPE
- VP VENT PIPE
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- VSAC VENT STACK ABOVE CL.
- CO CLEAN OUT
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SHEET CONTENT:

THIRD FLOOR ISOMETRIC -
WATERLINE LAYOUT
GENERAL NOTES
LEGENDS AND SYMBOLS

PREPARED:

AR-RAFIA SALUAN
REGISTERED SANITARY ENGINEER

REVIEWED:

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SUBMITTED:

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ASSISTANT REGIONAL DIRECTOR

APPROVED:

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SET NO.

30/68

SHEET NO.:

P - 5
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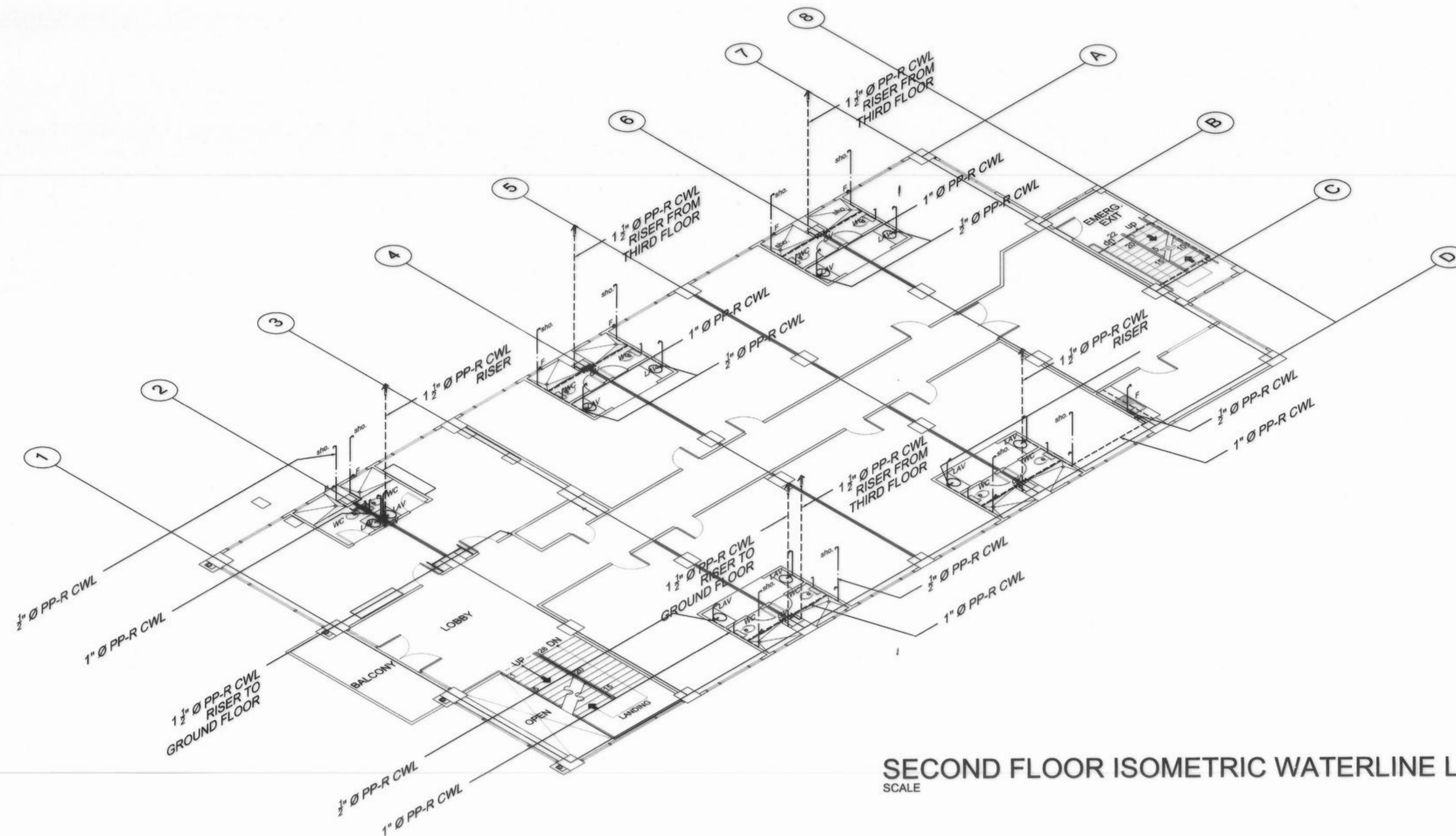
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- WATERLINE LAYOUT
GENERAL NOTES
LEGENDS AND SYMBOLS

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ENGINEERING AIDE
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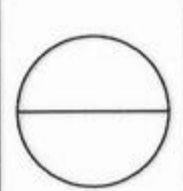
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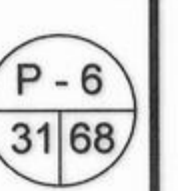
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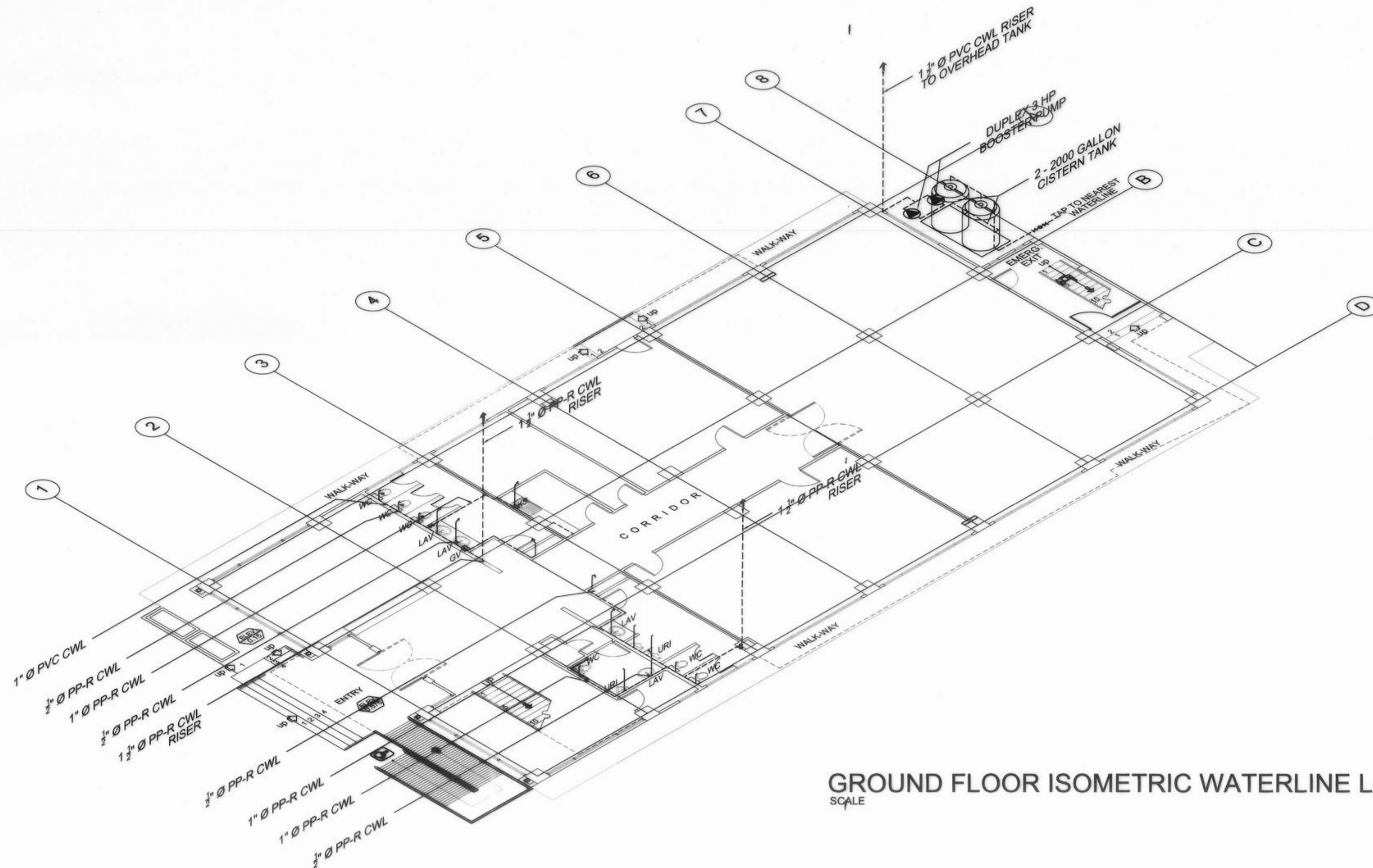
CAYAMOMBABO D. DIA, CESO IV
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SET NO.



SHEET NO.:





GROUND FLOOR ISOMETRIC WATERLINE LAYOUT
SCALE 1:100 M

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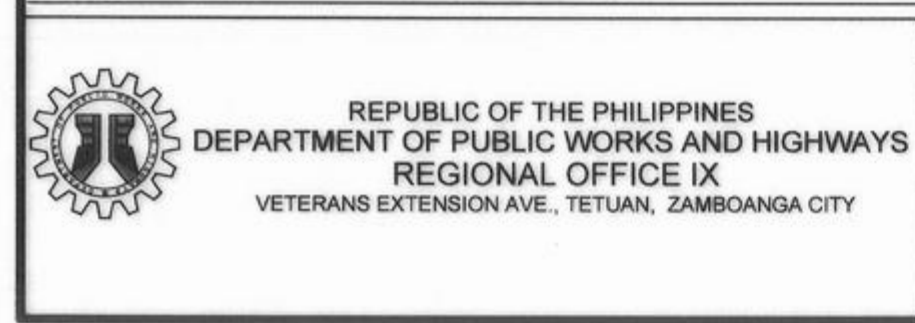


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PROJECT & LOCATION:
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GENERAL NOTES
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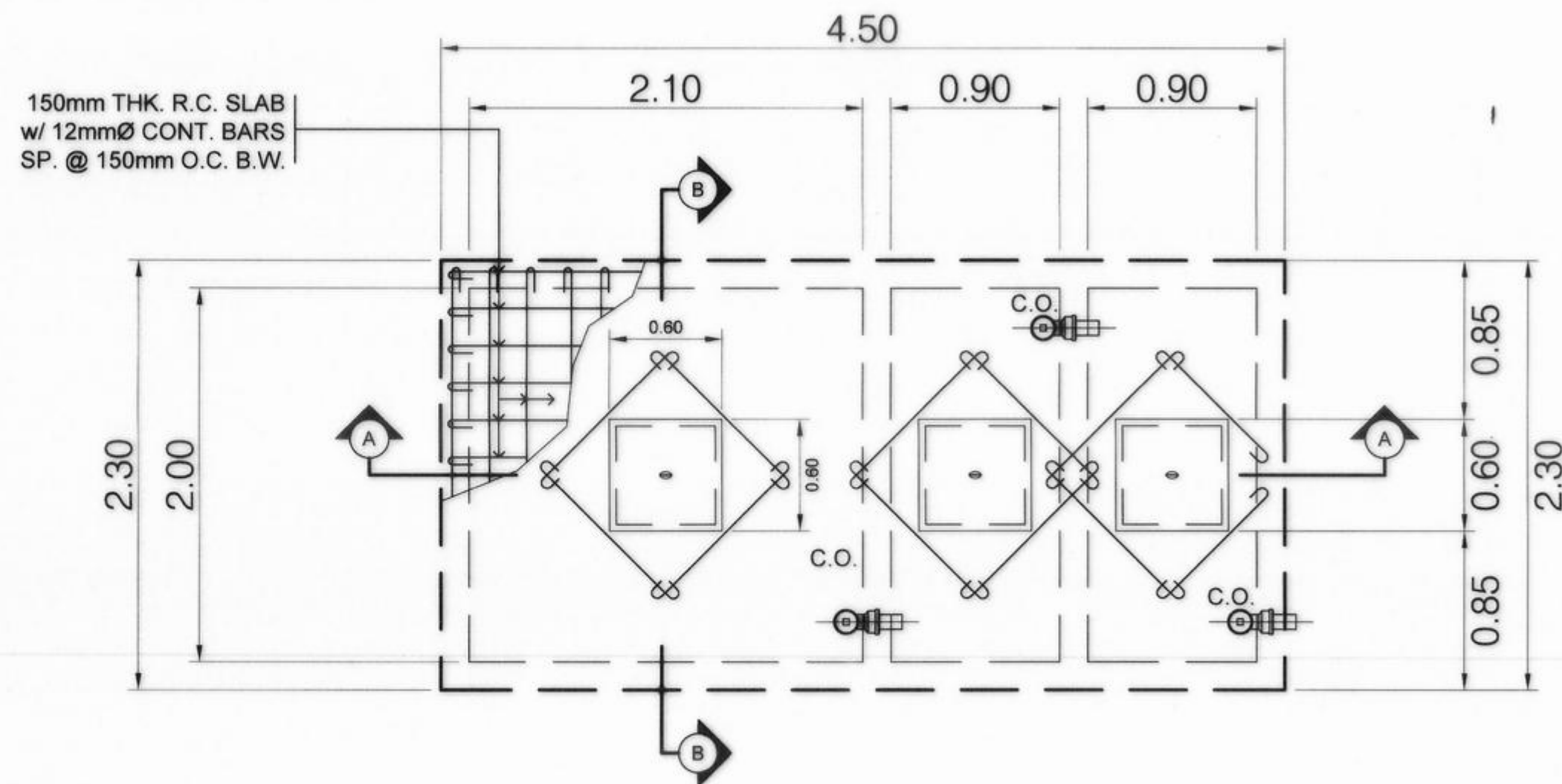
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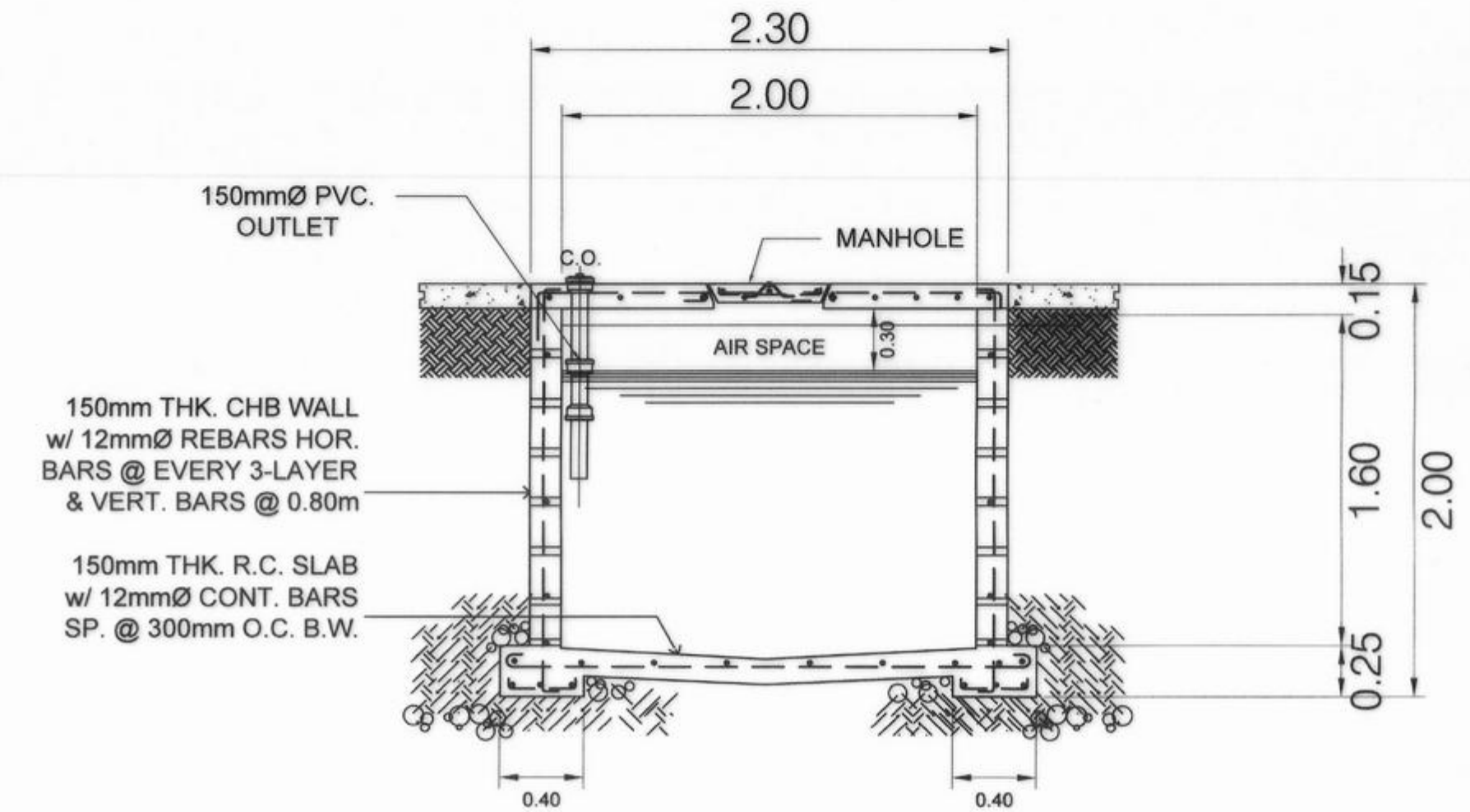
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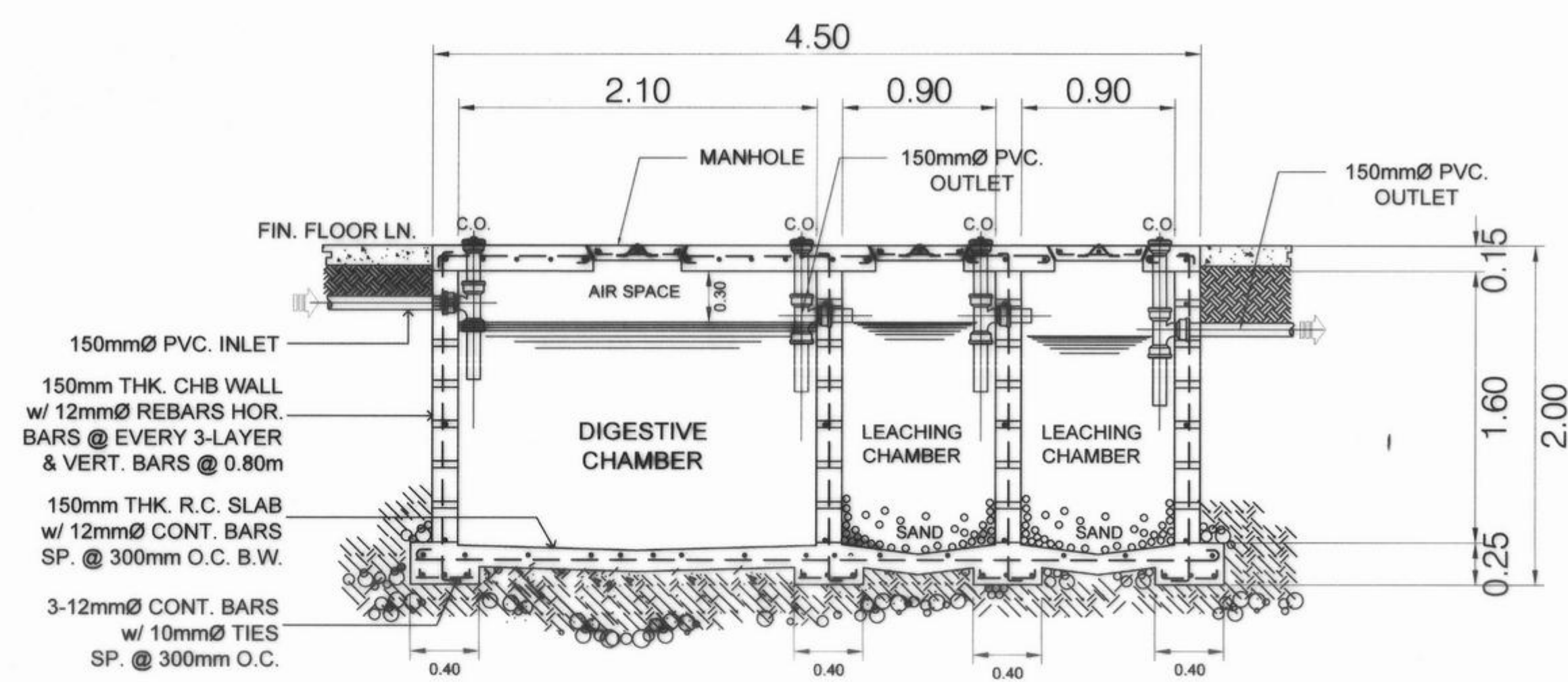
SET NO. SHEET NO.:
P - 7
32 68



PLAN



SECTION B-B



SECTION A-A

DETAILS OF SEPTIC VAULT
SCALE 1:30 MTRS



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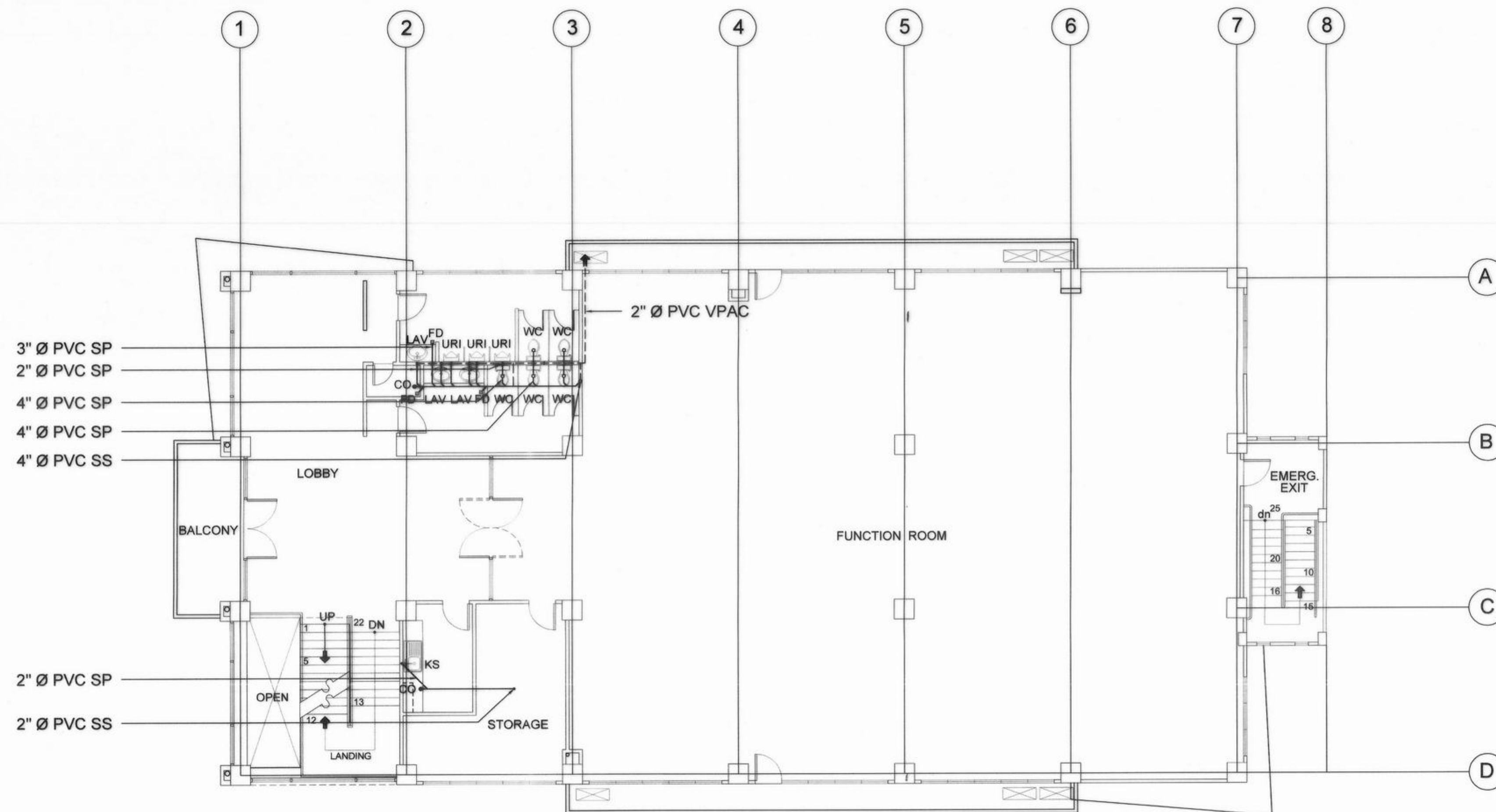
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THIRD FLOOR SANITARY LAYOUT

SCALE 1:100 M



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APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTION



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS EXTENSION AVE., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:
**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:
THIRD FLOOR SANITARY LAYOUT
GENERAL NOTES
LEGENDS AND SYMBOLS


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CAYAMOMBAO D. DIA, CESO IV
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SET NO.  SHEET NO.: **P-9**
34/68

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OF 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 PARTITIONS, 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 ENGINEERS AND THE ARCHITECT.
- ALL CONCRETE WORKS SHALL BE DONE IN ACCORDANCE WITH THE ACI 318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH ASCI SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, ASCI 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.

NOTES 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
COLUMNS	4000 PSI (27.6 MPa)	19mm	100mm
BEAMS & SUSPENDED SLAB	4000 PSI (27.6 MPa)	19mm	100mm
SLAB ON GRADE	3000 PSI (21 MPa)	19mm	100mm
OTHERS NOT INDICATED	4000 PSI (27.6 MPa)	19mm	100mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

ITEM	COVER
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 FLOWING 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	14 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

NOTES OF FOOTINGS

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 95KPa. CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, SOIL CONDITIONS, UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTING SHALL REST AT LEAST 2100mm 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.

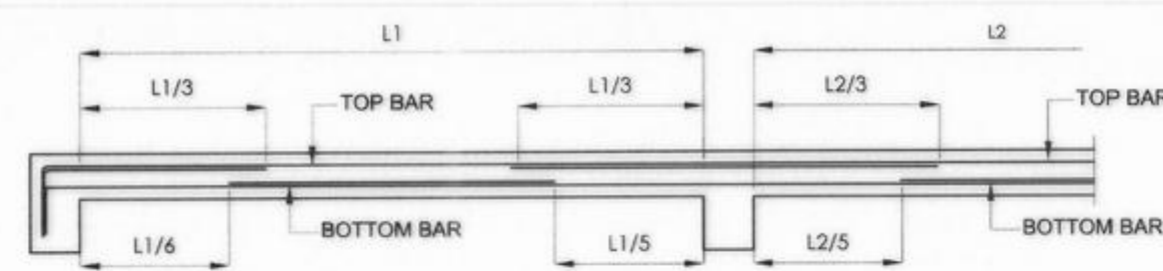
NOTES ON REINFORCEMENT

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

A. FOOTINGS, FOOTING BEAMS AND GIRDERS	$f_y = 414 \text{ MPa (60,000 psi)}$
B. COLUMNS AND SHEAR WALLS	$f_y = 414 \text{ MPa (60,000 psi)}$
C. BEAMS AND GIRDER	$f_y = 414 \text{ MPa (60,000 psi)}$
D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK	$f_y = 275 \text{ MPa (40,000 psi)}$
- ALL REINFORCING BARS SIZE 10mm OR BIGGER 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

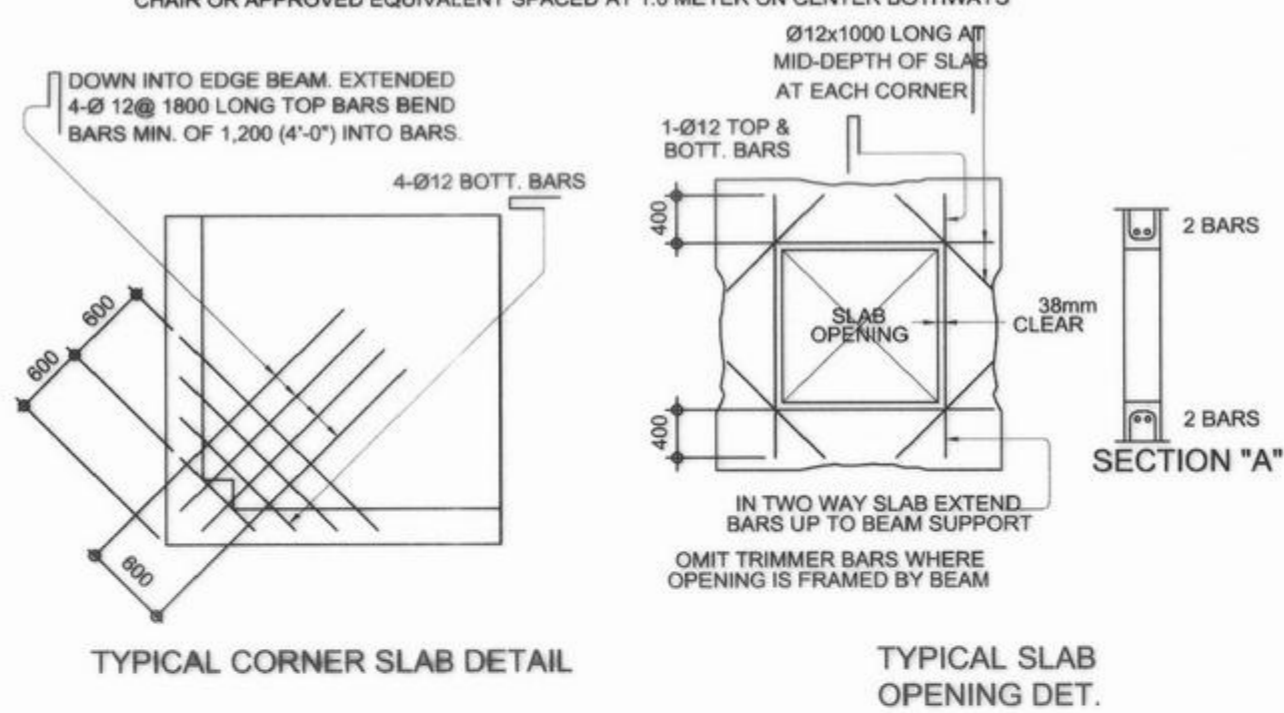
- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE DETAILED IN CONTINUOUS SLAB HAVING SAME REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARS SHALL BE BENT UP, OR CUT AS FOLLOWS



TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

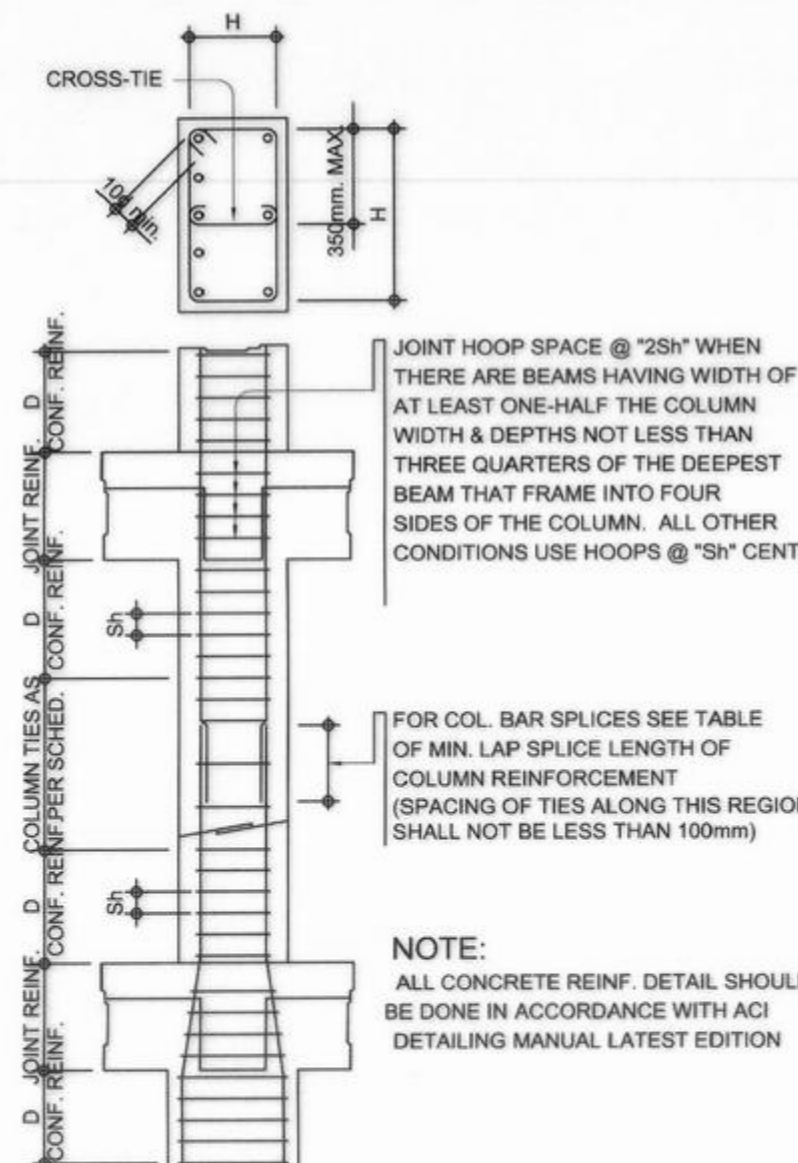
- IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL BE APPROXIMATELY ONE AND A HALF (1 1/2) SLAB THICKNESS OR 45 CENTIMETERS
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 BT. (SEE SCHEDULE BELOW)

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm @ 300mm EACH WAY
125 mm	10 mm @ 250mm EACH WAY
150 mm	10 mm @ 200mm EACH WAY
175 mm	10 mm @ 175mm EACH WAY
200 mm	10 mm @ 150mm EACH WAY

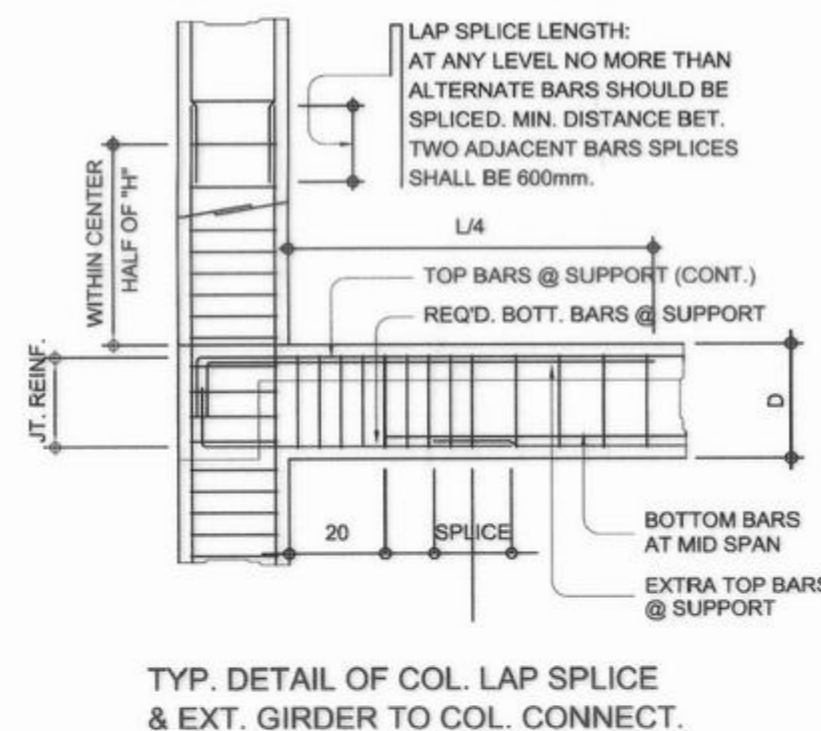


NOTES ON COLUMNS

- 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 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 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



NOTES ON BEAMS AND GIRDERS

- UNLESS, OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6mm.S 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.

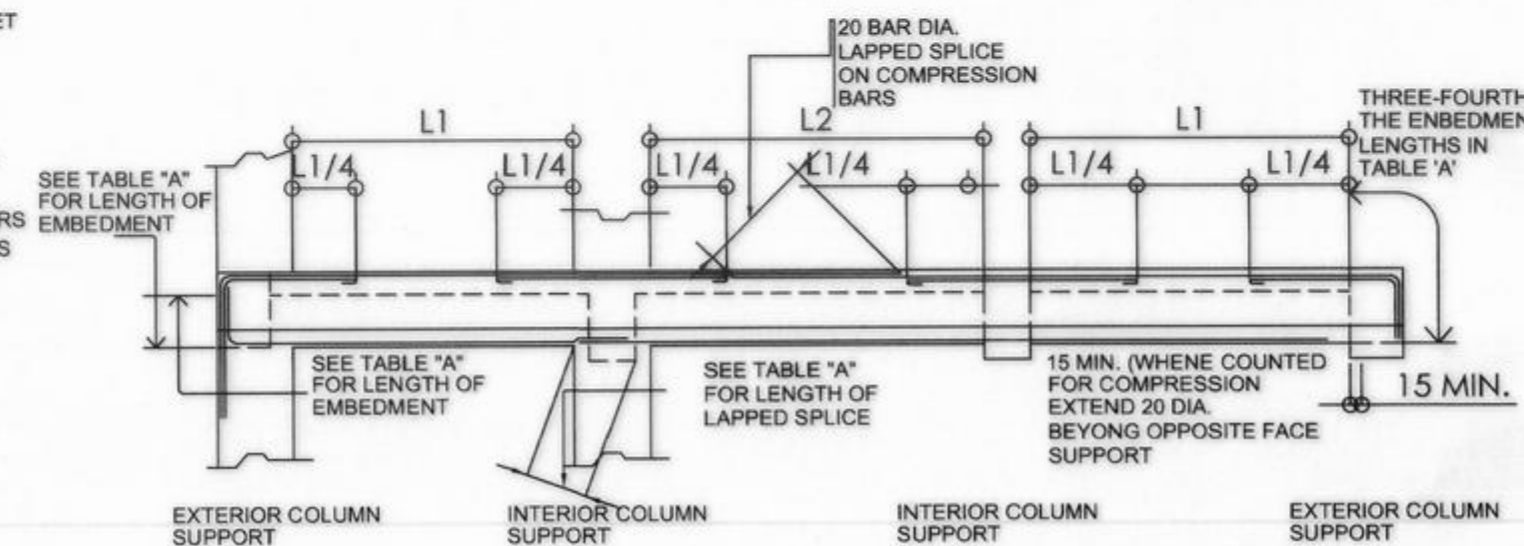


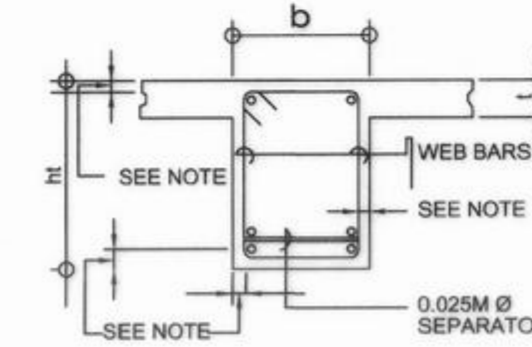
FIG. B-1

TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICES IN MILLIMETERS				TABLE 'B' COMPRESSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICES IN MILLIMETERS					
BAR SIZE (DEFORMED)	$f_c = 20.7 \text{ MPa (3000 psi)}$		$f_c = 27.6 \text{ MPa (4000 psi)}$		BAR SIZE (DEFORMED)	$f_c = 20.7 \text{ MPa (3000 psi)}$		$f_c = 27.6 \text{ MPa (4000 psi)}$	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED		EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm \emptyset	300	300	300	300	10mm \emptyset	225	300	200	300
12mm \emptyset	300	300	300	300	12mm \emptyset	275	300	250	300
16mm \emptyset	300	400	300	400	16mm \emptyset	350	400	325	400
20mm \emptyset	400	550	350	500	20mm \emptyset	450	500	475	500
25mm \emptyset	600	800	550	750	25mm \emptyset	550	625	550	625
28mm \emptyset	750	1000	650	850	28mm \emptyset	625	675	625	675
32mm \emptyset	950	1300	850	1100	32mm \emptyset	700	775	700	775

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2

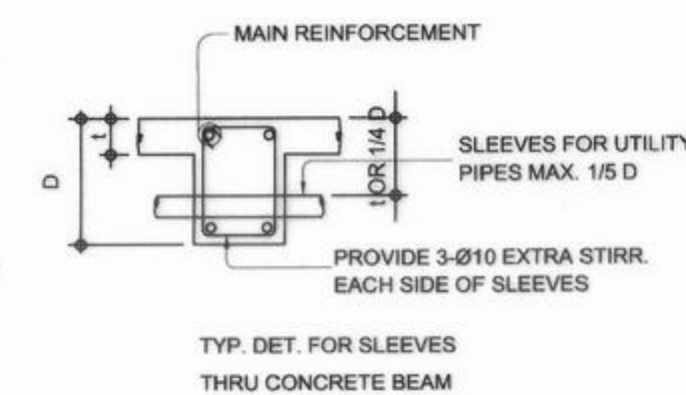
NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

- 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 S. 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 \emptyset 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

- 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.



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

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AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTION

PROJECT & LOCATION:

COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:

GENERAL CONSTRUCTION NOTES

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SET NO.

SHEET NO.:



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY

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GENERAL CONSTRUCTION NOTES

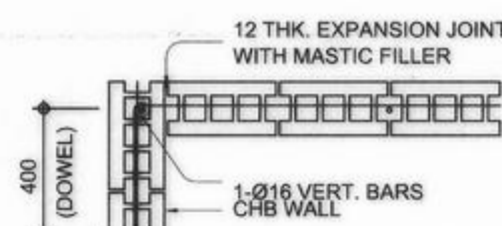
NOTES ON CONCRETE HOLLOW BLOCK WALLS

- 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 10mm \emptyset 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.

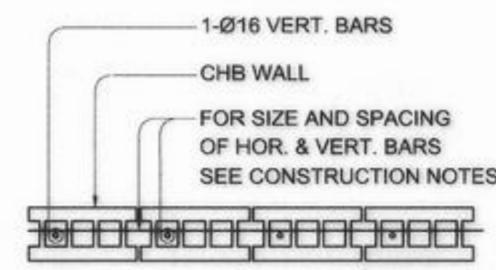
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mm \emptyset @ 600mm O.C.	10mm \emptyset @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG
125 mm	10mm \emptyset @ 600mm O.C.	10mm \emptyset @ 600mm O.C.	C. WHERE CHB OR CER. BLK. 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 \emptyset @ 600mm O.C.	10mm \emptyset @ 600mm O.C.	
200 mm	12mm \emptyset @ 600mm O.C.	12mm \emptyset @ 600mm O.C.	

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

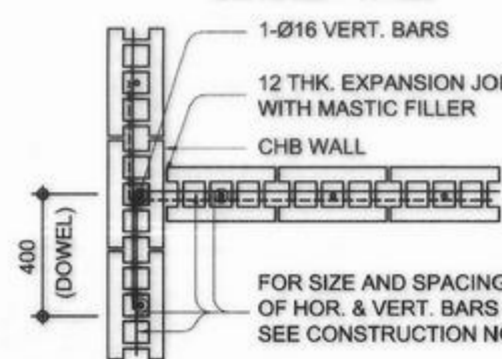
CLEAR SPAN ('L')	TOTAL LENGTH ('L'+0.40M)	MIN. FC' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M	1.60M	200	1- \emptyset 10	1- \emptyset 10	\emptyset 6mm @ 200mm	
1.50M	1.90M	200	1- \emptyset 10	1- \emptyset 10	\emptyset 6mm @ 200mm	
1.80M	2.20M	200	1- \emptyset 12	1- \emptyset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



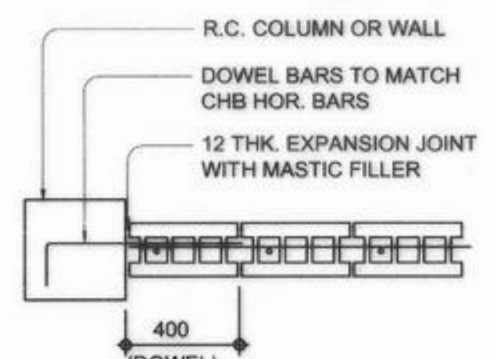
CORNER WALL



OPENING OR END WALL

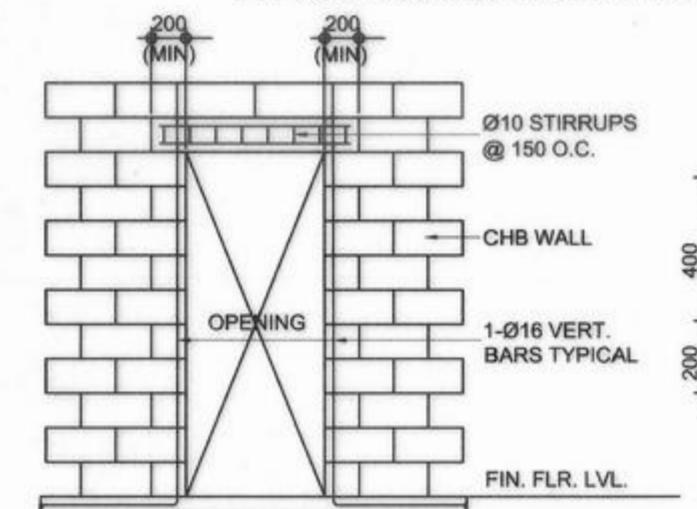


INTERSECTION WALL

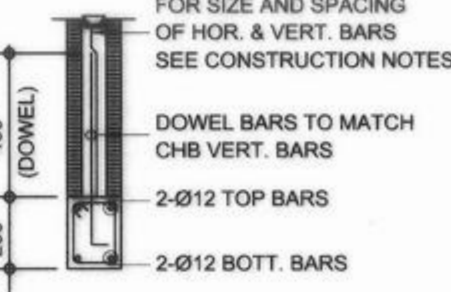


INTERSECTING R.C. COL. OR WALL

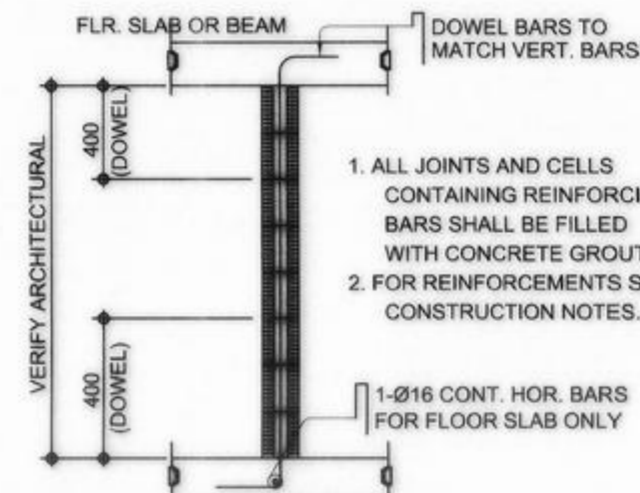
TYPICAL CONNECTION DETAIL OF MASONRY WALL



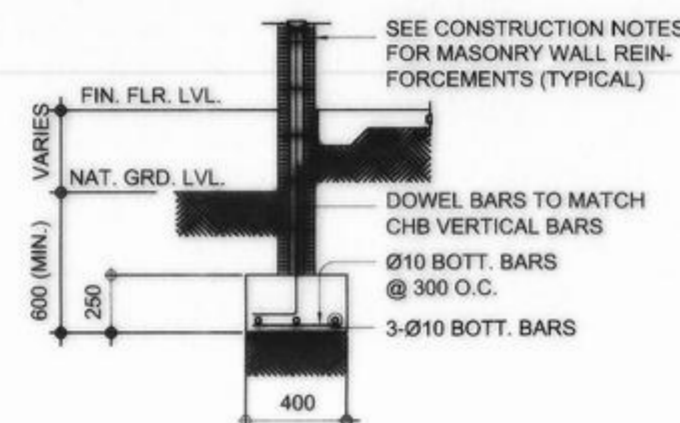
ELEVATION
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



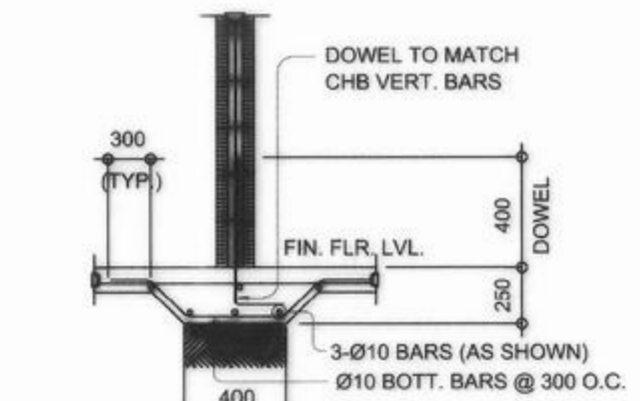
SECTION



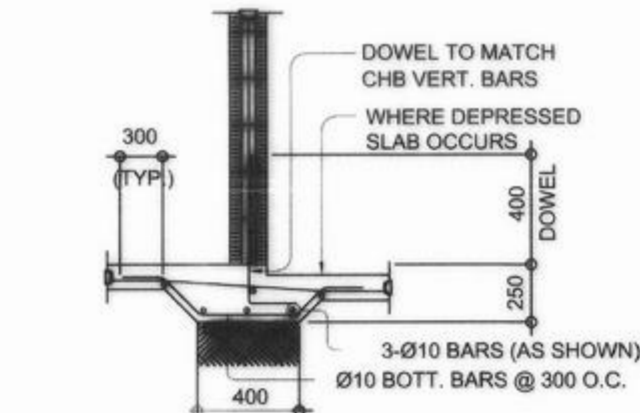
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS



TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



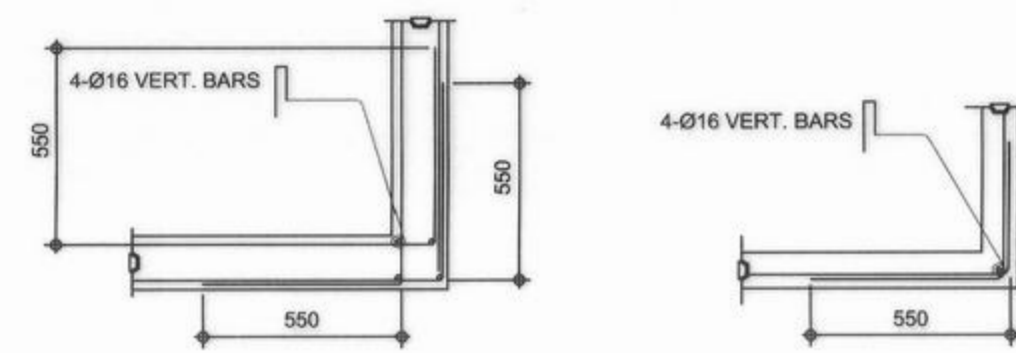
TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

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	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS	VERT. BARS STAGGERED OUT
125mm	Ø10mm @ 200mm O.C.	Ø10mm @ 250mm O.C.		
150mm	Ø12mm @ 250mm O.C.	Ø12mm @ 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 SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES 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 \emptyset BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mm \emptyset FOR 125mm AND 100mm WALLS. USE 2-12mm \emptyset 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

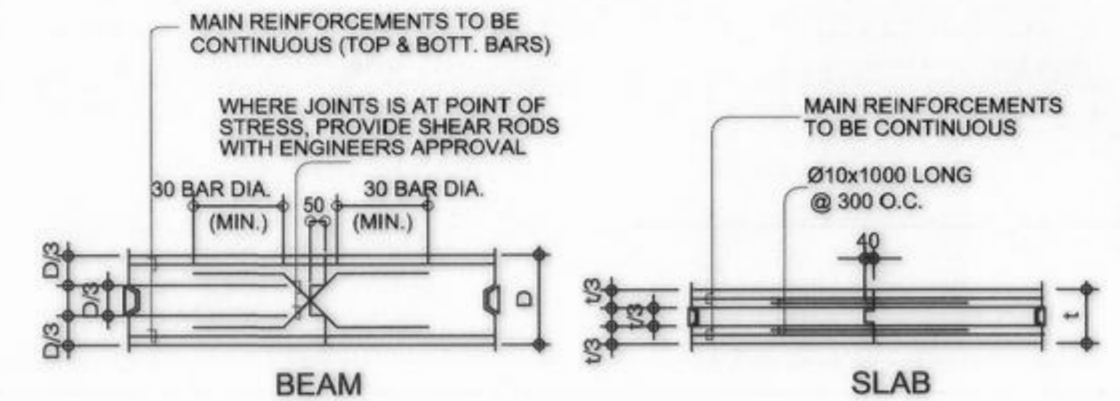
- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A 36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBEDDED PIPES

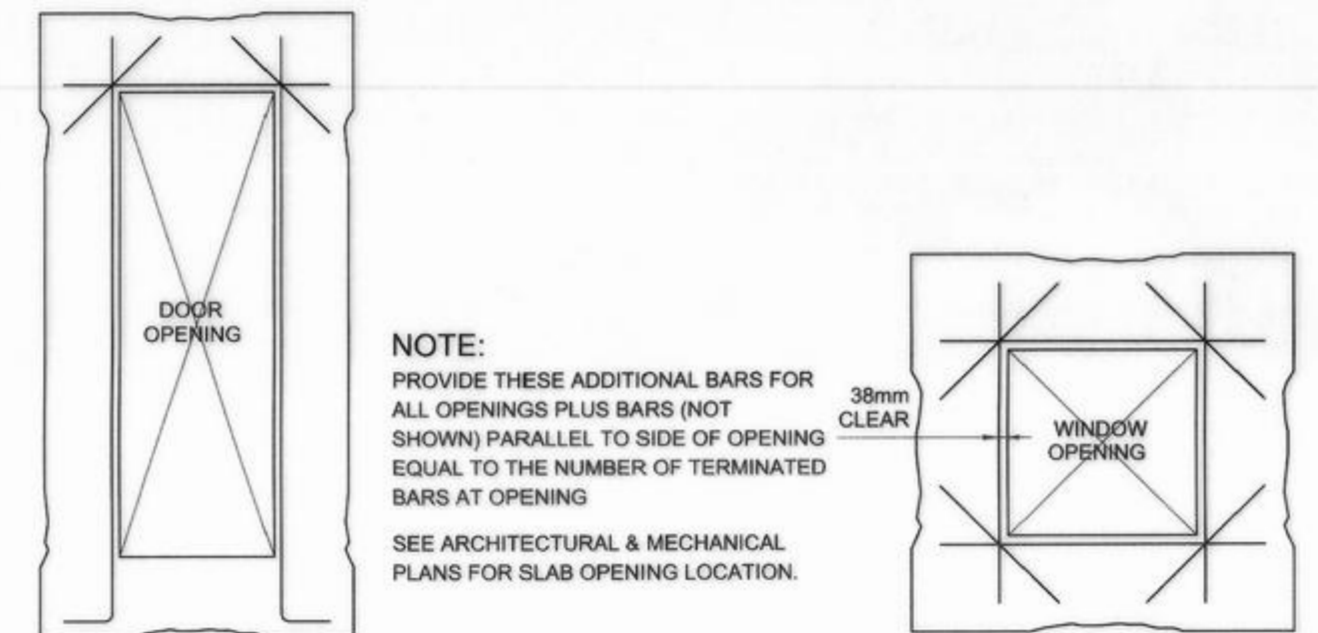
- ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL BE MAXIMUM 100mm OR D/3 WHICHEVER IS LESS DIAMETER SINGLE RIGID GALVANIZED IRON PIPE UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED TO COLUMNS.

NOTES ON CONCRETE HOLLOW BLOCK WALLS

- 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.



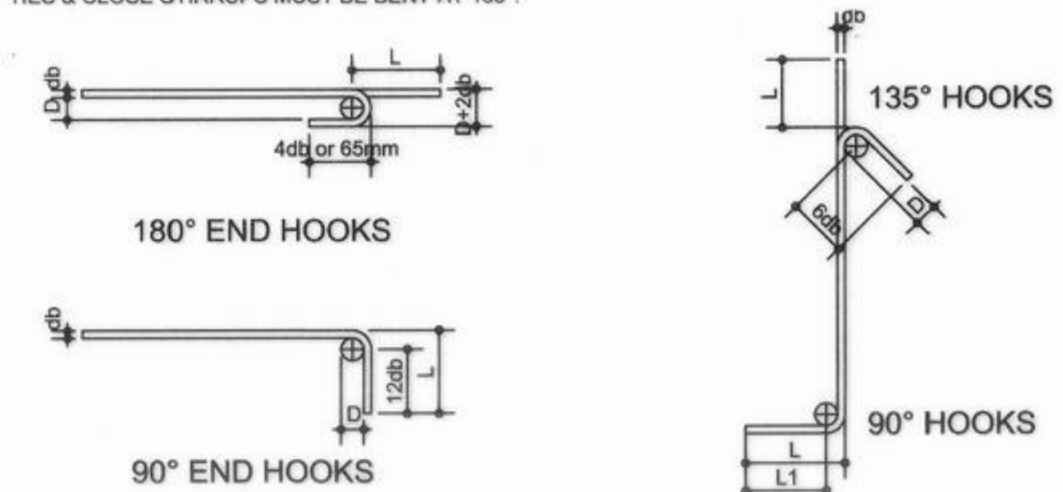
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



TYP. EXTERIOR WINDOW & DOOR OPENING

NOTES OF STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT PARTIALLY 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°.



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

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm \emptyset	40	125	85	100
12mm \emptyset	50	165	115	115
16mm \emptyset	65	200	140	150
20mm \emptyset	115	250	165	300
25mm \emptyset	150	365	230	405



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

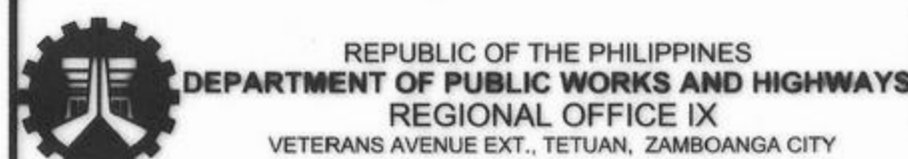
RECOMMENDING APPROVAL :

VISITACION Q. MENDOZA
DIRECTOR IV - REGIONAL DIRECTOR

AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON) :

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:
**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:
GENERAL CONSTRUCTION NOTES

PREPARED:

JULMARI A. AHIAL
ENGINEER II
REGISTERED CIVIL ENGINEER

REVIEWED:

PIO MARIO T. LAGASTESANTOS
ENGINEER III
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

SUBMITTED:

SATURNINO C. TORREFRANCA
DISTRICT ENGINEER
DIC - CHIEF, PLANNING & DESIGN DIVISION

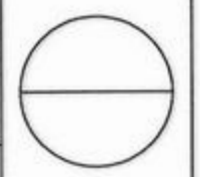
RECOMMENDED:

KHADAFY D. TANGGOL
ASSISTANT REGIONAL DIRECTOR

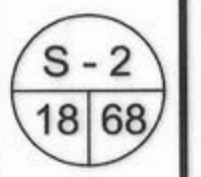
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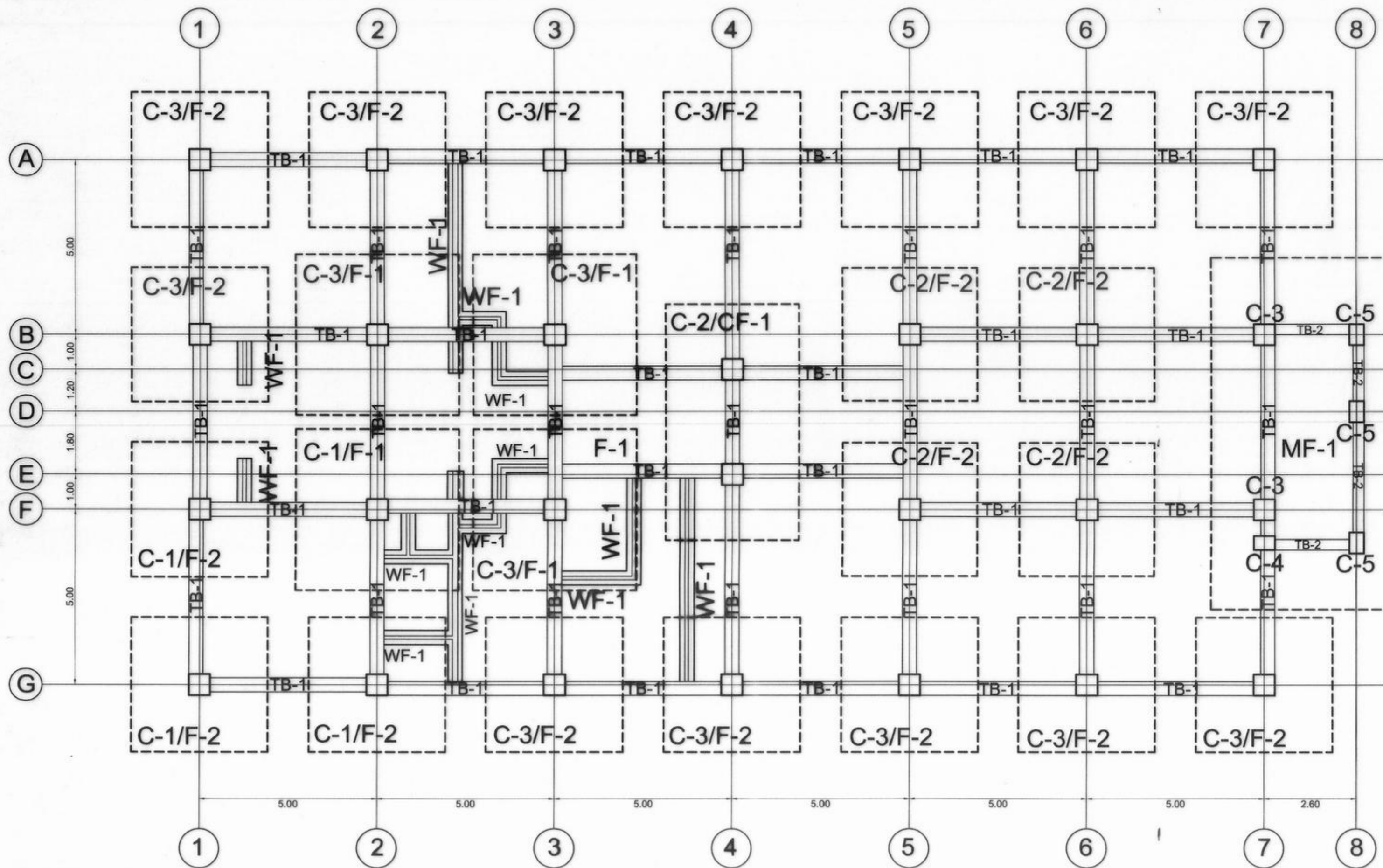
CAYAMOMBAO D. DIA, CESO IV
REGIONAL DIRECTOR

SET NO.:



SHEET NO.:

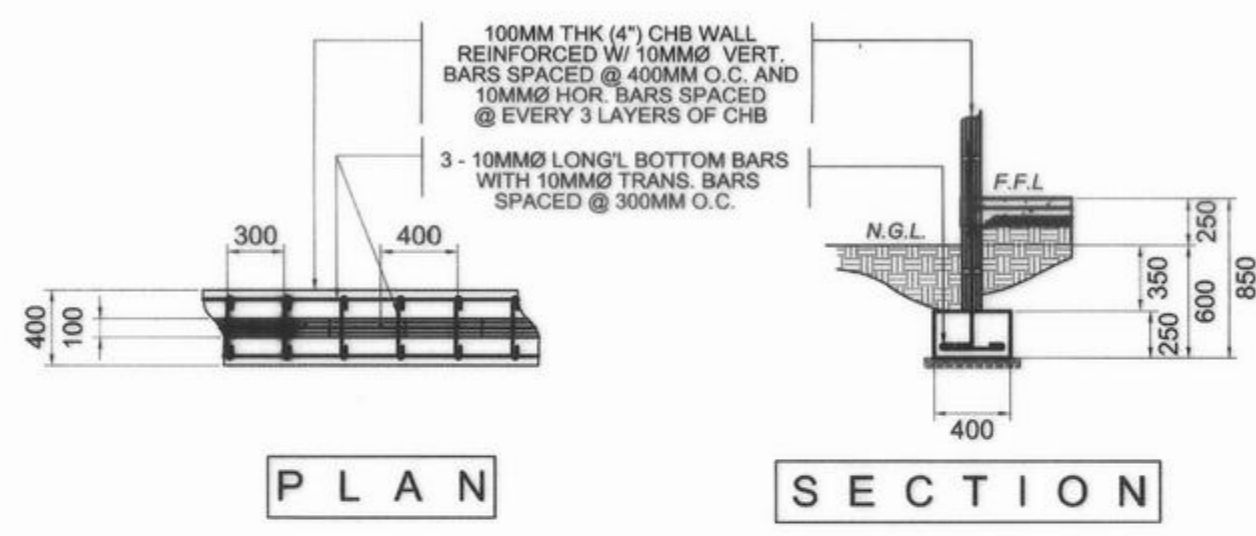




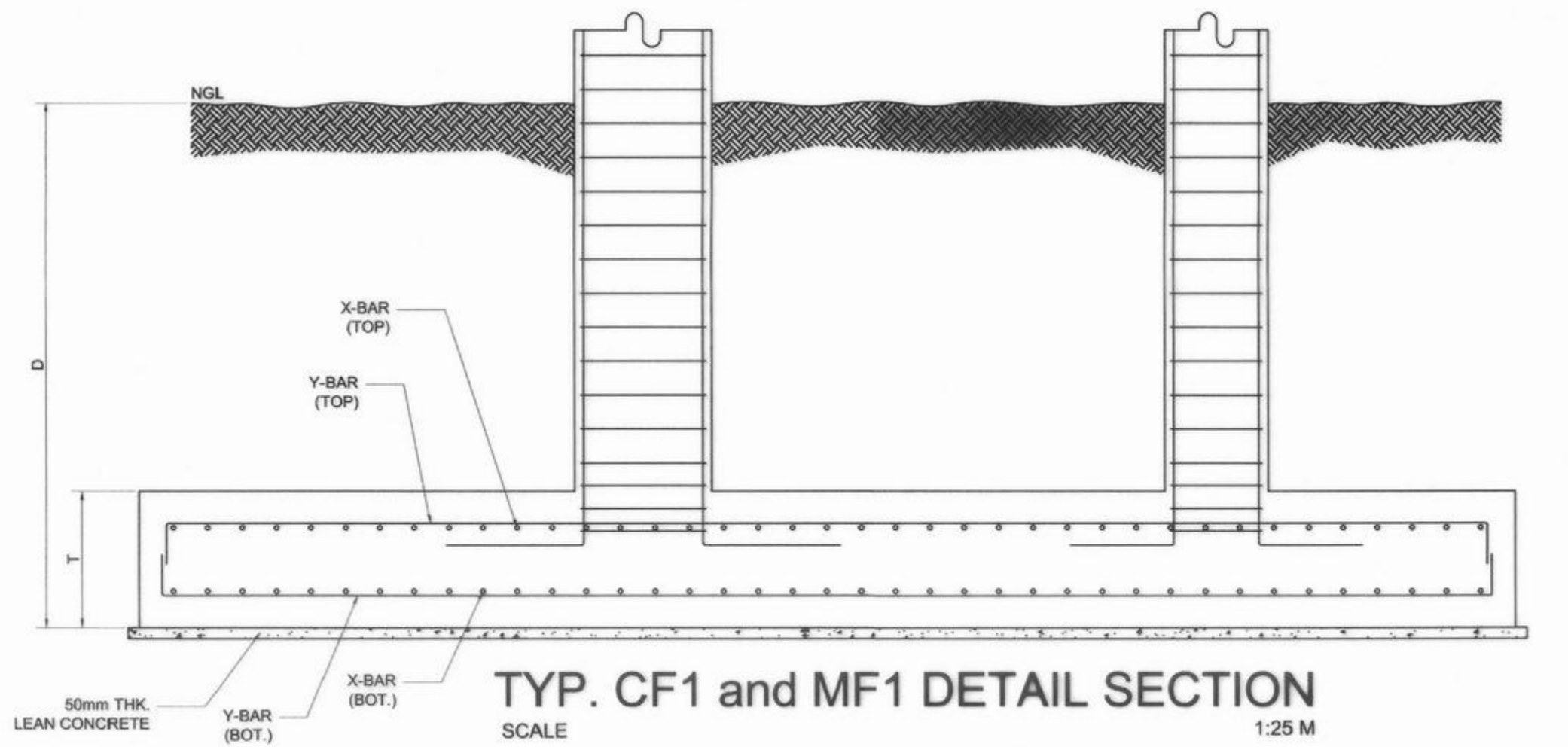
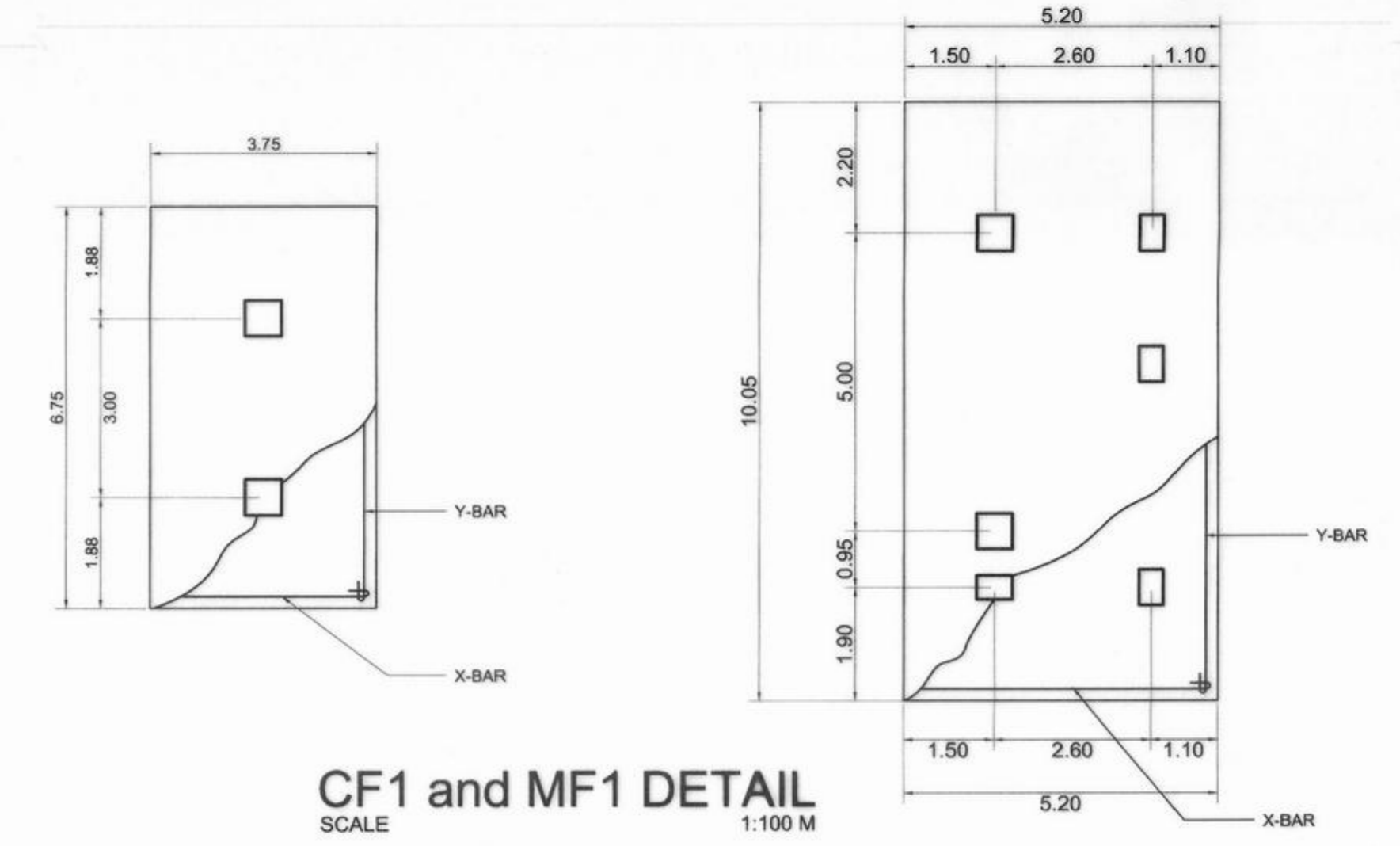
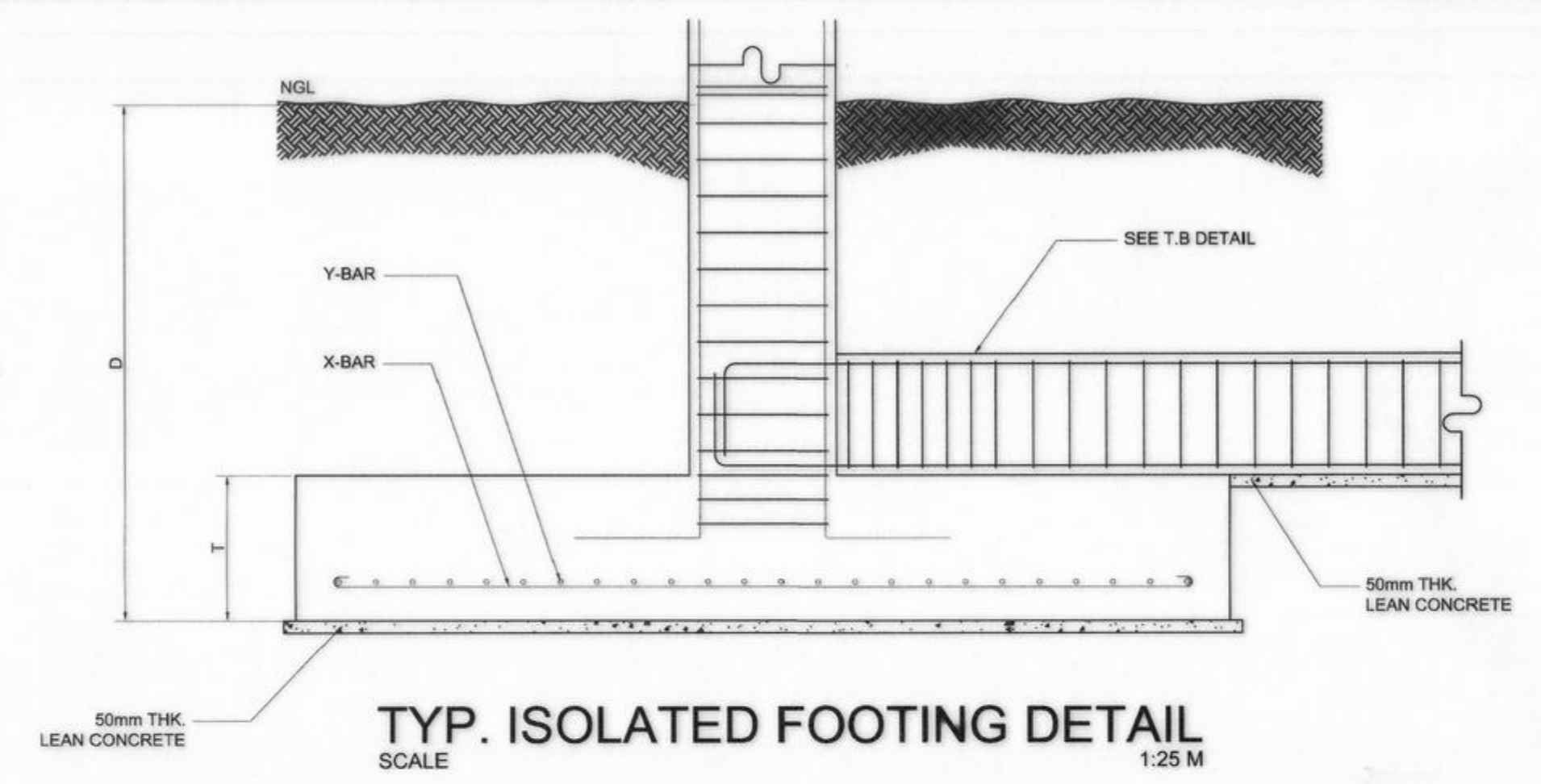
- DESIGN PARAMETERS:**
- FOOTING DESIGN IS BASED ON 95 KPa GROSS SOIL BEARING CAPACITY
 - NO WORK SHALL BE CONTINUED IF THE ACTUAL SOIL BEARING CAPACITY IS LOWER THAN THE SBC CONSIDERED, UNTIL THE APPROVAL OF THE DESIGNER
 - UNIT WEIGHT OF SOIL CONSIDERED IS 18 KN/m³
 - FOOTING CONCRETE COVER IS 75 mm

FOUNDATION PLAN
SCALE 1:100 M

FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT				REMARKS
	Length (mm)	Width (mm)	thickness (mm)	depth (mm)	BAR X		BAR Y		
					TOP	BOTTOM	TOP	BOTTOM	
F1	4600	4600	610	2100	25mm# ● 250	25mm# ● 250	25mm# ● 250	25mm# ● 250	ISOLATED
F2	3850	3850	500	2100	25mm# ● 280	25mm# ● 280	25mm# ● 280	25mm# ● 280	ISOLATED
CF1	SEE COMBINED FOOTING PLAN		400	2100	25mm# ● 400	25mm# ● 200	25mm# ● 400	25mm# ● 90	COMBINED
MF1	SEE COMBINED FOOTING PLAN		400	2100	25mm# ● 450	25mm# ● 450	25mm# ● 150	25mm# ● 200	MATTING



WF1



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

RECOMMENDING APPROVAL :

VISITACION Q. MENDOZA
DIRECTOR IV - REGIONAL DIRECTOR

AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:
**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:
FOUNDATION PLAN
TYP. ISOLATED FOOTING DETAIL
CF1 AND MF1 DETAIL AND SECTION
SCHEDULE OF FOOTING
WALL FOOTING DETAILS

PREPARED:
JULMALI A. AHIAL
REGISTERED CIVIL ENGINEER

REVIEWED:
PIO MARIO T. LACASTESANTOS
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

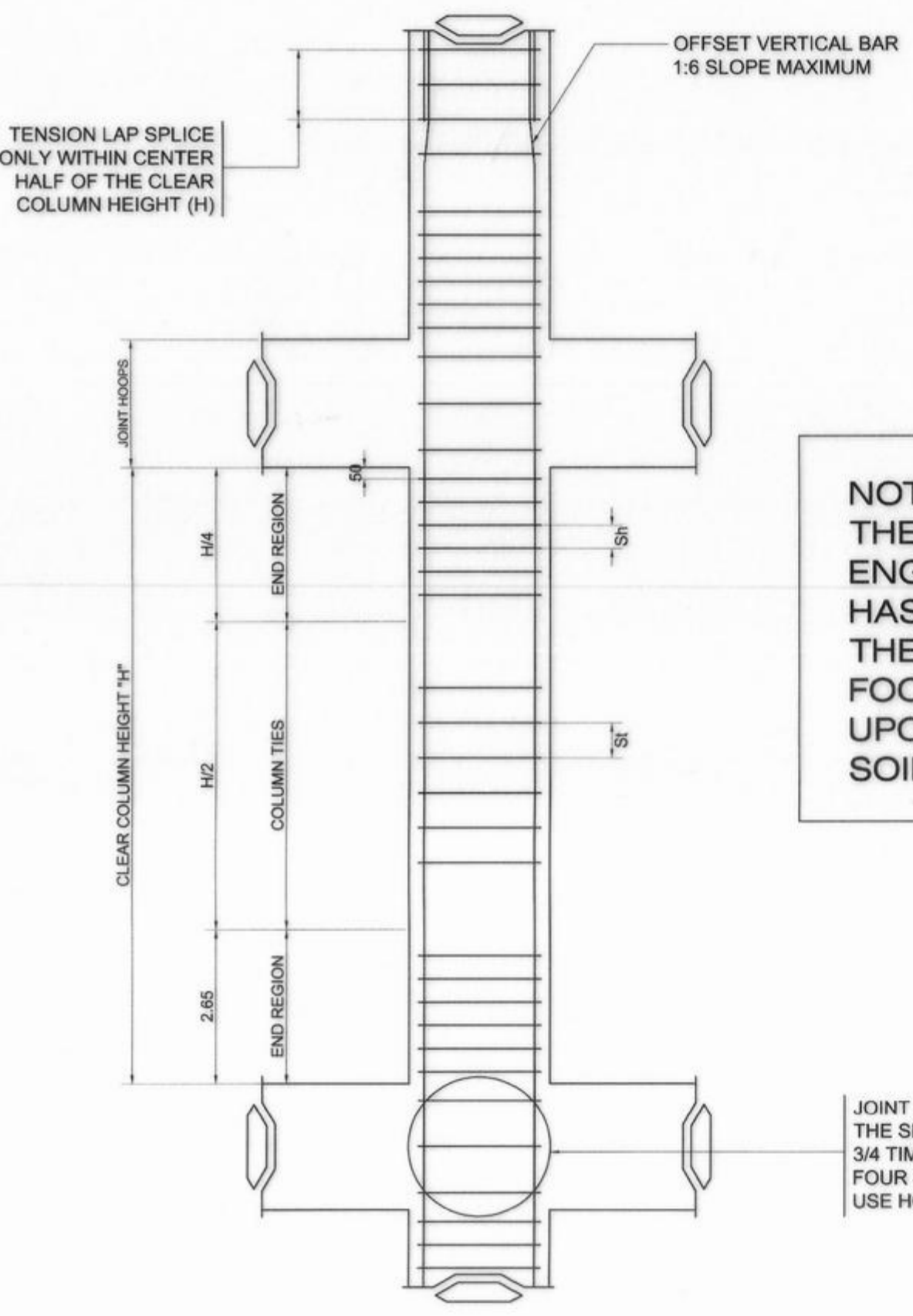
SUBMITTED:
SATURNINO C. TORREFRANCA
DISTRICT ENGINEER
D/C - CHIEF, PLANNING & DESIGN DIVISION

RECOMMENDED:
KHADAFY D. TANGGOL
ASSISTANT REGIONAL DIRECTOR

APPROVED:
CAYAMOMBAO D. DIA, CESO IV
REGIONAL DIRECTOR

SET NO. SHEET NO. **S-3**
19 68

LEVEL	COLUMN SCHEDULE				
	C1	C2	C3	C4	C5
RD TO ROOF					
	SIZE 600x600 MAIN BAR 20-25mm# TIES (L) 12mm# @ 150 - 3 SETS END REGION 12mm# @ 100 - 3 SETS	C2 is just until 3F FLR LN	C2 is just until RD FLR LN	C3 is just until RD FLR LN	C4 is just until RD FLR LN
3F TO RD					
	SIZE 600x600 MAIN BAR 20-25mm# TIES (L) 12mm# @ 150 - 3 SETS END REGION 12mm# @ 100 - 3 SETS	C2 is just until 3F FLR LN	600x600 20-25mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x400 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x600 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS
2F TO 3F					
	SIZE 600x600 MAIN BAR 20-25mm# TIES (L) 12mm# @ 150 - 3 SETS END REGION 12mm# @ 100 - 3 SETS	600x600 20-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x600 20-25mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x400 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x600 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS
GF TO 2F					
	SIZE 600x600 MAIN BAR 20-25mm# TIES (L) 12mm# @ 150 - 3 SETS END REGION 12mm# @ 100 - 3 SETS	600x600 20-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x600 20-25mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x400 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	400x600 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS
FDN TO GF					
	SIZE 600x600 MAIN BAR 20-25mm# TIES (L) 12mm# @ 150 - 3 SETS END REGION 12mm# @ 100 - 3 SETS	600x600 20-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x600 20-25mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	600x400 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS	400x600 12-20mm# 10mm# @ 150 - 3 SETS 10mm# @ 100 - 3 SETS



NOTE:
THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAS BEEN COMPLETED, TO CONFIRM THE DESIGN SOIL BEARING CAPACITY. FOOTING AND COLUMN TO BE ADJUSTED UPON CONFIRMATION OF THE ACTUAL SOIL BEARING CAPACITY.

JOINT HOOPS MUST BE SPACED @ 2Sh FOR THE DEPTH OF THE SHALLOWEST BEAM WHEN BEAMS WITH GREATER THAN 3/4 TIMES THE WIDTH OF THE COLUMN FRAME INTO THE FOUR SIDES OF A COLUMN. FOR ALL OTHER CONDITIONS, USE HOOPS SPACED @ "Sh" ON CENTER

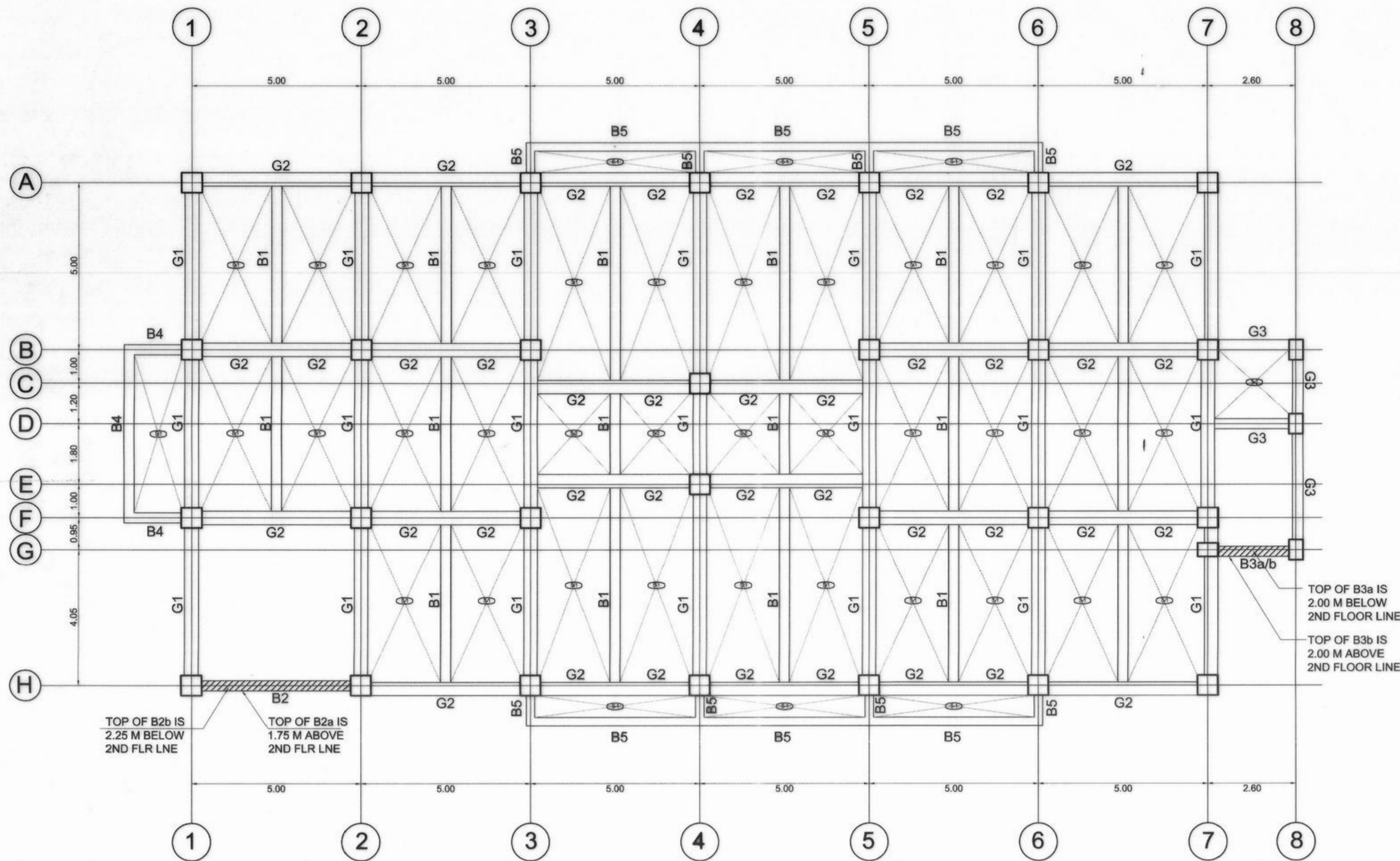
NOTES:

- Sh = HOOP & SUPPLEMENTARY CROSSTIE SPACING NOT TO EXCEED Bs/4 or 100mm.
- St = COLUMN TIE SPACING, NOT TO EXCEED 16db OF VERTICALS, 48db OF TIES, Bs or 150mm, WHICHEVER IS LESSER
- Bs = SMALLER DIMENSION OF COLUMN CROSS SECTION
- Lo = LARGEST COLUMN DIMENSION, 1/8 OF CLEAR HEIGHT OR 450mm, WHICHEVER IS GREATER
- H = CLEAR HEIGHT OF COLUMN

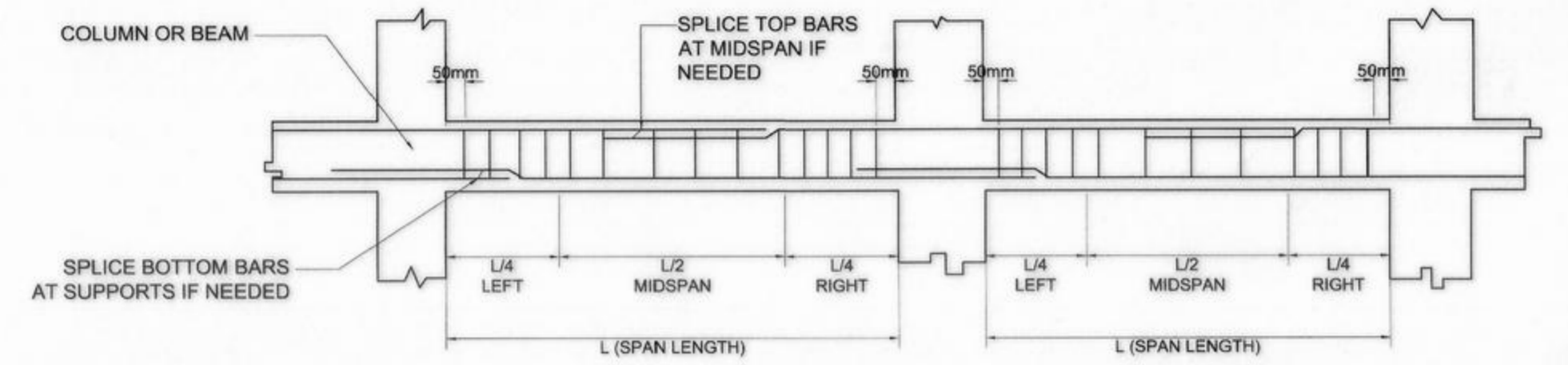
SCHEDULE OF TIE BEAMS											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS						STIRRUPS	
		b	d	LEFT		MID SPAN		RIGHT			
FOUNDN				REBAR (mm Ø)	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
	TB-1	400	600	Ø20mm	12	6	6	6	12	6	10mmØ BARS SPACED 1 @ 50, 6 @ 100, & REST 150 UP TO 1
	TB-2	300	500	Ø20mm	8	4	4	4	8	4	

*16mmØ or Bigger- USE GRADE 60 (414 MPa)
*12mmØ or Smaller- USE GRADE 40 (275 MPa)

<p>REPUBLIC OF THE PHILIPPINES COMMISSION ON AUDIT REGIONAL OFFICE NO. IX CABATANGAN, ZAMBOANGA CITY</p>	RECOMMENDING APPROVAL :		APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):						
	<p>VISITACION Q. MENDOZA DIRECTOR IV - REGIONAL DIRECTOR</p>		<p>AMELIA P. VALDEZ DIRECTOR IV - GENERAL SERVICES OFFICE</p>			<p>LORNA D. CABOCHAN ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR</p>			
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY</p>	PROJECT & LOCATION:	SHEET CONTENT:	PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.:
	<p>COA REGIONAL OFFICE NO. IX TRAINING CENTER AND DORMITORY BUILDING CABATANGAN, ZAMBOANGA CITY</p>	<p>COLUMN SCHEDULE TIE BEAM SCHEDULE</p>	<p>JULMALI A. AHYAL ENGINEER II REGISTERED CIVIL ENGINEER</p>	<p>PIO MARIO T. LACASTESANTOS ENGINEER III CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION</p>	<p>SATURNINO C. TORREFRANCA DISTRICT ENGINEER OIC - CHIEF, PLANNING & DESIGN DIVISION</p>	<p>KHADAFFY B. TANGGOL ASSISTANT REGIONAL DIRECTOR</p>	<p>CAYAMOMBAO D. DIA, CESO IV REGIONAL DIRECTOR</p>		<p>S - 4 20/68</p>



SECOND FLOOR FRAMING PLAN
SCALE 1:100 M



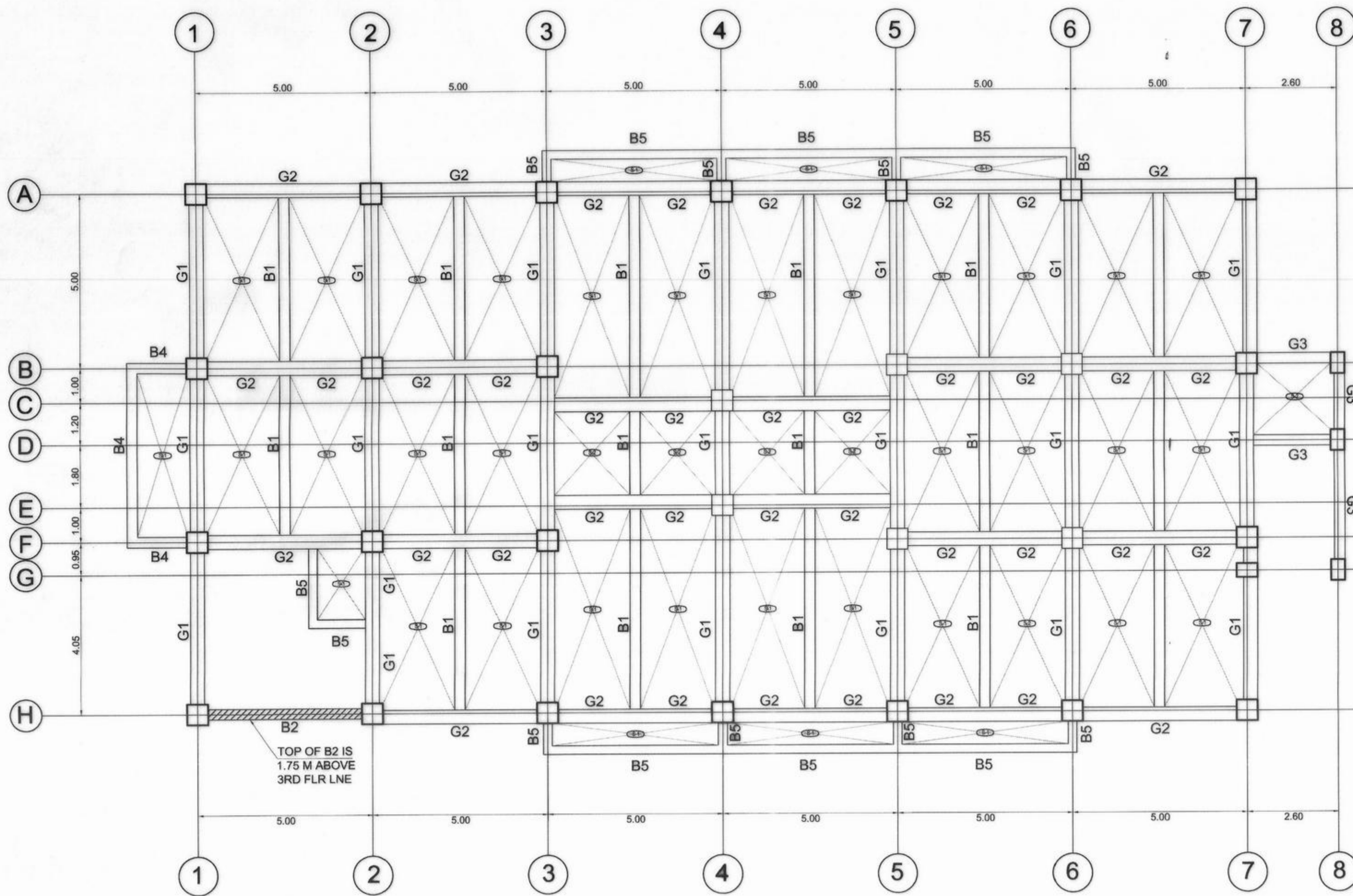
TYPICAL BEAM ELEVATION
SCALE NTS

SCHEDULE OF MAIN BEAMS											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS						STIRRUPS	
		B	D	LEFT		MID SPAN		RIGHT			
				REBAR (mm Ø)	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	STIFFENER BARS
2F LVL	G-1	400	550	Ø20mm	10	5	5	5	10	5	2 - 12mm Ø
	G-2	400	550	Ø20mm	12	6	6	6	12	6	
	G-3	300	450	Ø20mm	6	3	3	3	6	3	

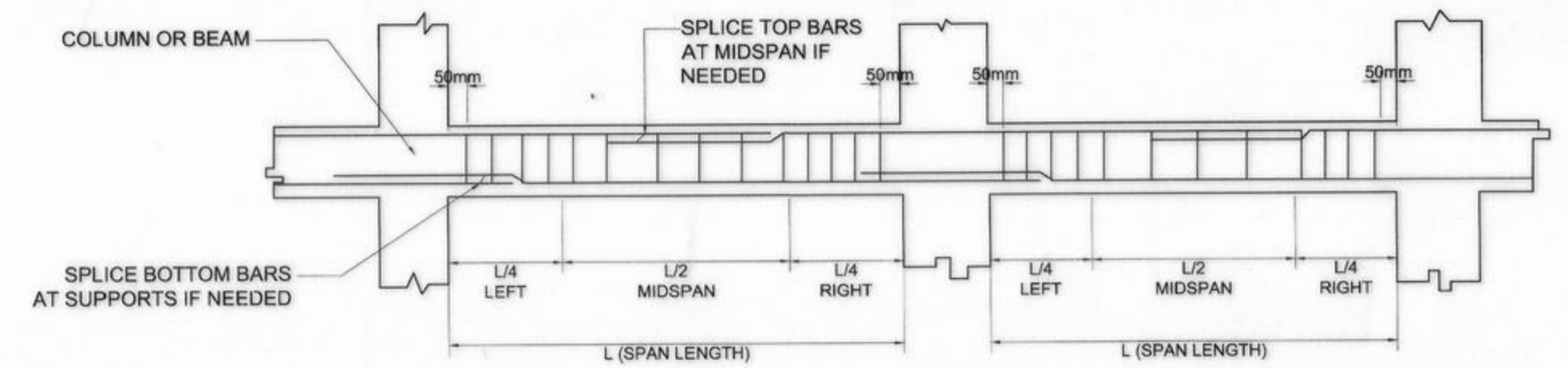
SCHEDULE OF SECONDARY BEAMS											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS						STIRRUPS	
		B	D	LEFT		MID SPAN		RIGHT			
				REBAR (mm Ø)	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	STIFFENER BARS
2ND FLR LVL	B-1	300	450	Ø20mm	7	5	5	5	7	5	2 - 12mm Ø
	B-2a/b	300	450	Ø20mm	5	4	4	4	5	4	
	B-3a/b	300	450	Ø20mm	5	4	4	4	5	4	
	B-4	300	450	Ø20mm	6	3	3	6	5	3	
	B-5	250	400	Ø20mm	4	2	2	2	4	2	

SCHEDULE OF SLABS																		
FLOOR LEVEL	MARK	THICKNESS	REBAR (mm Ø)	ALONG SHORT DIRECTION						ALONG LONG DIRECTION						REMARKS		
				CONTINUOUS		MID SPAN		DISCONTINUOUS		REBAR (mm Ø)	CONTINUOUS		MID SPAN		DISCONTINUOUS			
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM	TOP	BOTTOM	TOP		BOTTOM	
2F	S-1	150	Ø12mm	150	150	150	150	150	150	150	150	150	150	150	150	150	150	1-WAY SLAB
	S-2	150	Ø12mm	150	150	150	150	150	150	150	150	150	150	150	150	150	150	2-WAY SLAB

<p>REPUBLIC OF THE PHILIPPINES COMMISSION ON AUDIT REGIONAL OFFICE NO. IX CABATANGAN, ZAMBOANGA CITY</p>	RECOMMENDING APPROVAL :		APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON) :						
	<p>VISITACION Q. MENDOZA DIRECTOR IV - REGIONAL DIRECTOR</p>		<p>AMELIA P. VALDEZ DIRECTOR IV - GENERAL SERVICES OFFICE</p>			<p>LORNA D. CABOCHAN ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR</p>			
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY</p>	<p>PROJECT & LOCATION: COA REGIONAL OFFICE NO. IX TRAINING CENTER AND DORMITORY BUILDING CABATANGAN, ZAMBOANGA CITY</p>	<p>SHEET CONTENT: SECOND FLOOR FRAMING PLAN SCHEDULE OF MAIN BEAMS SCHEDULE OF SECONDARY BEAMS SCHEDULE OF SLABS TYPICAL BEAM ELEVATION</p>	<p>PREPARED: JULMALI A. AHYAL ENGINEER II REGISTERED CIVIL ENGINEER</p>	<p>REVIEWED: PIO MARIO T. LACASTESANTOS ENGINEER III CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION</p>	<p>SUBMITTED: SATURNINO C. TORREFRANCA DISTRICT ENGINEER OIC - CHIEF, PLANNING & DESIGN DIVISION</p>	<p>RECOMMENDED: KHADAFY D. TANGGOL ASSISTANT REGIONAL DIRECTOR</p>	<p>APPROVED: CAYAMOMBAO D. DIA, CESO IV REGIONAL DIRECTOR</p>	<p>SET NO. </p>	<p>SHEET NO.: S-5 21 / 68</p>



THIRD FLOOR FRAMING PLAN
SCALE 1:100 M



TYPICAL BEAM ELEVATION
SCALE NTS

		SCHEDULE OF MAIN BEAMS										
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		REBAR (mm Ø)	STEEL REINFORCEMENTS						STIFFENER BARS	STIRRUPS
		B	D		LEFT		MID SPAN		RIGHT			
					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		
3F LVL	G-1	400	550	Ø20mm	10	5	5	5	10	5	2 - 12mm Ø	10mmØ : 1 @50, 3 @75, 6 @ 100, REST AT 150 TO L
	G-2	400	550	Ø20mm	12	6	6	6	12	6		
	G-3	300	450	Ø20mm	4	2	2	2	4	2		

		SCHEDULE OF SECONDARY BEAMS										
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		REBAR (mm Ø)	STEEL REINFORCEMENTS						STIFFENER BARS	STIRRUPS
		B	D		LEFT		MID SPAN		RIGHT			
					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		
3F LVL	B-1	300	450	Ø20mm	6	4	4	4	6	4	2 - 12mm Ø	10mmØ : 1 @50, 3 @75, 6 @ 100, REST AT 150 TO L
	B-2	300	450	Ø20mm	5	4	4	4	5	4		
	B-4	300	450	Ø20mm	6	3	3	3	6	3		
	B-5	250	400	Ø20mm	4	2	2	2	4	2		

		SCHEDULE OF SLABS																	
FLOOR LEVEL	MARK	THICKNESS	REBAR (mm Ø)	ALONG SHORT DIRECTION						ALONG LONG DIRECTION						REMARKS			
				CONTINUOUS		MID SPAN		DISCONTINUOUS		CONTINUOUS		MID SPAN		DISCONTINUOUS					
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM				
3F	S-1	150	Ø12mm	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	1-WAY SLAB
	S-2	150	Ø12mm	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	2-WAY SLAB



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

RECOMMENDING APPROVAL :

VISITACION Q. MENDOZA
DIRECTOR IV - REGIONAL DIRECTOR

AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON) :

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:

**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:

THIRD FLOOR FRAMING PLAN
SCHEDULE OF MAIN BEAMS
SCHEDULE OF SECONDARY BEAMS
SCHEDULE OF SLABS
TYPICAL BEAM ELEVATION

PREPARED:

JULMALI A. AHYAL
ENGINEER II
REGISTERED CIVIL ENGINEER

REVIEWED:

PIO MARIO T. LACASTESANTOS
ENGINEER III
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

SUBMITTED:

SATURNINO C. TORREFRANCA
DISTRICT ENGINEER
CIC - CHIEF, PLANNING & DESIGN DIVISION

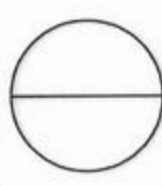
RECOMMENDED:

KHADAFFY D. TANGGOL
ASSISTANT REGIONAL DIRECTOR

APPROVED:

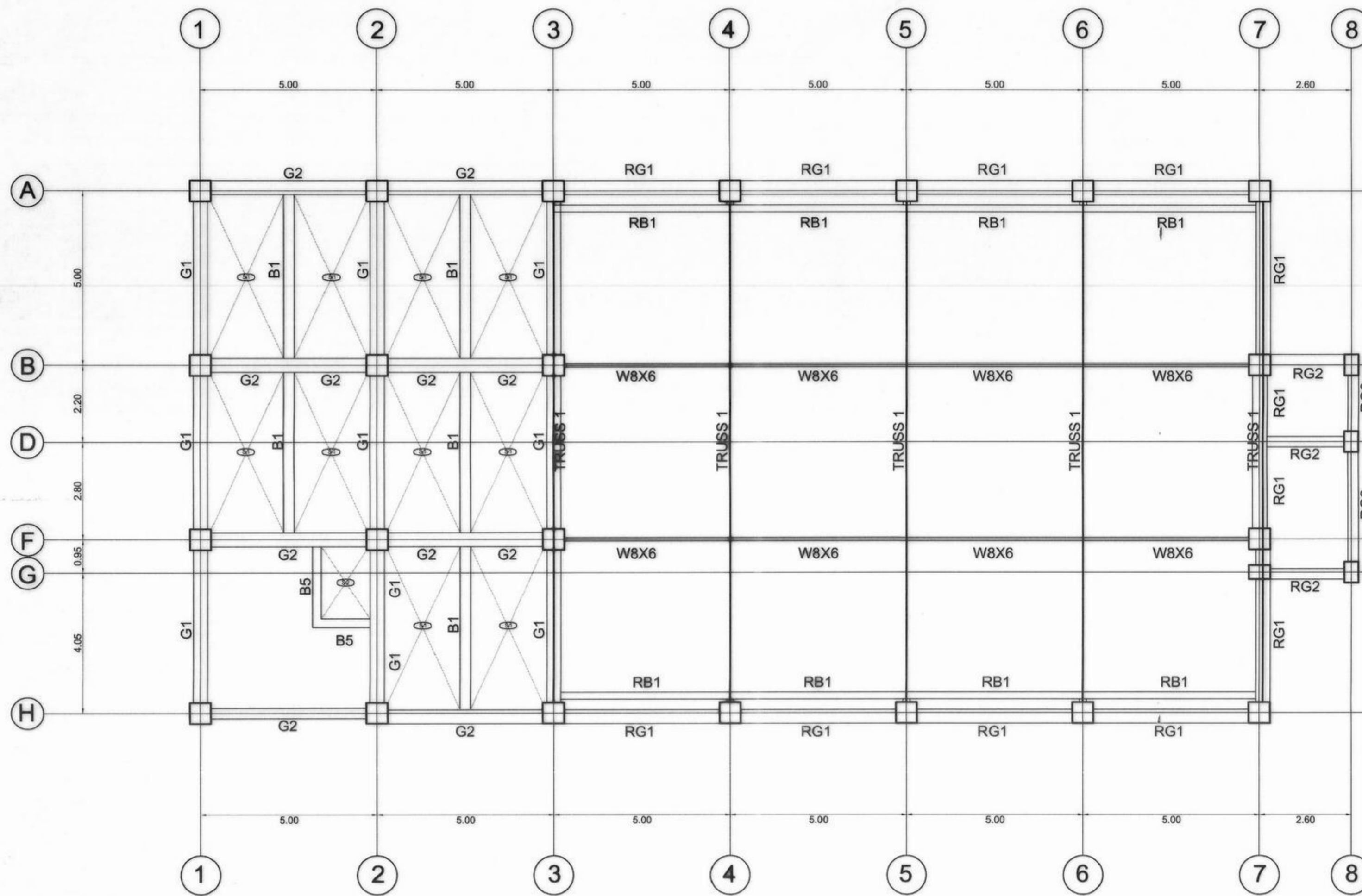
CAYAMOMBAO D. DIA, CESO IV
REGIONAL DIRECTOR

SET NO.

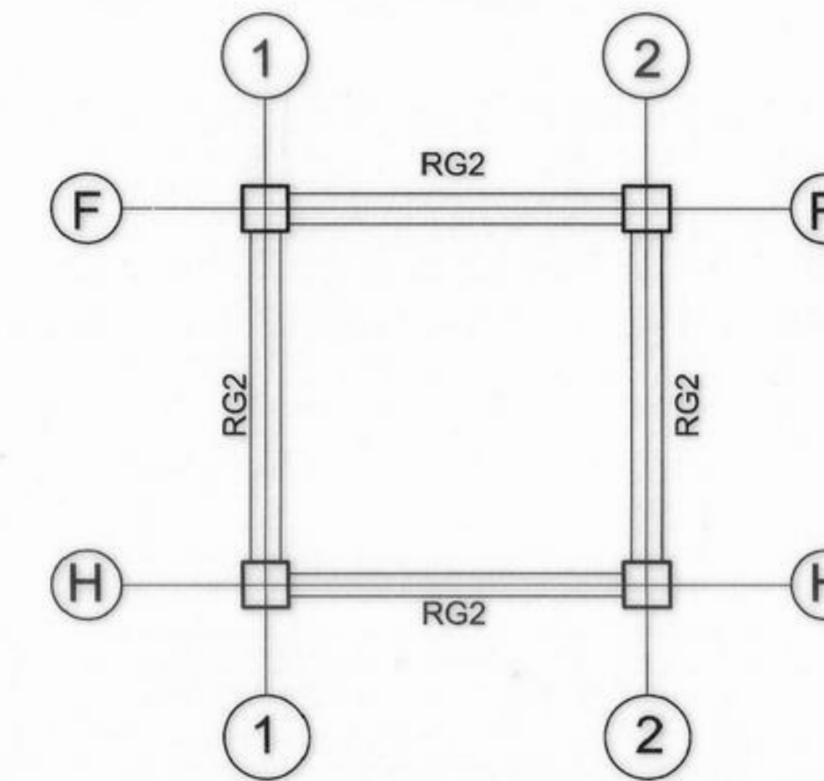


SHEET NO.:





ROOF DECK FRAMING PLAN
SCALE 1:100 M



ROOF FRAMING PLAN
SCALE 1:100 M

SCHEDULE OF MAIN BEAMS											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS							STIRRUPS
		B	D	REBAR (mm Ø)	LEFT		MID SPAN		RIGHT		
RD LEVEL					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
	G1	400	550	Ø20mm	6	3	3	3	6	3	10mmØ : 1 @50, 3 @75, 6 @100, REST AT 150 TO 1
	G2	400	550	Ø20mm	8	4	4	4	8	4	
	RG1	400	550	Ø20mm	4	2	2	2	4	2	
	RG2	300	450	Ø20mm	2	2	2	2	2	2	

SCHEDULE OF SECONDARY BEAMS											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS							STIRRUPS
		B	D	REBAR (mm Ø)	LEFT		MID SPAN		RIGHT		
RD LEVEL					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
	B-1	300	450	Ø20mm	4	2	2	2	4	2	10mmØ : 1 @50, 3 @75, 6 @100, REST AT 150 TO 1
	B-5	250	400	Ø20mm	4	2	2	4	2	2	
	RB-1	200	300	Ø20mm	6	3	3	3	6	3	

SCHEDULE OF SLABS																	
FLOOR LEVEL	MARK	THICKNESS	REBAR (mm Ø)	ALONG SHORT DIRECTION						ALONG LONG DIRECTION						REMARKS	
				CONTINUOUS		MID SPAN		DISCONTINUOUS		REBAR (mm Ø)	CONTINUOUS		MID SPAN		DISCONTINUOUS		
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM	TOP	BOTTOM	TOP		BOTTOM
RD	S-1	150	Ø12mm	150	150	150	150	150	150	Ø12mm	150	150	150	150	150	150	1-WAY SLAB



REPUBLIC OF THE PHILIPPINES
COMMISSION ON AUDIT
REGIONAL OFFICE NO. IX
CABATANGAN, ZAMBOANGA CITY

RECOMMENDING APPROVAL :

VISITACION Q. MENDOZA
DIRECTOR IV - REGIONAL DIRECTOR

AMELIA P. VALDEZ
DIRECTOR IV - GENERAL SERVICES OFFICE

APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON) :

LORNA D. CABOCHAN
ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY

PROJECT & LOCATION:
**COA REGIONAL OFFICE NO. IX
TRAINING CENTER AND
DORMITORY BUILDING**
CABATANGAN, ZAMBOANGA CITY

SHEET CONTENT:
ROOF DECK FRAMING PLAN
ROOF BEAM PLAN
SCHEDULE OF MAIN BEAMS
SCHEDULE OF SECONDARY BEAMS
SCHEDULE OF SLABS

PREPARED:

JULMALI A. AHYAL
ENGINEER II
REGISTERED CIVIL ENGINEER

REVIEWED:

PIO MARIO T. LACASTESANTOS
ENGINEER III
CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION

SUBMITTED:

SATURNINO C. TORREFRANCA
DISTRICT ENGINEER
CIC, CHIEF, PLANNING & DESIGN DIVISION

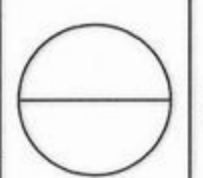
RECOMMENDED:

KHADAFFY D. JANGGOL
ASSISTANT REGIONAL DIRECTOR

APPROVED:

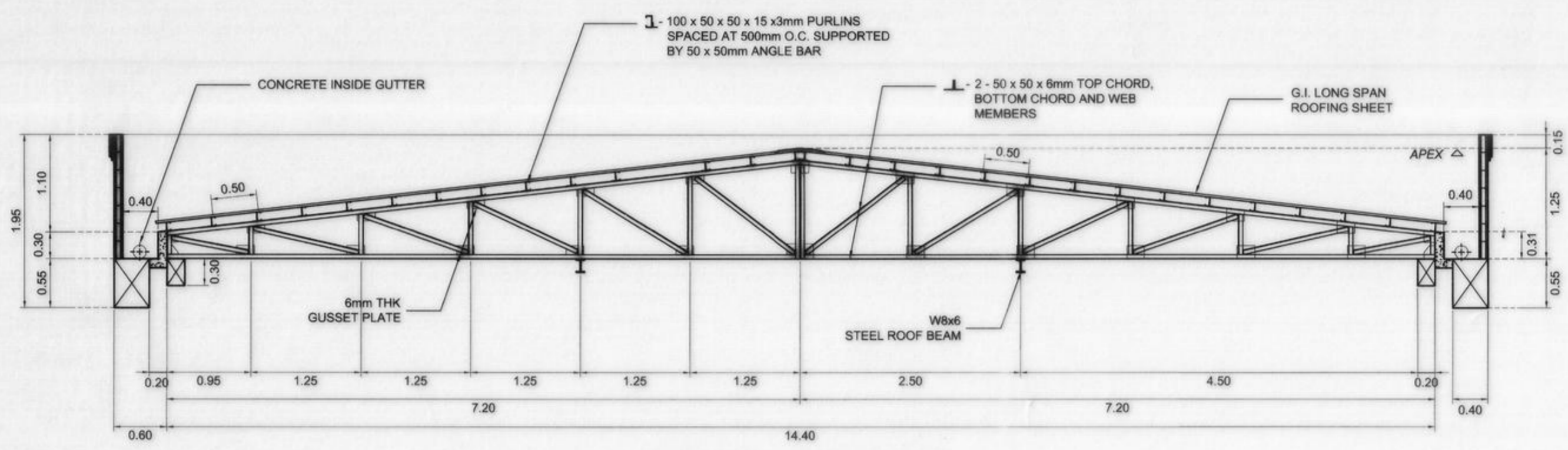
CAYAMOMBAO D. DIA, CESO IV
REGIONAL DIRECTOR

SET NO.

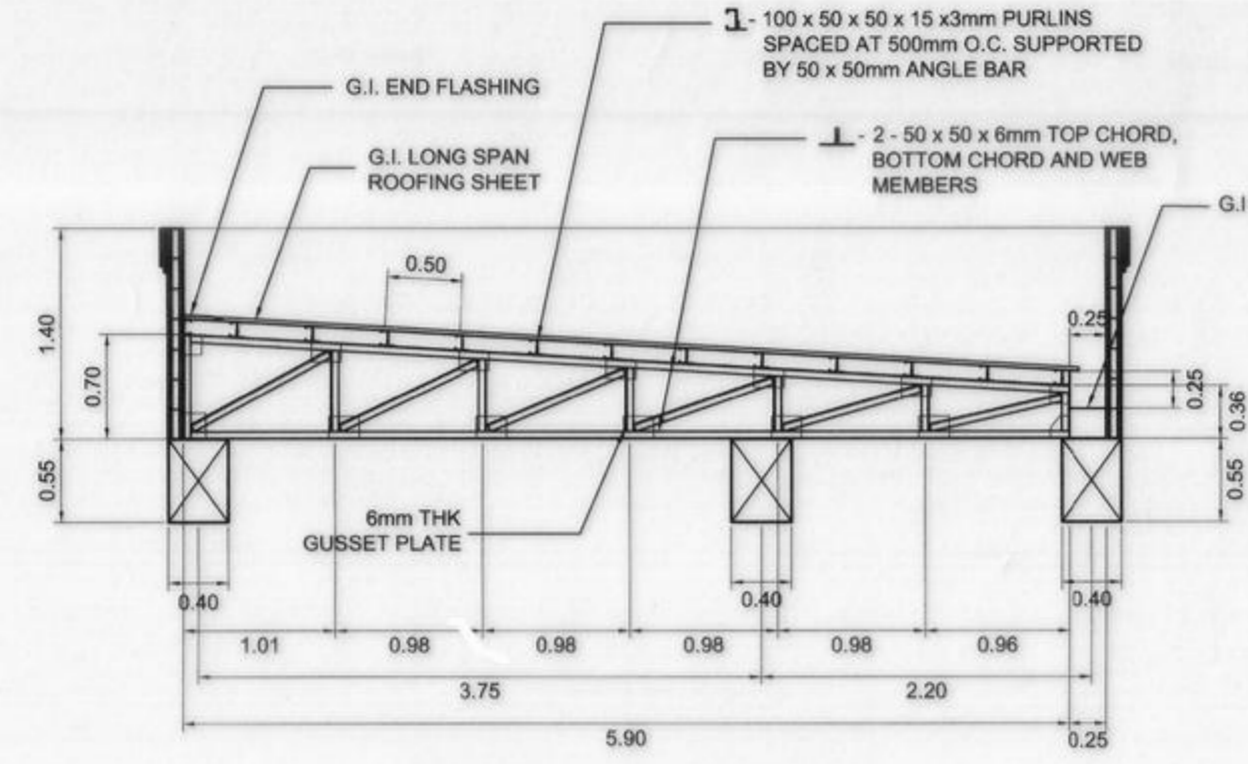


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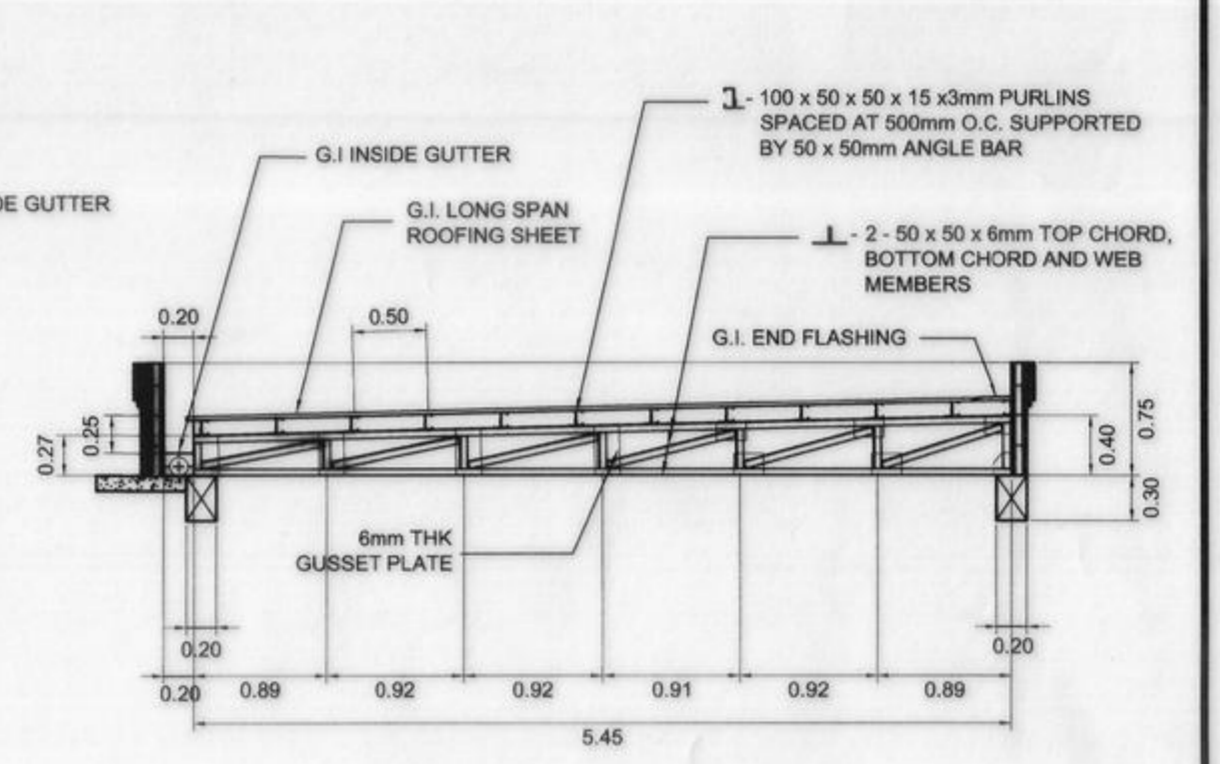
S-7
23/68



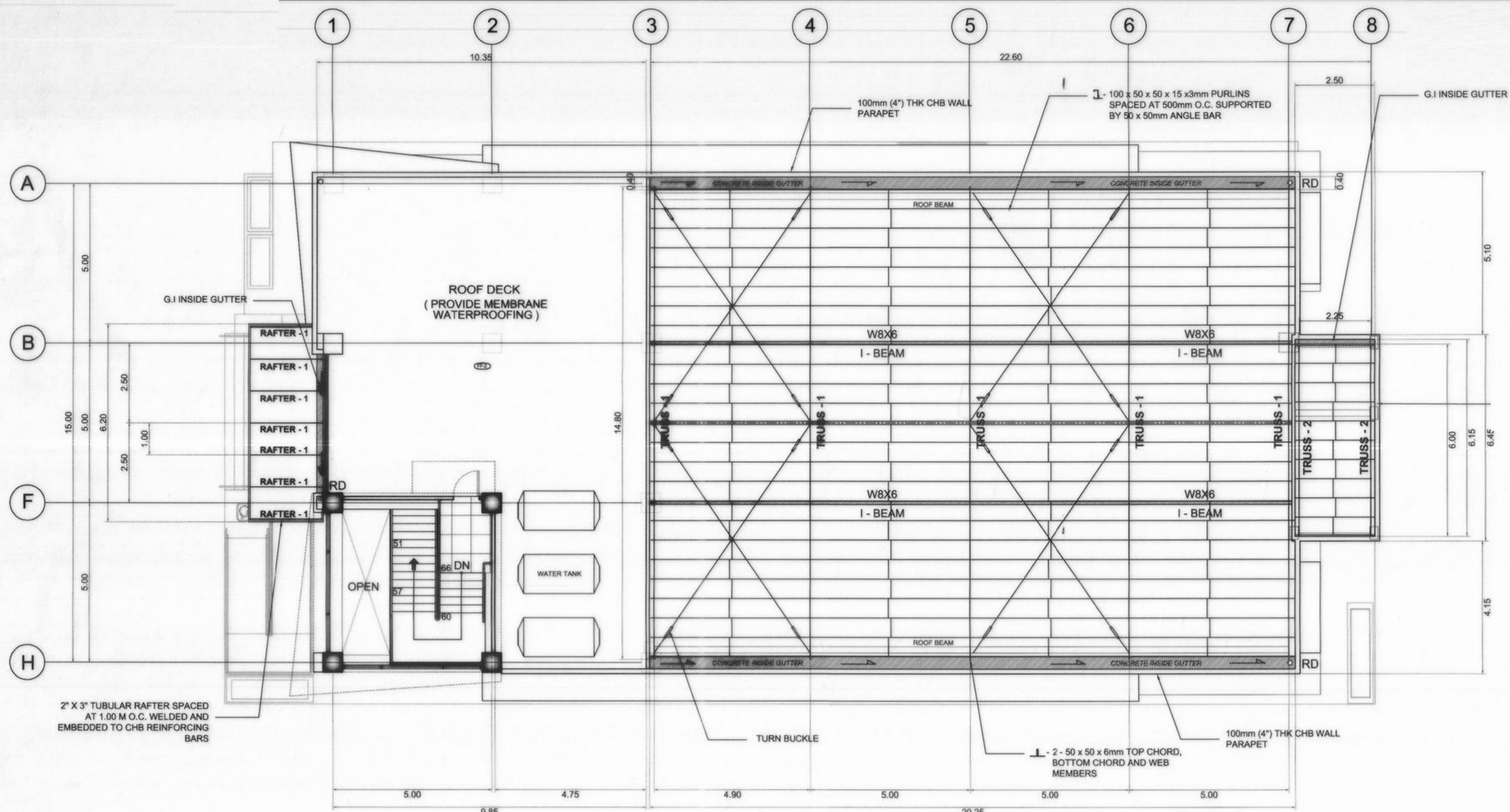
TRUSS - 1 DETAILS
SCALE 1:50 MM



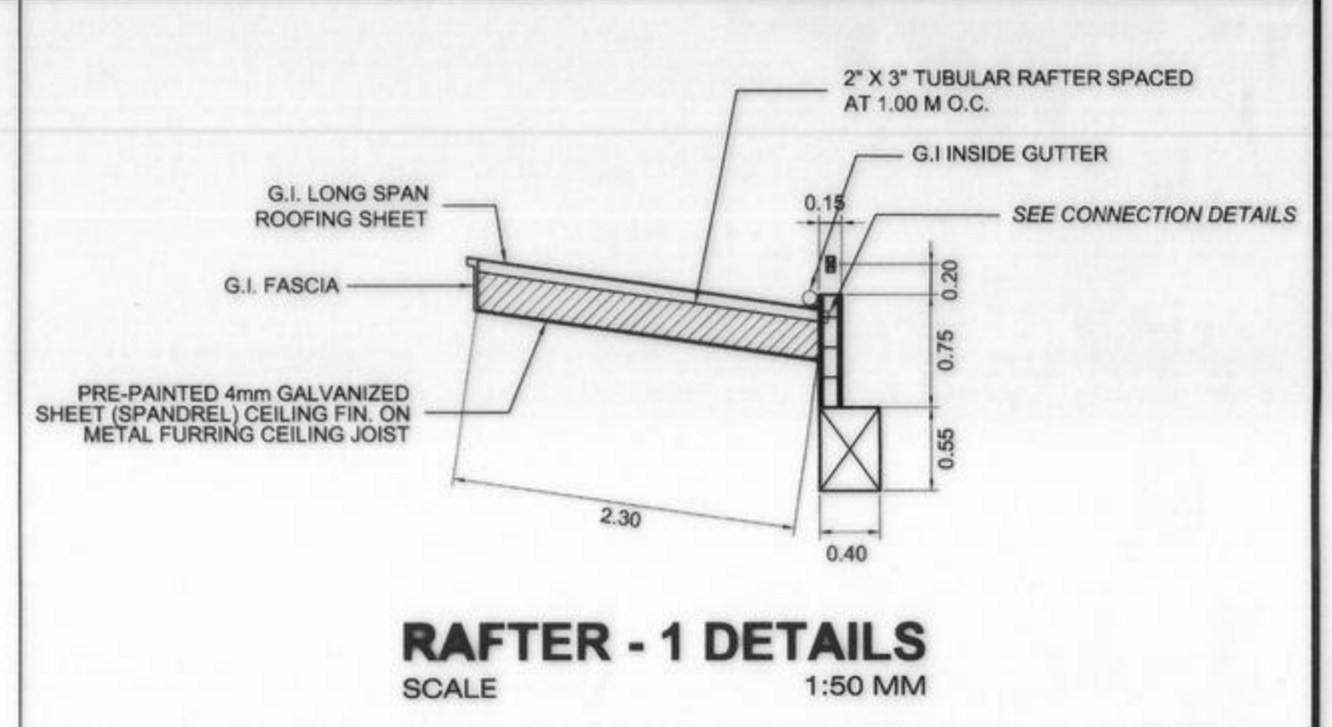
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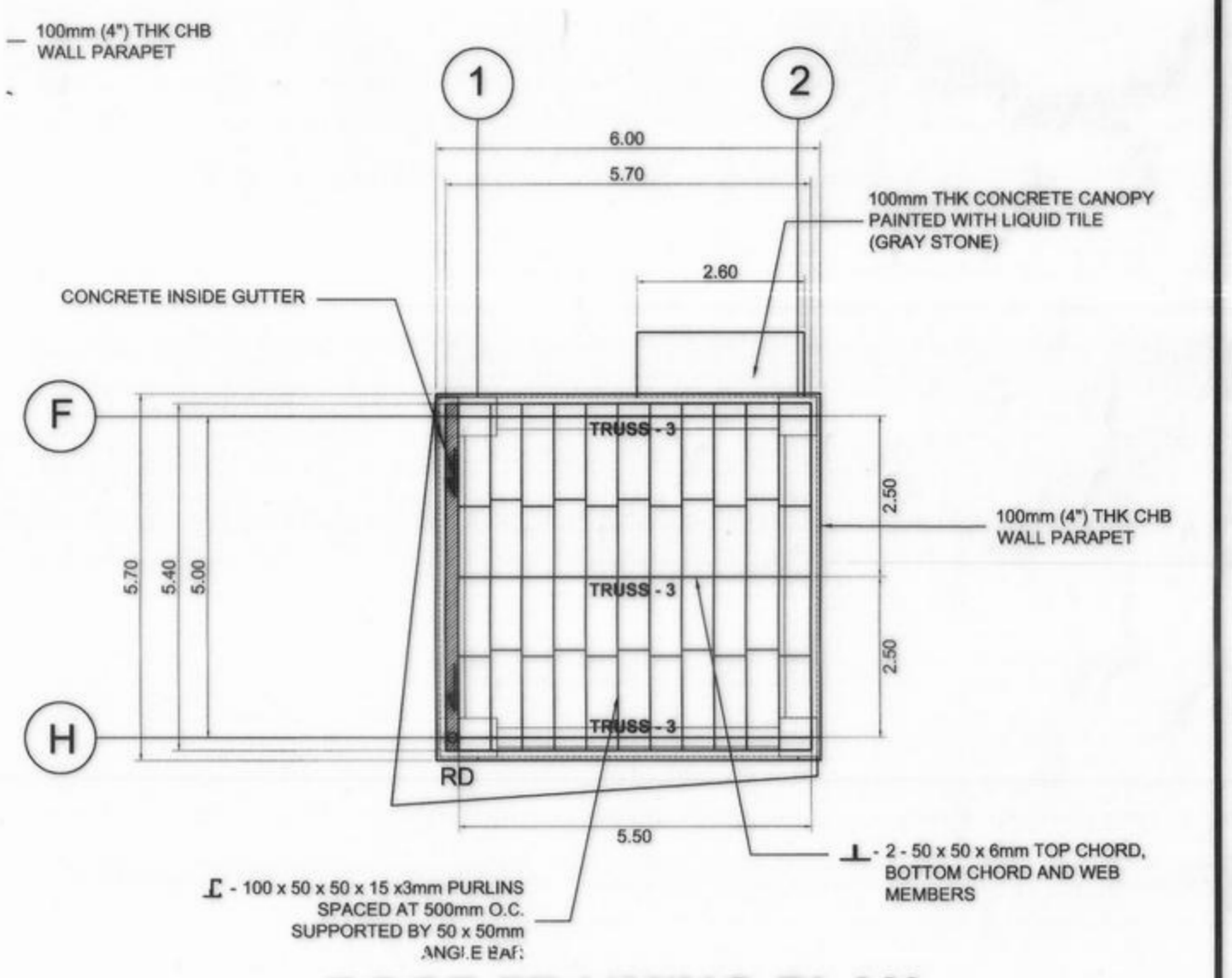
TRUSS - 3 DETAILS
SCALE 1:50 MM



ROOF FRAMING PLAN
SCALE 1:100 M

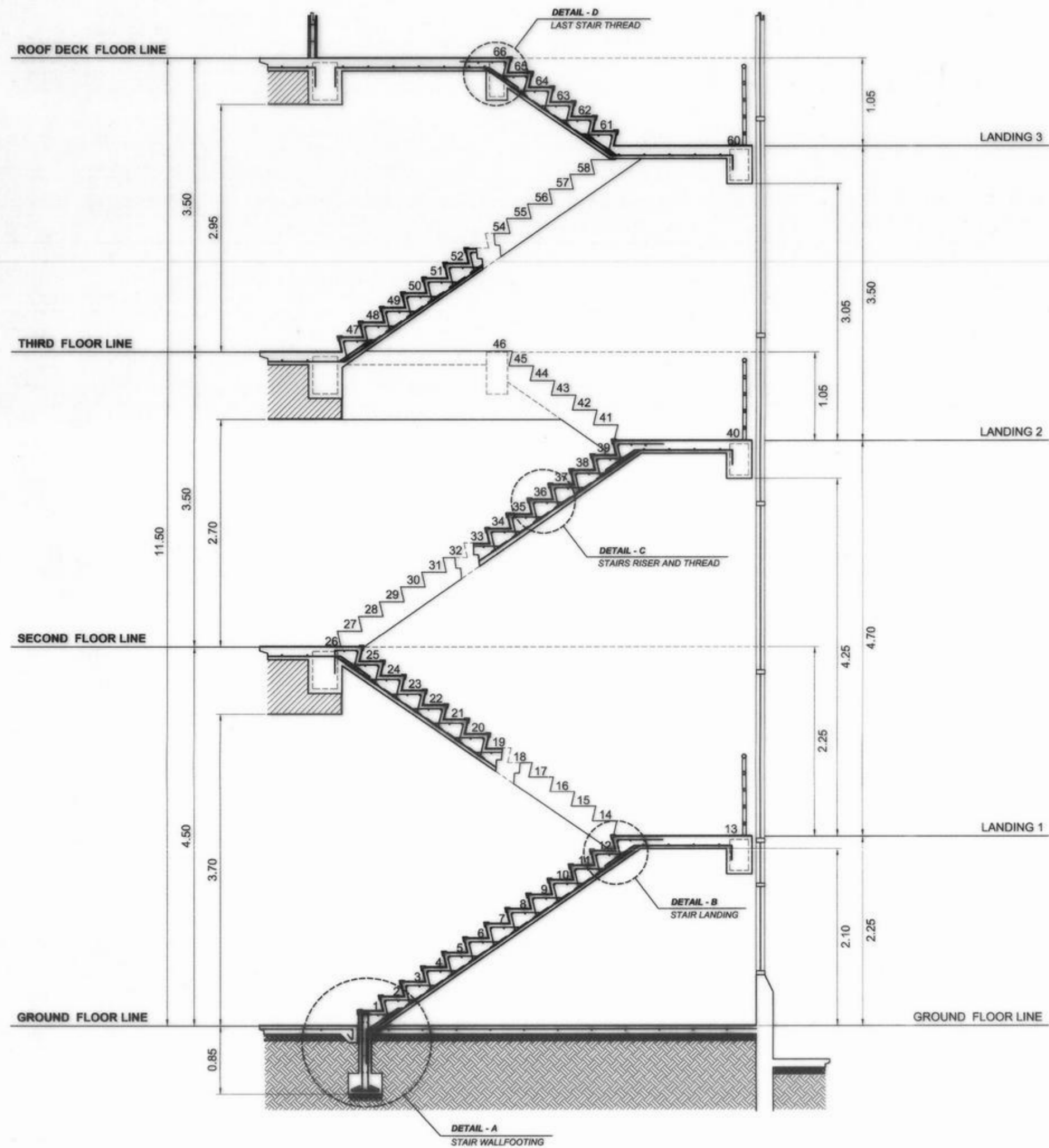


RAFTER - 1 DETAILS
SCALE 1:50 MM

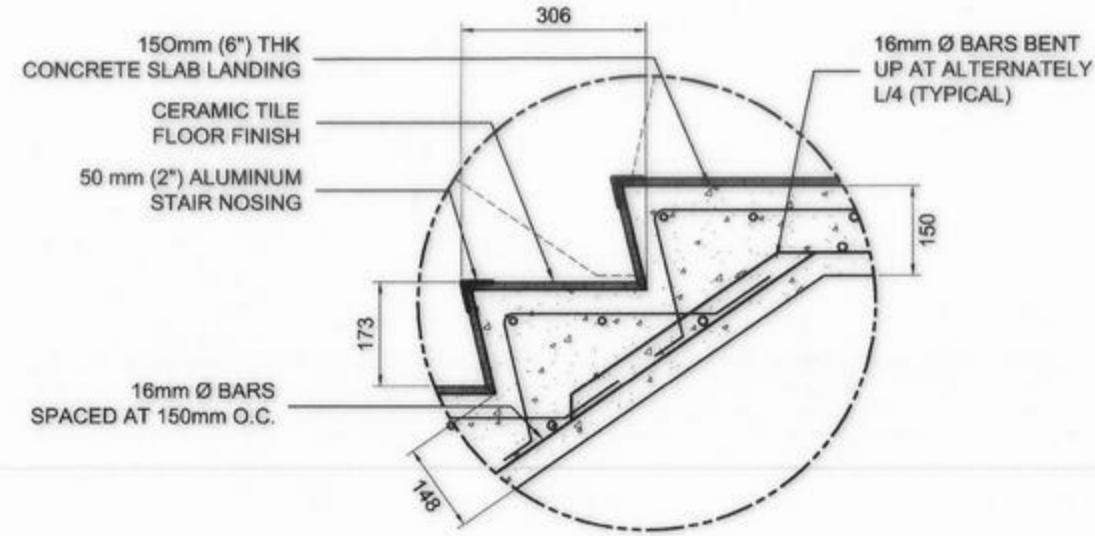


ROOF FRAMING PLAN
SCALE 1:100 M

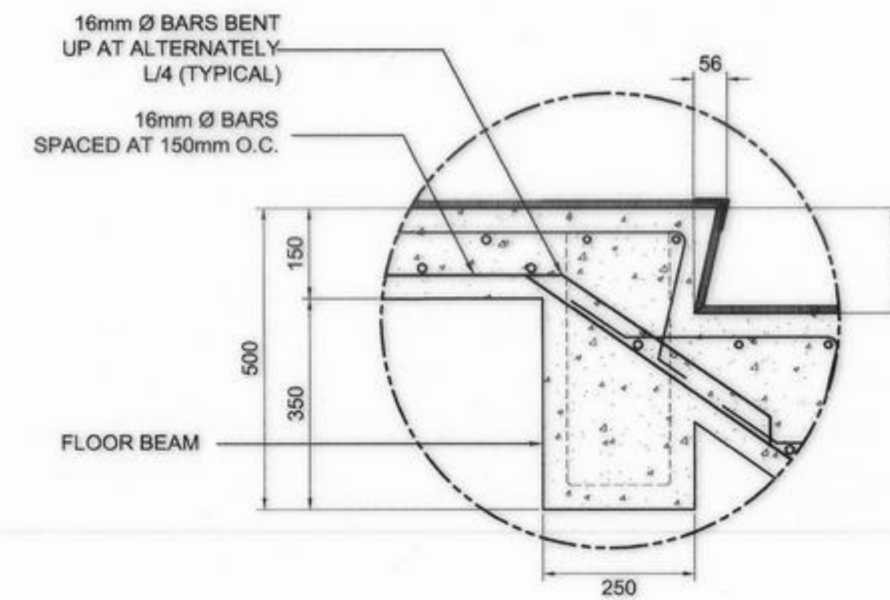
<p>REPUBLIC OF THE PHILIPPINES COMMISSION ON AUDIT REGIONAL OFFICE NO. IX CABATANGAN, ZAMBOANGA CITY</p>	RECOMMENDING APPROVAL :		APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON) :						
	<p>VISITACION Q. MENDOZA DIRECTOR IV - REGIONAL DIRECTOR</p>		<p>AMELIA P. VALDEZ DIRECTOR IV - GENERAL SERVICES OFFICE</p>						
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX VETERANS AVENUE EXT., TETUAN, ZAMBOANGA CITY</p>	PROJECT & LOCATION:	SHEET CONTENT:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.:
	<p>COA REGIONAL OFFICE NO. IX TRAINING CENTER AND DORMITORY BUILDING CABATANGAN, ZAMBOANGA CITY</p>	<p>ROOF FRAMING PLAN TRUSS DETAILS RAFTER DETAILS</p>	<p>JUDY ANN F. ALCEDO ENGINEERING ASSISTANT (REG. ARCHITECT)</p>	<p>PIO MARIO T. LACASTESANTOS CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION</p>	<p>SATURNINO C. TORREFRANCA DISTRICT ENGINEER OIC - CHIEF, PLANNING & DESIGN DIVISION</p>	<p>KHADAFFY D. RANGGOL ASSISTANT REGIONAL DIRECTOR</p>	<p>CAYAMOMBAO D. DIA, CESO IV REGIONAL DIRECTOR</p>		<p>S - 8 24 68</p>



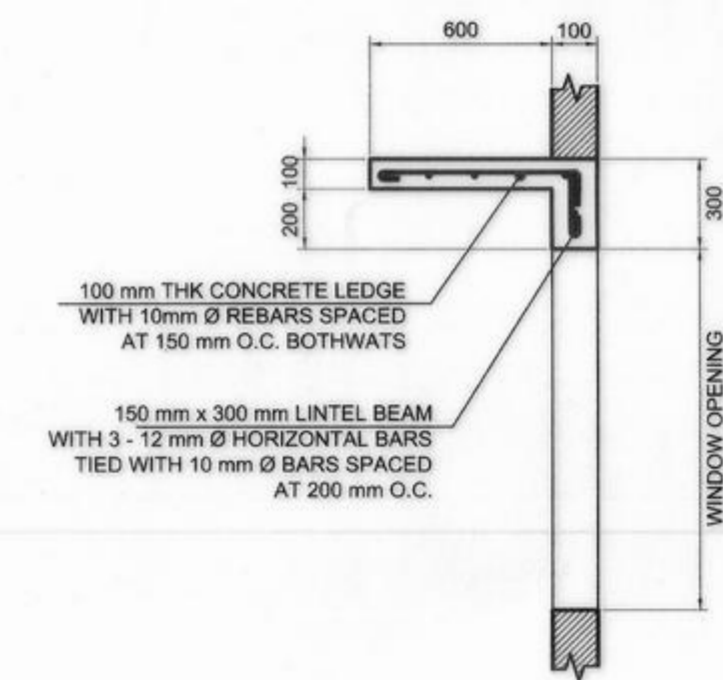
STAIRS STRUCTURAL DETAILS
SCALE 1: 50 MM



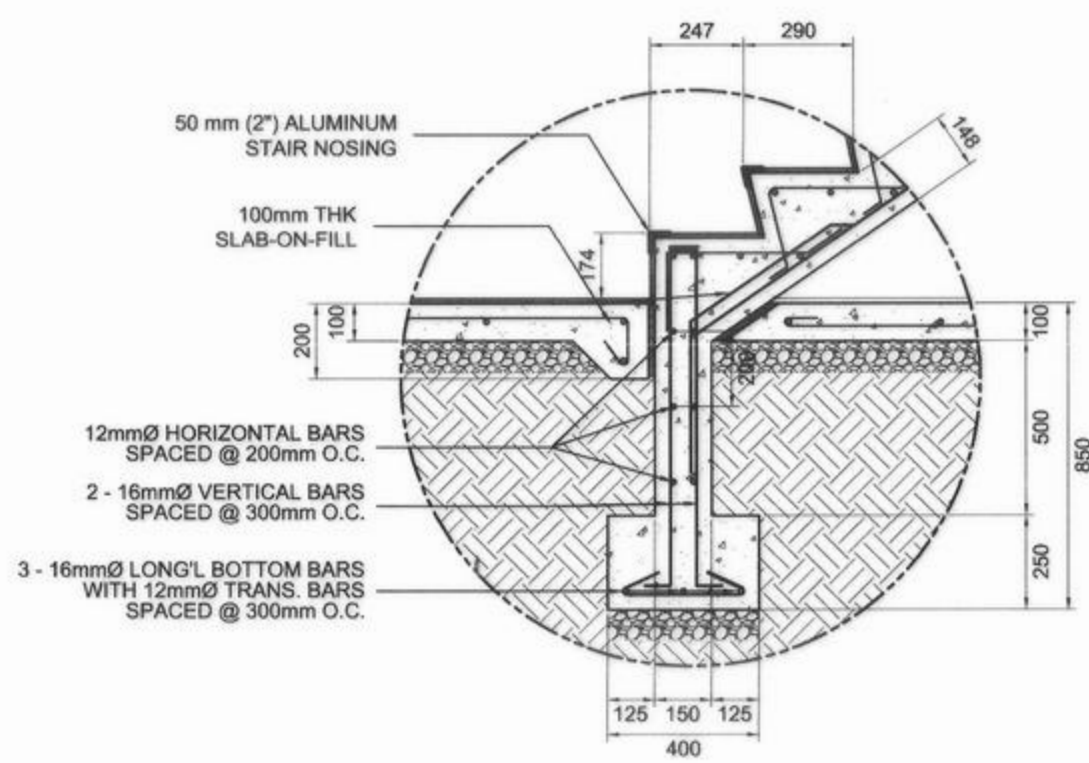
DETAIL - B
STAIR LANDING
SCALE 1:12.5MM



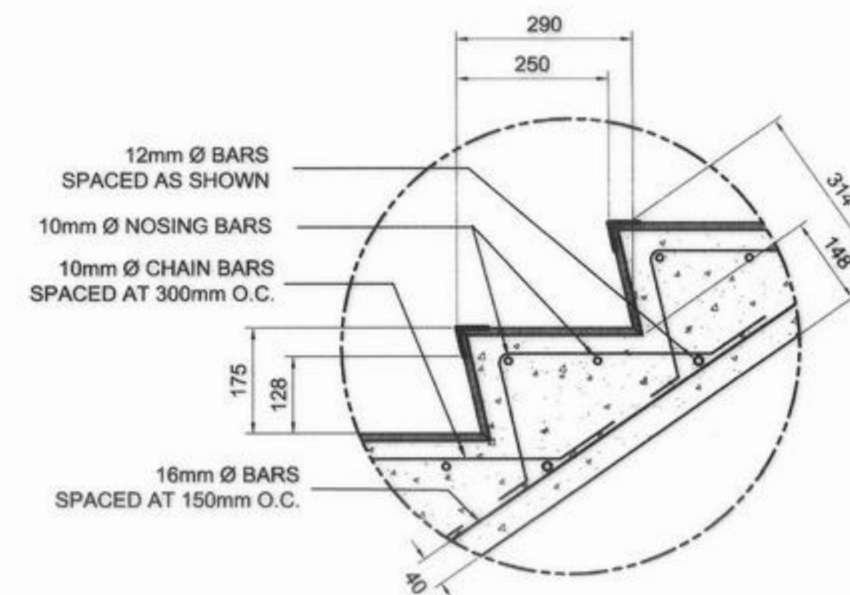
DETAIL - D
LAST STAIR THREAD
SCALE 1:12.5 MM



CANOPY DETAILS
SCALE 1:25 MM



DETAIL - A
STAIR WALL FOOTING
SCALE 1:20 MM



DETAIL - C
RISER AND THREAD
SCALE 1:12.5 MM

<p>REPUBLIC OF THE PHILIPPINES COMMISSION ON AUDIT REGIONAL OFFICE NO. IX CABATANGAN, ZAMBOANGA CITY</p>	RECOMMENDING APPROVAL :		APPROVED (BY THE AUTHORITY OF THE CHAIRPERSON):		<p>SET NO. </p> <p>SHEET NO.: </p>				
	<p>VISITACION Q. MENDOZA DIRECTOR IV - REGIONAL DIRECTOR</p>	<p>AMELIA P. VALDEZ DIRECTOR IV - GENERAL SERVICES OFFICE</p>	<p>LORNA D. CABOCHAN ASSISTANT COMMISSIONER - ADMINISTRATION SECTOR</p>	<p>PROJECT & LOCATION: COA REGIONAL OFFICE NO. IX TRAINING CENTER AND DORMITORY BUILDING CABATANGAN, ZAMBOANGA CITY</p>		<p>SHEET CONTENT: STAIRS STRUCTURAL DETAILS STAIRS SPOT DETAILS CANOPY DETAILS</p>	<p>DRAFTED: JUDY ANN F. ALCEDO ENGINEERING ASSISTANT (REG. ARCHITECT)</p> <p>PREPARED: JULMARI A. AHIAL ENGINEER II</p>	<p>REVIEWED: PIO MARIO T. LACASTESANTOS ENGINEER III CHIEF, BRIDGE & OTHER PUBLIC WORKS DESIGN SECTION</p>	<p>SUBMITTED: SATURNINO C. TORREFRANCA DISTRICT ENGINEER OIC - CHIEF, PLANNING & DESIGN DIVISION</p>