



Republic of the Philippines
Bangsamoro Autonomous Region in Muslim Mindanao
OFFICE OF THE CHIEF MINISTER



**CONSTRUCTION OF TWO (2)- STOREY
BARANGAY HALL BUILDING
IN
BANGSAMORO AUTONOMOUS REGION IN
MUSLIM MINDANAO**

PREPARED BY:

NORRODIN H. MANGATONG
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PROJECT DEVELOPMENT MANAGEMENT
DIVISION

CHECKED & REVIEWED BY:

ABIBAZAR W. SALI
PDO-V,
PROJECT DEVELOPMENT MANAGEMENT
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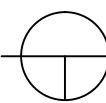
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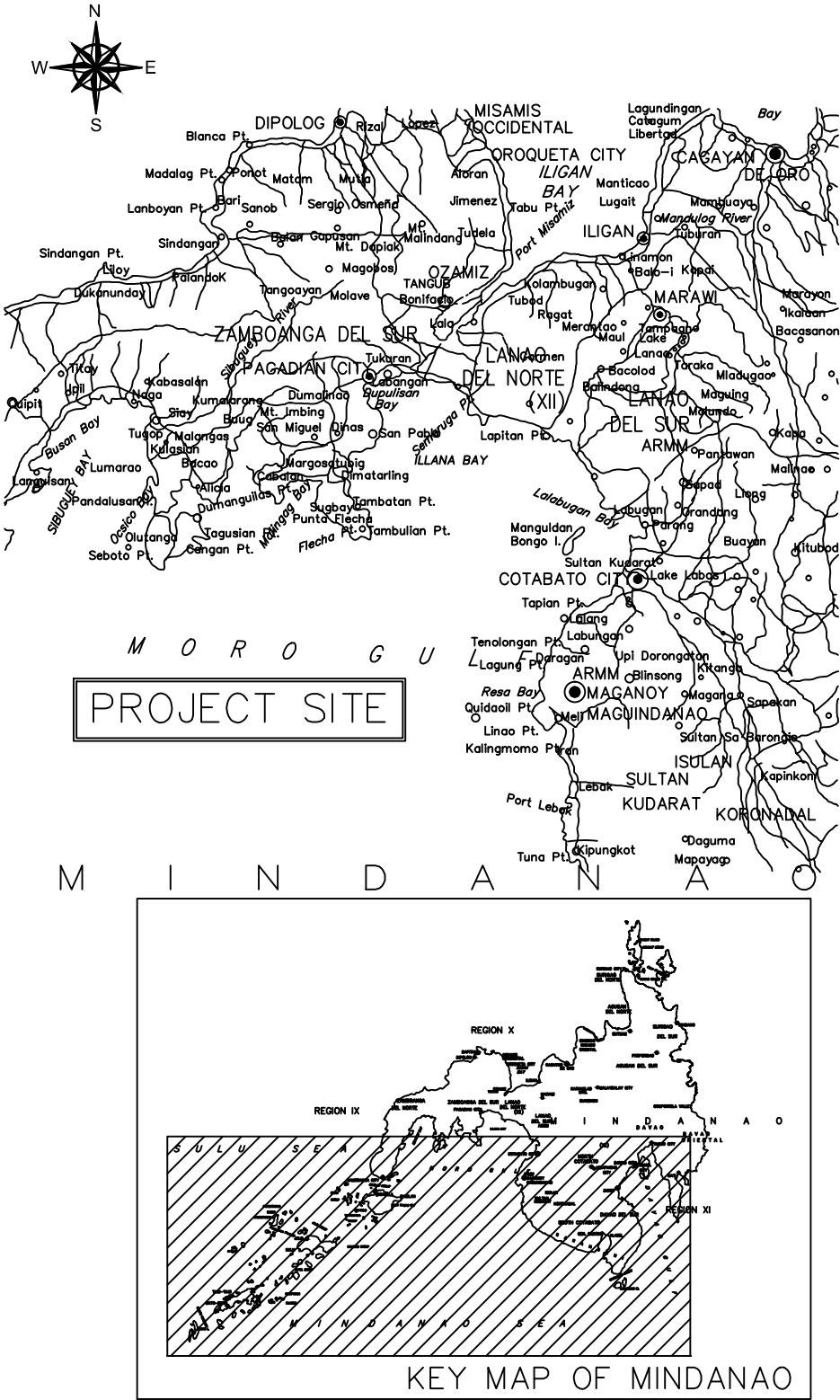
FAUSIAH R. ABDULA
DIRECTOR II,
OPERATION MANAGEMENT
SERVICE

APPROVED BY:

ATTY. NAGUIB G. SINARIMBO
MINISTER,
MINISTRY OF INTERIOR AND LOCAL GOVERNMENT
BARMM



 **PERSPECTIVE VIEW**
NOT DRAWN TO SCALE



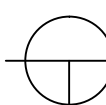
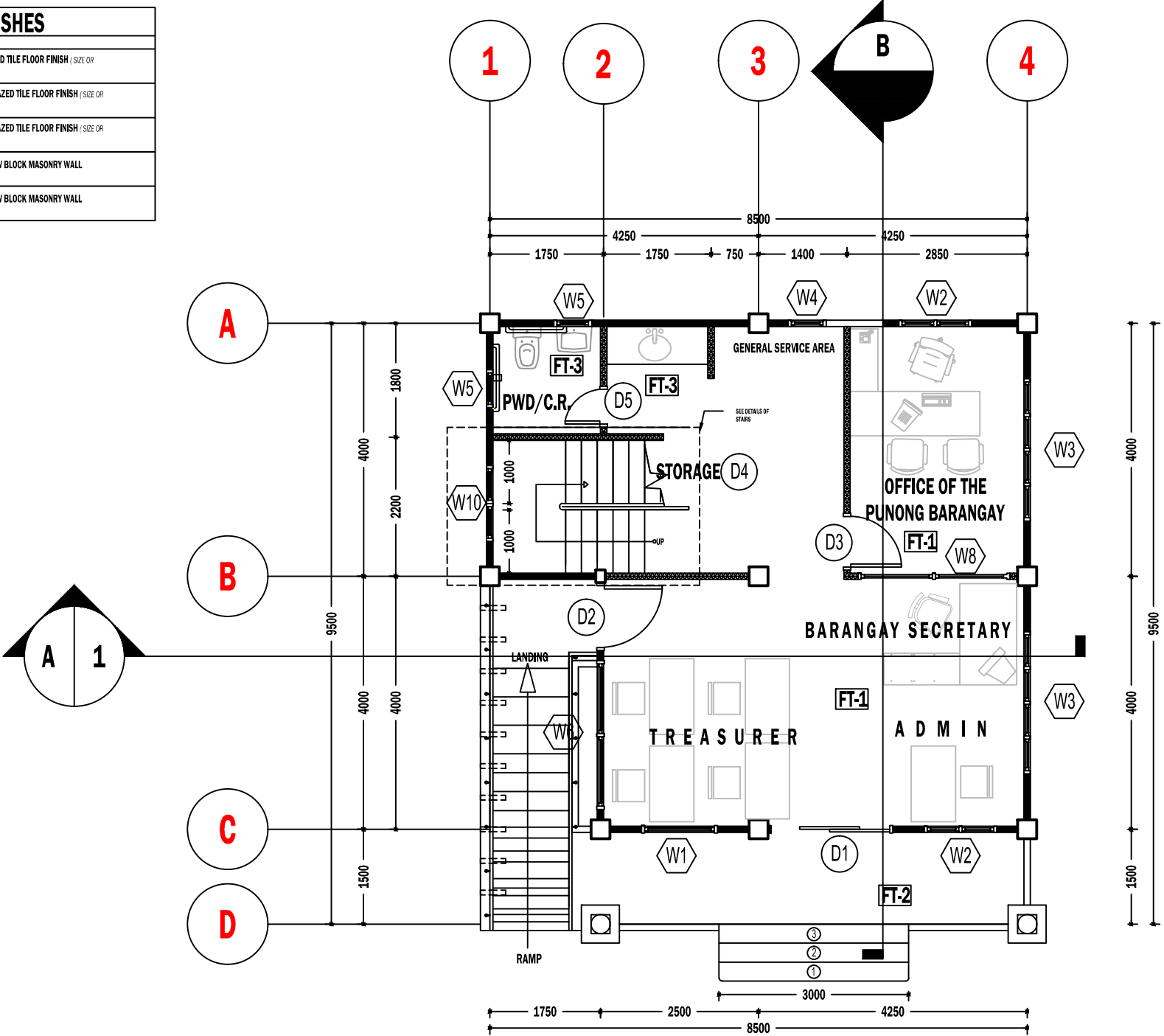
 **LOCATION MAP**
NOT DRAWN TO SCALE

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SCHEDULE OF FINISHES	
FLOOR FINISH	DESCRIPTION:
FT-1	400mmx400mm VITRIFIED GLAZED TILE FLOOR FINISH (SIZE OR COLOR FOR APPROVAL BY THE END-USER)
FT-2	400mmx400mm VITRIFIED UNGLAZED TILE FLOOR FINISH (SIZE OR COLOR FOR APPROVAL BY THE END-USER)
FT-3	250mmx250mm VITRIFIED UNGLAZED TILE FLOOR FINISH (SIZE OR COLOR FOR APPROVAL BY THE END-USER)
	100mm THICK CONCRETE HOLLOW BLOCK MASONRY WALL (PLAIN SMOOTH FINISH - INTERIOR WALL)
	150mm THICK CONCRETE HOLLOW BLOCK MASONRY WALL (PLAIN SMOOTH FINISH - EXTERIOR WALL)



GROUND FLOOR PLAN
SCALE 1:50



PROJECT TITLE:
**CONSTRUCTION OF
BARANGAY HALL BUILDING**

LOCATION:
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

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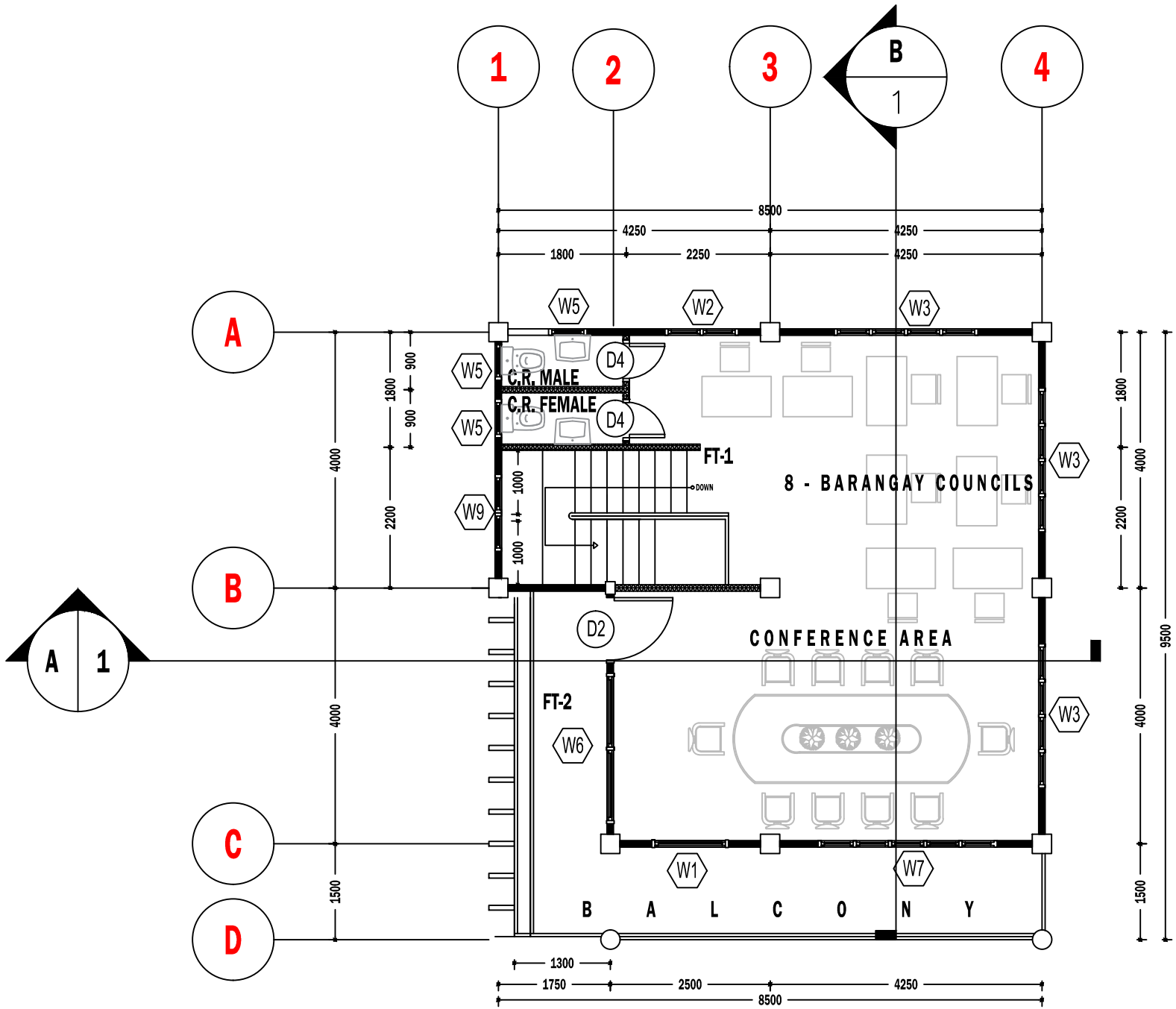
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SHEET CONTENT :
GROUND FLOOR PLAN

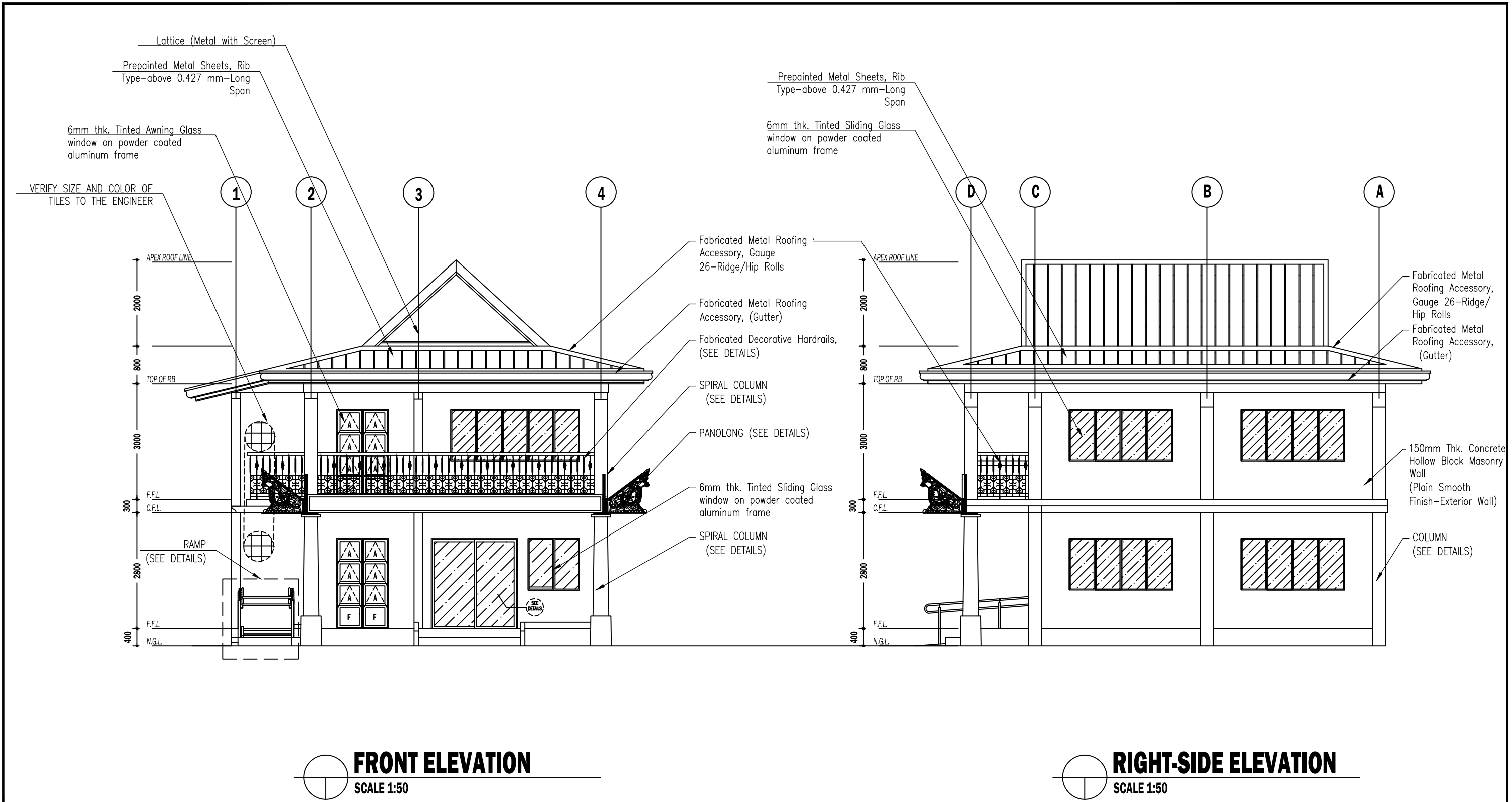
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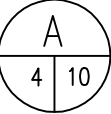
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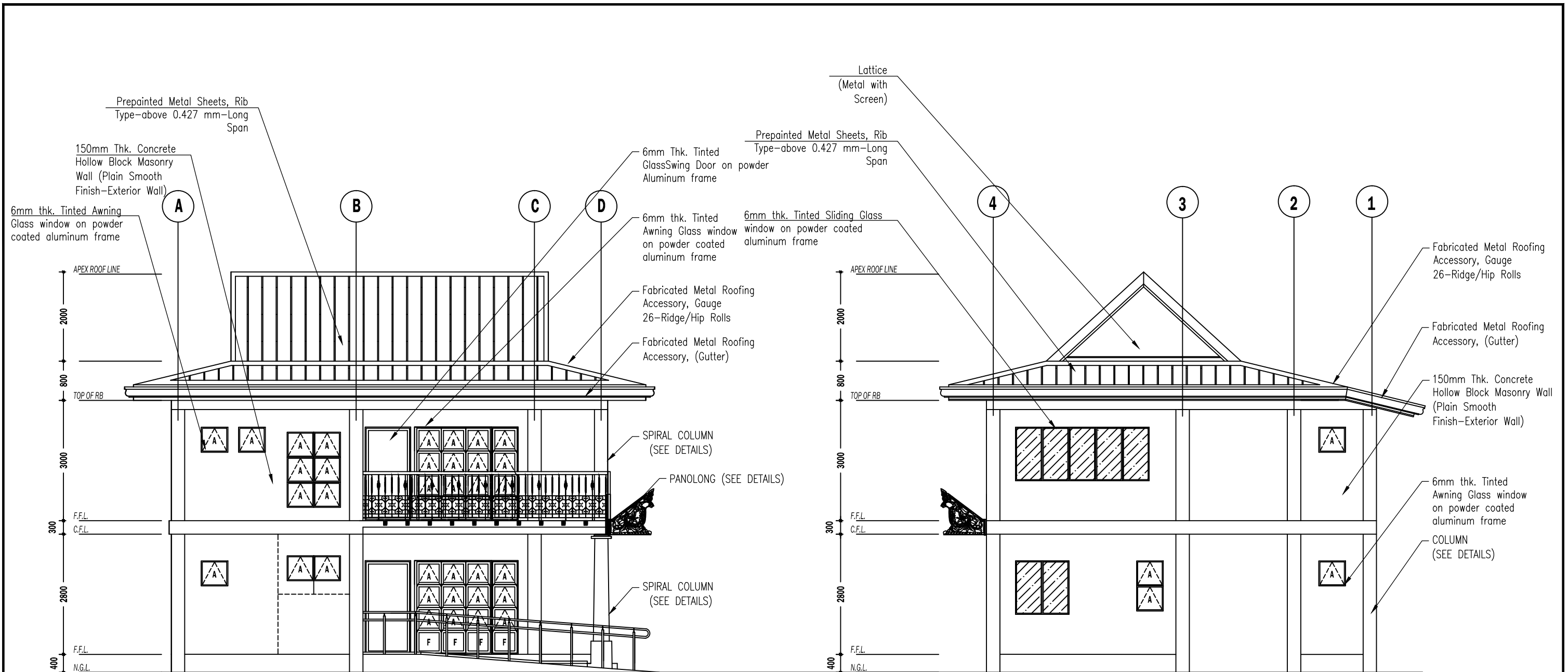


SECOND FLOOR PLAN
SCALE 1:50

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		CONSTRUCTION OF BARANGAY HALL BUILDING			SEE COVER SHEET	SEE COVER SHEET	SECOND FLOOR PLAN	A 3 10
		LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO	NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT		



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		CONSTRUCTION OF BARANGAY HALL BUILDING			SEE COVER SHEET	SEE COVER SHEET	FRONT ELEVATION RIGHT-SIDE ELEVATION	
		LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO	NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT		



LEFT-SIDE ELEVATION
SCALE 1:50

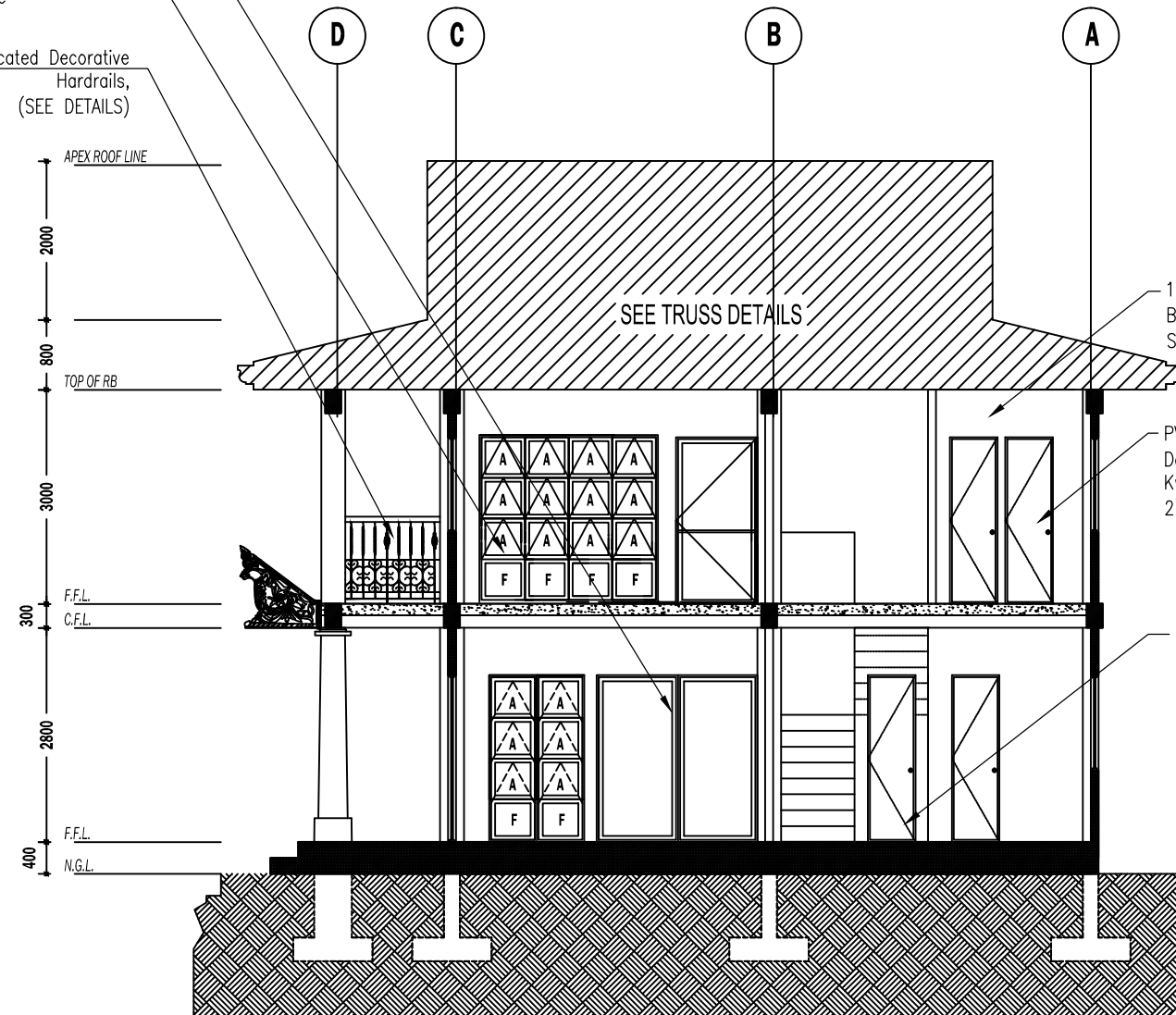
REAR ELEVATION
SCALE 1:50

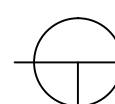
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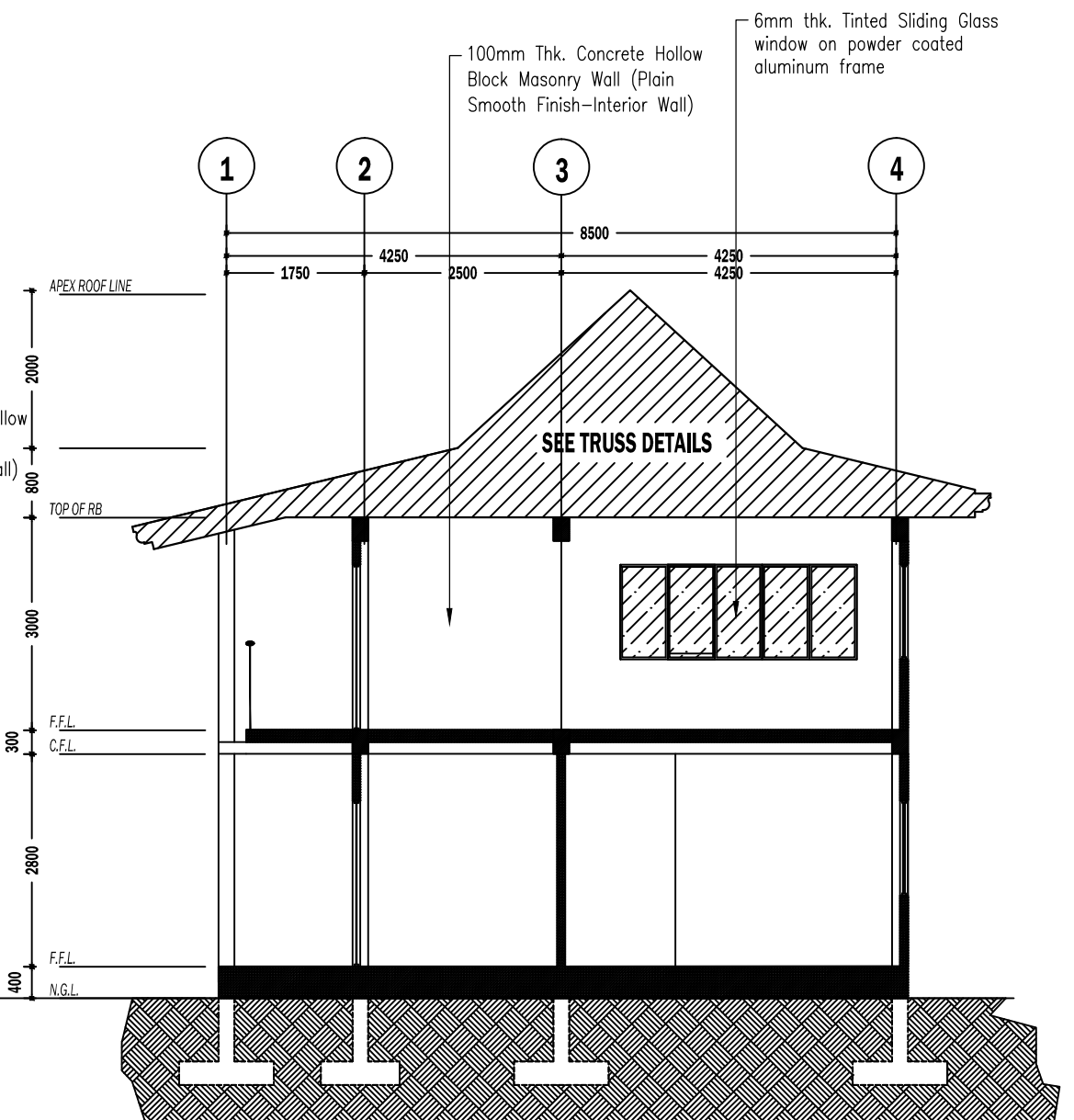
6mm Thk. Tinted Glass Double
Swing Door on powder
Aluminum frame

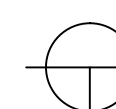
6mm thk. Tinted Awning Glass
window on powder coated
aluminum frame

Fabricated Decorative
Hardrails,
(SEE DETAILS)



 **LONGITUDINAL SECTION THRU - BB**
SCALE 1:50



 **CROSS SECTION THRU - AA**
SCALE 1:50



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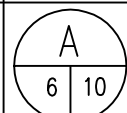
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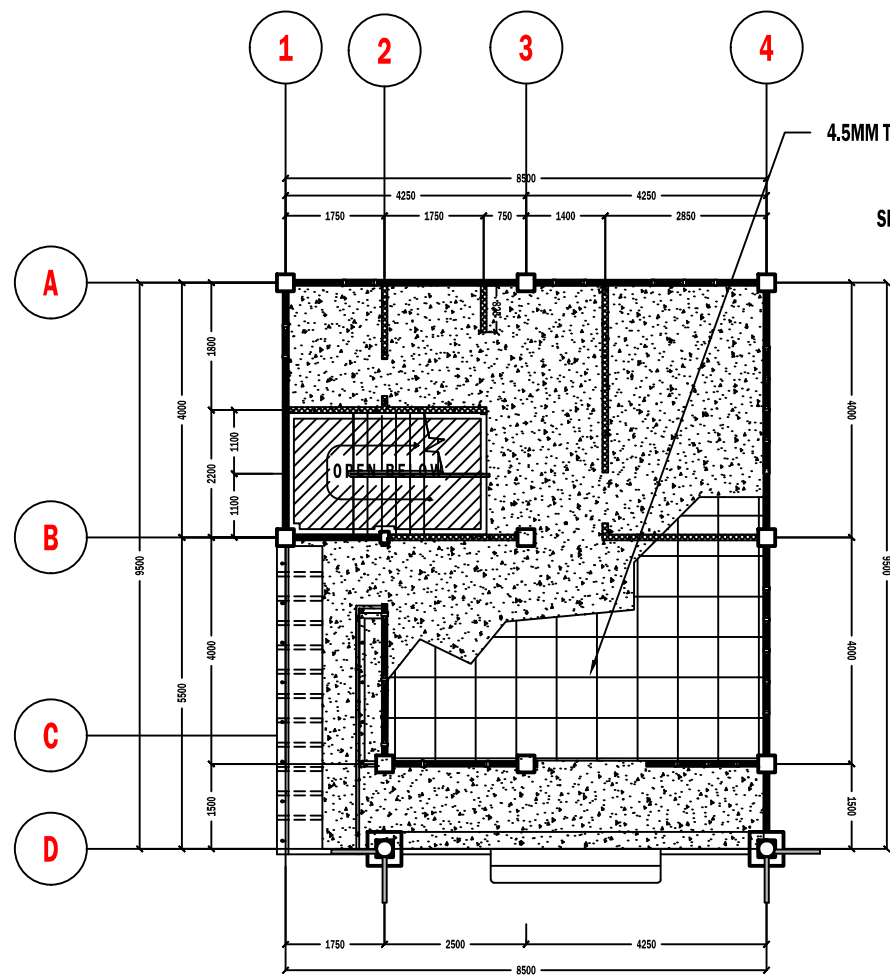
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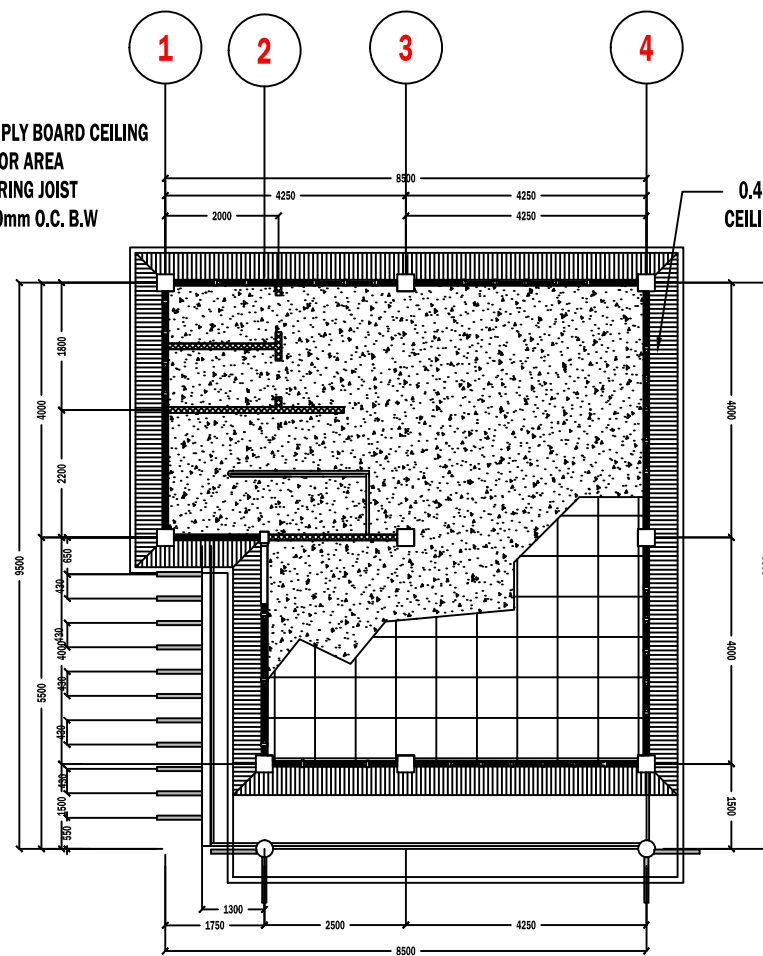
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SHEET CONTENT :
**LONGITUDINAL SECTION
CROSS SECTION**

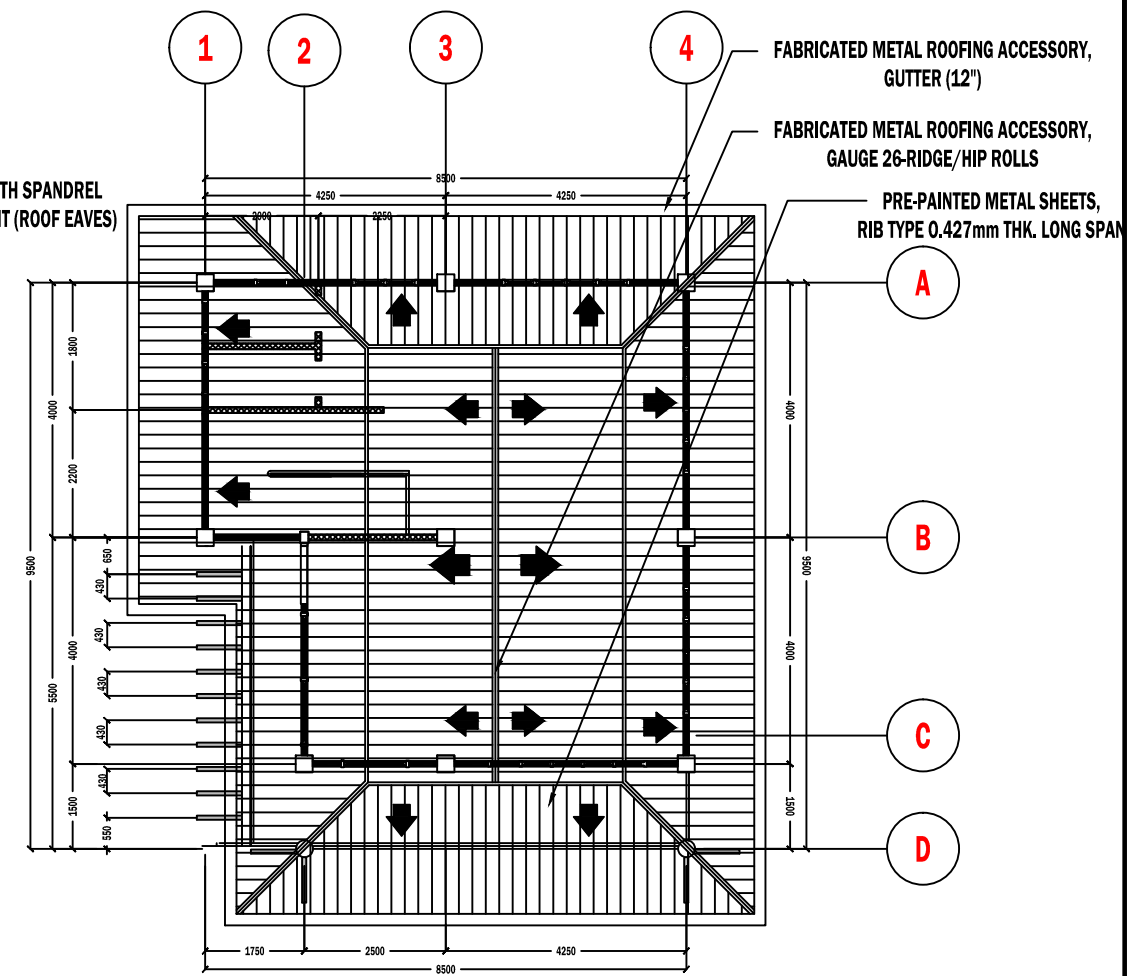
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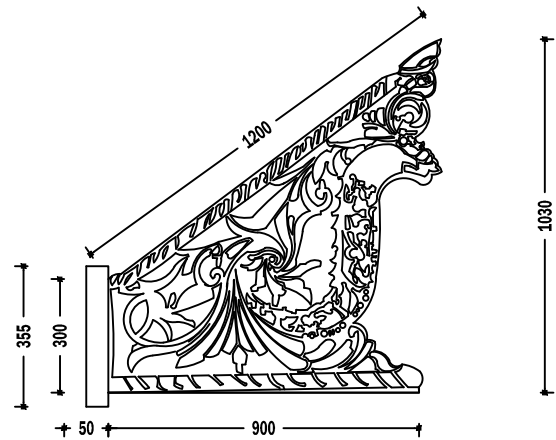
GROUND FLOOR PLAN
REFLECTED CEILING PLAN
SCALE 1:75



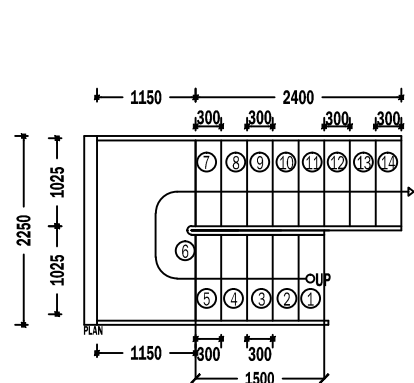
SECOND FLOOR PLAN
REFLECTED CEILING PLAN
SCALE 1:75



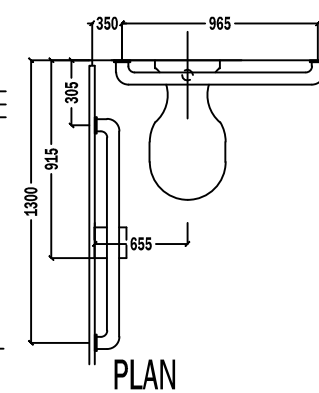
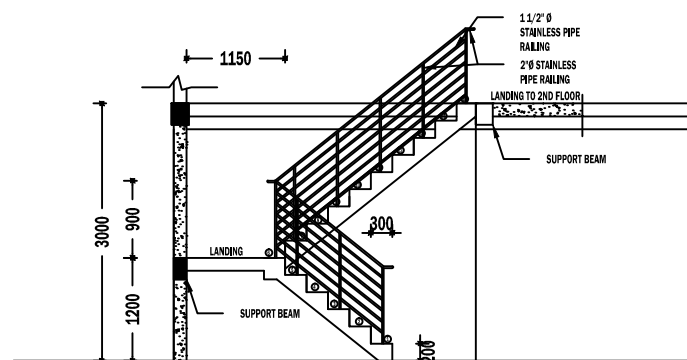
ROOF PLAN
SCALE 1:75



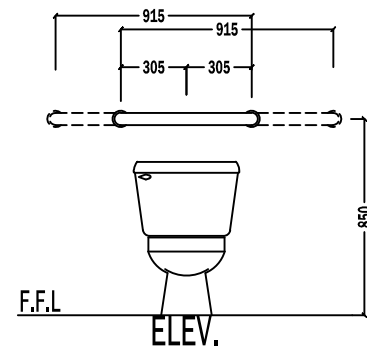
PANOLONG DETAILS
NOT TO SCALE



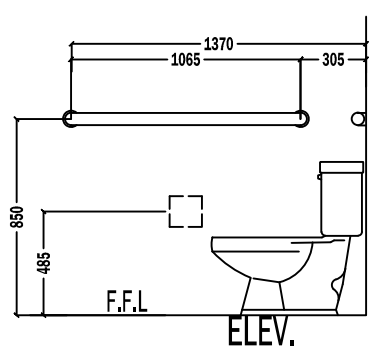
STAIRS ELEVATION
SCALE 1:50



PLAN



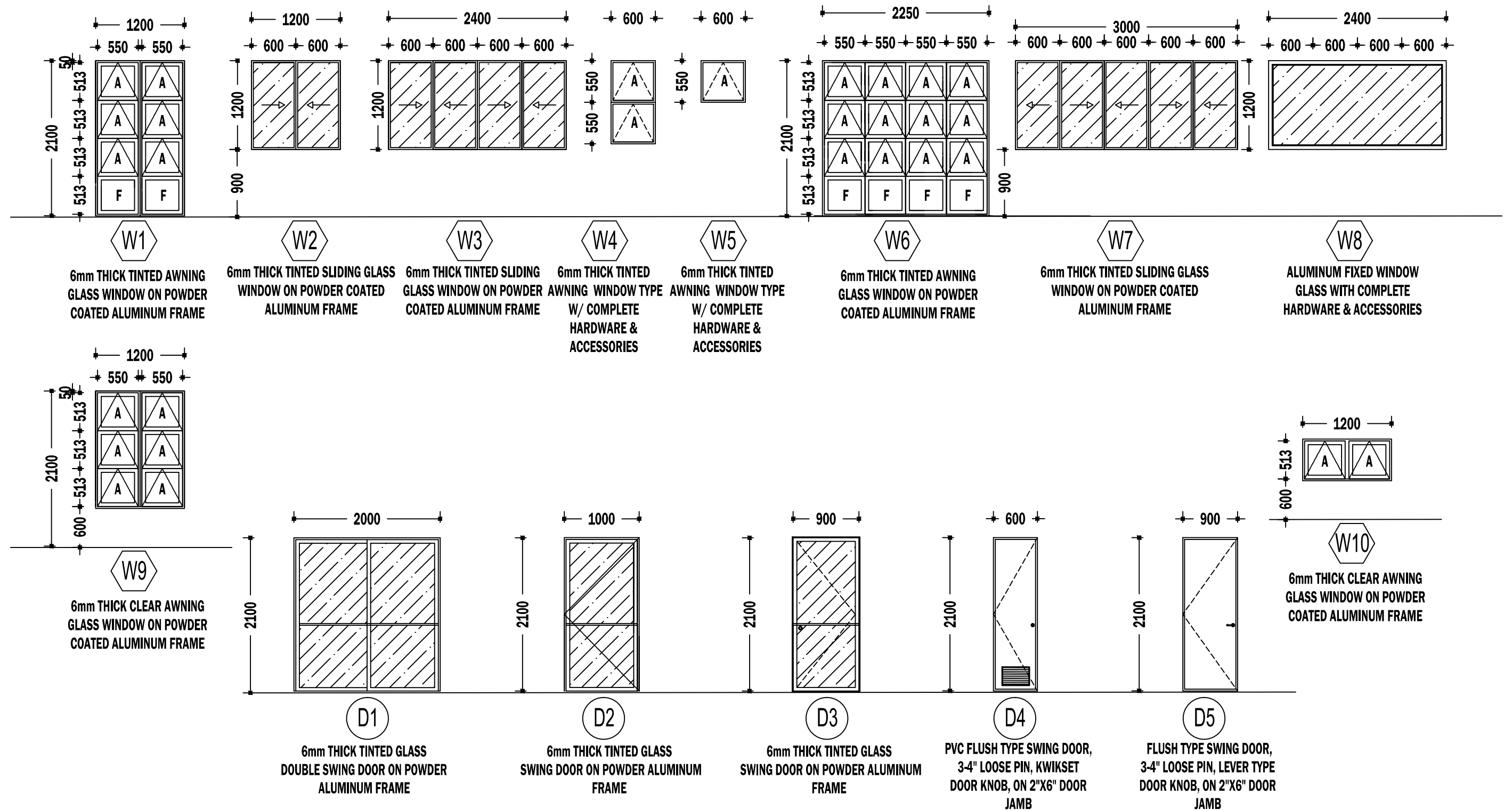
F.F.L.
ELEV.



F.F.L.
ELEV.

PWD'S COMFORT ROOM DETAIL
SCALE 1:50

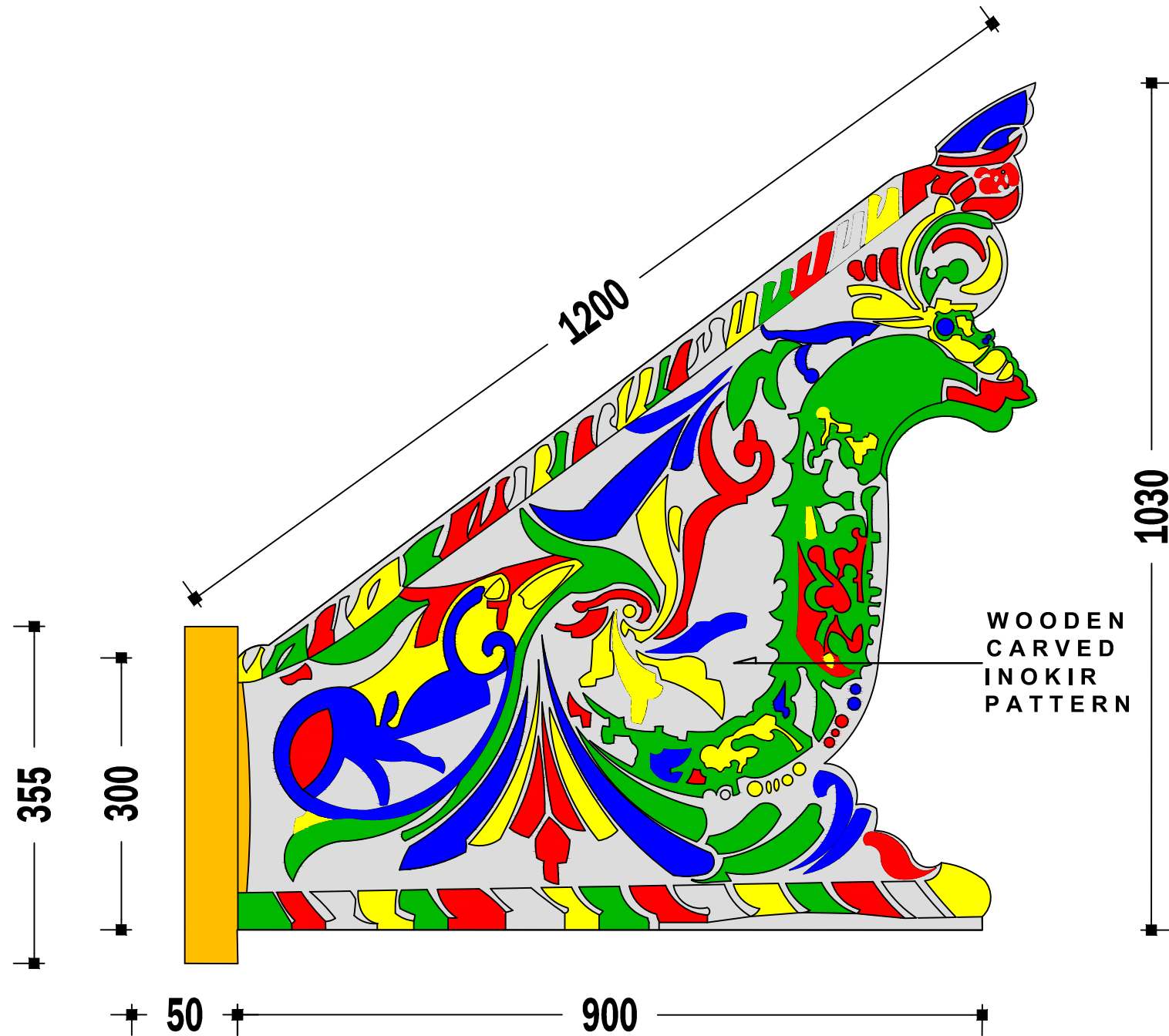
		PROJECT TITLE: CONSTRUCTION OF BARANGAY HALL BUILDING LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO	PREPARED BY: NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	CHECKED BY: ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	RECOMMEND APPROVAL: SEE COVER SHEET FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	APPROVED BY: SEE COVER SHEET ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT	SHEET CONTENT : REFLECTED CEILING PLAN ROOF PLAN STAIR ELEVATION PANOLONG DETAILS PWD'S COMFORT ROOM DETAIL	SHEET NO.: A 7 10
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SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50

		PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMEND APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO.:
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OKIR (PANOLONG) DETAILS

SCALE 1:5

LEGEND:

- | | | |
|-----|---------------------------------------|---|
| O-1 | GREENWOODVARNISH
ONBLEACHEDWOOD |  |
| O-2 | REDWOODVARNISH
ONBLEACHEDWOOD |  |
| O-3 | BLUEWOODVARNISH
ONBLEACHEDWOOD |  |
| O-4 | YELLOWWOODVARNISH
ONBLEACHEDWOOD |  |
| O-5 | LIGHTOAKWOODVARNISH
ONBLEACHEDWOOD |  |
| O-6 | NATURALWOODVARNISH
ONBLEACHEDWOOD |  |

OKIR FINISHING METHODOLOGY

- 1.BLEACHING OF WOOD (WOOD BLEACH A&B CLEAR).
- 2.SPRAY NC SEALER (2COATS - SAND IN BETWEEN COATS).
- 3.APPLY SADOLIN COLOR STAIN BY RAG OR BRUSH (O1 - O6) - 1 COAT EACH.
- 4.SPRAY NC SEALER - SAND TO SMOOTHEN (1 COAT).
- 5.IF NEEDED, RE-APPLY SADOLIN COLOR STAIN (O1-O6) BY RAGS OR BRUSH TO MEET THE DESIRED COLOR (VERIFY TO SADOLIN COLOR WOOD SAMPLE).
- 6.SPRAY NC SEALER - SAND TO SMOOTHEN (1 COAT).
- 7.SPRAY FINAL TOP COAST, (10 SHEEN LACQUER) - 2 COATS, SAND IN BETWEEN COATS).

NOTE: USE SANDOLIN WOODSTAIN FINISH AS PER ASSIGNED COLOR SPECIFICATIONS

NOTE: VERIFY ARCHITECT ON NUMBER OF OKIR SET



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RECOMMEND APPROVAL:

SEE COVER SHEET

FAUSIAH R. ABDULA
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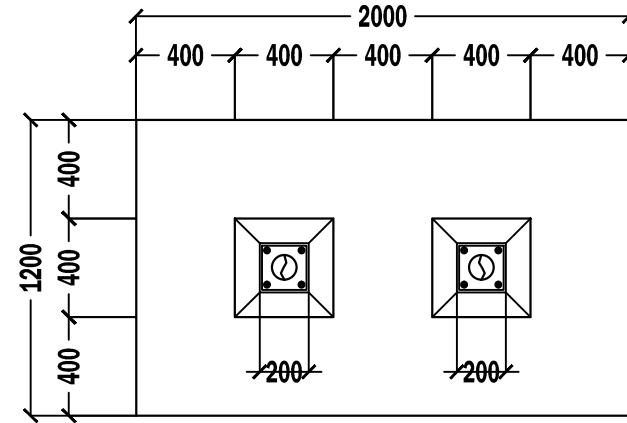
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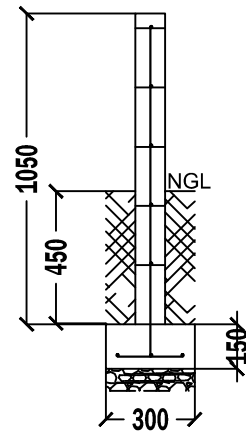
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OKIR FINISHING METHODOLOGY

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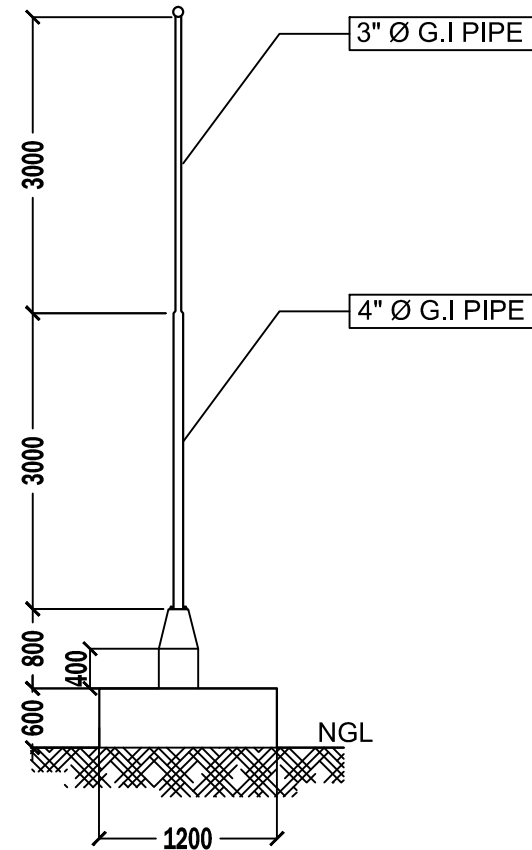
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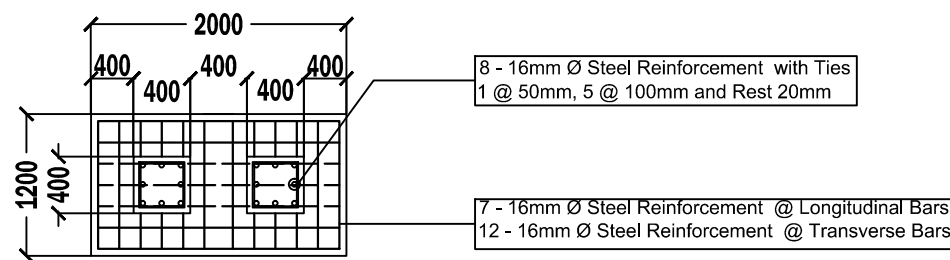
PLAN VIEW
1:20m



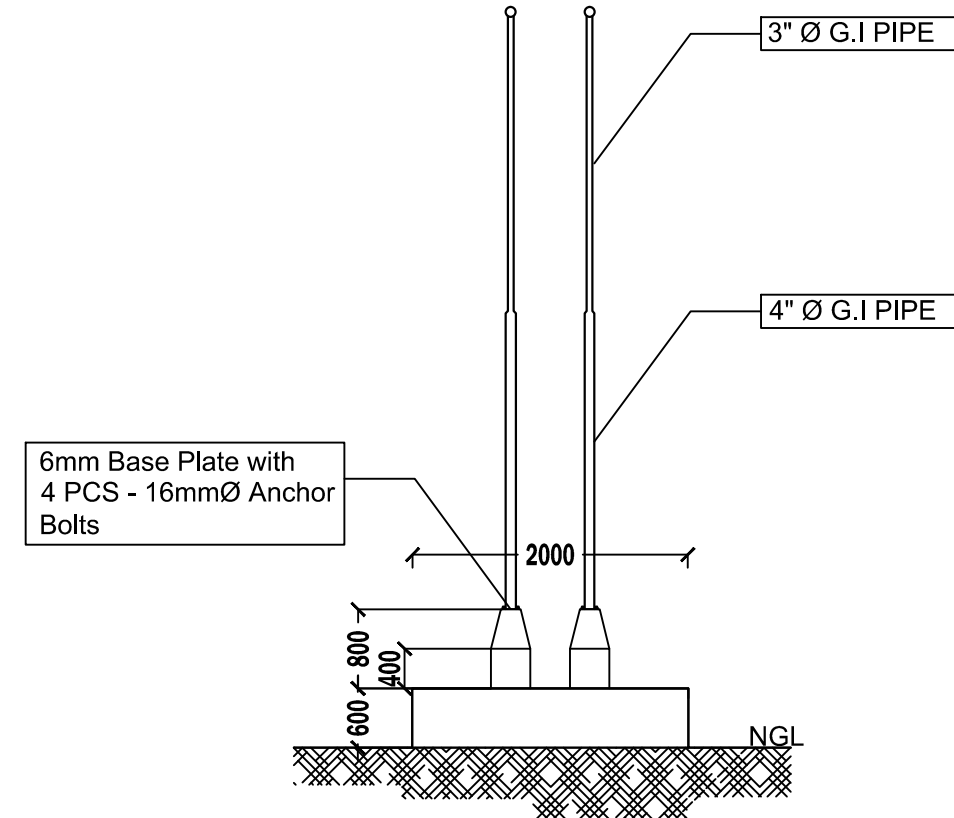
FOUNDATION PLAN
(WALL FOOTING)
1:20m



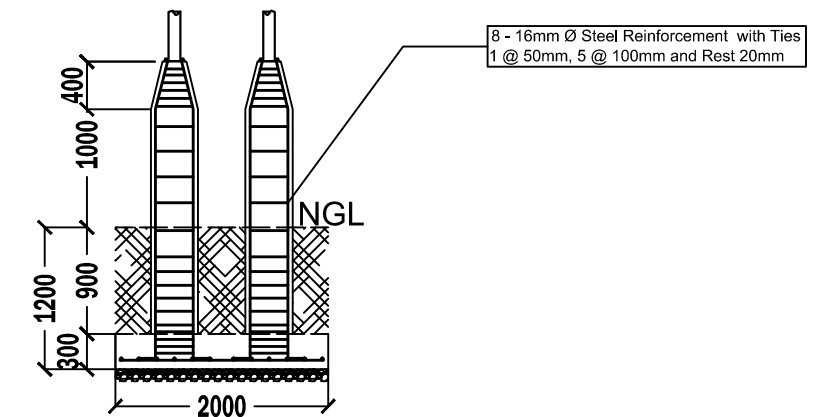
SIDE VIEW
1:50m



FOUNDATION PLAN
(SPREAD FOOTING)
1:50m



FRONT VIEW
1:50m



PEDESTAL TYPICAL SECTION
1:20m



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SHEET CONTENT :
FLAG POLE DETAILS

SHEET NO.:
A
10 | 10

CONSTRUCTION NOTES

A. GENERAL

1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN, CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENT

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BULDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318-77).
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS :

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS & SLAB ON GRADE EXCEPT FOUND.	3000 PSI(21.00 MPa)	1 IN. (25MM.)	4 IN. (100MM.)
FOUNDATION	3000 PSI(21.00 MPa)	3/4 IN. (19MM.)	4 IN. (100MM.)
COLUMN	3000 PSI(21.00 MPa)	3/4 IN. (19MM.)	4 IN. (100MM.)
SUSPENDED SLABS/ 4000 PSI(28.00 MPa) BEAMS		3/4 IN. (19MM.)	4 IN. (100MM.)

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33 FOR DIA. 10 AND SMALLER BARS AND GRADE 40 FOR DIA. 12 AND LARGER BARS.

4. IN GENERAL, THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO, UNLESS OTHERWISE SHOWN OR NOTED.

5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

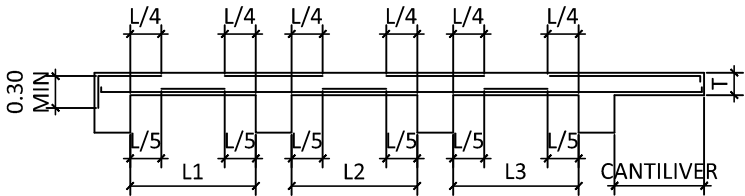
BEAMS & COLUMNS	(40 MM.)
FOOTINGS	(76 MM.)
SUSPENDED SLABS	(20 MM.)
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	(50 MM.)
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	3 IN. (75 MM.)

C. CAMBER REQUIREMENTS

1. UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS CAMBER ALL RC BEAMS AT LEAST 10mm. FOR EVERY 4000mm. OF CLEAR SPAN EXCEPT CANTILEVERS WHICH SHALL BE 50mm. FOR EVERY 3000mm. OF CLEAR SPAN.
2. UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL R.C. 8mm PER 3000mm. OF SHORTER SPAN AND 14mm. FOR EVERY 2000mm. OF SLABS CANTILEVER SPAN

D. CONCRETE SLAB

1. ALL REINFORCEMENT SHALL BE 0.019 CLEAR MINIMUM FROM TOP AND BOTTOM OF SLAB.
2. FOR TWO - WAY SLAB ALONG THE LONGER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONGER SPAN AT CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORT UNLESS OTHERWISE INDICATED OR SHOWN IN DETAILS THE SPACING OF THE BARS AT THE COLUMN STRIPS CAN BE APPROXIMATELY 1 1/3 OF THE MIDDLE STRIP IN NO CASE GREATER THAN 2 1/3 TIMES THE SLAB THICKNESS.
3. UNLESS OTHERWISE DETAILED IN CONDITIONING SLAB HAVING SAME REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING SHALL BE BEND, EXTENDED OR CUT AS FOLLOWS.



E. FOUNDATION

1. FOUNDATION IS DESIGNED USING AN ASSUMED SOIL BEARING CAPACITY OF 190 KPa (3,968 psf).
2. FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.
6. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS, AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

10. STRIPPING OF FORMS AND SHORES:

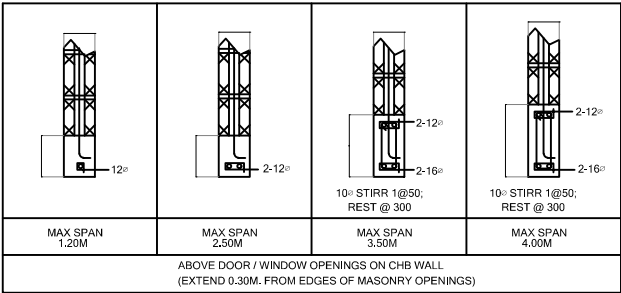
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	18 HRS.
BEAMS	14 DAYS

TABLE OF LAP SPLICE & ANCH. LENGTH

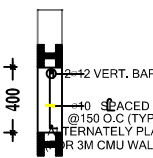
BAR DIA. (mm.)	ANCH. LENGTH (mm.)	STANDARD HOOK (mm.)			LAP SPLICE (m)				UNIT WEIGHT (Kg/m)	MIN. LAP SPLICE LENGTH OF COL. REINF. INDIVIDUAL BARS	
					TENSION BAR		COMP. BAR				
		90 DEG	180 DEG	135 DEG	TOP BAR	BOT BAR	TOP BAR	BOT BAR		W/ TIES	W/ SPIRAL
10	0.60	0.15	0.13	0.10	0.42	0.30	0.42	0.30	0.617	0.30	0.30
12	0.60	0.20	0.15	0.12	0.42	0.30	0.42	0.30	0.889	0.30	0.30
16	0.60	0.25	0.18	0.14	0.73	0.52	0.87	0.62	1.580	0.52	0.47
20	0.60	0.30	0.20	0.20	0.91	0.65	1.10	0.78	2.469	0.65	0.58
25	0.68	0.40	0.28	0.26	0.15	0.82	1.40	1.00	3.858	0.80	0.73
28	0.86	0.48	0.38		0.45	1.03	1.53	1.09	4.840	0.90	0.82
32	1.12	0.56	0.43		1.90	1.35	1.74	1.24	6.327	1.03	0.93
36	1.43	0.61	0.48		2.40	1.70	2.00	1.40	8.000	1.20	1.05

NOTES:

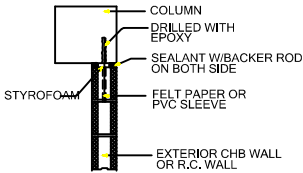
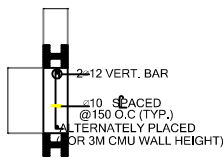
1. ACI SECTION 12.4 STATES THAT DEVELOPMENT LENGTH OF INDIVIDUAL BARS W/IN A BUNDLE, IN TENSION OR COMPRESSION, SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20% FOR THREE BAR BUNDLE, AND 33% FOR FOUR-BAR BUNDLE.
2. FOR COLUMNS, AT ANY LEVEL NO MORE THAN ALTERNATE BARS SHOULD BE SPLICED. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED W/IN THE REQUIRED LAP LENGTH. MINIMUM DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600MM.
3. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINF.
4. AS MUCH AS POSSIBLE, SPLICES SUBJECTED TENSIL STRESSES ARE DISCOURAGE. THESE SHOULD BE AVOIDED OR PROVIDED W/ STANDARD HOOKS.



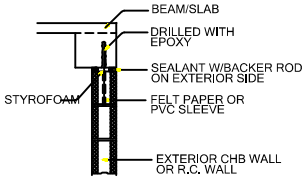
LINTEL BEAM SCHEDULE



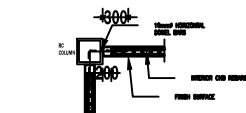
TYP. CHB STIFFENER BEAM
DETAIL



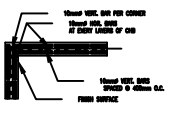
EXTERIOR WALL REINF.
AT COLUMN/WALL (PLAN)



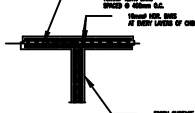
EXTERIOR WALL SUPPORT AT BOT.
OF BEAM OR SLAB SOFFIT (SECTION)



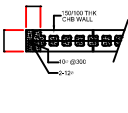
CHB EXTERIOR WALL SIDE
ANCHORAGE DETAIL



CORNER WALL DETAILS



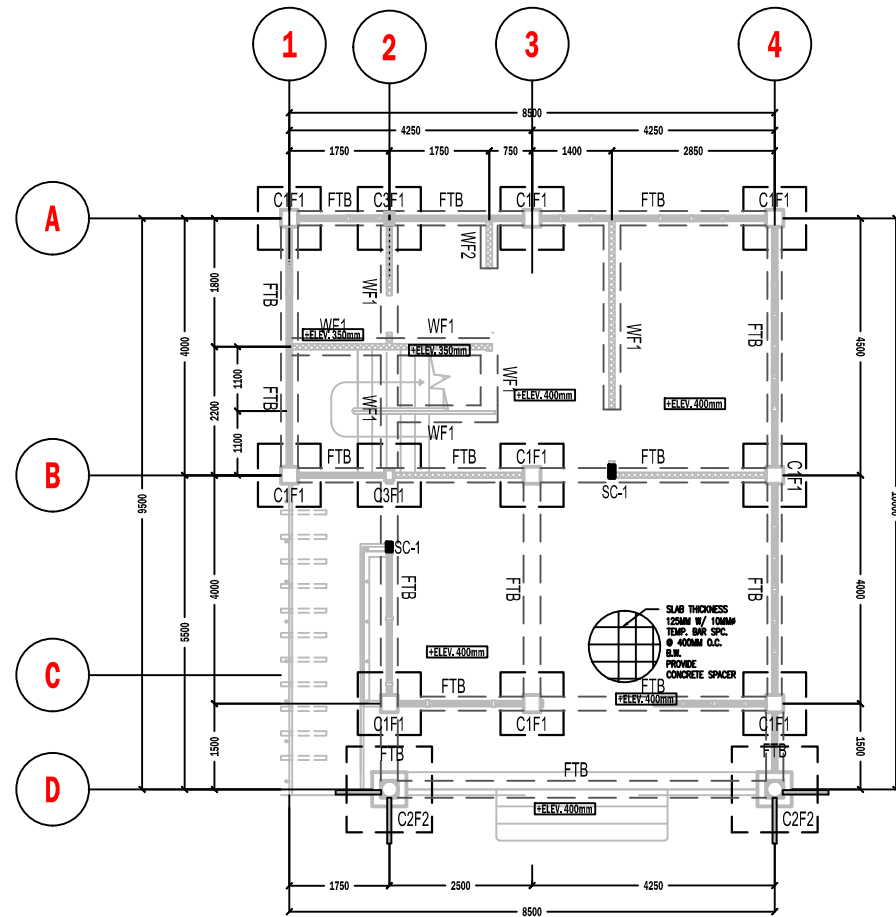
WALL INTERSECTION



DETAIL OF DOOR OPENING

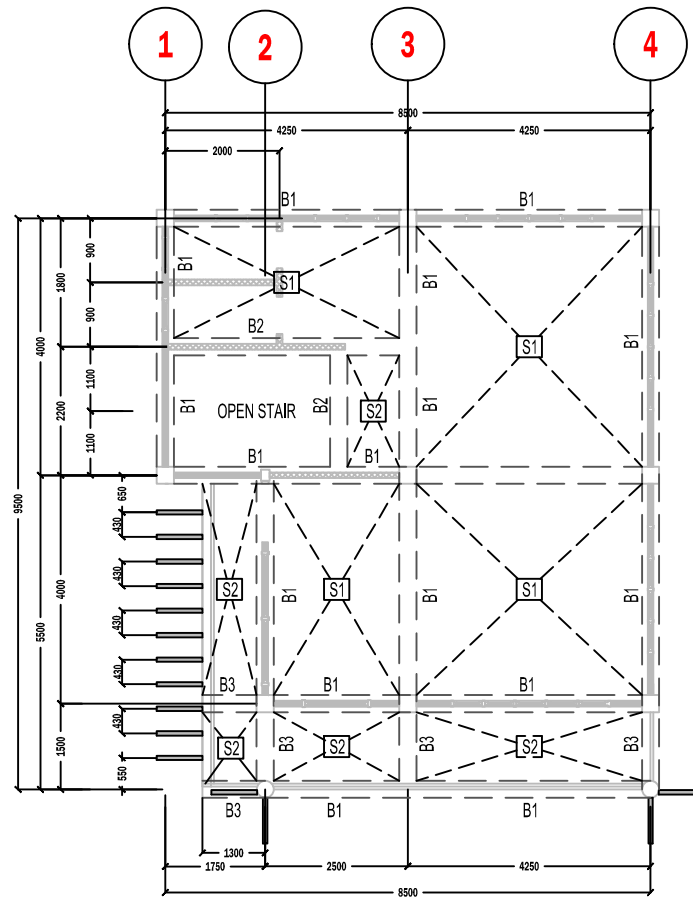


PROJECT TITLE: CONSTRUCTION OF BARANGAY HALL BUILDING LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO	PREPARED BY: NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	CHECKED BY: ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	RECOMMEND APPROVAL: SEE COVER SHEET	APPROVED BY: SEE COVER SHEET	SHEET CONTENT : GENERAL NOTES AND SPECIFICATION LINTEL BEAM SCHEDULE TYPICAL WALL CONNECTION	SHEET NO.: S 1 5
			FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT		



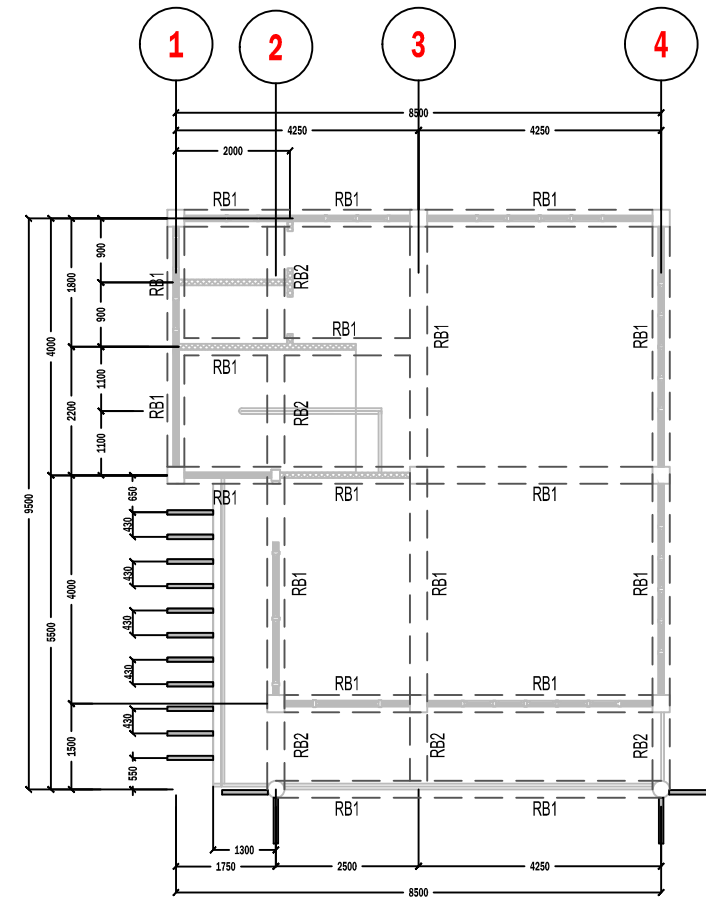
FOUNDATION PLAN

SCALE 1:100



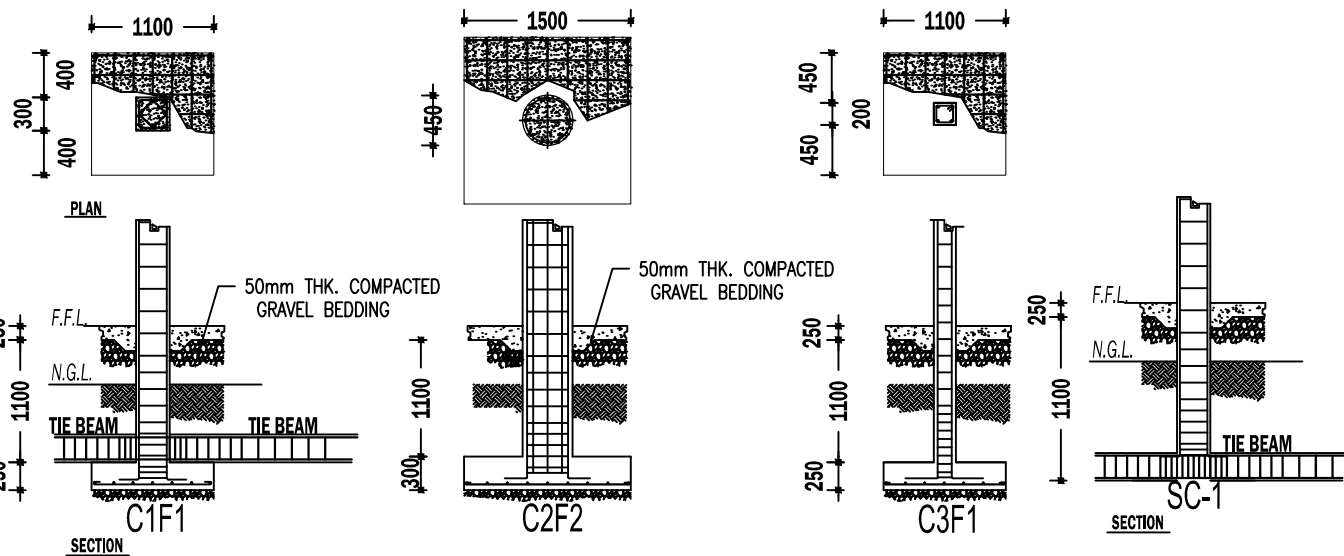
CONCRETE FLOOR BEAM PLAN

SCALE 1:100



CONCRETE ROOF BEAM PLAN

SCALE 1:100



FOOTING AND COLUMN DETAILS

SCALE 1:50

SCHEDULE OF COLUMN

C2		SC-1	
FOUNDATION TO SECOND FLOOR	 SIZE: RADIUS - 225mm 8-16mm $\varnothing$ VERT. TIES: 2 $\varnothing$ 0.05, 4 $\varnothing$ 0.10, 4 $\varnothing$ 0.15 REST $\varnothing$ 0.20 M. O.C	TIE BEAM TO SECOND FLOOR BOTTOM EDGE	 SIZE: HOLLOW DIMENSION 4-12mm $\varnothing$ VERT. TIES: 1 $\varnothing$ 0.05, 4 $\varnothing$ 0.10, 4 $\varnothing$ 0.15 REST $\varnothing$ 0.20 M. O.C
FOUNDATION TO SECOND FLOOR	 SIZE: 0.30X0.30 M. 8-16mm $\varnothing$ VERT. TIES: 2 $\varnothing$ 0.05, 4 $\varnothing$ 0.10, 4 $\varnothing$ 0.15 REST $\varnothing$ 0.20 M. O.C		
FOUNDATION TO SECOND FLOOR	 SIZE: 0.20X0.20 M. 4-12mm $\varnothing$ VERT. TIES: 1 $\varnothing$ 0.05, 4 $\varnothing$ 0.10, 4 $\varnothing$ 0.15 REST $\varnothing$ 0.20 M. O.C		
NOTES: 1. 12mm $\varnothing$ and smaller bars fy=228Mpa (33,000 Psi) 2. 16mm $\varnothing$ and longer bars fy=276Mpa (40,000 Psi)			

NOTES: STRUCTURAL DESIGN (PROGRESSIVE TYPE)
STRUCTURAL DESIGN VARIES WITH
SOIL BEARING CAPACITY OF THE LOCATION

FOOTING SCHEDULE

MARK	THICKNESS	SIZE (M)	BOTTOM BARS		D (M)	REMARK
	T (M)	(L X W)	BAR 'S'	BAR 'L'		
F1	0.25	1.10 X 1.10	7-16MM $\varnothing$ B.W.	7-16MM $\varnothing$ B.W.	1.20	ISOLATED
F2	0.30	1.50 X 1.50	10-16MM $\varnothing$ B.W.	10-16MM $\varnothing$ B.W.	1.20	ISOLATED

- NOTES:
- 12MM $\varnothing$ AND SMALLER BARS FY=228MPA (33,000 PSI)
 - 16MM $\varnothing$ AND LARGER BARS FY=276MPA (40,000 PSI)
 - NO FOOTING SHOULD REST ON BACKFILL MATERIALS
 - IN CASE THE SOIL CONDITION AT THE FOUNDING LEVEL OF THE FOOTING CANNOT BE ASCERTAINED THE EXPERT OR A GEOTECHNICAL ENGINEER TO INVESTIGATE SUB-SURFACE CONDITION.



PROJECT TITLE:
**CONSTRUCTION OF
BARANGAY HALL BUILDING**

LOCATION:
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

PREPARED BY:
NORRODIN H. MANGATONG
ENGINEER-I
PROJECT DEVELOPMENT MANAGEMENT DIVISION

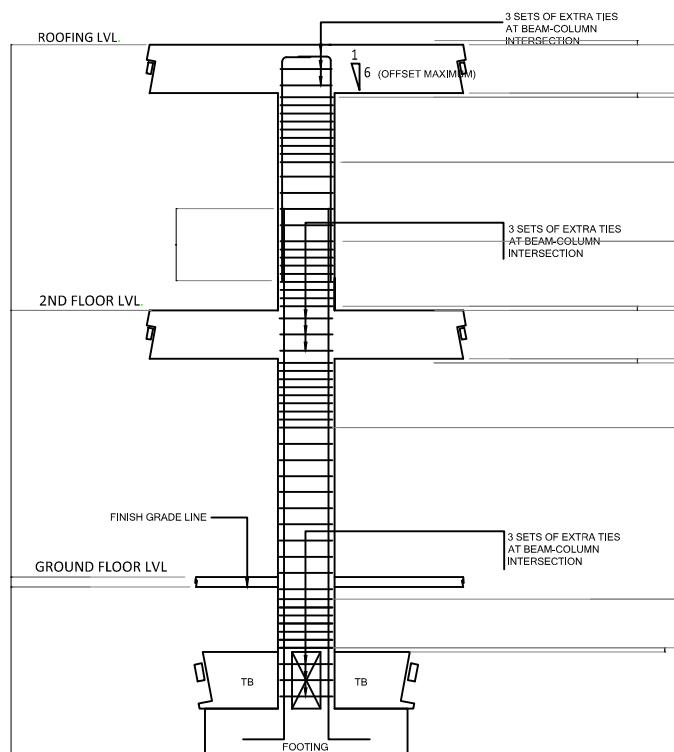
CHECKED BY:
ABIBAZAR W. SALI
PDO-V
PROJECT DEVELOPMENT MANAGEMENT DIVISION

RECOMMEND APPROVAL:
FAUSIAH R. ABDULA
DIRECTOR II
OPERATION MANAGEMENT SERVICE

APPROVED BY:
ATTY. NAGUIB G. SINARIMBO
MINISTER
MINISTRY OF INTERIOR AND LOCAL GOVERNMENT

SHEET CONTENT :
FOUNDATION PLAN
CONCRETE FLOOR BEAM
ROOF BEAM PLAN
COLUMN AND FOOTING DETAILS
FOOTING SCHEDULE

SHEET NO.:
S
2 | 5



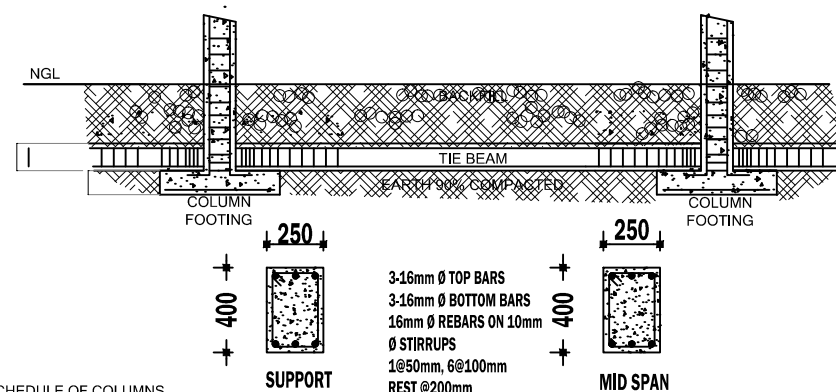
COLUMN ELEVATION

NOTE:

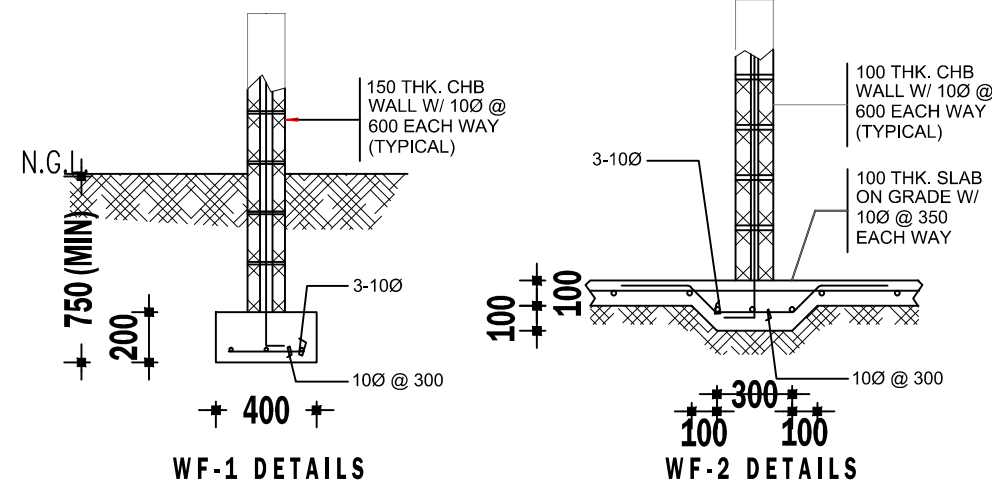
1. SEE SCHEDULE OF COLUMNS FOR NUMBER OF TIES PER SET.
2. NOT MORE THAN 1/3 OF VERTICAL BARS SHALL BE SPICED AT ONE LOCATION.
3. CONSTRUCTION JOINT OF COLUMN SHALL BE LOCATED AT MIDHEIGHT OF FLOOR.

LEGENDS:

Ah = CONFINEMENT TIES
Bh = REGULAR TIE SPACING
Ld = DEVELOPMENT LENGTH



TIE BEAM DETAILS



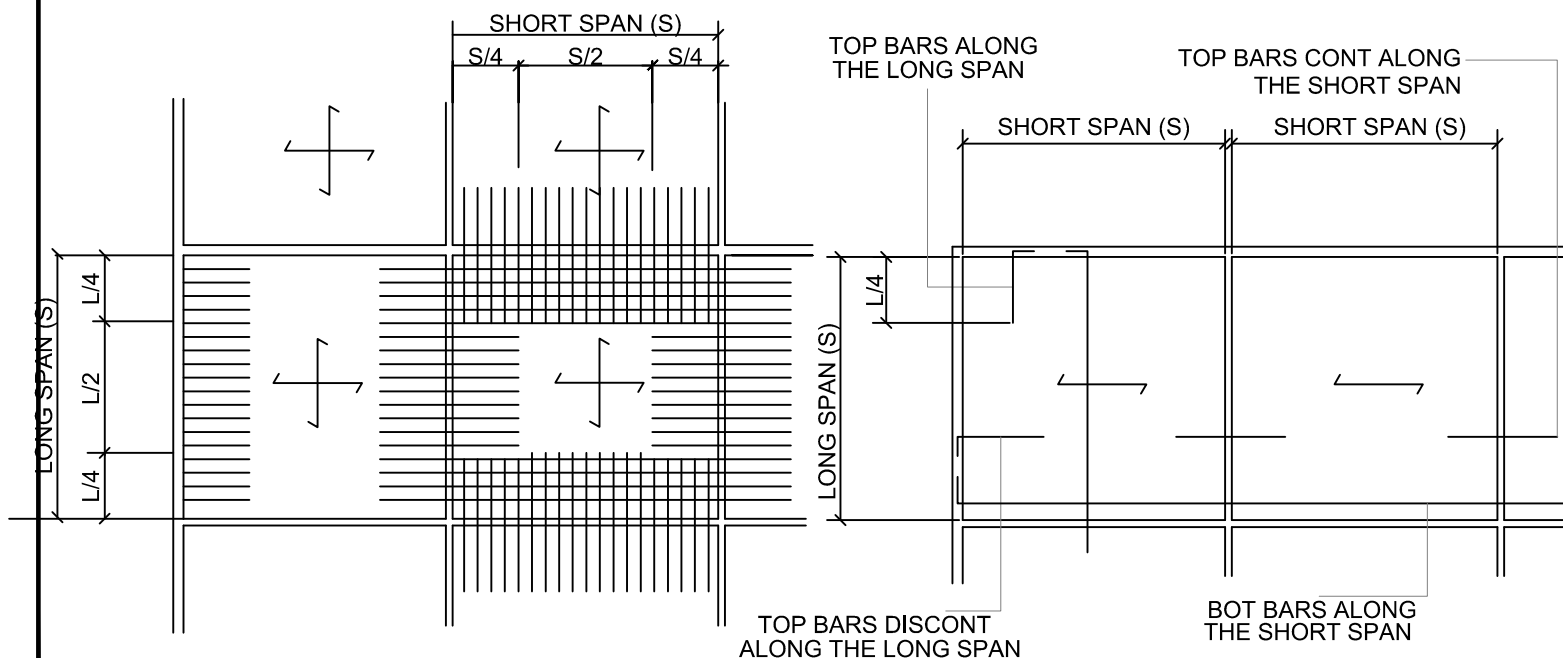
WALL FOOTING DETAILS

SCHEDULE OF SLABS

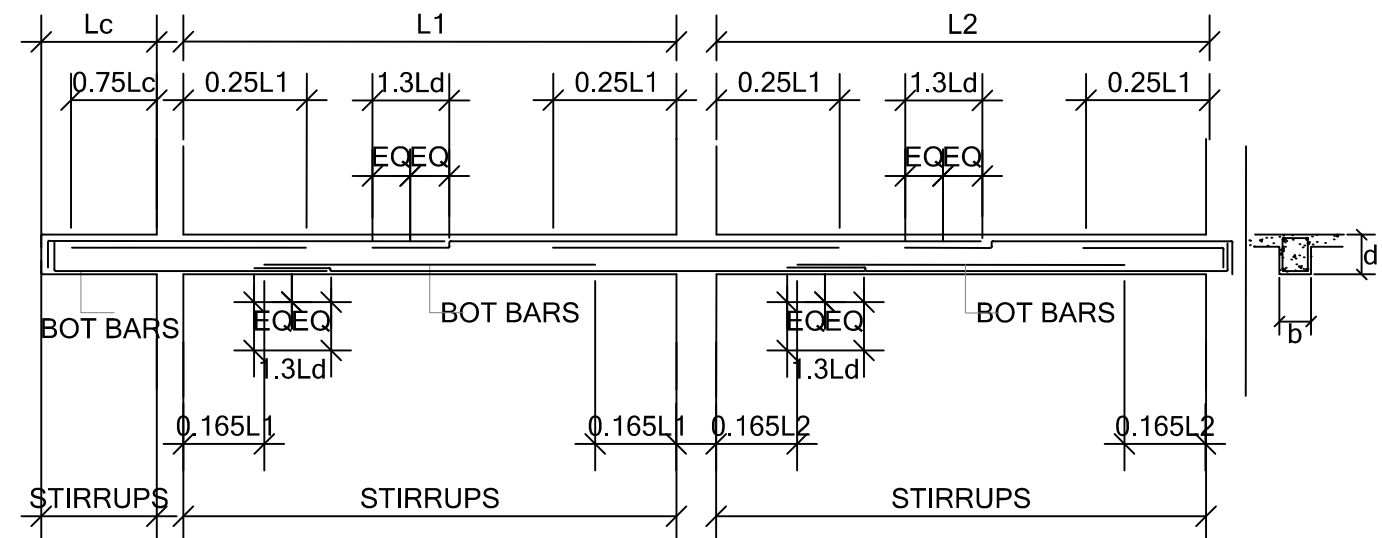
SLAB MARK	THK (+)	BAR (dia)	SHORT SPAN (mm)		LONG SPAN (mm)		REMARKS
			TOP BARS DISC EDGE (TBD)	BOTTOM BARS (BB)	TOP BARS DISC EDGE (TBD)	BOTTOM BARS (BB)	
S1	100	10mm	175	150	200	200	TWO-WAY
S2	100	10mm	175	175	175	175	ONE-WAY

SCHEDULE OF BEAMS

BEAM MARK	BEAM CROSS SECTION		SUPPORT		MIDSPAN		STIRRUPS (10mm dia)
	width	depth	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS	
SECOND FLOOR BEAM AND ROOF BEAM							
B1	250	300	3-16mm dia	2-16mm dia	2-16mm dia	3-16mm dia	1@0.05, 4@0.15 est @0.2CL
B2	250	300	4-16mm dia	2-16mm dia	2-16mm dia	4-16mm dia	1@0.05, 4@0.15 rest @0.2CL
B3	250	300	3-16mm dia	2-16mm dia	2-16mm dia	3-16mm dia	1@0.05, 4@0.15 rest @0.2CL
RB1	200	300	3-16mm dia	2-16mm dia	2-16mm dia	3-16mm dia	1@0.05, 4@0.15 rest @0.2CL
RB2	200	300	3-16mm dia	2-16mm dia	2-16mm dia	3-16mm dia	1@0.05, 4@0.15 rest @0.2CL



TYPICAL FRAMING PLAN OF TWO-WAY SLAB



TYPICAL DETAIL OF BEAM



PROJECT TITLE:
**CONSTRUCTION OF
BARANGAY HALL BUILDING**

LOCATION:
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

PREPARED BY:
NORRODIN H. MANGATONG
ENGINEER-I
PROJECT DEVELOPMENT MANAGEMENT DIVISION

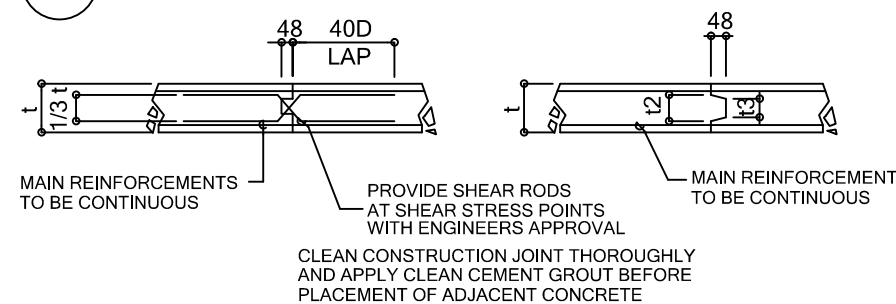
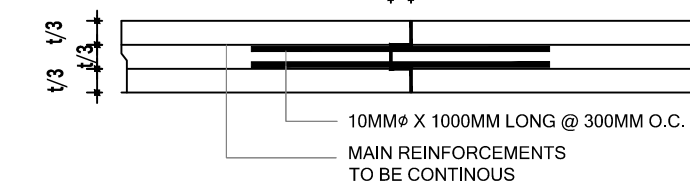
CHECKED BY:
ABIBAZAR W. SALI
PDO-V
PROJECT DEVELOPMENT MANAGEMENT DIVISION

RECOMMEND APPROVAL:
FAUSIAH R. ABDULA
DIRECTOR II
OPERATION MANAGEMENT SERVICE

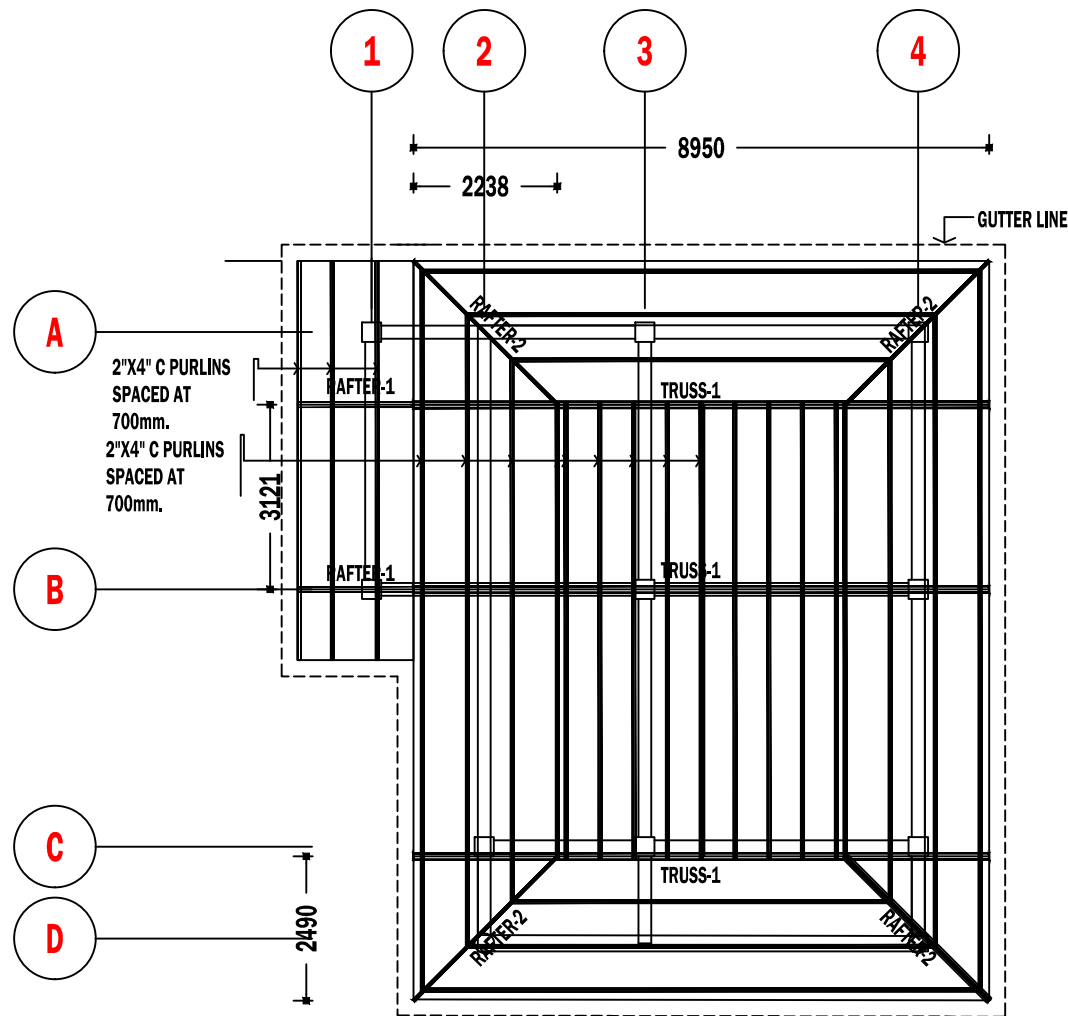
APPROVED BY:
ATTY. NAGUIB G. SINARIMBO
MINISTER
MINISTRY OF INTERIOR AND LOCAL GOVERNMENT

SHEET CONTENT :
COLUMN ELEVATION
TIE BEAM DETAILS
WALL FOOTING DETAILS
TYPICAL SLAB DETAILS
TYPICAL BEAM DETAILS
SCHEDULE OF BEAM & SLAB

SHEET NO.:
S
3 | 5

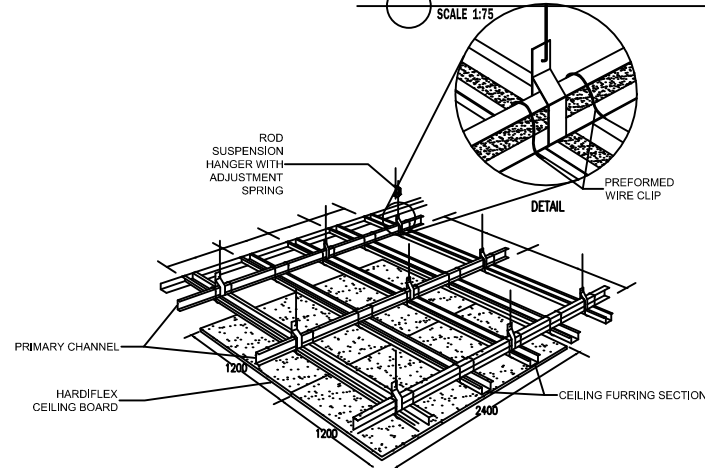


 	PROJECT TITLE: CONSTRUCTION OF BARANGAY HALL BUILDING	PREPARED BY: 	CHECKED BY: 	RECOMMEND APPROVAL: 	APPROVED BY: 	SHEET CONTENT : 	SHEET NO.:
	LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO	NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT	STAIRS DETAIL RAMP DETAILS CONSTRUCTION JOINT DETAIL CONCRETE CANOPY DETAILS CHB WALL TYPICAL ELEVATION & LINTEN BEAM DETAILS	



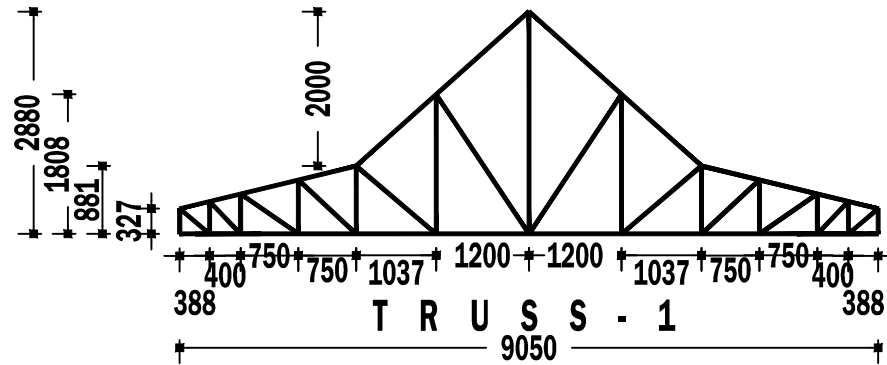
ROOF FRAMING PLAN

SCALE 1:75



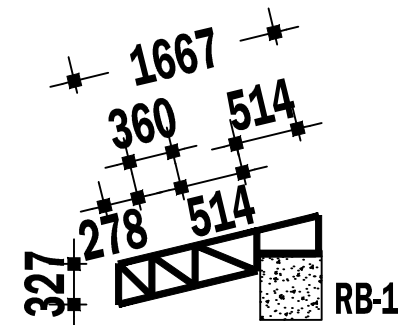
PERSPECTIVE

NOT TO SCALE

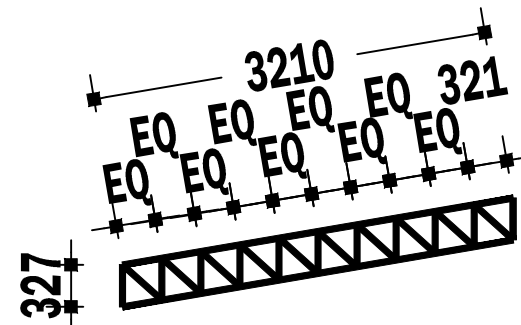


SCHEMATIC TRUSS DIAGRAM

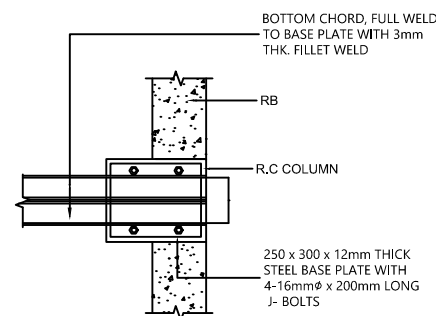
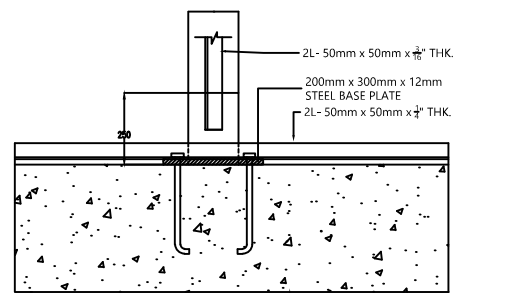
SCALE 1:100



RAFTER - 1



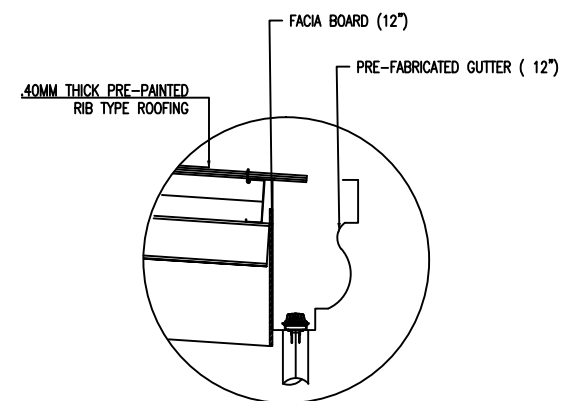
RAFTER - 2



PLAN (AT END OF TRUSS)

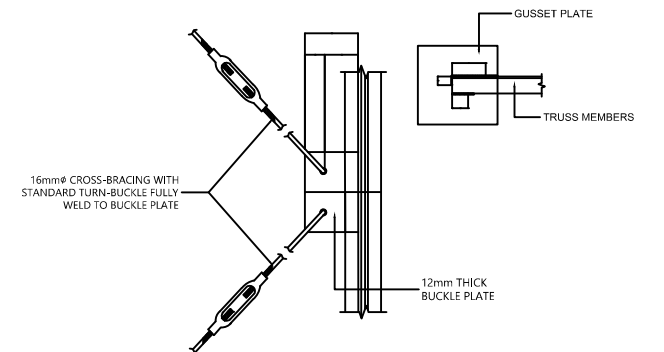
TRUSS SUPPORT CONN. DETAIL

SCALE 1:10



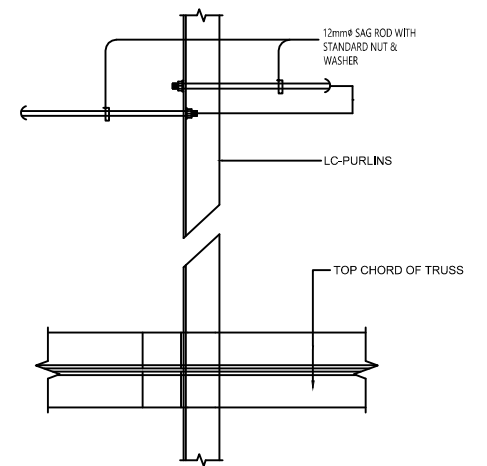
EAVES AND GUTTER DETAIL

SCALE 1:10



DETAIL CONN. OF CROSS BRACING

SCALE 1:10



DETAIL PLAN CONN. OF PURLIN AND SAG ROD

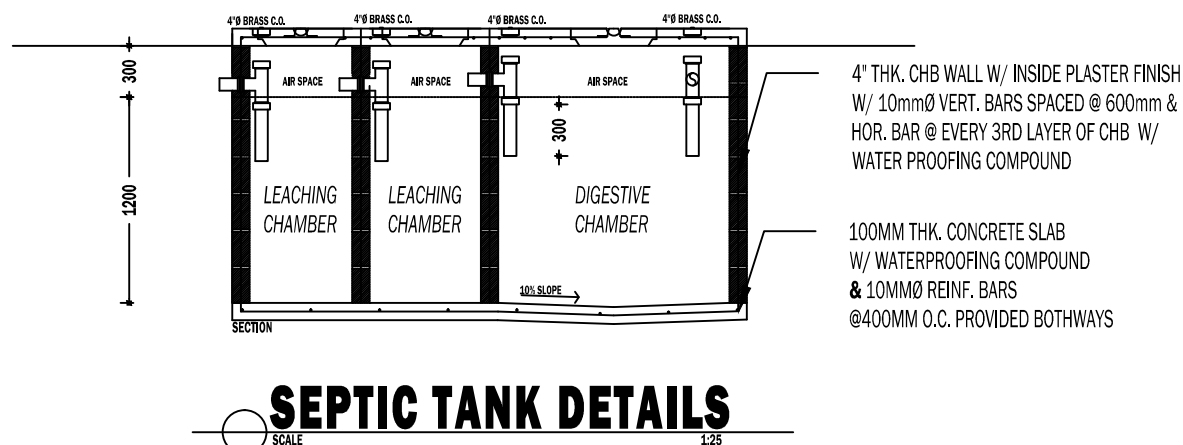
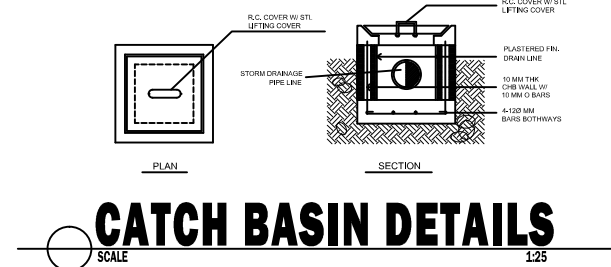
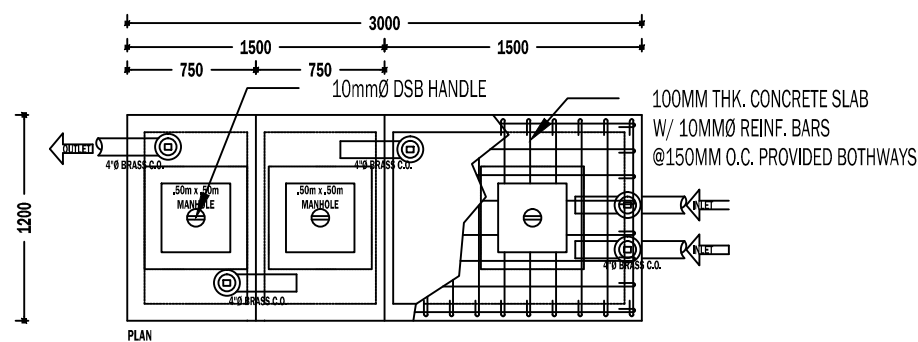
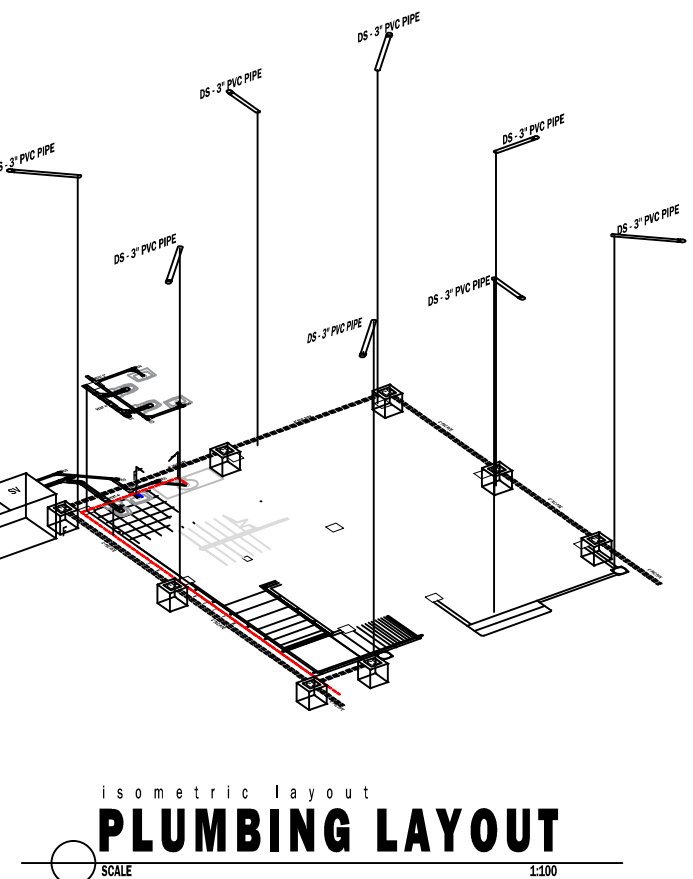
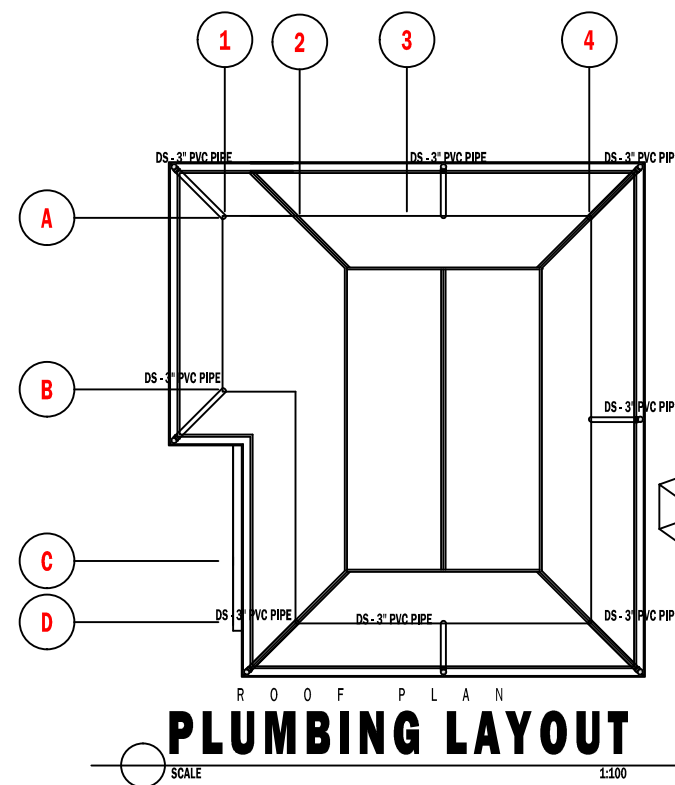
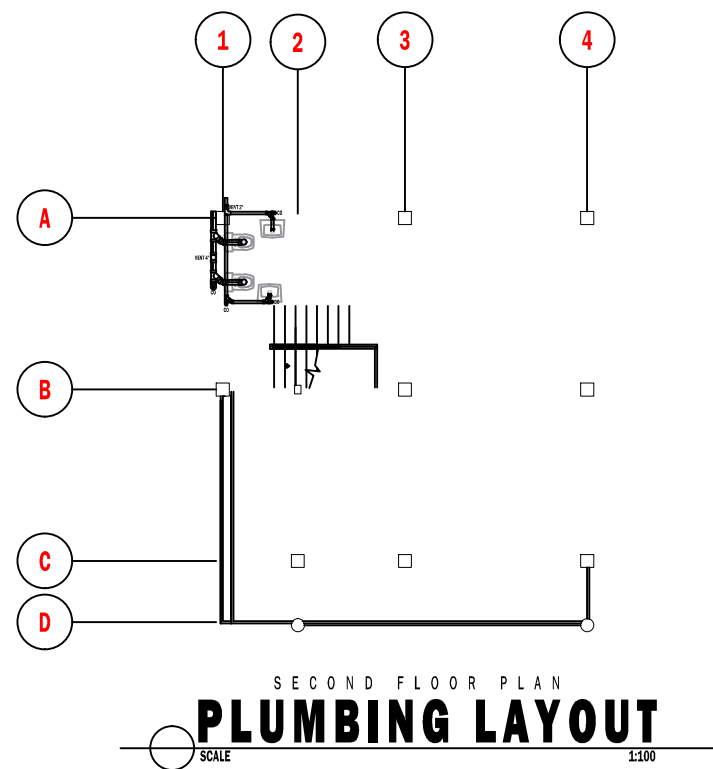
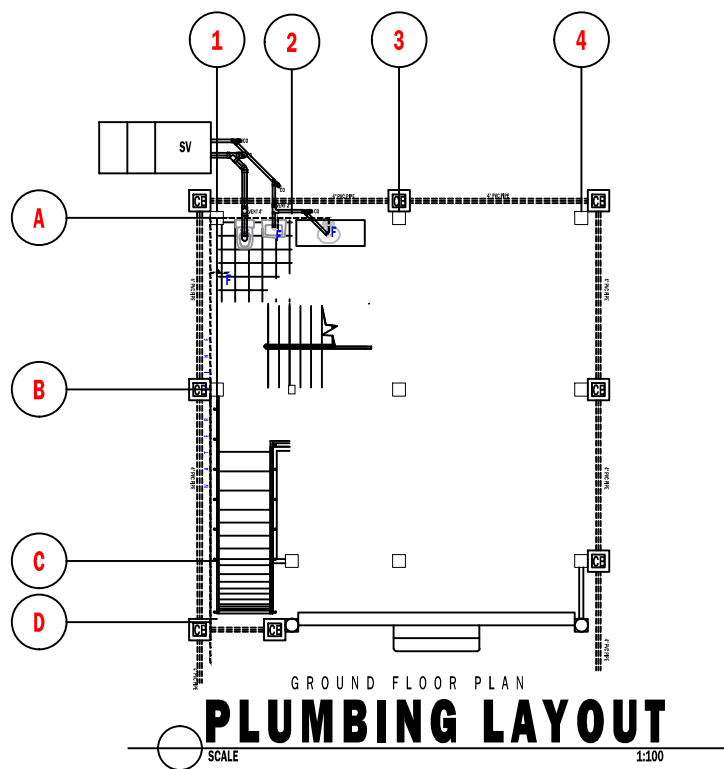
SCALE 1:10

SCHEDULE OF TRUSS MEMEBER

2" X 4" X 2.00mm THK. C-PURLINS SPACED AT 0.70M O.C.
 BOTTOM CHORD - 2 < 2" X 2" X 1/4" THK AB
 TOP CHORD - 2 < 2" X 2" X 1/4" THK AB
 VERTICAL MEMBER - 2 < 2" X 2" X 3/16" THK AB
 DIAGONAL MEMBER - 2 < 2" X 2" X 1/8" THK AB



PROJECT TITLE: CONSTRUCTION OF BARANGAY HALL BUILDING	PREPARED BY:	CHECKED BY:	RECOMMEND APPROVAL:	APPROVED BY:	SHEET CONTENT : ROOF FRAMING PLAN SCHEMATIC TRUSS DIAGRAM RAFTERS DETAILS TRUSS SUPPORT CONN. DETAILS TYPICAL DETAIL CONN. PURLIN & SAG ROD	SHEET NO.: S 5 5
	NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	SEE COVER SHEET	SEE COVER SHEET		
LOCATION: BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO			FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT		



SEPTIC TANK DETAILS

CATCH BASIN DETAILS

PLUMBING NOTES:

- ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE W/ THE LATEST PROVISIONS OF THE NATIONAL PLUMBING CODE
- ALL VERT SOIL & WASTE STACK PIPE SHALL BE EXTEND FULL SIZE ABOVE ROOF LINE AS VENTS EXCEPT OTHERWISE SPECIFICALLY INDICATED
- ALL CHANGES IN PIPE SIZES ON SOIL WASTE LINE SHALL BE MADE W/ THE REDUCING FITTINGS OR RECESS REDUCERS
- PROVIDE CLEANOUT FOR EVERY FIFTEEN METERS (15.00 M) DISTANCE HORIZONTAL LINE
- PROVIDE 50MM Ø P-TRAP FOR EVERY 100M M Ø X 100MM Ø FLR DRAIN
- PROVIDE STOP-COCK FOR EVERY FIXTURES

LEGEND	
S.V.	SEPTIC VAULT
MH	MANHOLE
W.C.	WATER CLOSET
F.D.	FLOOR DRAIN
LAV.	LAVATORY
C.O.	CLEAN OUT
CB	CATCH BASIN
F	FAUCET
GV	GATE VALVE
CV	CHECK VALVE
DS	DOWN SPOUT
	SANITARY LINE
	WATER LINE



PROJECT TITLE:
**CONSTRUCTION OF
BARANGAY HALL BUILDING**
LOCATION:
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

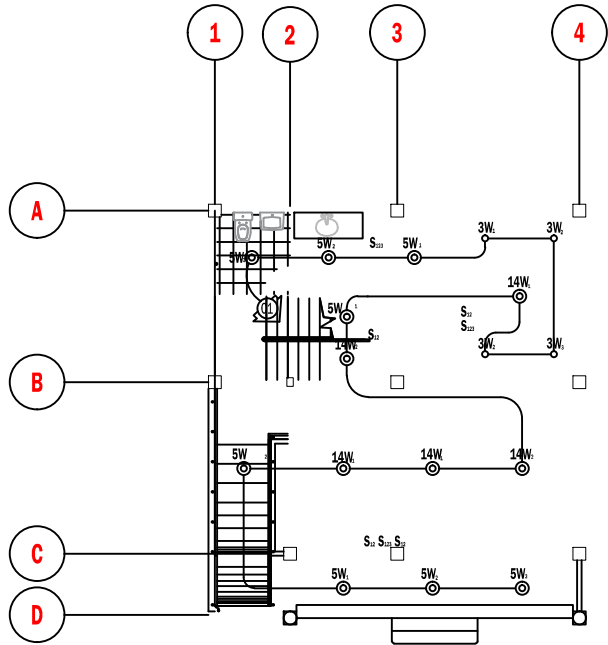
PREPARED BY:
NORRODIN H. MANGATONG
ENGINEER-I
PROJECT DEVELOPMENT MANAGEMENT DIVISION

CHECKED BY:
ABIBAZAR W. SALI
PDO-V
PROJECT DEVELOPMENT MANAGEMENT DIVISION

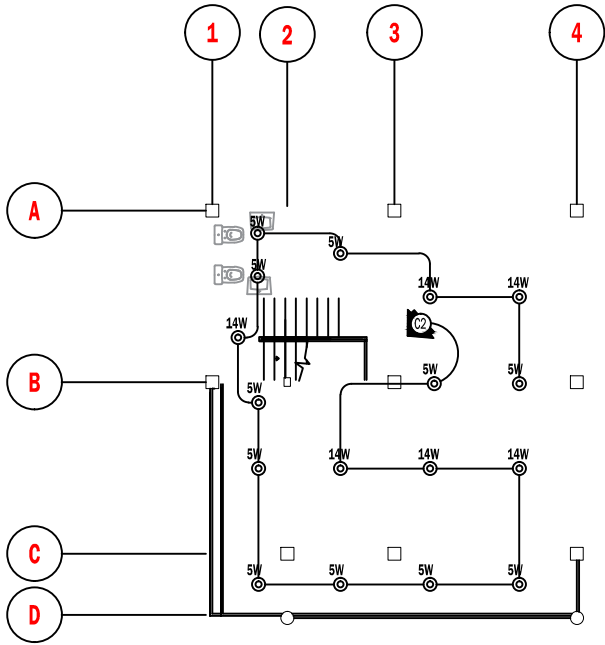
RECOMMEND APPROVAL:
FAUSIAH R. ABDULA
DIRECTOR II
OPERATION MANAGEMENT SERVICE

APPROVED BY:
ATTY. NAGUIB G. SINARIMBO
MINISTER
MINISTRY OF INTERIOR AND LOCAL GOVERNMENT

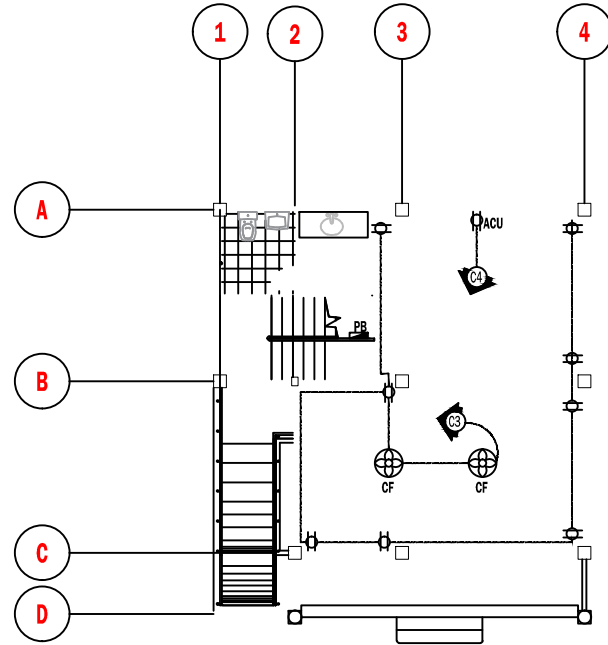
SHEET CONTENT :
**PLUMBING LAYOUT PLANS
SEPTIC VAULT DETAIL
CATCH BASIN DETAIL
BLOW-UP DETAIL OF T&B**
SHEET NO.:
**P
1 | 1**



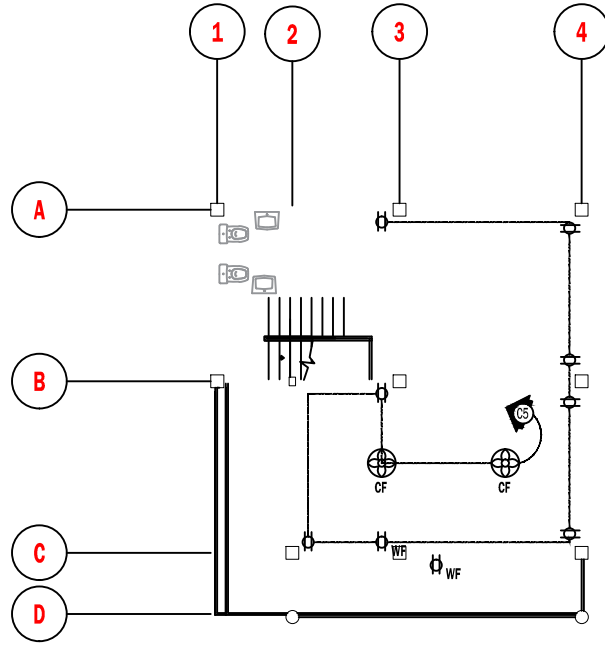
GROUND FLOOR
LIGHTING LAYOUT
SCALE 1:100



SECOND FLOOR
LIGHTING LAYOUT
SCALE 1:100



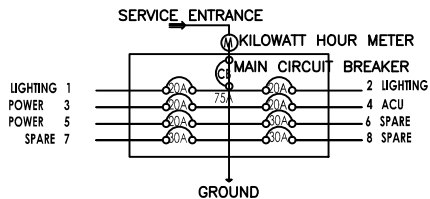
GROUND FLOOR
POWER LAYOUT
SCALE 1:100



SECOND FLOOR
POWER LAYOUT
SCALE 1:100

CIRCUIT NO.	D E S C R I P T I O N	WATTS	VOLTS	AMPERE	CONDUCTOR AND CONDUITS
C1	4- 3W LIGHTING OUTLET 8- 5W LIGHTING OUTLET 5- 14W LIGHTING OUTLET	122W	220V	0.55	2 - 220mm DIA. TW WIRE IN 25mm DIA. PVC PIPE
C2	9- 5W LIGHTING OUTLET 6- 14W LIGHTING OUTLET	129W	220V	0.59	2 - 220mm DIA. TW WIRE IN 25mm DIA. PVC PIPE
C3	2- CEILING FAN 60W 8- POWER OUTLET DUPLEX 360W	3000W	220V	13.64	2 - 220mm DIA. TW WIRE IN 25mm DIA. PVC PIPE
C4	1- 1HP. 230V 2P WINDOW TYPE AC	1000W	220V	4.55	2 - 5.5mm DIA. THW WIRE 1 - 1.4mm DIA. THW WIRE IN 25mm DIA PVC PIPE
C5	2- CEILING FAN 60W 8- POWER OUTLET DUPLEX 360W	3000W	220V	13.64	2 - 220mm DIA. TW WIRE IN 25mm DIA. PVC PIPE
	TOTAL	7251W	220V	32.97	

SCHEDULE OF LOADS



SCHEMATIC ONE LINE DIAGRAM

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
3W	PANEL BOARD	KB	KILOWATT HOUR METER
3w	3w PINLIGHT	CH	CIRCUIT HOME RUN
7w	7w PINLIGHT	PL	POWERLINE
14w	14w PINLIGHT	LI	LIGHTING LINE
CF	CEILING FAN	SW	SWITCH LINE
ACU	AIR CONDITION UNIT	GO	ONE GANG OUTLET
CO	CONVENIENCE OUTLET	GO	TWO GANG OUTLET
WFO	WEATHERPROOF OUTLET	GO	THREE GANG OUTLET

ELECTRICAL LEGENDS

GENERAL NOTES:

ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, PROVISIONS OF THE LATEST APPROVED PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL ELECTRIC, TELEPHONE COMPANY AND BUILDING ADMINISTRATION REQUIREMENTS.

- CONTRACTOR SHALL SECURE ALL ELECTRICAL PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE CERTIFICATE OF FINAL ELECTRICAL INSPECTION.
- CONTRACTOR SHALL CONDUCT EARTH GROUND TEST, WIRE INSULATION AND LOAD TEST UPON COMPLETION OF WORKS.
- IN CASE OF DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATIONS & REVISIONS/ CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY & CONSULT TO/ WITH THE ELECTRICAL ENGINEER OF THE PNP-ENGINEERING SERVICE (PNPES).
- ALL LOCATION & MOUNTING HEIGHTS ARE SUBJECT TO APPROVAL OF ELECTRICAL ENGINEER OF PNPES.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF AS-BUILT PLANS DULY SIGNED AND SEALED BY A PROFESSIONAL ELECTRICAL ENGINEER, AND ELECTRONIC AUTOCAD FILES.
- FINAL LIGHTING FIXTURES AND WIRING DEVICES SHALL BE APPROVED BY PNPES, REPRESENTATIVE/ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF SHOP OR CONSTRUCTION DRAWING REQUIRED BY OWNER/ARCHITECT/ENGINEER, THIS INCLUDES DEVICES AND FIXTURES ELEVATION.
- CONTRACTOR SHALL VISIT SITE CONDITION AND INCLUDE ALL COST NECESSARY TO COMPLETE THE SYSTEM AT NO COST TO OWNER, INCLUDING COST OF CORING SERVICE AND EXPENSES FOR THE RESTORATION OF ANY DAMAGE/ AFFECTED CIVIL/ ARCHITECTURAL FINISHES OR RELOCATION OF EXISTING FACILITIES ON BUILDING.
- CONTRACTOR SHALL LOCATE ALL SPLICING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS.
- NOMINATED CONTRACTOR TO VERIFY ALL EQUIPMENTS TO BE INSTALLED OR PLACE WITHIN THE BUILDING, AND MAKE AN ADJUSTMENT WITH THE PNPES ENGINEER/ ARCHITECT CONSENT.
- THIS DRAWINGS ARE DIAGRAMATIC LAYOUT ONLY, ANY MATERIALS AND FITTINGS NOT SHOWN ON THIS PLANS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR'S SCOPE OF WORKS.
- ADDITIONAL NOTES:
 - USE OF MICA SHALL BE LIMITED TO 150mm MAXIMUM
 - USE OF FLEXIBLE METALLIC CONDUIT SHALL BE LIMITED TO 1m MAXIMUM
 - PROVIDE PROPER CONDUIT SUPPORT, G.I. WIRES AS SUPPORT SHALL NOT BE ALLOWED
 - PROVIDE DOUBLE COAT OF RUST PROTECTIVE PAINT (RED OXIDE PRIMER) ON HANGERS AND SUPPORTS.

SPECIFICATIONS:

ALL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF LICENSE DULY REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

- POWER SUPPLY TO THE BUILDING SHALL BE 230V, SINGLE PHASE, 3-WIRES, 60HZ.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR PURPOSE & LOCATION.
- NORMAL AND EMERGENCY CIRCUIT SHALL NOT BE COMBINED IN ONE RACEWAY OR CONDUIT.
- RECEPTACLES FOR GENERAL USE SHALL BE DUPLEX 20A, 250VAC, GROUND TYPE.
- ALL WIRES SHOULD HAVE A MAXIMUM LOAD OF 80% OF WIRE AMPACITY.
- LIGHT SWITCHES MINIMUM RATING SHALL BE 16A 230VAC.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND SHALL HAVE THE "P.S." MARKS.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 - A. LIGHT SWITCHES - 1.37m above Floor finish
 - B. CONVENIENCE OUTLET - 0.3m above Floor finish
 - C. TELEPHONE OUTLET - 0.3m above Floor finish
 - D. PANEL BOARD - 1.8m ABOVE FLOOR FINISH
- CONDUIT EMBEDDED WITHIN CONCRETE WALL SHALL HAVE A MINIMUM CEMENT PLASTERED OF 20mm THICK.
- ALL CONDUIT/ PIPE ABOVE CEILING SHOULD HAVE INDEPENDENT HANGER/ SUPPORTS.
- ALL LIGHTING FIXTURES SHOULD HAVE INDEPENDENT HANGER/ SUPPORTS.
- ALL BOXES SHALL BE OCCUPIED ONLY OF 50% OF WIRE VOLUME.
- VOLTAGE DROP SHALL BE LIMITED TO 2.5% FROM SOURCE TO PANEL BOARD AS P.E.C. REQUIREMENT OR ACCEPTABLE TO THE LABORATORY EQUIPMENT.
- CIRCUIT BREAKERS SERVING MOTORS AND LIGHTING SHALL BE INDUSTRIAL AND COMMERCIAL BOLT-ON TYPE RESPECTIVELY WITH MINIMUM OF 14KAIC.
- ALL WIRES AND CABLES SHALL BE BRAND NEW AND APPROVED TYPE.
- ALL CIRCUITS SHALL BE 2-WIRES 1Ø AND PREFERABLY BE COLOR CODED AS FOLLOWS:
 - LINE 1 - BLACK
 - LINE 2 - RED
 - GROUND WIRE - WHITE/GRAY
- USE SOLDERLESS CONNECTOR, MECHANICAL 3 PRESSURE TYPE COPPER LUGS FOR CONNECTION OF WIRES LARGER THAN 8mm².



PROJECT TITLE:
**CONSTRUCTION OF
BARANGAY HALL BUILDING**

LOCATION:
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

PREPARED BY:
NORRODIN H. MANGATONG
ENGINEER-I
PROJECT DEVELOPMENT MANAGEMENT DIVISION

CHECKED BY:
ABIBAZAR W. SALI
PDO-V
PROJECT DEVELOPMENT MANAGEMENT DIVISION

RECOMMEND APPROVAL:
FAUSIAH R. ABDULA
DIRECTOR II
OPERATION MANAGEMENT SERVICE

APPROVED BY:
ATTY. NAGUIB G. SINARIMBO
MINISTER
MINISTRY OF INTERIOR AND LOCAL GOVERNMENT

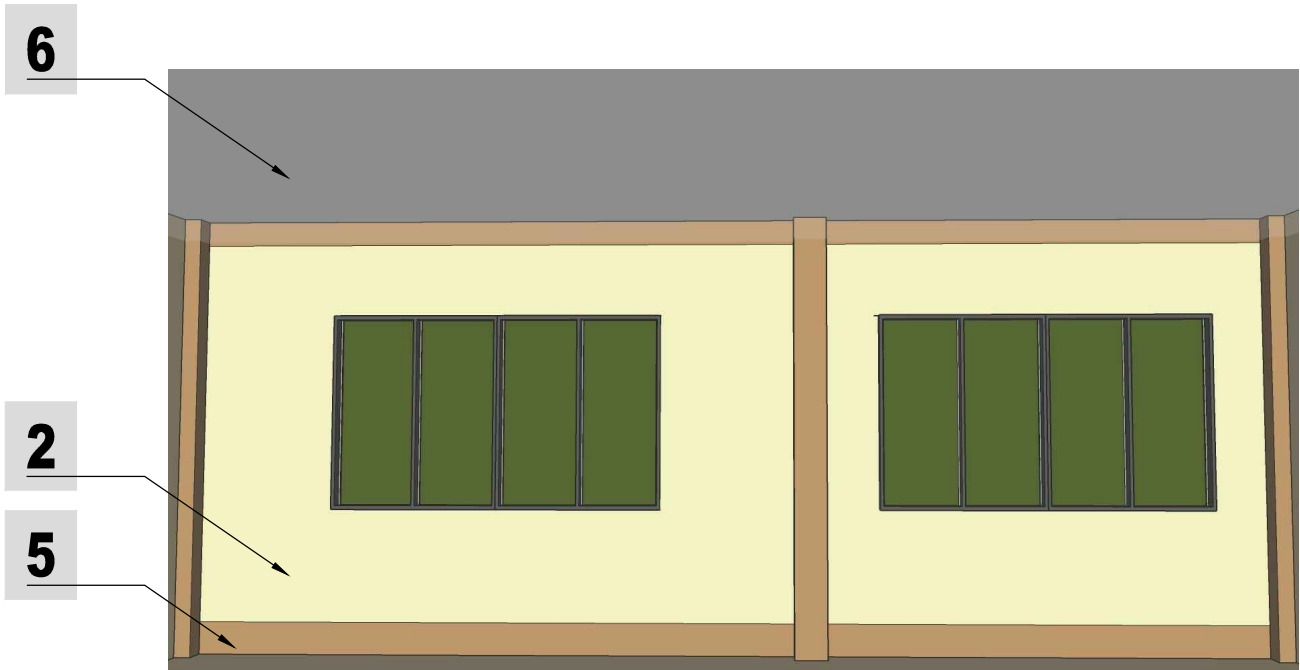
SHEET CONTENT :
**LIGHTING LAYOUT PLANS
POWER LAYOUT PLANS
LEGEND
SCHEMATIC RISER DIAGRAM
SCHEDULE OF LOADS
GENERAL NOTES AND SPECS.**

SHEET NO.:
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1 | 1



EXTERIOR PAINT FINISH

SCALE : NTS



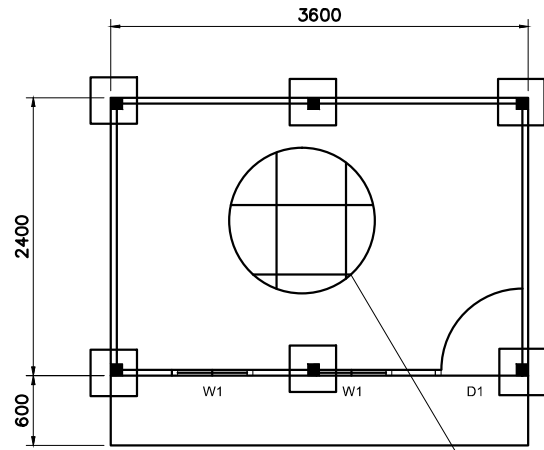
INTERIOR PAINT FINISH

SCALE : NTS

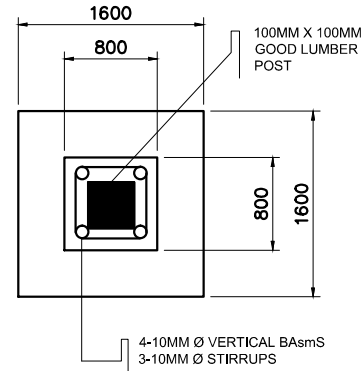
COLOR SCHEDULES				
MARK	DESCRIPTION/AREA	COLOR TYPE	APPLICATION	OUTPUT
1	ROOFING, GUTTER & FLASHING	PRE- PAINTED (FOREST GREEN)	PRIMER FINAL	GLOSSY FOREST GREEN
2	WALL SURFACE (INTERIOR)	FLAT WALL LATEX PURE IVORY SEMI-GLOSS LATEX	PRIMER FINAL	PURE IVORY
3	WALL SURFACE (EXTERIOR)	FLAT WALL LATEX PURE IVORY SEMI-GLOSS LATEX	PRIMER FINAL	PURE IVORY
4	SPIRAL COLUMN	FLAT WHITE LATEX BROWN LATEX	PRIMER FINAL	GLOSSY BROWN
5	CONCRETE DECORATIVE CANOPY, BEAMS, RECTANGULAR COLUMN & WALLS BASE BOARD	FLAT WHITE LATEX PAWN BEIGE LATEX	PRIMER FINAL	GLOSSY PAWN BEIGE
6	CEILING	QDE SEMI-GLOSS ENAMEL	PRIMER FINAL	GLOSSY WHITE
7	SPIRAL COLUMN BASE BOARD	FLAT WHITE LATEX GRAY LATEX	PRIMER FINAL	GLOSSY GRAY
8	PLANT BOX	FLAT WHITE LATEX SEINNA LATEX	PRIMER FINAL	SEINNA
9	BALCONY DECORATIVE RAILINGS	PRIMER RED OXIDE GLOSSY BLACK	PRIMER FINAL	GLOSSY BLACK
	BALCONY HANDRAILS & FRAME	PLEASE USE STAINLESS MATERIAL	SAME AS RAMP GUARD RAIL	TUBULAR STAINLESS

COLOR SCHEME SCHEDULES

		PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMEND APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO.:
		CONSTRUCTION OF BARANGAY HALL BUILDING	NORRODIN H. MANGATONG ENGINEER-I PROJECT DEVELOPMENT MANAGEMENT DIVISION	ABIBAZAR W. SALI PDO-V PROJECT DEVELOPMENT MANAGEMENT DIVISION	SEE COVER SHEET FAUSIAH R. ABDULA DIRECTOR II OPERATION MANAGEMENT SERVICE	SEE COVER SHEET ATTY. NAGUIB G. SINARIMBO MINISTER MINISTRY OF INTERIOR AND LOCAL GOVERNMENT	INTERIOR & EXTERIOR PAINT FINISH COLOR SCHEME SCHEDULES	A 11 11

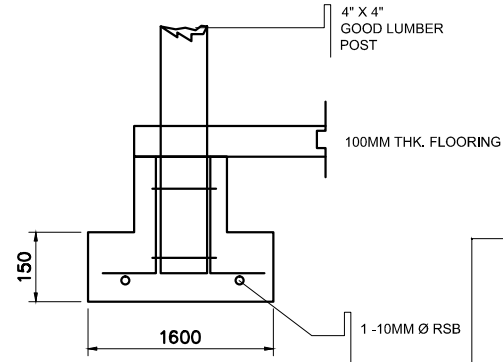


FLOOR PLAN

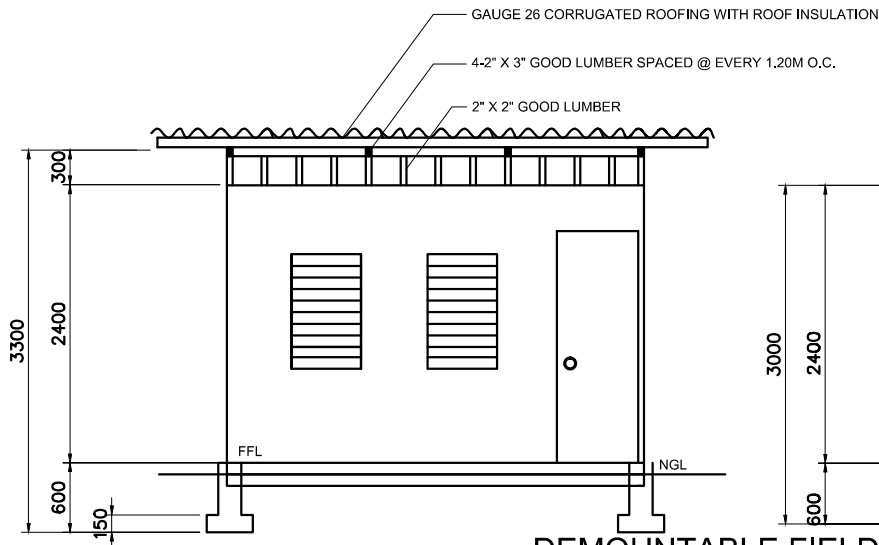


PLAN

DETAIL OF POST

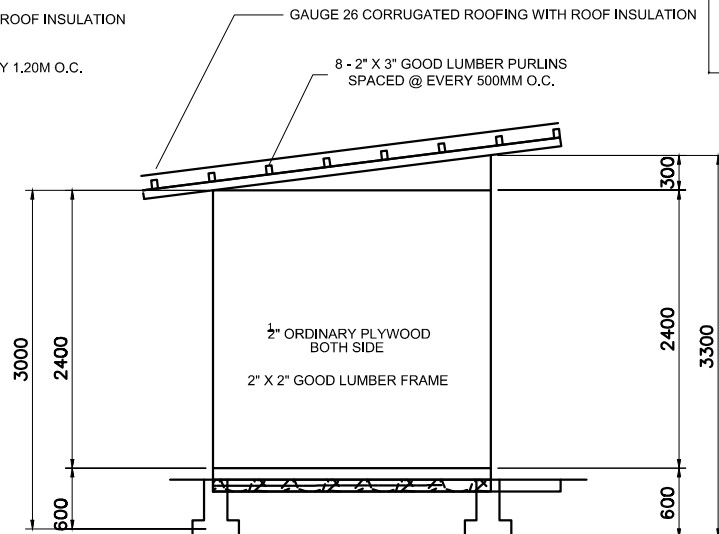


SECTION



FRONT VIEW

DEMOUNTABLE FIELD OFFICE



RIGHT SIDE VIEW

8 Ft.

8 Ft.

WHITE BACKGROUND

Bangsamoro Autonomous Region in Muslim Mindanao
MINISTRY OF THE INTERIOR AND LOCAL GOVERNMENT
 Bangsamoro Government Center, Governor Gutierrez Avenue,
 Rosary Heights VII, Cotabato City, Barmm 9600

Project: _____

Location: _____ Cost: _____

Fund/Source/s: _____

Implementing Agency/ies: _____

Development Partner/s: _____

Contractor/Supplier: _____

Brief Description of Project: _____

Project Details:

Project Date			Project Date			Remarks
Duration	Started	Target Date of Completion	Percentage of Completion	As of (Date)	Cost Incurred to Date	

For particulars or complaints about this project please contact the regional Office or Cluster which has audit jurisdiction on this project.

COA Regional Office No./Cluster: _____

Address: _____

Contact No.: _____ or Text COA Citizen's Desk at 0915-5391957

COA BILLBOARD



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 BARANGAY HALL BUILDING**

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RECOMMEND APPROVAL:
 SEE COVER SHEET

FAUSIAH R. ABDULA
 DIRECTOR II
 OPERATION MANAGEMENT SERVICE

APPROVED BY:
 SEE COVER SHEET

ATTY. NAGUIB G. SINARIMBO
 MINISTER
 MINISTRY OF INTERIOR AND LOCAL GOVERNMENT

SHEET CONTENT :
 FIELD OFFICE DETAILS
 COA BILLBOARD

SHEET NO.:
 C
 1 2

