REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGION - XIII

SURIGAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE

SURIGAO CITY

C.Y. 2024 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR

COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING

BARANGAY POBLACION, SISON, SURIGAO DEL NORTE

SUBMITTED:

NESAH B. DAPAR
OIC - PLANNING AND DESIGN SECTION
DATE:

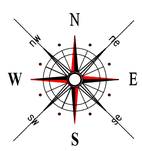
RECOMMENDED:

ROMMEL A. PIAPE
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

DOHJIE B. MORALES, MPA
OIC - DISTRICT ENGINEER
DATE:

PERSPECTIVE
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

TABLE OF CONTENTS

ARCHITECTURAL

STRUCTURAL

ELECTRICAL

PLUMBING

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

OFFICE OF THE BUILDING OFFICIAL

_____
DISTRICT/ CITY/ MUNICIPALITY

LAND USE AND ZONING:
APPROVED: **DATE:**

LINE AND GRADE:
APPROVED: **DATE:**

ARCHITECTURAL:
APPROVED: **DATE:**

STRUCTURAL:
APPROVED: **DATE:**

ELECTRICAL:
APPROVED: **DATE:**

SANITARY / PLUMBING:
APPROVED: **DATE:**

MECHANICAL:
APPROVED: **DATE:**

FIRE SAFETY:
APPROVED: **DATE:**

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING
BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE

SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION)
APPROPRIATION: P 10,000,000.00

SHEET CONTENTS:
PERSPECTIVE
SITE DEVELOPMENT PLAN
VICINITY MAP

DRAFTED AND PREPARED :
MARY HEART NICOLE S. MADROÑAL
ENGINEERING ASSISTANT
DATE:

REVIEWED:
RAUL L. PREGADOS
ARCHITECT II
DATE:

SUBMITTED:
NESAH B. DAPAR
OIC- PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
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ASSISTANT DISTRICT ENGINEER
DATE:

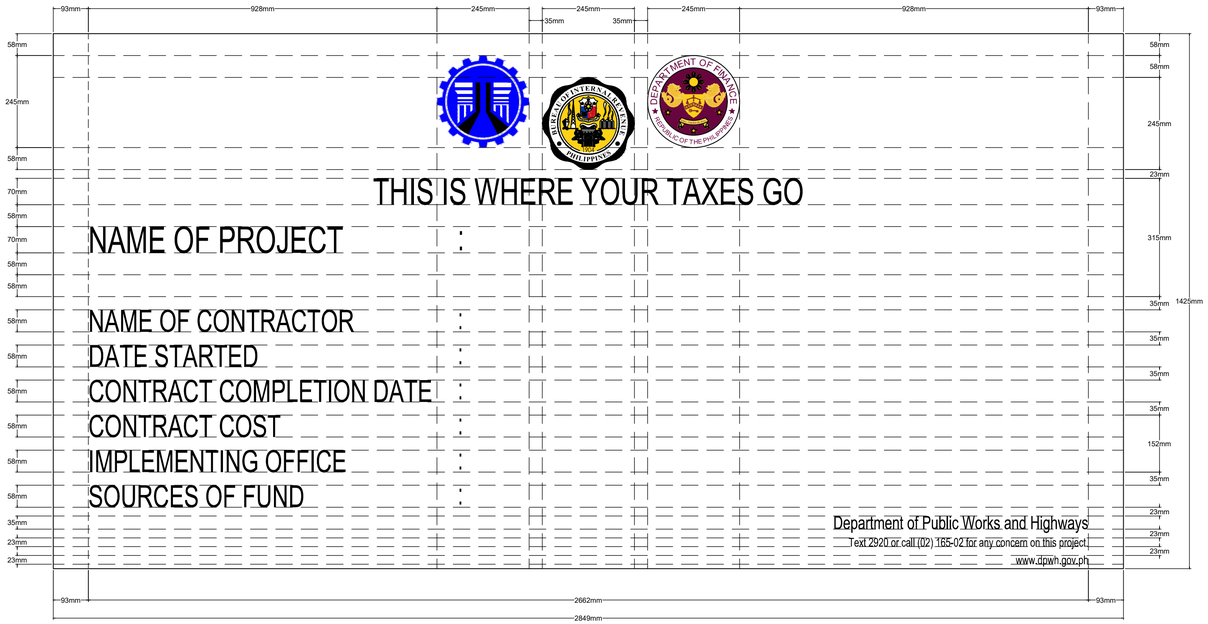
APPROVED:
DOHJIE B. MORALES, MPA
OIC- DISTRICT ENGINEER
DATE:

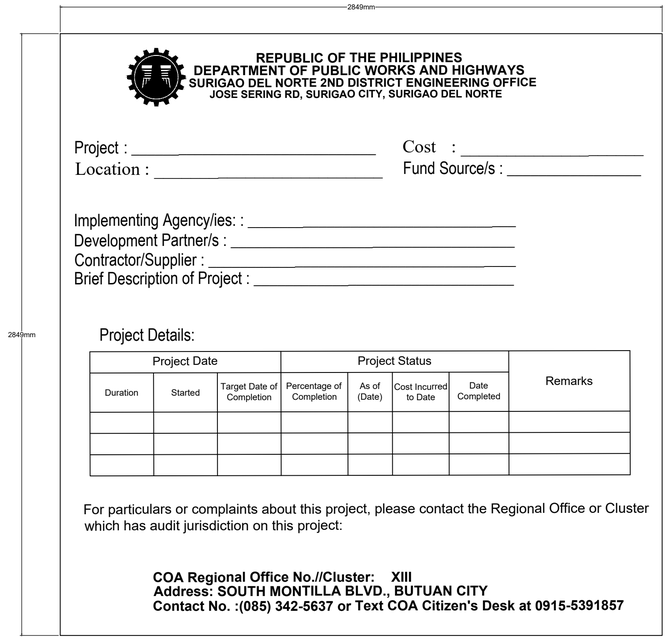
SET NO: A 1 | 12

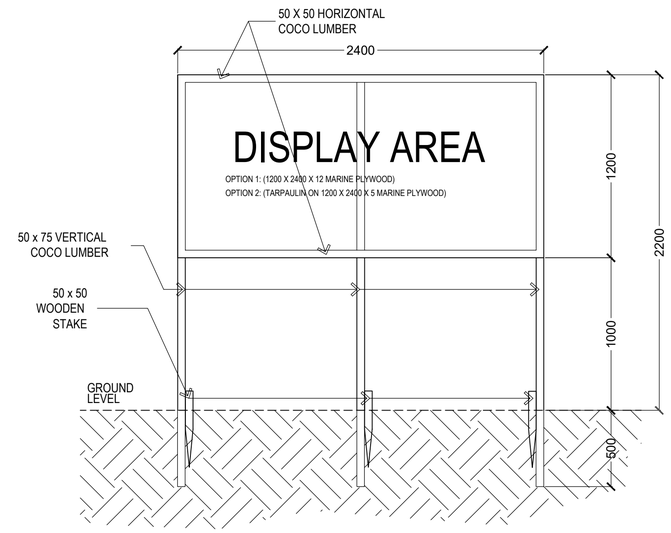
SHEET NO: 1 | 18

PLANNING AND DESIGN SECTION

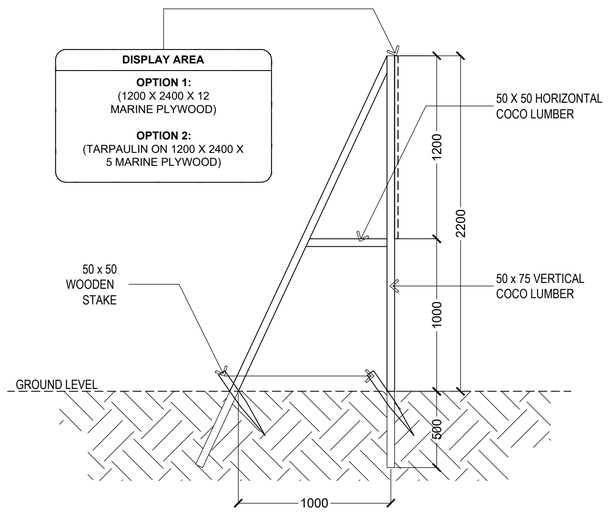
PROJECT BILLBOARD



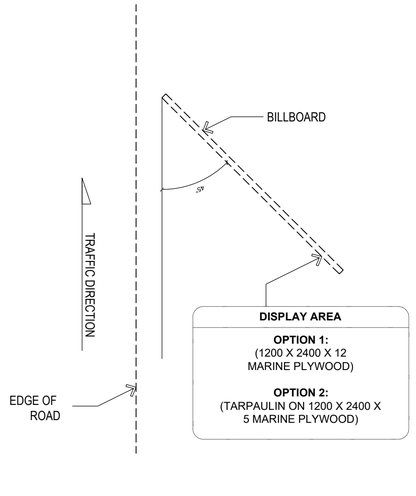




FRONT ELEVATION



TYPICAL FRAME ELEVATION



ORIENTATION

NOTES:

1. ADOPTED FROM D.O. 72 SERIES OF 2015.
2. THE NEW BILLBOARD DESIGN LAYOUT AND DIMENSION SHALL BE INSTALLED ON A STANDARD BILLBOARD MEASURING 1200mm X 2400mm (4' X 8') USING 12mm ($\frac{1}{2}$") THICK MARINE PLYWOOD OR TARPAULIN POSTED ON 5mm ($\frac{1}{4}$") MARINE PLYWOOD.
3. THE COLOR SHADE COMBINATION FOR THE YELLOW BACKGROUND OF THE NEW PROJECT BILLBOARD DESIGN IS AS FOLLOWS:
   - CYAN - 0
   - MAGENTA - 7
   - YELLOW - 78
   - KEY - 0
4. FOR EACH BUILDING PROJECT, THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE.
5. FOR EACH ROAD/BRIDGE/FLOOD CONTROL PROJECT, TWO BILLBOARDS SHALL BE INSTALLED, I.E., ONE AT THE BEGINNING AND ONE AT THE END OF THE PROJECT.
6. FOR ROAD PROJECTS WITH LENGTH OF 10 KILOMETERS OR MORE, BILLBOARD(S) SHALL ALSO BE INSTALLED AT EVERY 5 KILOMETERS INTERVAL.
7. NAME(S) AND/OR PICTURE(S) OF ANY PERSONAGES SHOULD NOT APPEAR IN THE BILLBOARD.
8. NO POLITICAL BILLBOARDS SHALL BE ALLOWED TO BE INSTALLED 100 METERS BEFORE AND 100 METERS AFTER ALL DPWH PROJECTS AND IN BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT-OF-WAY.
9. DPWH CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS ON THEIR EQUIPMENT OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

REPUBLIC OF THE PHILIPPINES
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COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION) APPROPRIATION: P 10,000,000.00	**PROJECT BILLBOARD**	**MARY HEART NICOLE S. MADROÑAL** ENGINEERING ASSISTANT DATE:	**RAUL L. PRECIADOS** ARCHITECT II DATE:	**NESAH B. DAPAR** OIC- PLANNING AND DESIGN SECTION DATE:	**ROMMEL A. PIAPE** ASSISTANT DISTRICT ENGINEER DATE:	**DOHJIE B. MORALES, MPA** OIC- DISTRICT ENGINEER DATE:	A 2 | 12	2 18

PLANNING AND DESIGN SECTION

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
B.3 (1)	Permits and Clearances	L.s.	1.00	
B.5 (1)	Project Billboard / Signboard	each	2.00	
B.7 (1)	Occupational Safety and Health	L.s.	1.00	
801 (1)	Removal of Structures and Obstruction	L.s.	1.00	
803 (1) a	Structure Excavation(Common Soil)	cu.m	36.54	
804 (1) a	Embankment from Roadway/Structure Excavation(Common Soil)	cu.m	35.62	
804 (2) a	Embankment from Borrow(Common Soil)	cu.m	26.56	
804 (7)	Gravel Fill	cu.m	16.54	
900 (1) c	Structural Concrete(3000 psi,Class A,28 days)	cu.m	58.90	
902 (1) a1	Reinforcing Steel (Deformed)(Grade 40)	kg	3030.71	
902 (1) a2	Reinforcing Steel (Deformed)(Grade 60)	kg	1704.61	
903 (2)	Formworks and Falseworks	sq.m	335.36	
1046 (2) a1	CHB Non-Load Bearing (including Reinforcing Steel)(100 mm,)	sq.m	161.67	
1003 (1) a1	Ceiling(4.5 mm,Metal Frame,Fiber Cement Board)	sq.m	130.50	
1007 (1) b	Aluminum Framed Glass Door(Swing Type)	sq.m	15.44	
1008 (1) c	Aluminum Glass Windows(Awning Type)	sq.m	75.27	
1008 (1) d	Aluminum Glass Windows(Fixed Type)	sq.m	74.01	
1004 (2)	Finishing Hardware	L.s.	1.00	
1010 (1)	Frames(Jambs, Sills, Head, Transoms and Mullions)	Set	1.00	
1010 (2) b	Doors(Wood Panel)	sq.m	1.89	
1051 (8)	Railing	L.s.	1.00	
1027 (1)	Cement Plaster Finish	sq.m	261.92	
1016 (1) a	Waterproofing(Cement-base)	sq.m	130.50	
1018 (2)	Unglazed Tiles	sq.m	261.00	
1032 (1) a	Painting Works(Masonry/Concrete)	sq.m	261.92	
1032 (1) b	Painting Works(Wood)	sq.m	130.50	
1032 (1) c	Painting Works(Steel)	sq.m	157.59	
1014 (1) a2	Pre-painted Metal Sheets(above 0.427 mm,Corrugated,Long Span)	sq.m	24.11	
1013 (2) a	Fabricated Metal Roofing Accessory(Gauge 26 (0.551 mm),Ridge/Hip Rolls)	L.m.	7.24	
1013 (2) b	Fabricated Metal Roofing Accessory(Gauge 26 (0.551 mm),Flashing)	L.m.	6.66	
1038 (1)	Reflective Insulation	sq.m	24.11	
1047 (7)	Structural Steel	L.s.	1.00	
1047 (8) a	Structural Steel(Trusses)	kg	751.21	
1047 (8) b	Structural Steel(Purlins)	kg	176.64	
1047 (4) a	Metal Structure Accessories(Bolts and Rods)	each	56.00	
1047 (4) b	Metal Structure Accessories(Turnbuckle)	each	24.00	
1047 (5) c	Metal Structure Accessories(Cross Bracing)	kg	88.78	
1047 (5) d	Metal Structure Accessories(Steel Plates)	kg	1203.48	
1047 (5) b	Metal Structure Accessories(Sagrods)	kg	31.96	
1001 (9)	Storm Drainage and Downspout	L.s.	1.00	
1100 (10)	Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)	L.s.	1.00	
1101 (33)	Wires and Wiring Devices	L.s.	1.00	
1102 (1)	Panelboard with Main & Branch Breakers	L.s.	1.00	
1103 (1)	Lighting Fixtures	L.s.	1.00	
1102 (16) a1	Generator(single or three phase,Stand-by)	L.s.	1.00	
1200 (13) a	Air Conditioning System(Package/SplitType,)	L.s.	1.00	

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APPROPRIATION: P 10,000,000.00

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ENGINEERING ASSISTANT
DATE:

REVIEWED:
RAUL L. PRECIADOS
ARCHITECT II
DATE:

SUBMITTED:
NESAH B. DAPAR
OIC- PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
ROMMEL A. PIAPE
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
DOHJIE B. MORALES, MPA
OIC- DISTRICT ENGINEER
DATE:

SET NO: A 3 12

SHEET NO: 3 18

PLANNING AND DESIGN SECTION

SCHEDULE OF FINISH

FLOORS:

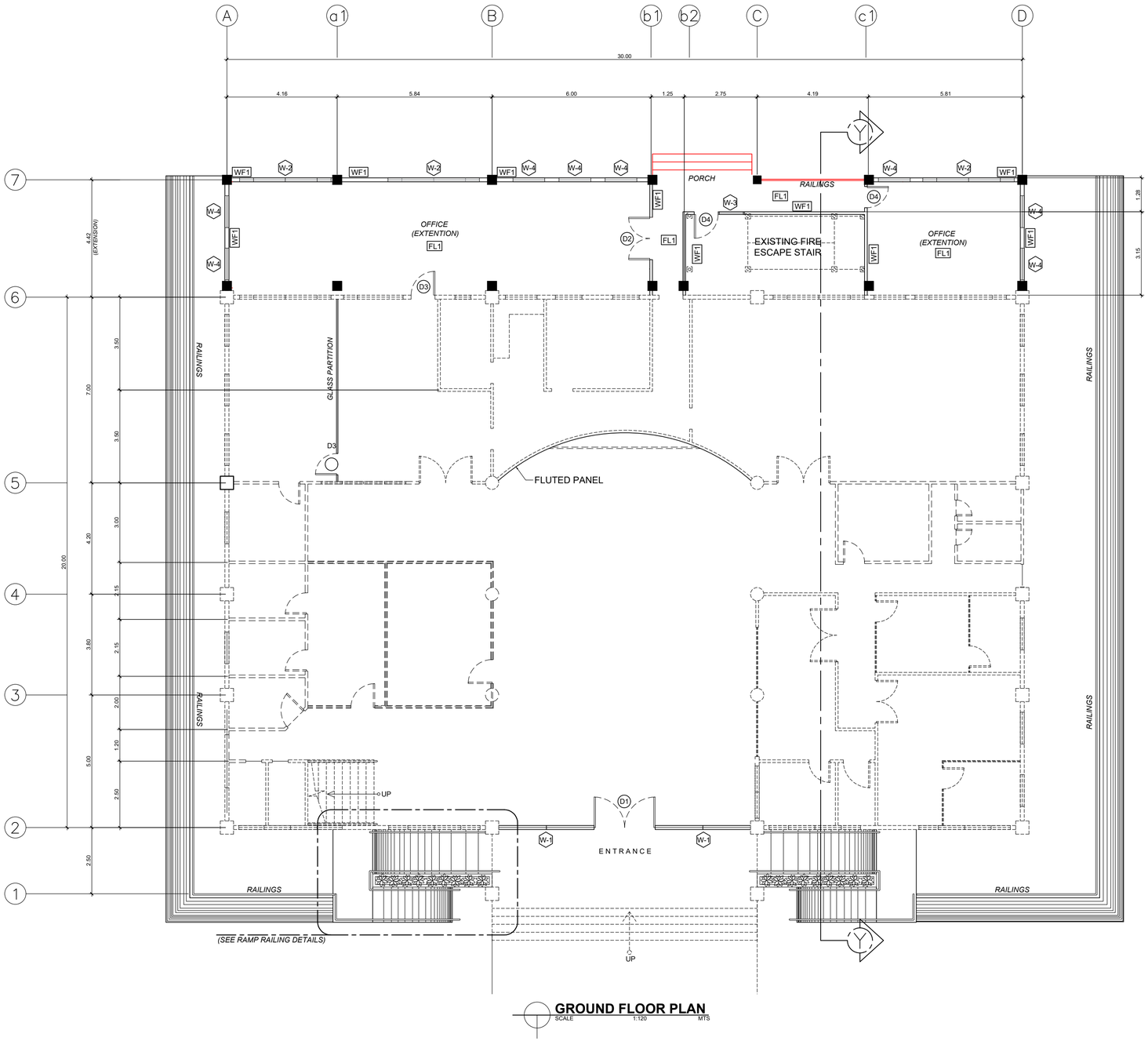
FL1	600 X 600 GRANITE TILES (*GLAZED TILES*)

WALLS:

WF1	100mm THK. CHB W/ PLAIN CEMENT PLASTER (*PAINTED FINISH*)

CEILING FINISHES:

CL1	4.5mm THK. HARDIFLEX CEILING BOARD (*PAINTED*) ON 12mm X 38mm METAL FURRING @600mm O.C. B.W.
CL2	EXPOSED R.C. UNDER SLAB W/ PLAIN CEMENT PLASTER *(PAINTED FINISH)*



GROUND FLOOR PLAN

SCALE 1:120 MTS

REPUBLIC OF THE PHILIPPINES
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PLANNING AND DESIGN SECTION

SCHEDULE OF FINISH

FLOORS:

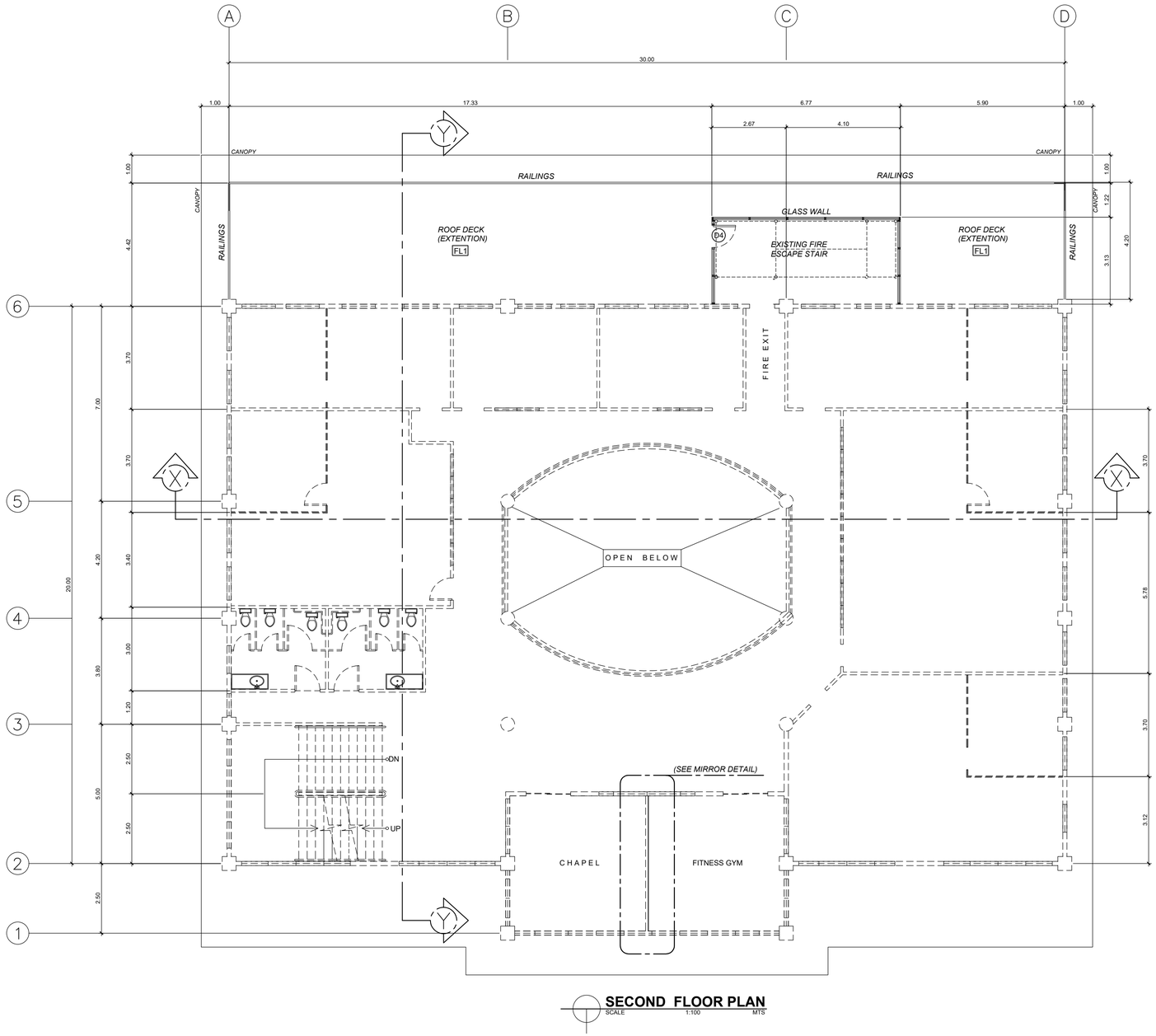
FL1	600 X 600 GRANITE TILES (*GLAZED TILES*)

WALLS:

WF1	100mm THK. CHB W/ PLAIN CEMENT PLASTER (*PAINTED FINISH*)

CEILING FINISHES:

CL1	4.5mm THK. HARDIFLEX CEILING BOARD (*PAINTED*) ON 12mm X 38mm METAL FURRING @600mm O.C. B.W.
CL2	EXPOSED R.C. UNDER SLAB W/ PLAIN CEMENT PLASTER *(PAINTED FINISH)*



SECOND FLOOR PLAN

SCALE 1:100 MTS

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PLANNING AND DESIGN SECTION

FRONT ELEVATION

SCALE 1:100 MTS

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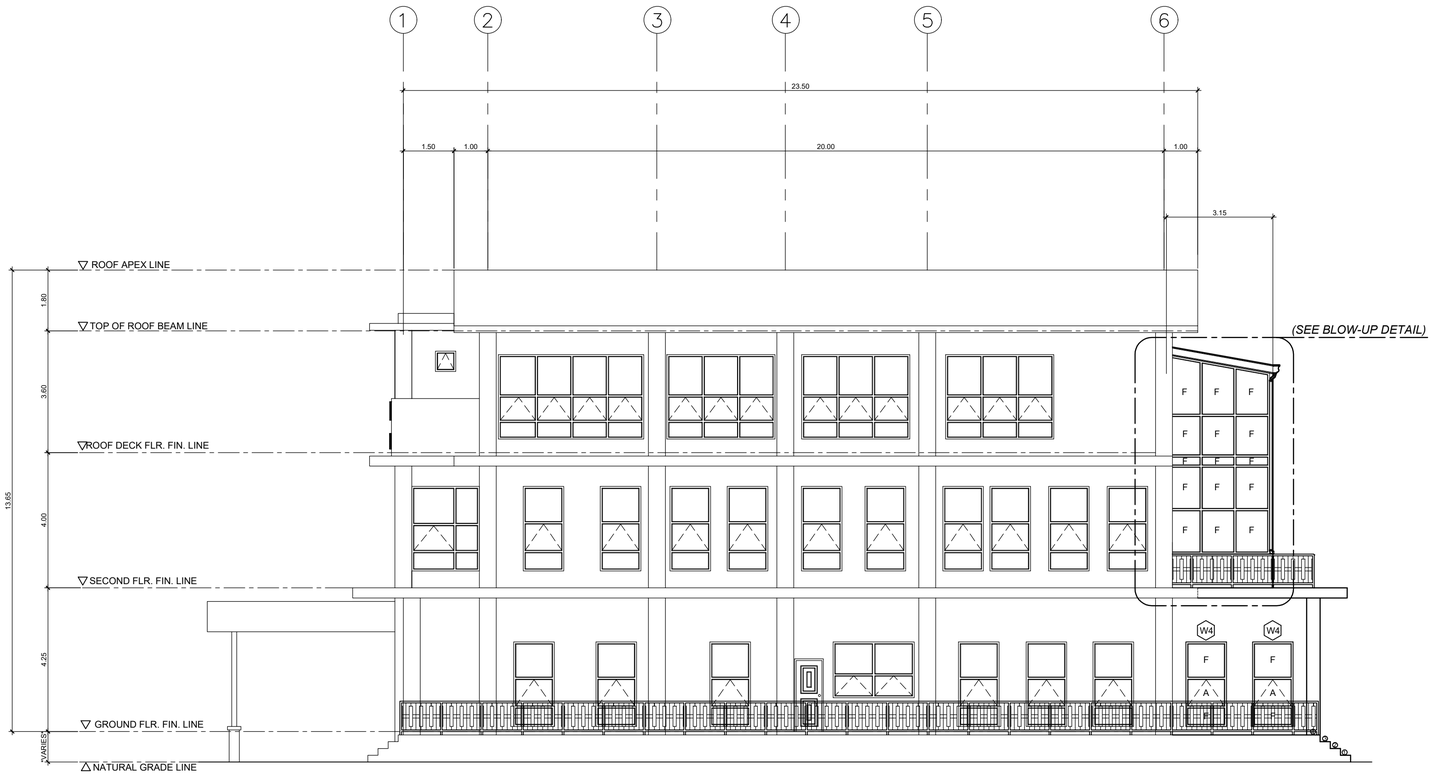
PLANNING AND DESIGN SECTION



RIGHT SIDE ELEVATION

SCALE 1:100 MTS

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PLANNING AND DESIGN SECTION

LEFT SIDE ELEVATION

SCALE 1:100 MTS

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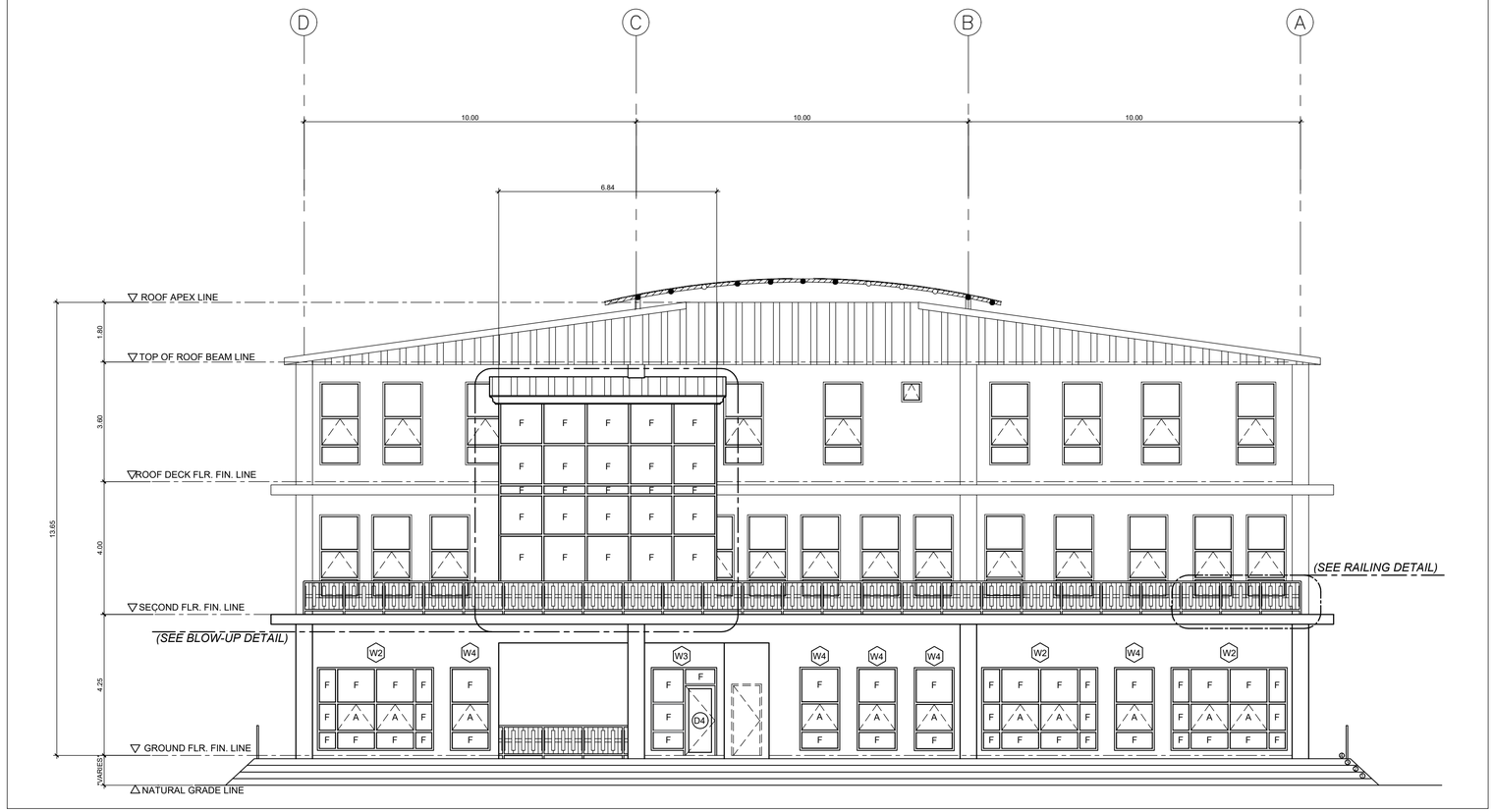
PLANNING AND DESIGN SECTION



REAR ELEVATION
SCALE 1:100 MTS

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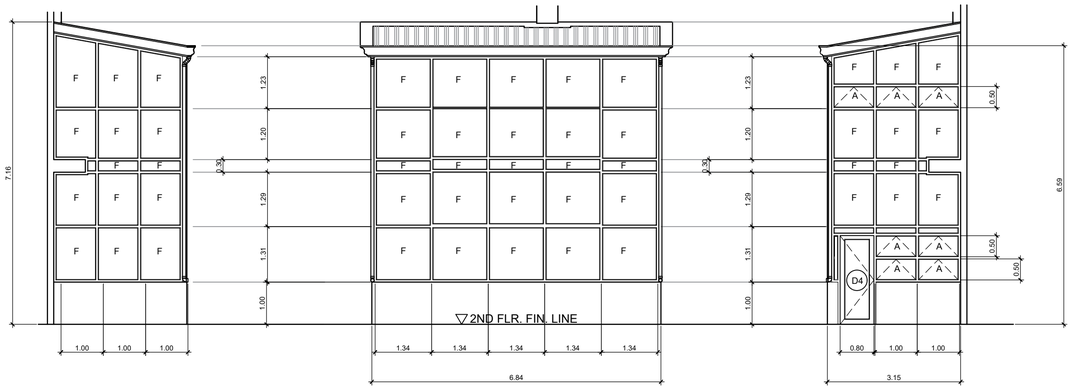
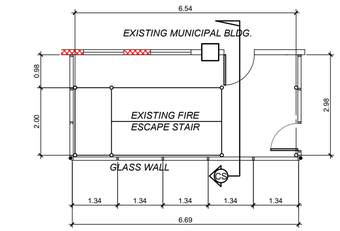
PLANNING AND DESIGN SECTION

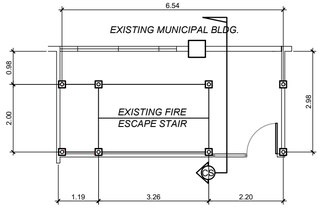


RIGHT SIDE VIEW REAR VIEW LEFT SIDE VIEW

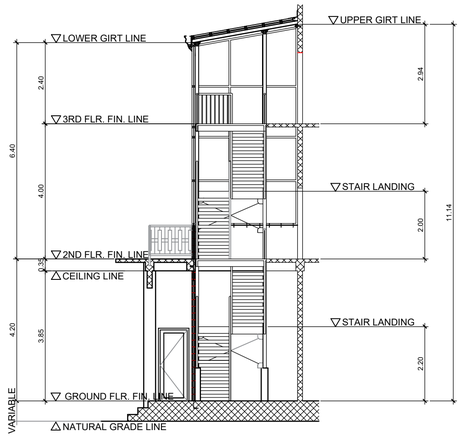
FIRE ESCAPE GLASS WALL DETAIL
SCALE 1:80 MTS



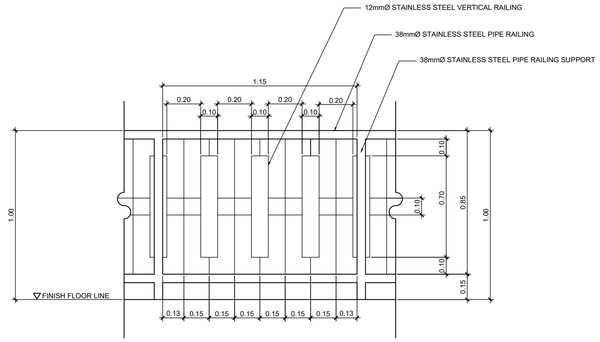
FIRE ESCAPE 2ND FLOOR PLAN
SCALE 1:100 MTS



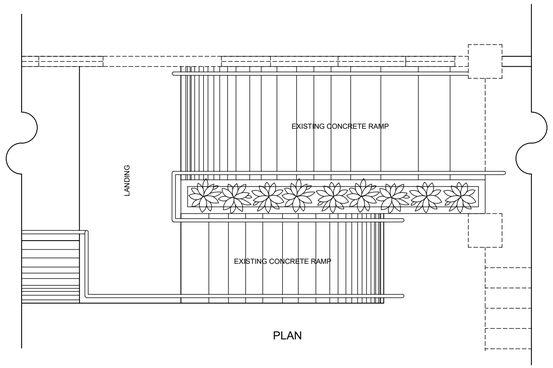
FIRE ESCAPE GROUND FLOOR PLAN
SCALE 1:100 MTS



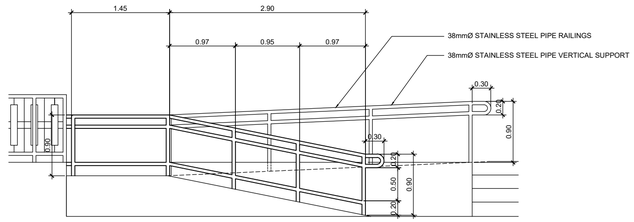
FIRE ESCAPE CROSS SECTION DETAIL
SCALE 1:100 MTS



TYPICAL RAILING DETAIL
SCALE 1:20 MTS



PLAN



SECTION

RAMP RAILING DETAIL
SCALE 1:50 MTS

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SURIGAO CITY

PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED AND PREPARED :	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO:	SHEET NO:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION) APPROPRIATION: P 10,000,000.00	**FIRE ESCAPE PLAN** **FIRE ESCAPE WINDOW DETAIL** **RAMP RAILING DETAIL** **TYPICAL RAILING DETAIL**	**MARY HEART NICOLE S. MADROÑAL** ENGINEERING ASSISTANT DATE:	**RAUL L. PRECIADOS** ARCHITECT II DATE:	**NESAH B. DAPAR** OIC- PLANNING AND DESIGN SECTION DATE:	**ROMMEL A. PIAPE** ASSISTANT DISTRICT ENGINEER DATE:	**DOHJIE B. MORALES, MPA** OIC- DISTRICT ENGINEER DATE:	A 10 12	10 18

PLANNING AND DESIGN SECTION

SCHEDULE OF FINISH

FLOORS:

FL1 — 600 X 600 GRANITE TILES (*GLAZED TILES*)

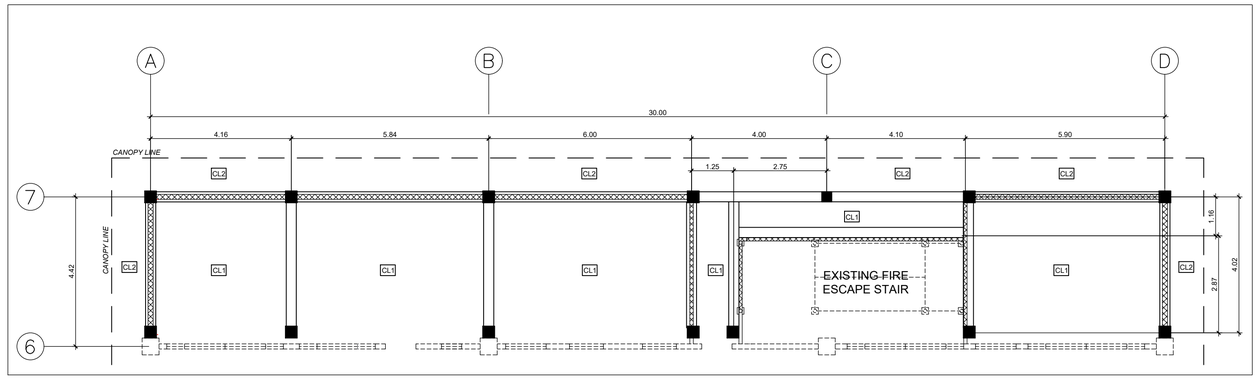
WALLS:

WF1 — 100mm THK. CHB W/ PLAIN CEMENT PLASTER (*PAINTED FINISH*)

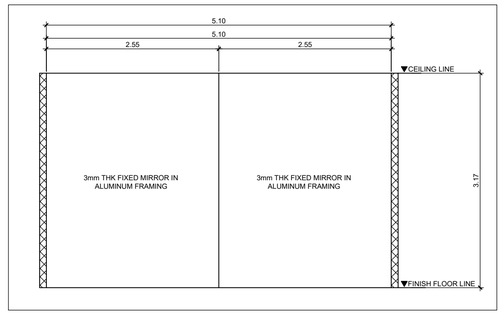
CEILING FINISHES:

CL1 — 4.5mm THK. HARDIFLEX CEILING BOARD (*PAINTED*) ON 12mm X 38mm METAL FURRING @600mm O.C. B.W.

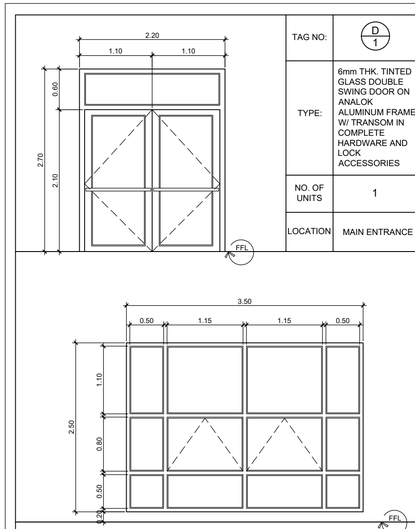
CL2 — EXPOSED R.C. UNDER SLAB W/ PLAIN CEMENT PLASTER *(PAINTED FINISH)*



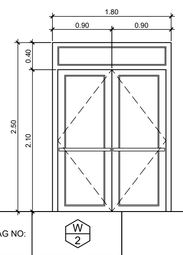
REFLECTED CEILING PLAN
SCALE 1:100 MTS



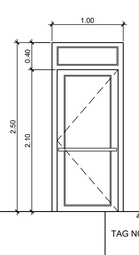
AT FITNESS GYM
MIRROR DETAIL
SCALE 1:50 MTS



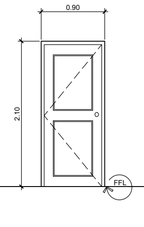
TAG NO:	D 1
TYPE:	6mm THK. TINTED GLASS DOUBLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	1
LOCATION	MAIN ENTRANCE



TAG NO:	D 2
TYPE:	6mm THK. TINTED GLASS DOUBLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	1
LOCATION	OFFICE EXTENSION

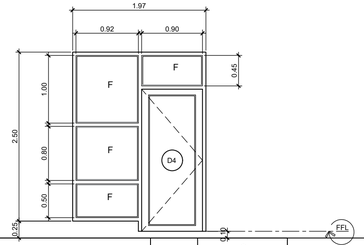


TAG NO:	D 3
TYPE:	6mm THK. TINTED GLASS SINGLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	2
LOCATION	OFFICE EXTENSION

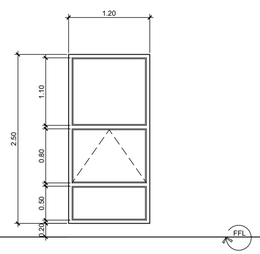


TAG NO:	D 4
TYPE:	45mm THK. HARDWOOD PANEL DOOR ON 50mm X 150mm HARDWOOD JAMB COMPLETE W/ HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	3
LOCATION	FIRE ESCAPE & OFFICE EXTENSION

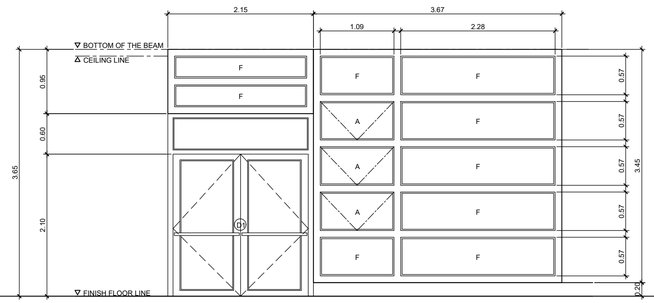
TAG NO:	W 2
TYPE:	6mm THK. TINTED GLASS FIXED/ AWNING WINDOW ON ANALOK ALUMINUM FRAME W/ COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	3
LOCATION	CHAPEL



TAG NO:	W 3
TYPE:	6mm THK. TINTED GLASS FIXED WINDOW ON ANALOK ALUMINUM FRAME W/ COMPLETE HARDWARE AND ACCESSORIES
NO. OF UNITS	1
LOCATION	CHAPEL

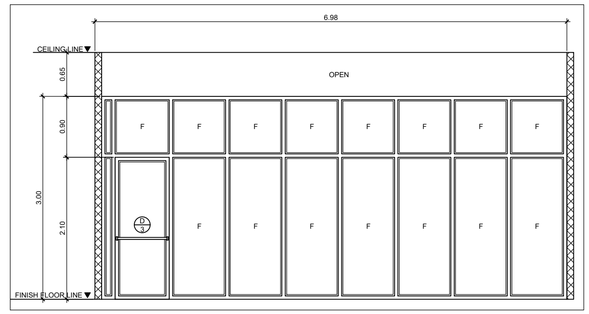


TAG NO:	W 4
TYPE:	6mm THK. TINTED GLASS FIXED/ AWNING WINDOW ON ANALOK ALUMINUM FRAME W/ COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	9
LOCATION	EXTERIOR WALL



TAG NO:	W 1
TYPE:	6mm THK. TINTED GLASS FIXED/ AWNING WINDOW ON 4mmTHK x 50mm x 100mm ALUMINUM FRAME W/ COMPLETE HARDWARE AND ACCESSORIES
NO. OF UNITS	2
LOCATION	ENTRANCE

SCHEDULE OF DOORS & WINDOWS
SCALE 1:50 MTS



PARTITION DETAIL
SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING
BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE

SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION)
APPROPRIATION: P 10,000,000.00

SHEET CONTENTS:
REFLECTED CEILING PLAN
SCHEDULE OF DOORS & WINDOWS
PARTITION DETAIL
MIRROR DETAIL AT FITNESS GYM

DRAFTED AND PREPARED :
MARY HEART NICOLE S. MADROÑAL
ENGINEERING ASSISTANT
DATE:

REVIEWED:
RAUL L. PRECIADOS
ARCHITECT II
DATE:

SUBMITTED:
NESAH B. DAPAR
OIC- PLANNING AND DESIGN SECTION
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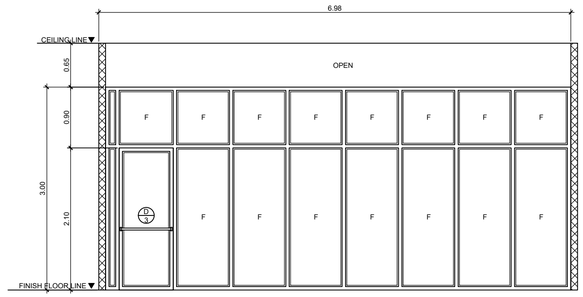
ROMMEL A. PIAPE
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
DOHJIE B. MORALES, MPA
OIC- DISTRICT ENGINEER
DATE:

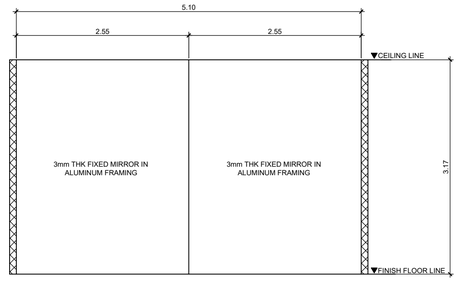
SET NO: A — 11 | 12

SHEET NO: 11 — 18

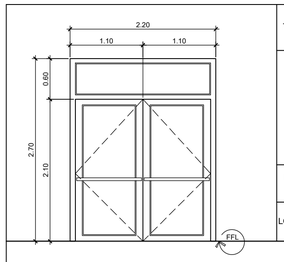
PLANNING AND DESIGN SECTION



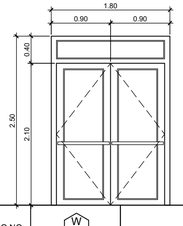
GLASS PARTITION DETAIL
SCALE 1:50 MTS



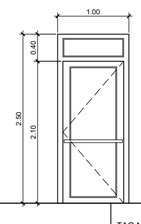
AT FITNESS GYM
MIRROR WALL DETAIL
SCALE 1:50 MTS



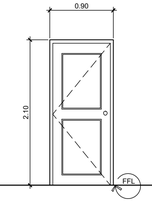
TAG NO:	D 1
TYPE:	6mm THK. TINTED GLASS DOUBLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	1
LOCATION	MAIN ENTRANCE



TAG NO:	D 2
TYPE:	6mm THK. TINTED GLASS DOUBLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	1
LOCATION	OFFICE EXTENSION



TAG NO:	D 3
TYPE:	6mm THK. TINTED GLASS SINGLE SWING DOOR ON ANALOK ALUMINUM FRAME W/ TRANSOM IN COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	2
LOCATION	OFFICE EXTENSION



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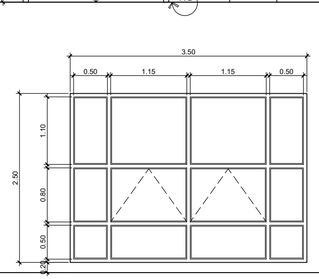
NO. OF UNITS	3
LOCATION	FIRE ESCAPE & OFFICE EXTENSION



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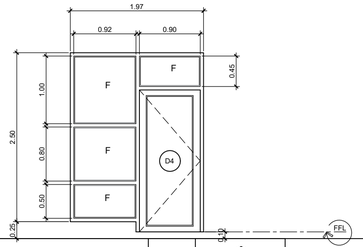
NO. OF UNITS	3
LOCATION	CHAPEL



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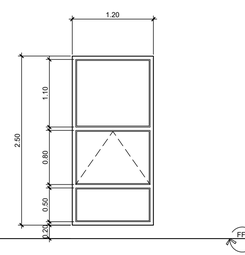
TYPE:	6mm THK. TINTED GLASS FIXED WINDOW ON ANALOK ALUMINUM FRAME W/ COMPLETE HARDWARE AND ACCESSORIES
NO. OF UNITS	1
LOCATION	CHAPEL



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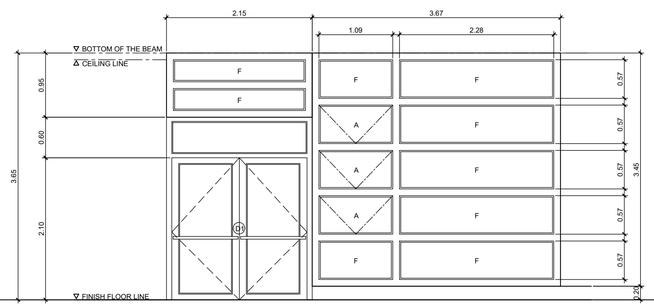
TYPE:	6mm THK. TINTED GLASS FIXED/ AWNING WINDOW ON ANALOK ALUMINUM FRAME W/ COMPLETE HARDWARE AND LOCK ACCESSORIES
NO. OF UNITS	9
LOCATION	EXTERIOR WALL



TAG NO:	W 1
TYPE:	6mm THK. TINTED GLASS FIXED/ AWNING WINDOW ON 4mmTHK x 50mm x 100mm ALUMINUM FRAME W/ COMPLETE HARDWARE AND ACCESSORIES
NO. OF UNITS	2
LOCATION	ENTRANCE

SCHEDULE OF DOORS & WINDOWS
SCALE 1:50 MTS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING
BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE
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APPROPRIATION: P 10,000,000.00

SHEET CONTENTS:
SCHEDULE OF DOORS & WINDOWS
GLASS PARTITION DETAIL
MIRROR WALL DETAIL

DRAFTED AND PREPARED :
MARY HEART NICOLE S. MADROÑAL
ENGINEERING ASSISTANT
DATE:

REVIEWED:
RAUL L. PRECIADOS
ARCHITECT II
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NESAH B. DAPAR
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ROMMEL A. PIAPE
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
DOHJIE B. MORALES, MPA
OIC- DISTRICT ENGINEER
DATE:

SET NO: A — 12 | 12

SHEET NO: 12 / 18

PLANNING AND DESIGN SECTION

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN FABRICATION AND CONSTRUCTION OF THE PROJECT.

1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (N.S.C.P 2015) VOL. 1, SEVENTH EDITION.

1.2 DPWH STANDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES (BUILDINGS, PORTS AND HARBORS, FLOOD CONTROL AND DRAINAGE STRUCTURES AND WATER SUPPLY SYSTEMS), VOLUME III, 2019 EDITION.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	23.56 kN/m^3
STEEL	76.93 kN/m^3
150 mm THK. CHB WALL	2.73 kPa
100 mm THK. CHB WALL	2.11 kPa

B. LIVE LOAD

ROOF	1.00 kPa
OFFICE	2.40 kPa
TOILETS	1.90 kPa
CORRIDORS ABOVE, STAIRS	3.80 kPa
CORRIDORS ON GROUND	4.80 kPa

C. WIND LOAD

BUILDING CATEGORY = 1 (ESSENTIAL FACILITIES)

	OPTION 1
EXPOSURE CAT.	B (URBAN OR SUBURBAN AREAS WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS)
WIND VELOCITY	V=300 KPH
ENCLOSURE CLASS.	ENCLOSED LOW-RISE BUILDING

P = qh [(GCpf)-(GCpi)] (DESIGN WIND PRESSURE)

WHERE: qh = VELOCITY PRESSURE (kPa)

GCpf = EXTERNAL PRESSURE COFFECIENT

GCpf = INTERNAL PRESSURE COFFECIENT

D. SEISMIC LOAD

$V = \frac{Cv\,I\,W}{RT}$ (DESIGN BASE SHEAR)

$Vmax = \frac{2.50Ca}{RT} W$ $\quad Vmin = 0.11\ CaIW$

$Vmin = \frac{0.80\ ZNvI}{R} W$ (ZONE 4)

WHERE: W = TOTAL DEAD LOAD

T = NATURAL PERIOD = Ct (h)

WHERE: C = NUMERICAL COEFFICIENT

h = BUILDING HEIGHT

I = IMPORTANCE FACTOR = 1.00

R = NUMERICAL FACTOR = 8.50

SEISMIC COEFFICIENT Cv = 0.64 Nv

Ca = 0.44 Nv

NEAR SOURCE FACTOR (5 km) Nv = 1.0

Na = 1.0

Z = SEISMIC ZONE = 0.40 (ZONE 4)

S = SOIL TYPE = SD (ASSUMED)

DAMPING RATIO = 5%

2.2 DESIGN STRESSES

A. CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS:

a. FOOTINGS, COLUMNS, BEAMS AND SLABS	f'c = 21.0 MPa (3,000 psi)
b. SLAB ON FILL	f'c = 17.5 MPa (2,500 psi)
C. SLAB	f'c = 21.0 MPa (3,000 psi)
B. REINFORCING STEEL BARS	
a. FOR BARS 10mm AND GREATER (STRUCTURAL GRADE DEFORMED BAR)	fy = 275 MPa (40,000 psi)
C. STRUCTURAL STEEL ASTM-A36	
FOR TRUSSES, BRACINGS , & STRUTS	fy = 248 MPa (36,000 psi)
D. PURLINS	
COLD FORMED LIGHT	fy = 248 MPa (36,000 psi)
E. MASONRY UNIT (CHB)	
NON - LOADING BEARING CHB WALLS	fm' = 3.45 MPa (500 psi)
F. WELDS	E - 60XX ELECTRODE
G. STRUCTURAL BOLTS ASTM- A307	a. Ft = 96.60 mPa (14, 000 psi)
	b. Fv= 69.00 mPa (10, 000 psi)

3.0 IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN. DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTIONS PURPOSES

4.0 IN REFERENCES TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS , OPENINGS IN THE WALLS AND SLABS , INTERIOR PARTITIONS , LOCATIONS OF DRAINS ETC.

5.0 IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTORS SHALL NOTIFY BOTH THE

LOAD COMBINATION

STRENGTH DESIGN

1.4DL

1.2DL + 1.6LL + 0.5LLR

1.2DL + 1.6LLR + f_1LL

1.2DL + 1.0W + f_1LL + 0.5LLR

1.2DL + 1.0E + f_1LL

0.9DL + 1.0W + 1.6H

0.9DL + 1.0E + 1.6H

ALLOWABLE STRESS DESIGN

D+F

D+H+F+L+T

D+H+F+LLR

D+H+F+0.75LL+0.75TLLR

D+H+F+0.6W

SEISMIC LOAD COMBINATION

1.2DL + f_1LL + 1.0E_m

0.9DI + 1.0E_m

6.0 ALL CONCRETE WORKS AND CONCRETE REINFORCEMENTS SHALL BE DONE IN ACCORDANCE WITH THE ACI.318-14M BUILDING CODE REQUIREMENT AND ALL STRUCTURAL STEEL WORKS ACCORDING WITH THE WITH THE AISC-05 IN SOFAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.

7.0 ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC REFERS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM REFERS TO AMERICAN SOCIETY FOR TESTING MATERIALS.

8.0 CONSTURCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.

9.0 SHOP DRAWING WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.

10. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEUOS CURBS, SILLS , STOOLS EQUIPMENT AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL , ELECTRICAL AND MECHANICAL DRAWINGS.

11. ALL RESULTS OF THE MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE MATERIALS ENGINEER/STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

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

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS	3000 PSI (21.0 MPa)	20 mm	100mm
COLUMNS	3000 PSI (21.0 MPa)	20 mm	100mm
BEAMS	3000 PSI (21.0 MPa)	20 mm	100mm
SLAB ON FILL	3000 PSI (21.0 MPa)	20 mm	100mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE THE GRADE	25mm
BEAM STIRRUPS AND COLUMN TIES WHERE CONCRETE IS EXPOSED TO	40mm
EARTH BUT POURED AGAINST FORMS WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	50mm
	75mm

3. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSISITON WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES , BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUIGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.

4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING DESIGNER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

5. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

6. ALL CONCRETE SHALL BE KEPT MOST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE O WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

7. STRIPPING OF FORMS AND SHORES:

FOUNDATION	24 HOURS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.

9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

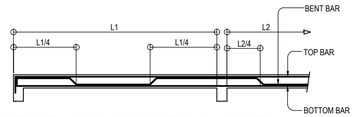
1. FOOTINGS ARE DESIGNED FOR AN ALLOWANCE SOIL BEARING PRESSURE OF 96 KPa (2000psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING ,THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.
4. IN CASES WHERE THE SOIL CONDITION IS SUCH THAT THE MINIMUM ALLOWABLE SOIL PRESSURE OF 96KPa (2000 psf) CAN NOT BE ATTAINED AT A PRACTICAL DEPTHS THE USE OF MICROPILES , BORED PILES, OR DRIVEN PILES MAY BE ADOPTED IN LIEU OF STANDARD ISOLATED FOOTINGS.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   - A. FOOTINGS , FOOTING BEAMS AND GIRDERS — fy = 275 MPa (40,000 psi)
   - B. COLUMNS AND SHEAR WALLS — fy = 275 MPa (40,000 psi)
   - C. BEAMS AND GIRDER — fy = 275 MPa (40,000 psi)
   - D. NON-LOAD BEARING WALL PARTITIONS ,BEDDED SLABS , FLOOR & ROOF SLABS, PARAPETS ,CATCH BASIN,SIDE WALK — fy = 275 MPa (40,000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH THE ASTM A-706 BARS SMALLER THAN 10mm MAY BE PLAIN.
3. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE w/ TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWNON DRAWINGS , SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

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

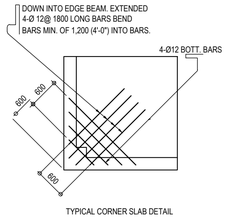


3. IF SLABS AR E REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONE THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF ($1\frac{1}{2}$) SLAB THICKNESS.
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 X GROSS-SECTIONAL AREA (Ag) OF THE SLAB. (SEE SCHEDULE BELOW)

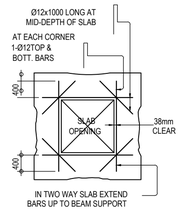
SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
	MINIMUM TEMPERATURE BARS
100 mm	10mmØ @ 250mm EACH WAY
125 mm	10mmØ @ 250mm EACH WAY
150 mm	10mmØ @ 250mm EACH WAY
175 mm	10mmØ @ 250mm EACH WAY
200 mm	10mmØ @ 250mm EACH WAY

UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHAL BE REINFORCED WITH 10mmØ AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART.

6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOES EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENT BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.



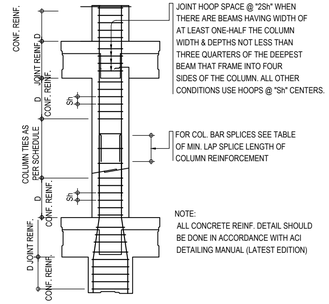
TYPICAL CORNER SLAB DETAIL



IN TWO WAY SLAB EXTEND BARS UP TO BEAM SUPPORT

OMIT TRIMMER BARS WHERE OPENING IS FRAMED BY BEAM

TYPICAL SLAB OPENING DET.

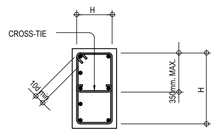


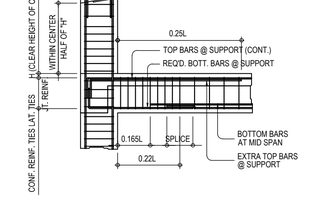
TYPICAL COLUMN ELEV. SHOWING

DOWELS AND TIES SPACING

NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100 O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WIT HTHE CORE WITH A MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE ,VERTICAL REINFORCEMENT SHALL BE OFFSET AT A SLOPE MONOLITHICALLY WITH THE CORE WITH MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE COARSE AGGREGATE IN MILLIMETERS
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL 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.





TYP. DETAIL OF COL. LAP SPLICE

& EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS & GIRDERS

1. UNLESS, OTHERWISE NOTED IN PLANS , CAMBER ALL BEAMS AND GIRDER AT LEAST 6mmØ 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 20 mm FOR EVERY 3.0 M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1

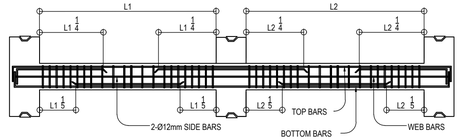


FIGURE B-1

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:

COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING

BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE

SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION)
APPROPRIATION: P 10,000,000.00

SHEET CONTENTS:

FOUNDATION PLAN
F-1, C-1 DETAIL
F-2 DETAIL
F-3 DETAIL
TYPICAL REBAR SPLICING ON COLUMN
TYPICAL SLAB DETAIL
TYPICAL SLAB ON FILL DETAIL

DRAFTED AND PREPARED :	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
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ENGINEERING ASSISTANT	ENGINEER II	OIC- PLANNING AND DESIGN SECTION	ASSISTANT DISTRICT ENGINEER	OIC- DISTRICT ENGINEER
DATE:	DATE:	DATE:	DATE:	DATE:

SET NO: S 1 5

SHEET NO: 13 18

PLANNING AND DESIGN SECTION

GENERAL CONSTRUCTION NOTES

TABLE 'A'
TENSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	300	300	300	300
12mm ø	300	300	300	300
16mm ø	300	400	300	400
20mm ø	400	550	350	500
25mm ø	600	800	550	750
28mm ø	750	1000	650	850
32mm ø	950	1300	850	1100

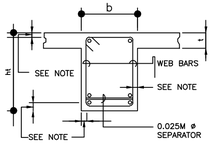
NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

TABLE 'B'
COMPRESSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	225	300	200	300
12mm ø	275	300	250	300
16mm ø	350	400	325	400
20mm ø	450	500	475	500
25mm ø	550	625	550	625
28mm ø	625	675	625	675
32mm ø	700	775	700	775

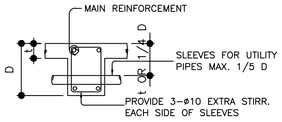
NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmø BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. 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

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

NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. 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.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4–12mm WITH 6mmø 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.

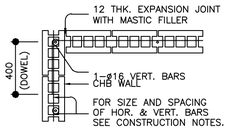
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG 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
125 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	
150 mm	10mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	
200 mm	12mmø @ EVERY 3RD LEVEL	10mmø @ 600mm O.C.	

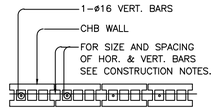
REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

LINTELS IN BLOCK WALLS

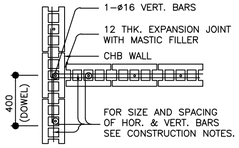
CLEAR SPAN ("L")	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M	1.60M	14.0	200	1–ø10	1–ø10	ø6mm @ 200mm
150M	1.90M		200	1–ø10	1–ø10	ø6mm @ 200mm
1.80M	2.20M		200	1–ø12	1–ø10	ø6mm @ 200mm
2.10M	2.50M	17.0	250	1–ø12	1–ø10	ø6mm @ 200mm
2.40M	2.90M		250	1–ø12	1–ø10	ø6mm @ 200mm
2.70M	3.10M		250	1–ø16	1–ø12	ø10mm @ 200mm
3.00	3.40M	20.0	300	1–ø16	1–ø12	ø10mm @ 200mm
3.30	3.70M		300	1–ø16	1–ø12	ø10mm @ 200mm
3.60	4.00		300	1–ø20	1–ø12	ø10mm @ 200mm



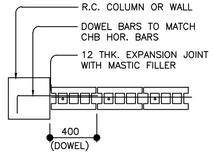
CORNER WALL



OPENING OR END WALL

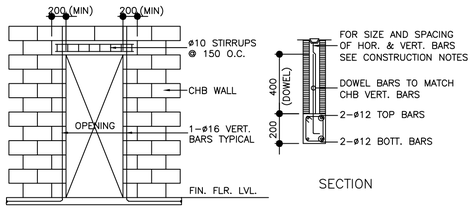


INTERSECTION WALL



INTERSECTING R.C. COL. OR WALL

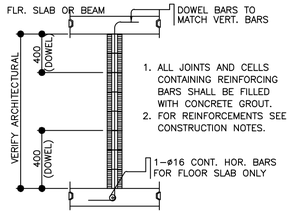
TYPICAL CONNECTION DETAIL OF MASONRY WALL



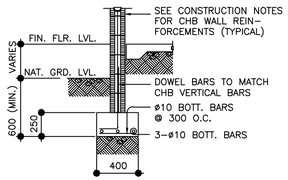
ELEVATION

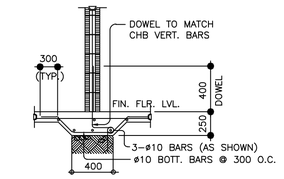
SECTION

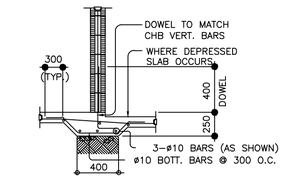
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS

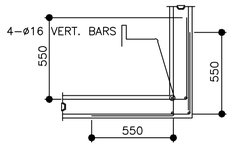


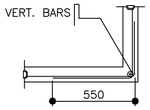




TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)

TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS





NOTES ON WELDS

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

NOTES ON STRUCTURAL STEEL

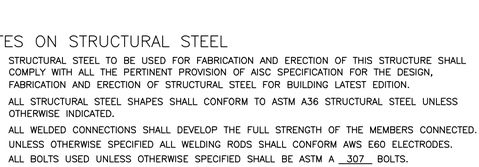
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL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

NOTES ON EMBEDED PIPES

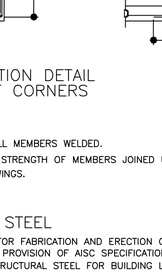
A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDED IN COLUMNS.

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

1. 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.



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

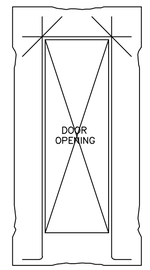
NOTES ON CONCRETE WALLS

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

WALL THICKNESS	REINFORCEMENT			VERTICAL SECTION
	HORIZONTAL	VERTICAL	REMARKS	
100mm	ø10mm @ 250mm O.C.	ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VERT. BARS / HORIZ. BARS
125mm	ø10mm @ 200mm O.C.	ø10mm @ 250mm O.C.		
150mm	ø12mm @ 250mm O.C.	ø12mm @ 300mm O.C.		

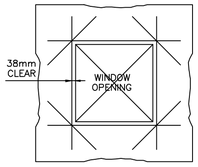
REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

2. 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.
3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2–20mmø BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2–16mmø, FOR 125mm AND 100mm WALLS, USE 2–12mmø 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)



NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING

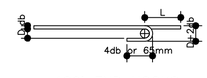
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.



TYP. EXTERIOR WINDOW & DOOR OPENING

NOTES OF STIRRUPS

1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.

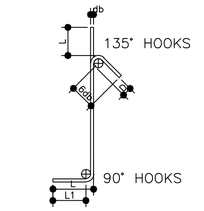


180° END HOOKS

90° END HOOKS

MAIN BAR END HOOKS (ALL GRADES)

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



STIRRUP AND TIE HOOKS (ALL GRADES)

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

REPUBLIC OF THE PHILIPPINES
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REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING
BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE
SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION)
APPROPRIATION: P 10,000,000.00

SHEET CONTENTS:
FOUNDATION PLAN
F-1, C-1 DETAIL
F-2 DETAIL
F-3 DETAIL
TYPICAL REBAR SPLICING ON COLUMN
TYPICAL SLAB DETAIL
TYPICAL SLAB ON FILL DETAIL

DRAFTED AND PREPARED :
MARY HEART NICOLE S. MADROÑAL
ENGINEERING ASSISTANT
DATE:

REVIEWED:
FRANK ELBERT E. GULFO
ENGINEER II
DATE:

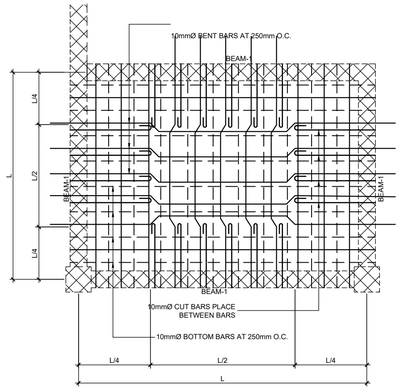
SUBMITTED:
NESAH B. DAPAR
OIC- PLANNING AND DESIGN SECTION
DATE:

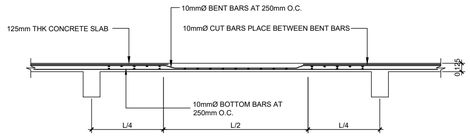
RECOMMENDED:
ROMMEL A. PIAPE
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
DOHJIE B. MORALES, MPA
OIC- DISTRICT ENGINEER
DATE:

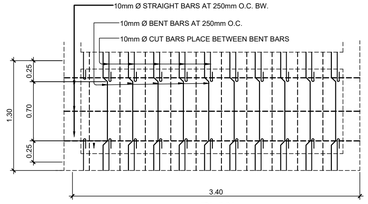
SET NO: S 2 5
SHEET NO: 14 18

PLANNING AND DESIGN SECTION

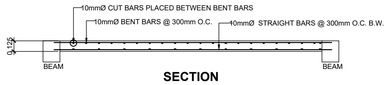




TYPICAL SLAB-1 DETAIL
SCALE 1:40 MTS

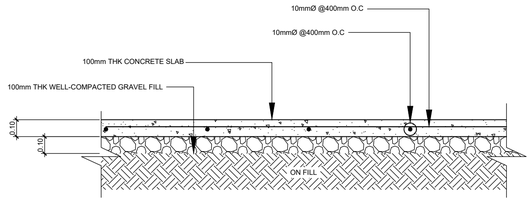


PLAN

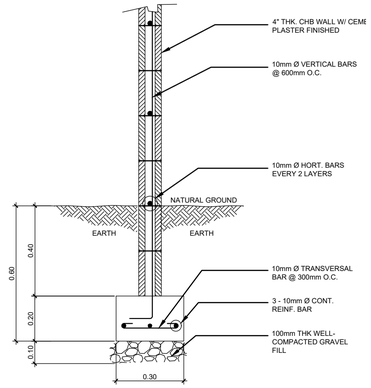


SECTION

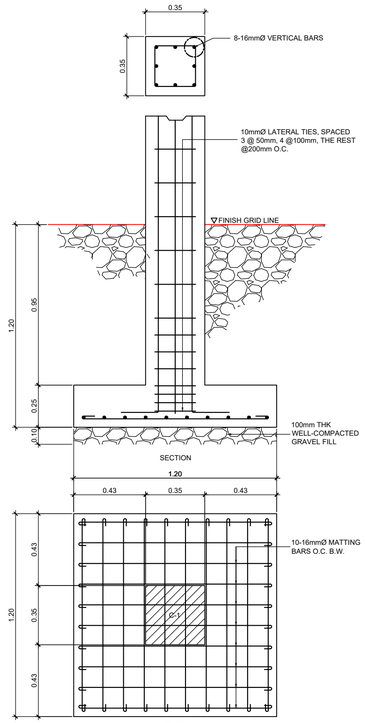
TYPICAL SLAB-2 DETAIL
SCALE 1:40 MTS



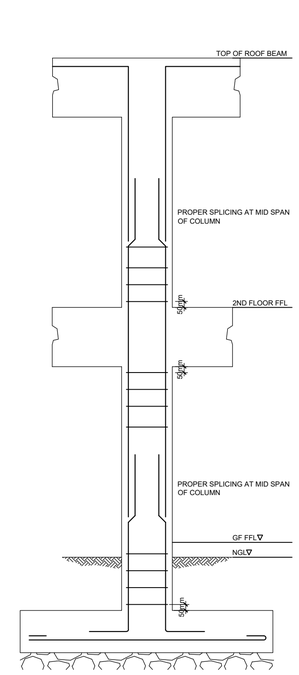
TYPICAL SLAB ON FILL DETAIL
SCALE 1:20 MTS



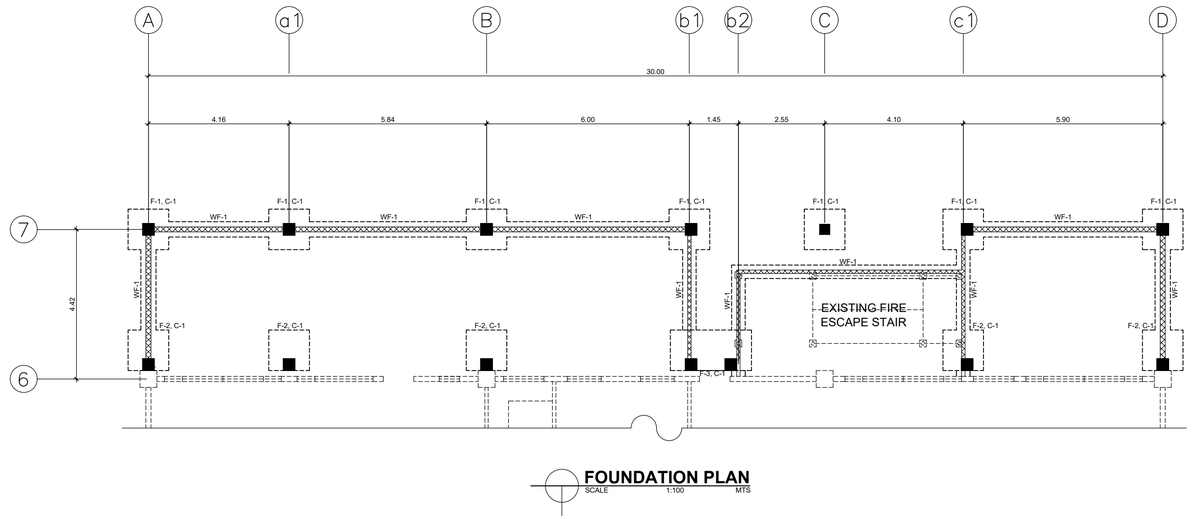
WALL FOOTING (WF-1) DETAIL
SCALE 1:15 MTS



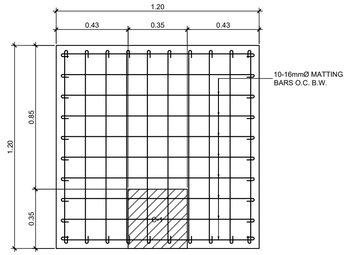
F-1, C-1 DETAIL
SCALE 1:20 MTS



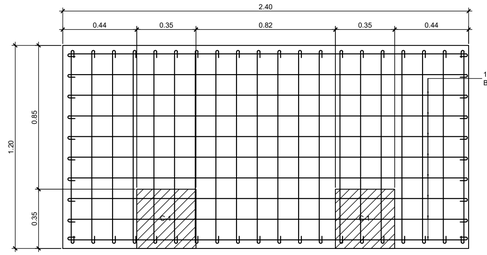
TYPICAL REBAR SPLICING ON COLUMN
NOT TO SCALE



FOUNDATION PLAN
SCALE 1:100 MTS



F-2, DETAIL
SCALE 1:20 MTS



F-3, DETAIL
SCALE 1:20 MTS

REPUBLIC OF THE PHILIPPINES
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BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE

SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION)
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NESAH B. DAPAR
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DOHJIE B. MORALES, MPA
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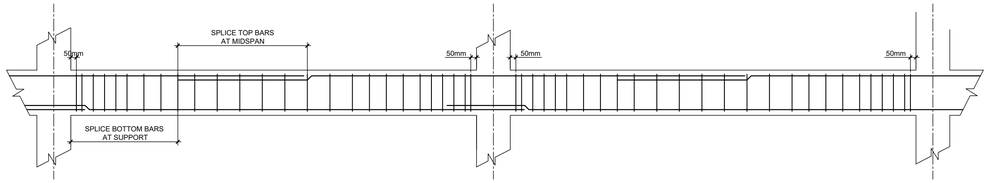
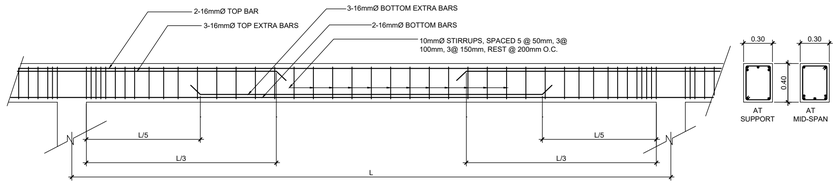
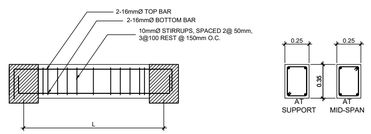
PLANNING AND DESIGN SECTION



TYPICAL REBAR SPLICING ON BEAMS
NOT TO SCALE



BEAM-1 DETAIL
SCALE 1:100 MTS



BEAM-2 DETAIL
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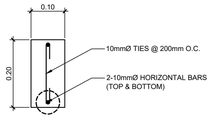
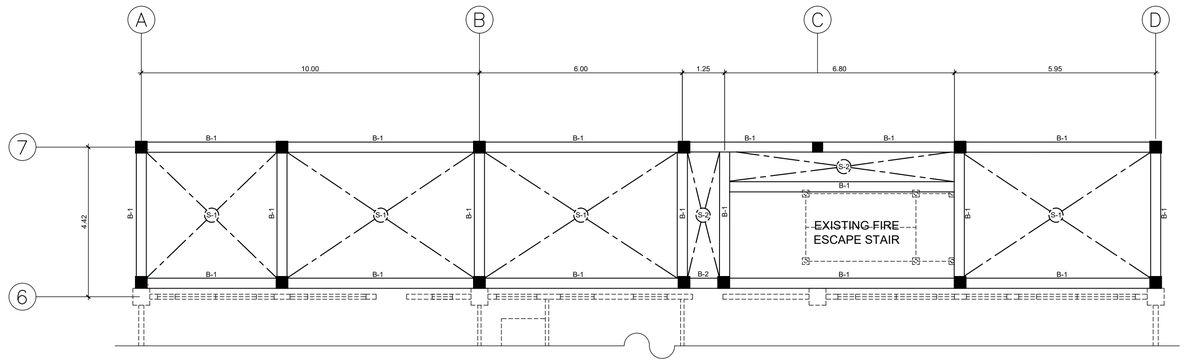
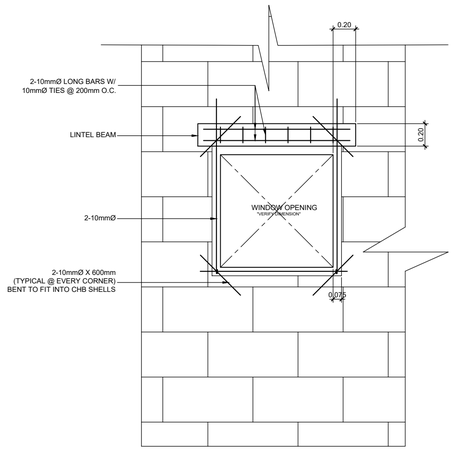
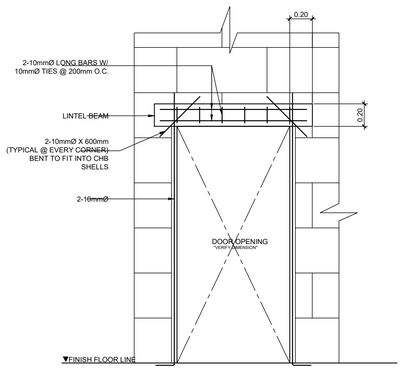


LINTEL BEAM DETAIL
SCALE 1:10 MTS



SECOND FLOOR FRAMING PLAN
SCALE 1:100 MTS





DOOR & WINDOW OPENING DETAIL
SCALE 1:30 MTS

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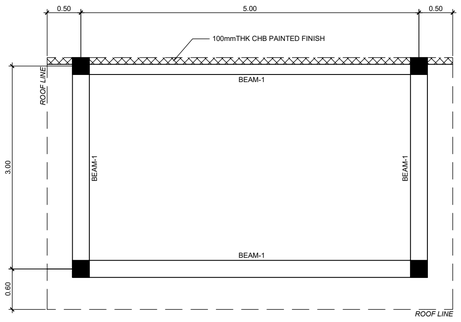
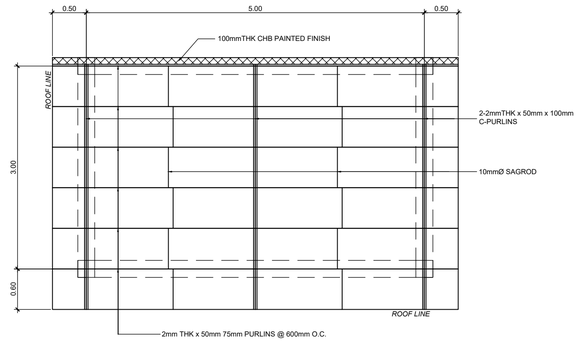
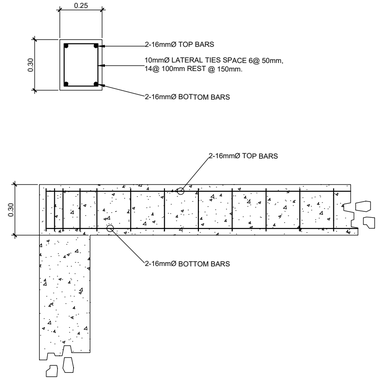
PLANNING AND DESIGN SECTION



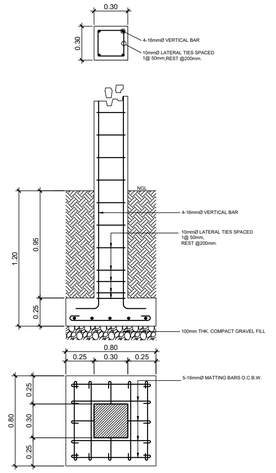
FRAMING PLAN
SCALE 1:50 MTS



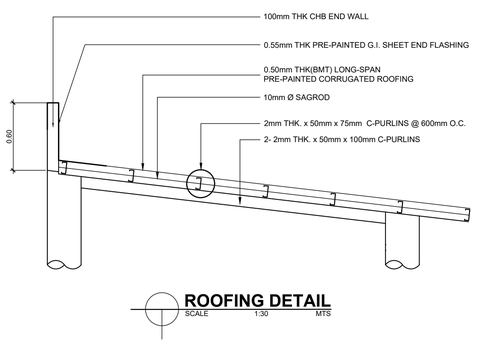
ROOF FRAMING PLAN
SCALE 1:50 MTS



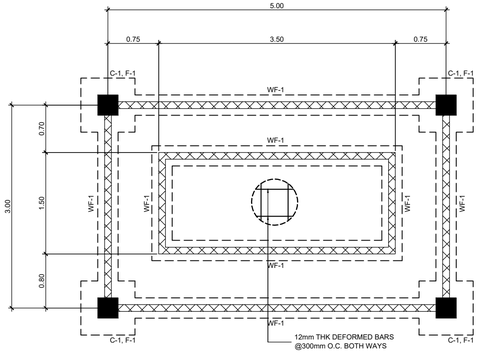
BEAM-1 DETAIL
SCALE 1:20 MTS



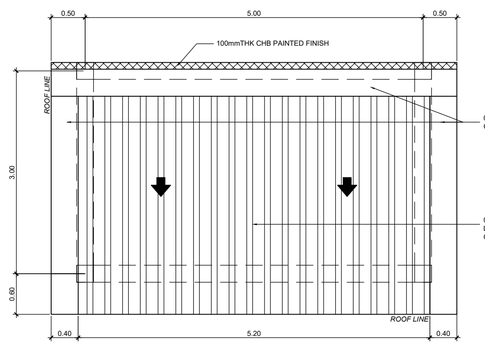
F-1, C-1 DETAIL
SCALE 1:30 MTS



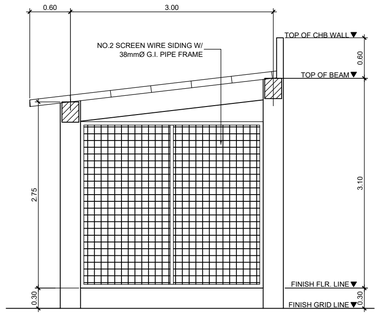
ROOFING DETAIL
SCALE 1:30 MTS



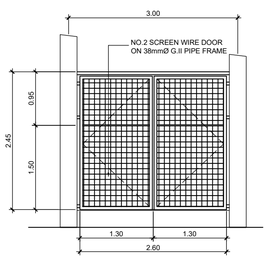
FOUNDATION PLAN
SCALE 1:50 MTS



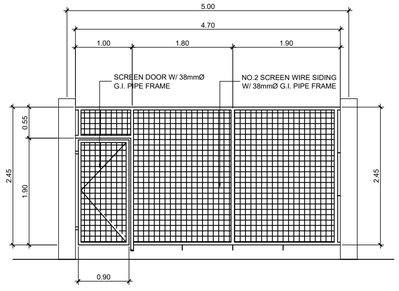
ROOF PLAN
SCALE 1:50 MTS



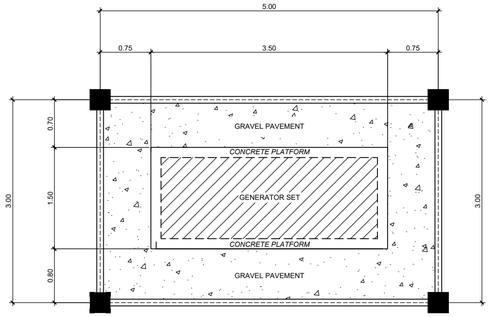
RIGHT SIDE ELEVATION
SCALE 1:50 MTS



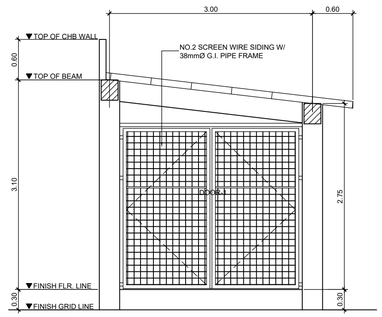
DOOR-1 DETAIL
SCALE 1:60 MTS



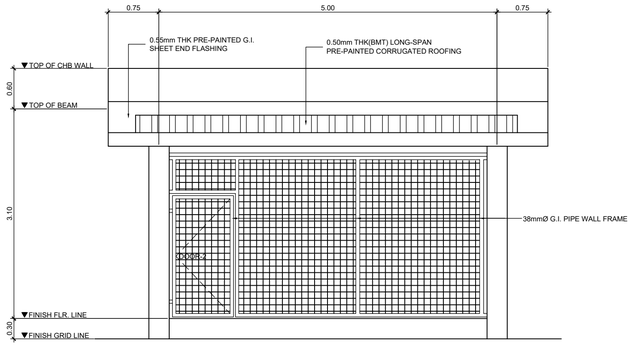
DOOR-2 DETAIL
SCALE 1:60 MTS



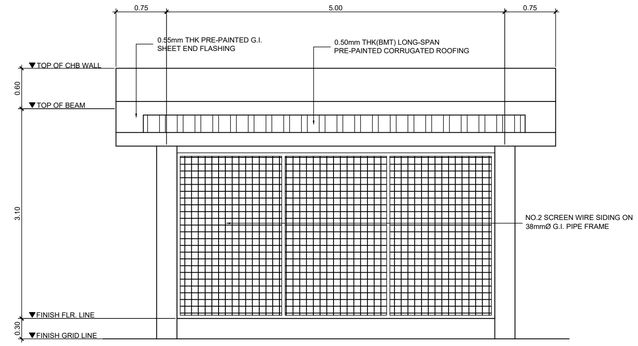
FLOOR PLAN
SCALE 1:50 MTS



LEFT SIDE ELEVATION
SCALE 1:50 MTS



FRONT ELEVATION
SCALE 1:50 MTS



REAR ELEVATION
SCALE 1:50 MTS

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PLANNING AND DESIGN SECTION

GENERAL NOTES:

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THIS PLAN AND SPECIFICATION. THE APPLICABLE PROVISIONS OF THE .LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC).THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND REQUIREMENTS OF THE LOCAL POWER COMPANY. ALL ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER

2. THE ELECTRICAL SERVICE POWER IS I-PHASE,2-WIRE,230 V AC, 60 HZ.

3. WIRING METHOD SHALL BE AS FOLLOWS
   A. FEEDERS AND RISERS - RIGID METALLIC CONDUIT
   B. LIGHTING,POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT.,& AUXILIARY SCH.40

4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER OF LIGHTING. CIRCUIT HOMERUN SHALL BE 3.5MM² AND INSULATED FOR 600 V. SMALLEST RACEWAY SHALL BE 15mmØ TRADE AND NOMINAL SIZE.

5. ALL OUTLET BOXES SHALL BE GALVANIZED GAUGE NO. 16 DEEP TYPE W/ FACTORY KNOCKOUTS

6. ALL MATERIAL TO BE USED SHALL BE BRAND NEW AN D APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE.

7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENTS.

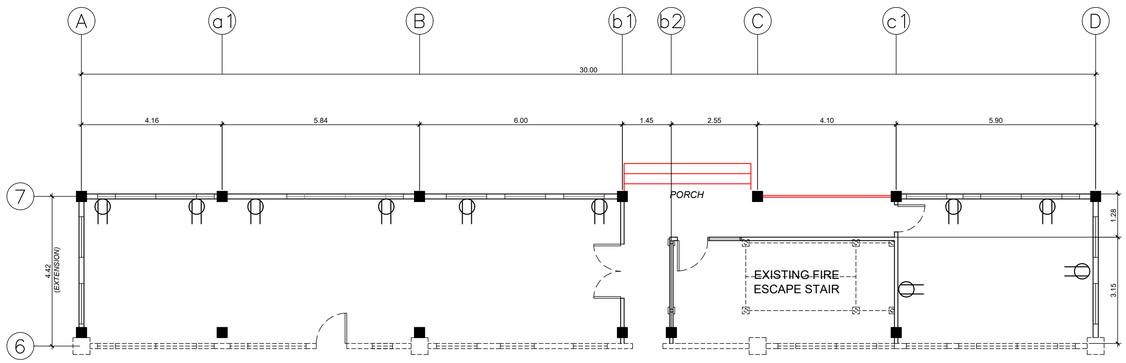
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS.

   A. LIGHT SWITCH - 1.20M ABOVE FINISHED FLO0OR LINE
   B. CONVENIENCE OUTLET - 0.30M ABOVE FINISHED FLOOR LINE
   C. SAFETY SWITCH - 1.80M ABOVE FINISHED FLOOR LINE
   D. FIRE ALARM STATION OUTLET - 1.50M. ABOVE FINISH FLOOR
   E. PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
   F-FIRE ALARM & VIBRATING BELL - .0.30 BELOW CEILING LINE

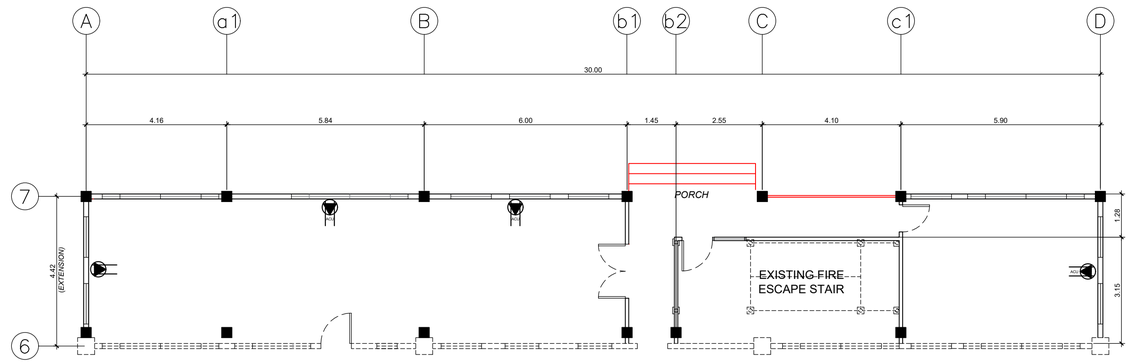
9. ALL WIRES PASSING CONCRETE COLUMN, WALLS SHALL BE EMBEDDED USING 20mm ELECTRICAL CONDUIT

LEGEND :

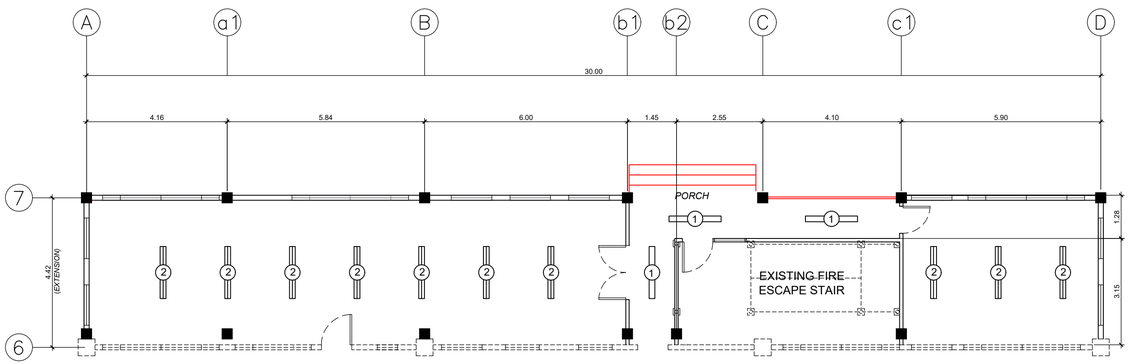
- CIRCUIT RUN
- LIGHTING OUTLET RUN
- SWITCH RUN
- 2x40WATTS FLOURESCENT FIXTURE
- 1x40WATTS FLOURESCENT FIXTURE
- FLOOD LIGHT
- POWER LINE
- CONV. OUTLET
- S2 DOUBLE SWITCH GANG
- ACU OUTLET



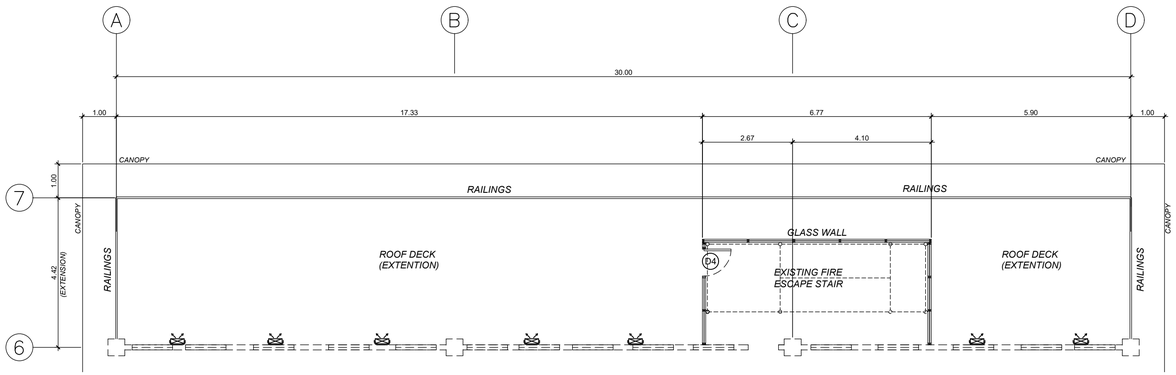
GROUND FLOOR POWER LAYOUT PLAN
SCALE 1:100 MTS



GROUND FLOOR ACU LAYOUT PLAN
SCALE 1:100 MTS



GROUND FLOOR LIGHTING LAYOUT PLAN
SCALE 1:100 MTS



SECOND FLOOR LIGHTING LAYOUT PLAN
SCALE 1:100 MTS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION - XIII
SURIGAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
SURIGAO CITY

PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED AND PREPARED :	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO:	SHEET NO:
COMPLETION OF THE CONSTRUCTION OF THE MUNICIPAL BUILDING BARANGAY SAN PABLO, SISON, SURIGAO DEL NORTE SOURCE OF FUND: FY 2024 (UNPROGRAMMED APPROPRIATION) APPROPRIATION: P 10,000,000.00	**GROUND FLOOR LIGHTING LAYOUT PLAN** **SECOND FLOOR LIGHTING LAYOUT PLAN** **GROUND FLOOR POWER LAYOUT PLAN** **GROUND FLOOR ACU LAYOUT PLAN**	**MARY HEART NICOLE S. MADROÑAL** ENGINEERING ASSISTANT DATE:	**EDUARDO M. TADULAN JR.** ENGINEER II DATE:	**NESAH B. DAPAR** OIC- PLANNING AND DESIGN SECTION DATE:	**ROMMEL A. PIAPE** ASSISTANT DISTRICT ENGINEER DATE:	**DOHJIE B. MORALES, MPA** OIC- DISTRICT ENGINEER DATE:	E 1 2	18 18

PLANNING AND DESIGN SECTION