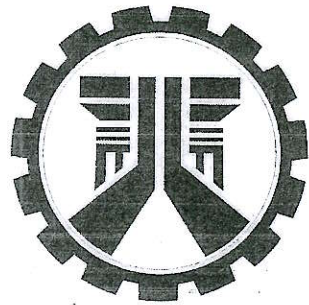




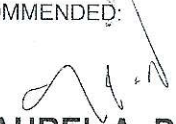
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
APAYAO 2ND DISTRICT ENGINEERING OFFICE
SAN ISIDRO SUR, LUNA, APAYAO

C.Y. 2025 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
**CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDINGS /
FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION OF
MULTI-PURPOSE BUILDING(BRGY.HALL), SAN JOSE,
PUDTOL, APAYAO**

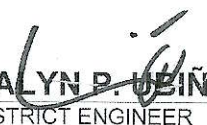
SUBMITTED:

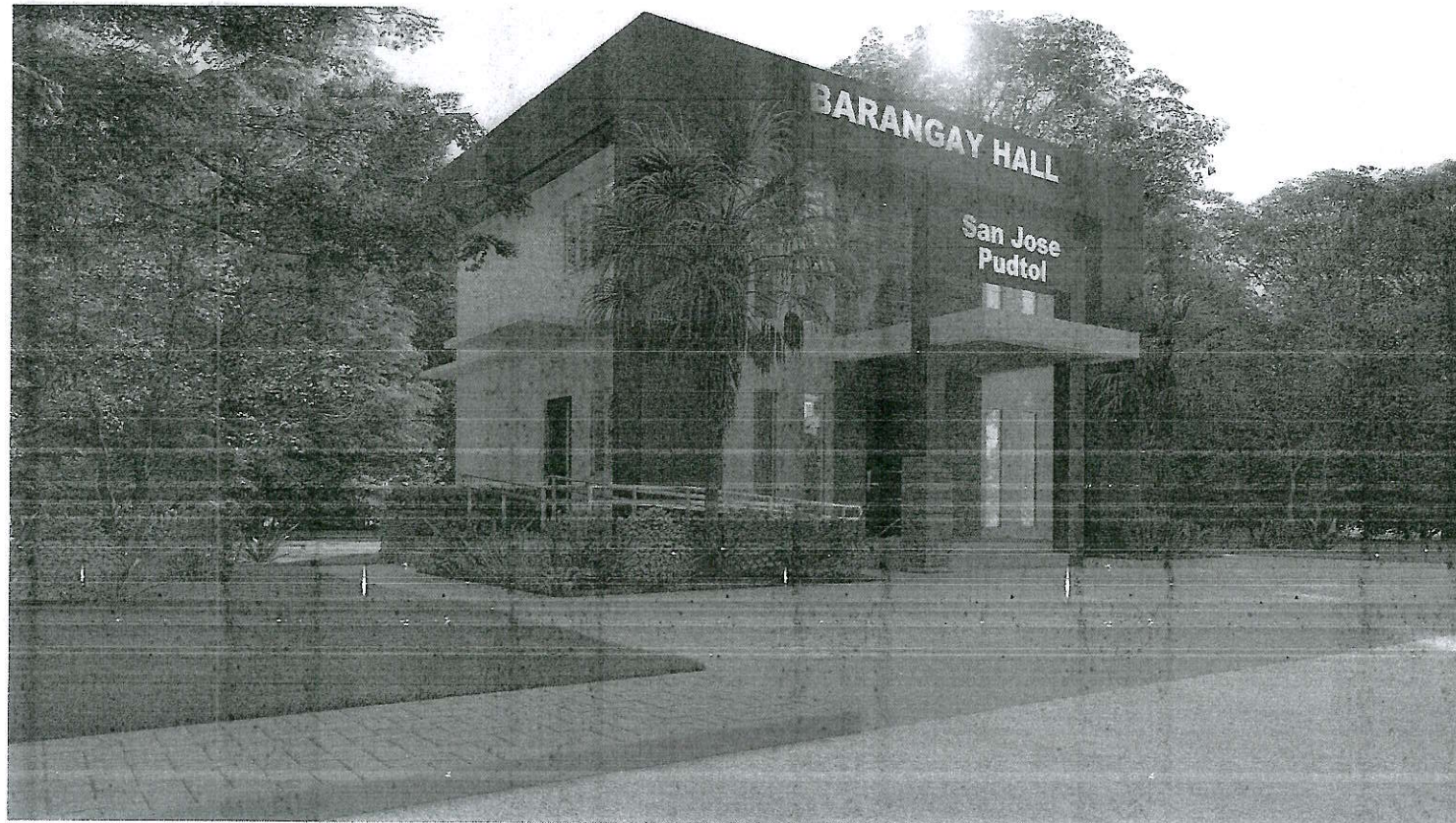

CHERRY JOY A. CALARAMO
CHIEF, PLANNING AND DESIGN SECTION
DATE: 15 MAY 2025

RECOMMENDED:


AUREL A. PEREZ
ASSISTANT DISTRICT ENGINEER
DATE: 16 MAY 2025

APPROVED:


RONALYN P. UEÑA
DISTRICT ENGINEER
DATE: 19 MAY 2025



1
A/2
PERSPECTIVE
NOT TO SCALE

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

LINE AND GRADE:

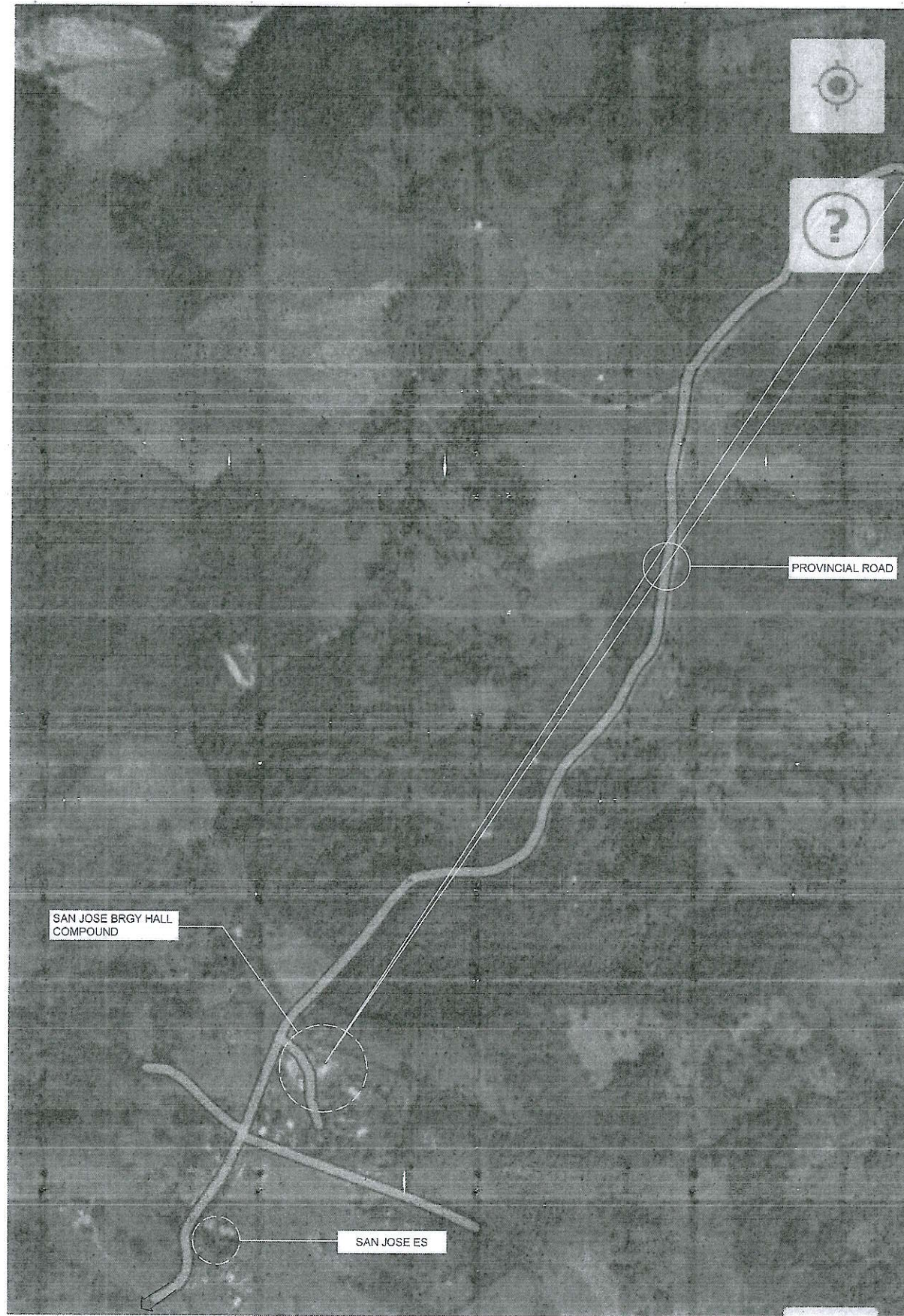
ARCHITECTURAL:

STRUCTURAL:

SANITARY:

ELECTRICAL:

MECHANICAL:



Convergence and Special Support Program - Basic Infrastructure Program (BIP) - Multi Purpose Buildings/ Facilities to support Social Services - Construction of Multi-Purpose Building(Brgy.Hall), Brgy. San Jose, Putol, Apayao

TO BRGY. SAN MARIANO PUTOL

PROVINCIAL ROAD

SAN JOSE BRGY HALL COMPOUND

SAN JOSE ES

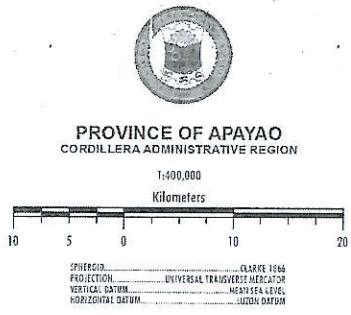
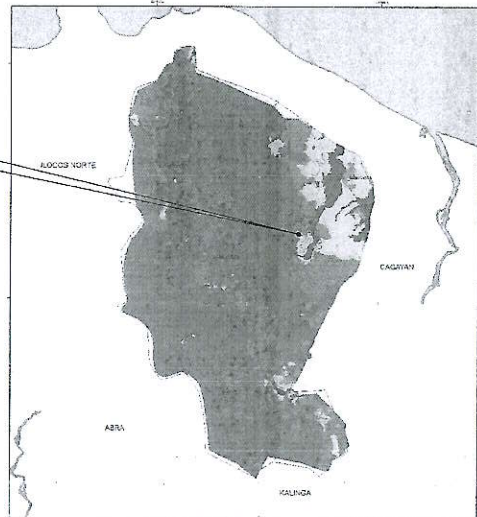
TO LYDIA PUTOL

RAIN-INDUCED FLOOD AND LANDSLIDE SUSCEPTIBILITY MAP

BASE DATA LEGEND

- FloodSusc, Rating**
- High Flood Susceptibility, High
 - Moderate Flood Susceptibility, Moderate
 - Low Flood Susceptibility, Low
- LandslideSu, Rating**
- Very High Landslide Susceptibility, Very High
 - High Landslide Susceptibility, High
 - Moderate Landslide Susceptibility, Moderate
 - Low Landslide Susceptibility, Low

Prepared by Flow/Possible Accumulation Zone, Debris Flow
PPDO-Apayao, 2019



MPB BRGY.HALL SAN JOSE PUTOL APAYAO 121.33167, 18.23322

HAZARD	ASSESSMENT	EXPLANATION AND RECOMMENDATION
Ground Failure	Safe Approximately 200 m northeast of the compound	Ground failure is a potential hazard in the study area. It is caused by the presence of faults and the presence of loose soil. The area is classified as 'Safe' because it is not located near any faults and the soil is not loose.
Ground Failure	Safe	Ground failure is a potential hazard in the study area. It is caused by the presence of faults and the presence of loose soil. The area is classified as 'Safe' because it is not located near any faults and the soil is not loose.
Debris Flow	Safe	Debris flow is a potential hazard in the study area. It is caused by the presence of loose soil and the presence of steep slopes. The area is classified as 'Safe' because it is not located near any steep slopes and the soil is not loose.
Debris Flow	Safe	Debris flow is a potential hazard in the study area. It is caused by the presence of loose soil and the presence of steep slopes. The area is classified as 'Safe' because it is not located near any steep slopes and the soil is not loose.

Explanation and Recommendation:

- All hazard assessments are based on the available data and the results of the field survey.
- The area is classified as 'Safe' because it is not located near any faults and the soil is not loose.
- The area is classified as 'Safe' because it is not located near any steep slopes and the soil is not loose.

VOLCANIC HAZARDS ASSESSMENT

HAZARD	ASSESSMENT	EXPLANATION AND RECOMMENDATION
Volcanic Ash	Safe	Volcanic ash is a potential hazard in the study area. It is caused by the presence of volcanoes. The area is classified as 'Safe' because it is not located near any volcanoes.
Volcanic Ash	Safe	Volcanic ash is a potential hazard in the study area. It is caused by the presence of volcanoes. The area is classified as 'Safe' because it is not located near any volcanoes.

Explanation and Recommendation:

- All hazard assessments are based on the available data and the results of the field survey.
- The area is classified as 'Safe' because it is not located near any volcanoes.

HYDRO-METEOROLOGICAL HAZARDS ASSESSMENT

HAZARD	ASSESSMENT	EXPLANATION AND RECOMMENDATION
Hydro-Meteorological Hazards	Safe	Hydro-meteorological hazards are a potential hazard in the study area. They are caused by the presence of heavy rainfall and the presence of steep slopes. The area is classified as 'Safe' because it is not located near any steep slopes and the rainfall is not heavy.
Hydro-Meteorological Hazards	Safe	Hydro-meteorological hazards are a potential hazard in the study area. They are caused by the presence of heavy rainfall and the presence of steep slopes. The area is classified as 'Safe' because it is not located near any steep slopes and the rainfall is not heavy.

Explanation and Recommendation:

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- The area is classified as 'Safe' because it is not located near any steep slopes and the rainfall is not heavy.

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Explanation and Recommendation:

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HYDRO-METEOROLOGICAL HAZARDS ASSESSMENT

HAZARD	ASSESSMENT	EXPLANATION AND RECOMMENDATION
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Explanation and Recommendation:

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- The area is classified as 'Safe' because it is not located near any steep slopes and the rainfall is not heavy.

NEAREST CRITICAL FACILITIES

CRITICAL FACILITY NAME	TYPE	DISTANCE FROM SPECIFIED LOCATION
San Jose Brgy Hall	Public Building	1.0 km
San Jose Brgy Hall	Public Building	1.0 km
San Jose Brgy Hall	Public Building	1.0 km
San Jose Brgy Hall	Public Building	1.0 km
San Jose Brgy Hall	Public Building	1.0 km

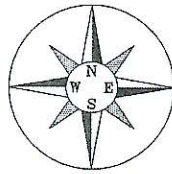
Explanation and Recommendation:

- All hazard assessments are based on the available data and the results of the field survey.
- The area is classified as 'Safe' because it is not located near any steep slopes and the rainfall is not heavy.

1 VICINITY MAP A 3 NTS

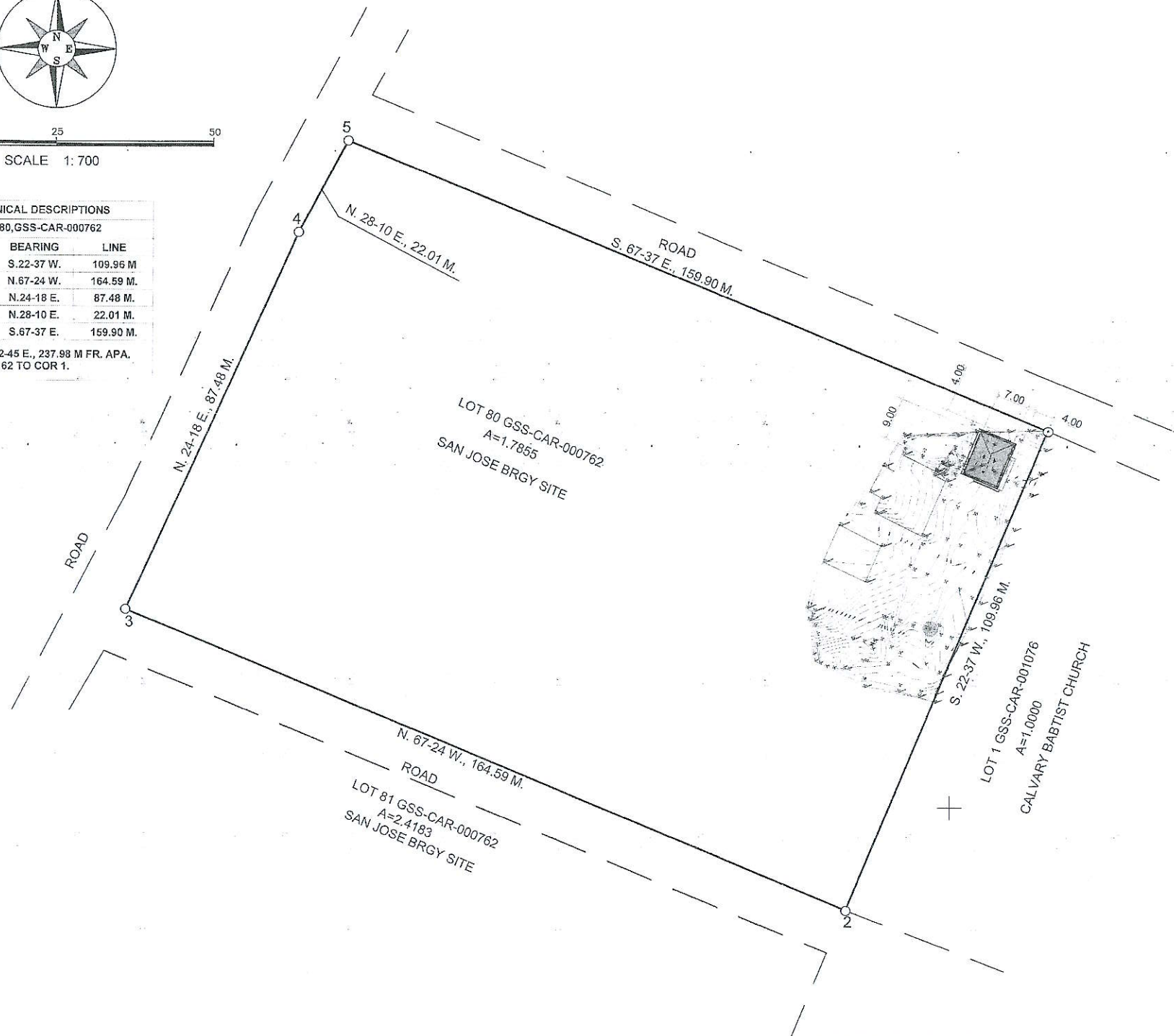
2 GEO-HAZARD MAP A 3

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS & HIGHWAYS CORDILLERA ADMINISTRATIVE REGION APAYAO 2ND DISTRICT ENGINEERING OFFICE SAN ISIDRO SUR, LUNA, APAYAO	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI PURPOSE BUILDINGS/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION OF MULTI-PURPOSE BUILDING(BRGY HALL), SAN JOSE, PUTOL, APAYAO	VICINITY MAP GEO-HAZARD MAP	MAVERICK M. BLANCO ENGINEERING ASSISTANT	HENDRICK D. UCOL ASSISTANT CHIEF PLANNING & DESIGN SECTION DATE: 15 MAY 2025	CHERRY JOY A. CALARAMO CHIEF PLANNING & DESIGN SECTION DATE: 15 MAY 2025	AUREL A. PEREZ ASSISTANT DISTRICT ENGINEER DATE: 16 MAY 2025	RONALYN B. PINA DISTRICT ENGINEER DATE: 19 MAY 2025	3	18



0.3 1.25 2.5 12.5 25 50
SCALE 1:700

TECHNICAL DESCRIPTIONS		
LOT 80, GSS-CAR-000762		
LINE	BEARING	LINE
1-2	S. 22-37 W.	109.96 M.
2-3	N. 67-24 W.	164.59 M.
3-4	N. 24-18 E.	87.48 M.
4-5	N. 28-10 E.	22.01 M.
5-1	S. 67-37 E.	159.90 M.
TIE LINE: N. 42-45 E., 237.98 M FR. APA, 3162 TO COR 1.		



THIS IS TO CERTIFY THAT THE TECHNICAL DESCRIPTION OF THE LOT FOR THIS PARTICULAR PROJECT IS BASED ON THE TAX DECLARATION NO. 05-0018-00324 PROVIDED BY THE END USER OF THE FACILITY.

FURTHER CERTIFY THAT THE PROPOSED LOCATION OF THIS PROJECT WAS PROPERLY COORDINATED WITH THE END USER PRIOR TO THE DETAILED ENGINEERING DESIGN

IRWIN P. CARIAGA
ENGINEER (LGE)

1 SKETCH / LOT

SCALE 1:1200 meters

2 SITE DEVELOPMENT PLAN

SCALE 1:800 meters



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
APAYAO 2ND DISTRICT ENGINEERING OFFICE
SAN SIDRO SUR, LUNA, APAYAO

PROJECT NAME AND LOCATION:

CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDINGS/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION OF MULTI-PURPOSE BUILDING (BRGY HALL), SAN JOSE, PUDTOL, APAYAO

SHEET CONTENTS:

SKETCH / LOT
SITE DEVELOPMENT PLAN

DRAFTED:

MAVERICK M. BLANCO
ENGINEERING ASSISTANT

VERIFIED:

IRWIN P. CARIAGA
ENGINEER (LGE)

REVIEWED:

HENDRICK D. UCOL
ASSISTANT CHIEF PLANNING & DESIGN SECTION

DATE: 13 MAY 2025

SUBMITTED:

CHERRY JOY A. CALARAMO
CHIEF PLANNING & DESIGN SECTION

DATE: 15 MAY 2025

RECOMMENDED:

AUREY A. PEREZ
ASSISTANT DISTRICT ENGINEER

DATE: 16 MAY 2025

APPROVED:

RONALYN B. BENA
DISTRICT ENGINEER

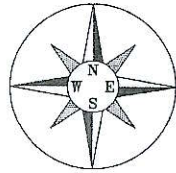
DATE: 19 MAY 2025

SET NO.

A
4 18

SHEET NO.

4
63



03.1255.25 12.5 25 50
SCALE 1: 700

SURVEY NOTES:

BENCH MARK	DESCRIPTION	X	Y	Z
BM-1	SEPTIC TANK CORNER EDGE	534956.110	2016821.323	95.24
BM-2	CORNER BUILDING	534940.114	2016798.780	94.87

BORE HOLE:

BORE HOLE	DESCRIPTION	NORTHING	EASTING	ELEVATION (m)
BH1		2016795.479	534932.622	57.3

-INSTRUMENT USED: HI-TARGET V90 PLUS GNSS-RTK/550 CHANNEL

-Survey reference is based on Philippine Reference System 92 (PRS-92)

-REFERENCE POINT:

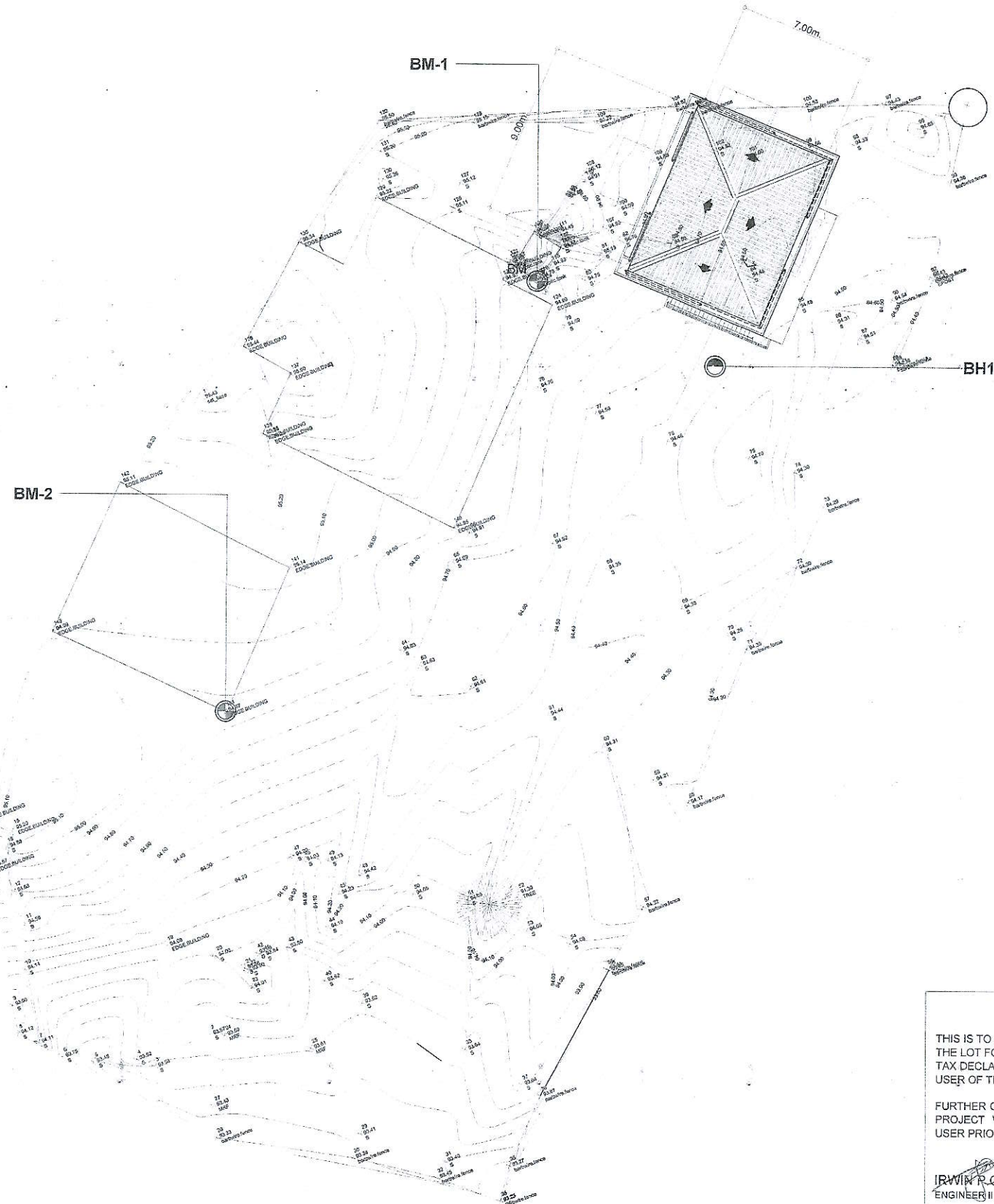
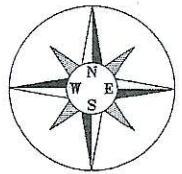
APA-3162 From Municipality of Pudtol towards Barangay San Jose at the back of Baangay Hall turn right at around 4.2 kilometers at the right side of the road APA-3162 is located. Station mark is the head of a 4" copper nail flush in a concrete monument 20 x 20 x 100 block embedded in the ground with inscription "APA-3162; 2008; NAMRIA."

X:2016652
Y:534849.213
Z:89.149

-DATE OF SURVEY: JANUARY 21, 2025

NOTE:

a.) SHOULD THERE BE MAJOR DEVIATIONS FROM THE ORIGINAL CONSTRUCTION PLAN WITH THAT OF THE ACTUAL SITE CONDITION, AS DETERMINED THROUGH A JOINT STAKE-OUT SURVEY BETWEEN THE CONTRACTOR, IMPLEMENTING SECTION AND PLANNING SECTION, AN "AS-STAKED" PLAN, IN ACCORDANCE TO D.O. No. 15 SERIES OF 2016, SHOULD BE SUBMITTED TO THE DPWH-ASDEO IN ORDER THAT IMMEDIATE STEPS MAY BE TAKEN TO CORRECT OR ADJUST WHATEVER APPRECIABLE DEVIATION THERE MAY BE FROM THE ORIGINAL PLAN.



THIS IS TO CERTIFY THAT THE TECHNICAL DESCRIPTION OF THE LOT FOR THIS PARTICULAR PROJECT IS BASED ON THE TAX DECLARATION NO. 06-0018-00324 PROVIDED BY THE END USER OF THE FACILITY.

FURTHER CERTIFY THAT THE PROPOSED LOCATION OF THIS PROJECT WAS PROPERLY COORDINATED WITH THE END USER PRIOR TO THE DETAILED ENGINEERING DESIGN

IRWIN R. CARIAGA
ENGINEER II (GE)

1
A/5
TOPOGRAPHIC MAP
SCALE 1:200 meters



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
APAYAO 2ND DISTRICT ENGINEERING OFFICE
SAN ISIDRO SUR LUNA APAYAO

PROJECT NAME AND LOCATION:
CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDINGS/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION OF MULTI-PURPOSE BUILDING (BRY-HALL), SAN JOSE, PUDTOL, APAYAO

SHEET CONTENTS:

TOPOGRAPHIC MAP

DRAFTED:
MAVERICK M. BLANCO
ENGINEERING ASSISTANT

PREPARED:
IRWIN R. CARIAGA
ENGINEER II (GE)

REVIEWED:
HENDRICK D. UCOL
ASSISTANT CHIEF PLANNING & DESIGN SECTION
DATE: 15 MAY 2025

SUBMITTED:
CHERRY JOY A. CALARAMO
CHIEF, PLANNING & DESIGN SECTION
DATE: 15 MAY 2025

RECOMMENDED:
AUREL A. PEREZ
ASSISTANT DISTRICT ENGINEER
DATE: 16 MAY 2025

APPROVED:
RONALYN B. UJINA
DISTRICT ENGINEER
DATE: 15 MAY 2025

SET NO.

A

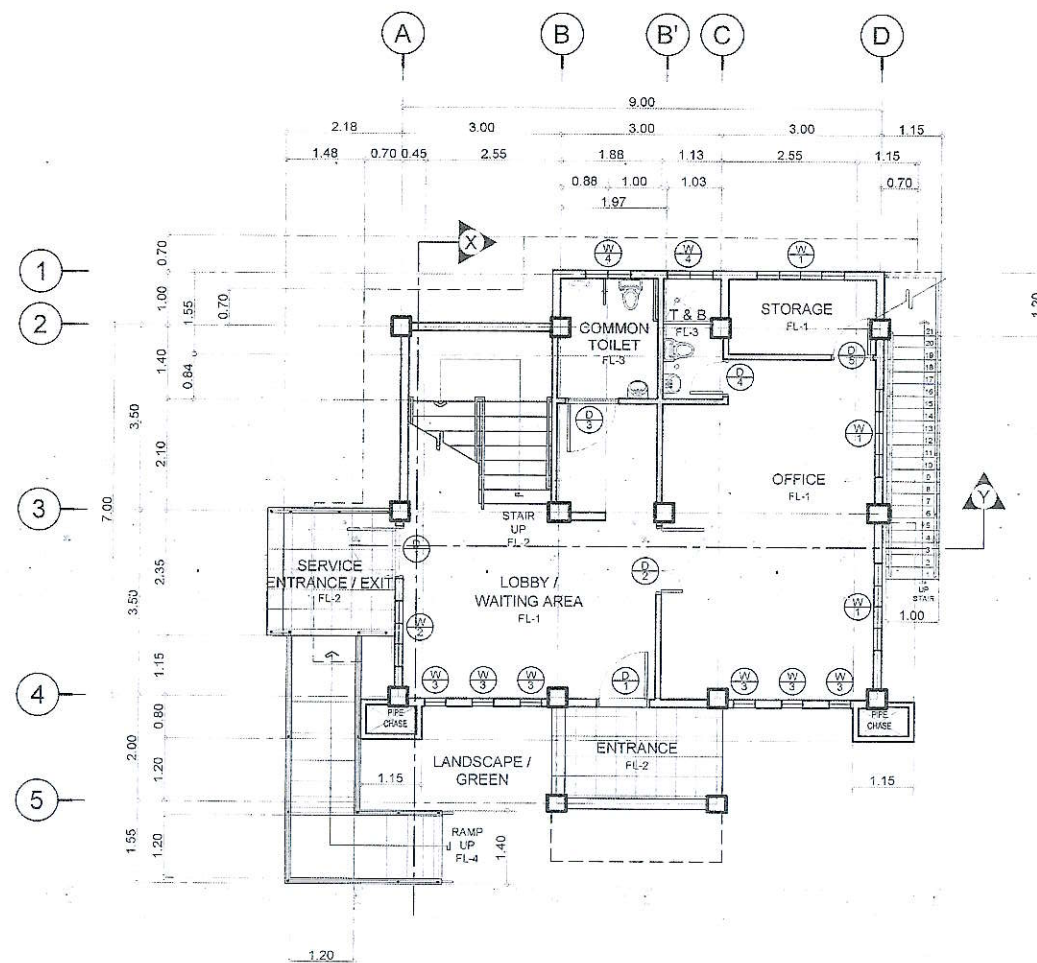
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18

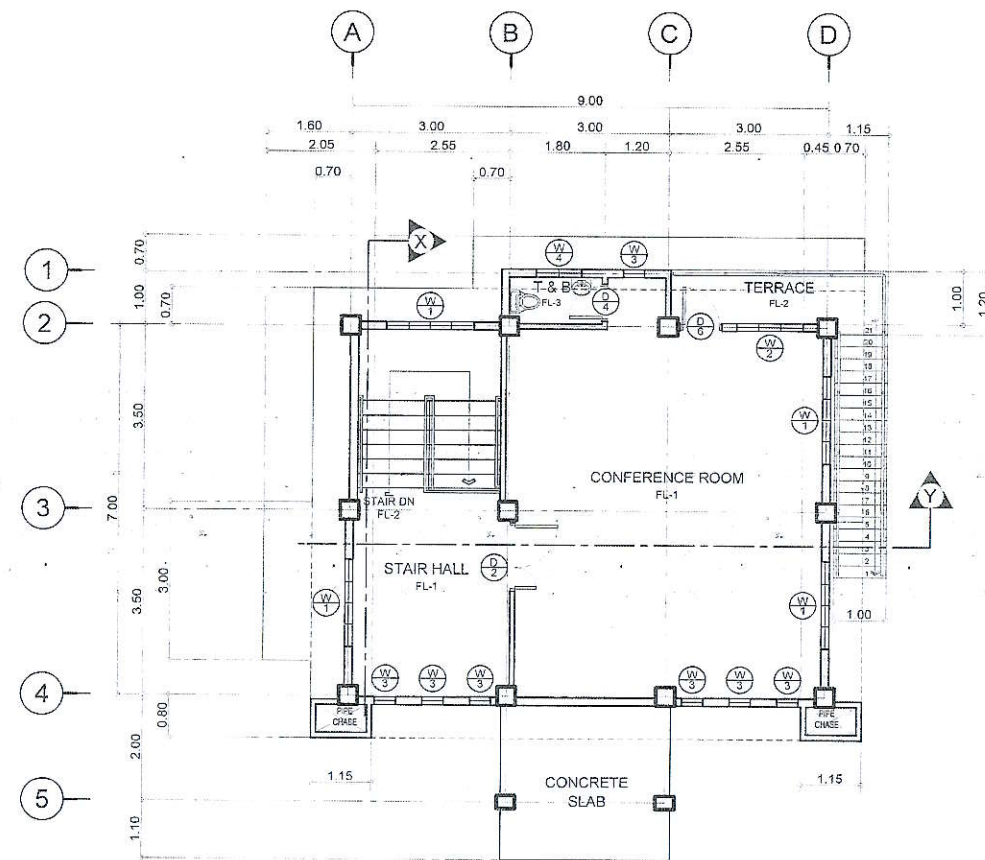
SHEET NO.

5

63



1 GROUND FLOOR PLAN
SCALE 1 : 100 meters



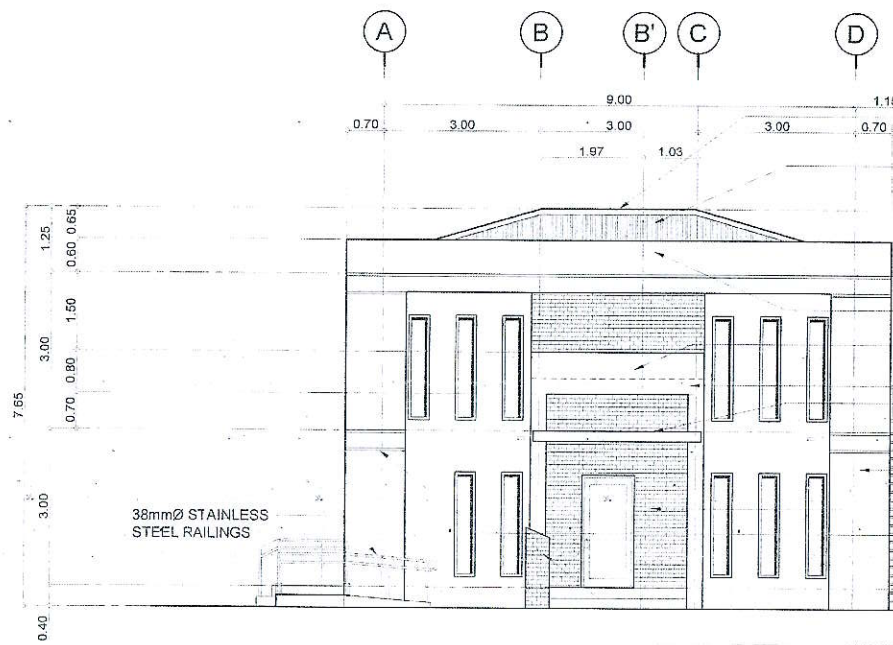
2 SECOND FLOOR PLAN
SCALE 1 : 100 meters

SCHEDULE OF FLOOR FINISHES

MARK	DESCRIPTION
FL-1	600 X 600 mm UNPOLISHED SYNTHETIC GRANITE TILE FLOOR FINISH(white)
FL-2	600 X 600 mm UNGLAZED TILE (NON - SKID)/FLOOR FINISH(gray)
FL-3	200 X 200 mm UNGLAZED TILES FLOOR FINISH(gray)
FL-4	NON - SKID CEMENT FLOOR FINISH WITH 6mm WIDE GROOVE

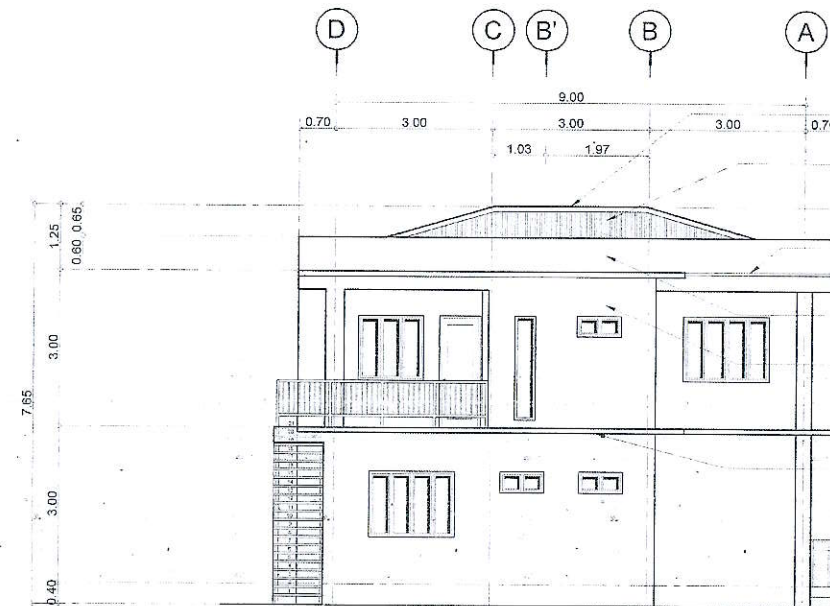
SCHEDULE OF WALL FINISHES(Interior)

MARK	DESCRIPTION
LOBBY/ WAITING AREA	PLAIN CEMENT PLASTER FINISH w/ PAINT FINISH(white)
CONFERENCE ROOM	PLAIN CEMENT PLASTER FINISH w/ PAINT FINISH(white)
OFFICE	PLAIN CEMENT PLASTER FINISH w/ PAINT FINISH(white)
TOILET & BATH	200 x 300 mm GLAZED TILES WALL FINISH(light green)



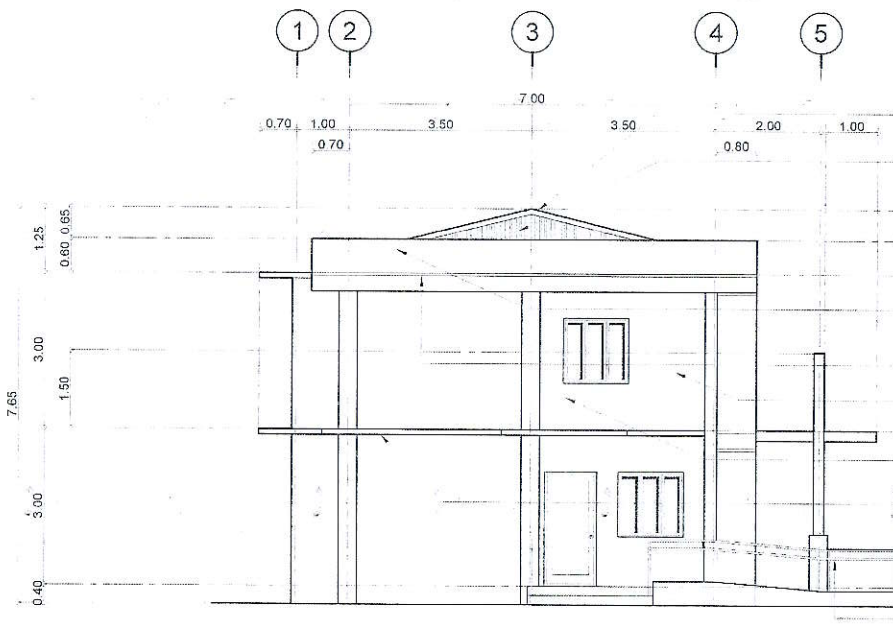
- 0.60mm thk. PRE PAINTED RIDGE ROLL (BLUE)
- 0.40mm thk. PRE PAINTED RIB TYPE ROOFING (BLUE)
- ▼ ROOF APEX LINE
- ▼ ROOF PARAPET
- ▼ TOP OF ROOF BEAM
- CONCRETE GUTTER / PARAPET w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- 2 - 4" thk. CHB WALL w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- CONCRETE BEAM (SEE STRUCTURAL DETAIL)
- CONCRETE CANOPY
- ▼ SECOND FLOOR LEVEL
- 4" thk. CHB WALL w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- 4" thk. CHB WALL w/ STONE CLADDING
- GROOVE (SEE DETAIL)
- ▼ FINISH FLOOR LINE
- ▼ FINISH GRADE LINE
- STONE CLADDING

1 FRONT ELEVATION
A/7 SCALE 1 : 100 meters



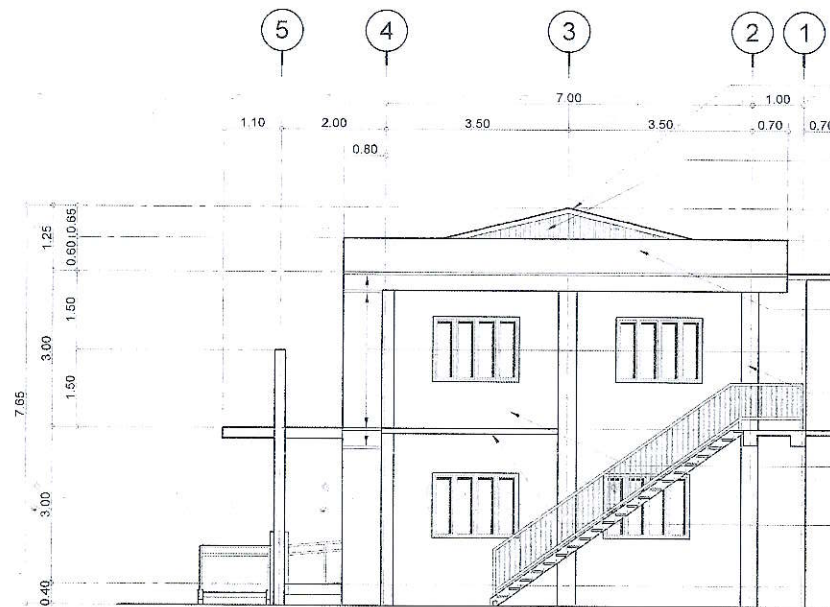
- 0.60mm thk. PRE PAINTED RIDGE ROLL (BLUE)
- 0.40mm thk. PRE PAINTED MULTI-RIB TYPE ROOFING (BLUE)
- ▼ ROOF APEX LINE
- ▼ ROOF PARAPET
- GROOVE LINE (SEE DETAIL)
- ▼ TOP OF ROOF BEAM
- CONCRETE GUTTER / PARAPET w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- 6" thk. CHB WALL w/ PLAIN CEMENT PLASTER PAINT FINISH (CREAM)
- ▼ SECOND FLOOR LEVEL
- 100mm thk. CONCRETE CANOPY w/ CEMENT PLASTER & PAINT FINISH (WHITE)
- 38mmØ STAINLESS STEEL RAILINGS
- ▼ FINISH FLOOR LINE
- ▼ FINISH GRADE LINE

2 REAR ELEVATION
A/7 SCALE 1 : 100 meters



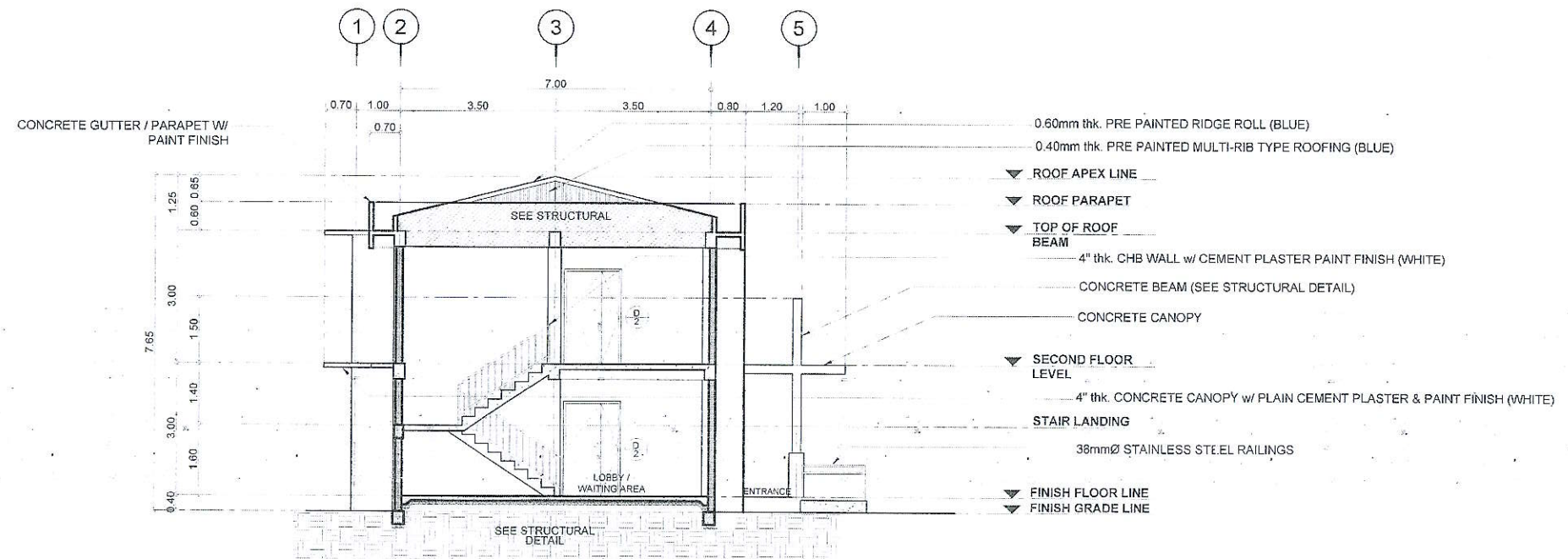
- 0.60mm thk. PRE PAINTED RIDGE ROLL (BLUE)
- 0.40mm thk. PRE PAINTED MULTI-RIB TYPE ROOFING (BLUE)
- ▼ ROOF APEX LINE
- ▼ ROOF PARAPET
- ▼ TOP OF ROOF BEAM
- CONCRETE GUTTER / PARAPET w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- GROOVE LINE (SEE DETAIL)
- 4" thk. CHB WALL w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- ▼ SECOND FLOOR LEVEL
- 6" thk. CHB WALL w/ PLAIN CEMENT PLASTER PAINT FINISH (CREAM)
- 100mm thk. CONCRETE CANOPY w/ CEMENT PLASTER & PAINT FINISH (WHITE)
- ▼ FINISH FLOOR LINE
- ▼ FINISH GRADE LINE
- 38mmØ STAINLESS STEEL RAILINGS

3 LEFT SIDE ELEVATION
A/7 SCALE 1 : 100 meters

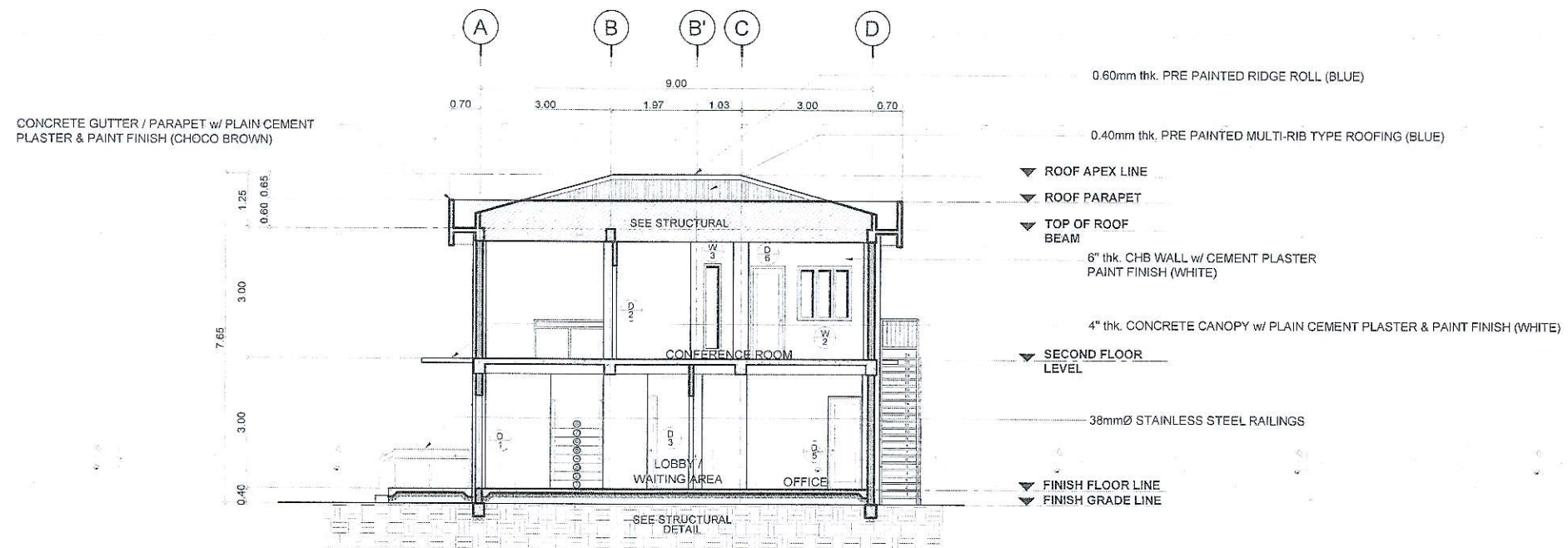


- 0.60mm thk. PRE PAINTED RIDGE ROLL (BLUE)
- 0.40mm thk. PRE PAINTED MULTI-RIB TYPE ROOFING (BLUE)
- ▼ ROOF APEX LINE
- ▼ ROOF PARAPET
- ▼ TOP OF ROOF BEAM
- CONCRETE GUTTER / PARAPET w/ PLAIN CEMENT PLASTER & PAINT FINISH (CHOCO BROWN)
- GROOVE LINE (SEE DETAIL)
- 4" thk. CHB WALL w/ CEMENT PLASTER PAINT FINISH (CHOCO BROWN)
- ▼ SECOND FLOOR LEVEL
- 6" thk. CHB WALL w/ PLAIN CEMENT PLASTER PAINT FINISH (CREAM)
- 100mm thk. CONCRETE CANOPY w/ CEMENT PLASTER & PAINT FINISH (WHITE)
- ▼ FINISH FLOOR LINE
- ▼ FINISH GRADE LINE

4 RIGHT SIDE ELEVATION
A/7 SCALE 1 : 100 meters



CROSS SECTION THRU "X"
SCALE 1 : 100 meters



LONGITUDINAL SECTION THRU "Y"
SCALE 1 : 100 meters



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
APAYAO 2ND DISTRICT ENGINEERING OFFICE
SAN ISIDRO SUR, LUNA, APAYAO

PROJECT NAME AND LOCATION:
CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI PURPOSE BUILDINGS/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION OF MULTI-PURPOSE BUILDING (BRGY HALL), SAN JOSE, PUDTOL, APAYAO

SHEET CONTENTS:
" CROSS SECTION THRU "X"
LONGITUDINAL SECTION THRU "Y"

DRAFTED:
MAVERICK M. BLANCO
ENGINEERING ASSISTANT
PREPARED:
WENDEL G. SALVADOR
ARCHITECT II

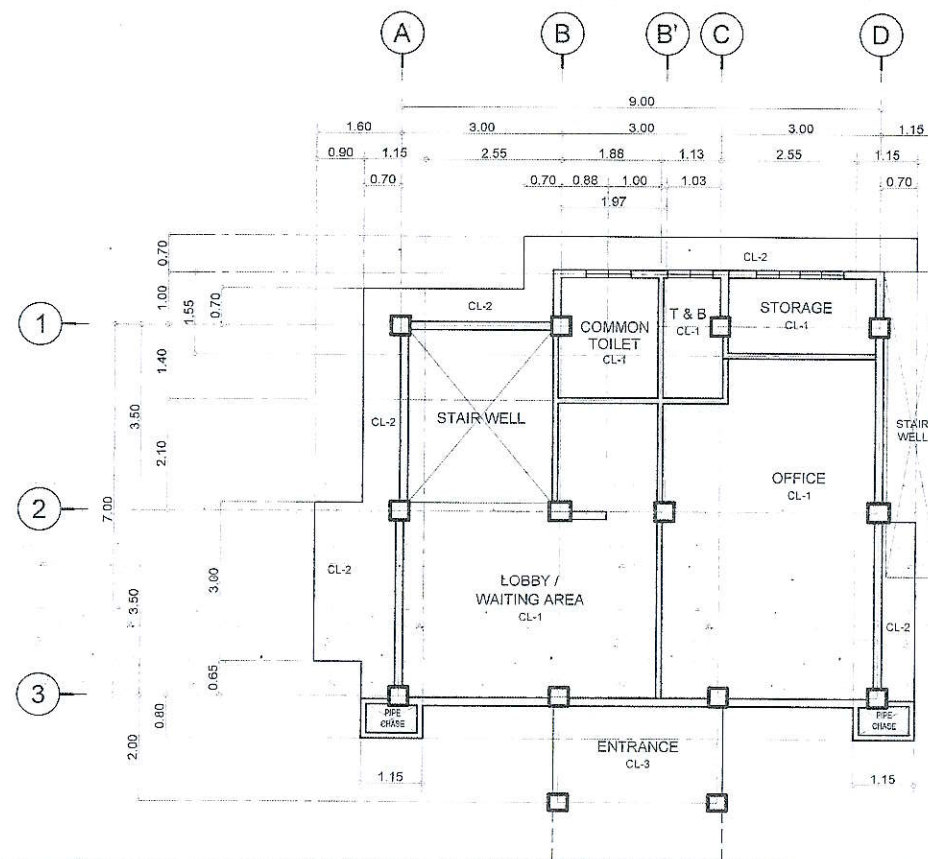
REVIEWED:
HENDRICK D. UCOL
ASSISTANT CHIEF PLANNING & DESIGN SECTION
DATE 14 MAY 2025

SUBMITTED:
CHERRY JOY A. CALARAMO
CHIEF PLANNING & DESIGN SECTION
DATE 13 MAY 2025

RECOMMENDED:
AUREL A. PEREZ
ASSISTANT DISTRICT ENGINEER
DATE 16 MAY 2025

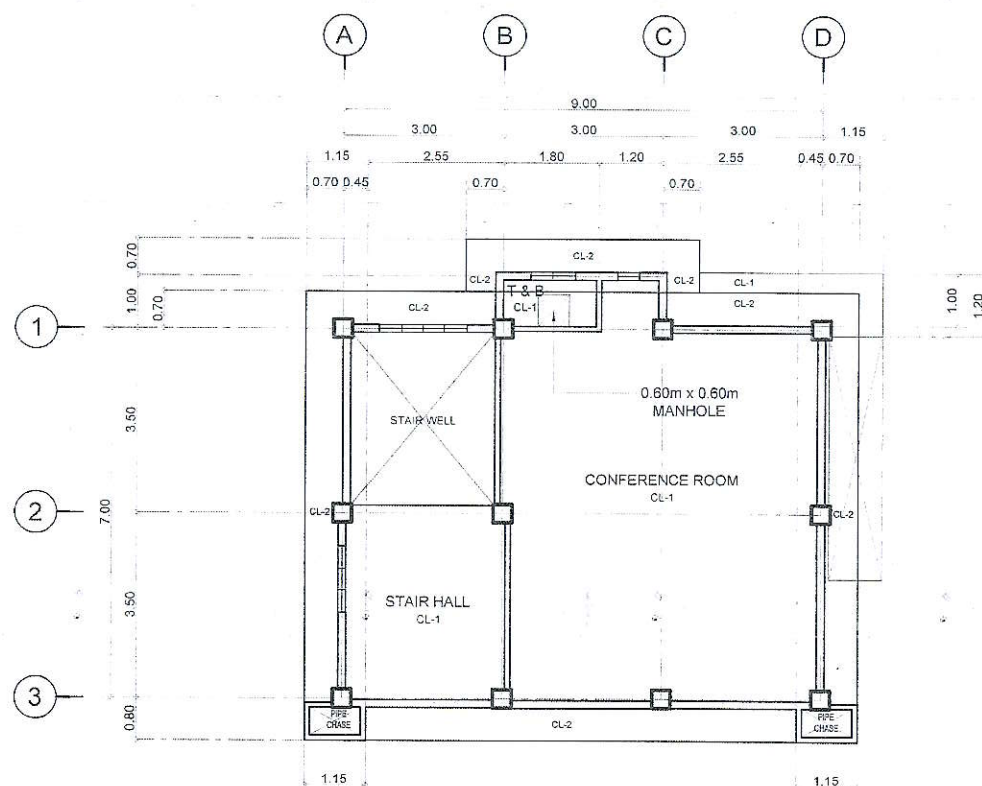
APPROVED:
RONALYN B. PERA
DISTRICT ENGINEER
DATE 19 MAY 2025

SET NO. 8
SHEET NO. 63



1
A 9
GROUND FLOOR REFLECTED CEILING PLAN
SCALE 1 : 100 meters

SCHEDULE OF CEILING FINISHES		
MARK	DESCRIPTION	REMARKS
CL-1	4.5mm thk. HARDIFLEX CEILING BOARD PAINTED FINISH(white)	PROVIDE 12 mm X 38 mm X 5 m. X 0.8 mm THK. METAL CARRYING CHANNEL (CEILING JOIST) AT 1200 mm ON CENTER WITH 19 mm X 50 mm X 5 m. X 0.5 mm THK. METAL DOUBLE FURRING CHANNEL (CEILING NAILER) AT 400 mm ON CENTER AND WITH 12 mm X 38 mm X 5 m. X 0.8 mm THK. METAL CHANNEL (CEILING HANGERS) AT 1200 mm & 800 mm ON CENTER
CL-2	EXPOSED R.C.SLAB	
CL-3	4.5mm thk. HARDIFLEX CEILING BOARD PAINTED FINISH(white)	PROVIDE 50mm x 50mm CEILING JOIST SPACED @ 0.40m. O.C.BOTHWAYS.



2
A 9
SECOND FLOOR REFLECTED CEILING PLAN
SCALE 1 : 100 meters

SCHEDULE OF CEILING FINISHES		
MARK	DESCRIPTION	REMARKS
CL-1	4.5mm thk. HARDIFLEX CEILING BOARD PAINTED FINISH	PROVIDE 12 mm X 38 mm X 5 m. X 0.8 mm THK. METAL CARRYING CHANNEL (CEILING JOIST) AT 1200 mm ON CENTER WITH 19 mm X 50 mm X 5 m. X 0.5 mm THK. METAL DOUBLE FURRING CHANNEL (CEILING NAILER) AT 400 mm ON CENTER AND WITH 12 mm X 38 mm X 5 m. X 0.8 mm THK. METAL CHANNEL (CEILING HANGERS) AT 1200 mm & 800 mm ON CENTER
CL-2	0.5mm THK.SPANDREL CEILING	PROVIDE 50mm x 50mm CEILING JOIST SPACED @ 0.40m. O.C.BOTHWAYS.