

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

CY 2025 BIP PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
**CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL),
BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE**
PROJECT NAME
CARMEN, DAVAO DEL NORTE
LOCATION

REVIEWED:


JEZABEL E. TULING
CHIEF, PLANNING & DESIGN SECTION
DATE:

RECOMMENDED:


GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:


ARTURO P. LONGYAPON
DISTRICT ENGINEER
DATE:



1
A1
PERSPECTIVE
DNTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE
BUILDING OFFICIAL

CARMEN

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE AND GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

SANITARY

PLUMBING

ELECTRICAL

ELECTRONICS

MECHANICAL

GEODETIC

TABLE OF CONTENTS

ARCHITECTURAL		ARCHITECTURAL		STRUCTURAL		PLUMBING	
A1	PERSPECTIVE, TABLE OF CONTENTS	A15	RAILINGS ANCHORAGE DET., SYMBOL OF ACCESS, RAMP PLAN, RAMP SLAB SECTION, RAILING SPOT DETAIL, RAMP SLAB SECTION, RAMP ELEVATION	S13	CONSTRUCTION SAFETY SIGNAGE FOR BUILDING CONSTRUCTION	P1	SITE DEVELOPMENT PLAN, VICINITY MAP
A2	SUMMARY OF QUANTITIES	STRUCTURAL		S14	SAFETY AND HEALTH (FOUNDATION PLAN, SECOND FLOOR PLAN, LEGEND)	P2	PLUMBING NOTES, LEGEND
A3	LOCATION PLAN, VICINITY MAP, SITE DEVELOPMENT PLAN, LEGEND	S1	GENERAL CONSTRUCTION NOTES "A"			P3	GRND. FLR. PLUMBING LAYOUT, 2ND FLR. PLUMBING LAYOUT, STORM DRAINAGE LAYOUT
A4	GROUND FLOOR PLAN, SECOND FLOOR PLAN, SCHEDULE OF FINISHES	S2	GENERAL CONSTRUCTION NOTES "B"	ELECTRICAL		P4	GRND. FLR. WATER LINE LAYOUT, 2ND FLR. WATER LINE LAYOUT
A5	FRONT ELEVATION, REAR ELEVATION, LEFT SIDE ELEVATION, RIGHT SIDE ELEVATION, SCHEDULE OF FINISHES	S3	FOUNDATION PLAN, F1-C1 DETAIL, C1 DETAIL, PC DETAIL	E1	LEGEND, GENERAL NOTES, VICINITY MAP	P5	ISOMETRIC PLUMBING, ISOMETRIC WATER LINES
A6	CROSS SECTION, LONGITUDINAL SECTION, ROOF PLAN, SCHEDULE OF FINISHES	S4	LW-1 DETAIL, WF-2 DETAIL, KITCHEN SINK COUNTER DET., DET. OF STAIR ON GRADE "B", FTB-1 DETAIL, WALL TO FLOOR CONN. DETAIL, FTB-1 SECTION, WF-3 DETAIL, SLAB TO WALL DETAIL, WF-1 DETAIL, FTB-1 DETAIL, CONC. JAMB DETAIL, CONC. OF STAIR ON GRADE "A", RAMP SPOT DETAIL	E2	GRND. FLR. POWER LAYOUT, 2ND FLR. POWER LAYOUT	P6	DETAIL SECTION OF WATER CLOSET, SERVICE HOLE DET., SECTION, SEPTIC VAULT DETAIL, FLOOR DRAIN DETAIL, LAVATORY SECTION DETAIL, CATCH BASIN DETAIL, SOIL STOCK FLOOR CLEAN OUT DET.
A7	GRND. FLR. REFLECTED CEILING PLAN, 2ND FLR. REFLECTED CEILING PLAN	S5	FLOOR FRAMING PLAN, VERANDAH SLAB DET., FIRE EXIT LANDING SLAB DET., TYPICAL SLAB ELEVATION, BLOW-UP DETAIL "J", DETAIL OF SLAB, BLOW-UP DETAIL "K"	E3	GRND. FLR. LIGHTING LAYOUT, 2ND FLR. LIGHTING LAYOUT	GEODETIC	
A8	CEILING PERSPECTIVE, CEILING SECTION, CEILING ANCHORAGE DETAIL	S6	TYPICAL BEAM DETAILS, CANTILEVER BEAM ELEV. DET., BEAM SCHEDULE, WF-1 DETAIL, WF-3 DETAIL	E4	LOAD SCHEDULE, SINGLE LINE DIAGRAM, GENERAL NOTES, RISER, DIAGRAM, COMPUTATION	G1	LOT PLAN, SITE DEVELOPMENT PLAN/BORE HOLE LOCATION PLAN
A9	BLOW-UP DETAIL, ROOF PLAN	S7	ROOF FRAMING PLAN, ROOF PANEL SIDE LAP DETAIL, TRUSS ANCHORAGE DET., ISOMETRIC VIEW OF CONN. OF G.I. SHEET TO PURLINS, PURLIN CONNECTION DETAIL, DETAIL CONN. OF PURLIN & SAGROD, PURLIN SPLICE	E5	VOLTAGE DROP CALCULATION, ILLUMINATION, FAULT CURRENT, COMPUTATION, TRANSFORMER		
A10	STAIR LAYOUT PLAN, STAIR SECTION "A", STAIR SECTION "B", RAILINGS ANCHORAGE DET., SECTIONAL DETAIL, STAIR PLAN	S8	TRUSS DETAIL, BLOW DETAIL, TRUSS SUPPORT CONN. DET., DETAIL CONN. OF CROSS BRACING, SAG ROD CONNECTION DETAIL, STEEL FASCIA FRAME DET.	MECHANICAL			
A11	BLOW-UP DETAIL "C", BLOW-UP DETAIL "B", DETAIL "G", BLOW-UP DETAIL "A", DET. OF STAIR ON GRADE "B", DET. OF STAIR ON GRADE "A", BLOW-UP DETAIL "H", BLOW-UP DETAIL "I", WALL GROOVE PATTERN DET., CONC. LEDGE DETAIL	S9	STAIR SECTION DETAIL, ELECTRICAL, SERVICE ENTRANCE COLUMN DET., REFERENCE DET. ELEV. OF COLUMN, TYP. COLUMN ELEV. SHOWING BAR LAP SPLICE	M1	GENERAL NOTES, LEGENDS		
A12	KITCHEN CABINET DET., BLOW-UP DETAIL, SHELVE SPOT DETAIL, LAVATORY ELEV., PWD LAV. ELEVATION	S10	DETAIL 5, DETAIL 2 FIRE ESCAPE FRAMING PLAN, DETAIL 3, DETAIL 4, DETAIL 1, FRONT ELEVATION, LEFT SIDE ELEVATION	M2	GRND. FLR. ACU LAYOUT, 2ND FLR. ACU LAYOUT		
A13	BLOW-UP DETAILS	S11	DPWH / COA STANDARD PROJECT BILLBOARD	M3	EXHAUST FAN (WALL MOUNTED) DETAIL, ACCU MOUNTING DETAIL, SCHEDULE OF EQUIPMENT		
A14	SCHEDULE OF DOORS & WINDOWS	S12	COA BILLBOARD ELEVATIONS, NOTES	FP	GRND. & 2ND FLR. FIRE PROTECTION PLAN, LEGENDS, GENERAL NOTES, FIRE EXTINGUISHER DETAIL		



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION:

CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE

PERSPECTIVE
TABLE OF CONTENTS

DRAFTED

WARREN S. PIÑEZ
ENGINEER II

PREPARED

BENILDA S. PACQUIAO
ENGINEER II

REVIEWED

HERWIN EVAN J. HABABAO
ENGINEER II

DATE

SUBMITTED

JEZABEL E. TUONG, MPA
CHIEF, PLANNING & DESIGN SECTION

DATE

RECOMMENDED

GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

ARTURO P. LONGYAPON
DISTRICT ENGINEER

DATE

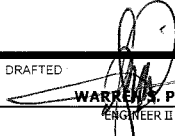
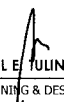
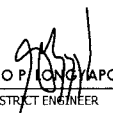
SET NO.:

SHEET NO.:

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
PART II OTHER GENERAL REQUIREMENTS			
B.3 (1)	Permits and Clearances	1.00	l.s.
B.5 (1)	Project Billboard / Signboard	2.00	ea
B.7 (1)	Occupational Safety and Health	1.00	l.s.
B.9 (1)	Mobilization / Demobilization	1.00	l.s.
TOTAL OF PART II			
(Project Component ID - Description)			
PART III CIVIL, ELECTRICAL AND PLUMBING/SANITARY WORKS			
PART A EARTHWORKS			
800(3)a2	Individual Removal of Trees (301 - 500mm Ø)	6.00	ea
801(1)	Removal of Structures & Obstruction	1.00	ls
800 (1)	Clearing and Grubbing	247.00	m2
803 (1)a	Structure Excavation (Common Soil)	219.60	cu.m
804 (1)a	Embankment from Roadway/Structure Excavation (Common Soil)	167.00	cu.m
804 (7)	Gravel Fill	29.30	cu.m
TOTAL OF PART A			
PART B PLAIN AND REINFORCED CONCRETE WORKS			
900 (1)b	Structural Concrete, 3000PSI, Class A, 14 Days	16.39	cu.m
900 (1)d	Structural Concrete, 4000PSI, Class A, 28 Days	41.78	cu.m
900 (1)i	Structural Concrete, Class A, 28 Days	35.04	cu.m
902 (1)a1	Reinforcing Steel (Deformed, Grade 40)	6,089.84	kgs
902 (1)a2	Reinforcing Steel (Deformed, Grade 60)	4,000.68	kgs
903 (2)	Formworks and Falseworks	574.34	m2
TOTAL OF PART B			
PART C FINISHING, SANITARY AND OTHER CIVIL WORKS			
C.1 Masonry Works			
1046 (2)a1	100mm CHB Non Load Bearing (Including Reinforcing Steel)	32.24	m2
1046 (2)a2	150mm CHB Non Load Bearing (Including Reinforcing Steel)	194.9	m2
C.2 Finishing Works			
1027 (1)	Cement Plaster Finish	327.56	m2
1003 (1)a1	Ceiling (4.5mm Fiber Cement Board on Metal Frame)	64.86	m2
1003 (1)e	Ceiling (Pre-painted Metal Panel on Metal Frame)	54.73	m2
1033 (1)	Metal Deck Panel	53.90	ln.m
1038 (1)	Reflective Insulation	121.00	m2

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
C.3 Carpentry and Joinery			
1003(17)	Carpentry and Joinery Works	1.00	ls
C.5 Fabricated Materials and Hardwares			
1010 (1)	Frames (Jambs, Sills, Head, Transoms and Mullions)	4.00	sets
1010 (2)b	Doors (Wood Panel)	4.90	m2
1012 (3)a6	Tempered Glass Door (12mm)	4.90	m2
1008 (1)c	Aluminum Glass Windows (Awning Type)	23.50	m2
1008 (1)d	Aluminum Glass Windows (Fixed Type)	19.30	m2
1004 (2)	Finishing Hardware	1.00	ls
1051 (1)a	Railing	1.00	ls
C.6 Roof Framing and Roofing Works			
1047 (7)	Structural Steel	1.00	ls
1047 (8)a	Structural Steel, Trusses	1,151.02	kg
1047 (8)b	Structural Steel, Purlins	484.50	kg
1047 (5)c	Metal Structure Accessories, Cross Bracing	18.48	kg
1047 (5)b	Metal Structure Accessories, Sagrods	14.78	kg
1047 (5)d	Metal Structure Accessories, Steel Plates	235.38	kg
1013 (2)b	Fabricated Metal Roofing Accessory (Flashing); Gauge 26 (0.551 mm)	36.60	ln.m
1013 (2)c	Fabricated Metal Roofing Accessory (Gutter); Gauge 24 (0.701 mm)	12.20	ln.m
1014 (1)b2	Pre-painted Metal Sheets (Rib, Long Span, above 0.427mm thk)	121.00	m2
1036 (1)a	Polycarbonate Sheets/Panels (Solid)	4.80	ln.m.
C.7 Sanitary Works			
1001 (11)	Septic Vault/Tank (Concrete/CHB)	1.00	ls
1001 (8)	Sewer Line Works	1.00	ls
1001 (9)	Storm Drainage and Downspout	1.00	ls
1002 (4)	Plumbing Fixtures	1.00	ls
1002 (24)	Cold Water Lines	1.00	ls
1001 (5)b	Catch Basin (CHB)	4.00	ea
TOTAL OF PART C			
PART D ELECTRICAL WORKS			
1100 (10)	Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)	1.00	ls
1101 (33)	Wires and Wiring Devices	1.00	ls
1102 (1)	Panelboard with Main & Branch Breakers	1.00	ls
1103 (1)	Lighting Fixtures	1.00	ls
TOTAL OF PART D			

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION XI DAVAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE TAGUM CITY	PROJECT & LOCATION: CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL), BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE	SUMMARY OF QUANTITIES	DRAFTED  WARREN J. PINEZ ENGINEER II	REVIEWED  HERWIN EVAN J. HABABAO ENGINEER II	SUBMITTED  JEZABEL E. TULUNG, MPA CHIEF, PLANNING & DESIGN SECTION	RECOMMENDED  GARRY E. VERANO OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER	APPROVED  ARTURO P. LONGYAPON DISTRICT ENGINEER	SET NO.:	SHEET NO.:
			PREPARED:  BENILDA S. PACQUIAO ENGINEER II	DATE:	DATE:	DATE:	DATE:		

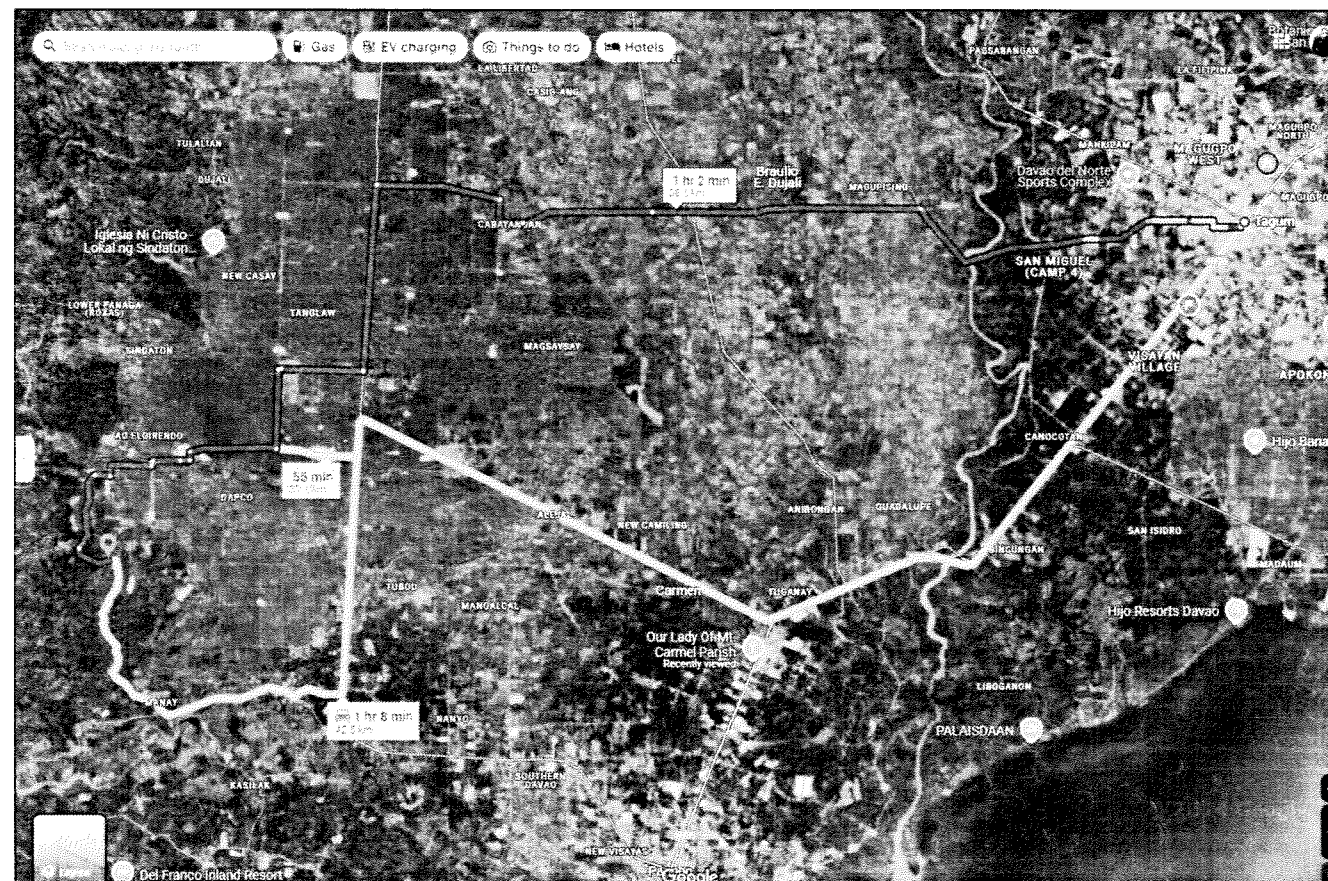
4 LEGEND
A3 DNTS

BM BENCHMARK (EXISTING BRGY. HALL, ELEV. 0.30)
SITE AREA: 13,280 SQ. M.
BUILDING AREA: 128.00 sq. m.

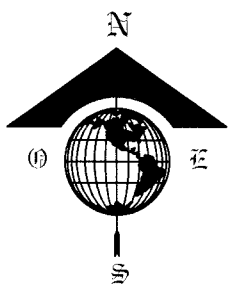
3 LOCATION PLAN
A3 DNTS

This is to certify that the detailed engineering surveys and designs have been conducted according to the prescribed agency standards and specifications in conformance with the provisions of Annex "A" of the Revised Implementing Rules and Regulations of RA 9184, and that the detailed engineering outputs are adequate for the procurement at hand.

WARREN S. PIÑEZ
Head, Survey and Investigation Unit

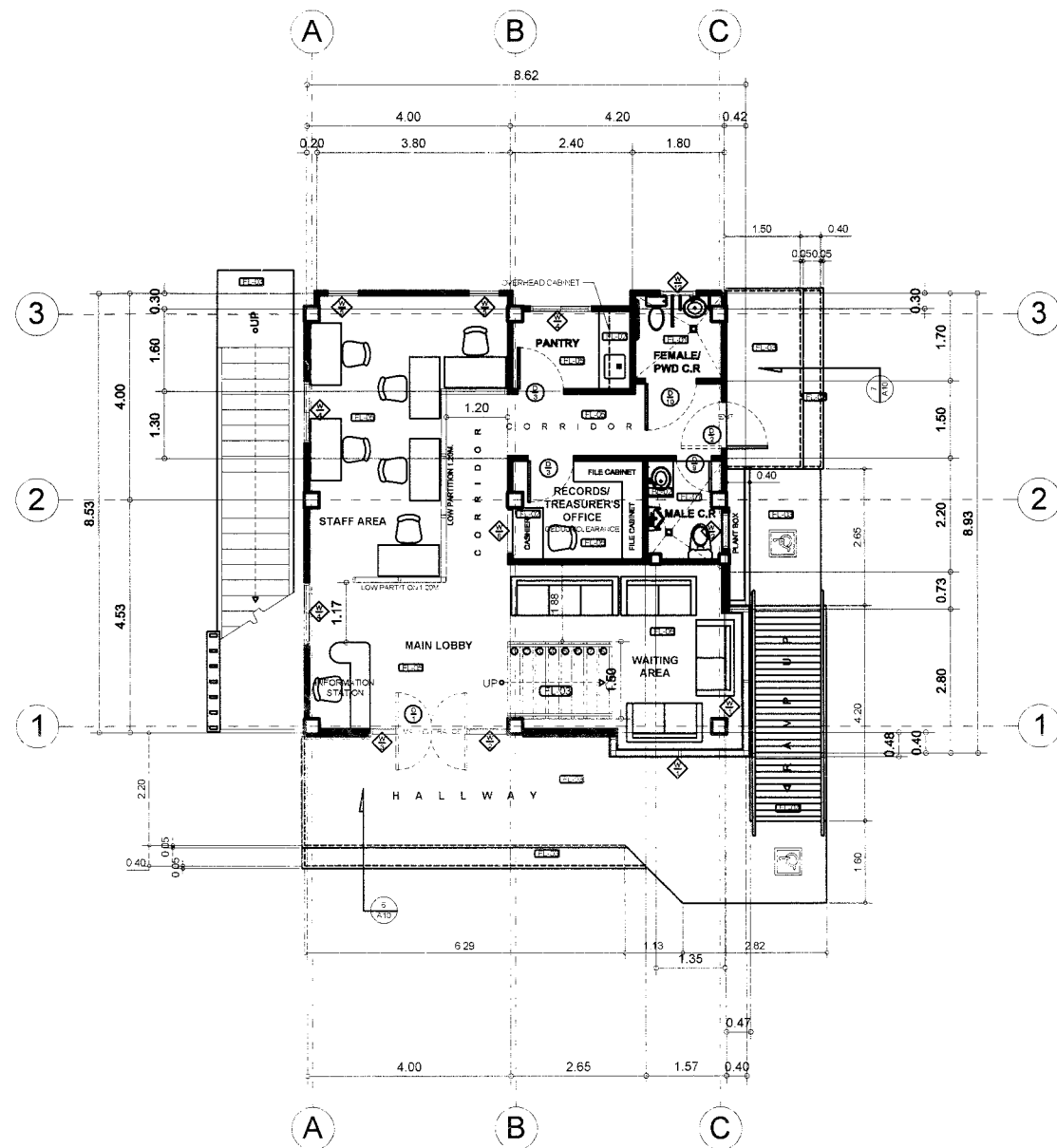


1 SITE DEVELOPMENT PLAN
A3 SCALE 1:1000M



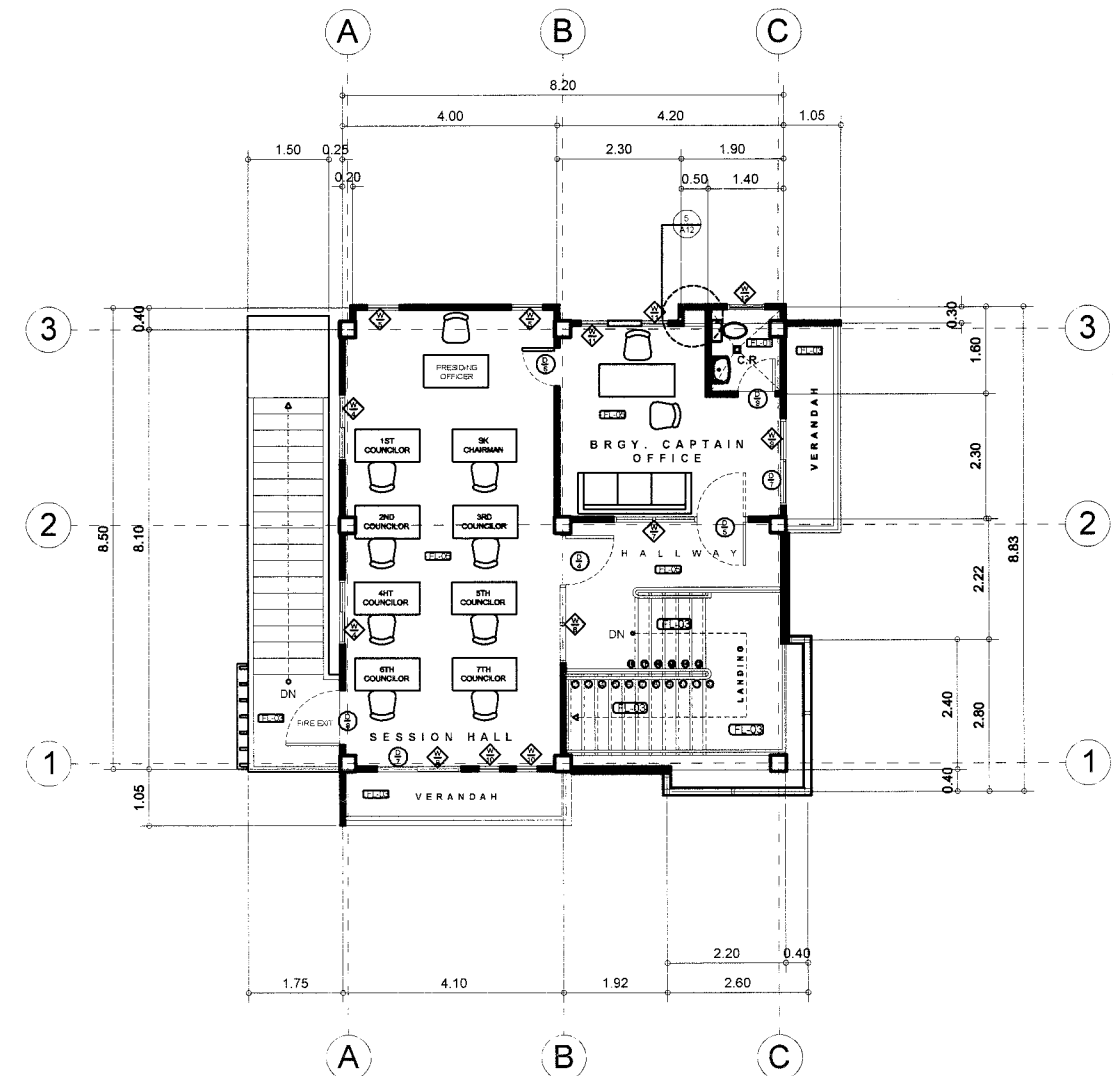
2 VICINITY MAP
A3 DNTS

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION XI DAVAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE TAGUM CITY	PROJECT & LOCATION: CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL), BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE	LOCATION PLAN VICINITY MAP SITE DEVELOPMENT PLAN (AS PER SITE VALIDATION) LEGEND	DRAFTED  WARREN S. PIÑEZ ENGINEER II	REVIEWED  HERWIN EVAN J. HABABAG ENGINEER II	SUBMITTED  JEZABEL E. TULUNG, MPA CHIEF, PLANNING & DESIGN SECTION	RECOMMENDED  GARRY E. VERANO OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER	APPROVED  ARTURO P. LONGYAPON DISTRICT ENGINEER	SET NO.:	SHEET NO.:
			PREPARED  BENILDA S. PACQUIAO ENGINEER II	DATE:	DATE:	DATE:	DATE:		



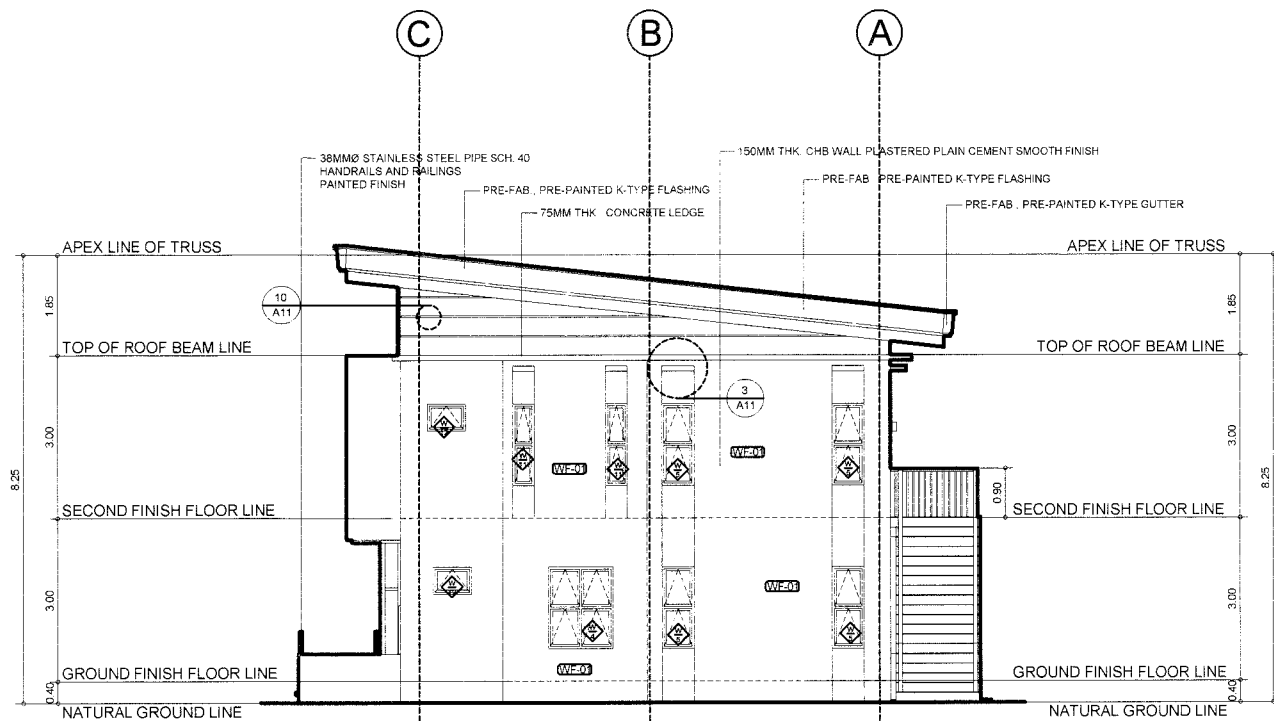
1 GROUND FLOOR PLAN
A4 SCALE 1:80 MTS

SCHEDULE OF FINISHES	
FLOOR FINISH:	
	600X600MM NON-SKID FLOOR TILES
	600X600MM GLAZED COUNTER TILES
	NON-SKID PLAIN CEMENT FLOOR FINISH
	PLAIN CEMENT GROOVED FLOOR FINISH
	NON-SKID PLAIN SMOOTH CEMENT FLOOR FINISH
	600X600MM GLAZED FLOOR TILES

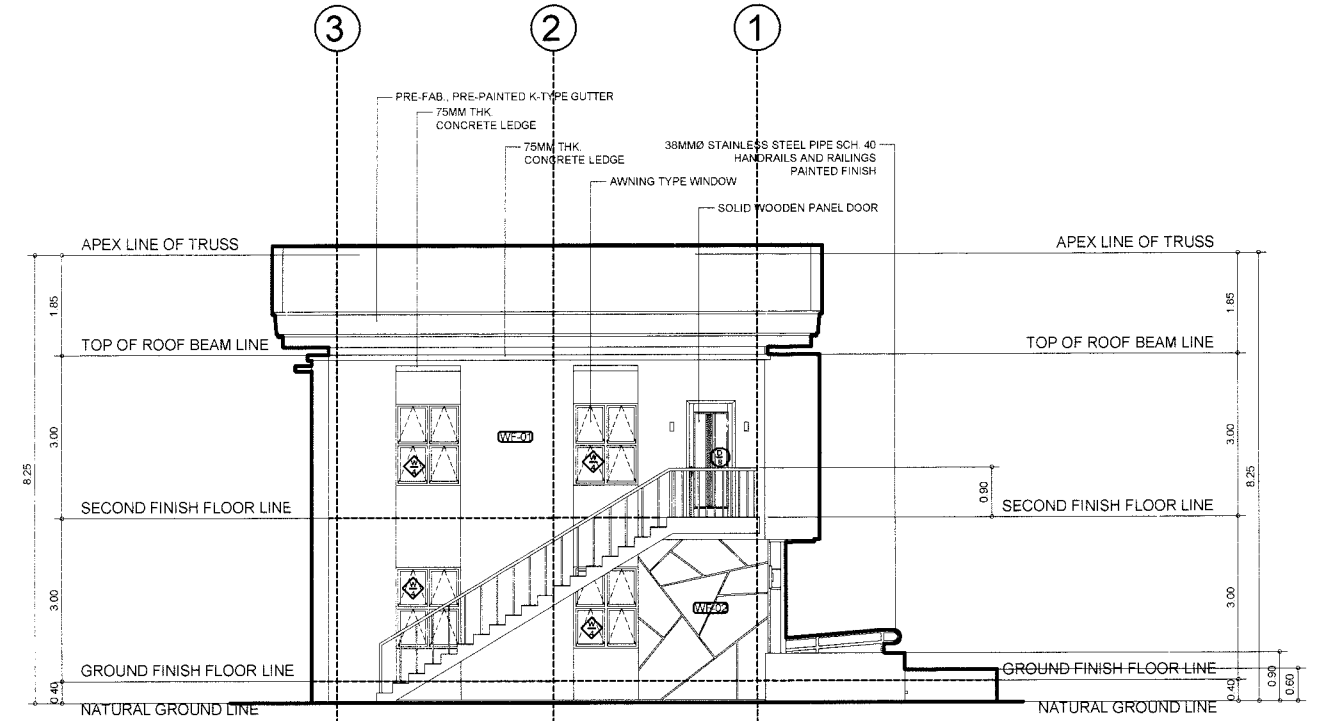


2 SECOND FLOOR PLAN
A4 SCALE 1:80 MTS

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION XI DAVAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE TAGUM, CITY	PROJECT & LOCATION CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL), BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE	GROUND FLOOR PLAN SECOND FLOOR PLAN SCHEDULE OF FINISHES	DRAFTED WARREN S. RINEZ ENGINEER II	REVIEWED HERWIN EVAN J. HABABAG ENGINEER II	SUBMITTED JEZABELE TULUNG, MPA CHIEF, PLANNING & DESIGN SECTION	RECOMMENDED GARRY E. VERANO OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER	APPROVED ARTURO P. LONGYAPONG DISTRICT ENGINEER	SET NO.:	SHEET NO.:
			PREPARED BENILDA S. PACQUIAO ENGINEER II	DATE:	DATE:	DATE:	DATE:		



3 REAR ELEVATION
A5 SCALE 1:80 MTS

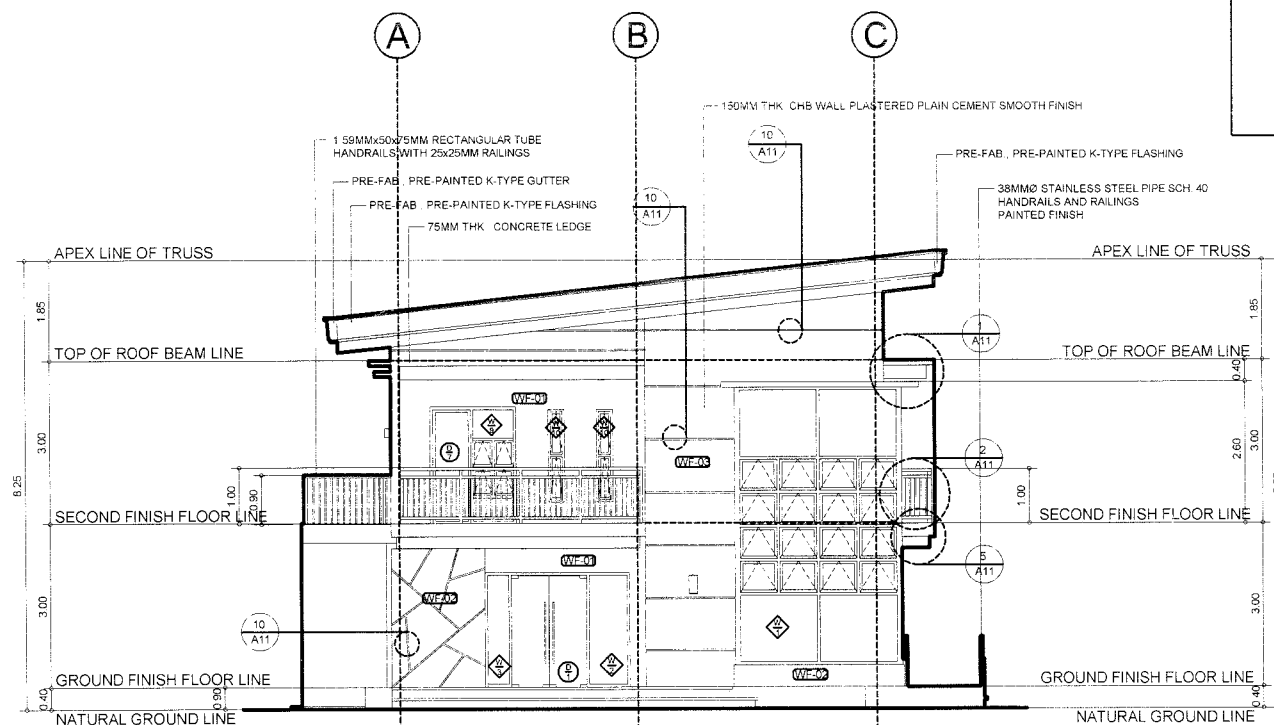


4 LEFT SIDE ELEVATION
A5 SCALE 1:80 MTS

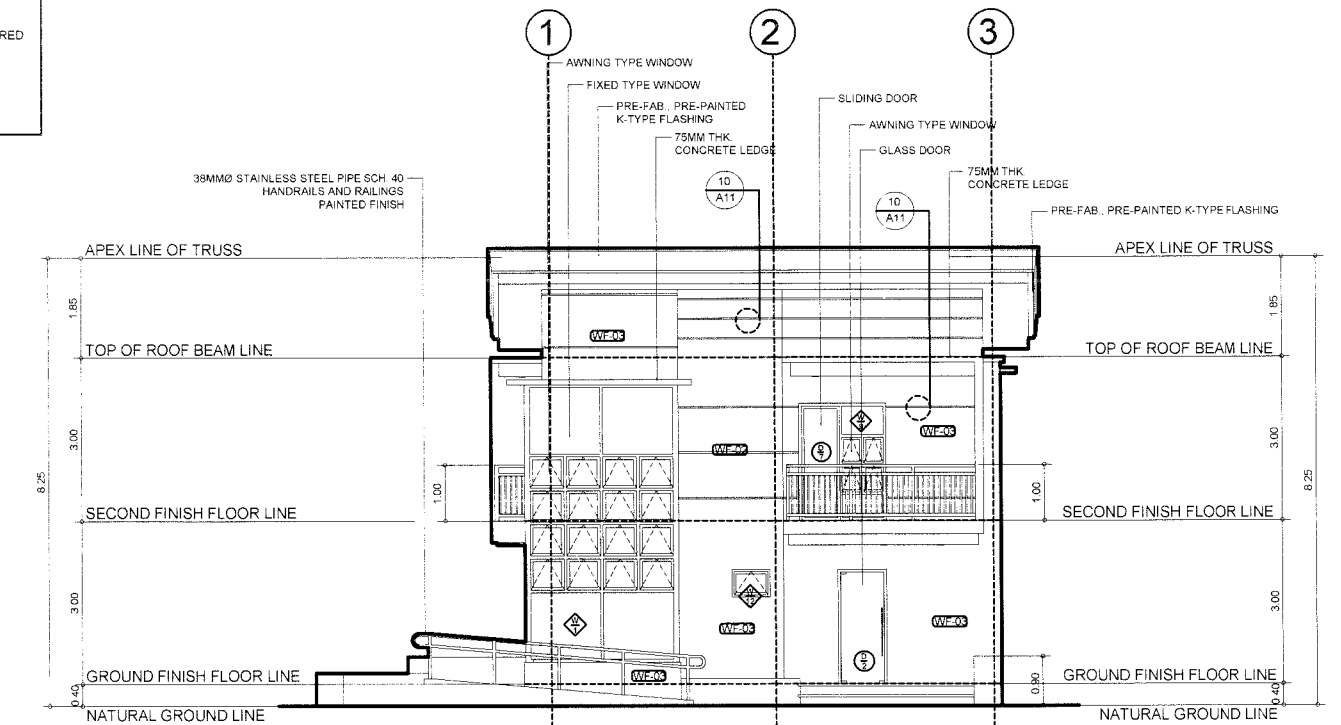
SCHEDULE OF FINISHES

WALL FINISH

- WF-01 100MM THK. CHB WALL PLAIN CEMENT SMOOTH FINISH
- WF-02 150MM THK. CHB WALL PLASTERED PLAIN CEMENT SMOOTH FINISH WITH 25X25MM DRIP GROOVE
- WF-03 150MM THK. CHB WALL PLAIN CEMENT SMOOTH FINISH



1 FRONT ELEVATION
A5 SCALE 1:80 MTS



2 RIGHT SIDE ELEVATION
A5 SCALE 1:80 MTS



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION

CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE

FRONT ELEVATION
REAR ELEVATION
LEFT SIDE ELEVATION
RIGHT SIDE ELEVATION
SCHEDULE OF FINISHES

DRAFTED

WARREN S. PIÑEZ
ENGINEER II

PREPARED BY

BENILDA S. PACQUIAO
ENGINEER II

REVIEWED

HERWIN EVAN J. HABABAG
ENGINEER II

DATE

SUBMITTED

JEZABEL E. TULING, MPA
CHIEF, PLANNING & DESIGN SECTION

DATE

RECOMMENDED

GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

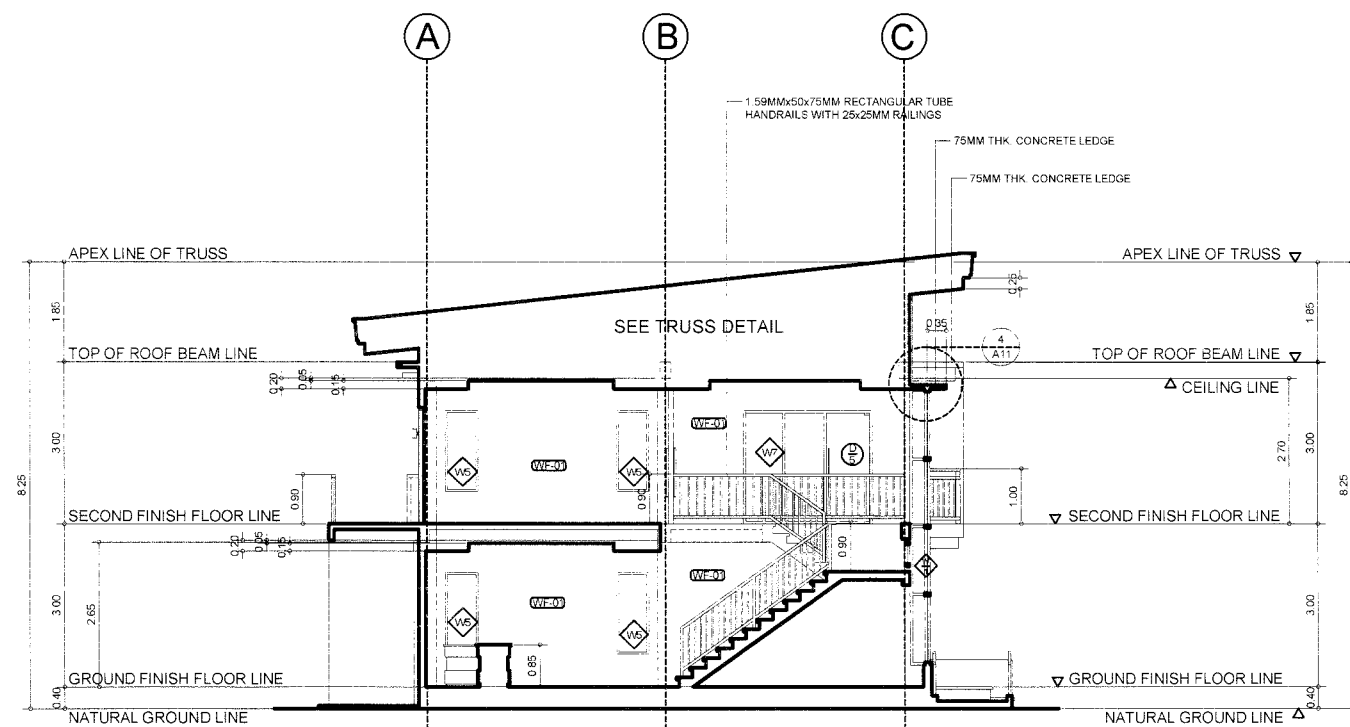
ARTURO P. LONGYAPON
DISTRICT ENGINEER

DATE

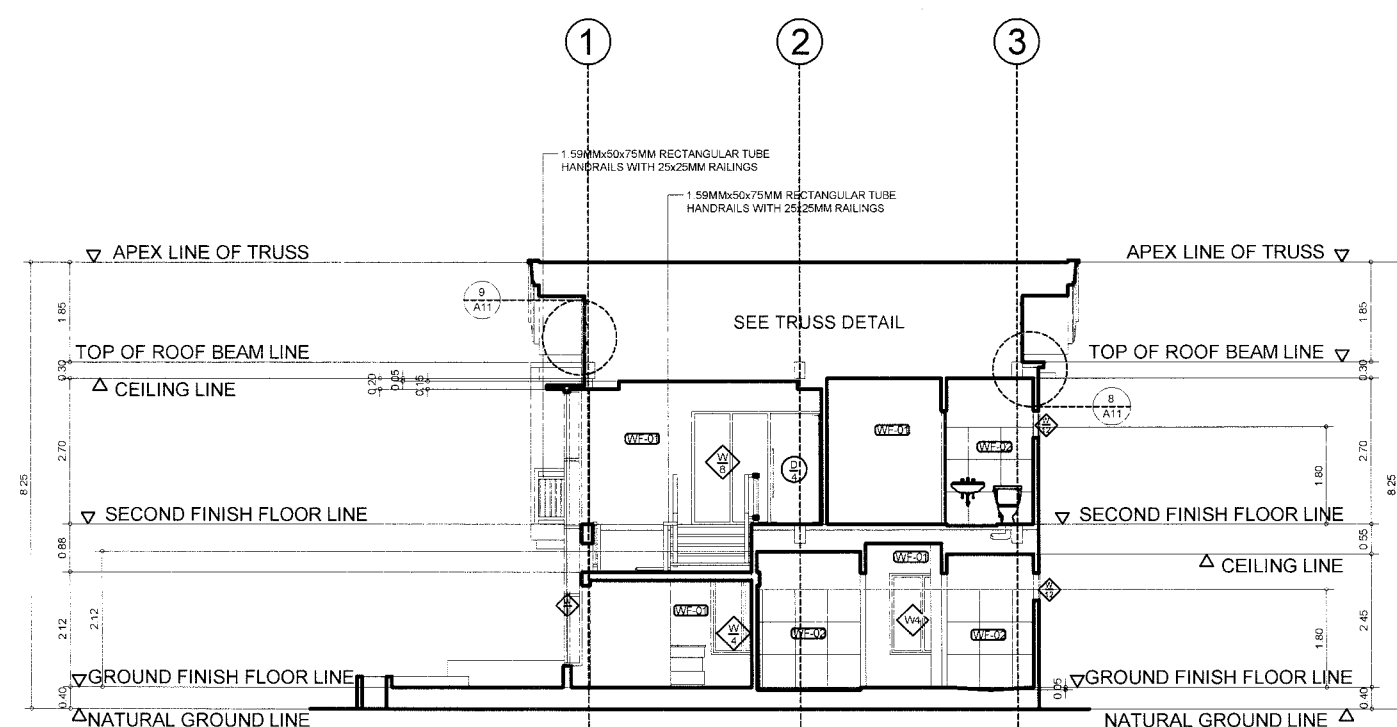
SET NO.

SHEET NO.

SCHEDULE OF FINISHES	
WALL FINISH:	
WF-01	100MM THK. CHB. WALL PLAIN CEMENT PAINTED SMOOTH FINISH
WF-02	100MM THK. CHB WALL WITH 600X600MM GLAZED WALL TILES
WF-03	150MM THK. CHB. WALL PLAIN CEMENT PAINTED SMOOTH FINISH

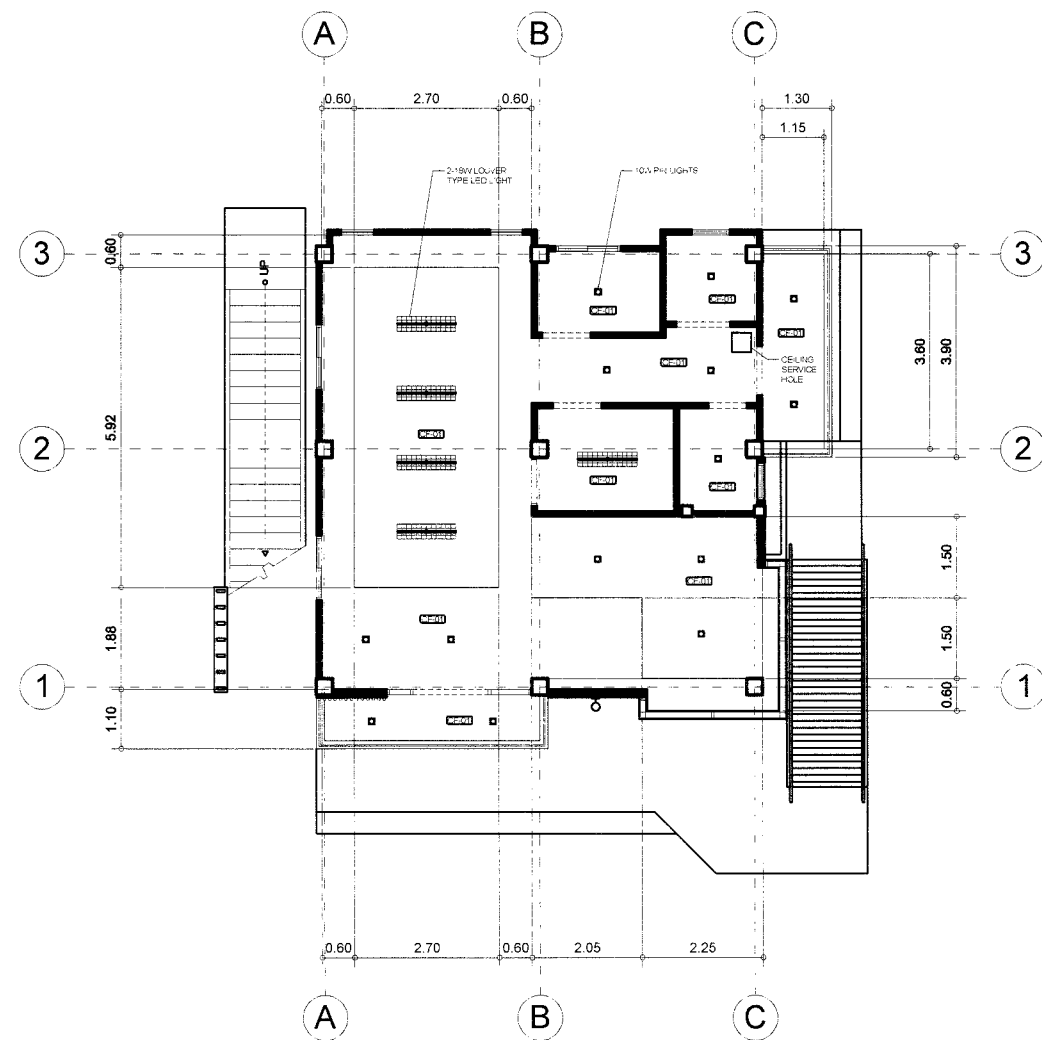


1 CROSS SECTION
A6 SCALE 1:80 MTS



2 LONGITUDINAL SECTION
A6 SCALE 1:80 MTS

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION XI DAVAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE TAGUM CITY	PROJECT & LOCATION: CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL), BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE	CROSS SECTION LONGITUDINAL SECTION SCHEDULE OF FINISHES	DRAFTED: WARREN S. PINEZ ENGINEER II	REVIEWED: HERWIN EVAN J. HABABAG ENGINEER II	SUBMITTED: JEZABEL E. TULING, MPA CHIEF, PLANNING & DESIGN SECTION	RECOMMENDED: GARRY E. VERANO OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER	APPROVED: ARTURO P. LONGYAPON DISTRICT ENGINEER	SET NO.:	SHEET NO.:
			PREPARED: BENILDA S. PACQUIAO ENGINEER II	DATE:	DATE:	DATE:	DATE:		



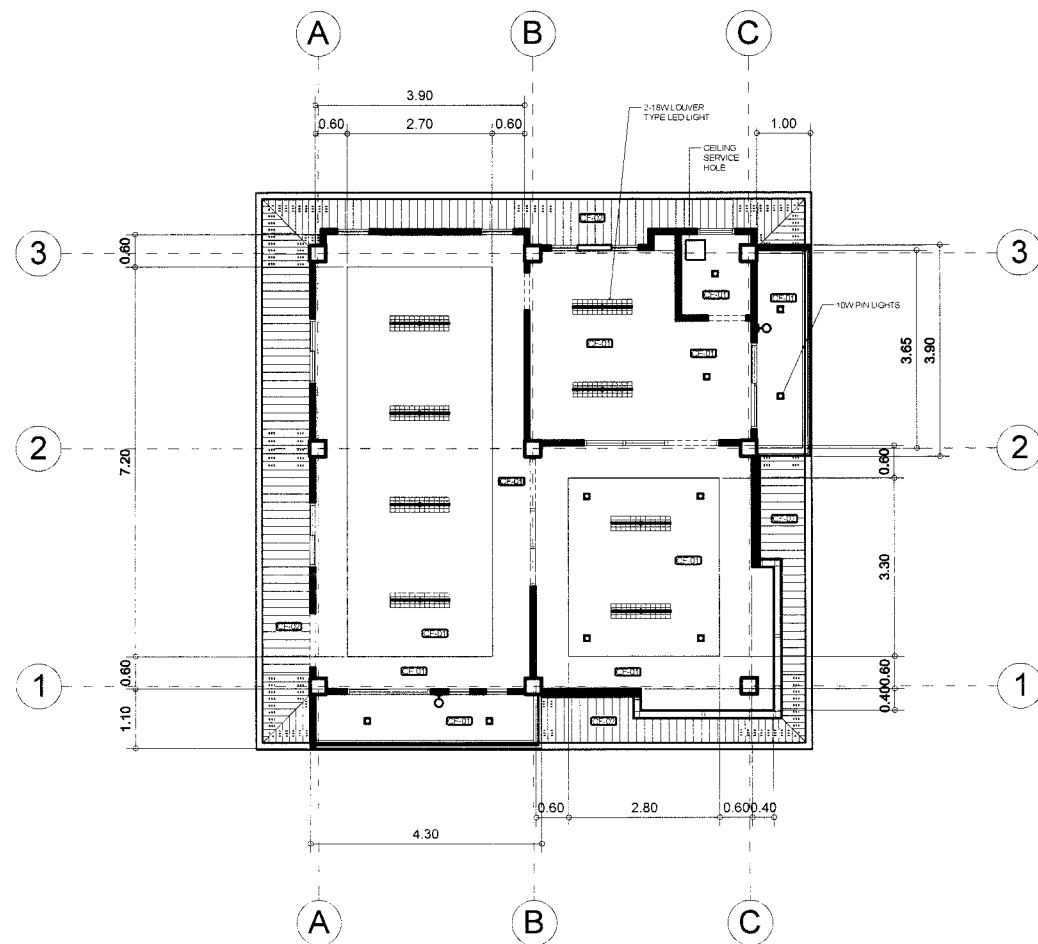
1
A7
GRND. FLR. REFLECTED CEILING PLAN
SCALE 1:80 MTS

SCHEDULE OF FINISHES

CEILING FINISH

W-2501 4.5mm THK
FIBER CEMENT CEILING BOARD
ON METAL CARRYING CHANNEL
(CEILING JOIST)
19mm X 50mm X 5m X 0.8mm THK
AT 1200mm O.C. WITH
METAL DOUBLE FURRING CHANNEL
(NAILER)
19mm X 50mm X 5m X 0.8m THK @
400mm O.C. PAINTED FINISH
INSIDE CEILING

W-2502 METAL RIB SPANDREL IN
PRE-PAINTED FINISH



2
A7
2ND. FLR. REFLECTED CEILING PLAN
SCALE 1:80 MTS



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION:

**CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE**

GRND. FLR. REFLECTED CEILING PLAN
2ND. FLR. REFLECTED CEILING PLAN
SCHEDULE OF FINISHES

DRAFTED

WARREN S. PINEZ
ENGINEER II

PREPARED:

BENILDA S. PACQUIAO
ENGINEER II

REVIEWED:

HERWIN EVAN J. HABABAO
ENGINEER II

DATE:

SUBMITTED

JEZABEL E. TULING, MPA
CHIEF, PLANNING & DESIGN SECTION

DATE:

RECOMMENDED

GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

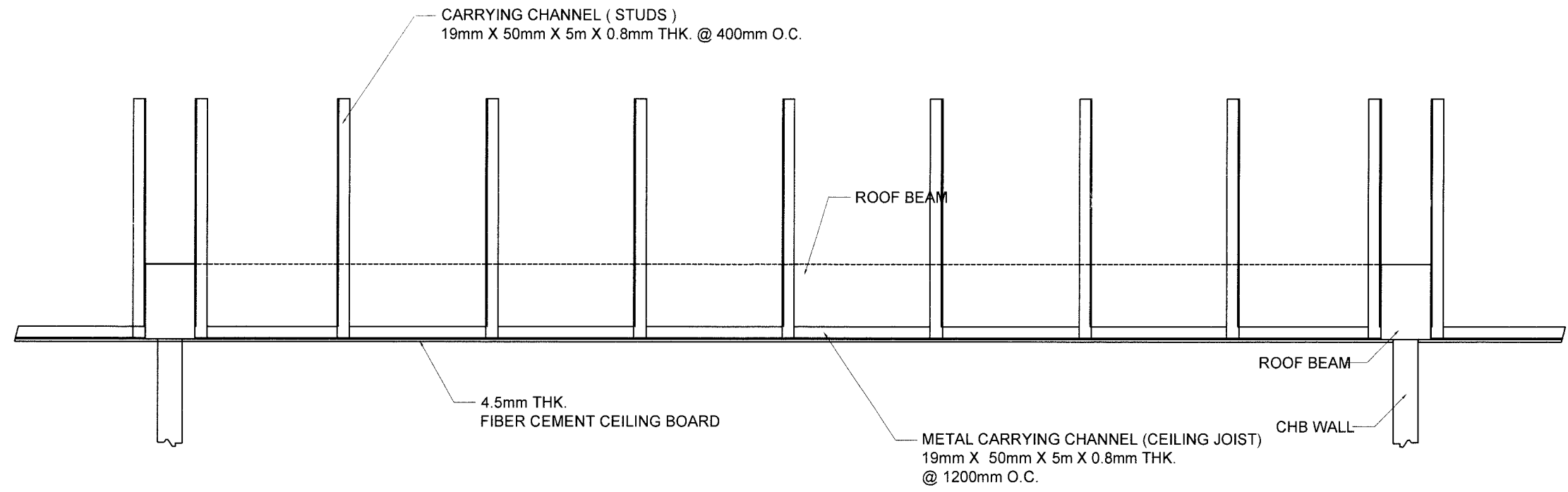
APPROVED:

ARTURO P. LONGYAPON
DISTRICT ENGINEER

DATE:

SET NO.:

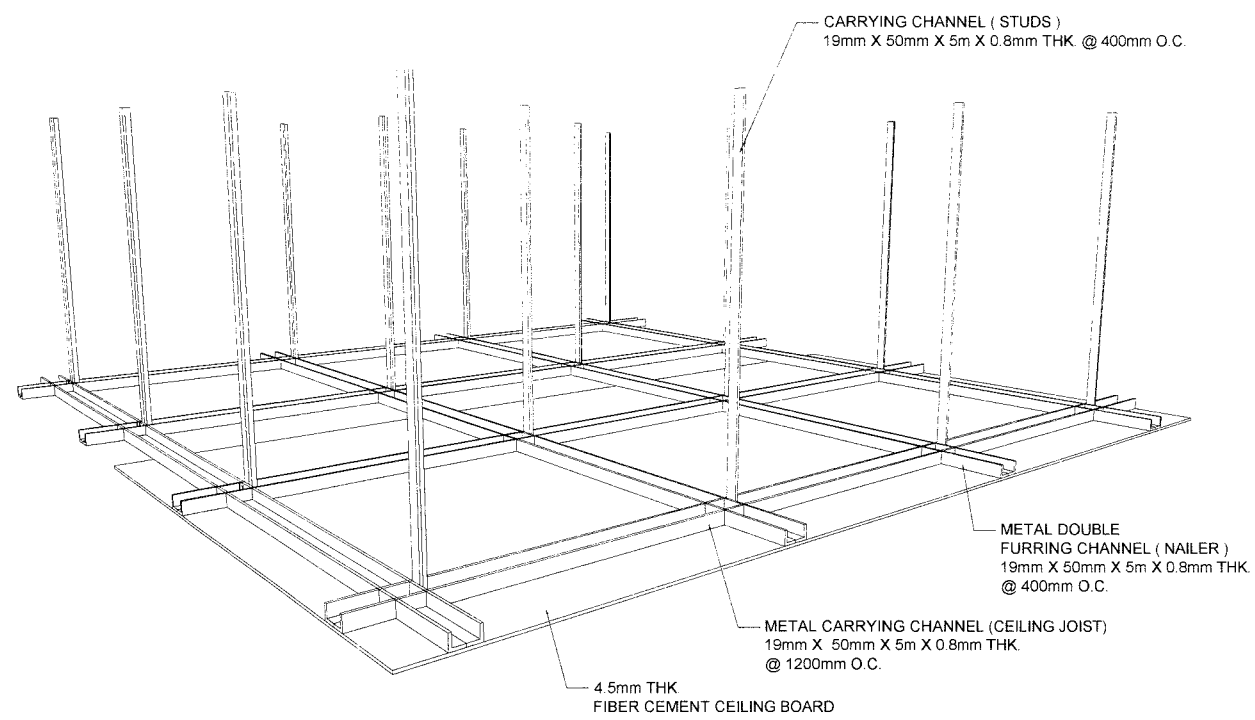
SHEET NO.:



2
A8

CEILING SECTION

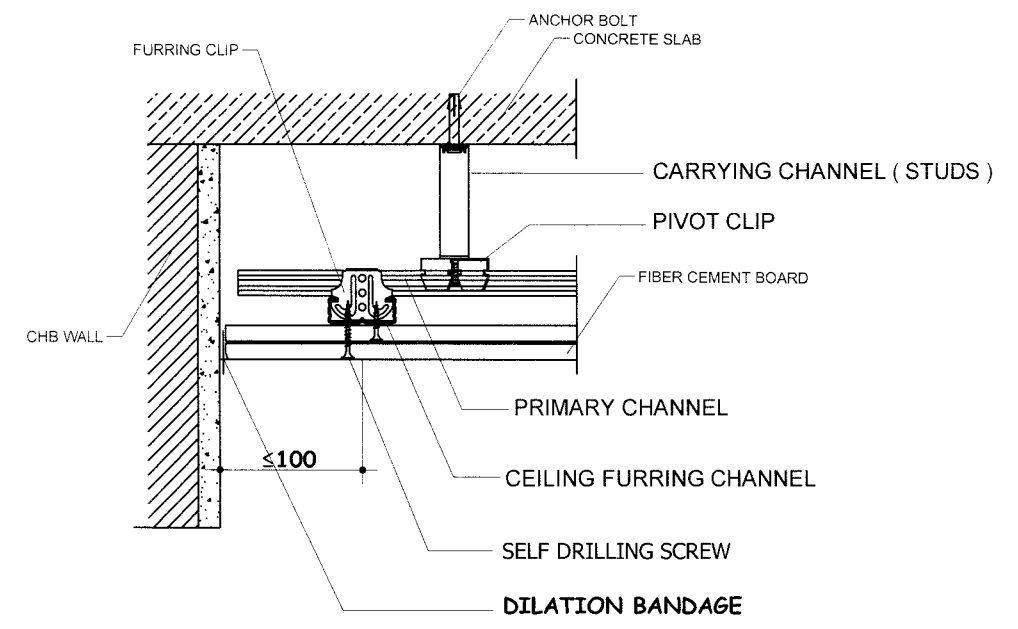
D N T S



1
A8

CEILING PERSPECTIVE

NOT TO SCALE

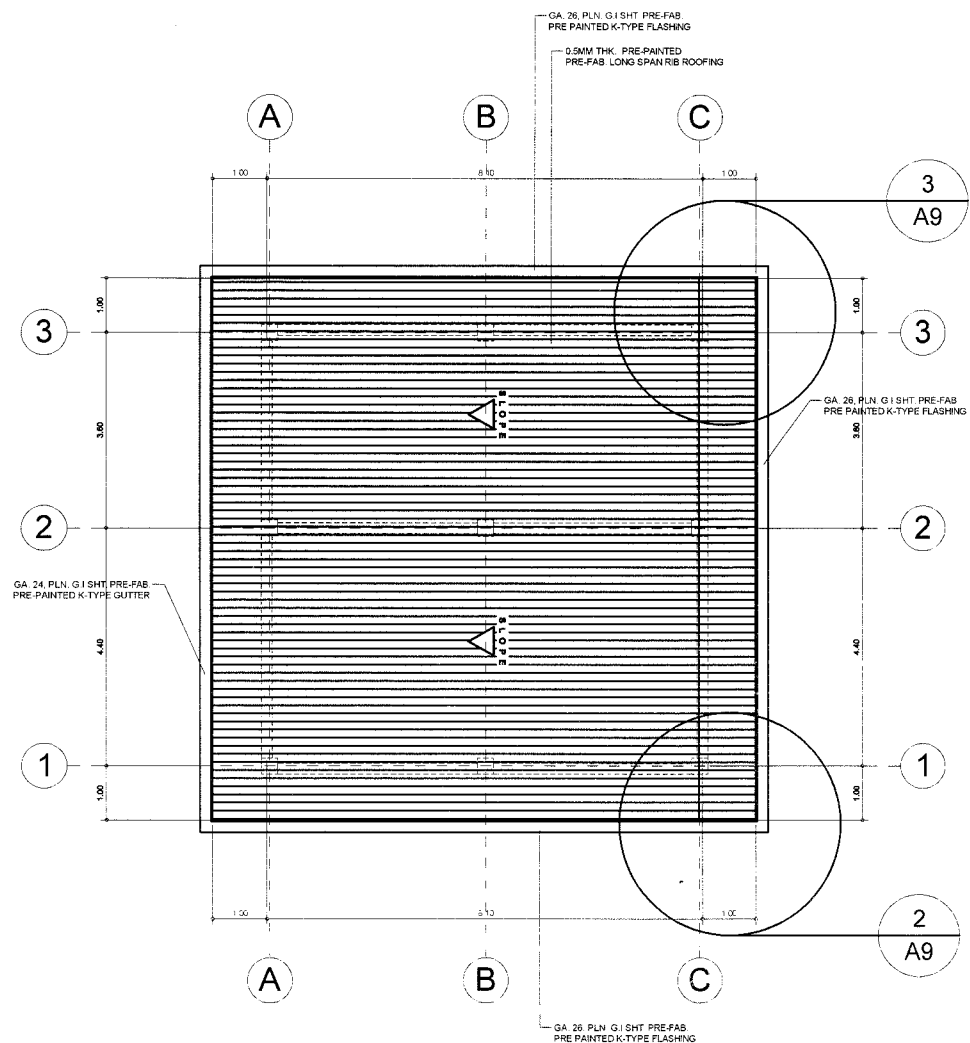


3
A8

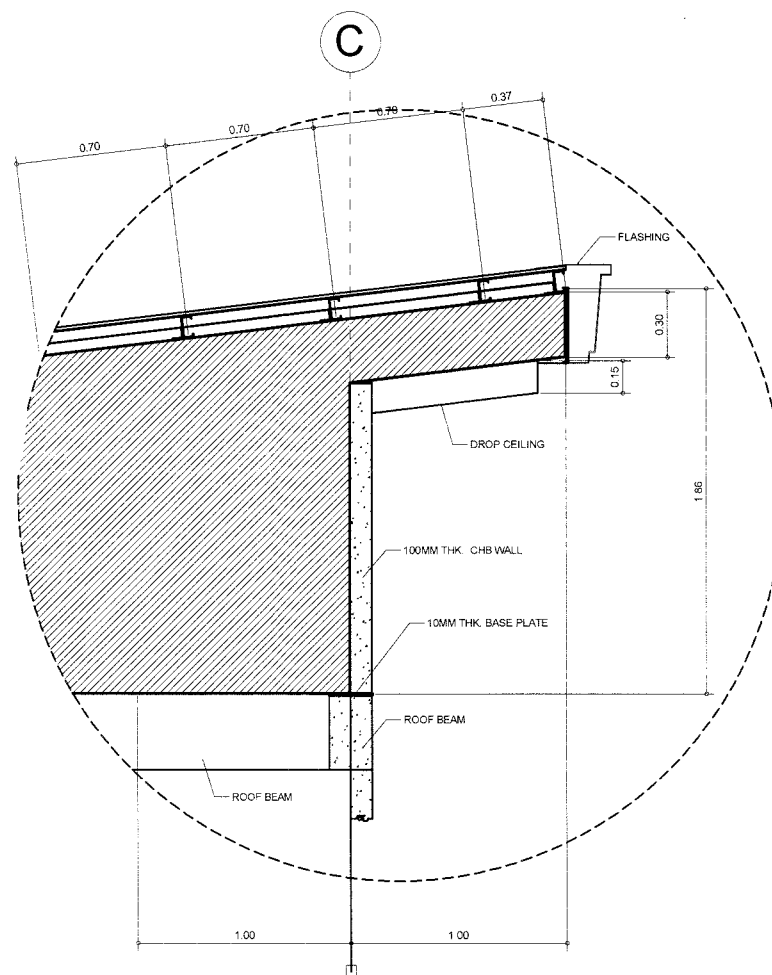
CEILING ANCHORAGE DET.

SCALE 1:3M.

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION XI DAVAO DEL NORTE 2ND DISTRICT ENGINEERING OFFICE TAGUM CITY	PROJECT & LOCATION CONSTRUCTION OF MULTI-PURPOSE BUILDING (BARANGAY HALL), BARANGAY TIBULAO, CARMEN, DAVAO DEL NORTE	CEILING PERSPECTIVE CEILING SECTION CEILING ANCHORAGE DET.	DRAFTED WARREN S. PIÑEZ ENGINEER II PREPARED BENILDA S. PACQUIAO ENGINEER II	REVIEWED HERWIN EVAN J. HABABAO ENGINEER II DATE	SUBMITTED JEZABEL E. TULING, MPA CHIEF, PLANNING & DESIGN SECTION DATE	RECOMMENDED GARRY E. VERANO OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER DATE	APPROVED ARTURO P. LONGYAPON DISTRICT ENGINEER DATE	SET NO.:	SHEET NO.:
--	---	---	--	--	--	--	---	-----------------	-------------------

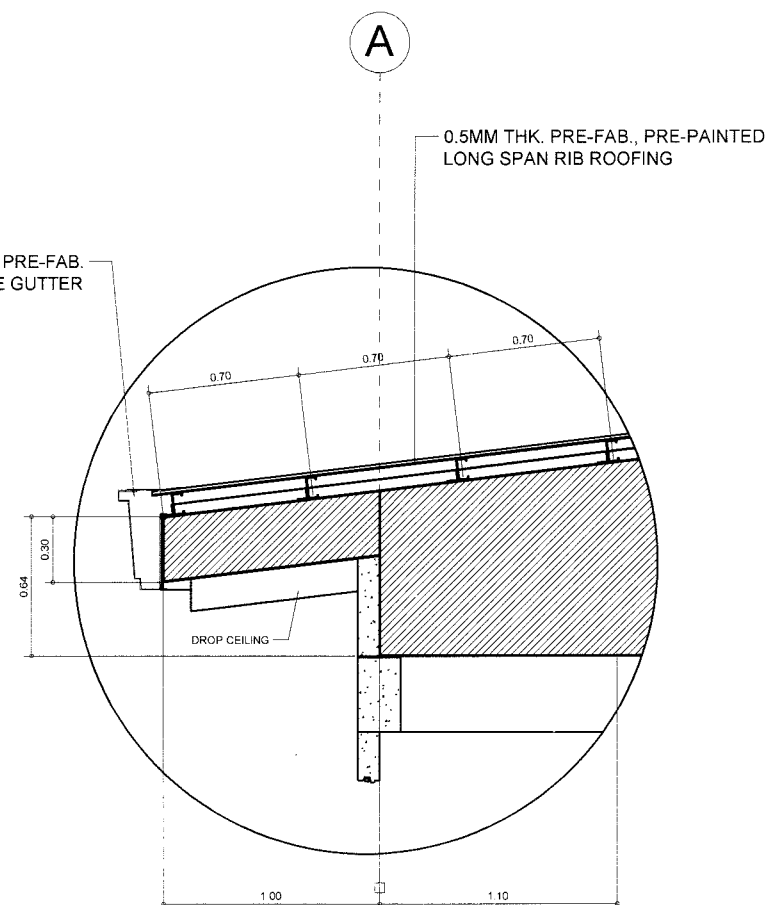


1 ROOF PLAN
A9 SCALE 1:80 MTS



2 BLOW-UP DETAIL
A9 SCALE 1:30M.

GA. 24, PLN. G.I SHT. PRE-FAB. PRE-PAINTED K-TYPE GUTTER



3 BLOW-UP DETAIL
A9 SCALE 1:30M.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION

CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE

BLOW-UP DETAIL
ROOF PLAN

DRAFTED

WARDEN S. PINEZ
ENGINEER II

PREPARED

BENILDA S. PACQUIAO
ENGINEER II

REVIEWED

HERWIN EVAN J. HABABAG
ENGINEER II

DATE

SUBMITTED

JEZABEL E. TULING, MPA
CHIEF, PLANNING & DESIGN SECTION

DATE

RECOMMENDED

GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE

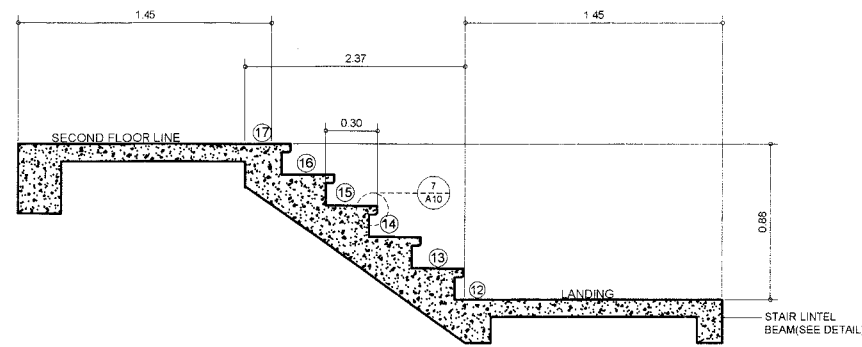
APPROVED

ARTURO P. LONGYAPON
DISTRICT ENGINEER

DATE

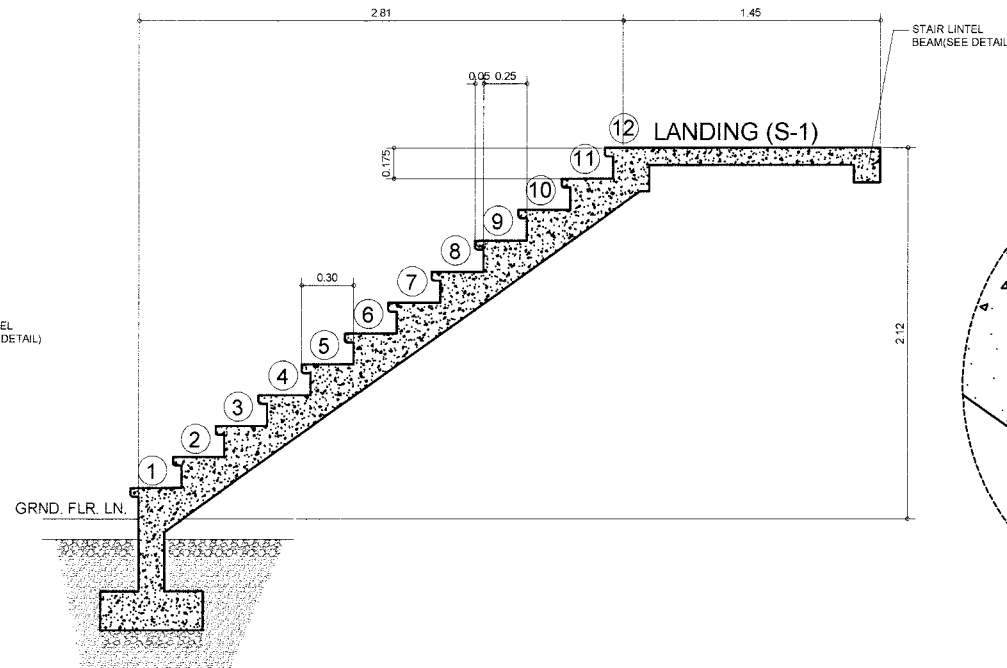
SET NO.

SHEET NO.



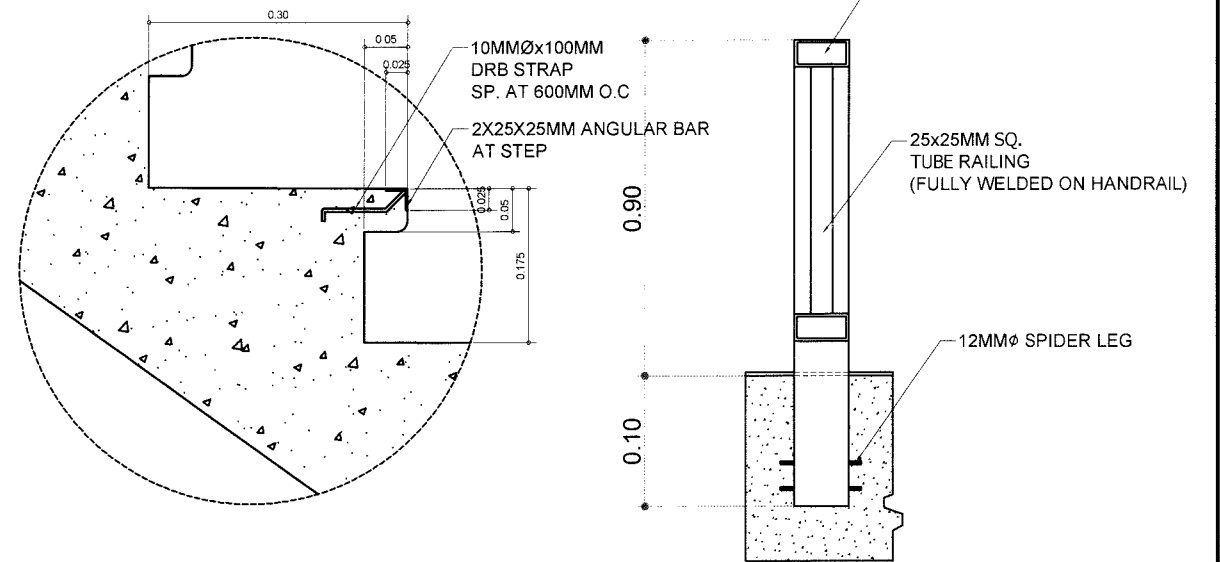
STAIR PLAN SECTION DETAIL

4 (LANDING TO SECOND FLOOR) SCALE 1: 25 MTS



STAIR PLAN SECTION DETAIL

5 (GROUND FLOOR TO LANDING) SCALE 1: 25 MTS

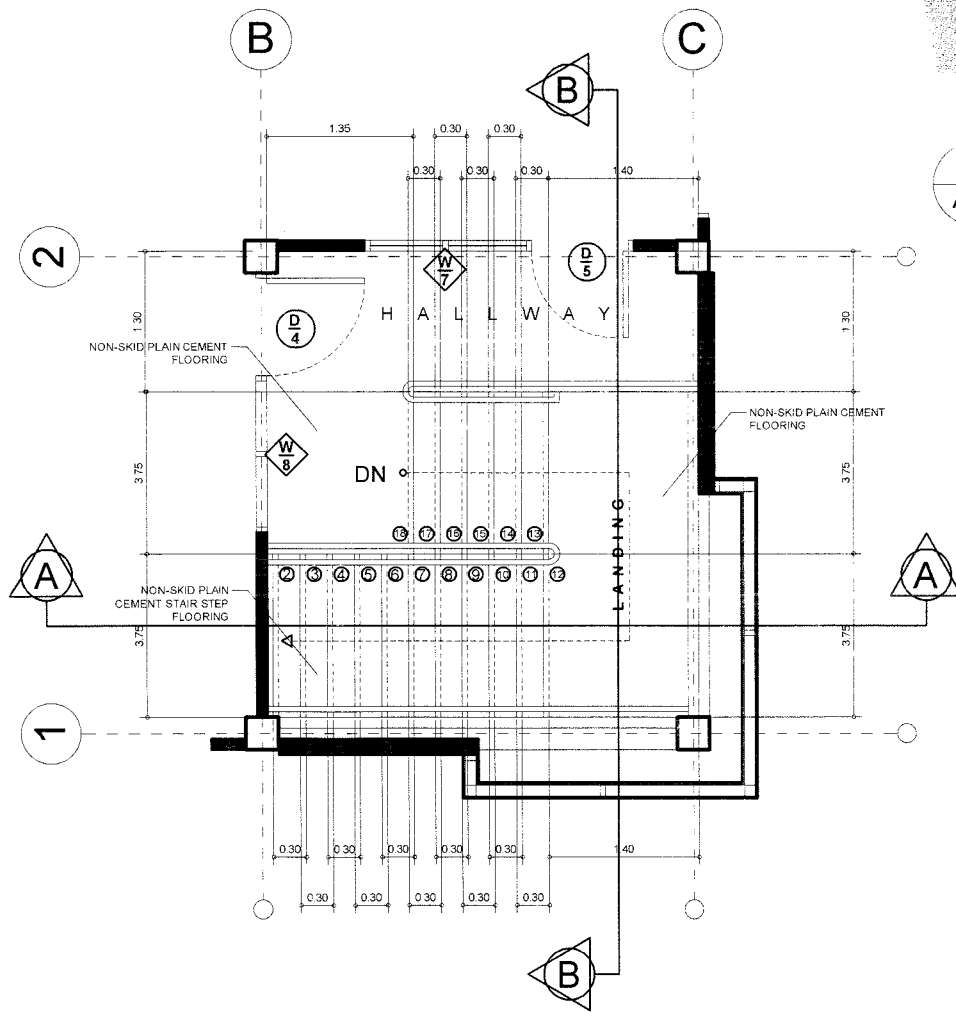


NOSING DETAIL

SCALE 1:5 M.

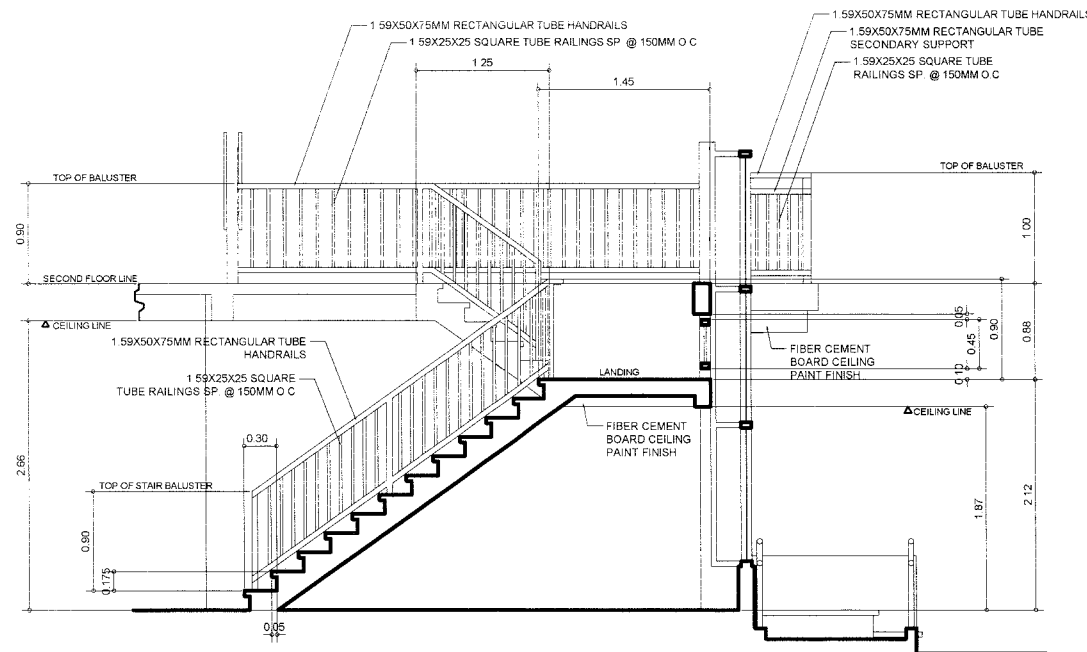
RAILINGS ANC. DET.

SCALE 1:5 MTS



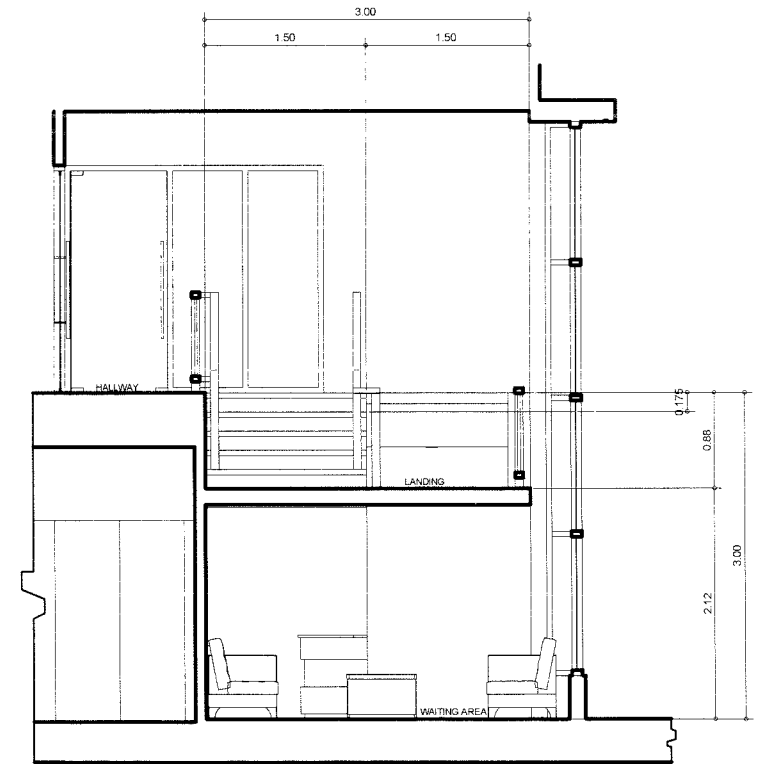
STAIR LAYOUT PLAN

SCALE 1:40 MTS



STAIR SECTION "A"

SCALE 1:40 MTS



STAIR SECTION "B"

SCALE 1:40 MTS



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION:

CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE

STAIR LAYOUT PLAN
STAIR SECTION "A"
STAIR SECTION "B"
RAILINGS ANCHORAGE DET.
SECTIONAL DETAIL STAIR PLAN

DRAFTED:

WARREN S. PINEZ
ENGINEER II

PREPARED:

BENILDA S. PACQUIAO
ENGINEER II

REVIEWED:

HERWIN EVAN J. HABABAO
ENGINEER II
DATE:

SUBMITTED:

JEZABEL E. TULING, MPA
CHIEF, PLANNING & DESIGN SECTION
DATE:

RECOMMENDED:

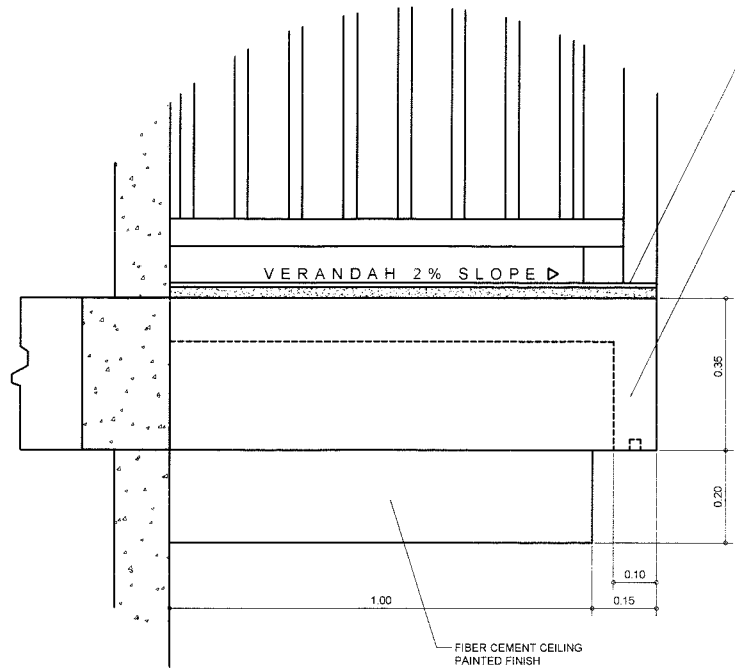
GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

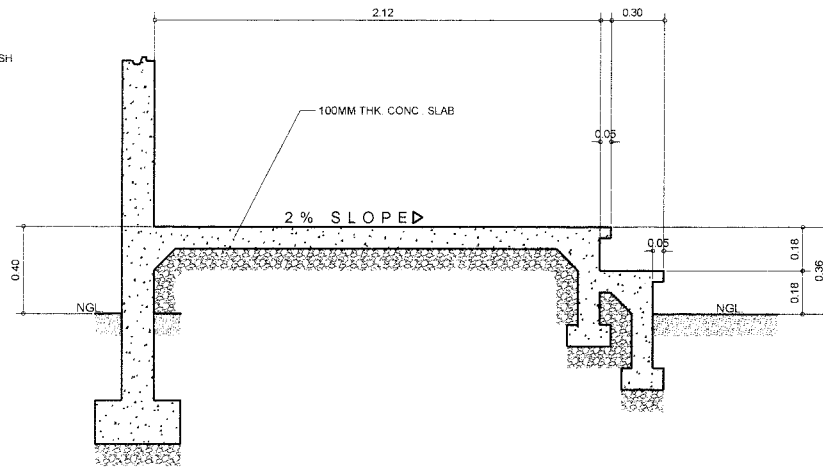
ARTURO P. LONGYAPON
DISTRICT ENGINEER
DATE:

SET NO.:

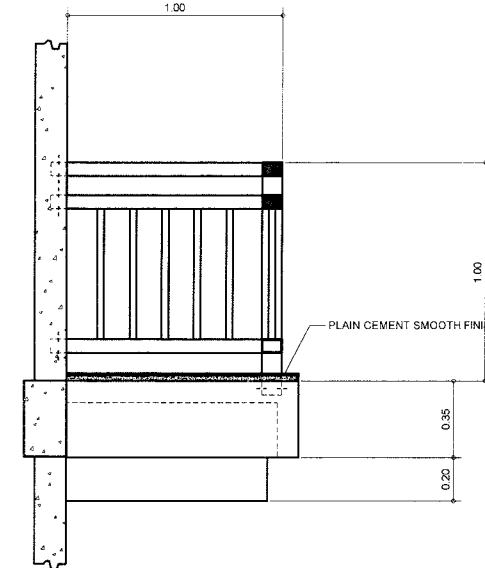
SHEET NO.:



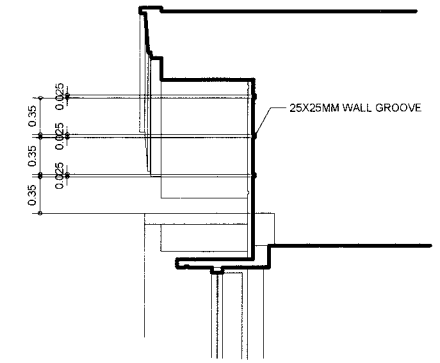
5 BLOW-UP DETAIL
A11 SCALE 1:10 MTS.



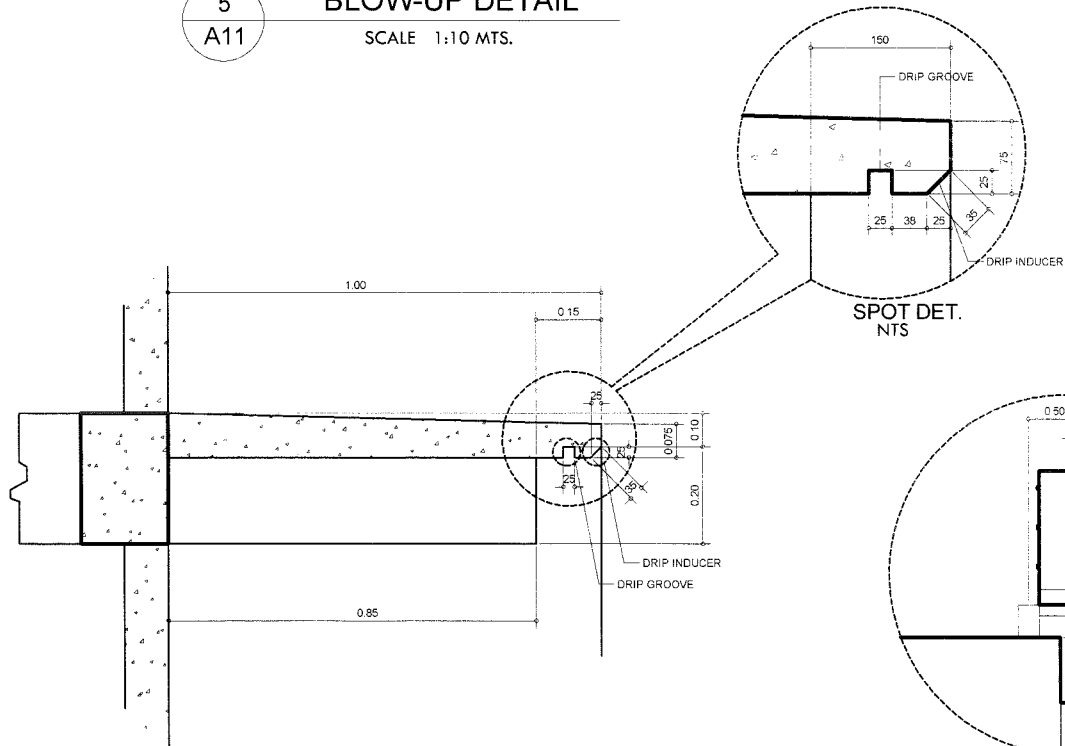
6 DET. OF STAIR ON GRADE "A"
A11 SCALE 1:20 MTS.



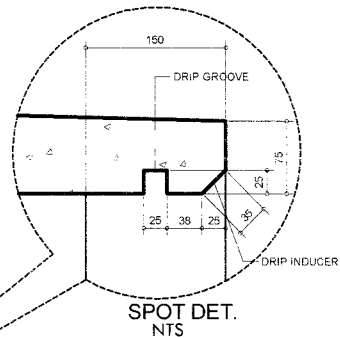
2 BLOW-UP DETAIL
A11 SCALE 1:20 MTS.



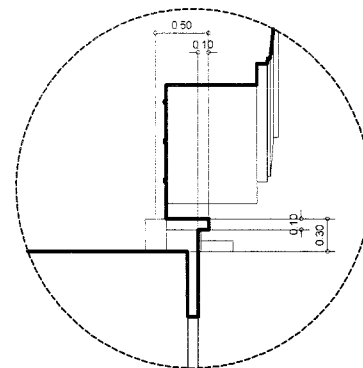
9 BLOW-UP DETAIL
A11 SCALE 1:40 MTS.



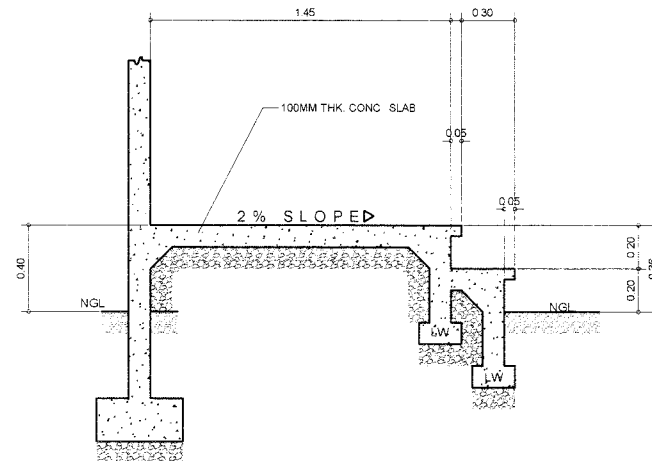
1 BLOW-UP DETAIL
A11 SCALE 1:10 MTS.



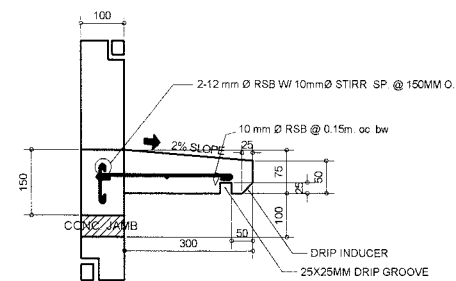
SPOT DET. NTS



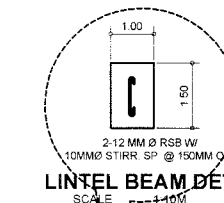
8 BLOW-UP DETAIL
A11 SCALE 1:40 MTS.



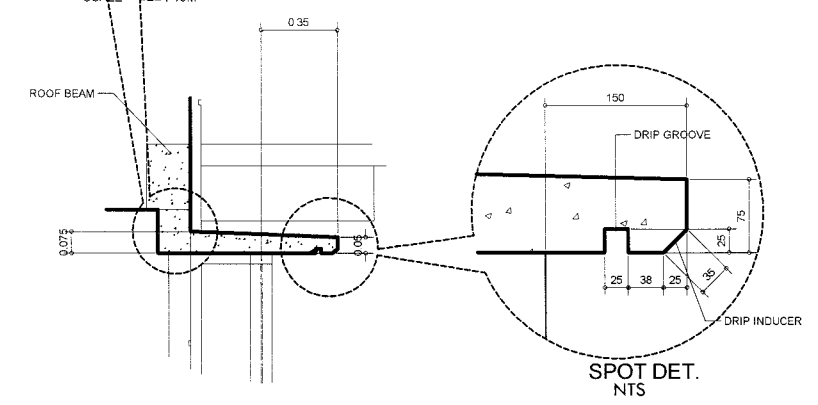
7 DET. OF STAIR ON GRADE "B"
A11 SCALE 1:20 MTS.



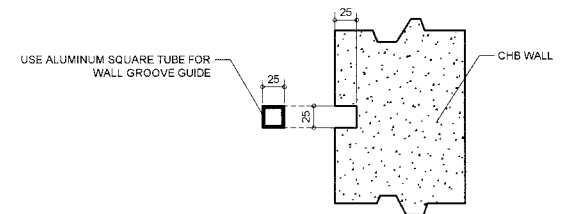
3 CONC. LEDGE DETAIL
A11 SCALE 1:10M.



LINTEL BEAM DET.
SCALE 1:10M



4 BLOW-UP DETAIL
A11 SCALE 1:20 MTS.



10 WALL GROOVE PATTERN DET.
A11 SCALE 1:5 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI

DAVAO DEL NORTE
2ND DISTRICT ENGINEERING OFFICE
TAGUM CITY

PROJECT & LOCATION:
**CONSTRUCTION OF MULTI-PURPOSE
BUILDING (BARANGAY HALL),
BARANGAY TIBULAO,
CARMEN, DAVAO DEL NORTE**

BLOW-UP DETAIL "C"
BLOW-UP DETAIL "B"
DETAIL "G"
BLOW-UP DETAIL "A"
DET. OF STAIR ON GRADE "B"
DET. OF STAIR ON GRADE "A"
BLOW-UP DETAIL "H"
BLOW-UP DETAIL "I"
WALL GROOVE PATTERN DET.
CONC. LEDGE DETAIL

DRAFTED
WARREN S. PINEZ
ENGINEER II

PREPARED
BENILDA S. PACQUIAO
ENGINEER II

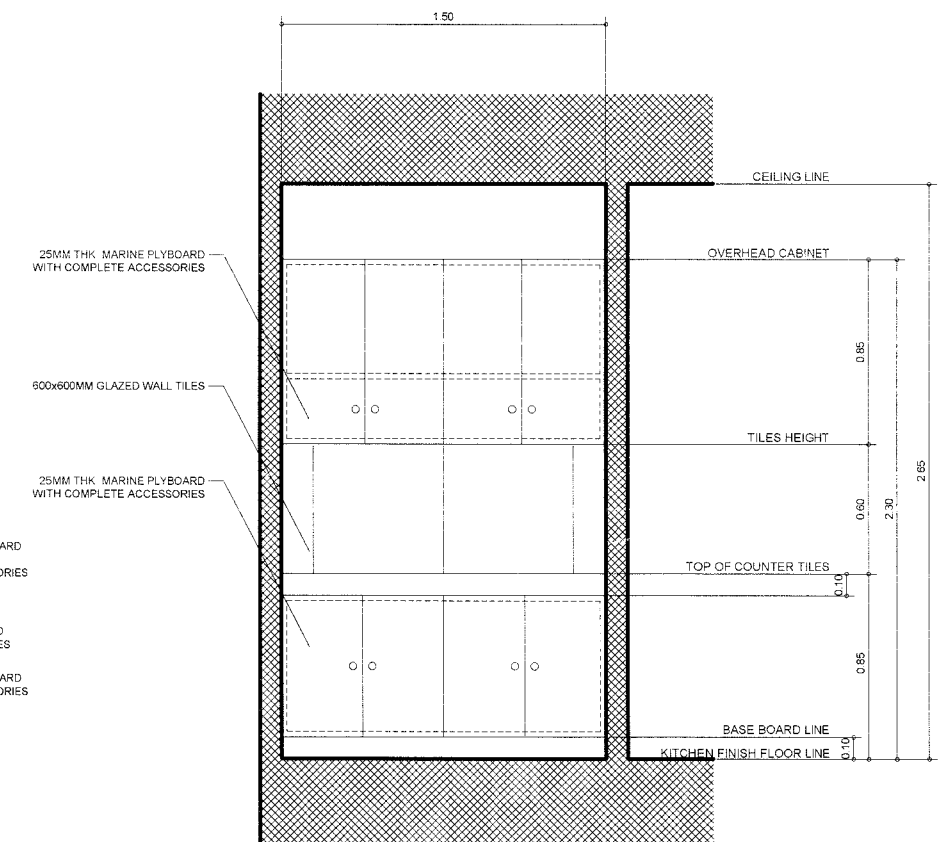
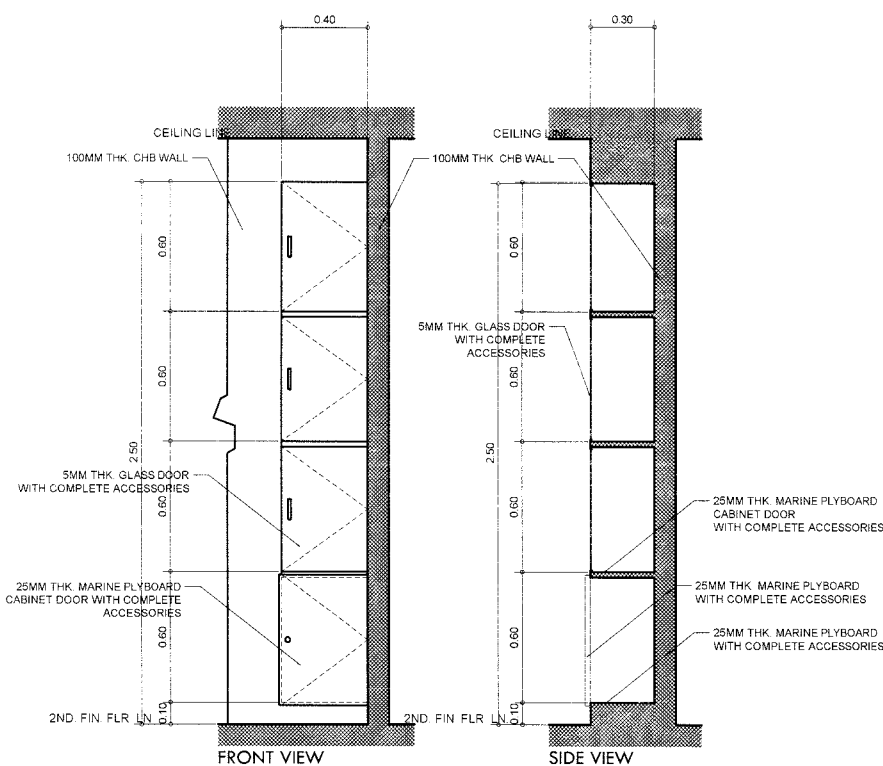
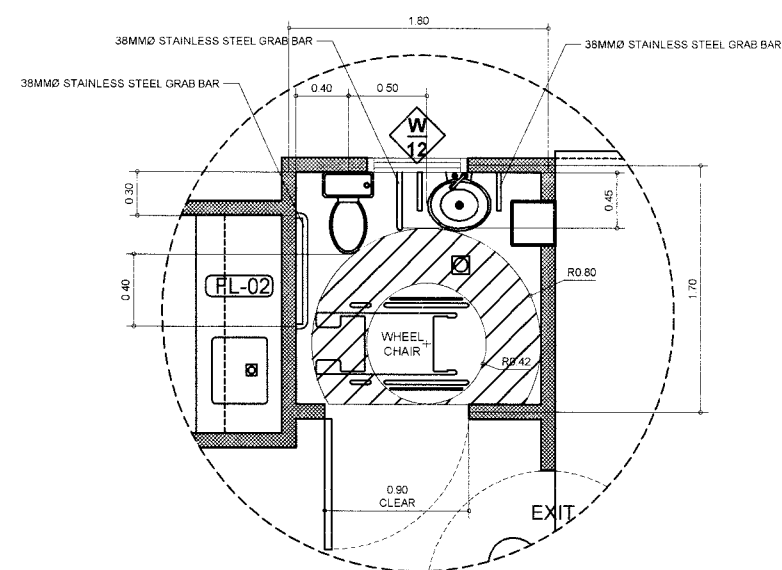
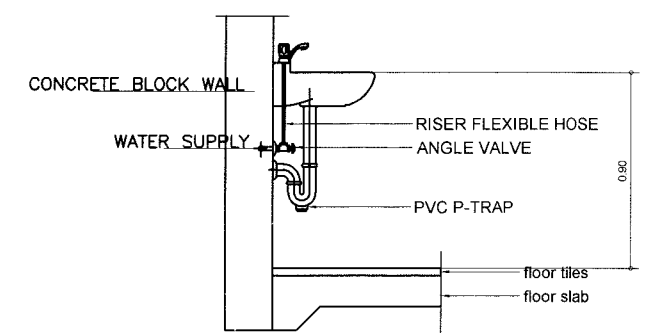
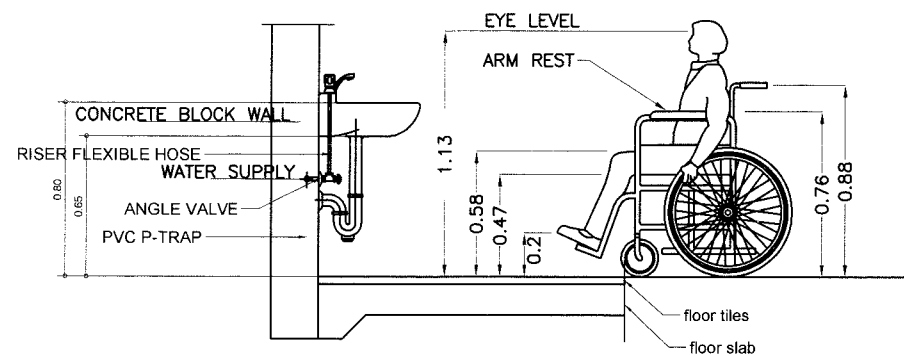
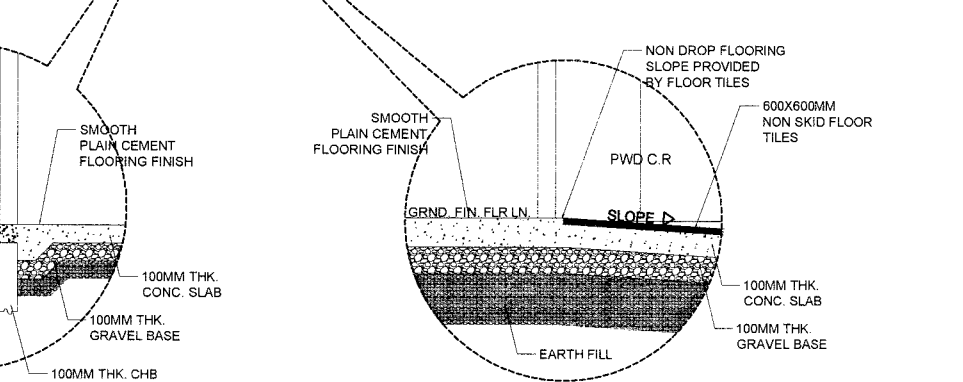
REVIEWED
HERWIN EVAN J. HABABAO
ENGINEER II
DATE

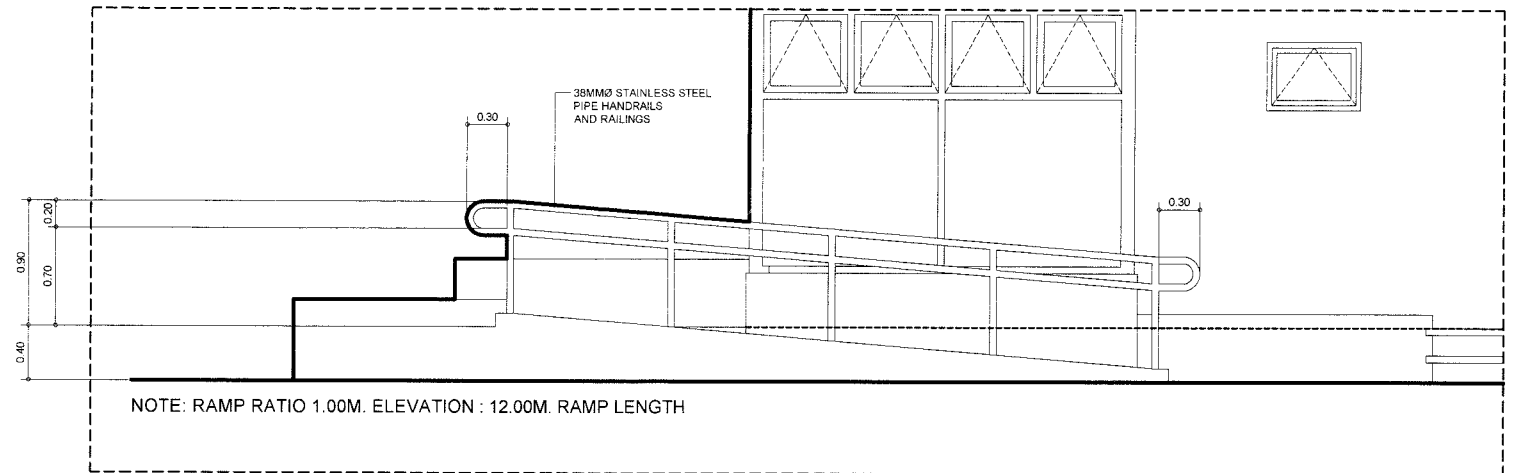
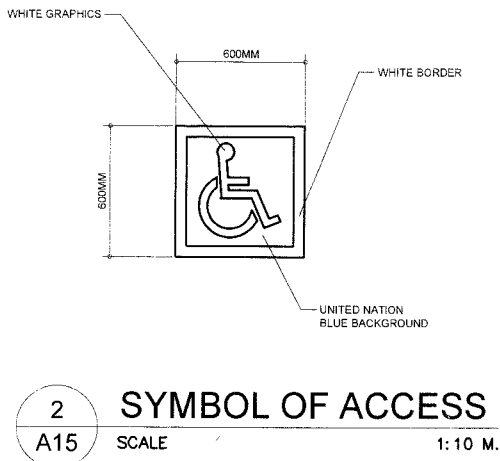
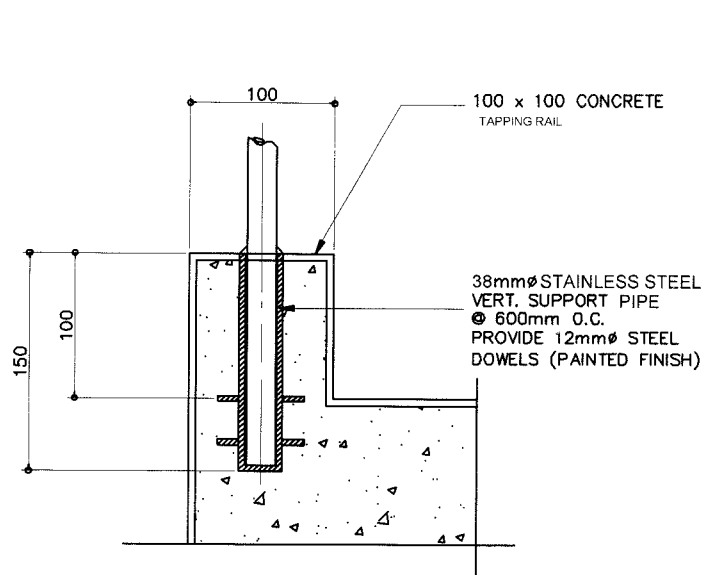
SUBMITTED
JEZABEL E. TUONG, MPA
CHIEF, PLANNING & DESIGN SECTION
DATE

RECOMMENDED
GARRY E. VERANO
OIC-OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE

APPROVED
ARTURO P. LONGYAPON
DISTRICT ENGINEER
DATE

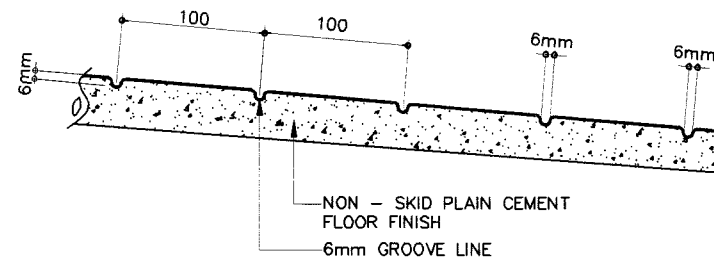
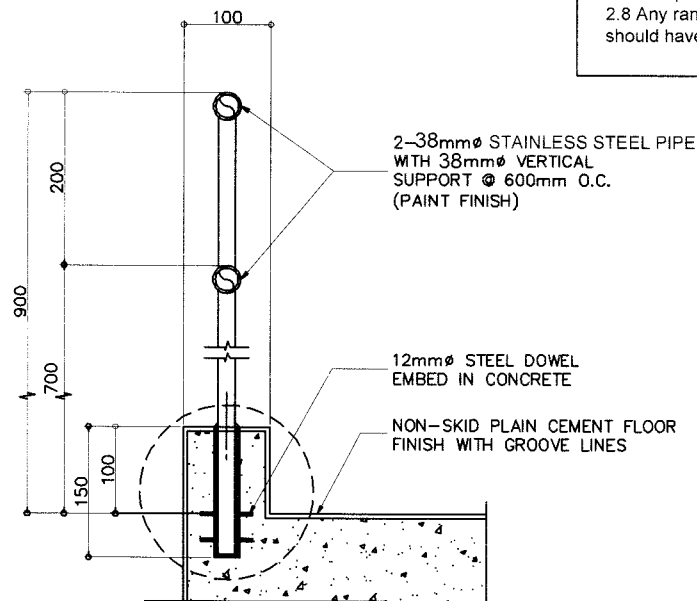
SET NO.:
SHEET NO.:





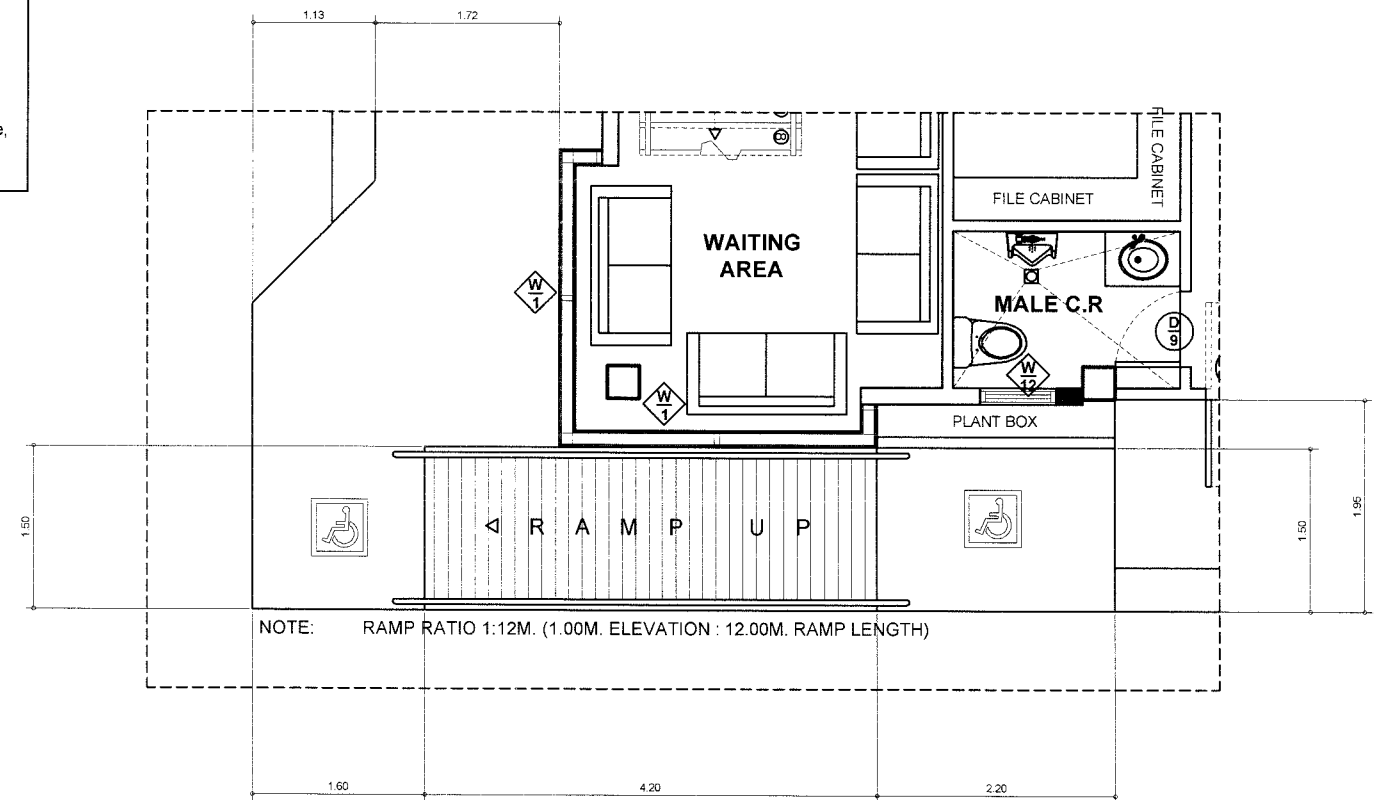
5 RAILING SPOT DETAIL
A15 SCALE 1:3 M.

NOTES:
 2.1 Changes in level require a ramp except when served by a dropped curb, an elevator or other mechanical device;
 2.2 Ramps shall have a minimum clear width of 1.20 m;
 2.3 The maximum gradient shall be 1:12;
 2.4 The length of a ramp should not exceed 6:00 m. if the gradient is 1:12; longer ramps whose gradient is 1:12 shall be provided with landings not less than 1.50 m;
 2.5 A level area not less than 1.80 m. should be provided at the top and bottom of any ramp;
 2.6 Handrails will be provided on both sides of the ramp at 0.70 m. and 0.90 m. from the ramp level;
 2.7 Ramps shall be equipped with curbs on both sides with a minimum height of 0.10 m.;
 2.8 Any ramp with a rise greater than 0.20 m. and leads down towards an area where vehicular traffic is possible, should have a railing across the full width of its lower end, not less than 1.80 meters from the foot of the ramp;



1 RAILINGS ANCHORAGE DET.
A15 SCALE 1:5 M.

4 RAMP SLAB SECTION
A15 SCALE 1:3 M.



7 RAMP ELEVATION
A15 SCALE 1:100M

3 RAMP PLAN
A15 SCALE 1:40M



Republic of the Philippines
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGION XI
 DAVAO DEL NORTE
 2ND DISTRICT ENGINEERING OFFICE
 TAGUM CITY

PROJECT & LOCATION:
**CONSTRUCTION OF MULTI-PURPOSE
 BUILDING (BARANGAY HALL),
 BARANGAY TIBULAO,
 CARMEN, DAVAO DEL NORTE**

RAILINGS ANCHORAGE DET.
 SYMBOL OF ACCESS
 RAMP PLAN
 RAMP SLAB SECTION
 RAILING SPOT DETAIL
 RAMP SLAB SECTION
 RAMP ELEVATION

DRAFTED

WARREN S. PINEZ
 ENGINEER II

PREPARED

BENILDA S. PACQUIAO
 ENGINEER II

REVIEWED

HERWIN EVAN J. HABABAG
 ENGINEER II

DATE

SUBMITTED

JEZABEL E. TULUNG, MPA
 CHIEF, PLANNING & DESIGN SECTION

DATE

RECOMMENDED

GARRY E. VERANO
 OIC OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

ARTURO P. LONGYAPON
 DISTRICT ENGINEER

DATE

SET NO.

SHEET NO.: