

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
OFFICE OF THE DISTRICT ENGINEER
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
Km.48 , NATIONAL HIGHWAY,TAGUM CITY

F.Y.2025 GAA-SIPAG PROJECT
DETAIL ENGINEERING DESIGN PLAN FOR

**CONSTRUCTION(COMPLETION) OF TAGUM CITY DIAGNOSTIC SOCIAL
SERVICES, COMPLEX,CITY HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE**

PROJECT NAME

TAGUM CITY, DAVAO DEL NORTE

LOCATION

SUBMITTED:

CHIRWEN P. NAZARENO
ENGINEER III
CHIEF, PLANNING & DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEX A. MABANGLO
OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

EDITHA G. MONTILDE
DISTRICT ENGINEER

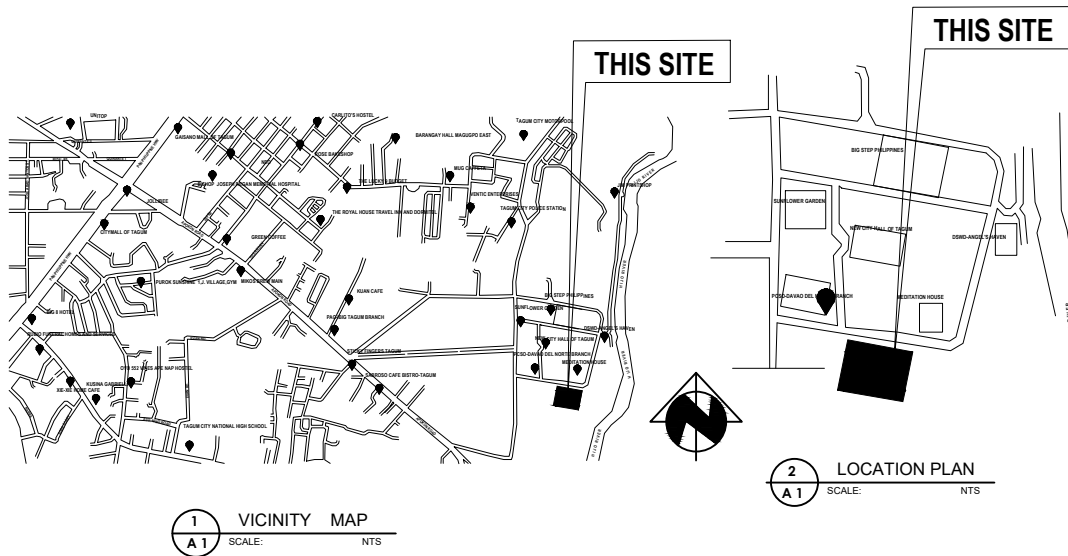
DATE:



PERSPECTIVE
OPTION 2



PERSPECTIVE



1
A1 VICINITY MAP
SCALE: NTS

2
A1 LOCATION PLAN
SCALE: NTS

TABLE OF CONTENTS

ARCHITECTURAL		MECHANICAL		OFFICE OF THE BUILDING OFFICIAL	
A-1	PERSPECTIVE VICINITY MAP LOCATION PLAN TABLE OF CONTENTS	E13	LOAD SCHEDULES (PB-CSWD, PB-PACD 2ND FLOOR, PB-HW 2ND FLOOR, DP2)	TAGUM CITY	
A-2	SITE DEVELOPMENT PLAN	E14	LOAD SCHEDULES (MAIN DISTRIBUTION PANEL, VOLTAGE DROP CALCULATION)	LINE & GRADE	
A-3	GROUND FLOOR PLAN	E15	RISER DIAGRAM WIRE SCHEDULE VICINITY MAP	LAND USE & GRADE	
A-4	SECOND FLOOR PLAN	MECHANICAL		ARCHITECTURAL	
A-5	FRONT ELEVATION LEFT-SIDE ELEVATION RIGHT-SIDE ELEVATION	M-1	GROUND FLOOR SPRINKLER LAYOUT	CIVIL/STRUCTURAL	
A-6	REAR ELEVATION LONGITUDINAL SECTION THRU A-A CROSS SECTION THRU B-B	M-2	SECOND FLOOR SPRINKLER LAY-OUT	ELECTRICAL	
A-7	SCHEDULE OF DOORS & WINDOWS "B"	M-3	GROUND FLOOR SMOKE DETECTOR LAYOUT	MECHANICAL	
A-8	DETAIL PLAN OF RAMP RAMP FLOORING DETAIL PLAN SPOT DETAIL	M-4	SECOND FLOOR SMOKE DETECTOR LAYOUT	SANITARY	
A-9	2ND LAYER ROOF PLAN	M-5	SCHEDULE OF TANKS AND EQUIPMENTS GENERAL NOTES AND SPECIFICATIONS LEGENDS AND SYMBOLS	PLUMBING	
A-10	GROUND FLOOR REFLECTED CEILING PLAN	SANITARY		ELECTRONICS	
A-11	3RD LAYER ROOF PLAN	SAN1	STORM DRAINAGE LAY-OUT PLAN	GEODETIC	
A-12	SECOND FLOOR REFLECTED CEILING PLAN	SAN2	(WASTE WATER LAY-OUT PLAN) GROUND FLOOR	GEO 1	
A-13	SAFETY & HEALTH PLAN	SAN3	(WASTE WATER LAY-OUT PLAN) SECOND FLOOR	GEODETIC ENGINEER	
A-14	AIR VENT DETAIL CEILING PERSPECTIVE CEILING SECTION	SAN4	STORM DRAINAGE LAY-OUT PLAN ISOMETRIC DIAGRAM WASTE WATER LAY-OUT PLAN ISOMETRIC DIAGRAM		
A-15	PROJECT BILLBOARD DETAIL COA BILLBOARD DETAIL	PLUMBING			
A-16					
STRUCTURAL		P1	SEWER LAY-OUT PLAN (GROUND FLOOR)		
S-1	RAMP BEAM LAYOUT PLAN SPOT DETAIL	P2	SEWER LAY-OUT PLAN (SECOND FLOOR)		
S-2	2ND LAYER ROOF FRAMING PLAN	P3	SEWER LAY-OUT PLAN ISOMETRIC DIAGRAM		
S-3	LONGITUDINAL SECTION (SHOWING STEEL I-BEAM TRUSS DETAIL) LONGITUDINAL SECTION A-A (SHOWING STEEL I-BEAM TRUSS DETAIL) STEEL CONNECTION DETAILS	P4	WATERLINE LAY-OUT PLAN (GROUND FLOOR)		
S-4	STAIR SPOT DETAIL Bb PWV ACCESS SYMBOL DETAIL STAIR SPOT DETAIL Aa RAMP DETAILS	P5	WATERLINE LAY-OUT PLAN (SECOND FLOOR)		
S-5	BAY SECTION DETAIL TYPICAL STAIR DETAILS	P6	NEEDLE VAULT DETAIL PUMP HOUSE DETAIL ELEVATION DETAIL OF PUMP HOUSE		
ELECTRICAL		P7	DETAIL PLAN OF PUMP ROOM DETAIL ELEVATION OF PUMP ROOM ISOMETRIC DIAGRAM OF WATER PUMPING ROOM		
E1	GROUND FLOOR LIGHT PLAN	ELECTRONICS		PLUMBING	
E2	SECOND FLOOR LIGHT PLAN	Ec1	GROUND FLOOR AUXILIARY PLAN	ELECTRONICS	
E3	GROUND FLOOR POWER PLAN	Ec2	SECOND FLOOR AUXILIARY PLAN		
E4	SECOND FLOOR POWER PLAN	GEODETIC			
E5	GROUND FLOOR EMERGENCY LIGHT PLAN				
E6	SECOND FLOOR EMERGENCY LIGHT PLAN				
E7	GROUND FLOOR PANEL BOARD LOCATION PLAN				
E8	2ND FLOOR PANEL BOARD LOCATION PLAN				
E9	LOAD SCHEDULES (DBR, PB-CL, PB-DC1, PB-DOH)				
E10	LOAD SCHEDULES (PB-DC2, PB-DSWD, PB-PACD GROUND FLOOR)				
E11	LOAD SCHEDULES (PB-PCSO, PB-HW1, PB-HW2, DP1)				
E12	LOAD SCHEDULES (PB-DTC1, PB-PHO, PB-DTC2)				

SUMMARY OF QUANTITIES

1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
		AS SUBMITTED	
PART B OTHER GENERAL REQUIREMENTS			
B 3(1)	Permits and Clearances	1.00	ls
B 5(1)	Project Billboard Signboard	2.00	ea
B 7(1)	Occupational Safety and Health	1.00	ls
B 9(1)	Mobilization/Demobilization	1.00	ls
B 26(11)	Signages	1.00	ls
PART C EARTHWORK			
C 0(1)	Removal of Structures & Obstruction	1.00	ls
C 3(1)a	Structure Excavation (Common Soil)	31.00	m3
C 4(1)a	Embankment from Roadway/Structure Excavation (Common Soil)	25.00	m3
C 4(2)a	Embankment from Borrow (Common Soil)	13.05	m3
C 4(7)	Gravel Fill	12.00	m3
TOTAL OF PART C			
PART D REINFORCED CONCRETE			
D 0(2)c	Structural Concrete (S as on Fill Class B, 28 days)	207.00	m3
D 0(1)d	Structural Concrete (Suspended Slab, Class A, 28 days 4000PSI)	26.35	m3
D 02(1)a1	Reinforcing Steel (Deformed), Grade 40	2,617.01	kg
D 02(1)a2	Reinforcing Steel (Deformed), Grade 50	350.54	kg
D 03(2)	Formwork and falseworks	266.00	m2

2

PART E	FINISHING AND OTHER CIVIL WORKS	
E.1 Masonry Works		
1046(2)a1	100mm CHB Non-Irregular Bearing (including Reinforcing Steel)	2717.30 m2
Sub-Total E.1		
E.2 Fabricated Materials		
1010(1)	1 James Jambos, 5/8" Head, Tronsons and Mullions	25.00 set
1010(2)b	Wooden Panel Door	15.22 m2
1010(2)a	Fls+ Door	22.75 m2
1011(2)	Fold-Up Doors	1.30 ls
1007(1)a	Aluminum Framed Glass Door (Sliding Type)	20.56 m2
1007(1)b	Aluminum Framed Glass Door (Swing Type)	90.50 m2
1008(1)a	Aluminum Glass Windows (Sliding Type)	149.54 m2
1008(1)c	Aluminum Glass Windows (Awning Type)	6.60 m2
1008(1)d	Aluminum Glass Windows (Fixed Type)	733.86 m2
1012(3)a6	Tempered Glass, 12mm (Wall Partition)	51.05 m2
1014(2)	Finishing Hardware	1.30 ls
1003(17)	Carpentry and Joinery Works (Phenolic Doors and Wall, PVC Ceiling, Cabinet, & LED S	1.30 ls
Sub-Total E.2		
E.3 Finishing Works		
1020(1)	Vinyl Floor Tile	270.00 m2
1027(1)	Cement Plaster Finish	5,584.52 m2
1015(5)	Paintings	1.30 m
1016(3)	Grass Trees	148.00 m2
1003(1)e	Ceiling (Prepainted Metal Panel on Metal Frame)	4,423.30 m2
1003(2)a1	Wall (4.5mm Fiber Cement Board on Metal Frame)	120.39 m2
1020(1)	Aluminum Cladding	3,626.33 m2
1021(1/2)	Floor Finishes (Rubberized Paint)	1.30 m2
1018(5)	Glazed Tiles	153.48 m2
1016(2)	Glazed Tiles	3,512.50 m2
Sub-Total E.3		
E.4 Painting Works		
1032(1)a	Painting Works (Masonry/Concrete)	6,709.30 m2
1032(1)b	Painting Works (Wood)	791.60 m2
1032(1)c	Painting Works (Steel)	10,096.30 m2
Sub-Total E.4		

3

E.5 Roof Framing and Roofing Works			
1014(1)c2	Pre-painted Metal Sheets (above 2.427mm Corrugated Long Span)	143.10	m2
1047(3)	Structural Steel	1.00	ls
1047(7)c	Structural Steel Cladding Frame	95,307.37	kg
1047(8)a	Structural Steel Purlins	1,580.00	kg
1047(2)	Metal Structure Accessories	1.00	ls
Sub-Total E.5			
E.6 Plumbing			
1001(8)	Sewer/Sanitary Line Works	1.00	ls
1002(24)	Cold Water Lines	1.00	ls
1002(4)	Plumbing Fixtures	1.00	ls
Sub-Total E.6			
TOTAL OF PART E			
PART F ELECTRICAL WORKS			
1100(10)	Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)	1.00	ls
1101(33)	Wires and Wiring Devices	1.00	ls
*1021(1)	Panel Board with Main & Branch Breakers	1.00	ls
1102(11)	Pad Mounted Distribution Transformer (10 SC) with Complete Accessories, Single or Three Phase, Pole Type or Platform	1.00	ls
*1031(1)	Lighting Fixtures and Lamps	1.00	ls
*104(1)	Accessory System	1.00	ls
*106(1)	OXIV System	1.00	ls
TOTAL OF PART F			
PART G MECHANICAL WORKS			
1200(2)c	Oscillating Fan (Ceiling Fan)	2.00	set
1200(5)a	Exhaust Fan (Ceiling Cassette)	5.00	set
1200(13)a	Airconditioning	1.00	ls
1202(1)	Automatic Fire Sprinkler System (AFSS)	1.00	ls
*203(2)	Service Elevator	1.00	ls
1208(1)	Fire Alarm System	1.00	ls
*2011(1)	Water Pumping System	1.00	ls
1201(1)a	Water Tank (Starless)	5.00	set
TOTAL OF PART G			
DIVISION IV - FLOOD CONTROL DRAINAGE AND WATER SUPPLY			
PART K WATER SUPPLY			
*504(1)	Water Treatment Plant (WTP), Modular/Stand Type	1.00	ls
TOTAL OF PART K			
PART L FLOOD AND RIVER CONTROL AND DRAINAGE			
*729(1)	Sewage Treatment Plant (STP) - Dynamic Sequential Batch Reactor (SBR) Process	1.00	ls



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION II
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
106-48 NATIONAL HIGHWAY, BREVY, CANGCOOTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION (COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

SUMMARY OF QUANTITIES

DRAFTED:

JANDEE S. MONRADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. GAMBOS, UAP
ARCHITECT II

DATE:

SUBMITTED:

CHIRWEN P. JAZARENO
CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEX S. MABANGLO
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

EDITHA G. MONTILDE
DISTRICT ENGINEER

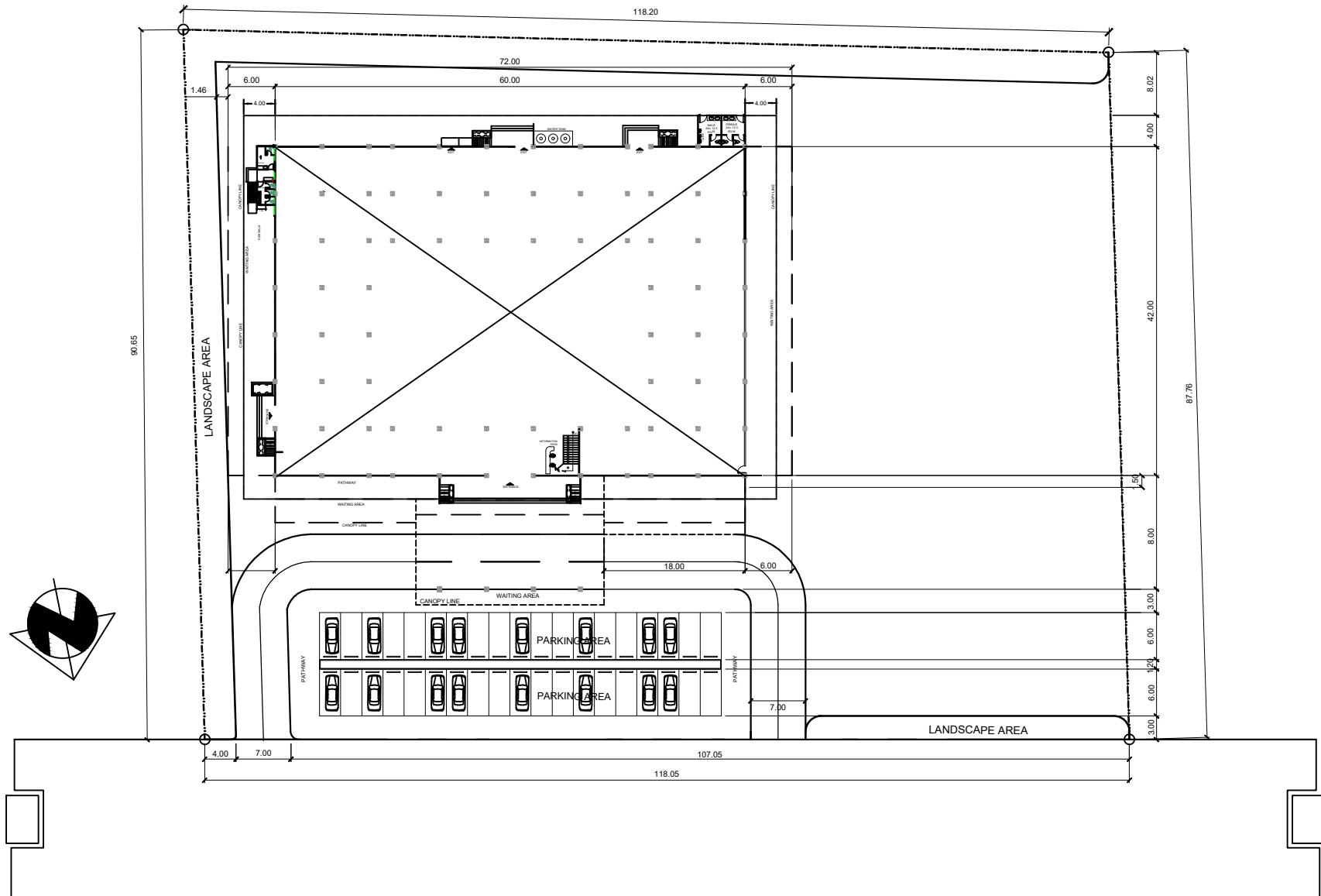
DATE:

SET NO.



SHEET NO.





1 SITE DEVELOPMENT PLAN
A2 SCALE 1:300 mts.

LANDSCAPE AREA
CITY HALL OF TAGUM



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
RML 48 NATIONAL HIGHWAY, BRGY. CANOCOTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION(COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

SITE DEVELOPMENT PLAN

DRAFTED:

JANDEE G. MONTADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. GARCIA
ARCHITECT II

DATE:

SUBMITTED:

CHIRWEN F. NABARENO
ENGINEER II

CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:

LEO ALEX A. MABANGLO
OFFICER IN CHARGE

OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

EDITHA C. MONTILDE
DISTRICT ENGINEER

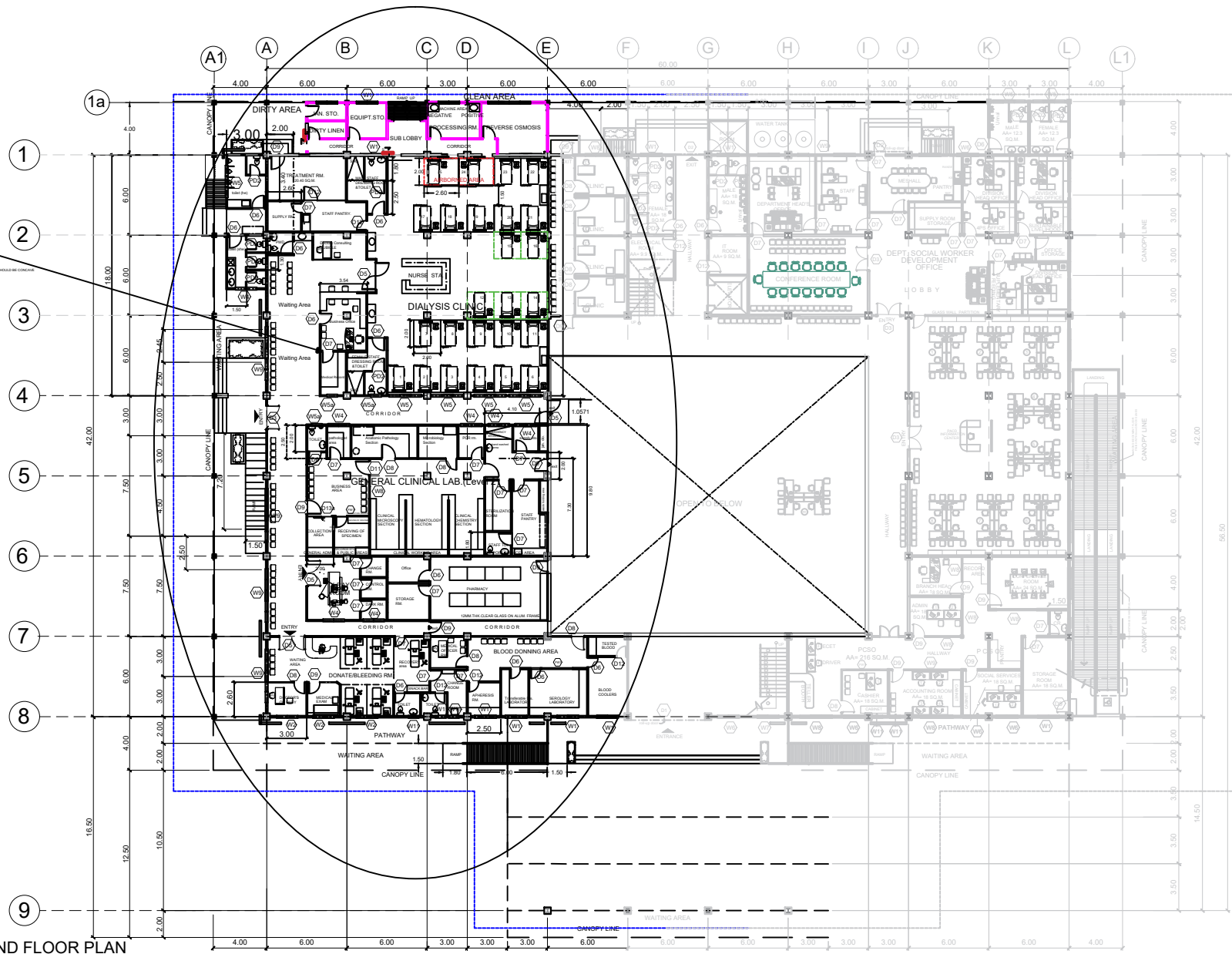
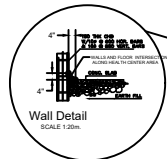
DATE:

SET NO.

1
A2 5

SHEET NO.

2
28



GRAPHICAL SCALE



SCALE 1:175 M.

1 GROUND FLOOR PLAN
SCALE 1:175 M.
(PROPOSED 25 BEDS DIALYSIS)
(PROPOSED 25 BEDS DIALYSIS AT 4.20 SQ.M. per UNIT)



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
KM 48 NATIONAL HIGHWAY, BRGY. CANCOTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION/COMPLETION OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

GROUND FLOOR PLAN

DRAFTED: JANDIE G. MONRADA
ENGINEERING ASSISTANT
PREPARED: ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED: TITO C. GONZALES
ARCHITECT II
DATE:

SUBMITTED: CHIRWEN P. NAZARENO
CHIEF PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED: LEO ALAN M. BASANGLO
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED: EDITHA G. MONTILDE
DISTRICT ENGINEER
DATE:

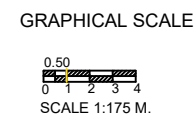
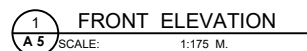
SET NO. SHEET NO.

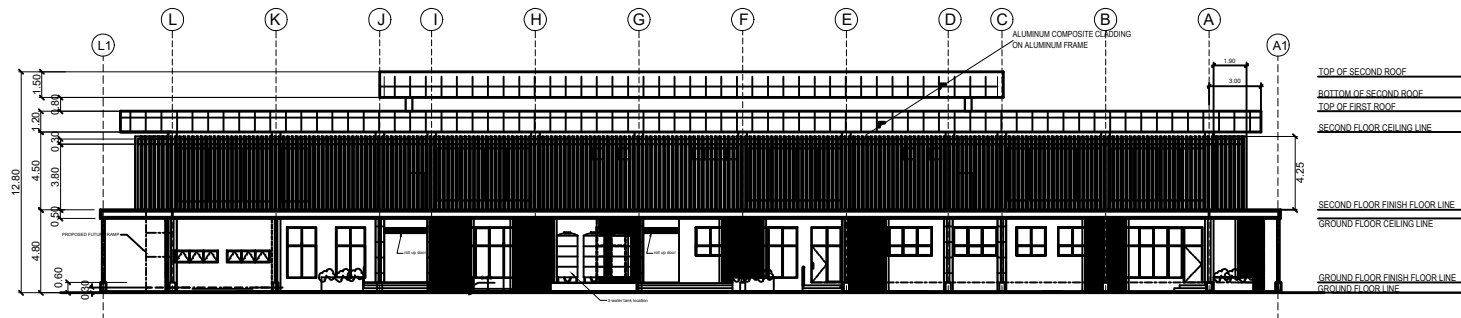
GRAPHICAL SCALE:



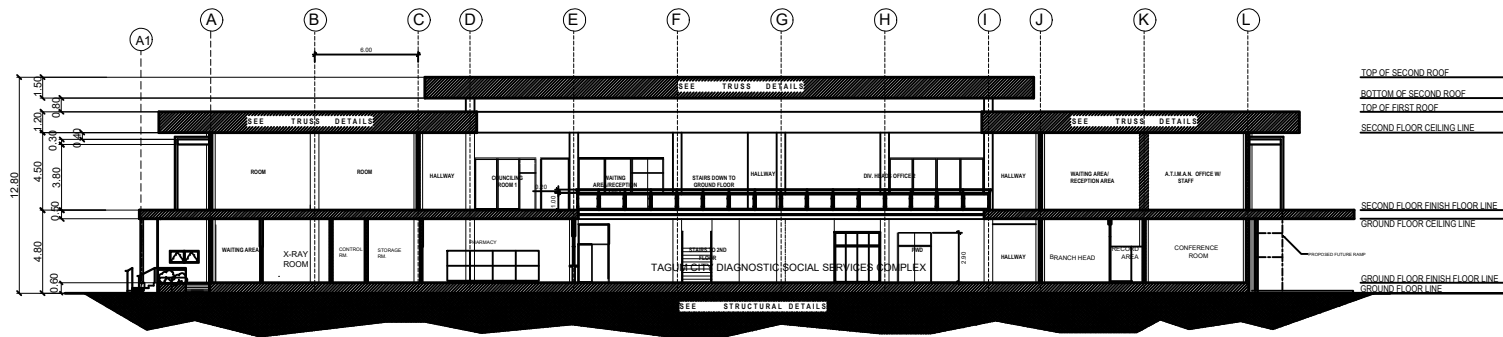
Category	Value
Blue	1
White	1
Green	1
White	1



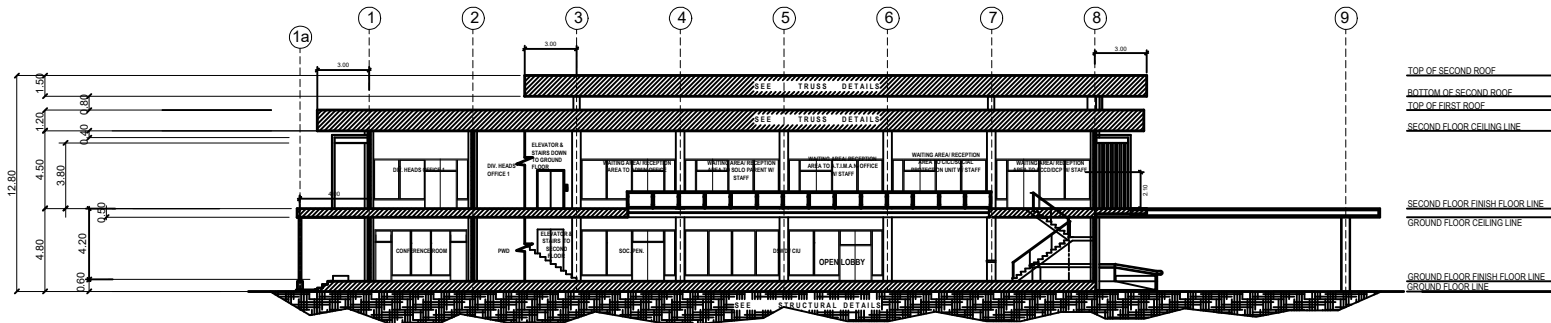




1 REAR ELEVATION
A 6 SCALE 1:175 M.

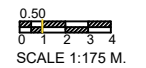


2 LONGITUDINAL SECTION THRU A-A
A 6 SCALE 1:175 M.



3 CROSS SECTION THRU B-B
A 6 SCALE 1:175 M.

GRAPHICAL SCALE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
100-40 NATIONAL HIGHWAY, BRGY. CANGCOOTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION/COMPLETION OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

REAR ELEVATION
LONGITUDINAL SECTION THRU A-A
CROSS SECTION THRU B-B

DRAFTED:

JANDEE S. PORRADA
ENGINEERING ASSISTANT
PREPARED:
ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. SANTOS, UAP
ARCHITECT II
DATE:

SUBMITTED:

CHIRWEN P. NIZARENO
ENGINEER III
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:

LEO ALEX A. MABANGLO
OFFICIAL ENGINEER
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

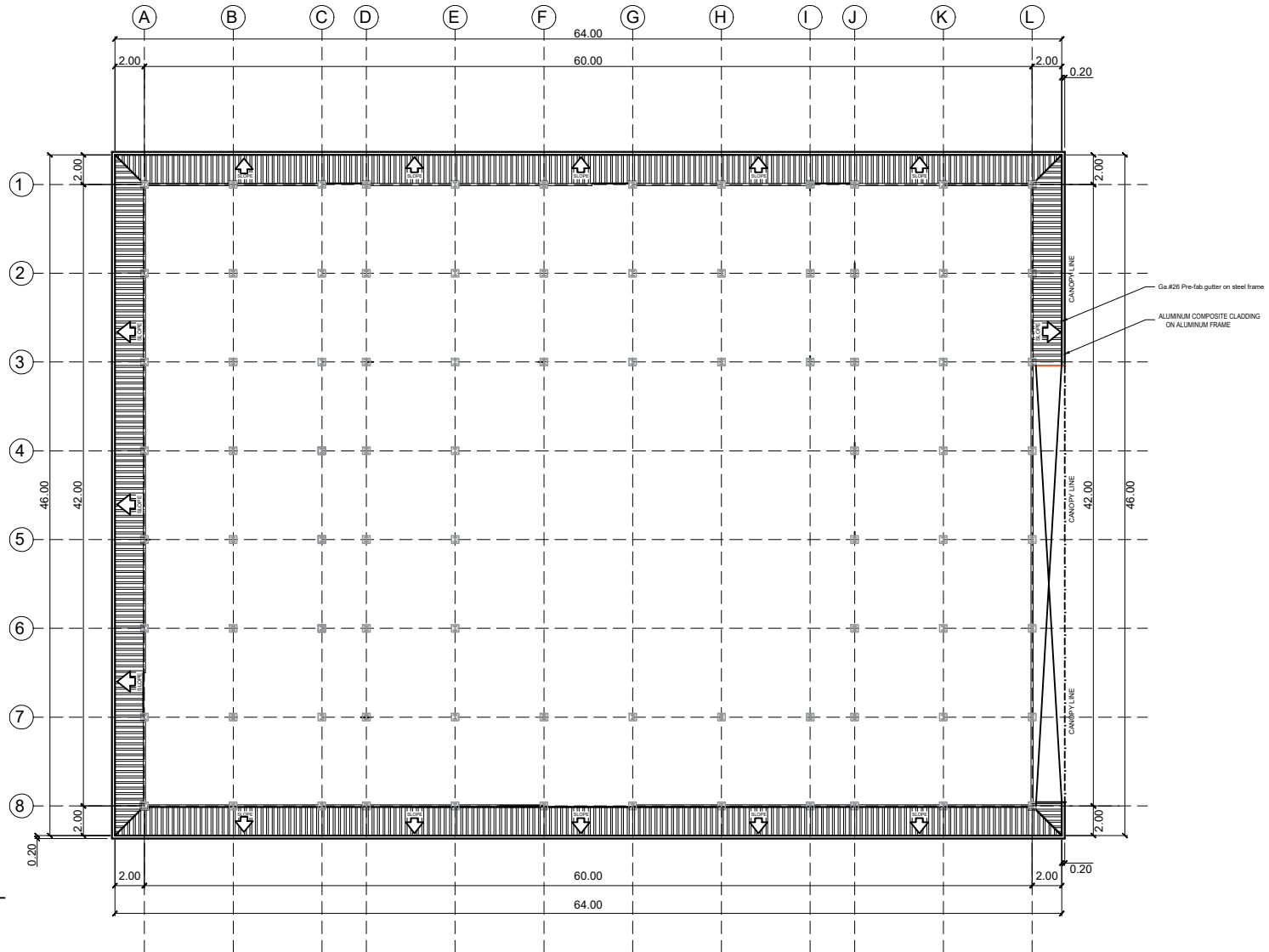
EDITHA E. MONTILDE
DISTRICT ENGINEER
DATE:

SET NO.



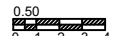
SHEET NO.





1
A 10 2ND LAYER ROOF PLAN
SCALE: 1:175M.

GRAPHICAL SCALE



SCALE 1:175 M.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
15M, 48 NATIONAL HIGHWAY, BPO, CAGUIGUAY, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION (COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

2ND LAYER ROOF PLAN

DRAFTED:

JANDEE G. SORRADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. GARCIA-LAP
ARCHITECT II

DATE:

SUBMITTED:

CHIRWEN P. NAARENO
ENGINEER
CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEX A. TABANGLO
OFFICER IN CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

EDITHA G. MONTILDE
DISTRICT ENGINEER

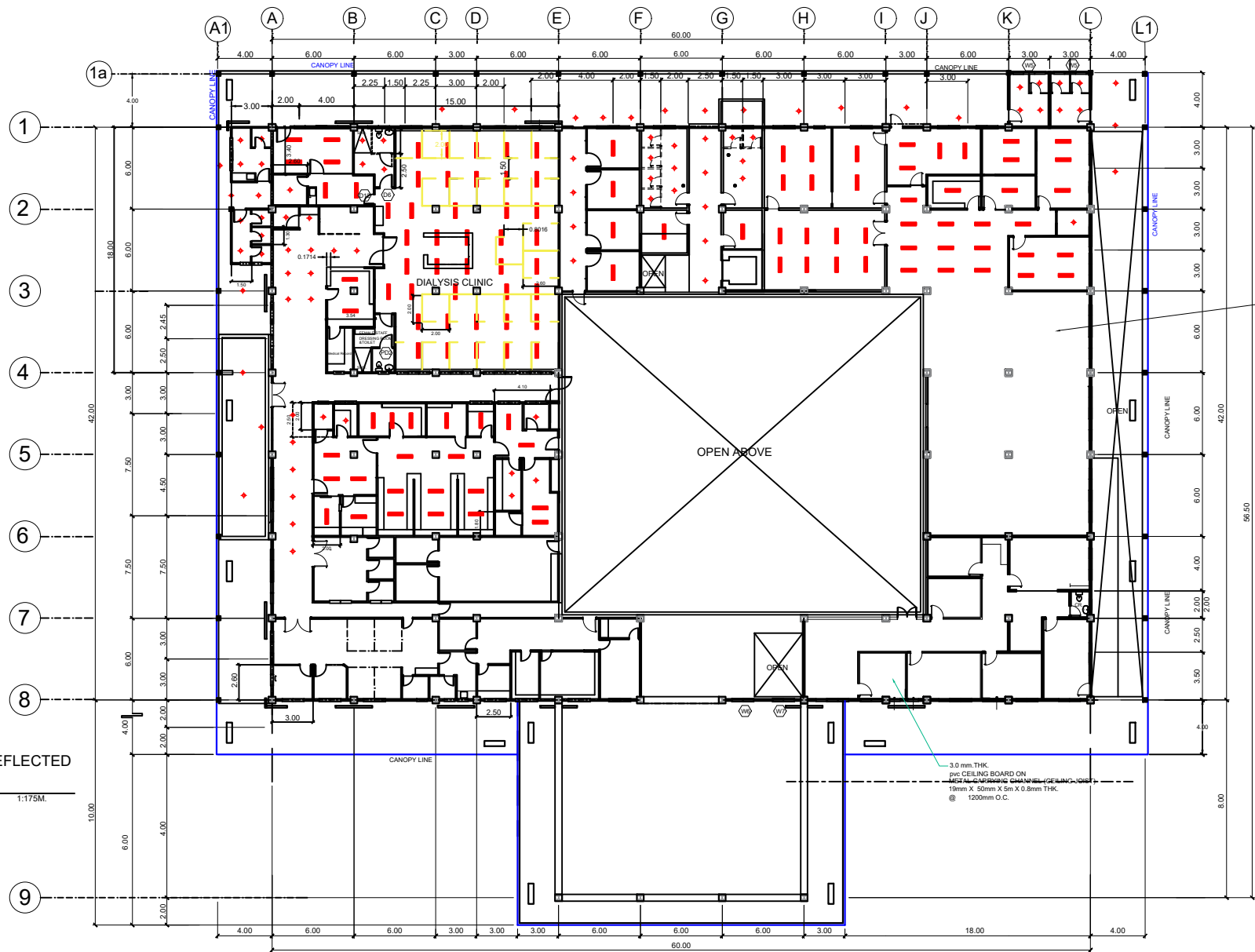
DATE:

SET NO.



SHEET NO.





GROUND FLOOR REFLECTED CEILING PLAN

1
A 11

SCALE 1:175M.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION IX
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
108 48 NATIONAL HIGHWAY, BPO, CAGAYAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION (COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

GROUND FLOOR REFLECTED
CEILING PLAN

DRAFTED:

JANDEE O. DURADA

ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM

ENGINEER II

REVIEWED:

TITO C. GARCIA-JAP

ARCHITECT II

DATE:

SUBMITTED:

CHIRWEN P. NAZARENO

ENGINEER

CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEX S. MABINGLO

OFFICIAL CHARGE

OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

EDITHA S. MONTILDE

DISTRICT ENGINEER

DATE:

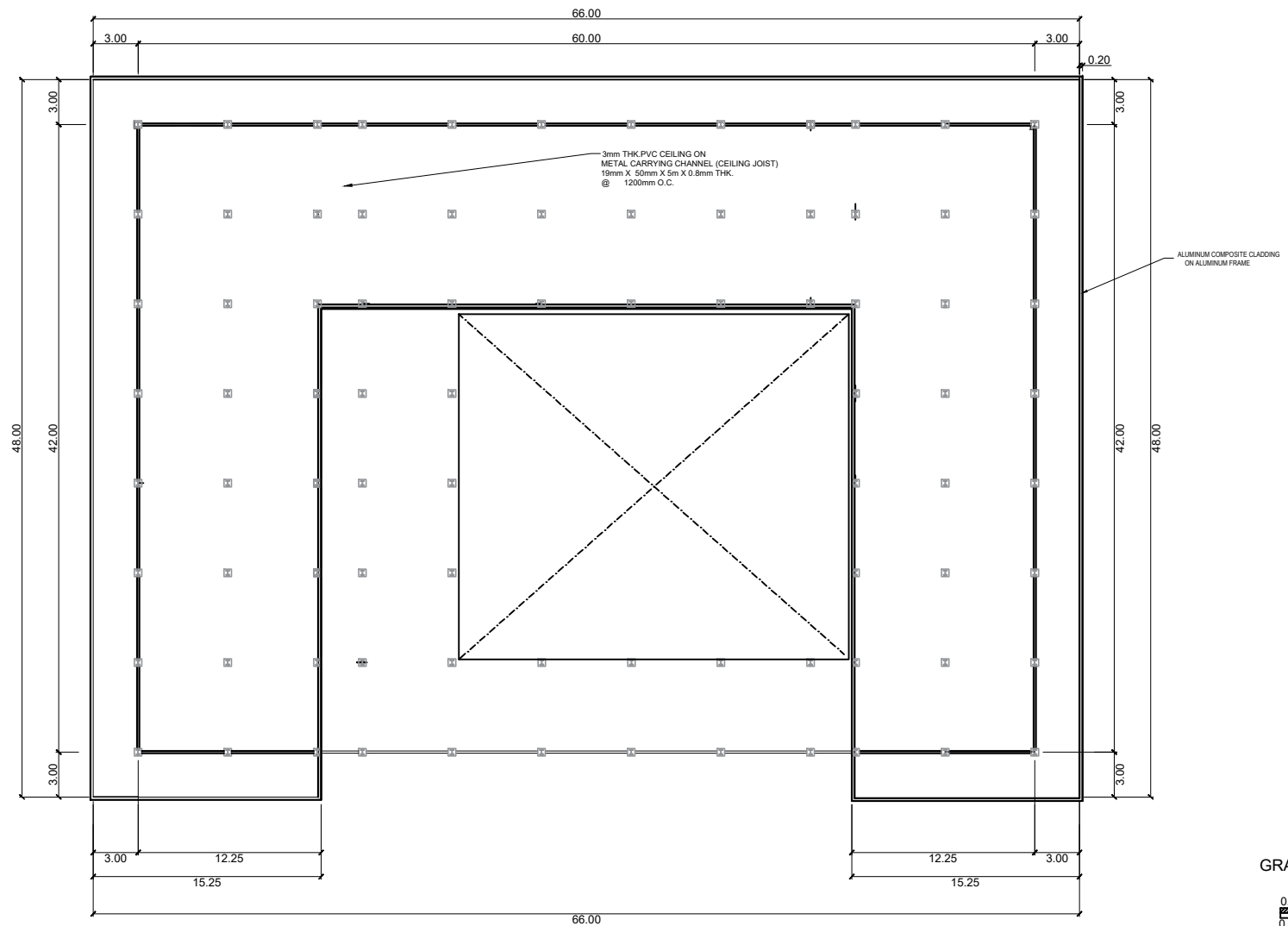
SET NO.

1

SHEET NO.

1

encl-1p-107



1
A 12
3RD LAYER ROOF PLAN
SCALE: 1:175 M.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
KM. 48 NATIONAL HIGHWAY, BROY, CANDOCTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION(COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

3RD LAYER ROOF PLAN

DRAFTED:

JANDEE C. TORRADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. ORTIZ
ARCHITECT II

DATE:

SUBMITTED:

CHIRWEL P. NAZARENO
ENGINEER
CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEXA M. ABANGLO
OFFICIAL ENGINEER
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

EDITHA M. MONTILDE
DISTRICT ENGINEER

DATE:

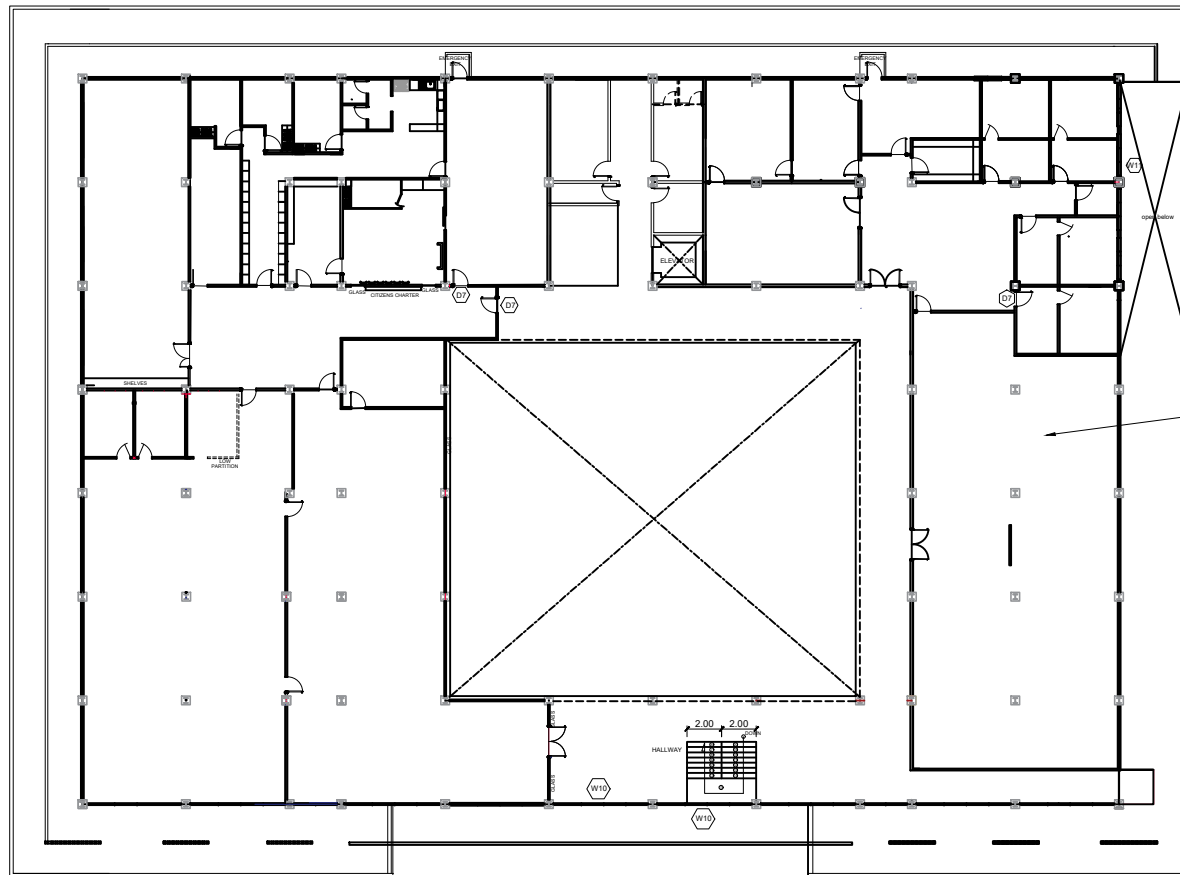
SET NO.



SHEET NO.



enr-12-12

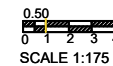


SECOND FLOOR REFLECTED CEILING PLAN

1
A 13

SCALE: 1:175 M.

GRAPHICAL SCALE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION XI
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
101-48 NATIONAL HIGHWAY-BRIDGE CANTONMENT, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION (COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

SECOND FLOOR REFLECTED
CEILING PLAN

DRAFTED:

JANDEE G. SORRADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. GAMOSA, JR.
ARCHITECT II

DATE:

SUBMITTED:

CHIRWEN P. NAARENO
ENGINEER II
CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

LEO ALEX A. LABANGLO
ENGINEER II
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

EDITHA G. MONTILDE
DISTRICT ENGINEER

DATE:

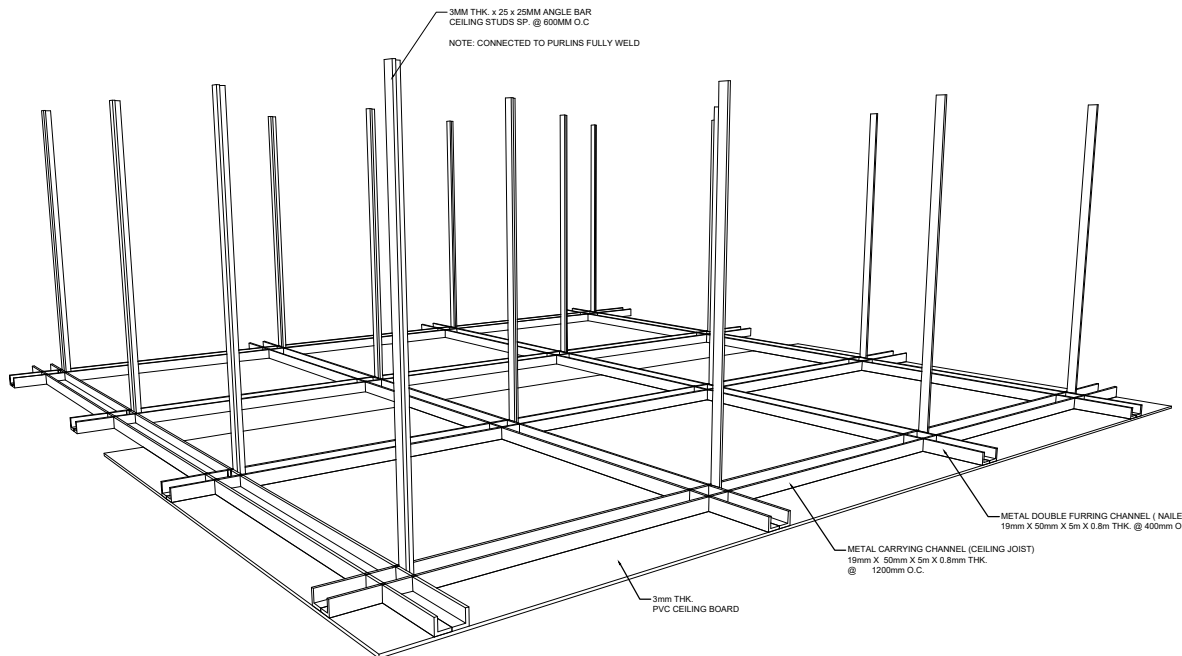
SET NO.



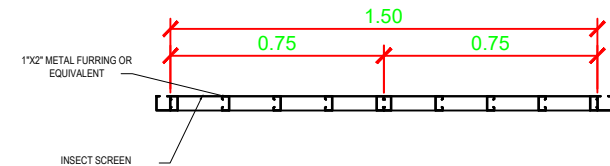
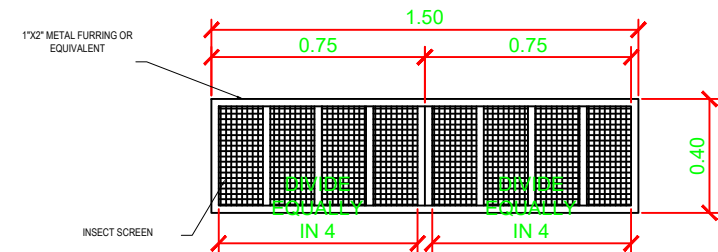
SHEET NO.



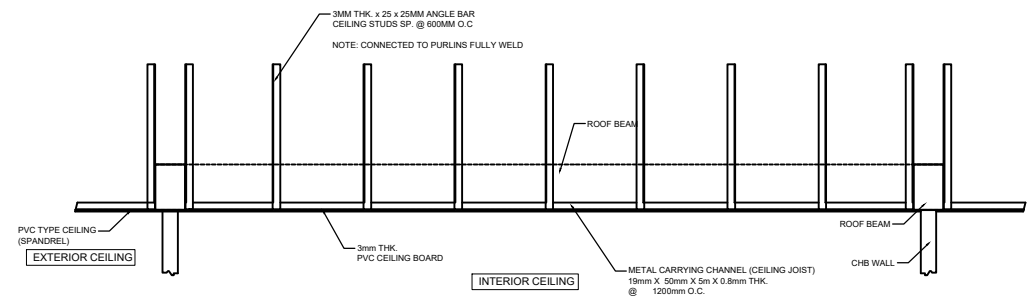
01/10/2022



CEILING PERSPECTIVE
1
A 15
D N T S



AIR VENT DETAIL
3
A 15
D N T S
PRE FAB. PLASTIC AIR VENT



CEILING SECTION
2
A 15
D N T S



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION III
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
KM. 48 NATIONAL HIGHWAY, BRGY. CANGCUTAN, TAGUM CITY

PROJECT NAME AND LOCATION:

CONSTRUCTION(COMPLETION) OF TAGUM CITY
DIAGNOSTIC SOCIAL SERVICES, COMPLEX, CITY
HALL GROUNDS, TAGUM CITY, DAVAO DEL NORTE

SHEET CONTENTS:

CEILING PERSPECTIVE
CEILING SECTION
AIR VENT DETAIL

DRAFTED:

JANDEE O. VIKADA
ENGINEERING ASSISTANT

PREPARED:

ZECHARIAH ANGELO B. SASAM
ENGINEER II

REVIEWED:

TITO C. CANGCUTAN
ARCHITECT II

DATE:

SUBMITTED:

CHIRWENT P. NAZARENO
ENGINEER
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:

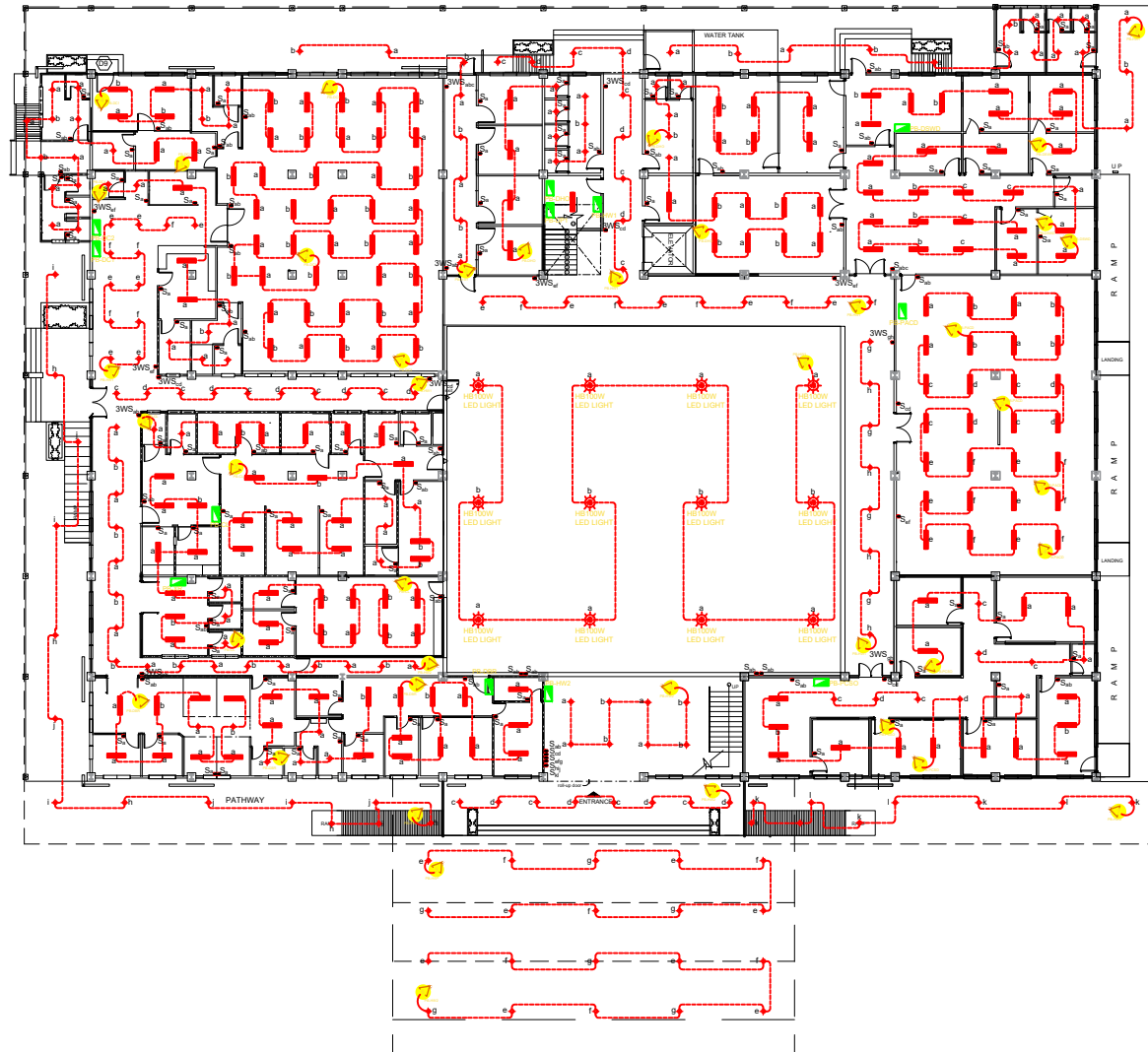
LEO ALBERT M. TABANGLO
ENGINEER
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

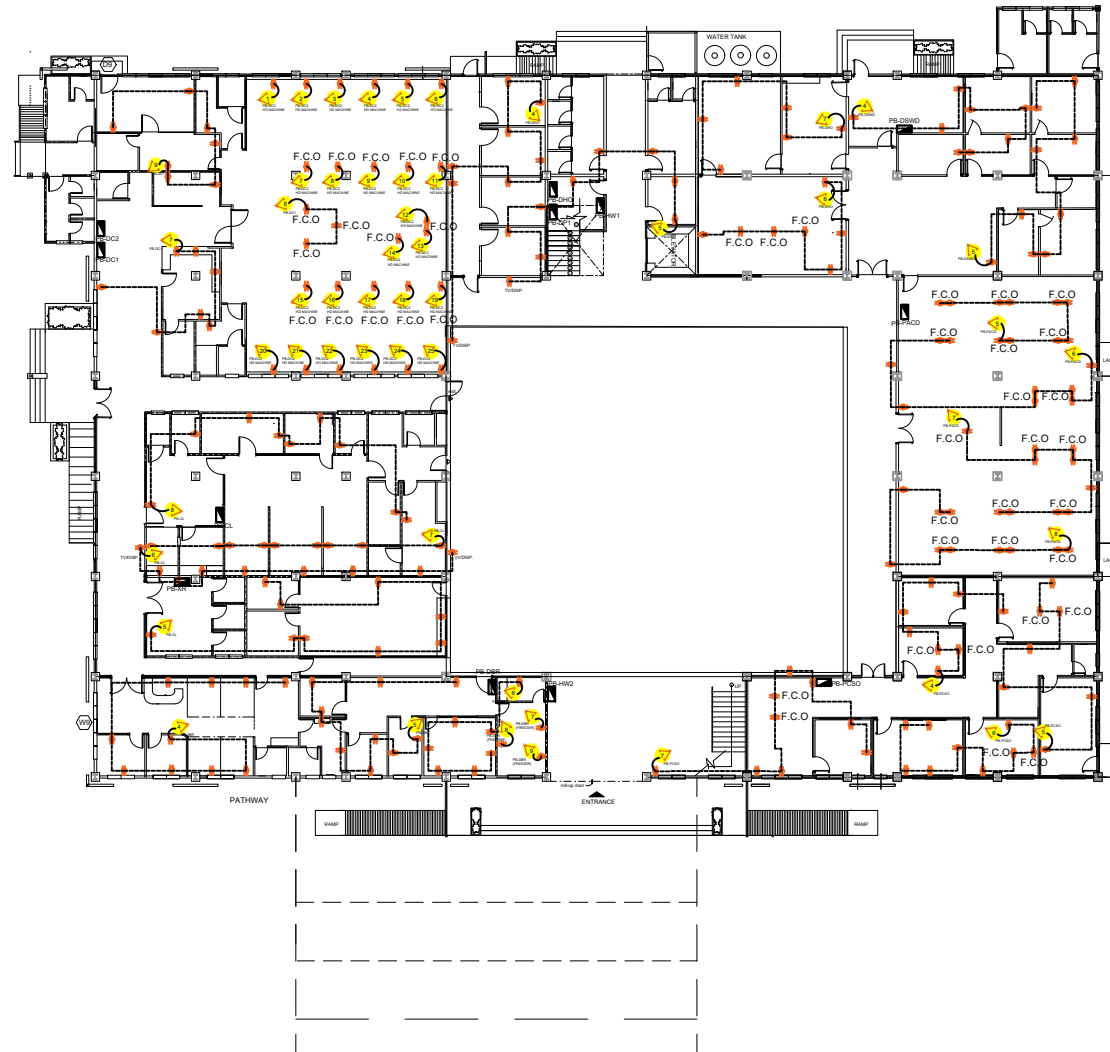
EDITHA S. MONTILDE
DISTRICT ENGINEER
DATE:

SET NO.

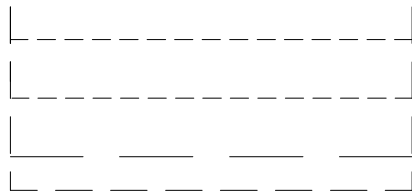
SHEET NO.



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE Km. 48, National highway TAGUM CITY	PROJECT & LOCATION : CONSTRUCTION OF TWO-STY.MPB (CITY HEALTH OFFICE),CITY HALL GROUNDS,TAGUM CITY,DAVAO DEL NORTE (PROPOSED TAGUM CITY DIAGNOSTIC SOCIAL SERVICES COMPLEX)	SHEET CONTENTS: GROUND FLOOR PLAN	DRAFTED BY: <i>Jandee G. Honrada</i> JANDEE G. HONRADA ENGINEERING ASSISTANT DATE: _____	CHECKED BY: <i>Jerry Glenn M. Ramiro</i> JERRY GLENN M. RAMIRO ENGINEER II DATE: _____	SUBMITTED: <i>Chirwen V. Nazareno</i> CHIRWEN V. NAZARENO CHIEF, PLANNING & DESIGN SECTION DATE: _____	RECOMMENDING APPROVAL: <i>Leo A. Mabanglo</i> LEO A. MABANGLO OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER DATE: _____	APPROVED: <i>Editha G. Montilde</i> EDITHA G. MONTILDE DISTRICT ENGINEER DATE: _____	SET NO.	SHEET NO.
---	---	--	---	---	---	---	---	----------------	------------------



 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE Km. 48, National Highway TAGUM CITY	PROJECT & LOCATION: CONSTRUCTION OF TWO-STY.MPB (CITY HEALTH OFFICE),CITY HALL GROUNDS,TAGUM CITY,DAVAO DEL NORTE (PROPOSED TAGUM CITY DIAGNOSTIC SOCIAL SERVICES COMPLEX)	SHEET CONTENTS: GROUND FLOOR PLAN	DRAFTED BY:  JANDEE G. HONRADA ENGINEERING ASSISTANT DATE:	CHECKED BY:  JERRY GLENN M. RAMIRO ENGINEER II DATE:	SUBMITTED:  CHIRWEN V. NAZARENO CHIEF, PLANNING & DESIGN SECTION DATE:	RECOMMENDING APPROVAL:  LEO ALEX A. MABANGLO OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER DATE:	APPROVED:  EDITHA S. MONTILDE DISTRICT ENGINEER DATE:	SET NO.	SHEET NO.
--	---	---	---	---	---	--	--	--------------------	----------------------



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
Km. 48, National Highway TAGUM CITY

PROJECT & LOCATION :
CONSTRUCTION OF TWO-STY.MPB (CITY
HEALTH OFFICE),CITY HALL
GROUNDS,TAGUM CITY,DAVAO DEL NORTE
(PROPOSED TAGUM CITY DIAGNOSTIC
SOCIAL SERVICES COMPLEX)

SHEET CONTENTS:
GROUND FLOOR PLAN

DRAFTED BY:

JANDEE G. HONRADA
ENGINEERING ASSISTANT
DATE:

CHECKED BY:

JERRY GLENN W. RAMIRO
ENGINEER - II
DATE:

SUBMITTED:

CHIRWEN P. NAZARENO
CHIEF, PLANNING & DESIGN SECTION
DATE:

RECOMMENDING APPROVAL:

LEO ALEX A. MABANGLO
OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

EDITHA S. MONTILDE
DISTRICT ENGINEER
DATE:

SET NO. SHEET NO.

SCHEDULE OF LOAD (DBR)														
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTAGE (V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE	
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATING	POLE	KAIC	WIRE SIZE	CONDUIT SIZE
1	LIGHTING OUTLET	10	8	2	230	496	2.15			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
2	LIGHTING OUTLET	9	5	4		376		1.63		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
3	LIGHTING OUTLET	10	10			560			2.43	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
4	CONVENIENCE OUTLET	10				3600	15.65			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
5	CONVENIENCE OUTLET	10				3600		15.65		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
6	CONVENIENCE OUTLET	7				2520			10.95	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
7	FREEZER UNIT	1				1500	6.52			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
8	FREEZER UNIT	1				1500		6.52		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
9	FREEZER UNIT	1				1500			6.52	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
10	EMERGENCY LIGHT	11				110			0.47	15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
11	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
12	A.C.U SPLIT TYPE 2.5HP	1				3450		15		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
13	A.C.U SPLIT TYPE 1HP	1				1840			8	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
14	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
15	A.C.U SPLIT TYPE 3TONNER	1				4140			18	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
16	SPARE	1				1500	6.52			30	2	10		
17	SPARE	1				1500		6.52		30	2	10		
18	BLANK													
						31889	46.84	45.32	46.37					

PROTECTION CALCULATION:

$$I = \sqrt{3 \times 46.84 \times 1.5(18)} = 108.129 \text{ AMP.}$$

USE: 1-110AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3 \times 46.84 \times 1(18)} = 99.129 \text{ AMP.}$$

PROVIDE: 3-30MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 40MMØ UPVC

SCHEDULE OF LOAD (PB-DC1)														
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTAGE (V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE	
			2x28W FL	24W PIN LIGHT			I_{L1}	I_{L2}	I_{L3}	RATING	POLE	KAIC	WIRE SIZE	CONDUIT SIZE
1	LIGHTING OUTLET	12	12		230	672	2.92			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
2	LIGHTING OUTLET	12	12			672		2.92		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
3	LIGHTING OUTLET	12	12			672			2.92	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
4	LIGHTING OUTLET	12	8	4		544	2.36			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
5	LIGHTING OUTLET	15	2	13		424		1.84		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
6	LIGHTING OUTLET	10	3	7		336			1.46	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mm Ø UPVC CONDUIT
7	CONVENIENCE OUTLET	7				2520			10.95	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mm Ø UPVC CONDUIT
8	CONVENIENCE OUTLET	3				1080		4.69		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mm Ø UPVC CONDUIT
9	CONVENIENCE OUTLET	7				2520			10.95	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mm Ø UPVC CONDUIT
10	EMERGENCY LIGHT	7				70	0.30			15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mm Ø UPVC CONDUIT
11	A.C.U SPLIT TYPE 3TONNER	1				4140		18		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
12	A.C.U SPLIT TYPE 1.5HP	1				2300		10		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
13	A.C.U SPLIT TYPE 3TONNER	1				4140			18	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
14	A.C.U SPLIT TYPE 3TONNER	1				4140	18			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
15	A.C.U SPLIT TYPE 3TONNER	1				4140	18			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
16	A.C.U SPLIT TYPE 1.5HP	1				2300		10		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
17	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mm Ø UPVC CONDUIT
18	SPARE	1				1500			6.52	30	2	10		
						34010	47.22	49.81	50.80					

PROTECTION CALCULATION:

$$I = \sqrt{3 \times 50.34 \times 1.5(18)} = 114.12 \text{ AMP.}$$

USE: 1-125AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3 \times 50.34 \times 1(18)} = 105.12 \text{ AMP.}$$

PROVIDE: 3-30MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 40MMØ UPVC

SCHEDULE OF LOAD (PB-CL)														
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTAGE (V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE	
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATING	POLE	KAIC	WIRE SIZE	CONDUIT SIZE
1	LIGHTING OUTLET	11	11		230	616	2.67			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmID uPVC CONDUIT
2	LIGHTING OUTLET	11	8	3		520		2.26		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmID uPVC CONDUIT
3	LIGHTING OUTLET	15	11	4		712			3.09	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmID uPVC CONDUIT
4	LIGHTING OUTLET	9	6	3		408	1.77			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmID uPVC CONDUIT
5	CONVENIENCE OUTLET	9				3240		14.08		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmID uPVC CONDUIT
6	CONVENIENCE OUTLET	9				3240			14.08	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmID uPVC CONDUIT
7	CONVENIENCE OUTLET	9				3240	14.08			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmID uPVC CONDUIT
8	CONVENIENCE OUTLET	9				3240			14.08	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmID uPVC CONDUIT
9	EMERGENCY LIGHT	12				120			0.52	15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmID uPVC CONDUIT
10	A.C.U SPLIT TYPE 2HP	1				2760	12			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
11	A.C.U SPLIT TYPE 1HP	1				1840		8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
12	A.C.U SPLIT TYPE 2HP	1				2760		12		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
13	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
14	A.C.U SPLIT TYPE 1HP	1				1840		8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
15	A.C.U SPLIT TYPE 3TONNER	1				4140			18	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
16	A.C.U SPLIT TYPE 1.5HP	1				2300	10			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
17	A.C.U SPLIT TYPE 1HP	1				1840		8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
18	A.C.U SPLIT TYPE 1.5HP	1				2300		10		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
19	A.C.U SPLIT TYPE 1HP	1				1840			8	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmID uPVC CONDUIT
20	SPARE	1			▽	1500			6.52	30	2	10		
						36156	58.52	58.86	57.77					

PROTECTION CALCULATION:

$$I = \sqrt{3 \times 60.94 \times 1.5(18)} = 132.55 \text{ AMP.}$$

USE: 1-150AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3 \times 60.94 \times 1(18)} = 123.55 \text{ AMP.}$$

PROVIDE: 3-38MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 40MMØ UPVC

SCHEDULE OF LOAD (PB-DHO)														
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTAGE (V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE	
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATING	POLE	KAC	WIRE SIZE	CONDUIT SIZE
1	LIGHTING OUTLET	11	4	7	230	392		1.70		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
2	LIGHTING OUTLET	10	6	4		432		1.87		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
3	LIGHTING OUTLET	10	9	1		528			2.29	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT
4	CONVENIENCE OUTLET	8				2880	12.52			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
5	CONVENIENCE OUTLET	9				3240		14.08		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
6	CONVENIENCE OUTLET	7				2520			10.95	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
7	CONVENIENCE OUTLET	6				2160		9.39		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
8	EMERGENCY LIGHT	13				130	0.56			15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT
9	A.C.U SPLIT TYPE 1HP	1				1840			8.00	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
10	A.C.U SPLIT TYPE 1HP	11				1840		8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
11	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
12	A.C.U SPLIT TYPE 1HP	1				1840		8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
13	A.C.U SPLIT TYPE 3TONNER	1				4140	18			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
14	A.C.U SPLIT TYPE 1.5HP	1				2300		10		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
15	A.C.U SPLIT TYPE 1.5HP	1				2300			10	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT
16	SPARE	1				1500	6.52			30	2	10		
17	SPARE	1				1500			6.52	30	2	10		
18	BLANK													
						31382	45.60	45.04	45.76					

SCHEDULE OF LOAD (PB-DC2)																													
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE																
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATING	POLE	KAIC	WIRE SIZE	CONDUIT SIZE															
1	HEMODIALYSIS MACHINE	1			230	1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
2	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
3	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
4	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
5	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
6	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
7	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
8	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
9	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
10	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
11	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
12	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
13	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
14	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
15	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
16	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
17	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
18	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
19	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
20	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
21	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
22	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
23	HEMODIALYSIS MACHINE	1				1800		7.82		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
24	HEMODIALYSIS MACHINE	1				1800			7.82	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
25	HEMODIALYSIS MACHINE	1				1800	7.82			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
						45000	70.38	62.56	62.56																				
PROTECTION CALCULATION: I = √3 x 70.38+1.5(18) = 133.63 AMP. USE: 1-150AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER															FEEDER CALCULATION: I = √3 x 50.3+1(18) = 129.72 AMP. PROVIDE: 3-38MM ² THWN + 1-5.5MM ² TW COPPER WIRE INSIDE 40MMØ uPVC														

SCHEDULE OF LOAD (PB-DSWD)																													
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE																
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE	CONDUIT SIZE															
1	LIGHTING OUTLET	9	9		230	504	2.19			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
2	LIGHTING OUTLET	9	8	1		472		2.05		15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
3	LIGHTING OUTLET	9	9			504			2.19	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
4	CONVENIENCE OUTLET	8				2880	12.52			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
5	CONVENIENCE OUTLET	9				3240			14.080 0	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
6	EMERGENCY LIGHT	7				90			0.39	15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
7	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
8	A.C.U SPLIT TYPE 1.5HP	1				2300			10	30	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
9	A.C.U SPLIT TYPE 1HP	1				1840	8	8		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
10	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
11	A.C.U SPLIT TYPE 1.5HP	1				2300			10	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
12	A.C.U SPLIT TYPE 1.5HP	1				2300		10		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
13	SPARE	1				1500		6.52		30	2	10																	
14	SPARE	1				1500		6.52		30	2	10																	
									37.23 34.57 36.66																				
PROTECTION CALCULATION: I = √3 x 38.65+1.5(14.08) = 88.06 AMP. USE: 1-100AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER															FEEDER CALCULATION: I = √3 x 38.65+1(18) = 81.02 AMP. PROVIDE: 3-22MM ² THWN + 1-5.5MM ² TW COPPER WIRE INSIDE 40MMØ uPVC														
SCHEDULE OF LOAD (PB-PACD GROUND FLOOR)																													
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE																
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE	CONDUIT SIZE															
1	LIGHTING OUTLET	7	7		230	392	1.70			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
2	LIGHTING OUTLET	7	7			392			1.70	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
3	LIGHTING OUTLET	7	7			392			1.70	15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
4	LIGHTING OUTLET	7	7			392	1.70			15	2	10	2-3.5mm ² THHN COPPER WIRE	20mmØ uPVC CONDUIT															
5	CONVENIENCE OUTLET	10				3600		15.65		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
6	CONVENIENCE OUTLET	9				3240			15.65	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
7	CONVENIENCE OUTLET	10				3600	15.65			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
8	CONVENIENCE OUTLET	10				3600		15.65		20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
9	EMERGENCY LIGHT	4				40			0.17	15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE	20mmØ uPVC CONDUIT															
10	A.C.U SPLIT TYPE 3TONNER	1				4140	18			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
11	A.C.U SPLIT TYPE 3TONNER	1				4140		18		30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
12	A.C.U SPLIT TYPE 3TONNER	1				4140			18	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE	25mmØ uPVC CONDUIT															
13	SPARE	1				1500			6.52	30	2	10																	
14	SPARE	1				1500		6.52		30	2	10																	
									43.57 49.30 43.74																				
PROTECTION CALCULATION: I = √3 x 49.3+1.5(18) = 112.39 AMP. USE: 1-125AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER															FEEDER CALCULATION: I = √3 x 38.65+1(18) = 103.39 AMP. PROVIDE: 3-30MM ² THWN + 1-5.5MM ² TW COPPER WIRE INSIDE 40MMØ uPVC														

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE Km. 48, National Highway TAGUM CITY	PROJECT & LOCATION :	SHEET CONTENTS:	DRAFTED BY:	CHECKED BY:	SUBMITTED:	RECOMMENDING APPROVAL:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF TWO-STY.MPB (CITY HEALTH OFFICE),CITY HALL GROUNDS,TAGUM CITY,DAVAO DEL NORTE	GROUND FLOOR PLAN	JANDEE G. HONRADA	JERRY GLENN M. RAMIRO	CHIRWEN P. NAZARENO	LEO ALEX A. MABANGLO	EDITHA G. MONTILDE		
	(PROPOSED TAGUM CITY DIAGNOSTIC SOCIAL SERVICES COMPLEX)		ENGINEERING ASSISTANT DATE:	ENGINEER II DATE:	CHIEF, PLANNING & DESIGN SECTION DATE:	OFFICER-IN-CHARGE OFFICE OF THE ASSISTANT DISTRICT ENGINEER DATE:	DISTRICT ENGINEER DATE:		

SCHEDULE OF LOAD (PB-PCSO)																
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE			
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE		CONDUIT SIZE	
1	LIGHTING OUTLET	8	4	4	230	320	1.39			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
2	LIGHTING OUTLET	8	6	2		384	1.66			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
3	LIGHTING OUTLET	8	5	3		352			1.53	15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
4	CONVENIENCE OUTLET	8				2880	12.52			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE		20mmØ uPVC CONDUIT	
5	CONVENIENCE OUTLET	7				2520	10.95			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE		20mmØ uPVC CONDUIT	
6	CONVENIENCE OUTLET	9				3240			14.08	20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE		20mmØ uPVC CONDUIT	
7	CONVENIENCE OUTLET	9				3240	14.08			20	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE		20mmØ uPVC CONDUIT	
8	EMERGENCY LIGHT	9				90	0.39			15	2	10	2-3.5mm ² THHN + 1-2.0mm ² TW COPPER WIRE		20mmØ uPVC CONDUIT	
9	A.C.U SPLIT TYPE 2.5HP	1				3450			15.00	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
10	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
11	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
12	A.C.U SPLIT TYPE 1HP	1				1840			8	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
13	A.C.U SPLIT TYPE 1.5HP	1				2300			10	30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
14	A.C.U SPLIT TYPE 1HP	1				1840	8			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
15	A.C.U SPLIT TYPE 3TONNER	1				4140	18			30	2	10	2-5.5mm ² THHN + 1-3.5mm ² TW COPPER WIRE		25mmØ uPVC CONDUIT	
16	SPARE	1				1500	6.52			30	2	10				
17	SPARE	1				1500	6.52			30	2	10				
18	BLANK															
						33276	49.03	47.00	48.61							

PROTECTION CALCULATION:

$$I = \sqrt{3} \times 49.03 + 1.5(18) = 111.92 \text{ AMP.}$$

USE: 1-125AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3} \times 38.65 + 1(18) = 102.92 \text{ AMP.}$$

PROVIDE: 3-30MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 40MMØ uPVC

SCHEDULE OF LOAD (PB-HW2)

CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE			
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE		CONDUIT SIZE	
1	LIGHTING OUTLET	17		17	230	408	1.77			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
2	LIGHTING OUTLET	14		14		336	1.46			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
3	LIGHTING OUTLET	8		8		192			0.83	15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
4	LIGHTING OUTLET	8		8		192	0.83			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
5	LIGHTING OUTLET	10		10		240	1.04			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
6	LIGHTING OUTLET	10		16		240	1.04			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
7	LIGHTING OUTLET	9		9		216	0.93			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
8	EMERGENCY LIGHT	5				50	0.21			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
9	SPARE	1				1500			6.52	30	2	10				
10	SPARE	1				1500	6.52			30	2	10				
						4682	6.24	7.56	7.35							

PROTECTION CALCULATION:

$$I = \sqrt{3} \times 8.28 + 1.5(6.52) = 24.12 \text{ AMP.}$$

USE: 1-40AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3} \times 8.28 + 1(6.52) = 20.86 \text{ AMP.}$$

PROVIDE: 3-8.0MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 32MMØ uPVC

SCHEDULE OF LOAD (PB-HW1)																
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE			
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE		CONDUIT SIZE	
1	LIGHTING OUTLET	12		12		230	288	1.25		15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
2	LIGHTING OUTLET	10		10		240	1.04			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
3	LIGHTING OUTLET	8		8		192			0.83	15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
4	LIGHTING OUTLET	9		9		216	0.94			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
5	LIGHTING OUTLET	10		10		240	1.04			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
6	LIGHTING OUTLET	16		16		384	1.66			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
7	LIGHTING OUTLET	8		8		192	0.83			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
8	EMERGENCY LIGHT	6				60	0.26			15	2	10	2-3.5mm ² THHN COPPER WIRE		20mmØ uPVC CONDUIT	
9	LIGHTING OUTLET	12		12		1200			5.21	30	2	10				
10	SPARE	1				1500			6.52	30	2	10				
						4809	6.19	6.04	7.35							

PROTECTION CALCULATION:

$$I = \sqrt{3} \times 8.29 + 1.5(6.52) = 24.13 \text{ AMP.}$$

USE: 1-40AT, 3PHASE, 230V, 60Hz 10KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

$$I = \sqrt{3} \times 8.29 + 1(6.52) = 20.87 \text{ AMP.}$$

PROVIDE: 3-8.0MM² THWN + 1-5.5MM² TW COPPER WIRE INSIDE 32MMØ uPVC

SCHEDULE OF LOAD (DP1)																
CKT #	LOAD DESCRIPTION	QTY.	TYPE OF LIGHTING LOAD		VOLTA GE(V)	POWER (VA)	CURRENT			PROTECTION (CIRCUIT BREAKER)			CONDUCTOR AND CONDUIT SIZE			
			2x28W FL	24W PIN LIGHT			L ₁₂	L ₂₃	L ₃₁	RATIN G	POLE	KAIC	WIRE SIZE		CONDUIT SIZE	
1	PB-DBR	1			230	31869	46.84	45.32	46.37	110	3	10	3-30mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
2	PB-CL	1				36156	58.52	58.86	57.77	150	3	10	3-38mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
3	PB-DC1	1				34010	47.22	49.81	50.80	125	3	10	3-30mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
4	PB-DC2	1				45000	70.38	62.56	62.56	150	3	10	3-38mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
5	PB-DHO	1				31382	45.60	45.04	45.76	125	3	10	3-30mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
6	PB-DSWD	1				23110	37.23	34.57	36.66	100	3	10	3-22mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
7	PB-PACD(GROUND FLOOR)	1				31068	43.57	49.30	43.74	125	3	10	3-30mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
8	PB-PCSO	1				33276	49.03	47.00	48.61	125	3	10	3-30mm ² THWN +1-5.5mm ² TW COPPER WIRE		40mmØ uPVC CONDUIT	
9	PB-HW1	1				4809	6.19	6.04	7.35	40	3	10	3-8.0mm ² THWN +1-5.5mm ² TW COPPER WIRE		32mmØ uPVC CONDUIT	
10	PB-HW2	1				4682	6.24	7.56	7.35	40	3	10	3-8.0mm ² THWN +1-5.5mm ² TW COPPER WIRE		32mmØ uPVC CONDUIT	
						275262	410.8	406.0	406.97							

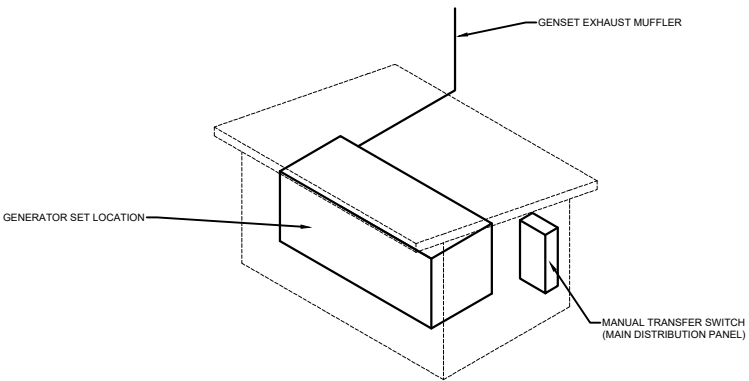
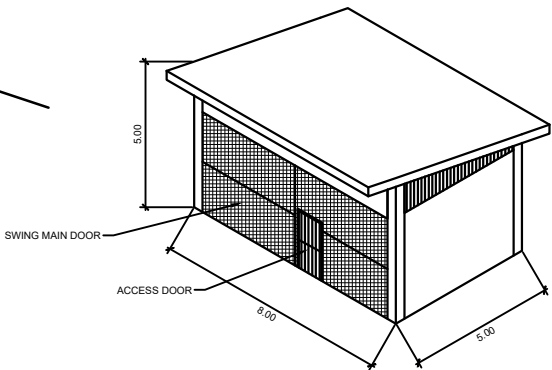
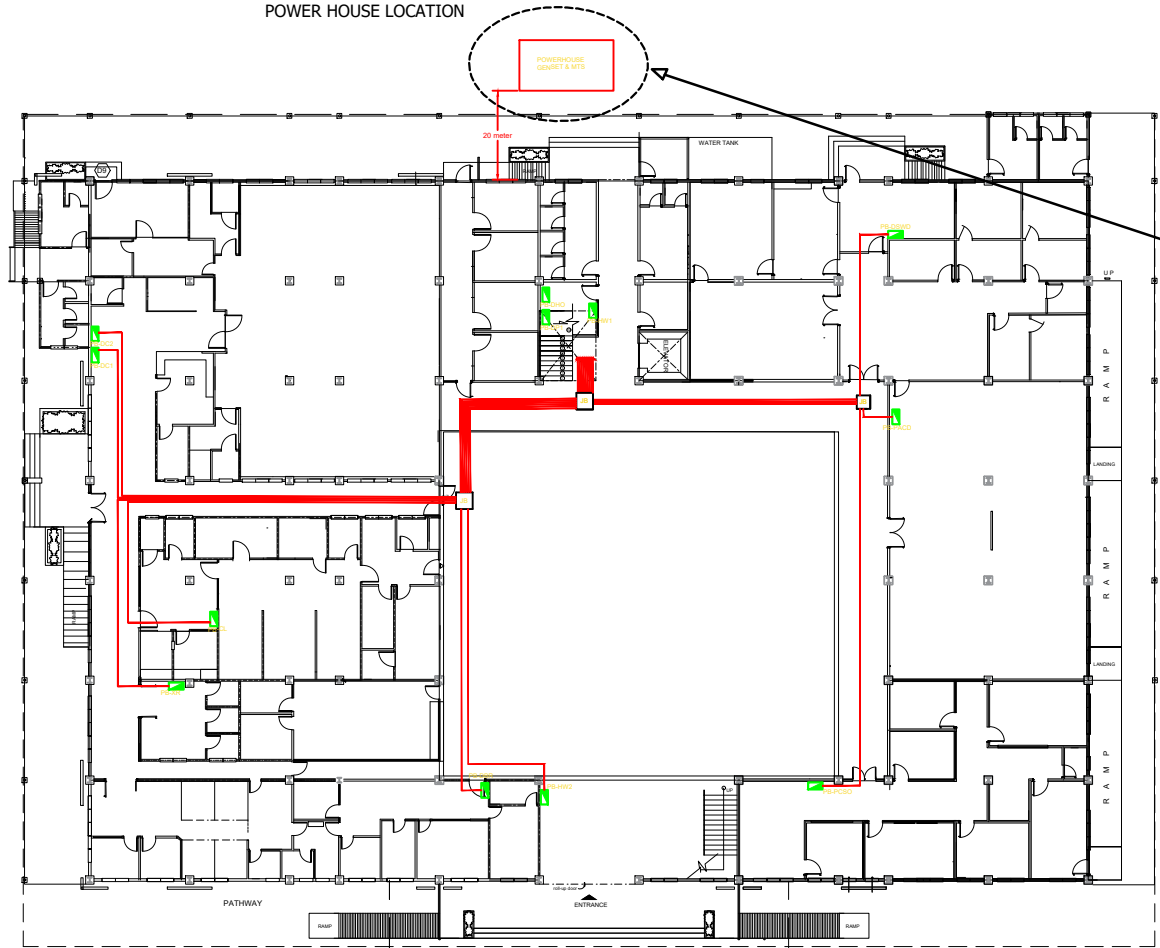
PROTECTION CALCULATION:

$$I = \sqrt{3} \times 410.82 + 70.38 = 781.94 \text{ AMP.}$$

USE: 1-800AT, 3PHASE, 230V, 60Hz 23KAIC MAIN CIRCUIT BREAKER

FEEDER CALCULATION:

POWER HOUSE LOCATION



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
DAVAO DEL NORTE DISTRICT ENGINEERING OFFICE
Km. 48, National Highway TAGUM CITY

PROJECT & LOCATION:

SHEET CONTENTS:

DRAFTED BY:

CHECKED BY:

SUBMITTED:

RECOMMENDING APPROVAL:

APPROVED:

SET NO.

SHEET NO.

JANDEE G. HONRADA

ENGINEERING ASSISTANT

DATE:

CHIRWEN P. NAZARENO

CHIEF, PLANNING & DESIGN SECTION

DATE:

LEO ALEX A. MABANGLO

OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER

DATE:

EDITHA G. MONTILDE

DISTRICT ENGINEER

DATE: