

CY: 2025 PROJECT DETAILED ENGINEERING DESIGN PLAN FOR

CONSTRUCTION OF 3-UNITS 701BDE ENLISTED PERSONNEL BARRACKS, 701st INFANTRY BRIGADE, SITIO MAGAY, BARANGAY DON MARTIN MARUNDAN, MATI CITY, DAVAO ORIENTAL

LOCATION

: MATI CITY, DAVAO ORIENTAL

SUBMITTED

JUDY ANN T. BERNARDINO

CHIEF, PLANNING AND DESIGN DIVISION

RECOMMENDED:

JOSELITO B. CABALLERO

ASSISTANT REGIONAL DIRECTOR

APPROVED:

JUBY B. CORDON

REGIONAL DIRECTOR

SUMMARY OF QUANTITIES

Unit Of Measure

Unit Of Measure

Unit Of Heasure

Lung Sun

Unit Of Measure TOTAL QTY Square Meter 67.17
Square Meter 2.7

Square Neter 101.28

Unit Of Measure TOTAL GTY Square Neber 1118.45 Unit Of Measure TOTAL CITY Set B Unit Of Measure TOTAL QTY Squire Peter 1301.9 Squire Peter 170.91

Unit Of Measure TOTAL CITY Squire Neter / 30 Unit Of Measure TOTAL QTY Square Meter 3982.14 / Unit Of Measure TOTAL QTY Square Pietes 238234 Unit Of Measure TOTAL QTY Square Pieter / 1068 / Unit Of Measure TOTAL OTY Square Pletter 450 Unit Of Measure TOTAL QTY Square Helier 63.21

Square Heter 63.66

Square Natur 1109.76 Square Natur 853.25

Bad 1200 | 1390 | 1399.4 | 1399.4 | 1399.6 | 17119.713 | 1399.6 | 17119.713 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6 | 1399.6

Unit Of Heasure TOTAL CITY tump Sum 1

Unit Of Measure

Unit Of Measure

TOTAL QTY

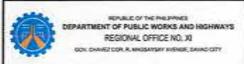
TOTAL QTY

TOTAL QTY 1 -

TOTAL GITY

Pay Item	Suffix	PART A - FACILITIES FOR THE ENGINEER	1	1		1	ITEM 1004 - HARDWARE
(Number)	(Subscript)	Description	Unit Of Heasure	TOTAL QTY	Pay Rem (Number)	Suffix (Subscript)	Description
ALIG)	4	Construction of Field Office for the Engineer	Lump Som	E T	1004 (2)		Frishing Hardware
					20200	T	STEH 1008 - ALUMBIUM GLASS WINDOW
		PART B - OTHER GENERAL REQUIREMENTS		- 11	(Number)	(Subscript)	Description
Pay Dem	Suffix	The second secon		TOTAL QTY	1006 (1)		Aluminum Glass Windows
(Number)	(Subscript)	Description	Unit Of Measure	IOIA GIT	1006 (1)		Aurinum Glass Windows
8.3 (1) 8.5 (1)		Pents and Cearances	Each Sum	1 1		1	ITEM 1010 - WOODEN DOORS AND WINDON
8.7 (I)	1	Project Billioerd / Signitizerd Occupational Sefety and Health	Lump Sum	2 4	(Number)	Suffix (Subscript)	Description
8.9 (1)	4	Poblishon/Deroblishon	tump Sum	1 4	U.S. Control		
				- 11	1010 (1)	1	Figure 1
		DOVISION I - GENERAL		- 11	1010 (2)		ITEM 1013 - CORRUGATED ROOFING
		PART C - EARTHWORK		- 11	Pay Item	Suffix	
	1	TITEM 800 - CLEARING AND GRUSSING		ī	(Number)	(Subscript)	Description
Pay Item (Number)	Suffix (Subscript)	Description	Unit Of Measure	TOTAL QTY	1013 (2)		Fabritated Metal Roofing Accessory
800-(1)-		Chering and Grutting	Square Reter	608.31	1013 (2)		Fabricated Retail Roofing Accessory TTEM 1014 - PRIE-PAINTED METAL SHEET
		ITEM 801 - REMOVAL OF STRUCTURES AND OBSTRUCTION	16	. 1	Pay Item	Suffor	Taker baker
Pay Item	Suffix	Description	Unit Of Measure	TOTAL OTY	(Number)	(Subscript)	Description
(Number) 801 (1)	(Subscript)	Removal of Structures and Obstruction	Lump Sum	1	3034 (30	100	Pre-painted Metal Sheets
500,00		ITEM 803 - STRUCTURE EXCAVATION			Pay Item	Suffix	ITEM 1017 - ROOF DRAIN WITH STRAINE
Pay Item	Suffix	Description	Unit Of Measure	TOTAL GTY	(Number)	(Subscript)	Description
(Number)	(Subscript)		DESCRIPTION OF		1017 (3)		Gutter Drain with Strainer
863 (1)	1 ,	Structure Expression ITEM 804 - EMBANGMENT	Cubic Meter	238.86		1	TIEM 1018 - CERAMIC AND GRANTIE TILE
Pay Rem	Suffix	T			(Number)	(Subscript)	Description
(Number)	(Subscript)	Description	Unit Of Measure	TOTAL QTY	1008 (1)	1	Gazed Tiles and Trims
804 (2)	1 /	Entailment from Somon	Cubic Heter /	450	1018 (2)		Unglaced Tiles
804(7)		Gravel FIL	Cubic Netter	* *		1	TITEM 1021 - CEMENT FLOOR FINISH
		A STATE OF THE STA		- 11	(Number)	(Subscript)	Description
		PART D - REDIFORCED CONCRETE		- 11	5021 (1)	b .	Certest Poor Frish
-	Suffix	ITEM 900 - STRUCTURAL CONCRETE		i — II			ITEM 1027 - CEMENT PLASTER FINISH
Pay Zem (Number)	(Subscript)	Description	Unit Of Measure	TOTAL QTY	(Number)	(Subscript)	Description
900 (1)	b	Structural Concrete	Cubic Heter	174.78	1027 (1)	(annexy)	Certaint Planter Fields
900 (1)	1 1	Snutural Controls	Cubic Meter	48.33			EM 1032 - PAINTING, VARNESHING AND OTHER REL
Pay Rem	Seffix	ITEM 902 - REINFORCING STEEL	1		(Number)	Suffix (Subscript)	Description
(Number)	(Subscript)	Description	Unit Of Heasure	TOTAL QTY	1035(1)	(puship)	Painting Works
962 (1)	21	(Reinforcing Steel (Deformed)	Obgran	29,806.77			ITEM 1038 - REFLECTIVE DISULATION
-	Suffix	ITEM 903 - FORMWORKS AND FILLSEWORKS			Pay Rom	Suffix	Description
(Number)	(Subscript)	Description	Unit Of Heasure	TOTALOTY	(Number) 1038 (1)	(Subscript)	Reflective Insulation
903 (2)		Formions and Falseworks	Square Heter	1893.18	120000		TIEM 1039 - ALUMINUM CLADOING
				1.1	Pay Dem	Suffix	
				- 11			Description
		DIVISION II - BUILDINGS			(Number)	(Subscript)	Description
		PART E - FINESHING AND OTHER CIVIL WORKS				(Subscript)	Fluritum Childhy
Native San					(Number)	(Subscript)	Floreum Chickey ITEM 1043 - PVC DOORS AND FRAMES
Pay Rem Observe	Suffix (Subscript)	PART E - FINESHING AND OTHER CIVIL WORKS	Unit Of Heasure	TOTAL GIY	(Number) 1039 (1) Pay Item (Number)	1	Aument Catching ITEM 1043 - PVC DOORS AND FRAMES Description
Pay Item (Number) 1000 (1)	Suffic (Subscript)	PART E – FINISHING AND OTHER CIVIL WORKS ITEM 1000 – TERMITE CONTROL WORK	Unit Of Heasure	TOTAL GIY	(Number) 1039 (1) Pay Ibem	Suffix	Attribut Catching ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Figures
(Number)	Suffix (Subscript)	PART E - FORSHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description	the		(Number) 1099 (1) Pay Bern (Number) 1043 (1)	Suffix (Subscript)	Attribute Children ITEM 1043 - PVC DOORS AND FRAMES Description PVC Oxors and Frames ITEM 1045 - ALLIMINUM CEILING PANEL
(Number) 1000 (1) Pay Item	(Subscript)	PART E - FORSHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sol Poloning	the		(Rumber) 1039 (I) Pay Item (Number) 1043 (I) Pay Item (Number)	Suffix	Attenue Catching ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALLINIAM CEILING PANEL Description
(Number) 1000 (1) Pay Item (Number)	(Subscript) Suffix (Subscript)	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sal Poloning ITEM 1001 - STORM DRAZNAGE AND SEWERAGE SYSTEM Description	Unit Of Hossure	37.5 TOTAL QEY	(Number) 1009 (1) Pay Item (Number) 10/G (1)	Suffix (Subscript)	Aumenin Checking TITEM 1043 — PVC DOORS AND FRAMES Description PVC Doors and Frames TITEM 1045 — ALLIMINUM CEILING PANEL Description Perforated Ceiling Panel
(Number) 1000 (1) Pay Item	(Subscript)	PART E - FINSHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sal Poloning ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM	the <	375	(Number) 1039 (1) Pay Bem (Number) 1043 (1) Pay Bem (Number) 1045 (1)	Suffix (Subscript) Suffix (Subscript)	Attenue Catching ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALLINIAM CEILING PANEL Description
(Number) 1000 (I) Pay Brem (Number) 1001 (I) 1001 (I) 1001 (S)	(Subscript) Suffix (Subscript)	PART E - FDESHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sal Roboning ITEM 1001 - STORM DRAZINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Crick Basin	Unit Of Measure Note: Nete: Such	37.5 TOTAL QIY 200 276 IB	(Rumber) 1039 (1) Pay Item (Number) 1043 (1) Pay Item (Number)	Suffix (Subscript)	Aumenin Checking TITEM 1043 — PVC DOORS AND FRAMES Description PVC Doors and Frames TITEM 1045 — ALLIMINUM CEILING PANEL Description Perforated Ceiling Panel
(Number) 1006 (I) Pay Item (Number) 1001 (I) 1001 (S) 1001 (S)	Suffix (Subscript)	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potenting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Contribusion Sommbratage and Downsport	Unit: Of Measure Meter Meter Sach Lamp Sum	37.5 TOTAL QIY 200 276 III	(Number) 1039 (1) Pay Bem (Number) 1043 (1) Pay Bem (Number) 1045 (1) Pay Bem (Number) 1045 (2)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21	Aumeum Chicking ITEM 1043 — PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 — ALLIMITHUM CEILING PANEL Description Perforated Ceiling Panel ITEM 1045 — MASONRY WORKS Description CH6 Non-Load Starting (Including Reinforcing Start)
(Number) 1000 (I) Pay Brem (Number) 1001 (I) 1001 (I) 1001 (S)	Suffix (Subscript)	PART E - FDESHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sal Roboning ITEM 1001 - STORM DRAZINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Crick Basin	Unit Of Measure Note: Nete: Such	37.5 TOTAL QIY 200 276 IB	(Number) 1039 (1) Pay Bern (Number) 1042 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript)	Aumeum Clading ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloated Ceing Panel ITEM 1045 - HASONRY WORKS Description ON Non-Load Bearing (Including Reinforcing Steel)
(Number) 1000 (1) Pay Bern (Number) 1001 (1) 1001 (1) 1001 (5) 1001 (1) Pay Eem	(Subscript) Suffix (Subscript) M B3 B Suffix	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sol Potoning ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Pipe and Fittings Somm	Unit: Of Measure Note: Note: Such Lamp Sum Lump Sum	37.5 TOTAL GIV	(Number) 1039 (1) Pay Bern (Number) 1043 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1046 (2) 1046 (2)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22	Aumenin Children ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALLIMITHUM CEILING PANEL Description Perforated Ceing Fanel ITEM 1045 - MASONRY WORKS Description CH6 Non-Load Starting (Including Reinforcing Steel) ITEM 1047 - METAL STRUCTURES
(Number) 1000 (1) Pay Rem (Number) 1001 (1) 1001 (3) 1001 (3) 1001 (3) 1001 (1) Pay Rem (Number)	Suffix (Subscript) Id I	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potenting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Contribusion Sommbratage and Downsport Septic Value Tibek ITEM 1002 - PLUMEDING Description	Unit Of Measure Peter Meter Sach Lamp Sum Lamp Sum Unit Of Measure	200 226 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Number) 1039 (1) Pay Bem (Number) 1043 (1) Pay Bem (Number) 1045 (1) Pay Bem (Number) 1045 (2)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21	Attribute Chading ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloased Ceing Panel ITEM 1045 - HASONRY WORKS Description ON Non-Load Bearing (Including Reinforcing Steet) IOS Non-Load Bearing (Including Reinforcing Steet)
(Number) 1000 (1) Pay Rem (Number) 1001 (1) 1001 (5) 1001 (5) 1001 (3) 1001 (1) Pay Rem (Number) 1002 (5)	Suffix (Subscript) M B3 b Suffix (Subscript)	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sol Potenting ITEM 1001 - STORM DRADNAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Pipe and Fittings Circh Basin Somm Dratage and Downspoot Septic Valua (Tirek ITEM 1002 - PLUMEDING Description Mater Coset, Enrystat, Complete	Unit Of Measure Meter Meter Such Lump Sum Lump Sum Unit Of Measure Set	37.5 TOTAL GIV	(Number) 1039 (1) Pay Bern (Number) 1043 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1045 (2) 1046 (3) 1046 (3) 1047 (6)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 2 Suffix (Subscript) 2	Aumeum Chading ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloased Ceing Panel ITEM 1045 - HASONRY WORKS Description OR Non-Load Staring Including Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Netal Structure Accessories
(Number) 1000 (1) Pay Rem (Number) 1001 (1) 1001 (3) 1001 (3) 1001 (3) 1001 (1) Pay Rem (Number)	Suffix (Subscript) Id I	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potenting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Contribusion Sommbratage and Downsport Septic Value Tibek ITEM 1002 - PLUMEDING Description	Unit Of Measure Peter Meter Sach Lamp Sum Lamp Sum Unit Of Measure	37.5 TOTAL GTY 230 276 18 1 TOTAL GTY 39	(Number) 1039 (1) Pay Item (Number) 1042 (1) Pay Item (Number) 1045 (1) Pay Item (Number) 1046 (2) 1046 (3) 1046 (3) 1046 (3) 1046 (3) 1047 (5)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 31 32	Attribute Chadding ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALLIANIMUM CEILING PANEL Description Perforated Ceiling Panel ITEM 3045 - MASONRY WORKS Description CHS Non-Load Searing (Including Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Netal Structure Accessories
(Number) 500(1) Pay Rem (Number) 1001(1) 1001(5) 1001(5) 1001(1) Pay Rem (Number) 1002(5) 1002(1) 1002(1) 1002(1) 1002(1) 1002(1)	(Subscript) Suffix (Subscript) Mi B3 B Suffix (Subscript) b a	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potoning ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Pipe and Fittings Somminary and Downspoot Septic Vaul Tink ITEM 1002 - PLUMEING Description Inter Coset, Enrystee Basten Swi, Compilete Basten Swi, Compilete Basten Swi, Compilete Floor Drain Parters	Unit: Of Measure Meter Meter Sach Lump Sam Lump Sam Unit: Of Measure Set Set Set Set	37.5 TOTAL GTY 220 276 18 1 1 TOTAL GTY 39 1 29 39 39 39	(Number) 1039 (1) Pay Bern (Number) 1043 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1045 (2) 1046 (3) 1046 (3) 1047 (6)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 2 Suffix (Subscript) 2	Aumeum Chading ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloased Ceing Panel ITEM 1045 - HASONRY WORKS Description OR Non-Load Staring Including Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Netal Structure Accessories
(Number) 1000(1) Pay Rem (Number) 1001(1) 1001(5) 1001(5) 1001(5) 1001(1)	(Subscript) Suffix (Subscript) M b3 b Suffix (Subscript) b a	PART E - FDESHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sol Roboting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pips and Fittings Pips and Fittings Pips and Fittings Civic Basin Somm Drainage and Downspool Somm Drainage and Downspool Somm Drainage and Downspool Somm Control Basin Somm Control Basin Somm Control Basin Somm Drainage and Downspool Somm Control Basin Somm Parties Stower read(Shower Valve Stower read(Shower Valve	Unit Of Measure Meter Such Lamp Sum Lamp Sum Unit Of Measure Set Set Set Set	37.5 TOTAL GTY 220 276 18 1 1 TOTAL GTY 39 1 29 30 36	(Number) 1039 (1) Pay Bem (Number) 1043 (1) Pay Bem (Number) 1045 (1) Pay Bem (Number) 1045 (2) 1045 (3) 1047 (5) 1047 (5) 1047 (5)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 2 4 5 5 6 6	Aumeum Cladding ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloated Ceing Panel ITEM 1045 - HASONRY WORKS Description Cris Non-Load Bearing (noteing Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Metal Structure Accessories Netal Structure Accessories Netal Structure Accessories Structurel Steel Structurel Steel Structurel Steel
(Number) 500(1) Pay Rem (Number) 1001(1) 1001(5) 1001(5) 1001(1) Pay Rem (Number) 1002(5) 1002(1) 1002(1) 1002(1) 1002(1) 1002(1)	(Subscript) Suffix (Subscript) M b3 b Suffix (Subscript) b a	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potoning ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Pipe and Fittings Somminary and Downspoot Septic Vaul Tink ITEM 1002 - PLUMEING Description Inter Coset, Enrystee Basten Swi, Compilete Basten Swi, Compilete Basten Swi, Compilete Floor Drain Parters	Unit: Of Measure Meter Meter Sach Lump Sam Lump Sam Unit: Of Measure Set Set Set Set	37.5 TOTAL GTY 220 276 18 1 1 TOTAL GTY 39 1 29 39 39 39	(Number) 1039 (1) Pay Item (Number) 1042 (1) Pay Item (Number) 1045 (1) Pay Item (Number) 1045 (2) 1046 (3) 1046 (3) 1047 (5) 1047 (5) 1047 (5) 1047 (6)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 2 2 3 4 5 5 6 2 5 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Aumenin Childry ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Figures ITEM 1045 - ALLIMITHUM CEILING PANEL Description Perforated Ceiting Fund ITEM 1045 - MASONRY WORKS Description CHI Non-Load Branks (Including Reinforcing Stee) ITEM 1047 - METAL STRUCTURES Description Metal Shudhar Accessories Metal Shudhar Accessories Shudhari Accessories Shudhari Accessories Shudhari Sheel
(Number) 1000 (1) Pay Bern (Number) 1001 (1) 1001 (1) 1001 (5) 1001 (5) 1001 (5) 1002 (5) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (22) 1002 (24)	Suffix (Subscript) It is is is subscript) Suffix (Subscript) Suffix (Subscript) a a at	PART E - FINSHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sal Poloning ITEM 1001 - STORIM DRAINAGE AND SEWERAGE SYSTEM Description Poe and Fittings Onch lessin SommDrainage and Downspout Septic Valua Tiels ITEM 1002 - PLIMBEING Description Mater Closet, Ecospital, Complete Staten Sisk, Complete Lavatory, Counter TopUnder Counter, Complete Floor Dain Partes Some Read/Shower Valve	Unit Of Measure Peter Meter Bach Lamp Sam Lamp S	37.5 TOTAL GIV 200 276 18 1 1 1 TOTAL GIV 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	(Number) 1039 (1) Pay Bern (Number) 1043 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1045 (2) 1045 (3) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 5 5 5 5 5 Suffix (Subscript)	Aumeum Cladding ITEM 1043 - PVC DOORS AND FRAMES Description PKC Doors and Frames ITEM 1045 - ALUMINUM CEILING PANEL Description Perloated Ceing Panel ITEM 1045 - HASONRY WORKS Description Cris Non-Load Bearing (reciding Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Metal Structure Accessories Netal Structure Accessories Netal Structure Accessories Structurel Steel Structurel Steel Structurel Steel
(Number) 1000 (1) Pay Item (Number) 1001 (1) 1001 (5) 1001 (5) 1001 (5) 1001 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (1) 1002 (2) 1002 (2) 1002 (2) 1002 (2) 1002 (2)	(Subscript) Suffix (Subscript) M BS BS Suffix (Subscript) B Suffix (Subscript) B a at	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Soll Potenting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Pipe and Fittings Contrib Basin Somm Drainage and Downsport Septic Work/Tinck ITEM 1002 - PLUMBING Description Water Closet, Enregisted, Complete Davisory, Counter Toplonder Counter, Complete Floor Drain Rates Somme read/Shower Valve Floor Brain Rates Cost Water Uses	Unit Of Measure Peter Meter Bach Lamp Sam Lamp S	37.5 TOTAL GIV 200 276 18 1 1 1 TOTAL GIV 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	(Number) 1039 (1) Pay Item (Number) 1042 (1) Pay Item (Number) 1045 (1) Pay Item (Number) 1045 (2) 1046 (3) 1046 (3) 1047 (5) 1047 (5) 1047 (5) 1047 (6)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 2 2 3 4 5 5 6 2 5 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Aumenin Childry ITEM 1043 - PVC DOORS AND FRAMES Description PKC Doors and Frames ITEM 1045 - ALUMINUM CELLING PANEL Description Perloated Ceing Panel ITEM 1045 - HASONRY WORKS Description OR Non-Load Braing (Including Reinforcing Steel) ITEM 1047 - METAL STRUCTURES Description Netal Structure Accessories Netal Structure Accessories Netal Structure Accessories Netal Structure Accessories Structurel Steel Structurel Steel Structurel Steel Structurel Steel
(Number) 1000 (1) Pay Rem (Number) 1001 (1) 1001 (1) 1001 (5) 1001 (5) 1002 (5) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (15) 1002 (22) 1002 (24)	Suffix (Subscript) It is is is subscript) Suffix (Subscript) Suffix (Subscript) a a at	PART E - FINISHING AND OTHER CIVIL WORKS ITEM 1000 - TERMITE CONTROL WORK Description Sol Potenting ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM Description Pipe and Fittings Onth Basin Sorm Drainage and Downspout Septic Work/Tank ITEM 1002 - PLUMBEING Description Matter Choict, Enogeting, Complete Souther Sink, Complete Davistory, Counter TopUnder Counter, Complete Floor Drain Partes Scower Read/Shower Valve Floor Basin Cold Water Lines ITEM 1003 - CARPENTRY AND XODERY WORKS	Unit Of Measure Peter Meter Bach tump Sam Lamp Sam Limit Of Measure Set Set Set Set Fece Lamp Sam	37.5 TOTAL GIY 200 276 18 1 1 1 TOTAL GIY 39 39 39 30 40 1	(Number) 1039 (1) Pay Bern (Number) 1043 (1) Pay Bern (Number) 1045 (1) Pay Bern (Number) 1045 (2) 1045 (3) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5) 1047 (5)	Suffix (Subscript) Suffix (Subscript) Suffix (Subscript) 21 22 Suffix (Subscript) 5 5 5 5 Suffix (Subscript)	Aumenin Childry ITEM 1043 - PVC DOORS AND FRAMES Description PVC Doors and Frames ITEM 1045 - ALLIMITHUM CEILING PANEL Description Perforated Ceiting Fund ITEM 1045 - MASONRY WORKS Description CHI Non-Load Branks (Including Reinforcing Stee) ITEM 1047 - METAL STRUCTURES Description Netal Shudhar Accessories Netal Shudhar Accessories Shudhard Steel ITEM 1051 - RAILINGS Description

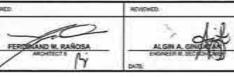
		PART F - ELECTRICAL TITEM 1100 - CONDUITS, BOKES AND FITTINGS		
Pay Item (Number)	Suffix (Subscript)	Description	Unit Of Hospure	TOTAL Q
1100 (5)		Rigid Polyvinyl Chloride Pipes (PVCIsPVC)	Heter	546
1100 (5)		Rigid Polyvinyl Chloride Pipes (PVC)(PVC)	Heter	6
1100 (6)	d .	Rigid Rolyvinyl Dilorde Pipes (PVC)UPVC)	Meter	6
1100 (10)		Conduts, Stores & Fittings (Condut Works/Condut Rough-In) ITEM 1101 - WIRES, CABLES AND WIRENG DEVICES	tump Sum	1
Pay Item (Number)	Suffix (Subscript)	Description	Unit Of Measure	TOTAL O
1101 (2)	102	Secal: Wite	Reter	5175
1101 (2)	м_	Searc Wite	Neter	81
1101 (2)	85	Secre: Whe	Heter	207
1101 (2)	b8 /	Seat We	Retor /	54
1101 (S)		Single Pole Wall Switch on one switch plate	Set	- 6
1101 (9)		Duplex (2 Single Pole Wall Switches on one switch plate)	Set	78
1101 (日)		Trace-way Switch	Set	6
1101 (16)		Duples Convenience Outlets/Receptacles (GT)	Set .	117
JT 84 11	02 - POWER LOAD	CENTER, SWITTCHGEAR AND PANELBOARDS, AND OTHER OVERCE	URRENT PROTECTION DE	9105
Pay Item (Number)	Suffix (Subscript)	Description	Staff Of Measure	TOTAL C
110740		Paneboard with Hain & Branch Breakers	tump Sum -	1.
		ITEM 1103 - LIGHTING FOXTURES		
Pay Item (Number)	Suffix (Subscript)	Description	Unit Of Heasure	TOTAL Q
\$103 (X)		Lighting Pictures	Lump Son /	1.
2103 (I)	Suffix	PART G - MECHANICAL ITEM 1200 - AIR CONDITIONING AND VEHITLATING SYST	81	1
(Number)	(Substript)	Description	Unit Of Measure	TOTAL Q
1200 (5)	1 2	Exhaust Ferr	Set	36
Pay Item (Number)	Suffix (Subscript)	TIBH 1202 - AUTOHATIC FIRESPRINGER SYSTEM (APSS) Description	Unit Of Measure	TOTAL Q
		Fire Entirquisiter	A CONTRACTOR OF THE PARTY OF TH	



PROJECT WHIE AND LOCATION					
	ONSTRUCTION OF 3-UNITS 7018				
	PERSONNEL BARRACKS, 701st IGADE, SITIO MAGAY, BARANGA				
1	MARUNDAN, MATI CITY, DAVAD	ORIENTAL			

SUMMARY OF QUANTITIES	

SHEET CONTENTS



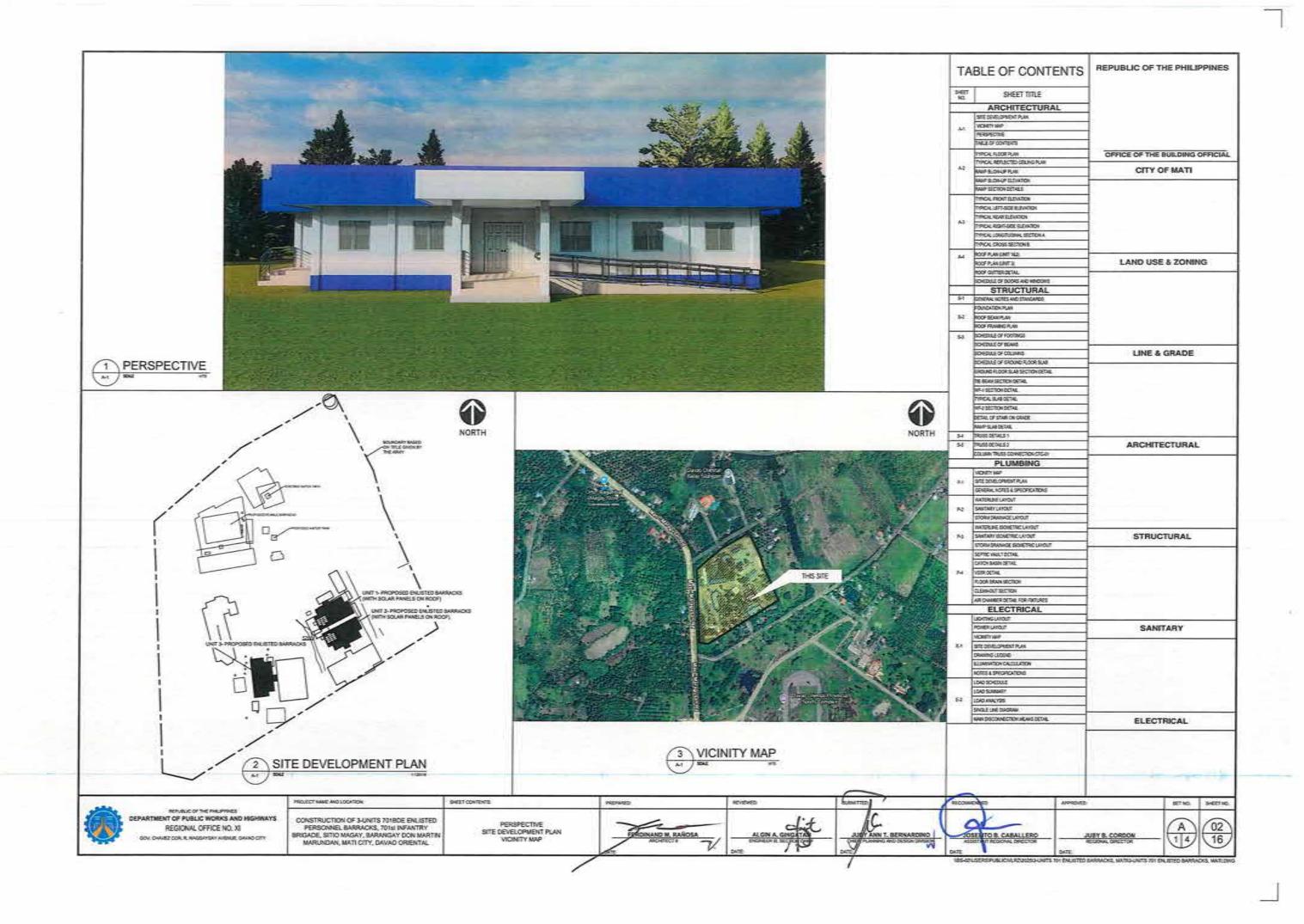


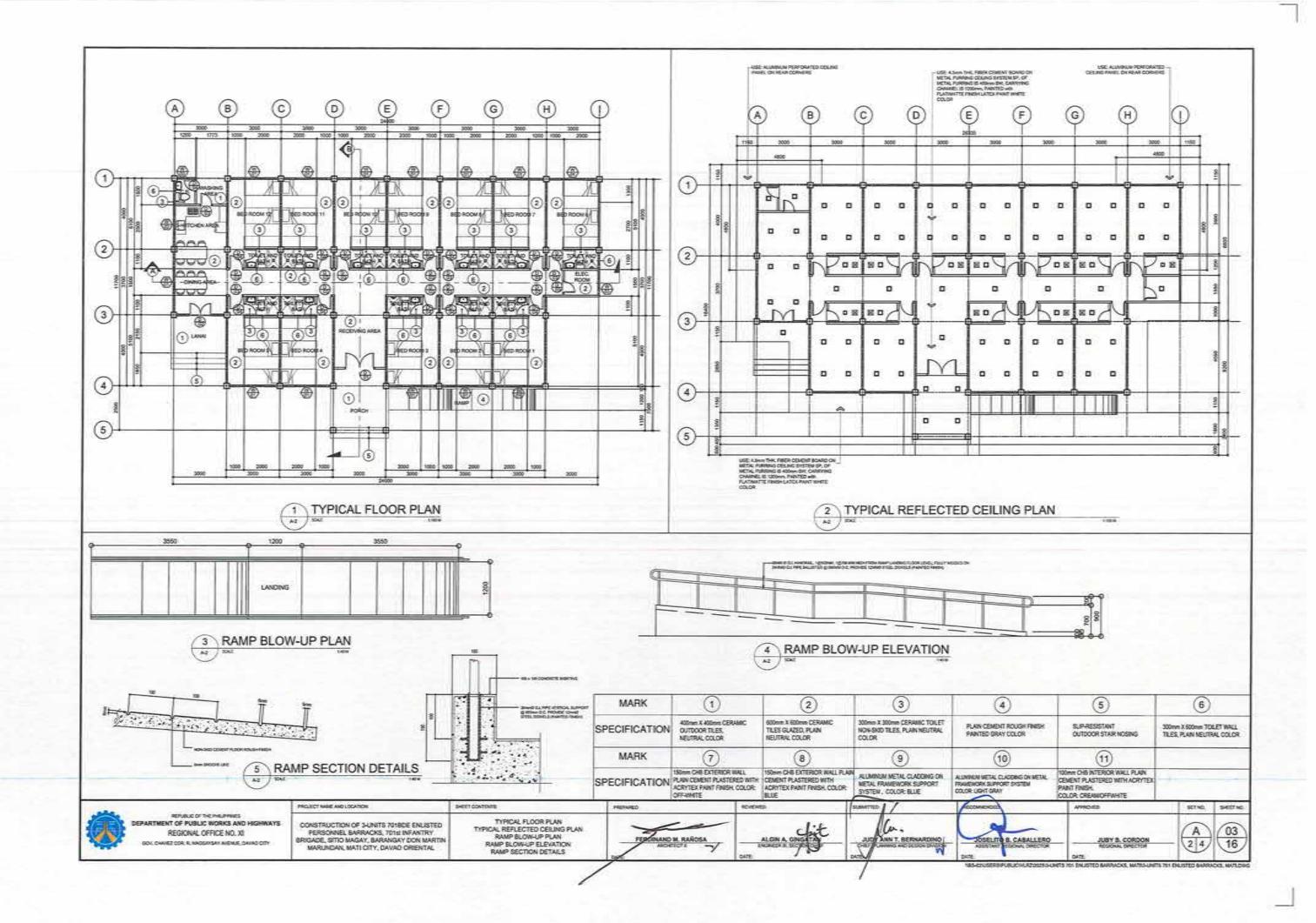


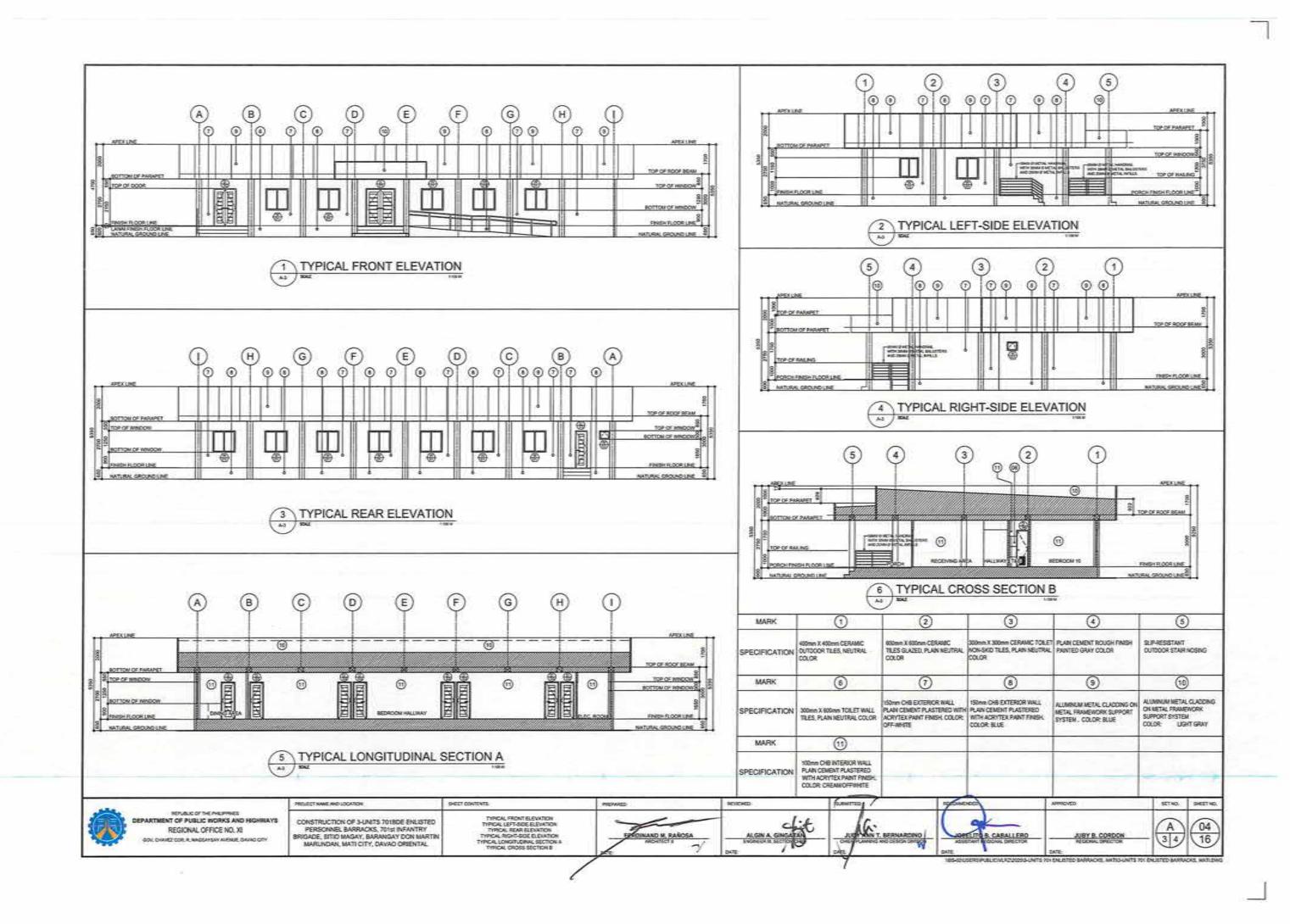
16

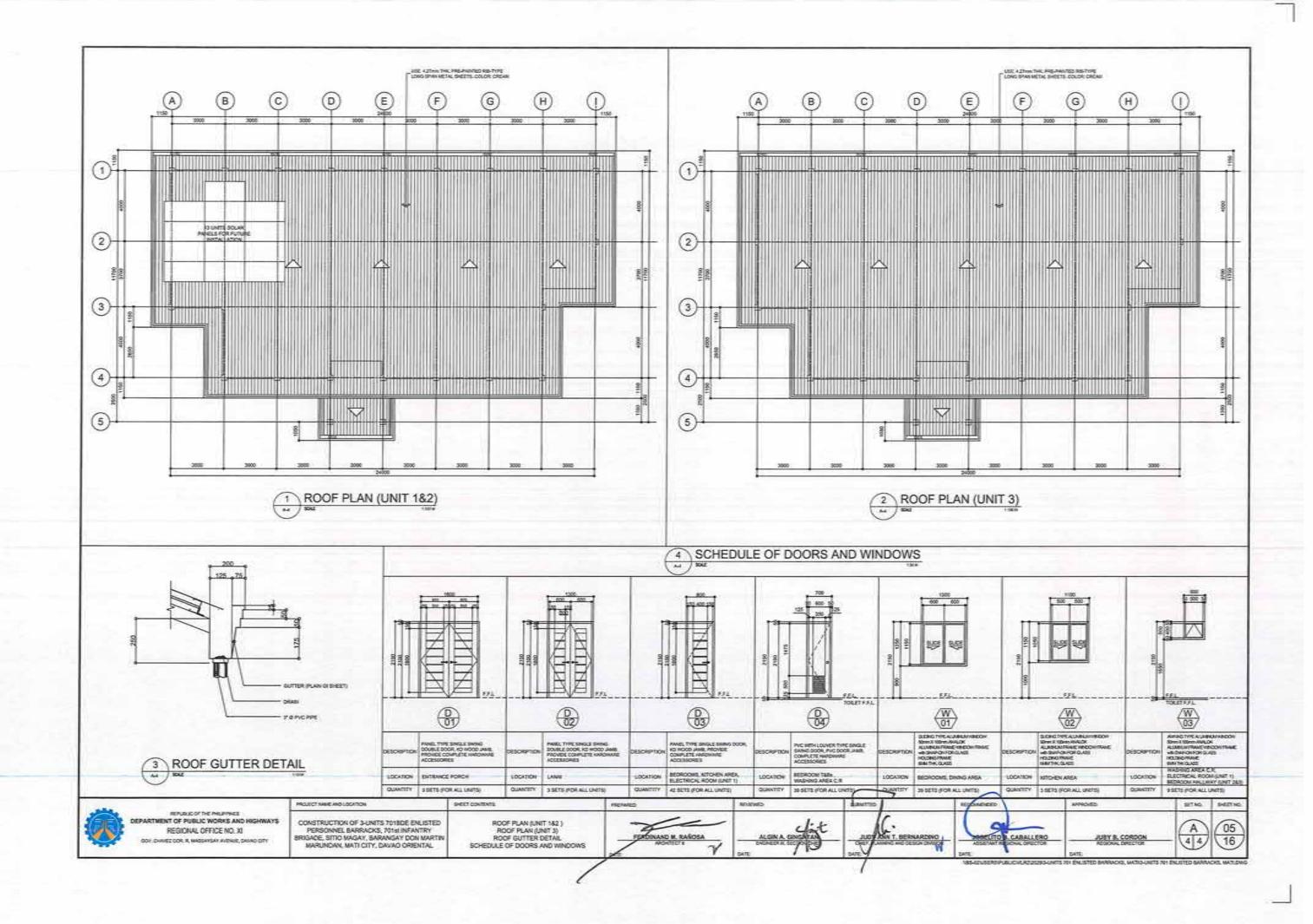
SETNO. SHEETNO.

01









GENERAL NOTES & STANDARDS

GENERAL

 IN THE INTERPRETATION OF THESE DRAWINGS INDICATED DIMENSIONS SHALL COVERN ALL DIMENSIONS, DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. 2. UNLESS OTHERWISE SPECIFIED ON PLANS, ALL DINENSONS ARE IN NETERS.

B. DEAD LOAD

DESIGN CRITERIA

I. DESIGN SPECIFICATION

ALL DESCIN SHALL CONFORM TO INITIONAL STRUCTURAL CODE OF THE PHILIPPINES (INSOF) FOR BULDINGS, TOWERS & OTHER MERTICAL STRUCTURES, 7Th EDITION 2015, WHICH INCLUDES SESSING DESCIN.

C WIND LOAD

2. LO40INGS

A. LIVE LOAD

(1) ROOF = 0.60 kPe (2) RLOOR = 2.40 kPe (3) TOLET = 2.40 kPe (4) STARS = 2.40 kPe	(1) CONDRETE = (2) STEEL = 76 (3) OHB = 2.73 (4) STEEL DECK (5) CEUNG = 0 (6) TLES = 0.91	93 My/m^3 KPe = 0.08 KPe :38 KPe	Ce = CUST = 0.67 Cq = PRESS = 0.30 = 0.70	WIND PRESS. FACTOR ODERF. URE COEFF. NNARO DUTWARD
o. SEISMIC LOAD v = ZIC(N) By			0s = 1.0 kF	WHO! FAC.=1.5
where: V = 10TAL BASE SHEAR Z = SESSMC ZONE FACTO I = MAPORERNOE FACTOR		C = MUNE)	ICAL COEFF. SI	CERMINATION C 2.75
Rw = NUMERICAL COSFF. W = 301AL DEAD WEIGHT	= 8.5		S DEFF. = 1.0 MENTAL PERIOD	OF VISRATION

MOTES ON FOUNDATION

1. IN CASE THE ACTUAL SOIL BEARING PRESSURE IS FOUND LESS THIN THE ALLOWABLE VALUE 96 KPs, NOTIFY THE DIR. OF OPINH REGIONAL OFFICE XI FOR PROPER DESIGN OF FOOTING 2. NO FOOTING SHIEL REST ON FILE

MATERIALS

I CONCRETE

UNLESS INDICATED OTHERWISE ON PLANS, THE CONCRETE CLASS AND STRENGTH SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER	CLASS	28-DAY CYLINDES STRENGTH	
		MPs	- 73
OUTING AND TED BEARS	- X	21.00	3,300
HALL HARTITIONS		1126	2,500
TOLUNING BEANS AND 9 AMS		. 21.59	1,000

2. REINFORCING STEEL

- (e) PENFORCING STEEL SHALL CONFORM TO AMSHTO MOT (ASTM ABIS), GRADE 40, DEFORMED WITH MIN. YELD STRENGTH, 6y=275 MPG (40,000 PS) FOR BARS 16mm # OR SAMLER & GRADE 60 WITH MIN. YELD STRENGTH, 6y=414MPG (80,000 PS) FOR LARGER THAN TERMINE.
- (b) REINFORCING STEEL SHALL BE FREE OF WILL SCALES, DIL OR ANY SUBSTANCES WHICH WILL NEWSON THE BOND, WITH CONCRETE

3. STRUCTURAL STEEL, BOLTS and WELDS

MATERIAL	SPECIFICATION
DUSSES, PURLINS, PLATES.	ASTM.4-56 (s = 348 MPs
101.75	ASTM A-307 fr = 49 MPs; fo = 96.60 MPs
WELDS	E = 10xx ELECTRODES 6 = 94 MPx

CONSTRUCTION

CONSTRUCTION SPECIFICATION: 1995 OPHIH STUNDARD SPECIFICATIONS FOR PUBLIC WORKS STRUCTURES (VOL. II AND VOL. III)

THE SETTING OUT AND THE ELEVATIONS OF THE EXPERIENT COMPONENTS OF THE STRUCTURE SHALL BE APPROVED BY THE ENGINEER PROFITO THE START OF MYY CONSTRUCTION WORK.

- 2. REINFORCED CONCRETE
 - a. CONCRETE MX AND FLACING
 - (1) DESIGN OF CONCRETE MIX SHALL MEET THE DESIGN CONCRETE STRENGTH GIVEN UNDER ITEM 1 OF INCERNALS.
 - (2) CONCRETE SHALL BE DEPOSITED, VIBRATED AND QUIRED IN ACCORDANCE WITH THE SPECIFICATIONS (3) THE CONTRICTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL PLACING SEQUENCES FOR ALL CONCRETING WORK.

GENERAL NOTES AND STANDARDS







ASSISTANT RESIDUAL DRECTOR

APPROVED SETTION SHEET WO S 06 JUSY 8, CORDO 1 5 (16)

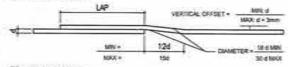
A. CONCRETE HIX AND PLACING

- (1) DESIGN OF CONCRETE MIX SHALL MEET THE DESIGN CONCRETE STRENGTH OVEN UNDER ITEM I OF MATERIALS.
- (2) CONCRETE SHALL BE DEPOSITED, VIBRATED AND DURED IN ACCORDANCE WITH
- (3) THE CONTRACTOR SHALL SUBMIT TO THE DIGNEER FOR APPROVAL PLACING SEQUENCES FOR ALL CONCRETING WORK.

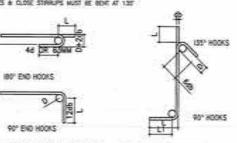
1. BAR BENDING, SPLICING AND PLACING

- (1) THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL OF SHOP DRIBBINGS INDICATING THE BENONG, CUTTING, SPLICING AND INSTALLATION OF ALL REINFORCING BARS. F. FORHWORK
- (2) BARS SHALL BE BENT COLD, BARS PARTIALLY EXSEDDED IN CONCRETE SHALL NOT BE
- (3) BAR SPLICING NOT INDICATED ON DRAWINGS SHALL BE SUBJECT TO THE APPROVAL OF \$1. STRUCTURAL STEEL THE ENGINEER.
- (4) NELDED SPLICES, IF APPROVED BY THE ENGINEER, SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFED YIELD STRENGTH OF BARS.
- (3) NOT MORE THAN SOS OF THE BARS AT ANY ONE SECTION SHALL BE SPLICED.
- (8) UNLESS OTHERWISE SHOWN ON DRIVINGS, THE CLEUR DIST, BET, PARRILLE BARS IN A LAYER SHALL NOT BE LESS THAN 1.5 TIMES THE NOW, DAWL OF THE BAR NOR LESS 1644 1.5 TIMES THE WAX. SIZE OF COARSE ACCREGATE, THE CLEAR DIST. BET. LAYERS SHALL MOT BE LESS THAN 25mm NOR ONE BAR DIAMETER. THE BARS IN THE UPPER LATER SHALL BE PLACED DIRECTLY ABOVE THOSE IN THE BOTTON LAYER.

(7) DRAWED SPLICES



- (B) HOOKS & BENTS
- ALL RENFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCT, ENCH. REMONDEMENT PARTIALLY EXPECTED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN ORIGINALS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TES & CLOSE STRRUPS MUST BE BONE AT 135"



PIN CHANETER: D=8d FOR \$10 THRU \$25 D-8¢ FOR #28, #32 AND #36 D-8d FOR 425, 432 AND 436

MAIN BAR END HOOKS (ALL GRADES)						
BAR SIZE	DIAMETER	180° HOOK		90° 800K		
(DEFORMED)	999	0+56	1.4	L.		
HOCKE	60	15	115	150		
125049	73	106	150	290		
165060	92	125	115	250		
25042	105	150	290	106		
255650	150	200	1250	450		
28040	249	300	250	150		
30040	300	305	458	900		

STIRRUPS AND THE HOOKS (ALL GRADES)						
BAR SIZE	DIAMETER	80" 8	95" 8006			
(DEFORMED)	290	0+16	L	1		
(0.00)	-40	125	- 35	198		
1210000	30	185	115	115		
163/040	66	300	340	150		
30000	103	250	165	300		
296049	159	364	210	405		

t. CONCRETE COVER TO REINFORCEMENT

MINIOUM CONCRETE COVER TO RESPONDENCIAL BE 75mm UNLESS SHOWN OTHERWISE ON DRAWINGS.

s. CONSTRUCTION JOINT

- (1) THE POSITION AND FORM OF ANY CONSTRUCTION JOINTS SHALL BE AS SHOWN ON DRAWINGS OR AS AGREED WITH THE ENGINEER
- (2) THE INTERFACE BETWEEN THE FIRST AND SECOND FOUR OF CONCRETE SHALL BE ROUGHED WITH AN AUGUSTUSE OF Series MANAGEM.

E. FALSEWORK

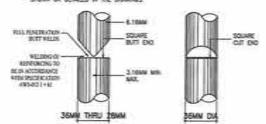
ALL FALSEWORK SHALL BE DESIGNED BY THE CONTRACTOR SUBJECT TO THE APPROVAL BY THE ENGINEER, THE FALSEWORK SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.

FORWING'NG SHALL BE CONSTRUCTED SUCH THAT IT WILL NOT YELD UNDER THE LOAD AND SHALL BE AS TO AHOD THE FORWINGN OF FINE.

- B. ACTUAL TABRICATION OF STEEL TRUSSES, WEMBERS WEETING AT A POINT SHALL HAVE THEIR CRAWTY AXIS INTERSECT AS NEWRLY AS PRACTICABLE AT A COMMON POINT.
- b. STRUCTURAL STEEL TO BE USED FOR FABRICATION ANDERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINDHE PROVISION OF ASS SPECIFICATION FOR THE DESIGN. FABRICATION AND SPECITION OF STRUCTURAL STEEL FOR BULDING 1880, BH EDIDIN
- C. ALL STRUCTURAL STEEL SHAPES SHALL BE ASTN A-35 STRUCTURAL STEEL UNLESS DIHERWISE
- 4. ALL WRIDER CONNECTIONS SHALL DEVELOP THE FILL STREAGH OF THE MEMBERS CONNECTION
- e. ALL BOUTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTN 307 BOLTS.
- THE CONTRACTOR SHALL PROVOE TEMPORARY EFECTION BRACINGS AND SHORING, AND MAKE ACTUAL MEASUREMENTS IN THE FELD PRIOR TO FABRICATION/INSTALLATION OF ALL TRUSSES.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWNEDS FOR ALL STRUCTURAL STELL WORKS, THESE SHOP DRAWNINGS SHALL BE APPROVED BY THE REE, DR., DPWH R.D. XI BETSTER ANY FARRISHOON COMMENCES.

NOTES ON WELDS

1 - USE EPOX ELECTRODES FOR ALL MEMBERS WELDED. 2 - MELIES SMALL DOVELOP THE FILL STRENGTH OF MEMBERS JONED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRIVINGS.



4. CAST-IN-PLACE (COLUMNS, BEAMS & SLAB)

a. THE COMPRACTOR SHALL SUBMIT DESIGN COMPUTATIONS AND SHOP CRAININGS FOR ALL PRE CAST/MPE-STRESSED MEMBERS, DULY SIGNED AND SEALED BY A STRUCTURAL ENGINEER BETORE ANY PARRICUTION, ERECTION AND INSTALLATION COMMENCES, THESE SHOP OPMINIOS SHALL BE APPROVED BY THE REDIGIAL DIRECTOR, EPHH R.D. XI.

5. CONCRETE HOLLOW BLOCK WALLS:

STAN

1,300 1,300 1,000

1384 1384 1804

ESN ESN ESN

Litte

- 1 UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLODGS AND CERRICO BLODGS SHALL BE PERFORCED AS SHOWN IN THE SCHEDULE OF COMPRETE HOLLOW BLODGS AND CERRICO BLOCK REMOTROPHER.
- 1 PROVIDE 150NW X 300NW STIFTDER COLUMN RENFORCED WITH 4-12NW WITH SHAW TES AT 150NW ON CENTER WHERE CONCRETE HOLDOW BLOOKS TEAMWRIES AND AT EIGHT JOON OF CONCRETE HOLDOW BLOOK WILLS UNLESS NOTED IN STRUCTURAL PLANS.

SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

BLOCK THICKNESS	REINFOR	TIENED	NOTES
	HORZONIAL	VERTICAL	- Mulica
75MM	IDDE SAMPEOC	2010009 9 1001	A NORMONULARS AT BRUCE - 8.200
329/6/	IBOK § KMOLOC	MARIE HOSBICC	AT CONCESSION
250568	IDM § MMOCOC	10016 600010'C	C MHENE CHE ON CHE SEL WALL DOWNES KINNOW, BY BROAD AND WALL DOWNES
200A(1) E	IBMM 6 SWRWING C.	leas gamesoc	NEW THE SAME SIZE AS VEIC OR BOX. RENYOR COMEN'S SIMEL BY PROVIDED.

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS. LINTEL IN BLOCK WALLS

1400 1400 1400

1406 1406

REINFORCEMENTS

1400 1400 1400

1417 1417

STIBBURS

0001 (3000)

**	Z	Name and the contract of the c
	388 COMMENTS STATE OF THE STATE OF SHOOT S	
	PARALLE TO SIZE OF OFFINING FOUND TO THE WARREST TERMINATED BAYS AT OFFINIO. SEE ARCHITECTURAL & MEDIUMON.	

TYP. EXTERIOR WINDOW & DOOR OPENING

1. ALL JOHPS AND CELLS CONTAINING REINFORCING

2. FOR REINFORCEMENTS SEE

TYPICAL CONNECTION DETAIL OF MASONRY WALL

TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

- gisserscapus

- Heleologytti hak

OF BOIL & YEST DIRS

- AC COLUMN DE CONTRACT.

DOWN, SHRESTOWN, TO COST SIGN, SHRES

USAN THE EXPUSSION WHITE MAKEN FILLER

TYPICAL DETAIL FOR BEAM

OR SLAB CHANGE SOFFIT

(MNC)

D - FOR BEAM 21 - FOR SLAS

30 BAR DIA.

30 BAR DIA 30 BAR DIA

CONTENT

OPENING OR END WALL

INTERSECTING R.C. COL. OR WALL

CAN THE ESPANSION SON WITH MADE TILLING

LARRIED SOT BUT

THE WAY FOR SEEL SWONG SECONDS

CORNER WALL

THE THEY WERE THE

CHARLES COPARSON COST

INTERSECTION WALL

TYP. SECTION OF MASONRY

PARTITION REINFORCEMENT

TREADS WEST

-DETAIL

PLANS FOR SLAB OPENING LOCATION.

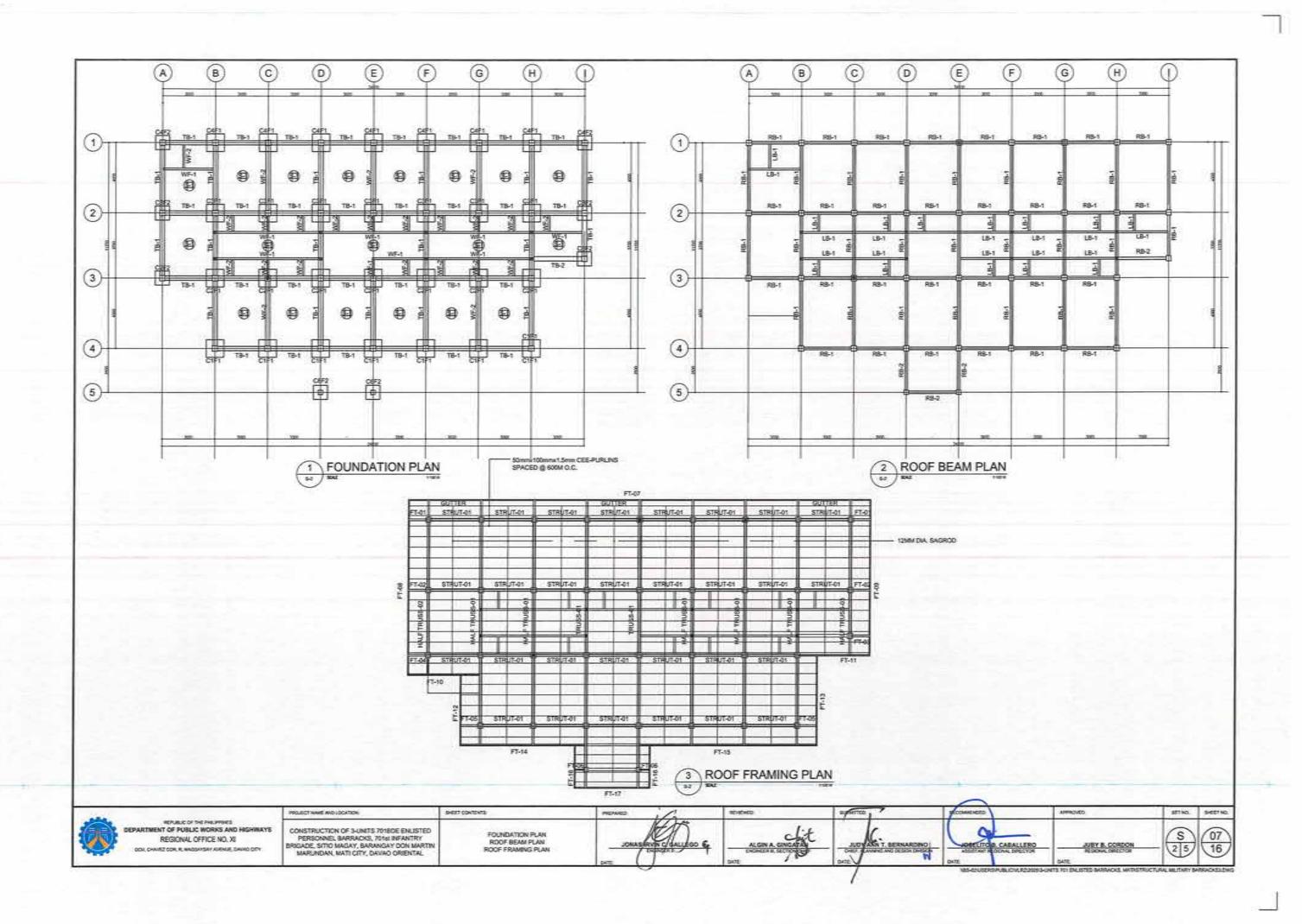
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. XI

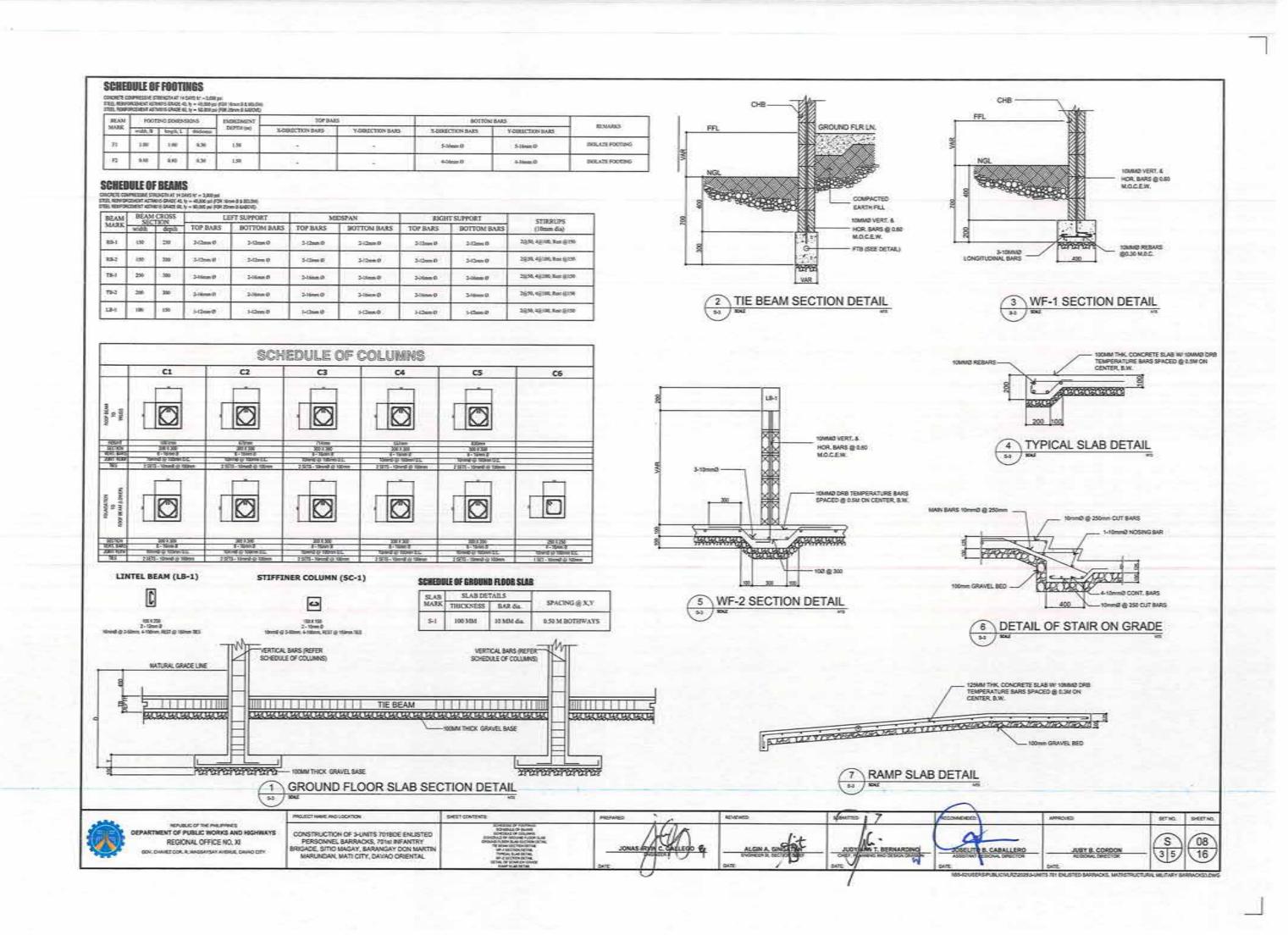
GOX; CHAREF COR, R. MASSAYSAY AVENUE, DAVAG CTI

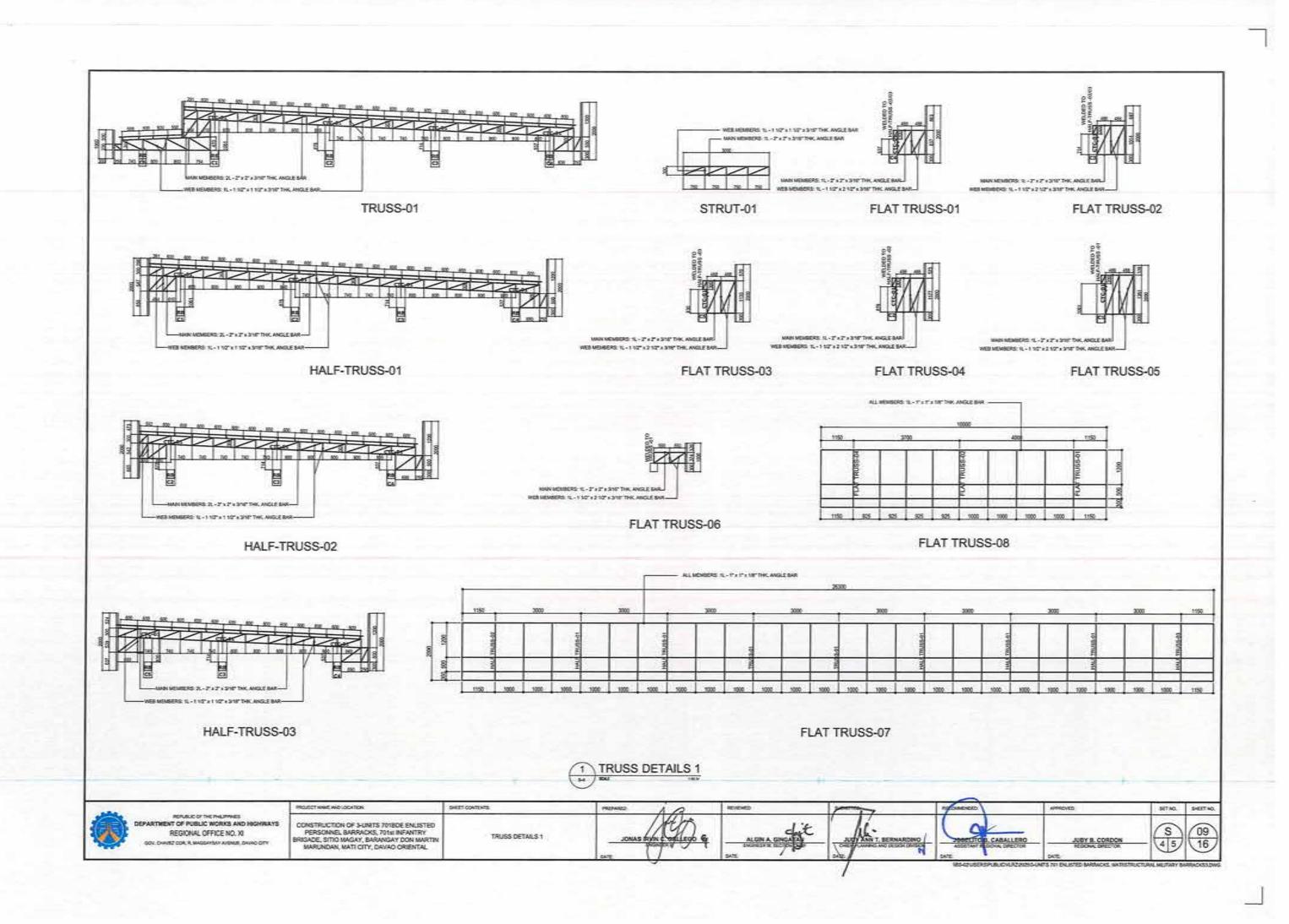
CONSTRUCTION OF 3-UNITS 701BOE ENLISTED PERSONNEL BARRACKS, 701st INFANTRY RIGADE, SITIO MAGAY, BARANGAY DON MARTIN MARUNDAN, MATI CITY, DAVAD ORIENTAL

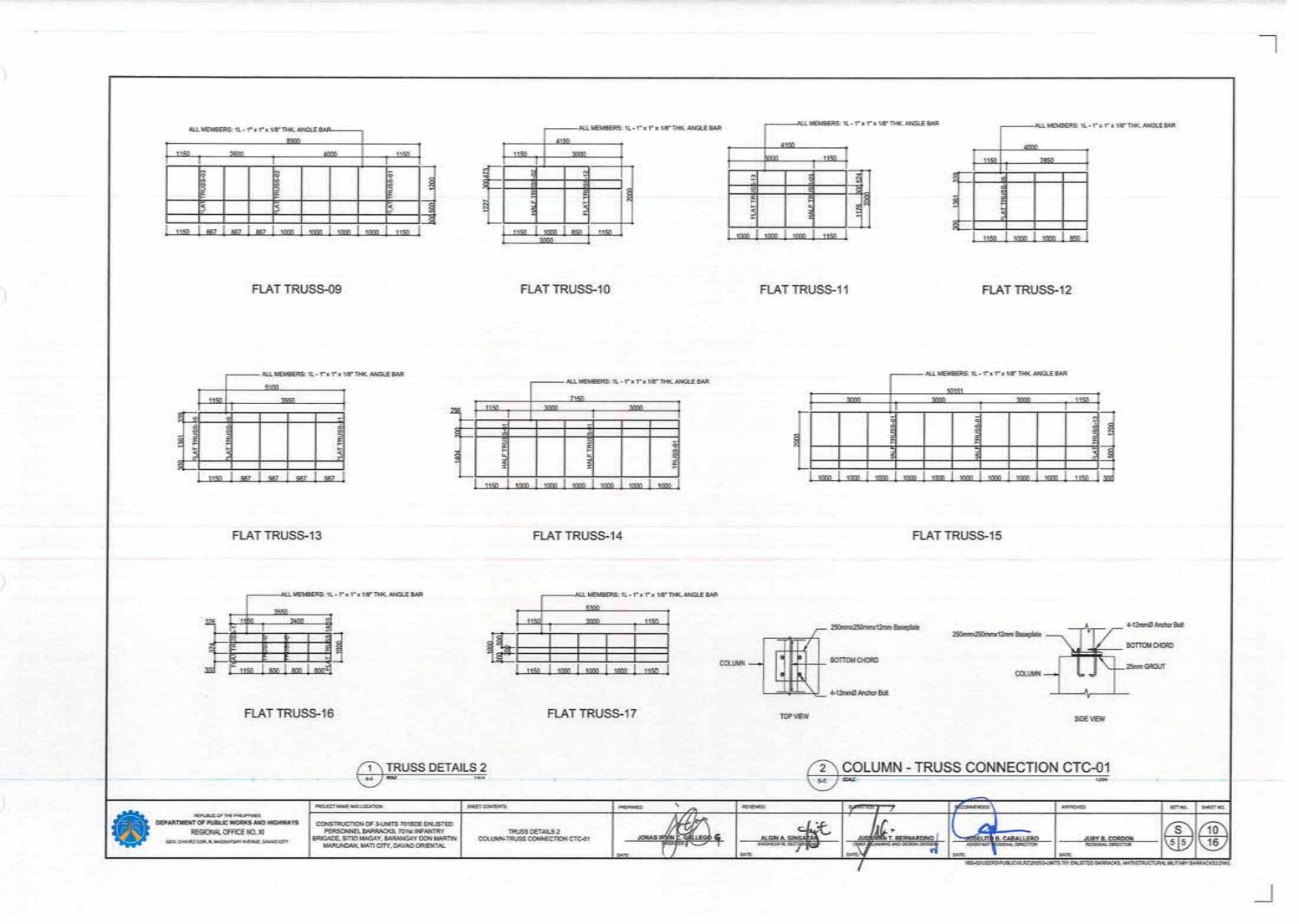
PROJECT NAME AND LOCATION



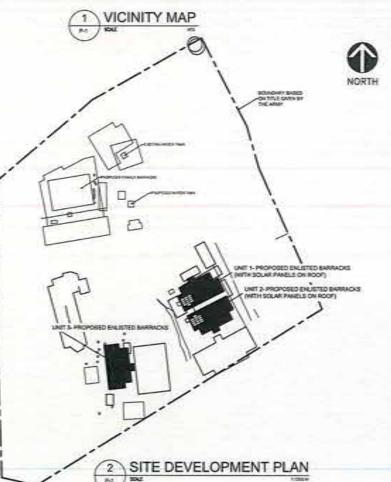












GENERAL NOTES

- ALL PLUMBING WORKS INCLIDED HEREN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES. THE NATIONAL CODE AND THE RULES AND REGULATIONS OF THE CITY/MUNICIPALITY.
- 2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS. THE PLUMBING ENGINEERMASTER PLUMBER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON THE PLANS ANY RELOCATIONS REQUIRED FOR PROPER EXECUTIONS OF OTHER TRADES SHALL BE WITH THE PRIOR APPROVAL BY THE ARCHITECTI
- ALL PIPING SHALL BE APPROVED STANDARD IN CONFORMITY WITH THE REQUIREMENT OF THE NATIONAL BUILDING CODE OF THE PHILIPPINES.
 - A. FOR WATER LINES USE:
 - 1 NOHIN DAWETER FOR MAIN LINE, UP FEED LINE AND DOWN FEED LINE
 - MCH IN CHAMETER FOR BRANCHES
 - NOH IN COMMETTER FOR FIXTURES.
- B. FOR SANTARY LINES USE: 2 INCHES IN DIAMETER PIC PIPE SCHEDULE 1000 FOR LAWATORY, KITCHEN SINK, SINK, DRAIN BOWL, FLOOR DRAW AND VENTILATION PIPES.
- 5. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES. AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- ALL SLOPES FOR HORIZONTAL SEWER LINES SHALL MAINTAIN 2 % AS NOMINUM UNLESS OTHERWISE SPECIFIED.
- SZE OF WATER SUPPLY PIPES TO FIXTURE SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 8. THE CONTRACTOR SHALL VERIFY ALL EXISTING LITLLITIES AT THE SITE SUCH AS DISPOSAL POINT FOR SEWAGE, EFFLUENT, STORM DRAINAGE AND WATER LINE SERVICE CONNECTION POINT.
- 9. ALL PIPE SIZES ARE IN MILLIMETER NOMINAL INSIDE DIAMETER AND ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED. 10. ALL SEMER PIPES EMBEDDED ON GROUND AND BELOW
- CONCRETE SLAB SHALL BE PROVIDED WITH SAND BEDOING 11. ALL FIXTURES FOR COMMON WASTE LINE SHALL BE PROVIDED
- WITH AR CHAMBER AND MUST BE INDIVIDUALLY VENTED, UNLESS OTHERWISE INDICATED.
- 12. FONT SUPPLY SPOUT SHALL BE PLACED 0,20M FROM THE FONT
- 13. PROVIDE CLEANOUTS FOR EVERY CHANGE OF DIRECTION AND FOR EVERY 15 METERS HORIZONTAL RUN FOR SEWER & STORM DRAMAGELINES
- 14. SEPTIC VALLET SHALL BE MADE WATER TIGHT OF CONCRETE, AS WITH THE VALLTS INFLUENT (INLET) AND EFFLUENT (OUTLET.) ARE SUBMERGED AND ARRANGED IN SUCH A WAY THAT NEITHER SLUDGE NOR SCUM SHALL BE UNDULY DISTURBED.
- 15. STORM DRAINAGE SHOULD BE REQUIRED TO COLLECT STORM WATER AND DISCHARGED TO AN APPROVED POINT OF DISPOSAL NOT IN CONFLICT WITH OTHER ORDINANCES OR REGULATIONS.
- 16. ALL DRAINAGE PIPES SHOULD BE GRADED PROPERLY OR INCLINED FOR A DOWNWARD GRAVITY, FLOW OF WATER TOWARDS THE MAIN SEWER LINE.
- 17. DRAINAGE PIPE SHOULD BE PROVIDED WITH ADEQUATE CLEANOUTS WHICH IS ACCESSIBLE FOR SERVICING OF REPAIR IN CASE OF STOPPAGE.
- 18. DRAINAGE SYSTEM SHALL BE PROVIDED WITH VENTILATION PIPE WHICH WILL CONVEY GASES TO THE ATMOSPHERE WHERE IT CAN DO NO HARM TO HUMAN HEALTH.
- 19. ALL PLIMEING WORKS SHALL BE DONE UNDER THE DIRECT OR MMEDIATE SUPERVISION OF A DULY REGISTERED SANITARY BYGINEER OR PLUMBING ENGINEER MASTER PLUMBER.

GENERAL NOTES & SPECIFICATIONS:

- 1. ALL PLUMBING WORKS SHALL CONFORM WITH THE RULES AND REGULATIONS OF THE NATIONAL PLUMBING CODE
- FOR WATER LINES
 2. USE PPR PIPE 25 mm DIA FOR MAIN AND ENTRANCE PIPE AND 25 mm DIA FOR BRANCH AND
- FIXTURE PIPE FOR SOL LINES

 3. USE PVC PIPE PLASTIC PIPE 50 mm DIA FOR VENTS AND FIXTURE PIPE, AND 100 mm DIA.
- FOR MAIN AND 100 mm FOR WATER CLOSET
 ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE
 ALL PLUMBING INSTALLATIONS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A
 DULY LICENSED MASTER PLUMBER

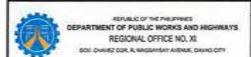
COCCUERCATION

DECOMPTION

LEGEND

MARK PRAMERO

MARK	DRAWING	DESCRIPTION	SPECIFICATION
	[8]	CATCH BASIN	150mm B X POLYVINYL CHLORIDE (PVC) / SERIES 1000
	FD	FLOOR DRAIN	
	VTR	VENTILATION THRU ROOF	50mm & POLYVINYL CHLORIDE /PVC)/SERIES 1000
(1)	●	50mm & X 90d ELBOW	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(2)	B	50mm Ø X 45d ELBOW	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(3)	•	50mm Ø CLEANOUT	POLYVINYL CHLORIDE (PVC) / SERIES 1000
0	all a	50mm Ø TEE	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(5)	₩	Somm @ P-TRAP	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(3)	1	50mm Ø WYE	POLYVINYL CHLORIDE (PVC)/ SERIES 1000
0		100mm FLOOR DRAIN	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(3)	all a	100mm & TEE	POLYVINYL CHLORIDE (PVC) / SERIES 1000
9	形	100mm Ø X 45d ELBOW	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(10)	0	100mm Ø X CLEANOUT	POLYVINYL OHLORIDE (PVC) / SERIES 1000
1	曲	100mm Ø X 50mm Ø WYE REDUCER	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(12)	Œ	100mm Ø X Sömm Ø TEE REDUCER	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(13)	4	100mm Ø WYE	POLYVINYL CHLORIDE (PVC)// SERIES 1000
14	曲	100mm Ø X 90d ELBOW	POLYVINYL CHLORIDE (PVC) / SERIES 1000
(15)	4	50mm 8 TEE-WYE	POLYVINYL CHLORIDE (PVC)./ SERIES 1000
(6)	B	150mm 8 X 45d ELBOW	POLYVINYL CHLORIDE (PVC) / SERIES 1000
17)	SV	SEPTIC VALUET	
(8)	WC	WATER CLOSET	
(19)	s	SIMK	
28	BS	BAR SINK	
21	FCO	FLOOR CLEAN OUT	
2	00	CLEAN OUT	
23	LAV	LAWATORY	
24	E	FAUCET	NOTE
(3)	VS	VENT STACK	ALL ARCHITECTURAL PLANS SHALL
26)	SS	SLOP SNW.	PREVAIL OVER ALL ENGINEERING PLANS WITH REGARDS TO DIMENSIONS, ANY DISCREPANCIES FOUND HEREIN SHALL BE VERIFIED WITH THE ARCHITECT.



DESCRIPTIONS AND LOCATION

CONSTRUCTION OF 3-UNITS 701BDE ENLISTED PERSONNEL BARRACKS, TOTAL INFANTRY RIGADE, SITIO MAGAY, BARANGAY DON MARTIN MARUNDAN, MATI CITY, DAVAD ORIENTAL

VICINITY MAP SITE DEVELOPMENT PLAN GENERAL NOTES & SPECIFICATIONS

SHEET CONTENTS.

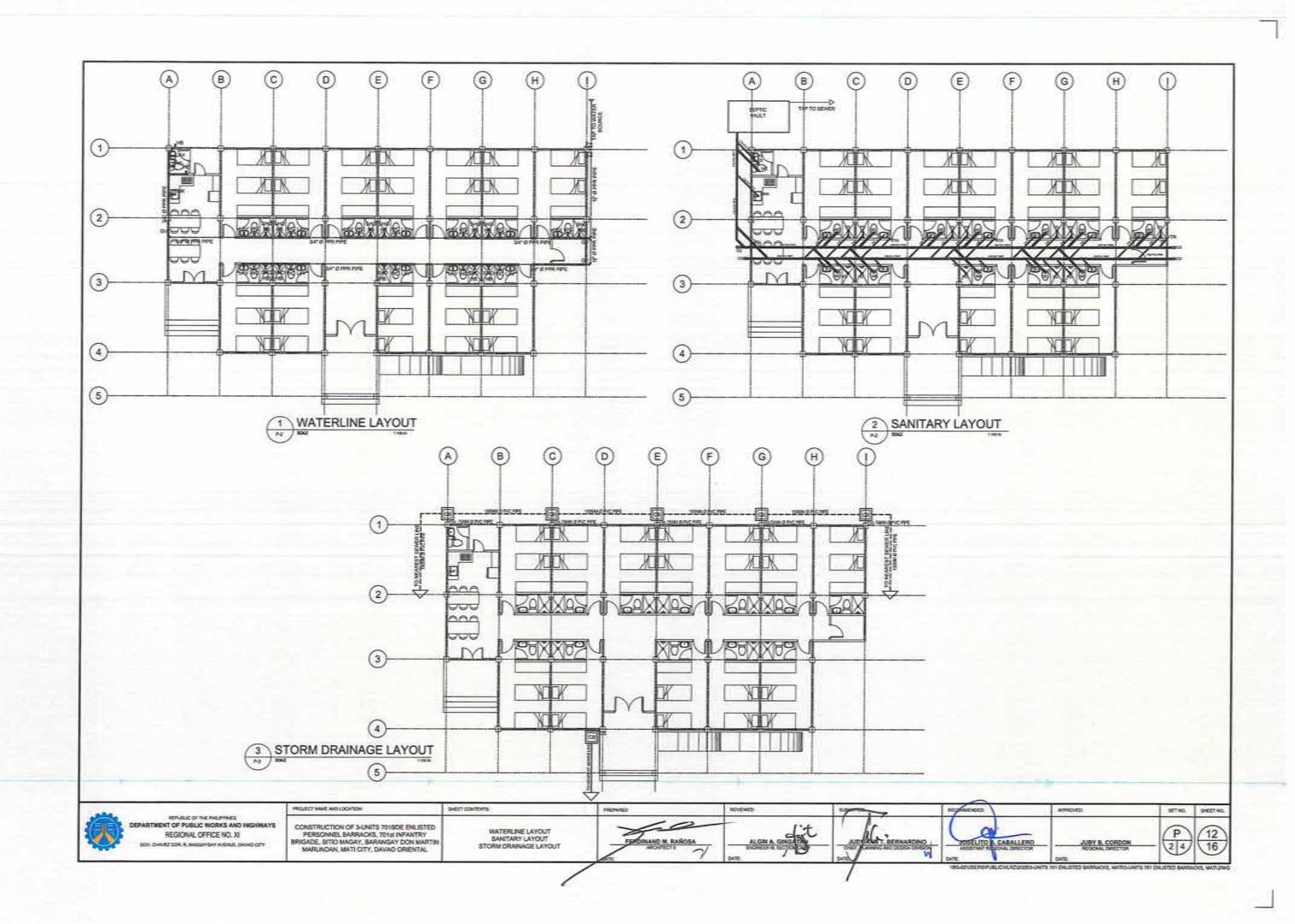


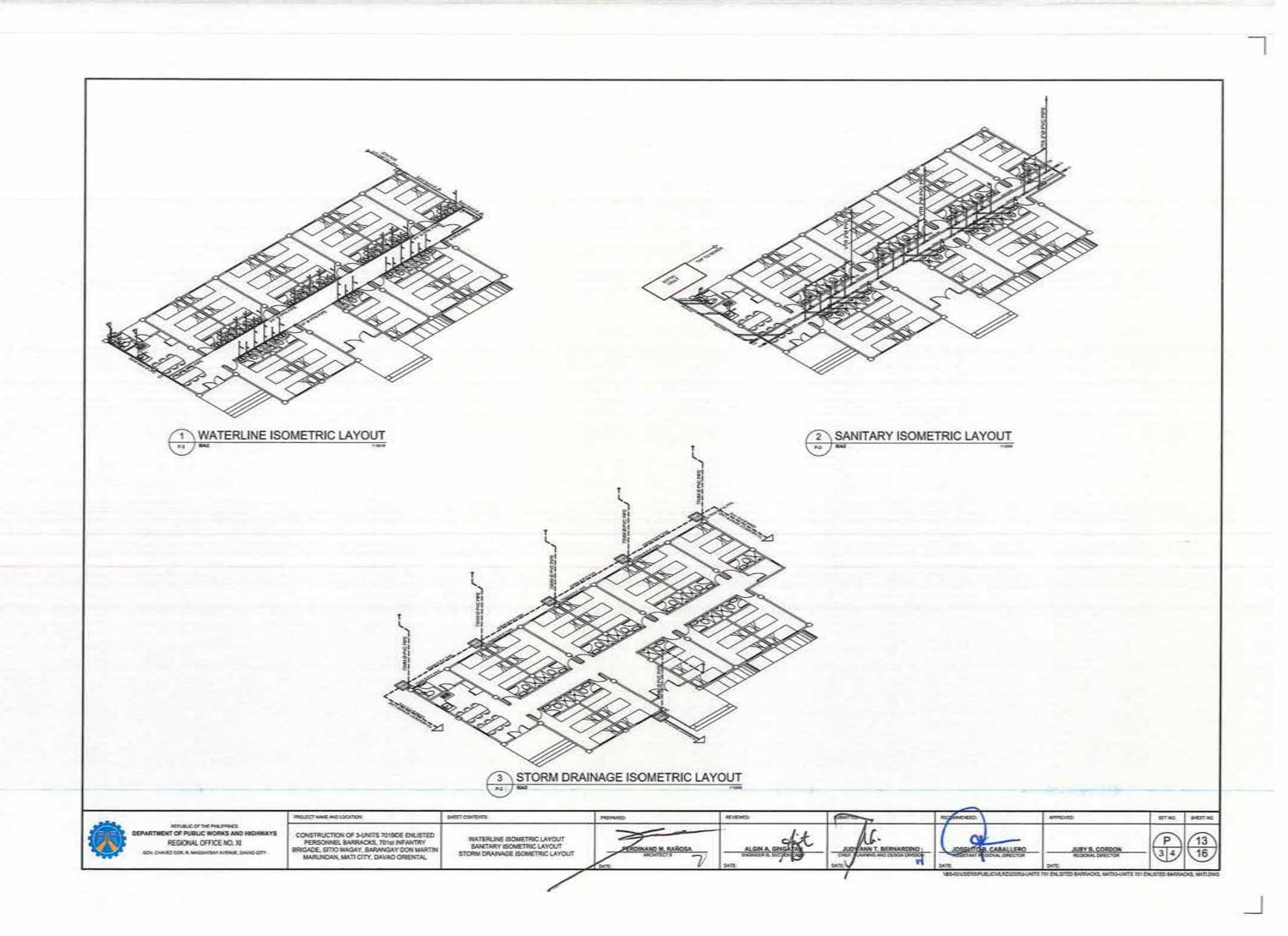


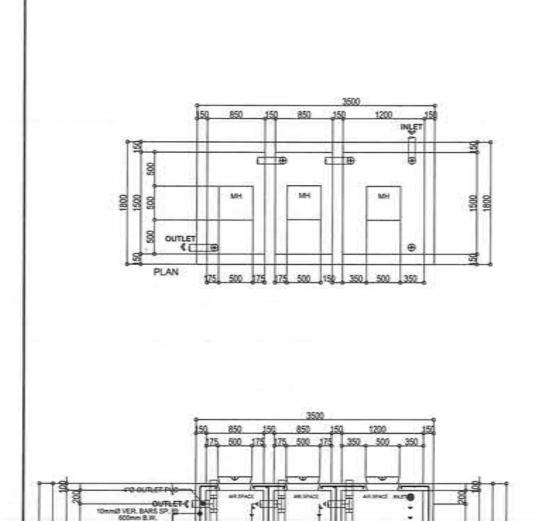
SET NO.

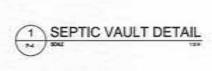
SHEET NO

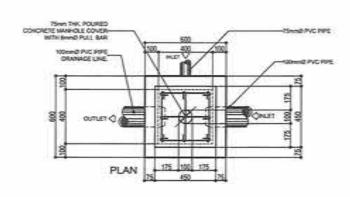
16

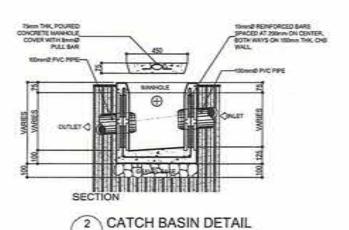


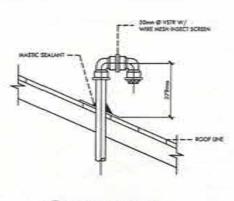




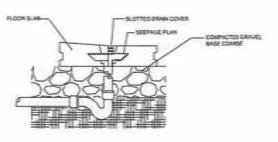




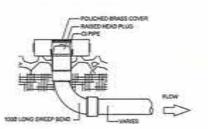




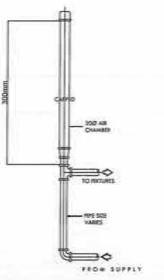




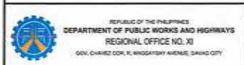
FLOOR DRAIN SECTION



5 CLEAN-OUT SECTION

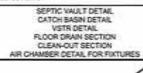


6 AIR CHAMBER DETAIL FOR FIXTURES



SECTION

Đ,	ONSTRUCTION OF 3-UNITS 701BOE ENLISTED
	PERSONNEL BARRACKS, TOTAL INFANTRY
BRI	GADE, SITIO MAGAY, BARANGAY DON MARTIN
	MARLINDAN, MATI CITY, DAVAD ORIENTAL





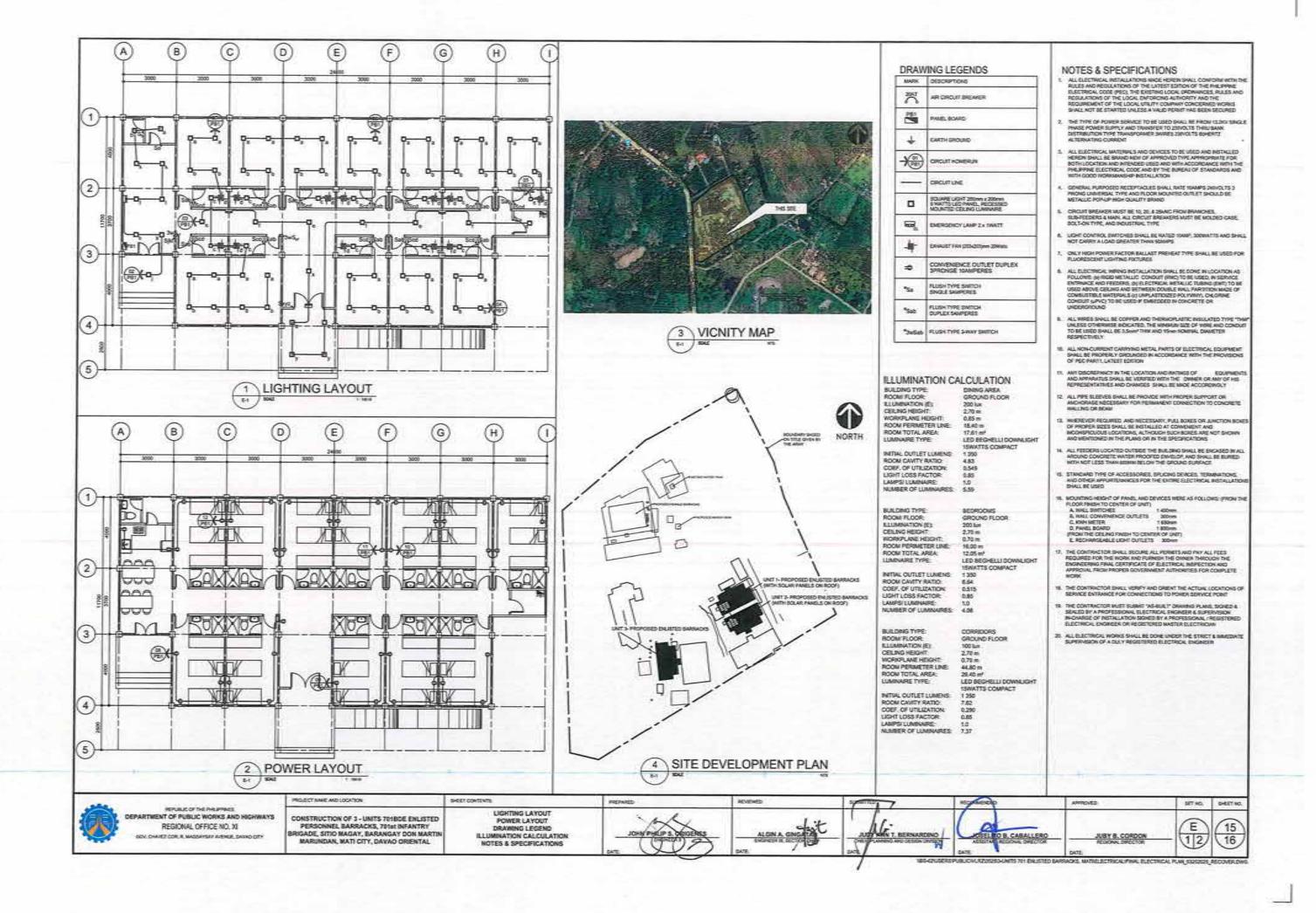






JUST B. CORDON SCHOOL SHEET NO. SHEE

"BS-COUSERS PUBLICIAL REGIONS AND STATES THE PARTIES SARRACKS, WATCH CAN'T S THE PALSTED BARRACKS, WATCH CON-



LOAD SCHEDULE (TYPICAL FOR UNIT 1, 2, & 3)

DESIGNATION: LIGHTING & POWER PANEL FEED FROM: MAN DISTRIBUTION PANEL LOCATION: MALE DORMITORY BUILDING						естесток эте	MA Bo	in Air-Ciro anches, Air	at Brasier,	Both-On Typ ions, Both-O	in Single Press, 240 lots Press Press (NC), CSUPE (P)		INV SINGLE PHASE NEWA-1	
PANEL	СКТ	DESCRIPTION	QTY	POWER	NO.	LT CURRENT	PROTECTION				CONDUCTORS	(and and		
					-		AT	AF	POLE	KAIC	CONDUCTORS	CONDUITS		
P81) P82) P83	01	SUB-FEEDER		10 590		45.54								
	82	LIGHTING LOADS	10	500	230	2.17	29	100	2	10	2 - 3.5mm* THHN Cu. + 1 - 3.5mm* THHN Cu.(G)		20mm@ uPVC PIPE	
	43	LIGHTING LOADS	15	750	230	3.26	20	100	2	10	2 - 3.5mm² THHN Cu. + 1 - 3.5mm² THHN Cu.(G)		20mm@ uPVC PIPE	
	64	LIGHTING LOADS	18	900	230	3,91	20	100	2	10	2 - 3.5mm* THHN Cu. + 1 - 3.5mm* THHN Cu.(G)		20mm@uPVCPIPE	
	05	LIGHTING LOADS	18	900	230	3.91	20	100	2	10	2 - 3.5mm* THHN Cu. + 1 - 3.5mm* THHN Cu.(G)		20mm@ uPVC PIPE	
	06	LX3HTNG-LDADS	18	900	230	3.91	20	100	2	10	2 - 3.5mm² THHN Cu. + 1 - 3.5mm² THHN Cu.(G)		20mm@ uPVC PIPE	
	07	LIGHTING LOADS	18	900	230	3.91	20	100	2	10	2 - 3.5mm² THHN Cu. + 1 - 3.5mm² THHN Cu.(6)		20mm@ uPVC PIPE	
	DEL	ALL PURPOSED LOADS	07	1 260	230	5,47	20	100	2	10	2 - 3.5mm² THHN Cu. + 1 - 3.5mm² THHN Cu./G)		20mm@ uPVC PIPE	
	09	ALL PURPOSED LOADS	09	1 620	230	7.04	20	100	2	10	2 - 3.5mm² THHN Cu. + 1 - 3.5mm² THHN Cu.(G)		20mm8 uPVC PIPE	
	10	ALL PURPOSED LOADS	67	1 260	230	5.47	20	100	2	10	2 - 3.5mm* THHN Cu. + 1 - 3.5mm* THHN Cu.(G)		20mm@uPVC PIPI	
	11	ALL PURPOSED LOADS	87	1 260	230	5.47	20	100	2	10	2 - 3.5mm* THHN Cu. + 1 - 3.5mm* THHN Cu.(G)		20mm3 uPVC PIPE	
	12	ALL PURPOSED LOADS	05	900	230	3.91	20	100	2	10	2 - 3.5mm THHN Cu. + 1 - 3.5mm	20mm@uPVC PIPE		

LOAD COMPUTATION

SUB-FEEDER CONDUCTOR & EQUIPMENT RATING TOTAL RULL LOAD OUR RENT

I + 10 590 + (200°0.8) + 57.55 Amperes

USE: 2 - 14.5mm² THW, Co. WINE + 1 - 14.5mm² THW, GROUND, Co. WINE INSIDE 1 - 25mm2, RMC PIPE MAXIMUM CURRENT RATING OF PROTECTION DEVICE

(WERSE TIME CRICUT BREAKER) USE: 1-48AT 106AF 240V 16 10AUC ACB

LOAD SUMMARY (FOR UNIT 1, 2, 8 3)

DESIGN FEED FI LOCATI	ROM:	LIGHTING & POWER PANEL MAIN DISTRIBUTION PANEL DORWITORY BUILDING	ROTE	CTRON SPECS:	Pareboard + Branches, Side-On Type, Comer Main, Single Phase Main: An-Oscull Branches, Ball-On Type, Single Phase, 240-bits Branches: An-Oscull Branches, Ball-On Type: Single Phase, 240-bit Branches: 250-branch (Maintens Ampach) 1						
PANEL	CKT	DESCRIPTION	OTY	POWER	VOLT	CURRENT	PROTECTION				
		Seating from	~"				AT	AF	POLE	MARC	
DP1	-81	PANEL LOADS (PB1)	01	10 590	230	46.04	66	100	2	10	
	62	PANEL LOADS (P82)	01	10 590	230	45.64	80	100	2	19	
	63	PANEL LOADS (PBS)	01	10 590	230	45.64	60	100	2	10	
	04	PUTURE (CADS	01	1 500	230	6.52					
		FEEDER		33 276		144.65					

LOAD ANALYSIS

A. LOAD CALCULATION

GENERAL LIGHTING & CONVENIENCE RECEPTACLE LOAD:

TYPE OF OCCUPANCY: DWELLING 615.51 m² x 24 Volt-Ampens per m² HALLS, CORRIDORS, OLOSETS, & STARWAYS # 14 779 VA

132,42 of a 4 Voll-Amperes per of = 530 W

ALL PURPOSED OUTLET LOAD: = 9 000 VA SUB-TOTAL # 24 309 VA

APPLICATION OF DEMAND FACTORS:

All Others @ 100% D.F.

= 24 309 VA

TOTAL NET COMPUTED LOAD = 25 809 VA

SERVICE ENTRANCE CONDUCTOR & EQUIPMENT RATING

TOTAL FULL LOAD CURRENT:

I = 25.608 + 230 + 112.21 Amperes

USE 2 - 38,0mm² THW, Cu, WIRE 1 - 14,0mm² THW, GROUND, Cu, WIRE INSIDE 1 - 40mm0, JPVC PPE MAXIMUM CURRENT RATING OF PROTECTION DEVICE

USE: 1 - 125AT 225AF 240V 14-10NAVC MCC8

B. FAULT CURRENT CALCULATION

ASSUME SONA 230Y 3.0%

PU value of utility source, pur Zs = 0.0005 pu PU for transformer, pc 2r = 0.03 pg PU value for feeder sines,

Fault at "a" (The fault current to be decred by breaker A comes only

a. Single Line Discom-Fault capacity - 100MVA 2s=0.0005pg \$



2=0-0105es

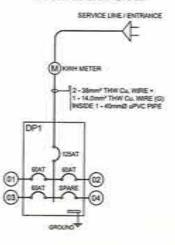
0.0005pu \$

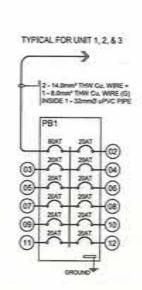
6. Fault Current at "6" les (ayre) = (1.0" 0.005)(50 000 200) Se (sym) = 7 127.56 Amperes RMS Say 10 000 Amperes RMS symmetrical Citral Strailer "A" should be rated not less than 16 000 ACC symmetrical

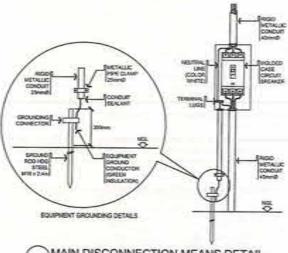
C. VOLTAGE DROP CALCULATION

FEEDER		COMPUTEDOR				IMPEDANCE		VOLTAGE	VOLTAGE	VOLTAGE	VOLTAGE	VOLTAGE
FROM	10	UNLUCIUS	CURRENT	GETANCE	PHASE	R	X	DROP	DROP TOTAL	DROP (%)	TOTAL	DROP EN
XAMER	DP1	2-38.5mm*	112.21 A	18.0 m	te .	0.150	0.045	2.07		0.90		227.93
DP1	P91	2-14,0mm²	57,55 A	12.0 m	16	0.490	0.063	2.24	431	0.97	1.67	225.89
P91	CX709-C0	2-15mm²	7.04 A	150 m	16	2.000	0.054	1,39	5.70	0.60	248	224.30

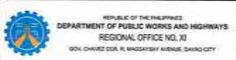
SINGLE LINE DIAGRAM







MAIN DISCONNECTION MEANS DETAIL



CONSTRUCTION OF 3 - UNITS 1918DE ENLISTED PERSONNEL BARRACKS, 101st INFANTRY BRIGADE, SITIO MAGAY, BARANGAY DON MARTIN MARUNDAN, MATI CITY, DAVAD ORIENTAL

SHEET CONTENTS. LOAD SCHEDULE LOAD SUMMARY LOAD ANALYSIS SINGLE LINE DIAGRAM MAIN DISCONNECTION MEANS DETAIL







E 16 22 16