REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGIONAL OFFICE X

MISAMIS OCCIDENTAL 1st DISTRICT ENGINEERING OFFICE

OROQUIETA CITY, MISAMIS OCCIDENTAL

C.Y. 2025 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR

CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, ALTRADE, ALORAN, MISAMIS OCCIDENTAL

GPS LOCATION: 8.412892° N
123.823° E

SUBMITTED:

NOLLY S. BOLANDO
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:

REY M. ROA
OIC-ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

CHARITO B. MADULA
DISTRICT ENGINEER
DATE:

PDS - MISOCC1ST : 2025

G. GENERAL DRAWING & SUMMARY OF QUANTITIES

CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING,
ALTRADE, ALORAN, MISAMIS OCCIDENTAL

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SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
PART A	FACILITIES FOR THE ENGINEER			
A.1.1(8)	PROVISION OF FIELD OFFICES FOR THE ENGINEER (RENTAL BASIS)	4.00	Month	
PART B	OTHER GENERAL REQUIREMENTS			
B.3 (1)	PERMITS AND CLEARANCE	1.00	Lump Sum	
B.5 (1)	PROJECT BILLBOARD/SIGNBOARD	1.00	Each	
B.7 (1)	OCCUPATIONAL SAFETY AND HEALTH	1.00	Lump Sum	
DIVISION I	CIVIL WORKS			
PART C	EARTHWORKS			
801(1)	REMOVAL OF STRUCTURES AND OBSTRUCTION	1.00	Lump Sum	
803(1)a	STRUCTURE EXCAVATION, COMMON SOIL	43.95	Cu.m.	
804(7)	EMBANKMENT FROM ROADWAY/ STRUCTURE EXCAVATION, COMMON SOIL	32.83	Cu.m.	
804(7)	GRAVEL FILL	5.98	Cu.m.	
PART D	REINFORCED CONCRETE			
900(1)c	STRUCTURAL CONCRETE, 3000 psi, CLASS A, 28 DAYS	2.29	Cu.m.	
902(1)d	STRUCTURAL CONCRETE, 4000 psi, CLASS A, 28 DAYS	23.99	Cu.m.	
902(1)a1	REINFORCING STEEL (DEFORMED), GRADE 40	5088.82	Kg.	
903(2)a1	FORMWORKS AND FALSEWORKS	132.82	Sq.m.	
PART E	FINISHING AND OTHER CIVIL WORKS			
1001(8)	SEWER LINE WORKS	1.00	Lump Sum	
1001(9)	STORM DRAINAGE AND DOWNSPOUT	1.00	Lump Sum	
1001(11)	SEPTIC VAULT/TANK, CONCRETE/CHB	1.00	Lump Sum	
1002(4)	PLUMBING FIXTURES	1.00	Lump Sum	
1003(1)e2	CEILING, METAL FRAME, PREPAINTED METAL	59.16	Sq.m.	
1004(2)	FINISHING HARDWARE	1.00	Lump Sum	
1007(1)b	ALUMINUM FRAMED GLASS DOOR, SWING TYPE	9.56	Sq.m.	
1008(1)c	ALUMINUM GLASS WINDOW, AWNING TYPE	1.38	Sq.m.	
1008(1)d	ALUMINUM GLASS WINDOW, FIXED TYPE	13.80	Sq.m.	
1010(1)	FRAMES (JAMBS, SILLS, HEAD, TRANSOMS AND MULLION)	7.00	Set	
1010(2)b	DOORS, WOOD PANEL	10.50	Sq.m.	
1013(2)b	FABRICATED METAL ROOFING ACCESSORY, GAUGE 26 (0.551 mm), FLASHING	32.80	L.m.	
1013(2)c	FABRICATED METAL ROOFING ACCESSORY, GAUGE 24 (0.701 mm), GUTTERS	16.80	L.m.	
1014(1)a2	PRE-PAINTED METAL SHEETS, ABOVE 0.427mm, CORRUGATED, LONG SPAN	214.00	Sq.m.	
1018(4)	SYNTHETIC GRANITE TILES	395.68	Sq.m.	
1019(2)c	WOOD TILE, WALLS, OTHER	21.60	Sq.m.	
1019(3)c	WOOD TILE, CEILING, OTHER	116.78	Sq.m.	
1027(1)	CEMENT PLASTER FINISH	314.48	Sq.m.	
1032(1)a	PAINTING WORKS, MASONRY/CONCRETE	718.67	Sq.m.	
1032(1)c	PAINTING WORKS, STEEL	718.67	Sq.m.	
1033(1)	METAL DECK PANEL	31.38	Sq.m.	
1039(1)	ALUMINUM CLADDING	73.95	Sq.m.	
1046(2)a1	CHB NON-LOAD BEARING (INCLUDING REINFORCING STEEL), 100mm THICK	66.94	Sq.m.	
1046(2)a2	CHB NON-LOAD BEARING (INCLUDING REINFORCING STEEL), 150mm THICK	90.30	Sq.m.	
1047(1)	METAL STRUCTURES	3146.04	Kg.	
1047(4)a	METAL STRUCTURAL ACCESSORIES, BOLTS AND RODS	40.00	Each	
1047(4)b	METAL STRUCTURAL ACCESSORIES, TURNBUCKLE	20.00	Each	
1047(5)b	METAL STRUCTURAL ACCESSORIES, SAGRODS	71.64	Kg.	
1047(5)c	METAL STRUCTURAL ACCESSORIES, CROSS BRACING	160.99	Kg.	
1047(5)d	METAL STRUCTURAL ACCESSORIES, STEEL PLATES	280.64	Kg.	
1047(8)a	STRUCTURAL STEEL, TRUSSES	1820.52	Kg.	
1047(8)b	STRUCTURAL STEEL, PURLINS	705.60	Kg.	
1051(1)a	RAILING	1.00	Lump Sum	
PART F	ELECTRICAL			
1100(10)	CONDUIT, BOXES & FITTINGS (CONDUIT WORKS/CONDUIT ROUGH-IN)	1.00	Lump Sum	
1101(33)	WIRES AND WIRING DEVICES	1.00	Lump Sum	
1102(1)	PANELBOARD WITH MAIN & BRANCH BREAKERS	1.00	Lump Sum	
1103(1)	LIGHTING FIXTURES	1.00	Lump Sum	
PART G	MECHANICAL			
1200(13)a	AIR CONDITIONING SYSTEM	1.00	Lump Sum	

SCOPE OF WORKS:

- REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- EXCAVATION FOR FOUNDATION (11 UNITS)
- EMBANKMENT FROM ROADWAY
- CONSTRUCTION OF SEPTIC TANK
- INSTALLATION OF SEWER LINE AND COLD WATER LINE
- CONSTRUCTION OF REINFORCED CONCRETE FOOTINGS AND WALL FOOTING
- CONSTRUCTION OF REINFORCED CONCRETE 11-UNIT COLUMNS, BEAM AND CANTILEVER BEAM
- CONSTRUCTION OF FIREWALL
- INSTALLATION OF TILES
- REPLACEMENT AND CONSTRUCTION OF TRUSSES AND ROOFING WORKS
- INSTALLATION OF ALUMINUM METAL CLADDING WITH FRAME ON BUILDING FACADE
- FINISHING HARDWARE
- WINDOW ACCESSORY
- CEMENT PLASTER FINISH AND PAINTING WORKS
- ELECTRICAL WORKS

NOTES: QUANTITIES SHALL BE VERIFIED DURING ACTUAL CONSTRUCTION

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ALORAN, MISAMIS OCCIDENTAL

SHEET CONTENTS:
SUMMARY OF QUANTITIES
SCOPE OF WORK

PREPARED:
DARBY J. TOLEDO
ARCHITECT II

REVIEWED:
HOFLAN S.PUTIS
ENGINEER II
DATE:

SUBMITTED:
NOLLY S. BOLANDO
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
REY M. ROA
OIC-ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
CHARITO B. MADULA
DISTRICT ENGINEER
DATE:

SET NO. G 01 | 03
SHEET NO. 01 | 55

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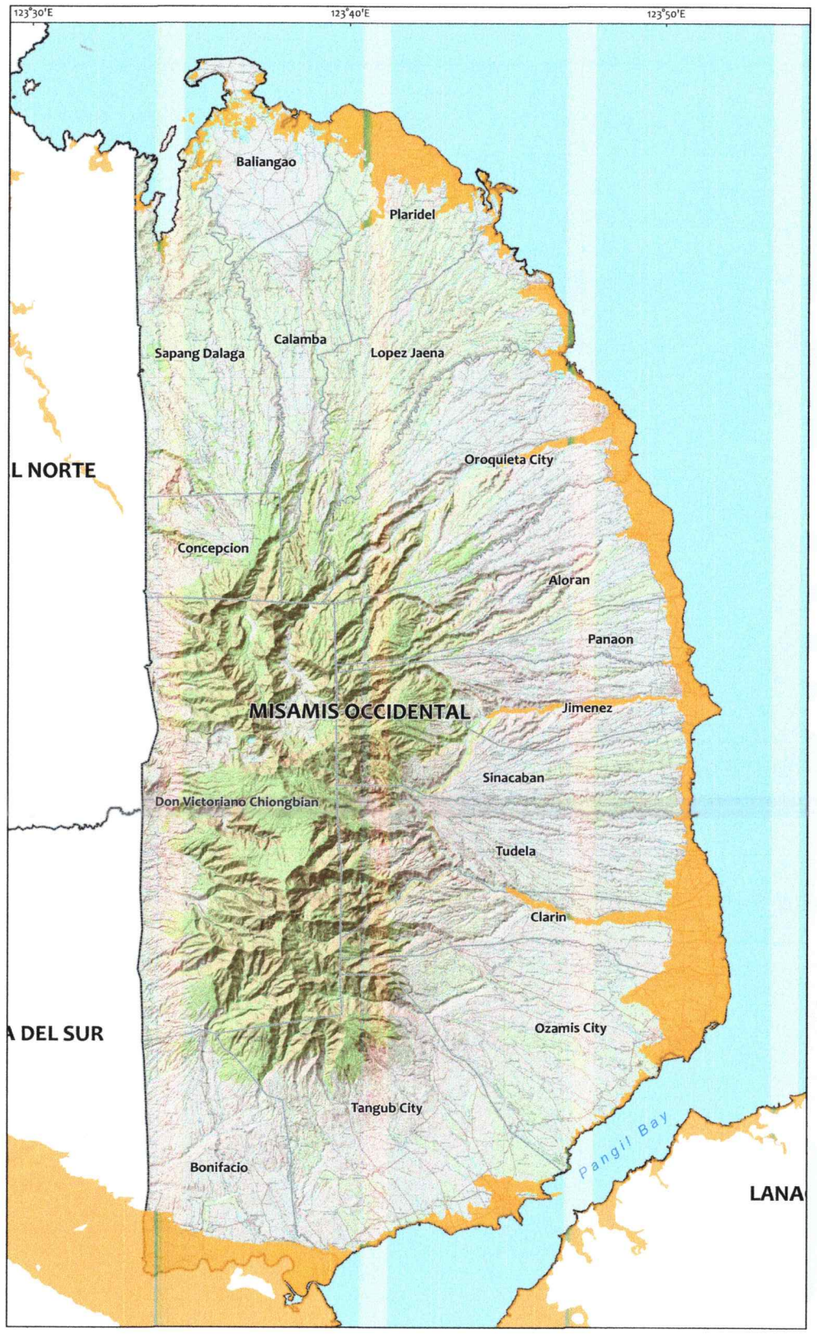


01 G-02 LIQUEFACTION MAP OF MISAMIS OCCIDENTAL
NOT TO SCALE

Legend

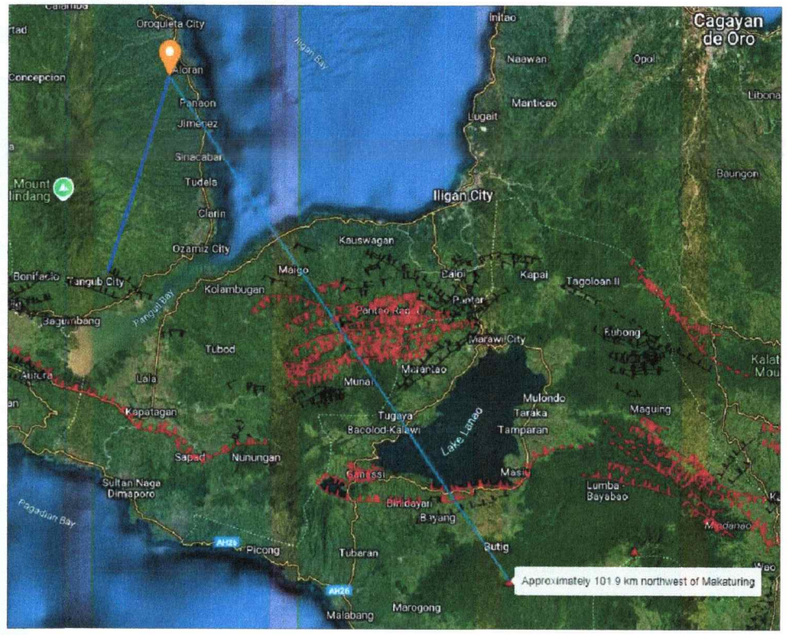
Liquefaction Susceptibility

- Prone
- Provincial boundary
- Municipal boundary
- Road / Highway
- Built-up area / settlement
- River / Stream

LEGEND:

SEISMIC HAZARDS ASSESSMENT

HAZARD	ASSESSMENT	EXPLANATION AND RECOMMENDATION
Ground Rupture	**Safe; Approximately 34 km north of the Tangub Fault**	Active faults are faults that have moved within the last 10,000 years. An active fault may show evidence or may have documented history of recent movements. Ground rupture is a displacement along an active fault trace that reaches the surface. Ground rupture hazard assessment is the distance to the nearest known active fault. The recommended buffer zone, or Zone of Avoidance, against ground rupture hazard is at least 5 meters on both sides of the active fault or from its zone of deformation.
Ground Shaking	**Prone**	All sites may be affected by ground shaking in the event of an earthquake and can be mitigated by following the provisions of the National Building code and the Structural code of the Philippines.
Liquefaction	**Safe**	Liquefaction is a phenomenon wherein the ground, especially near the river, lake and coasts, behaves like liquid similar to quicksand due to very strong shaking.
Earthquake-Induced Landslide	**Data are being updated**	Earthquake-induced landslides are the downward slope movement of rocks, solid and other debris commonly triggered by strong shaking.
Tsunami	**Safe**	A tsunami is a series of sea waves commonly generated by under-the-sea earthquakes.



02 G-02 ACTIVE FAULT MAP
NOT TO SCALE

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CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING, ALTRADE, ALORAN, MISAMIS OCCIDENTAL ALORAN, MISAMIS OCCIDENTAL	LIQUEFACTION MAP OF MISAMIS OCCIDENTAL ACTIVE FAULT MAP	**MAITA B. NAPARAN** ARCHITECT I PREPARED: **ALADIZA C. SAAVEDRA** ARCHITECT I	**DAISY J. TOLEDO** ARCHITECT II DATE:	**NOLLY S. BOLANDO** CHIEF, PLANNING AND DESIGN SECTION DATE:	**REY M. ROA** OIC-ASSISTANT DISTRICT ENGINEER DATE:	**CHARITO B. MADULA** DISTRICT ENGINEER DATE:	G 02 03	02 55

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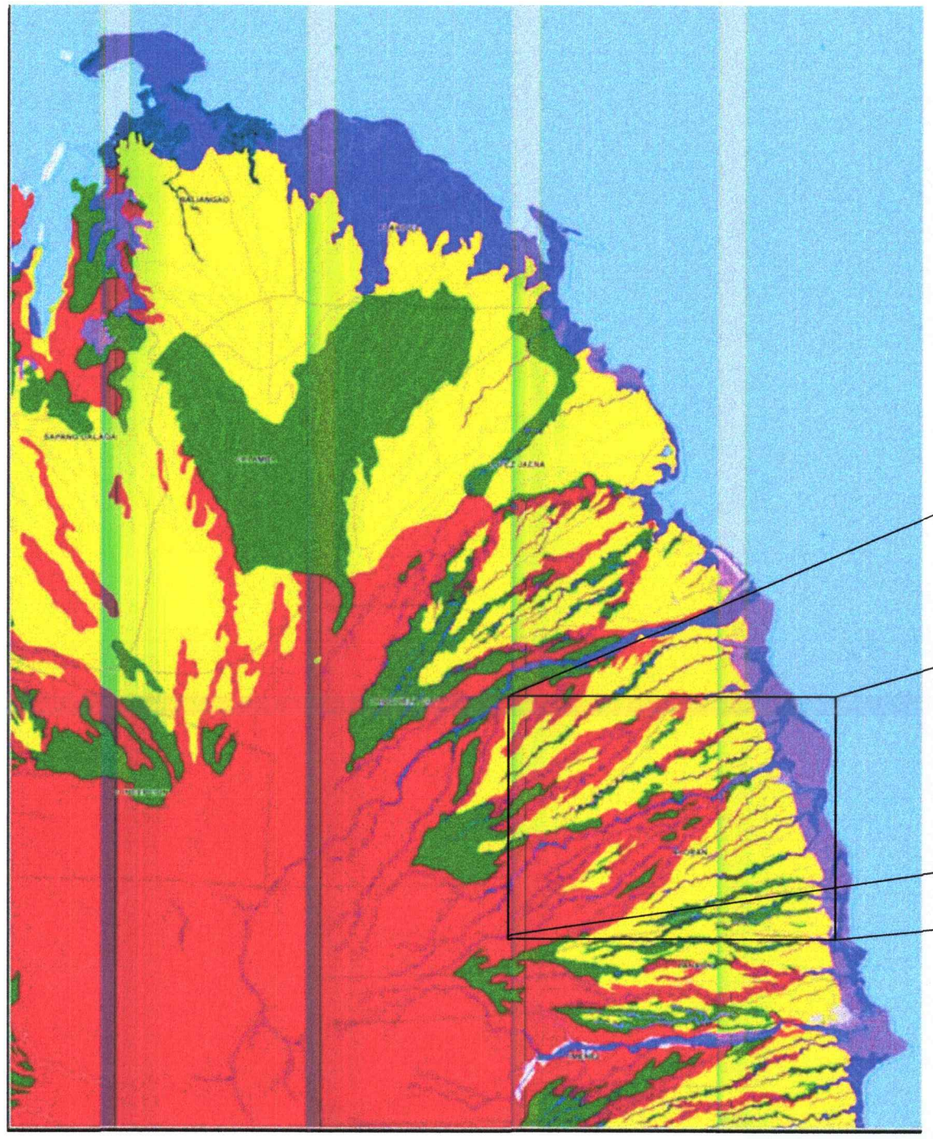
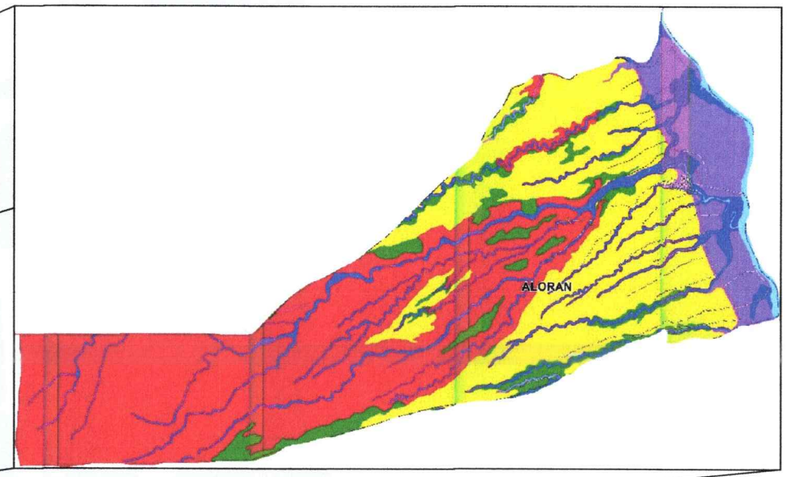
LEGEND:

- HIGH SUSCEPTIBILITY TO LANDSLIDE
- MODERATE SUSCEPTIBILITY TO LANDSLIDE
- LOW SUSCEPTIBILITY TO LANDSLIDE
- HIGH SUSCEPTIBILITY TO FLOODING
- LOW TO MODERATE SUSCEPTIBILITY TO FLOODING





01 G-03 MISAMIS OCCIDENTAL 1ST DEO FLOOD AND LANDSLIDE HAZARD MAP
NOT TO SCALE

02 G-03 MUNICIPALITY OF ALORAN FLOOD AND LANDSLIDE HAZARD MAP
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