Republic of the Philippines
Benguet State University
La Trinidad, 2601, Benguet Province
Tel/Fax No. 619-1839

BAGONG PILIPINAS

Bids and Awards Committee (BAC) - Infrastructure

INVITATION TO SUBMIT QUOTATION

August 12, 2026

Reference Number: **2026-1259**
Name of the Project: **Construction of a Rainwater Harvesting Facility for Buguias Administration Building and Buguias Cymbidium Building**
Project Location: BSU Buguias Campus, Loo, Buguias, Benguet
Approved Budget for the Contract (ABC): PhP1,500,000.00
Contract Duration: 45 calendar days
Source of Fund: 2026-IGF-Reserved Fund

I. Introduction:

A. The Benguet State University, through the Bids and Awards Committee (BAC), will undertake Small Value Procurement for the above stated project, thus, inviting registered contractors with valid license issued and classified by the Philippine Contractors Accreditation Board (PCAB). The project is the construction of a rainwater harvesting facility for the Buguias Administration Building and Buguias Cymbidium Building.

B. Prospective Bidders must have key personnel and equipment (owned/leased/under leased agreement) available for the prosecution of the project.

II. Scope of Work

I.	*General Requirements.* Occupational Safety and Health Program, Temporary Facility, Project billboard/ signboard, and Mobilization-Demobilization- Turnover
II.	*Site Works.* Cleaning-Grubbing-Cleaning-Staking, Excavation-Embankment and backfilling, Gravel Bedding (w/ base coarse tampering)
III.	*Structural Works.* Reinforced concrete works (3,500 psi @28 days), Reinforcing steel of reinforced concrete works, Structural steel works, and Formworks and falseworks
IV.	*Roofing Works.* Roofing Accessories
V.	*Architectural Finishings.* Water tank tower railings and steel ladder, Plastering, and Painting works
VI.	*Plumbing – Sanitary Works & Ancillary Items.* Water Supply & distribution Pipeline, Sanitary and wastewater pipeline, and Plumbing fixtures and accessories

III. Technical Personnel Required

a. 1- Site Architect/ Engineer
b. 1- Master Plumber
c. 1- Construction Foreman
d. 1 - Safety Officer- Part time

IV. **List of Equipment Required**– must be functional, in-good, and safe working condition with updated registration

a. 1 Dump Truck
b. 1 bagger Concrete Mixer
c. 2 Bar Benders
d. 1 Bar Cutter/ speed cutter
e. 1 lot Power tools
f. 2 Welding machines
g. 1 lot Scaffolding w/ clamps
h. 1 lot H-Frames w/accessories

V. **Eligibility and Technical Requirements** (must be updated)- All eligibility requirements will be used for procurement purposes only.

a. PhilGEPS Organization ID
b. Mayor's Permit
c. PCAB License
d. Income/Business Tax Returns
e. Notarized Omnibus Sworn Statement
f. List of Technical Personnel with their corresponding Curriculum Vitae
g. List of Equipment with proof of ownership/affidavit of availability

VI. Financial Documents

a. Accomplished and signed Bill of Quantities and Detailed Cost Estimates

VII. Procurement Activities:

a. Issuance of bid documents:
Interested bidders/ contractors can get a copy of the plans and designs, bill of quantities of the project starting **August 13, 2026** during office hours at the Procurement Management Office (PMO), 1st Floor, Administration Building, BSU, La Trinidad, Benguet

b. Deadline for Submission of Quotation
Quotation is to be submitted in a sealed envelope with the eligibility and technical requirements, and financial documents through *manual submission* on or before **August 20, 2026 at 12:00 noon** at the Procurement Management Office (PMO), 1st Floor, Administration Building, BSU, La Trinidad, Benguet. Quotation submitted after the deadline shall not be accepted by the BAC. The BAC shall record in the minutes of the meeting of the submission and opening of bids, the bidder's name, its representative, and the time the late bid was submitted.

c. Opening of Quotation
August 20, 2026 at 1:00 PM at the RDC Conference Hall, 2nd Floor, Administration Building, Benguet State University, Km. 5, La Trinidad, Benguet.

VIII. **Criteria for award**
Lowest Calculated Responsive Quotation (LCRQ).

IX. **For further information**, please refer to:

BAC Secretariat
Procurement Management Office
Benguet State University-La Trinidad Campus
1/F Administration Building
Tel No. 661-1839; 0950-603-2749
Email: procurement@bsu.edu.ph

X. You may visit the following websites:
For downloading of Bidding Documents: *https://bsu.edu.ph/request-for-quotation-la-trinidad-campus/*

JANET P. PABLO
Chairperson
Bids and Awards Committee

(Contractor's Letter Head with Logo)

BILL OF QUANTITIES

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET	Date:	
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: Reserved Fund	P-Duration: 45 CD
Project Brief: THE PROJECT IS A CONSTRUCTION OF A RAINWATER HARVESTING FACILITY AT BSU BUGUIAS CAMPUS.			

ITEM	SCOPE OF WORKS - DESCRIPTION	QTY.	UNIT	REL. WT.	AMOUNT	ITEM COST
I.	**GENERAL REQUIREMENTS**					
a.	Safety and Health Program	1	L.s.			-
b.	Temporary Facility	1	lot			-
c.	Project Billboard	1	lot			-
d.	Mobilization-Demobilization-Turnover	1	l.s.			-
II.	**SITE WORKS**					
a.	Cleaning-Grubbing-Cleaning-Staking	12.25	sq.m.			-
b.	Excavation-Embankment and Backfill	18	cu.m.			-
c.	Gravel Bedding (w/ base coarse tampering)	1.8	cu.m.			-
III.	**STRUCTURAL WORKS**					
a	Reinforced Concrete Works (3,500 psi @ 28 days)	6.12	cu.m.			-
b.	Reinforcing Steel of Reinforced Concrete Works	637.28	kgs.			-
c.	Structural Steel Works	94.47	sq.m.			-
d.	Formworks and Falseworks	38.32	sq.m.			-
IV.	**ROOFING WORKS**					
a.	Roofing Accessories	148	L.m.			-
V.	**ARCHITECTURAL FINISHINGS**					
a	Water tank tower Railings and steel ladder	6. 12	Sq.m.			
b.	Plastering	2.88	Sq.m.			-
c.	Painting Works	94.47	sq.m.			-
VI.	**PLUMBING – SANITARY WORKS & ANCILLARY ITEMS**					
a	Water Supply & Distribution Pipeline	25	l.m.			-
b	Sanitary and Wastewater Pipeline	210	L.m.			-
c	Plumbing Fixtures and Accessories	4	units			-
					0.00	

BREAKDOWN OF ESTIMATED EXPENDITURES

Description - Particulars			Relative Weight	Amount	Sub-total
Direct Cost	Materials	General Requirements			0.00
		Supply and Delivery			
		Testing of Materials			
	Labor	Direct Labor			0.00
	Equipment Rental	Rental			0.00
In- Direct Cost	OCM				0.00
	Contractor's Profit				0.00
	Tax				0.00
Total Project Cost (TPC)			**100%**	**0.00**	

MINIMUM TECHNICAL PERSONNEL REQUIRED FOR THE		
1	Site Architect	Must have atleast three (3) years' experience in construction implementation & supervision of buildings.
1	Site Engineer (civil)	
	Electrical Engineer	
	Master Electrician	
	Sanitary Engineer	
1	Master Plumber	
1	Construction Foreman	
1	Safety Officer – Part time	

MINIMUM EQUIPMENT REQUIRED FOR THE PROJECT					
1	Excavator, 8 cu.m. cap.	Must be functional, in-good, safe working condition and with updated registration.	2	Power tools	Must be functional, in-good, safe working condition and with updated registration.
1	Dump Truck		1	Scaffoldings w/ clams	
1	One-bagger Concrete Mixer		1	H-Frames w/ accessories	
1	Portalift, 10hp, 12mhgt, 7cuft.				
1	Plate Compactor				
1	Concrete Vibrator				
2	Bar Bender, mechanical				
1	Bar Cutter/ speed cutter				

Total Bid Cost *(In figures)* :

Total Bid Cost *(In words)* :

I hereby submit the foregoing; and that I understand the terms, conditions and the content.

Name of Bidder:

Name of Firm:

Date:

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: RESERVED FUND	P-Duration: 45 CD

I.	**GENERAL REQUIREMENTS**							
a.	Safety and Health Program	1	L.s.					
1	**Labor** /hour	qty	unit	daily rate	no. of days	amount		0.00
	Leadman					0.00		
	Skilled					0.00		
	Un-skilled					0.00		
	Part-time Safety Officer	1			5	0.00		
2	**Equipment** (ACEL Rate) /hour	qty	unit	rate	unit cost	amount		0.00
	minor tools (10% labor cost)				0	0		
3	**Materials & Description**	qty	unit	rate	unit cost	amount		0.00
	Safety Helmet	12	pc.			0.00		
	Safety Shoes	12	pair			0.00		
	Safety Gloves	12	pair			0.00		
	Reflectorized Vest	12	pc.			0.00		
	Rain Coats	12	pc.			0.00		
	Dust Mask	12	pc.			0.00		
	Eye Gogles	12	pc.			0.00		
	Body Harness and Lanyard	2	set			0.00		
	Rubber Boots	12	pair			0.00		
	Safety First Signage (2' x 3')	1	l.s.			0.00		
	Warning Signs (2' x 3')	1	L.s.			0.00		
	Caution Tape, 100ft	1	rolls			0.00		
	First Aid Medical Kits(Sanitizers,Alcohol,Themal Scanner,	1	l.s.			0.00		
	Perimeter fence or Approved Equivalent	2	rolls			0.00		
	Fire Extinguisher, 10 lbs. (refill)	1	set			0.00		
4	**Total Direct Cost** (1+2+3)				0.00			
5	**OCM** (overhead, contingencies & miscellaneous expense)				0.00			
6	**Contractor's Profit**				0.00			
7	**Tax** (vat)				0.00			
8	**Total In-Direct Cost** (5+6+7)				0.00			
9	**Total Unit Cost** (4+8)				Php	0.00		
b.	Temporary Facility	1	lot					
1	Labor /hour	qty	unit	daily rate	no. of days	amount		0.00
	Leadman	1			1	0.00		
	Skilled	1			1	0.00		
	Un-skilled	1			1	0.00		
2	**Equipment** (ACEL Rate) /hour	qty	unit	rate	unit cost	amount		0.00
		1						
	minor tools (10% labor cost)				0	0		
3	**Materials & Description**	qty	unit	rate	unit cost	amount		0.00
	assorted construction materials	1	lot			0.00		
	assorted cwn	5	kg.			0.00		
4	**Total Direct Cost** (1+2+3)				0.00			
5	**OCM** (overhead, contingencies & miscellaneous expense)				0.00			
6	**Contractor's Profit**				0.00			
7	**Tax** (vat)				0.00			
8	**Total In-Direct Cost** (5+6+7)				0.00			
9	**Total Unit Cost** (4+8)				Php	0.00		
c.	Project Billboard	1	lot					
1	Labor /hour	qty	unit	daily rate	no. of days	amount		0.00
	Leadman							
	Skilled	1			0.25	0.00		
	Un-skilled	2			0.25	0.00		
2	**Equipment** (ACEL Rate) /hour	qty	unit	rate	unit cost	amount		0.00
	minor tools (10% labor cost)				0.00	0.00		
3	**Materials & Description**	qty	unit	rate	unit cost	amount		0.00
	Printed Tarpulin (8ft x 8ft)	5.95	sq.m.			0.00		
	Good lumber	40.5	bd.ft			0.00		
	Assorted CWN	1	kg.			0.00		

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: RESERVED FUND	P-Duration: 45 CD

4	**Total Direct Cost** (1+2+3)					0.00		
5	**OCM** (overhead, contingencies & miscellaneous expense)					0.00		
6	**Contractor's Profit**					0.00		
7	**Tax** (vat)					0.00		
8	**Total In-Direct Cost** (5+6+7)					0.00		
9	**Total Unit Cost** (4+8)					Php	0.00	
d.	Mobilization-Demobilization-Turnover		1	l.s.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			1	0.00	
	Skilled		1			1	0.00	
	Un-skilled		1			1	0.00	
2	Equipment (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	Truck (2-5 MT)		1				0.00	
	minor tools (10% labor cost)					0	0	
3	Materials & Description		qty	unit	rate	unit cost	amount	
4	**Total Direct Cost** (1+2+3)					0.00		
5	**OCM** (overhead, contingencies & miscellaneous expense)					0.00		
6	**Contractor's Profit**					0.00		
7	**Tax** (vat)					0.00		
8	**Total In-Direct Cost** (5+6+7)					0.00		
9	**Total Unit Cost** (4+8)					Php	0.00	
II.	**SITE WORKS**							
a.	Cleaning-Grubbing-Cleaning-Staking		12.25	sq.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			1	0.00	
	Skilled		1			1	0.00	
	Un-skilled		2			1	0.00	
2	Equipment (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0.00	0.00	
3	Materials & Description		qty	unit	rate	unit cost	amount	
4	**Total Direct Cost** (1+2+3)					0.00		
5	**OCM** (overhead, contingencies & miscellaneous expense)					0.00		
6	**Contractor's Profit**					0.00		
7	**Tax** (vat)					0.00		
8	**Total In-Direct Cost** (5+6+7)					0.00		
9	**Total Unit Cost** (4+8)					Php	0.00	
b.	Excavation-Embankment and Backfill		18	cu.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			1	0.00	
	Skilled		1			1	0.00	
	Un-skilled		1			1	0.00	
2	Equipment (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	back hoe (.80 sq.m.)		1			/hr	0.00	
	minor tools (10% labor cost)					0	0	
3	Materials & Description		qty	unit	rate	unit cost	amount	
4	**Total Direct Cost** (1+2+3)					0.00		
5	**OCM** (overhead, contingencies & miscellaneous expense)					0.00		
6	**Contractor's Profit**					0.00		
7	**Tax** (vat)					0.00		
8	**Total In-Direct Cost** (5+6+7)					0.00		
9	**Total Unit Cost** (4+8)					Php	0.00	
c.	Gravel Bedding (w/ base coarse tampering)		1.8	cu.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			0.5	0.00	
	Skilled		1			0.5	0.00	
	Un-skilled		1			0.5	0.00	
2	Equipment (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET	Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: RESERVED FUND	P-Duration: 45 CD

3	**Materials & Description**	qty	unit	rate	unit cost	amount	-
	gravel bedding (100 mm thick compacted)	1.8	cu.m.			-	
4	**Total Direct Cost** (1+2+3)				0.00		
5	**OCM** (overhead, contingencies & miscellaneous expense)				0.00		
6	**Contractor's Profit**				0.00		
7	**Tax** (vat)				0.00		
8	**Total In-Direct Cost** (5+6+7)				0.00		
9	**Total Unit Cost** (4+8)				Php	0.00	
III.	**STRUCTURAL WORKS**						
a	Reinforced Concrete Works (3,500 psi @ 28 days)	6.12	cu.m.				
1	Labor /hour		unit	daily rate	no. of days	amount	0.00
	Leadman	1			2	0.00	
	Skilled	2			2	0.00	
	Un-skilled	4			2	0.00	
2	Equipment (ACEL Rate) /hour	qty	unit	rate	unit cost	amount	0.00
	one-bagger mixer	1				0.00	
	Minor Tools (10% of Labor)					0.00	
3	**Materials & Description**	qty	unit	rate	unit cost	amount	0.00
	cement	68	bag			0.00	
	sand	3.1	cu.m.			0.00	
	gravel	6.1	cu.m.			0.00	
4	**Total Direct Cost** (1+2+3)				-		
5	**OCM** (overhead, contingencies & miscellaneous expense)				-		
6	**Contractor's Profit**				-		
7	**Tax** (vat)				-		
8	**Total In-Direct Cost** (5+6+7)				-		
9	**Total Unit Cost** (4+8)				Php	0.00	
b.	Reinforcing Steel of Reinforced Concrete Works	637.28	kgs.				
1	Labor /hour	qty	unit	daily rate	no. of days	amount	0.00
	Leadman	1			3	0.00	
	Skilled	2			3	0.00	
	Un-skilled	6			3	0.00	
2	Equipment (ACEL Rate) /hour	qty	unit	rate	unit cost	amount	0.00
	Welding Machine	1				0.00	
	Steel Cutter	1				0.00	
	Chain Block	1				0.00	
	Minor Tools (10% of Labor)					0.00	
3	**Materials & Description**	qty	unit	rate	unit cost	amount	0.00
	16mm dia RSB, grade 40	518.88	kgs.			0.00	
	10mm dia, RSB grade 40	118.4	kgs.			0.00	
	#16 Galvanized Iron Wire	24	kgs.			0.00	
	Consumables (cutting disks, etc.)	1	l.s.			0.00	
4	**Total Direct Cost** (1+2+3)				-		
5	**OCM** (overhead, contingencies & miscellaneous expense)				-		
6	**Contractor's Profit**				-		
7	**Tax** (vat)				-		
8	**Total In-Direct Cost** (5+6+7)				-		
9	**Total Unit Cost** (4+8)				Php	0.00	
c.	Structural Steel Works	94.47	sq.m.				
1	Labor /hour	qty	unit	daily rate	no. of days	amount	0.00
	Leadman	1			3	0.00	
	Skilled	2			3	0.00	
	Un-skilled	4			3	0.00	
2	Equipment (ACEL Rate) /hour	qty	unit	rate	unit cost	amount	0.00
	Welding Machine	2				0.00	
	Steel Cutter	2				0.00	
	Chain Block	2				0.00	
	Minor Tools (10% of Labor)					0.00	

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: RESERVED FUND	P-Duration: 45 CD

3	**Materials & Description**	qty	unit	rate	unit cost	amount		0.00
	6m I-beam wide flange WF 200 x 200 x 8 x12	9	pcs.			-		
	6m C6 x 10.5 c-channel bar	6	pcs.			-		
	20mm dia. x 300mm long bent anchor bolts with washer and nuts (steel base plate)	48	set			-		
	300mm x 300mm x 25mm thick steel base plate	8	pcs.			-		
	10mm thick fabricated steel gusset plate (cross- bracing on shorter sides-bolted)	16	pcs.			-		
	10mm thick fabricated steel gusset plate (cross-bracing on longer side) fully weld	71	pcs.			-		
	M20 (20mm diameter ASTM F3125 Grade A325 Heavy Hex Structural Bolts with matching A563 DH Heavy Hex Nuts and F436 hardened washers) - for removable joints/ bolted joints	40	pcs.			-		
	10mm thick fabricated stiffener plate	32	pcs.			-		
	pre-cut 4mm thick steel plate (1.2m x 2.44m)	5	pcs.			-		
	2" x 1/4" thick angle bar	34	pcs.			-		
	welding rod	75	kg.			-		
	Consumables (5% of material cost)	1	l.s.			-		
4	**Total Direct Cost** (1+2+3)				-			
5	**OCM** (overhead, contingencies & miscellaneous expense)				-			
6	**Contractor's Profit**				-			
7	**Tax** (vat)				-			
8	**Total In-Direct Cost** (5+6+7)				-			
9	**Total Unit Cost** (4+8)				Php	0.00		
d.	Formworks and Falseworks	38.32	sq.m.					
1	**Labor** /hour	qty	unit		daily rate	no. of days	amount	0.00
	Leadman	1				1	0.00	
	Skilled	2				1	0.00	
	Un-skilled	6				1	0.00	
2	**Equipment** (ACEL Rate) /hour	qty	unit		rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	
3	**Materials & Description**	qty	unit		rate	unit cost	amount	0.00
	19mm x 1.2m x 2.4m Phenolic Board (3 uses)	6	pcs.				-	
	Good Lumber (3 uses)	162	bd. Ft.				-	
	Assorted CWN	25	kg.				-	
	Consumables (5% of material cost)	1	lot				-	
4	**Total Direct Cost** (1+2+3)					-		
5	**OCM** (overhead, contingencies & miscellaneous expense)					-		
6	**Contractor's Profit**					-		
7	**Tax** (vat)					-		
8	**Total In-Direct Cost** (5+6+7)					-		
9	**Total Unit Cost** (4+8)					Php	0.00	
IV.	**ROOFING WORKS**							
a.	*Roofing Accessories*	148	L.m.					
1	**Labor** /hour	qty	unit		daily rate	no. of days	amount	0.00
	Leadman	1				1	0.00	
	Skilled	2				1	0.00	
	Un-skilled	2				1	0.00	
2	**Equipment** (ACEL Rate) /hour	qty	unit		rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	
3	**Materials & Description**	qty	unit		rate	unit cost	amount	0.00
	.5 mm thick GA 24 heavy duty pre-painted box type gutter	148	l.m.				-	
	6" Premium Grade 304 Stainless Steel mesh leaf gutter with 0.5 mm to 1.5 mm mesh hole (admin. Building roof)	148	l.m.				-	
	16 " Premium Grade 304 Stainless Steel mesh leaf gutter with 0.5 mm to 1.5 mm mesh hole (cymbidium concrete gutter)	95	l.m.				-	
	gutter screws and fasteners	1	lot				-	
	sealant	5	liter				-	
	Consumables (5% of material cost)	1	l.s.				-	

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: Reserved Fund	P-Duration: 45 CD

4	**Total Direct Cost** (1+2+3)					-		
5	**OCM** (overhead, contingencies & miscellaneous expense)					-		
6	**Contractor's Profit**					-		
7	**Tax** (vat)					-		
8	**Total In-Direct Cost** (5+6+7)					-		
9	**Total Unit Cost** (4+8)					Php	0.00	
V.	**ARCHITECTURAL FINISHINGS**							
a	Water tank tower Railings and steel ladder		6. 12	Sq.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			2	0.00	
	Skilled		2			2	0.00	
	Un-skilled		4			2	0.00	
2	**Equipment** (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	
3	**Materials & Description**		qty	unit	rate	unit cost	amount	0.00
	16mm dia. Plain Round bars		25	pcs.			-	
	6m x 1" diameter g.i. pipe sched-40		8	pcs.			-	
	welding rod		25	kgs.			-	
	Consumables (5% of material cost)		1	l.s.			-	
4	**Total Direct Cost** (1+2+3)					-		
5	**OCM** (overhead, contingencies & miscellaneous expense)					-		
6	**Contractor's Profit**					-		
7	**Tax** (vat)					-		
8	**Total In-Direct Cost** (5+6+7)					-		
9	**Total Unit Cost** (4+8)					Php	0.00	
b.	Plastering		2.88	Sq.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			1.5	0.00	
	Skilled		1			1.5	0.00	
	Un-skilled		4			1.5	0.00	
2	**Equipment** (ACEL Rate) /hour		qty	unit	rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	
3	**Materials & Description**		qty	unit	rate	unit cost	amount	0.00
	Cement		0.73	bag/s			-	
	Sand		0.0062	cu.m.			-	
	Consumables (5% of material cost)		1	l.s.			-	
4	**Total Direct Cost** (1+2+3)					-		
5	**OCM** (overhead, contingencies & miscellaneous expense)					-		
6	**Contractor's Profit**					-		
7	**Tax** (vat)					-		
8	**Total In-Direct Cost** (5+6+7)					-		
9	**Total Unit Cost** (4+8)					Php	0.00	
c.	Painting Works		94.47	Sq.m.				
1	Labor /hour		qty	unit	daily rate	no. of days	amount	0.00
	Leadman		1			3	0.00	
	Skilled		2			3	0.00	
	Un-skilled		4			3	0.00	
2	**Equipment** (ACEL Rate) /hour			unit	rate	unit cost	amount	0.00
	minor tools (10% labor cost)					-	-	
3	**Materials & Description**		qty	unit	rate	unit cost	amount	0.00
	Pedestal and Concrete gutter							
	Concrete Neutralizer		2	liters			-	
	Acrylic Concrete Primer and Sealer		2	liters			-	
	Skim Coat or Approved Equivalent		2	kg.			-	
	Megacryl Latex - Semi-gloss		2	liters			-	
	Acrylic-Based Elastomeric Coating (water proofing for concrete		5	gals.			-	
	Steel Works							
	Epoxy Red Oxide Primer		7	gals.			-	
	Polyurethane (PU) Topcoat Paint		9	gal.			-	
	Consumables (5% of material cost)		1	l.s.			-	
4	**Total Direct Cost** (1+2+3)					-		
5	**OCM** (overhead, contingencies & miscellaneous expense)					-		

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent -- End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: Reserved Fund	P-Duration: 45 CD

6	**Contractor's Profit**	-		
7	**Tax (vat)**	-		
8	**Total In-Direct Cost (5+6+7)**	-		
9	**Total Unit Cost (4+8)**	**Php**	**0.00**	

VI.	**PLUMBING – SANITARY WORKS & ANCILLARY ITEMS**							
a	Water Supply & Distribution Pipeline	**25**	l.m.					
1	**Labor** /hour	qty	unit		daily rate	no. of days	amount	0.00
	Leadman	1				4	0.00	
	Skilled	2				4	0.00	
	Un-skilled	4				4	0.00	
2	**Equipment** (ACEL Rate) /hour	qty	unit		rate	unit cost	amount	0.00
	minor tools (10% labor cost)					0	0	
3	**Materials & Description**	qty	unit		rate	unit cost	amount	0.00
	25mm Dia. PPR-C Pipes- PN 20 (3 m length)	25	l.m				-	
	Solvent Cement	1	liters				-	
	Assorted PPR Pipe Fittings of various Diameter	1	lot				-	
	Fasteners and brackets	1	lot				-	
	Consumables (Teflon tape, etc...)	1	l.s.				-	
4	**Total Direct Cost (1+2+3)**					-		
5	**OCM (overhead, contingencies & miscellaneous expense)**					-		
6	**Contractor's Profit**					-		
7	**Tax (vat)**					-		
8	**Total In-Direct Cost (5+6+7)**					-		
9	**Total Unit Cost (4+8)**					**Php**	**0.00**	
b	Sanitary and Wastewater Pipeline	**210**	L.m.					
1	**Labor** /hour	qty	unit		daily rate	no. of days	amount	0.00
	Leadman	1				4	0.00	
	Skilled	2				4	0.00	
	Un-skilled	6				4	0.00	
2	**Equipment** (ACEL Rate) /hour	qty	unit		rate	unit cost	amount	0.00
	minor tools (10% labor cost)					-	-	
3	**Materials & Description**	qty	unit		rate	unit cost	amount	0.00
	75mm Dia. x 3m PVC Pipe-s1000	18	pcs.				-	
	110mm Dia. x 3m PVC Pipe-s1000	70	pcs.				-	
	Assorted Fittings and brackets	1	l.s.				-	
	Solvent Cement	4	liters				-	
	Consumables	1	l.s.				-	

(Contractor's Letter Head with Logo)

DETAILED UNIT PRICE ANALYSIS- DUPA

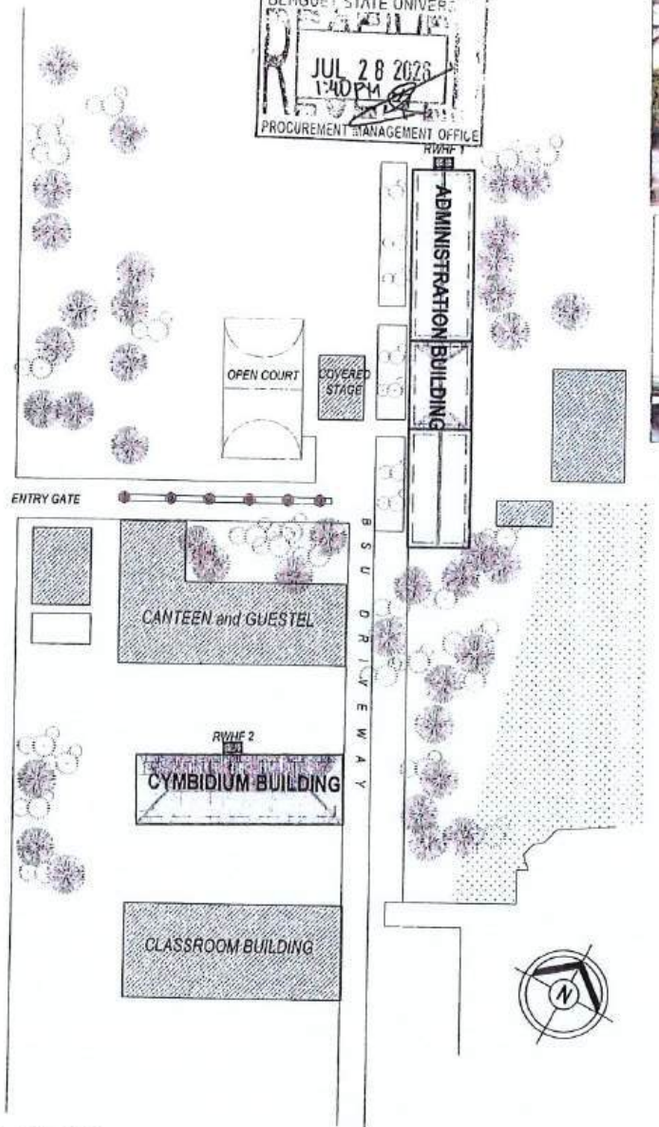
Project Title: CONSTRUCTION OF RAINWATER HARVESTING FACILITY FOR THE BUGUIAS ADMINISTRATION BUILDING AND BUGUIAS CYMBIDIUM BUILDING	Location: BSU BUGUIAS CAMPUS, LOO, BUGUIAS, BENGUET		Date:
Proponent – End-user: LEILA P. BULOGUEY	ABC: 1,500,000.00	Fund Source: Reserved Fund	P-Duration: 45 CD

4	**Total Direct Cost (1+2+3)**						-		
5	**OCM** (overhead, contingencies & miscellaneous expense)						-		
6	**Contractor's Profit**						-		
7	**Tax** (vat)						-		
8	**Total In-Direct Cost** (5+6+7)						-		
9	**Total Unit Cost** (4+8)						Php	0.00	
c	Plumbing Fixtures and Accessories			4	units				
1	Labor		/hour		unit	daily rate	no. of days	amount	0.00
			Leadman	1			3	0.00	
			Skilled	2			3	0.00	
			Un-skilled	6			3	0.00	
2	Equipment (ACEL Rate)		/hour	qty	unit	rate	unit cost	amount	0.00
			minor tools (10% labor cost)				-	0	
3	**Materials & Description**			qty	unit	rate	unit cost	amount	0.00
	1500L capacity premium grade rotationally molded Polyethylene			4	units			-	
	Gate Valve			2	sets			-	
	Drain valve			2	pcs.			-	
	Consumables (Teflon tape, etc...)			1	l.s.			-	
4	**Total Direct Cost** (1+2+3)						-		
5	**OCM** (overhead, contingencies & miscellaneous expense)						-		
6	**Contractor's Profit**						-		
7	**Tax** (vat)						-		
8	**Total In-Direct Cost** (5+6+7)						-		
9	**Total Unit Cost** (4+8)						Php	0.00	
	TOTAL PROJECT COST ESTIMATE						Php		0.00

Prepared by:

Name of Contractor/ Bidder)

BENGUET STATE UNIVERSITY
JUL 28 2026
1:40 PM
PROCUREMENT MANAGEMENT OFFICE



A 02/03 SITE DEVELOPMENT PLAN
SCALE 1:1000 MTS.

A 01/03 PERSPECTIVES
SCALE N.T.S.

SITE

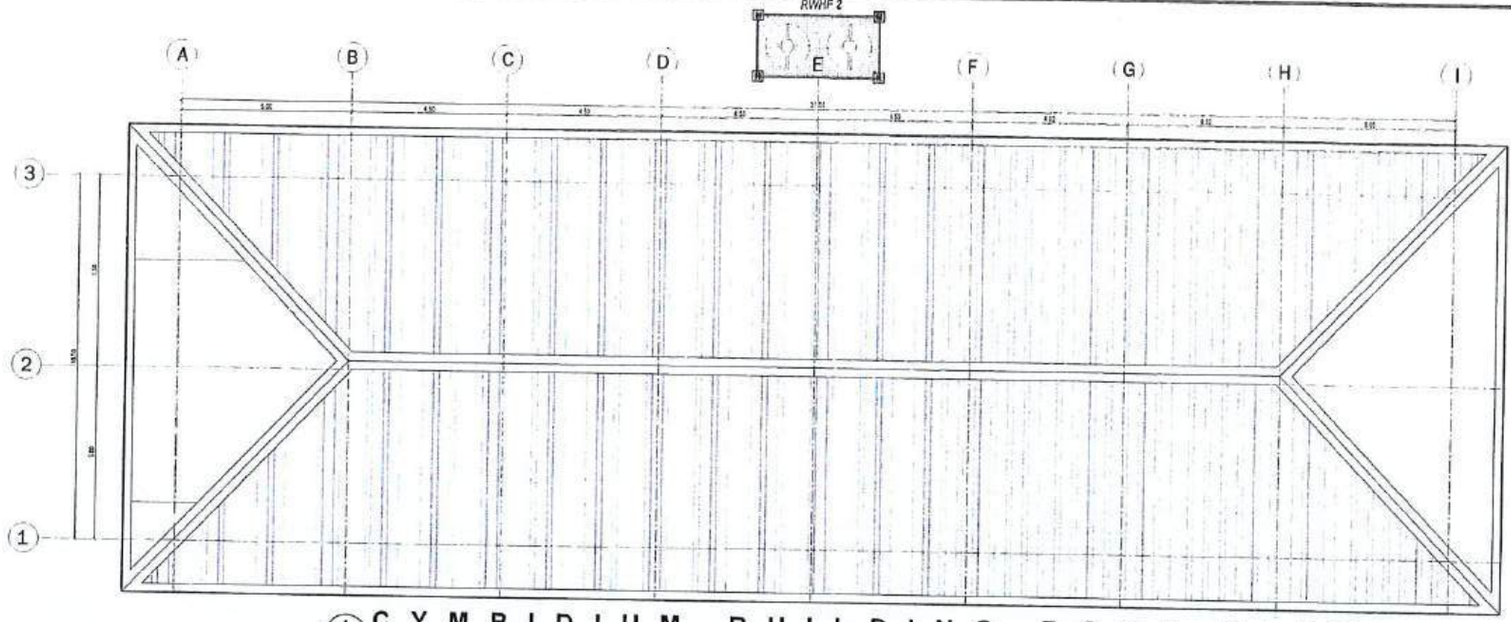
A 03/03 VICINITY MAP
SCALE N.T.S.

TABLE OF CONTENTS

Republic of the Philippines
Department of Public Works and Highways
TANGGAPAN NG PINUNONG PANGGUSALI
(OFFICE OF THE BUILDING OFFICIAL)
LA TRINIDAD, BENGUET 2601

LAND USE & ZONING
LINE & GRADE
ARCHITECTURAL
STRUCTURAL
ELECTRICAL
SANITARY
MECHANICAL
FIRE MARSHAL
OTHERS

ARCH. HAZELINE NITIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED 01-03-2026 PLAGE LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LGO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-1 01-12



A/2/2 SCALE

CYMBIDIUM BUILDING ROOF PLAN

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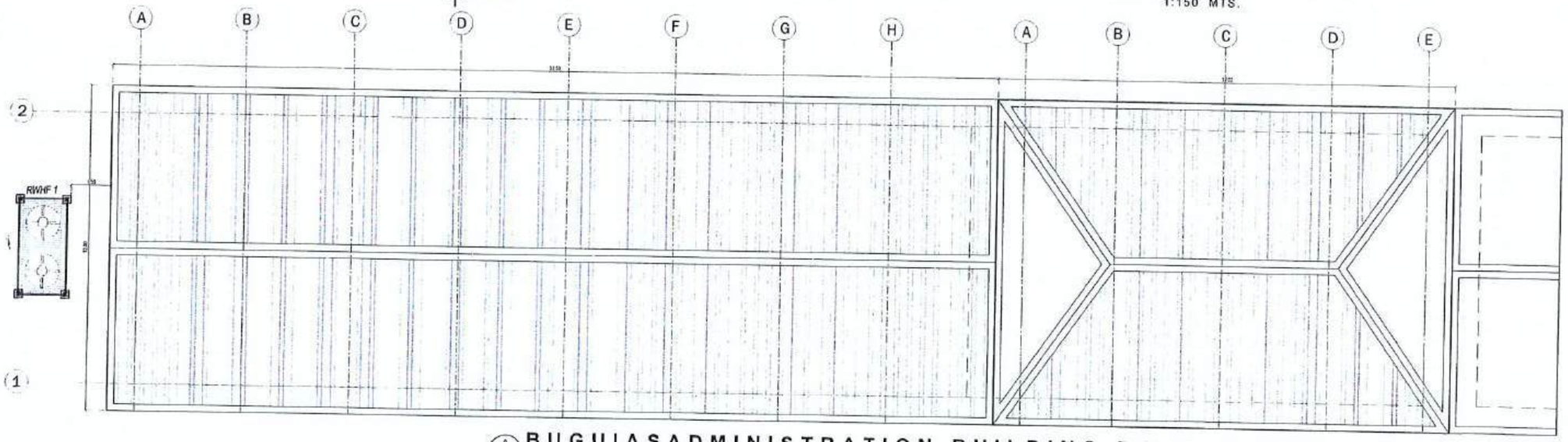
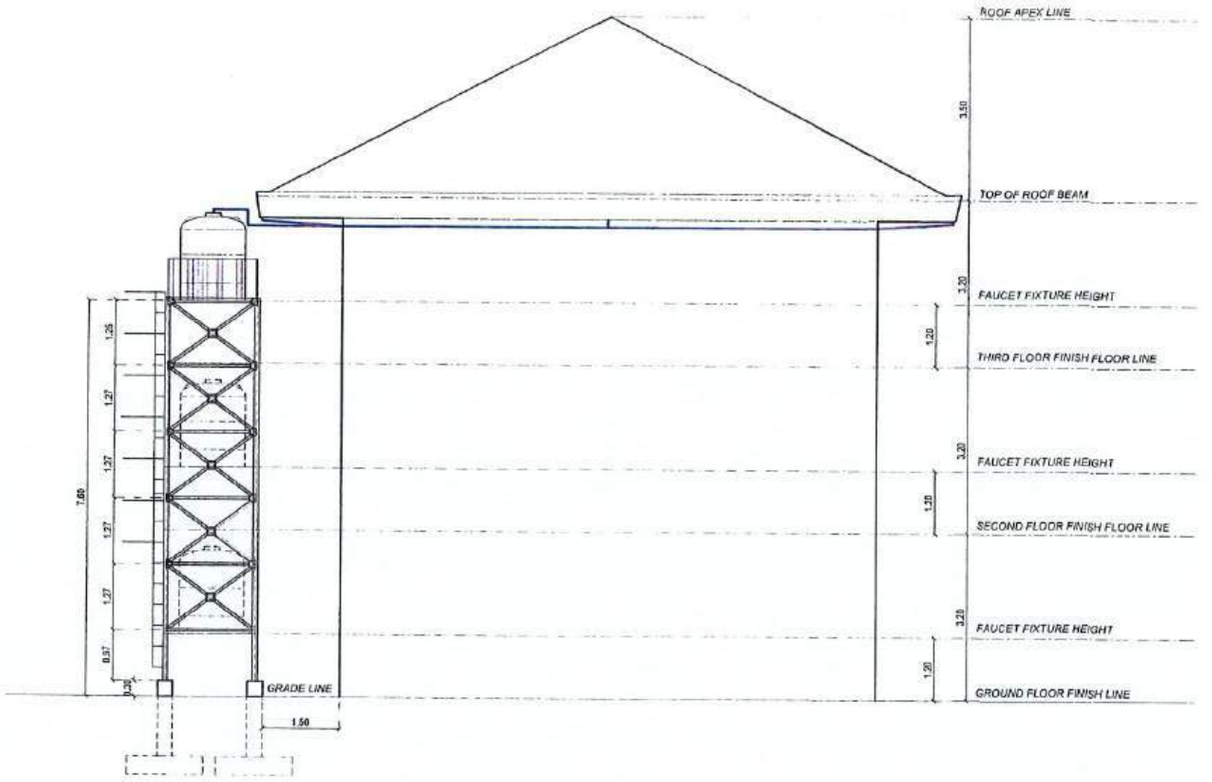


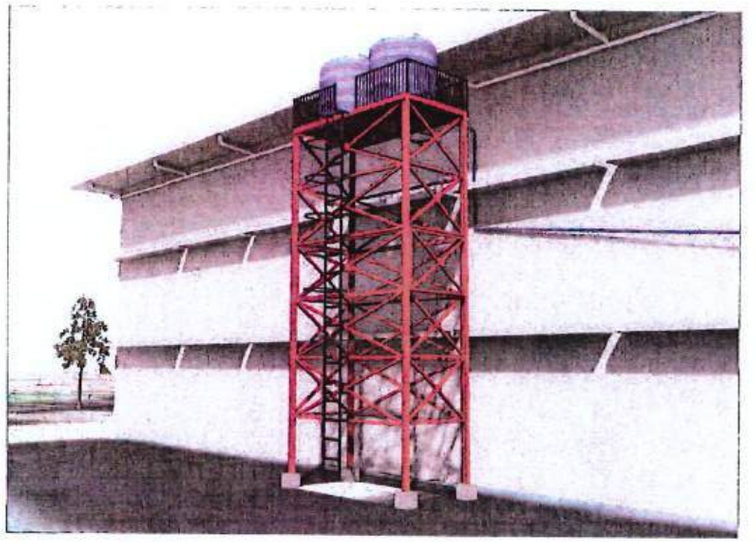
A/2/2 SCALE

BUGUIASADMINISTRATION BUILDING ROOF PLAN

1:150 MTS.

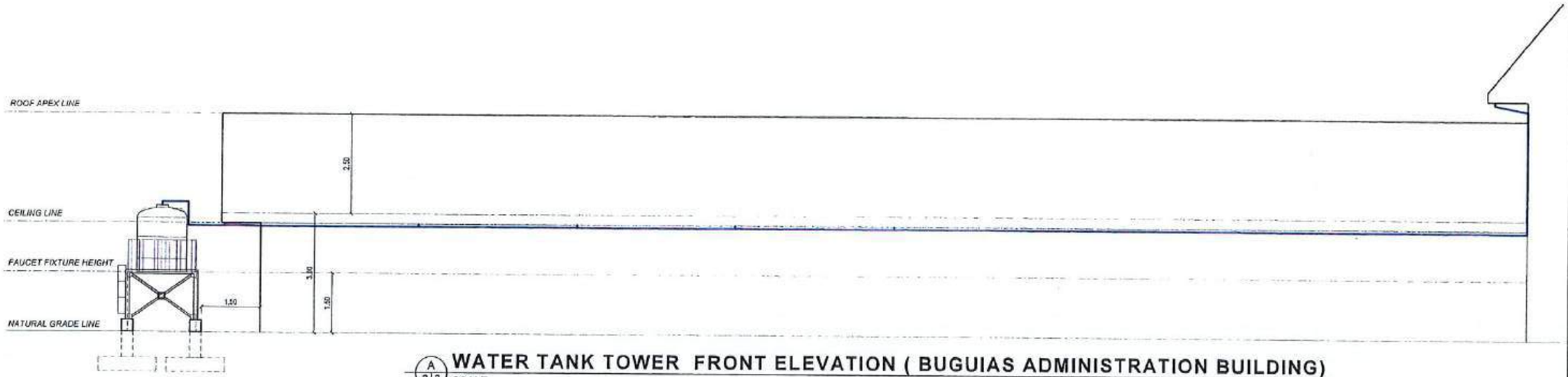
ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED:01-05-2026 PLACE:LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO. 0128359 VALID UNTIL: JULY 17, 2028 PTR: 9257287 ISSUED:01-05-2026 PLACE:LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOSUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-2 05-12





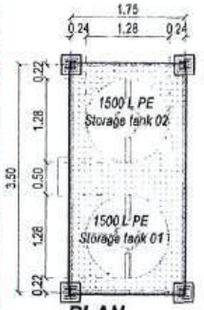
A 2/2 **WATER TANK TOWER ELEVATION (CYMBIDIUM BUILDING)**
SCALE 1:100 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO. 028540 VALID UNTIL: NOV.18, 2027 PTR 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Benguet State University PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-3 02-12



A 2 2 **WATER TANK TOWER FRONT ELEVATION (BUGUIAS ADMINISTRATION BUILDING)**
SCALE 1:100 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED: 01-03-2026 PLACE: LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-4 03-22



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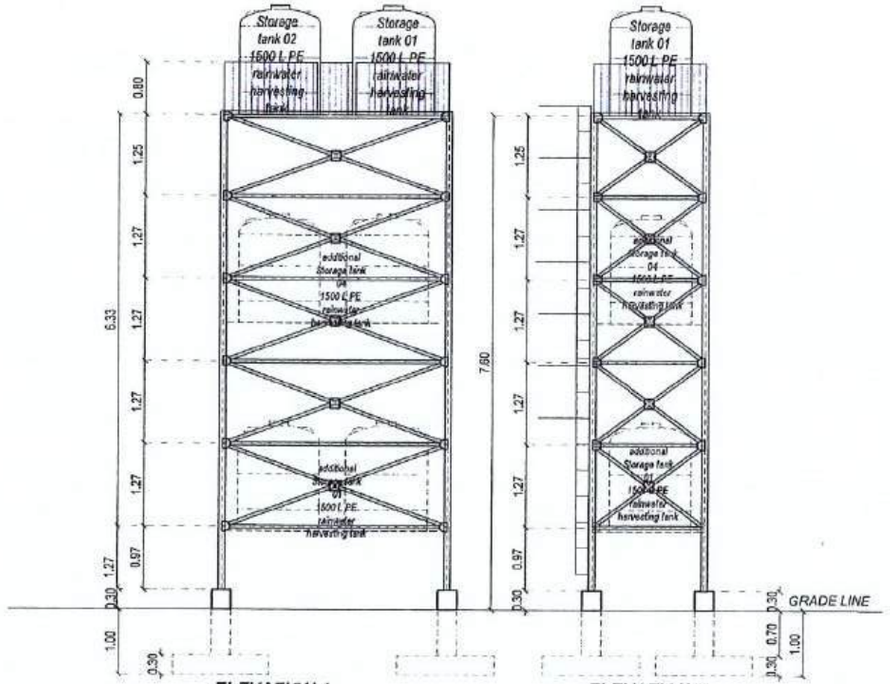
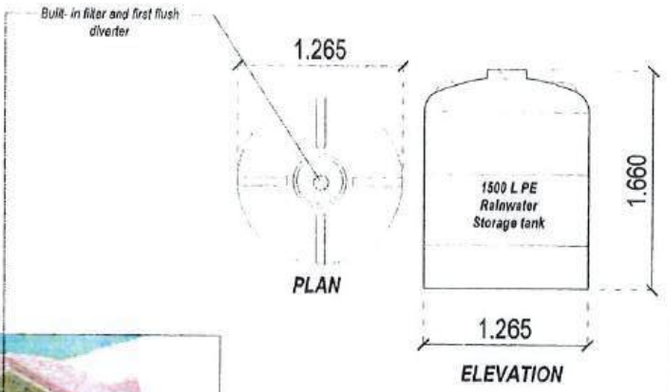


ELEVATION 1 ELEVATION 2

WATER TANK TOWER DETAILS

A 1 1 SCALE 1:80 MTS.



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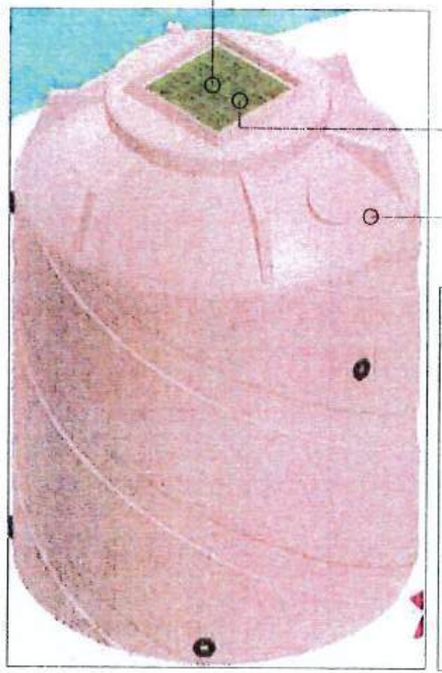
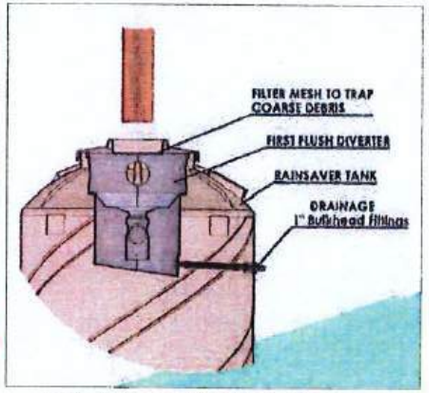


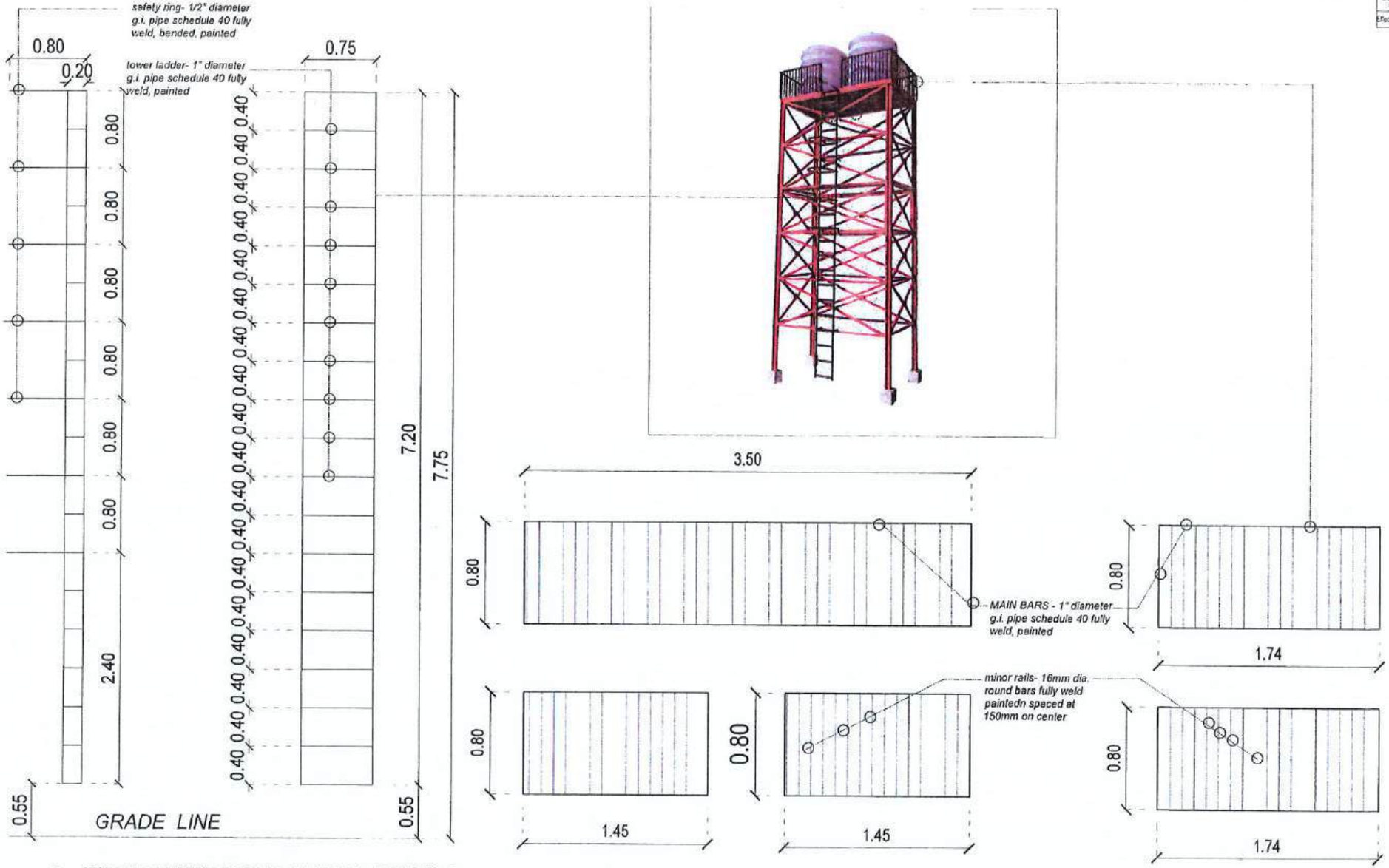


Built- in filter and first flush diverter

RAINWATER SAVER TANK DETAILS

A 1 1 SCALE 1:40 MTS.

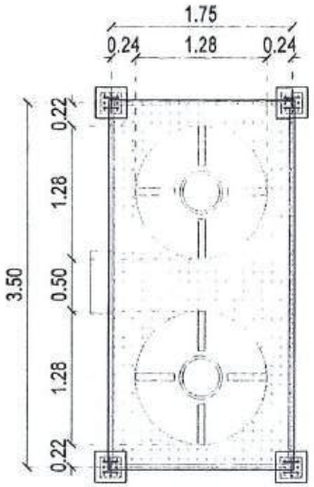
ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV.10, 2027 PTR: 9257354 ISSUED:01-05-2026 PLACE:LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BOLOQUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-5 04-12

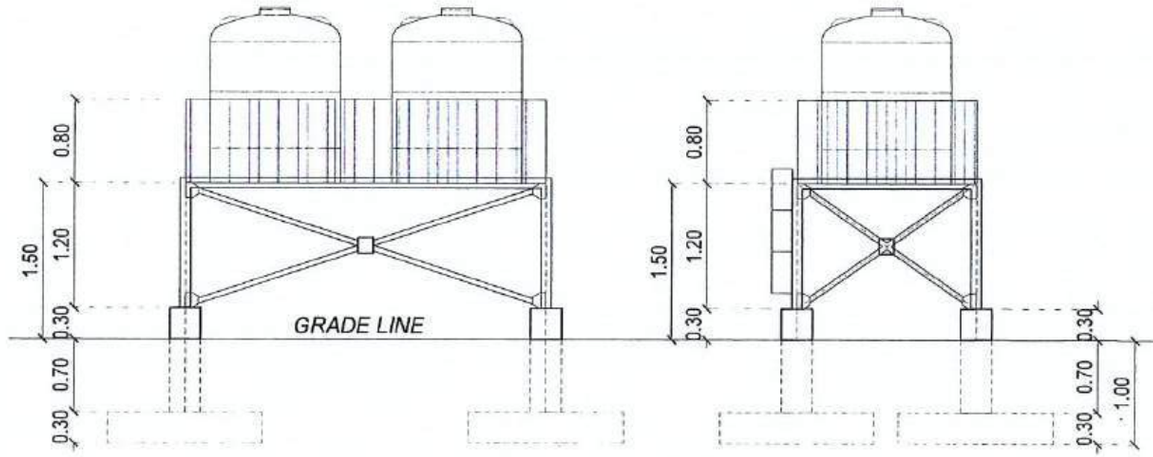


A 1 2 **WATER TANK TOWER LADDER DETAILS**
SCALE 1:30 MTS.

A 2 2 **WATER TANK TOWER RAILINGS DETAILS**
SCALE 1:30 MTS.

ARCH. HAZELINE N. TIBANGAY, MAP PRC LIC. NO: 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED:01-08-2026 PLACE:LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO: 0128359 VALID UNTIL: JULY 17, 2026 PTR: 9257287 ISSUED:01-06-2026 PLACE:LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOCHEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-6 05-12





WATER TANK TOWER DETAILS
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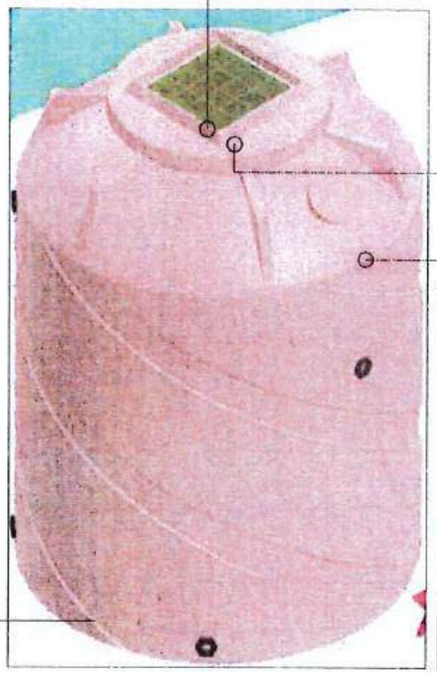
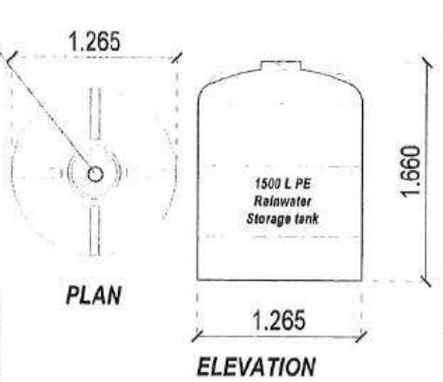
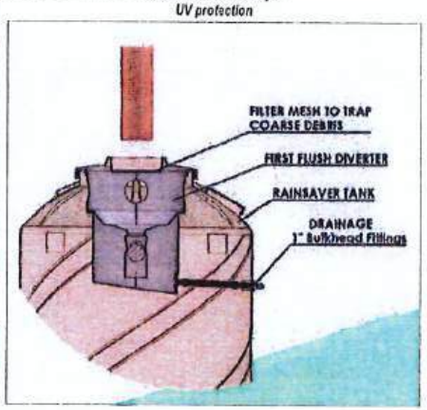
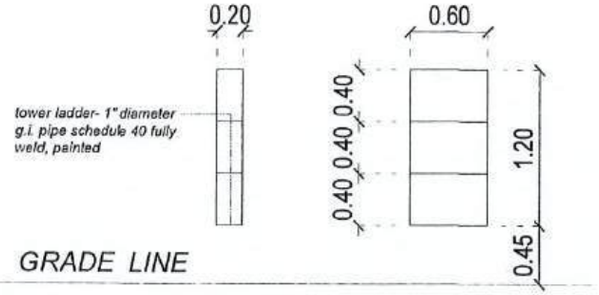






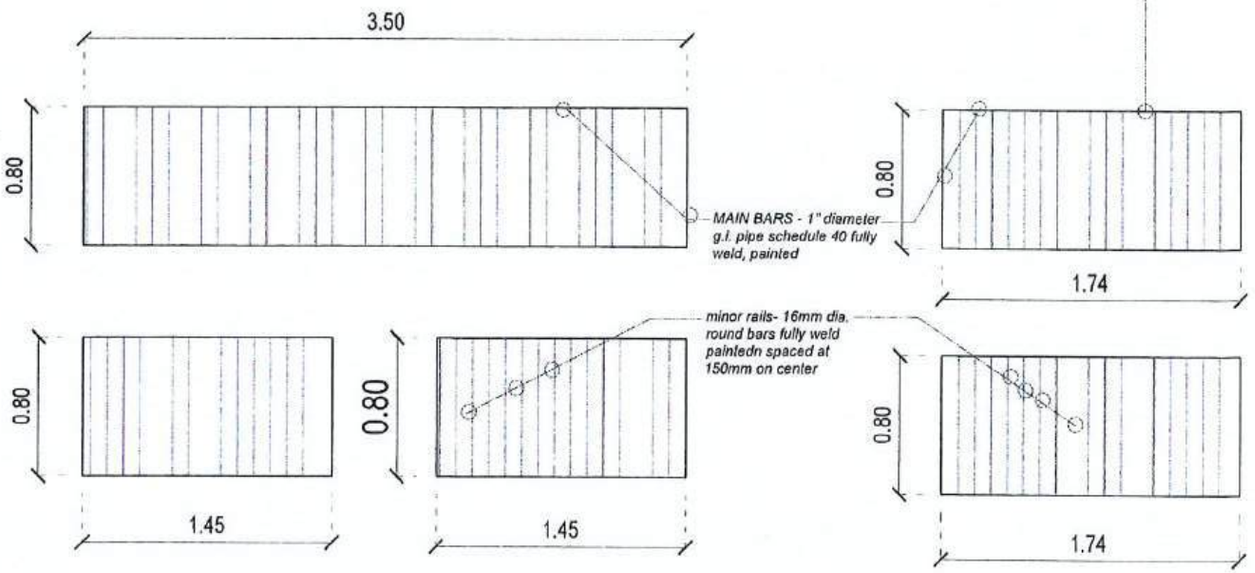
RAINWATER SAVER TANK DETAILS
SCALE 1:40 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV. 18, 2027 PTR: 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOQUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-7 04-12



A 1|2 WATER TANK TOWER LADDER DETAILS

SCALE 1:30 MTS.



A 2|2 WATER TANK TOWER RAILINGS DETAILS

SCALE 1:30 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 0126540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO: 0128359 VALID UNTIL: JULY 17, 2026 PTR: 9257287 ISSUED 01-06-2026 PLACE LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGLOEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A-8 05-12

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. IN REFERENCE TO THE OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS , OPENING IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS, ETC.
3. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECT.
4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, AND STRUCTURAL STEEL MUST BE NOTED AND APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES& PLACING

1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF THE TWENTY EIGHTH (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS.

	28 DAYS STRENGTH	MAX. SIZE OF AGG.	MAX. SLUMP
COLUMNS	3500 PSI (24 MPa)	20 mm	100 mm
FOOTING	3500 PSI (24 MPa)	20 mm	100 mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.
   - BEAM STIRRUPS AND COLUMN TIES ——— 40mm
     WHERE CONCRETE IS EXPOSED
   - TO EARTH BUT POURED AGAINST FORMS ——— 50mm
     WHERE CONCRETE IS DEPOSITED
   - DIRECTLY AGAINST EARTH ——— 75mm
3. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBORROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBORROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
5. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
7. STRIPPING OF FORMS AND SHORES:
   - FOUNDATION ——— 24 HRS.
   - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED ——— 8 DAYS
   - WALLS ——— 21 DAYS
   - BEAMS ——— 14 DAYS
   - COLUMNS ——— 21 DAYS
8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST FOUR (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 70 KPA. THE CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 2500MM BELOW NATURAL GRADE LINES UNLESS OTHERWISE INDICATED IN THE PLANS. NO FOOTING SHALL REST OF FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75MM CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50MM FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

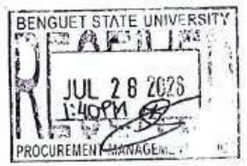
1. UNLESS OTHERWISE NOTED IN THE PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   - A. FOOTINGS ——— FY = 276 MPA (40,000 PSI)
   - B. COLUMNS ——— FY = 276 MPA (60,000 PSI)
   - C. BEAMS AND GIRDERS ——— FY = 276 MPA (60,000 PSI)

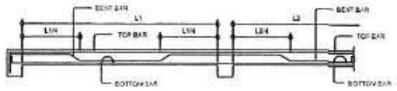
ALL REINFORCING BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10MM MAY BE PLAIN.

2. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE A AND TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



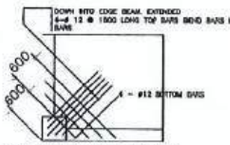


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

3. IF SLABS ARE REINFORCED BOTH WAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 ½) SLAB THICKNESS.
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 X GROSS CROSS-SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW):

SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ø 250mm EACH WAY
125 mm	10 mm ø 225mm EACH WAY
150 mm	10 mm ø 185mm EACH WAY
175 mm	10 mm ø 150mm EACH WAY
200 mm	10 mm ø 140mm EACH WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm Ø AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METERS APART.
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10MM Ø STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTH WAYS.

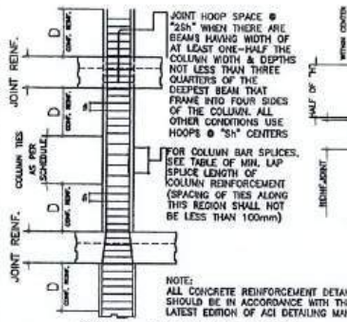


NOTES ON BEAMS AND GIRDERS

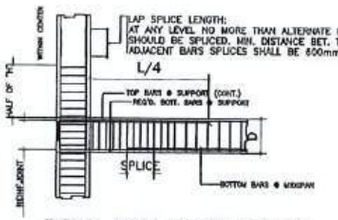
1. UNLESS, OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6MMØ FOR EVERY 4.5M OF SPAN. EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20MM FOR EVERY 3.0M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIGURE B-2.
3. IF THE BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25MM. EMBEDMENT LENGTH SHALL BE AS SHOWN IN TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25MMØ BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOW IN FIGURE B-1 UNLESS SPECIFIED ELSEWHERE.
6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS. BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY, NO SPLICE SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100MM O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, ⅙ THE CLEAR HEIGHT OF COLUMN OR 450MM.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40MM AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10MM TIES AT 100MM SHALL BE PROVIDED THROUGHOUT THE OFFSET REGION.
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEVATION
SHOWING DOWELS AND TIES SPACING



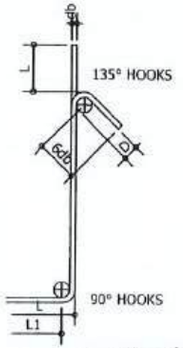
TYPICAL DETAIL OF COLUMN LAP SPLICE AND EXTERIOR GIRDER TO COLUMN CONNECTION

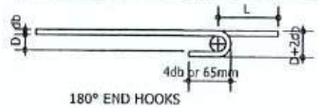
NOTES ON STIRRUPS

1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES AND CLOSE STIRRUPS MUST BE BENT AT 135°.

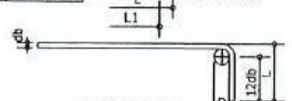
MAIN BAR END HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm Ø	60	75	125	150
12mm Ø	75	100	150	200
16mm Ø	95	125	175	250
20mm Ø	115	150	200	300
25mm Ø	150	200	230	450
28mm Ø	240	300	350	550
32mm Ø	300	335	450	600

STIRRUP AND TIE HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm Ø	40	125	85	100
12mm Ø	50	165	115	115
16mm Ø	65	200	140	150
20mm Ø	115	250	165	300
25mm Ø	150	365	230	405



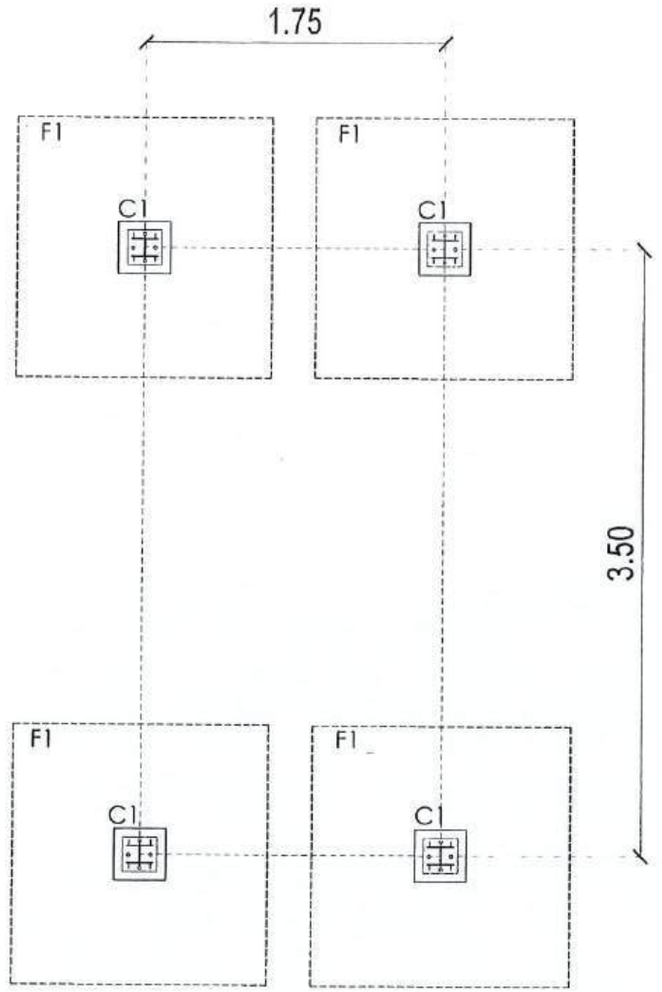


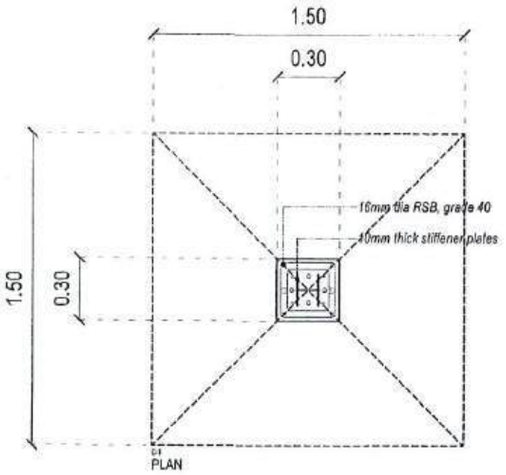
180° END HOOKS

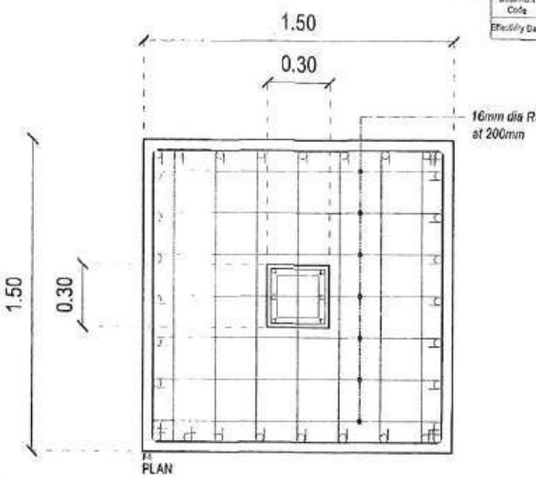


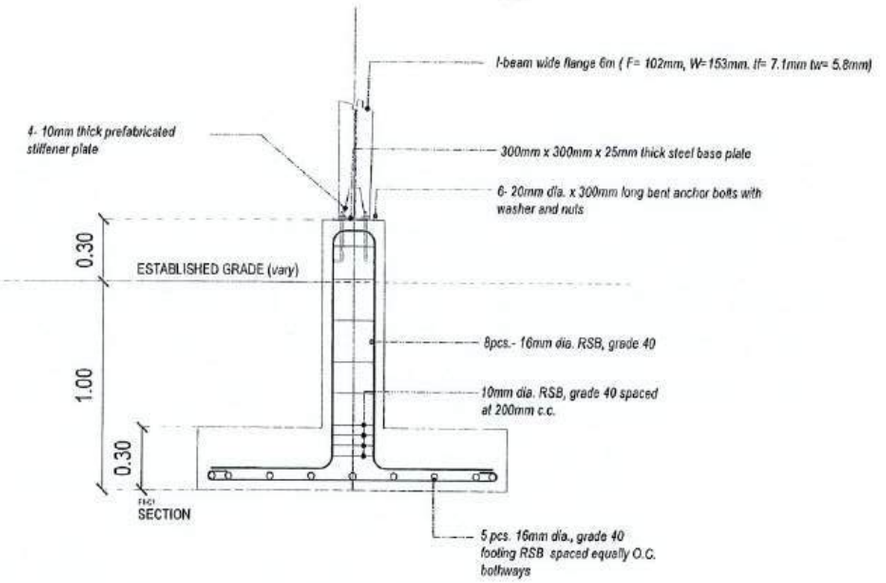
90° END HOOKS

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL NOV.18, 2027 PTR: 9257354 ISSUED 01-05-2026 PLACE LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO: 0126359 VALID UNTIL JULY 17, 2026 PTR: 9257287 ISSUED 01-06-2026 PLACE LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BOLOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S-1 06-12





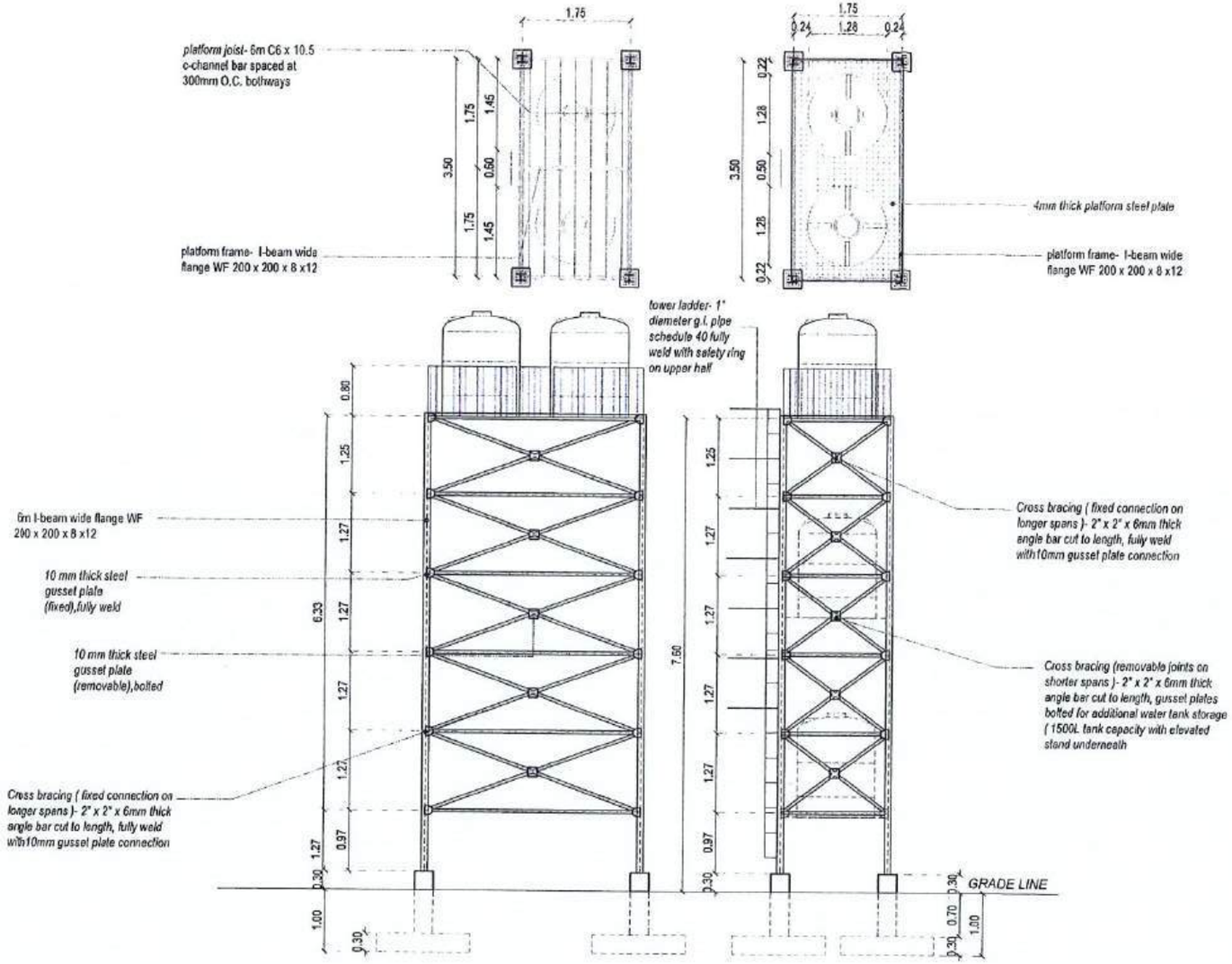




S 1/2 **WATER TANK TOWER FOOTING AND COLUMN PLAN**
SCALE 1:30 MTS.

S 2/2 **WATER TANK TOWER COLUMN AND FOOTING DETAILS**
SCALE 1:50 MTS.

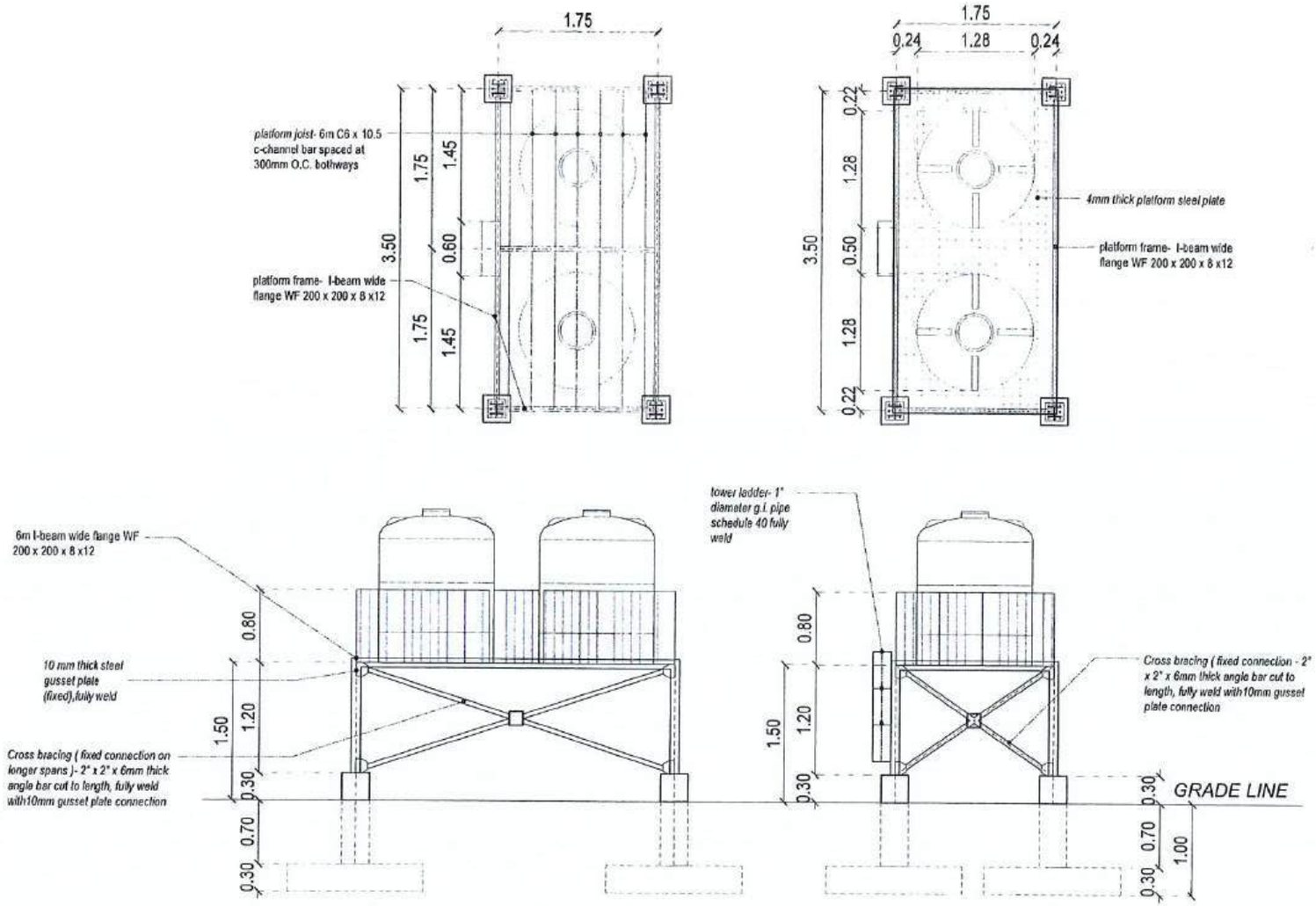
ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO: 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED 01-09-2026 PLACE LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO: 0128359 VALID UNTIL: JULY 17, 2028 PTR: 9257287 ISSUED 01-06-2026 PLACE LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BOLOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S-2 07-12



S 3|5 WATER TANK TOWER FRAMING DETAILS (CYMBIDIUM)

SCALE 1:75 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO. 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED: 01-06-2026 PLACE: LA TRINIDAD, BENGUET	SHERIFF JOHN C. LA MADRID ENGINEER PRC LIC. NO. 0128359 VALID UNTIL: JULY 17, 2026 PTR: 9257287 ISSUED: 01-06-2026 PLACE: LA TRINIDAD, BENGUET	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S-3 08-12



S 3|5

WATER TANK TOWER FRAMING DETAILS(BUGUIAS ADMIN. BUILDING)

SCALE 1:50 MTS.

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PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORKS TO BE DONE AND SIZES OF PIPES TO BE USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL REGULATIONS AND ORDINANCES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED IN THE WORKING DRAWINGS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE UPON THE APPROVAL OF THE SANITARY ENGINEER.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. ALL PIPES SHALL BE PROVIDED W/ PROPER HANGER AND SUPPORT.
5. ALL FIXTURES SHALL BE VENTED INDIVIDUALLY AND WATERLINES SHALL BE VALVE BY GROUP.
6. UNLESS OTHERWISE SPECIFIED, ALL PLUMBING FIXTURES SHALL BE PROPERLY VENTED. MAXIMUM DISTANCE OF VENTILATION FROM FIXTURES SHALL BE 1.50m MEASURED ALONG THE LENGTH OF PIPE.
7. ALL PLUMBING FITTINGS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE MANHOLE IF SUCH INSTALLATIONS ARE INSIDE THE CEILING.
8. ALL CHANGES IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND. ONE EIGHT WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE BEND COMBINATION MAY BE USED ONLY ON VENT PIPE.
9. NO DOUBLE HUB OR DOUBLE TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES.
10. PROVIDE PIPE SLEEVES AT WALL, COLUMNS OR SLAB TO PROTECT FROM BREAKAGE.
11. ALL EXPOSED PIPINGS AND FITTINGS IN THE AREAS SHALL BE CHROME PLATED.
12. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
13. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGE END.
14. USE POLYPROPYLENE RANDOM, TYPE 3, PN20 FOR ALL WATER PIPING SYSTEM.
15. USE uPVC SANITARY PIPING SYSTEM SERIES 1000 FOR 100 Ø AND SMALLER AND GRAVITY SEWER MAIN uPVC PIPING SYSTEM FOR 150 Ø AND BIGGER.
16. ENGINEER-IN-CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE, STREET SEWER AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.

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MATERIAL SPECIFICATIONS

COLD WATER LINE - POLYPROPYLENE BY VESBO, UNITEC, (FOR INTERIOR PIPES)WIRSBO & REHAU,OR APPROVED EQUIVALENT.

VENT & DOWNSPOUT - 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000. (FOR EXTERIOR AND EXPOSED PIPES) PNS/SAO 374. MANUFACTURED ACCORDING TO ASTM 2729.

DRAINAGE LINE - 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. SERIES 1000. MANUFACTURED ACCORDING TO ASTM 2729.

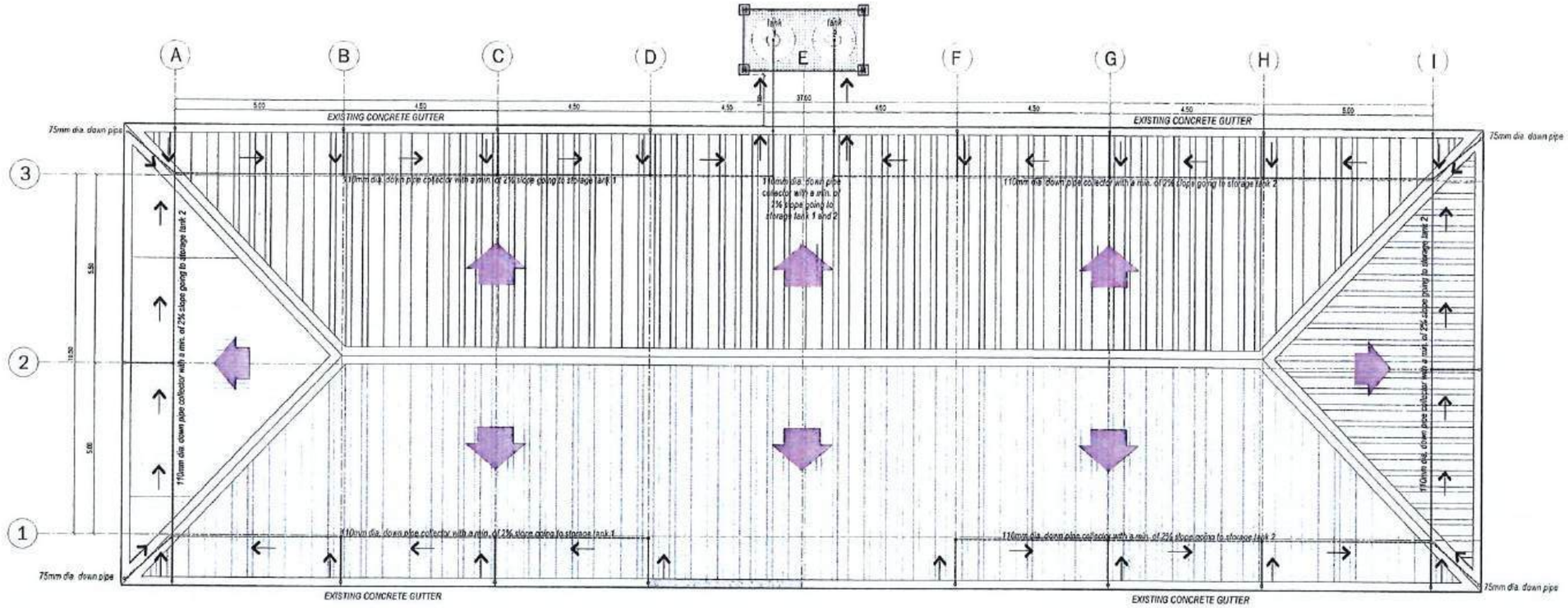
- 300mm. Ø LARGER SHALL BE REINFORCED CONCRETE PIPE. CONFORMING TO ASTM-76 & NON-REINFORCED CONCRETE PIPE 200mm. TO 350mm.Ø TO ASTM-C14.

SEWER LINE - 50 TO 150mm. Ø SHALL BE POLYVINYL CHLORIDE (PVC) PIPE.SDR-35 MANUFACTURED ACCORDING TO ASTM 3034.

PIPE DIAMETER - ALL PIPE DIAMETERS INDICATED IN THE DRAWINGS ARE INSIDE DIAMETERS.

PLUMBING LEGENDS:	
SYMBOL	DESCRIPTION
	GATE VALVE
	CHECKVALVE
	WYE PIPE FITTING
	ELBOW PIPE FITTING
	P-TRAP PIPE FITTING
$O_{DS.}$	DOWN SPOUT PIPE
$O_{SP.}$	STACK PIPE
$\square_{fd.}$	FLOOR DRAIN
$\oplus_{lav.}$	LAVATORY
$\oplus_{wc.}$	WATER CLOSET
$\oplus_{uri.}$	URINAL
$\oplus_{sink.}$	KITCHEN COUNTER SINK
	CLEAN-OUT
	WATER TAP
———	SANITARY LINE
———	WATER LINE

ARCH. HAZELINE N. TIBANGAY, UAP	ENGINEER	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT	PROJECT TITLE/ LOCATION: "CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY"	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET
PRC LIC. NO: 026540 VALID UNTIL: NOV.18, 2027	PRC LIC. NO:	PREPARED BY: MADV	BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	LEILA P. BULOGUEY	RICHARD H. KINNUD	KENNETH ALIP LARUAN	AS SHOWN	P-1 09-12
PTR: 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	PTR: LA TRINIDAD	DATE: JUNE 2026		END-USER/ EXECUTIVE DEAN	SECTOR VICE PRESIDENT	PRESIDENT		

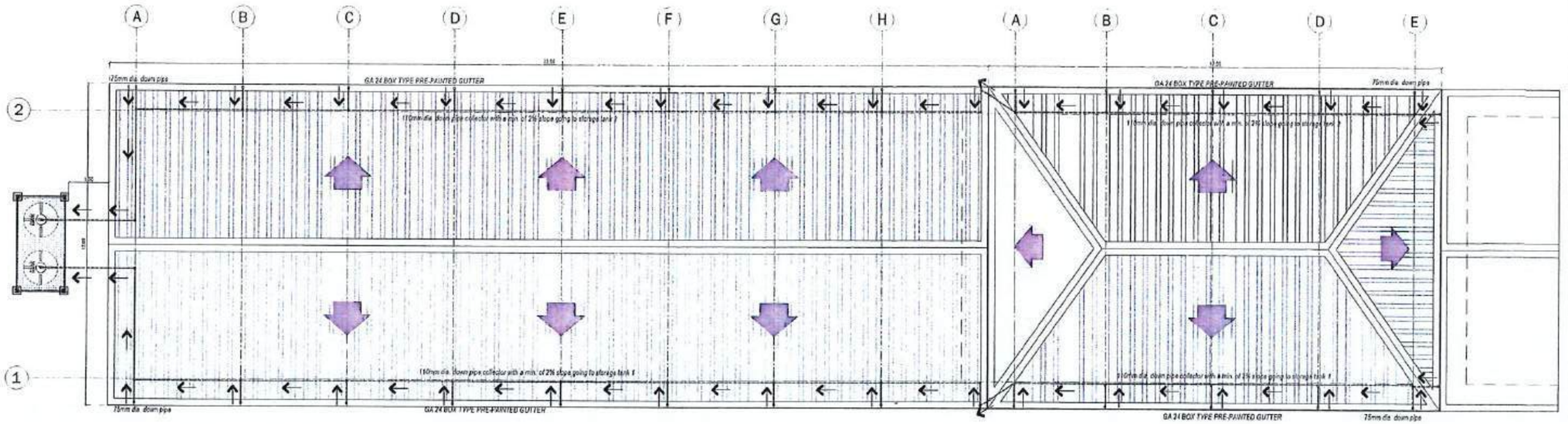


CYMBIDIUM BUILDING RAINWATER CATCHMENT PLAN

P 1 1

SCALE 1:125 MTS.

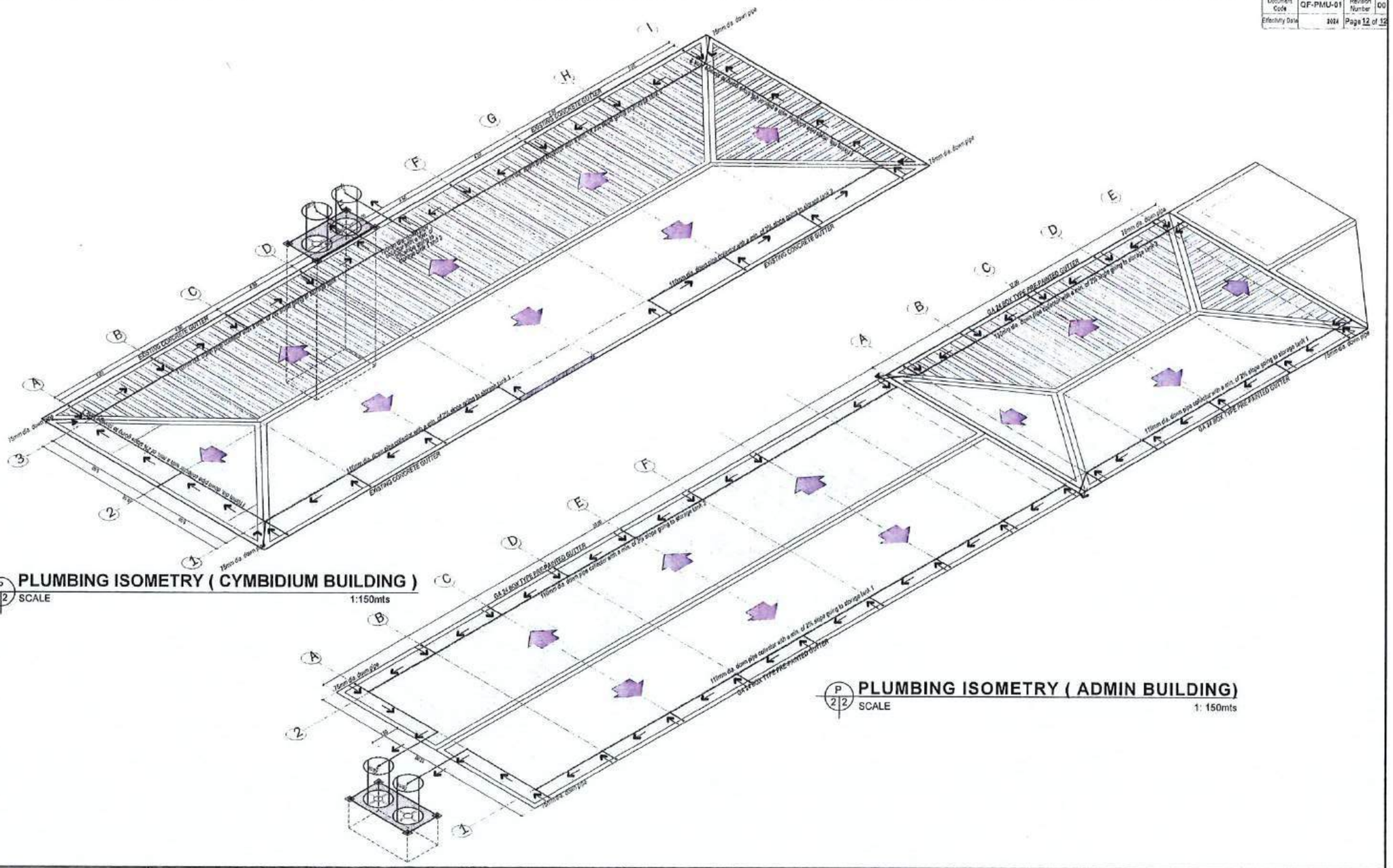
ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO. 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET P-2 10-12



P 1 1 BUGUIAS ADMINISTRATION BUILDING RAINWATER CATCHMENT PLAN

SCALE 1:150 MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO. 028540 VALID UNTIL: NOV.18, 2027 PTR: 9257354 ISSUED 01-08-2026 BAGUIO CITY, BENGUET	ENGINEER PRC LIC. NO: PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET P-3 11-12



P 1 2 PLUMBING ISOMETRY (CYMBIDIUM BUILDING)
SCALE 1:150mts

P 2 2 PLUMBING ISOMETRY (ADMIN BUILDING)
SCALE 1: 150mts

ARCH. HAZELINE N. TIBANGAY, UAP PRC LIC. NO. 0028540 VALID UNTIL: NOV.16, 2027 PTR: 9257354 ISSUED 01-08-2026 PLACE LA TRINIDAD, BENGUET	ENGINEER PRC LIC. NO. PTR: LA TRINIDAD	Republic of the Philippines Benguet State University La Trinidad, Benguet PROJECT MANAGEMENT UNIT PREPARED BY: MADV DATE: JUNE 2026	PROJECT TITLE/ LOCATION " CONSTRUCTION OF BSU-BUGUIAS CAMPUS RAIN WATER HARVESTING FACILITY" BSU BUGUIAS CAMPUS, LOO, BUGUIAS BENGUET	CONFORME: LEILA P. BULOGUEY END-USER/ EXECUTIVE DEAN	RECOMMENDING APPROVAL: RICHARD H. KINNUD SECTOR VICE PRESIDENT	APPROVED: KENNETH ALIP LARUAN PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET P-4 12-12