



**Republic of the Philippines
CIVIL AVIATION AUTHORITY
OF THE PHILIPPINES**



**REQUEST FOR QUOTATION
NO.: RFQ-2023-063**

Date: October 12, 2023

Name of the Company : _____
 Address : _____
 Contact No. : _____
 PhilGEPS Registration No. : _____

Sir/Madam:

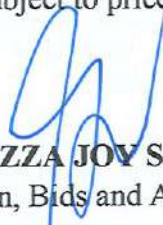
Please quote your best offer (lowest net, price, taxes, and government discount terms included) and submit your Quotation duly signed by you or your duly authorized representative not later than **OCTOBER 18, 2023 at 9:00AM** for:

Name of the Project : **REPAIR OF CSI BUILDING AT LAOAG INTERNATIONAL AIRPORT**
 Location : **LAOAG INTERNATIONAL AIRPORT**
 Terms of Reference :

Sealed quotations must be submitted either personally to Ms. Hazelle May C. Andres, Head, Secretariat of the Bids and Awards Committee of Laoag International Airport (BAC-LIA) or e-mail at areacenter1_bac@caap.gov.ph. For any clarification, do not hesitate to contact us through the contact information seen below.

Aside from the Terms and Conditions provided at the back portion of this RFQ, please observed the following general conditions:

1. **The following documents must be attached upon submission of the Quotation:**
 - a) Mayor's Permit
 - b) PhilGEPS Certificate of Registration
2. All quotations shall be considered as fixed price and not subject to price escalation during the contract implementation.
3. Payment shall be made through check.


ATTY. RIZZA JOY S. VALLESTERO
 Chairperson, Bids and Awards Committee

After having carefully read and accepted the Terms and Conditions, I/We submit our quotations for the following item/s:

ITEM DESCRIPTION (SPECIFY THE BRAND AND MODEL OF YOUR OFFER/PROPOSAL, IF APPLICABLE)	APPROVED BUDGET OF THE CONTRACT (ABC)	OFFER*						REMARKS
		PRICE				Compliance w/ Technical Specifications		
		QTY	UNIT	Unit Price	Total Price	Yes	No	
1. Supply of labor and materials which will be used for the project titled: REPAIR OF CSI BUILDING AT LAOAG INTERNATIONAL AIRPORT	₱699,863.89	1	Lot					



**Republic of the Philippines
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Scope of Works: 1. Site Works 2. Removal of Structures 3. Masonry Works 4. Ceiling Works 5. Waterproofing Works 6. Electrical Works 7. Carpentry Works 8. Tile Works 9. Painting Works 10. Doors and Windows 11. Plumbing Works 12. OSHP Number of Days to Complete: Forty (40) Calendar Days								
TOTAL ABC	P699,863.89							
GRAND TOTAL:								

Note: Quotation for each item must not exceed the ABC per item

**Signature over Printed Name
 Supplier/Dealer/Contractor**



TERMS AND CONDITIONS

1. Bidders shall provide correct and accurate information required in this form.
2. Price quotation/s must be valid for a period of Thirty (30) calendar days from the date of submission.
3. Price quotation/s shall be denominated in Philippine Peso which includes all taxes, duties and/or levies payable.
4. Quotations exceeding the ABC shall be rejected.
5. Award of contract shall be made to the lowest quotation (for goods and infrastructure) or, the highest rated offer (for consulting services) which complies with the minimum technical specifications and other terms and conditions stated herein. Further, the most advantageous to the government to the point of quality of materials and prices as well as the responsiveness of the bids shall be the basis of the award.
6. *The Head of the Procuring Entity reserves the right to reject any and all bids, declare a failure of bidding or not award the contract in any of the following conditions set forth by Sec. 41 (Reservation Clause) of the Revised IRR of RA 9184.*
7. The Supply Office of LIA shall have the right to inspect and to test the goods to confirm their conformity to the technical specifications.
8. *Date of Completion/Delivery:* In case of an approved POW, within the period stated therein. While, in cases of regular procurement, within 7-10 days or less, after the issuance of the Purchase Order. Further, any request of extension shall be sent to the End-User/Implementing Facility concern.
9. *Mode and Terms of Payment:* Within ten (10) working days after the supplies/materials and labor/service have been inspected and accepted, respectively, through a check issued by the procuring entity.
10. Liquidated damages equivalent to one tenth of one percent (0.001%) of the value of the goods not delivered within the prescribed delivery period shall be imposed per day of delay. This Office (LIA) shall rescind the contract once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, without prejudice to other courses of action and remedies open to it.

NOTE: The aforesaid Terms and Conditions shall be without prejudice to any provisions of a Contract which will be executed by and between the Procuring Entity and Contractor/Supplier/Dealer in order to conform with the requirements set forth by RA 9184.

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
 PROJECT : Repair of CSI Building
 LOCATION : Laoag International Airport
 SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

SITE WORKS

QUANTITY 1.0 LOT

A. DIRECT COST

1.	MATERIALS	QUANTITY	UNIT COST	AMOUNT
MATERIAL COST				-

2.	EQUIPMENT	QUANTITY	UNIT COST	AMOUNT
1	welding machine	6 days	/days	
2	rotary hammer	6 days	/days	
3	Scaffoldings (4 sets)	6 days	/days	
EQUIPMENT COST				

3.	LABOR	NO. OF DAYS	UNIT COST	AMOUNT
1	1 Foreman	6 days	/days	
2	2 Skilled Worker	6 days	/days	
3	2 Laborer	6 days	/days	
LABOR COST				

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST			
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
 PROJECT : Repair of CSI Building
 LOCATION : Laoag International Airport
 PROJECT : BILL OF QUANTITY/DETAILED ESTIMATE

REMOVAL OF STRUCTURES

QUANTITY 1.00 lot

A. DIRECT COST

1. MATERIALS			QUANTITY	UNIT COST	AMOUNT
					-
MATERIAL COST					-
2. EQUIPMENT			QUANTITY	UNIT COST	AMOUNT
1	demolition hammer		4 days	/days	
2	welding machine		4 days	/days	
EQUIPMENT COST					
3. LABOR			NO. OF DAYS	UNIT COST	AMOUNT
1	1	Foreman	4 days	/days	
2	2	Skilled Worker	4 days	/days	
3	2	Laborer	4 days	/days	
LABOR COST					
TOTAL DIRECT COST					

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT		TOTAL MARK-UP	
3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
TOTAL INDIRECT COST				

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST		
TOTAL UNIT COST			

AGENCY : Department of Transport
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
PROJECT : BILL OF QUANTITY/DETAILED ESTIMATE

MASONRY WORKS
QUANTITY

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST		AMOUNT
1	cement	6	bags		/bags	
2	gravel (3/4 crash)	1	cu.mtr		/cu.mtr	
3	sand	1	cu.mtr		/cu.mtr	
4	12mm	4	pcs		/pcs	
5	10mm dia rsb	4	pcs		/pcs	
6	GI Tie Wire	2	kls		/kls	
7	replacement of rooftop railings (304 stainless steel)	1	lot		/lot	
MATERIAL COST						

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1	Cut-off Machine	5	days		/days	
EQUIPMENT COST						

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	1	Foreman	5	days		/days	
2	2	Skilled Worker	5	days		/days	
3	2	Laborer	5	days		/days	
LABOR COST							

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

PROJECT : Repair of CSI Building
 LOCATION : Laoag International Airport

PROJECT : BILL OF QUANTITY/DETAILED ESTIMATE

CEILING WORKS

QUANTITY

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST	AMOUNT
1	ficemboard 45mm	28	pcs	/pcs	
2	wall angle	42	pcs	/pcs	
3	metal furring	124	pcs	/pcs	
4	c-channel	32	pcs	/pcs	
5	5/32x3/4 blind rivet	7	box	/box	
6	w-clip	200	pcs	/pcs	
MATERIAL COST					

2. EQUIPMENT		QUANTITY		UNIT COST	AMOUNT
1	angle grider	7	days	/days	
2	electric drill	7	days	/days	
EQUIPMENT COST					

3. LABOR			NO. OF DAYS		UNIT COST	AMOUNT
1	1	Foreman	7	days	/days	
2	2	Skilled Worker	7	days	/days	
3	1	Laborer	7	days	/days	
LABOR COST						

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

ELECTRICAL WORKS

QUANTITY 1.0 LOT

A. DIRECT COST

1. MATERIALS			QUANTITY		UNIT COST		AMOUNT
1	convenient outlet 2 gang wide series		18	Sets		/Sets	
2	convenient outlet 2 gang wide series (weather proof)		8	Sets		/Sets	
3	2 gang switch with plate		3	Sets		/Sets	
4	3 gang switch with plate		3	Sets		/Sets	
5	2.0mm THHN wire		2	roll		/roll	
6	3.5mm THHN wire		4	roll		/roll	
7	junction box		6	pcs		/pcs	
8	electrical tape big		3	pcs		/pcs	
9	tri color pin lights 6 watts		10	Sets		/Sets	
10	led light ceiling mounted 12 watts		12	Sets		/Sets	
11	20mm pvc conduits		65	pcs		/pcs	
12	solvent cement (neltex)		2	can		/can	
13	flexible connector		50	pcs		/pcs	
14	flexible hoose		1	roll		/roll	
15	CB 125 amp plug in 3phase		1	pcs		/pcs	
16	CB 30amp		4	pcs		/pcs	
17	CB 20amp		10	pcs		/pcs	
18	CB 15amp		2	pcs		/pcs	
19	ACU out-let		4	Sets		/Sets	
			MATERIAL COST				

2. EQUIPMENT			QUANTITY		UNIT COST		AMOUNT
1						/	-
			EQUIPMENT COST				-

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	2	Electrician	8	days		/days	
3	2	laborer	8	days		/days	
			LABOR COST				

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			TOTAL MARK-UP
3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		

TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

CARPENTRY WORKS

QUANTITY 1.0 LOT

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST		AMOUNT
1	4.5mm thk ficem board	9	pcs		/pcs	
2	2x4 metal stud	21	pcs		/pcs	
3	5/32 x 3/4 blind rivet	1	box		/box	
MATERIAL COST						

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1	angle grinder	1	days		/days	
2	electric drill	1	days		/days	
EQUIPMENT COST						

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	1	foreman	3	days		/days	
2	1	skilled worker	3	days		/days	
LABOR COST							

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			TOTAL MARK-UP
3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		

TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
OBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

I. TILE WORKS
 QUANTITY 1.0 LOT

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST		AMOUNT
1	30x60 rough tiles	28	pcs		/pcs	
2	tile adhesive	4	bags		/bags	
3	tile grout	6	kls		/kls	
MATERIAL COST						

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1	Angle Grinder	4	days		/days	
EQUIPMENT COST						

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	1	Foreman	4	days		/days	
2	1	Skilled Worker	4	days		/days	
2	1	Laborer	4	days		/days	
LABOR COST							

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

PAINTING WORKS

QUANTITY 1.0 LOT

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST	AMOUNT
Ceiling					
1	acritex primer	10	gal	/gal	
2	acritex crest	6	gal	/gal	
3	acritex top coat gloss	8	gal	/gal	
4	reducer	3	pcs	/pcs	
5	gap fillers painters buddy	5	pcs	/pcs	
6	sand paper	25	pcs	/pcs	
Interior walls					
1	acritex primer	12	gal	/gal	
2	acritex crest	10	gal	/gal	
3	acritex top coat gloss	9	gal	/gal	
4	reducer	6	pcs	/pcs	
5	gap fillers painters buddy	15	pcs	/pcs	
6	sand paper	100	pcs	/pcs	
MATERIAL COST					

2. EQUIPMENT		QUANTITY		UNIT COST	AMOUNT
1				/	-
EQUIPMENT COST					-

3. LABOR		NO. OF DAYS		UNIT COST	AMOUNT
1	4 Painter	10	days	/days	
LABOR COST					

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			TOTAL MARK-UP
3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
TOTAL INDIRECT COST				

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST			
TOTAL UNIT COST				

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
OBJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

DOORS AND WINDOWS
 QUANTITY

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST		AMOUNT
1	door jamb solid wood (mahogany)	1	set		/set	
2	door knob	1	set		/set	
3	reflective sliding window 2x1.2mtrs	1	set		/set	
4	alum.sliding door tempered clear glass	19	sq.m		/sq.m	
MATERIAL COST						

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1					/	-
EQUIPMENT COST						-

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	1	Foreman	1	days		/days	
2	2	Skilled Worker	5	days		/days	
LABOR COST							

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

I. PLUMBING WORKS

QUANTITY 1.0 lot

A. DIRECT COST

1. MATERIALS		QUANTITY		UNIT COST		AMOUNT
1	septic vault 3 chambers (1.6x3mtrs@1.8depth)	1	lot		/lot	
2	4" sanitary pvc pipe s1000	5	pcs		/pcs	
3	pvc elbow 4" 45deg	4	pcs		/pcs	
4	wye 4"	4	pcs		/pcs	
5	tee 4-2-4"	3	pcs		/pcs	
6	elbow 4" 90 deg	2	pcs		/pcs	
7	2" pipe s1000	6	pcs		/pcs	
8	elbow 2"90 deg	7	pcs		/pcs	
9	elbow 2"45 deg	8	pcs		/pcs	
10	solvent cement (neltex)	3	pcs		/pcs	
11	p-trap 2"	3	pcs		/pcs	
12	overhead shower set with faucet (304 Stainless Steel)	2	unit		/unit	
13	Faucet	4	pcs		/pcs	
MATERIAL COST						

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1	Angle Grinder	2	days		/days	
EQUIPMENT COST						

3. LABOR			NO. OF DAYS		UNIT COST		AMOUNT
1	1	Foreman	4	days		/days	
2	2	Skilled Worker	4	days		/days	
3	2	Laborer	4	days		/days	
LABOR COST							

TOTAL DIRECT COST

B. INDIRECT COST

1.	OCM(Overhead, Contingencies, Miscellaneous)			
2.	CONTRACTORS PROFIT			
			TOTAL MARK-UP	

3.	Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%		
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TOTAL INDIRECT COST

C. TOTAL COST

1.	DIRECT COST + INDIRECT COST	
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TOTAL UNIT COST

AGENCY : Department of Transportation
 CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
OBJECT : Repair of CSI Building
LOCATION : Laoag International Airport
SUBJECT : BILL OF QUANTITY/DETAILED ESTIMATE

I. OCCUPATIONAL HEALTH AND SAFETY PROGRAM

QUANTITY 1.0 LOT

A. DIRECT COST

2. EQUIPMENT		QUANTITY		UNIT COST		AMOUNT
1	Reflectorized Vest, Safety Shoes, Hard Hat, Welding Gloves	6	sets		/sets	
EQUIPMENT COST						

TOTAL DIRECT COST

B. INDIRECT COST

1. CONTRACTORS PROFIT					
				TOTAL MARK-UP	
3. Value Added Tax, VAT (OCM + Contractor's Profit + Direct Cost)	5%				

TOTAL INDIRECT COST

C. TOTAL COST

1. DIRECT COST + INDIRECT COST					
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TOTAL UNIT COST

AGENCY: Department of Transportation
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT: REPAIR OF CSIS BLDG
LOCATION: LAOAG INT'L AIRPORT
SUBJECT: SCOPE OF WORKS

1.0 GENERAL

- The works to be accomplished by the successful bidders shall consist of furnishing, supervision of labor, materials, supplies, tools and equipment to complete the Scope of Works of the **Repair of CSI Building**.
- All Scope of Works must be according to plans and specifications. The quality and types of materials must conform to the specifications and must be approved first by the Engineer In-charge assigned by CAAP-LIA
- The Contractor shall be responsible in providing safety perimeter fence or security fences, personal protective equipment (PPE) for staffs and workers on site while construction is ongoing. Safety reports should be prepared regularly.
- Contractor shall provide accomplishment work pictures (Printed/Soft Copy: before, during and after) for documentation to the the Engineer-in-charge assigned by CAAP-LIA.

2.0 LOCATION OF THE PROJECT

- The Contract to be bid is located at Laoag International Airport.

3.0 SCOPE OF WORKS

- The details of work are at best enumerated below, but be noted that the Contract includes all works and services although not specifically mentioned herein, but are needed to fully complete the Project.
- The Project covers the supply of labor, materials, mobilization/demobilization, tools/equipment, and construction related permits necessary for **Repair of CSI Building** with the following scope of works which shall be done in accordance with the approved plans, specifications and provision of contract to wit: (Work shall include but is not limited to the following)

4.0 CIVIL/STRUCTURAL WORKS

I. SITE WORKS

- The work includes all materials, labor, equipment and performance all Site Works. The contractor/service provider shall undertake clearing and grabbing of roofdeck and for the Disposal of Waste.

II. REMOVAL OF STRUCTURES

- Some of partition walls will be demolished and refinished on the edges. The contractor/service provider shall undertake all works(Please see attached Plan and PoW for complete details and specifications).

III. MASONRY WORKS

- The work includes all materials, labor, equipment and performance for Masonry. The contractor/service provider shall undertake the construction of partition wall, replacement of parapet railings and construction of new septic tank(Please see attached Plan and PoW for complete details and specifications).

IV. CEILING WORKS

- The work includes all materials, labor, equipment and performance for Ceiling. The contractor/service provider shall undertake the installation of ceiling for SCI building except for the CR and Storage Room (Please see attached Plan and PoW for complete details and specifications).

V. WATER PROOFING WORKS

- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake the cleaning and grinding the surface of the slab and application of the water proofing materials particularly at the roofdeck slab and for toppings of concrete cement (Please see attached Plan and PoW for complete details and specifications).

VI. ELECTRICAL WORKS

- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake on the rewiring of the whole building(Please see attached Plan and PoW for complete details and specifications).

VII. CARPENTRY WORKS

- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake construction of partition wall approximatelu 1.5x3x2.7m height(Please see attached Plan and PoW for complete details and specifications).

VIII. TILE WORKS

- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake laying of tiles at CR flooring only.(Please see attached Plan and PoW for complete details and specifications).

IX. PAINTING WORKS

- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake painting of all inside wall and ceiling.(Please see attached Plan and PoW for complete details and specifications).

X.DOORS AND WINDOWS

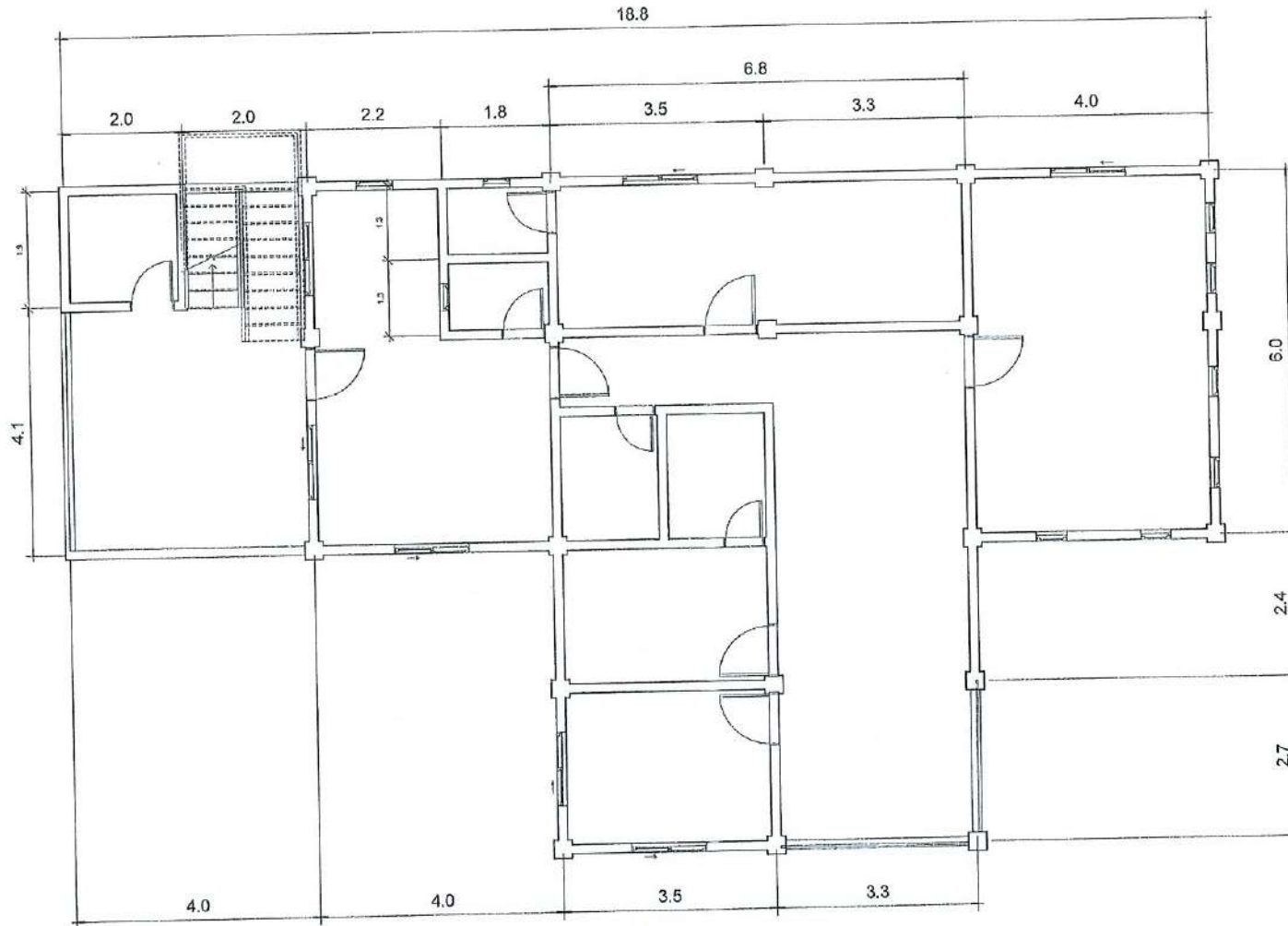
- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake installation of Doors and Windows.(Please see attached Plan and PoW for complete details and specifications).

XI.PLUMBING WORKS

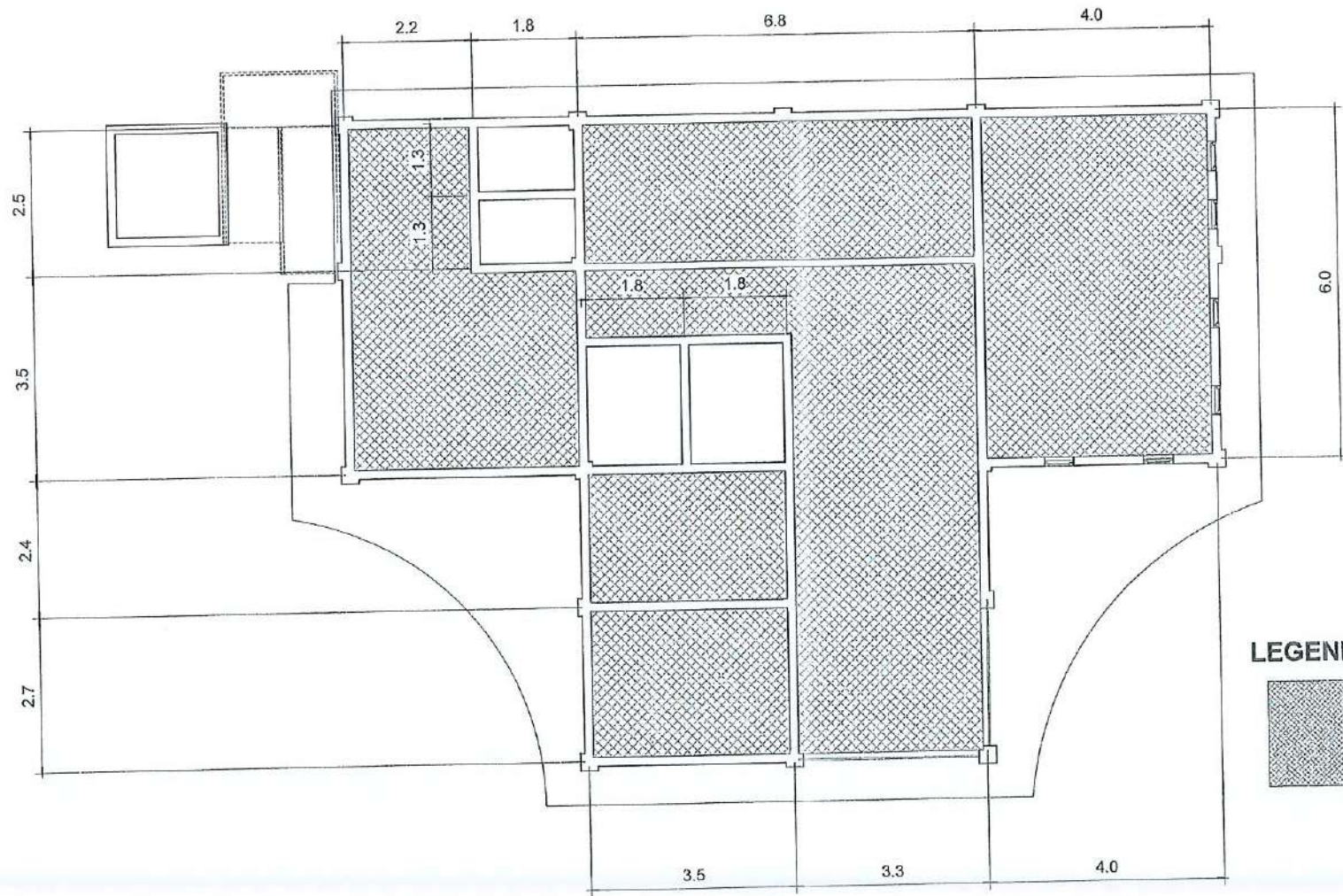
- The work includes all materials, labor, equipment and performance for water proofing. The contractor/service provider shall undertake intallation of plumbing materials to the new septic tank and also for installation of fixtures(Please see attached Plan and PoW for complete details and specifications).

XII. OCCUPATIONAL HEALTH AND SAFETY PROGRAM

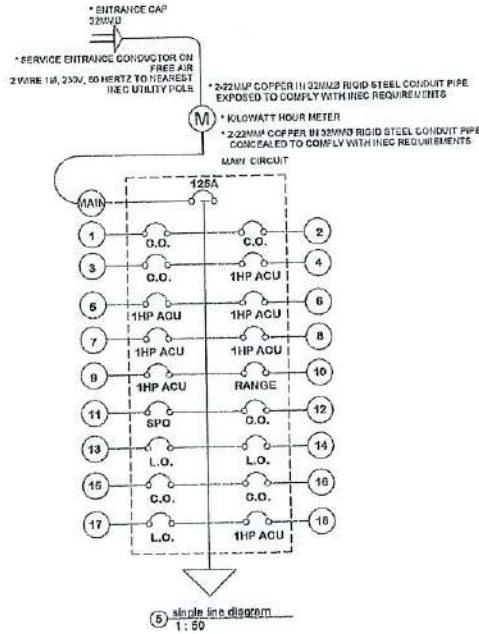
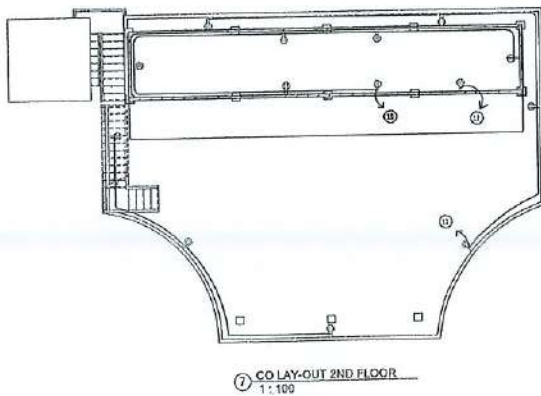
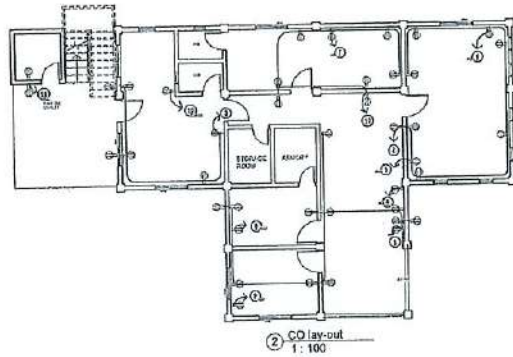
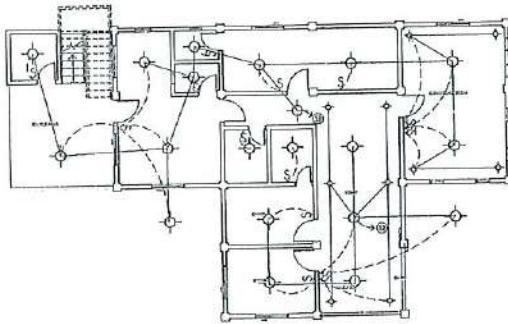
- Every personnel that will be working on the restricted area shall wear necessary Personal Protective Equipment. Safety officer will be present during the Implementation of the Project.



① MASTER KEY PLAN
1:40



① CEILING PLAN LAYOUT
1:40



CMT. NO.	LOAD DESCRIPTION	L.O.	C.O.	SPO	WATTS	VOLTS	AMPS	CB RATING		WIRE		PIPE	
								AT	P	NO. AND SIZE	TYPE	SIZE	TYPE
1			12		2160	230	9.39	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
2			7		1260	230	5.47	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
3			6		960	230	4.03	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
4				ACU	1810	230	8	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
5				ACU	1810	230	8	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
6				ACU	1540	230	6	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
7				ACU	1540	230	6	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
8				ACU	1810	230	8	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
9				ACU	1810	230	8	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
10				RANGE	1500	230	6.62	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
11				SPD	1500	230	6.62	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
12					1260	230	5.47	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
13			14		960	230	4.03	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
14			10		1660	230	7.05	15	2	2-#3.0mm SQ.	THHN	18mm DIA.	uPVC
15			8		1660	230	7.05	15	2	2-#3.0mm SQ.	THHN	18mm DIA.	uPVC
16				G	1060	230	4.00	10	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
17			8		600	230	2.60	15	2	2-#3.0mm SQ.	THHN	18mm DIA.	uPVC
18				ACU	1810	230	8	20	2	2-#3.5mm SQ.	THHN	19mm DIA.	uPVC
TOTAL					27465		119.97						

COMPUTATIONS:
 $FL_1 = 27,465 \text{ WATTS} \cdot 80 + 0.25(0.30)$
 230 VOLTS
 =87.65 AMPERES

USE:
 MAIN FEEDER CONDUCTOR:
 2-30.0MM SQ. THHN 41mm DIA. RSG PIPE
 MAIN OVERCURRENT PROTECTION:
 1-125A, 100 AF, 2P, 10KAICB 240 VOLT
 MOLDED CASE CIRCUIT BREAKER

6 SCHEDULE OF LOADS
1:1

GENERAL NOTES AND SPECIFICATIONS:

- The type of power service to be used herein shall be 230 volts AC, single phase, 2 wire 60 Hz.
- All electrical installation herein shall be done in accordance with the latest provisions of the latest edition of the Philippines electrical code and requirements of the electric cooperative servicing the area.
- All materials and wire to be used herein shall be new and of the approved type for which they are intended.
- The minimum size of conductor to be used herein shall be 2.0 sq. mm THHN and 3.5 sq. mm THHN for lighting outlet let and convenient outlet respectively.
- The nominal diameter of uPVC or flexible electrical conduit shall be 20mm diameter.
- All switches shall be installed 1.30m above finish floor level.
- All convenient outlet shall be installed 0.35m above finish floor level.
- Weather required and necessary pull boxes and junction boxes shall be installed at convenient and in conspicuous locations through such boxes are not shown or indicated in the plan.
- The electrical works herein shall be done under the direct and immediate supervision of duly licensed registered electrical engineer or registered master electrician.

3 ELECTRICAL NOTES
1:1

SYMBOL	DESCRIPTION
	SERVICE ENTRANCE
	CIRCUIT BREAKER
	PANEL BOARDS
	KILOWATT HOUR METER
	CIRCUIT BREAKER (10 amp class)
	DUPLEX CONVENIENCE OUTLET
	WEATHER PROOF OUTLET
	SINGLE POLE SINGLE THROW SWITCH
	SWITCH IN 2-GANG PLATE
	SWITCH IN 3-GANG PLATE
	THREE WAY SWITCH
	ORDINARY SWITCH LINE
	CONDUIT LINE
	WALL LAMP
	INCANDESCENT LAMP
	REFRIGERATION OUTLET
	SPECIAL POWER OUTLET
	ELECTRIC WATER PUMP
	DECORATIVE DOWN LIGHT
	AIR CONDITION UNIT

4 ELECTRICAL SYMBOLS
1:75

PREPARED:

CHECKED/VERIFIED:

REGIE PARDO

ISA

JOEFFREY B. LACADON
ENGINEER II - FIC-BSM

PROJECT TITLE:

REPAIR OF CSI BUILDING

LOCATION:

LAOAG INTERNATIONAL AIRPORT, BRGY. 36
ARANIH, LAOAG CITY

APPROVED:

RONALDO V. ESTABILLO
CIVIL AVIATION AREA MANAGER, AREA 1

SCALE:

As Indicated

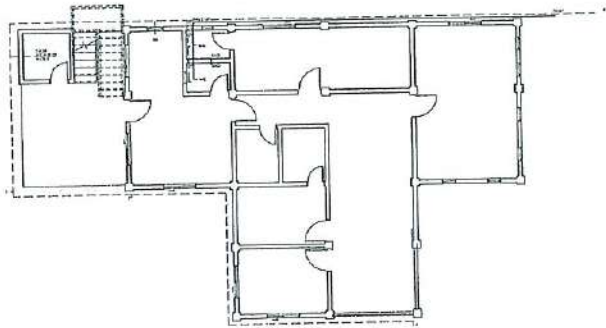
ELECTRICAL

E01



REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

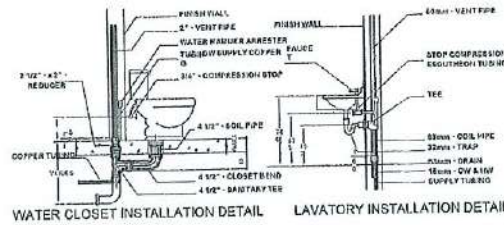


5. PLUMBING LAY-OUT PLAN
1:100

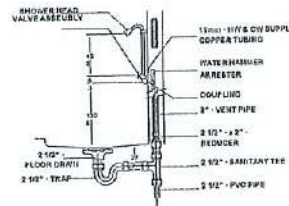
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
WC	WATER CLOSET	RD	ROOF DRAIN
LAV	LAVATORY	KS	KITCHEN SINK
FD	FLOOR DRAIN	CV	CHECK VALVE
SH	SHOWER HEAD	GV	GATE VALVE
SD	SHOWER DRAIN	M	WATER METER
SV	SEPTIC TANK	WL	WATER LINE
HB	HOSE BIBB	RL	ROOF LEADER LINE
CO	CLEAN OUT	SL	SEWAGE LINE
DS	DOWN SPOUT	MH	MANHOLE
VSTR	VENT STACK THRU ROOF	F	FAUCET

2. PLUMBING SYMBOLS
1:70

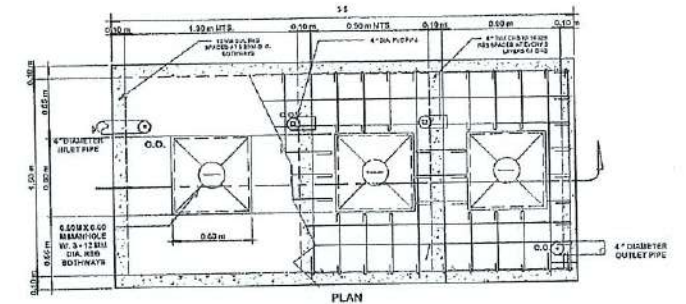
- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PLUMBING CODE OF THE PHILIPPINES, THE NATIONAL PLUMBING CODE, AND THE RULES AND REGULATIONS OF VINTAR, ILOCO'S NORTH.
- EVERY FIXTURES OF TRAPS MUST BE PROVIDED WITH INDIVIDUAL VENT, THERE SHALL BE REQUIRED VENTILATION AND LIGHTING SYSTEM FOR TOILET AND BATHROOMS.
- GRADES OF HORIZONTAL PIPING: RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AND AT A UNIFORM GRADES, OF NOT LESS THAN 2%.
- CHANGE IN DIRECTION: ALL CHANGE IN DIRECTION SHALL BE DONE WITH APPROPRIATE USE OF 45 DEGREES, WYE AT 90 DEGREES DIRECTION CHANGE, SWEEPER WYE MAY USE THE SAME, AND SHALL BE DONE FOR STACK TEES AND CROSSES MAY USE ONLY IN VENT PIPES.
- SLEEVE PIPES SHALL BE PROVIDED AT WALLS, COLUMNS OR SLABS GREATER THAN THE ACTUAL LINES PASSING THROUGH WALL OR UNDER SLAB TO PROTECT THE PIPES FROM BREAKAGE.
- CLEANOUT ARE UNDER THE FOLLOWING CONDITIONS:
 - EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY-TWO AND HALF DEGREES.
 - ONE AND HALF METERS (4.50M) INSIDE PROPERTY LINES BEFORE HOUSE DRAIN CONNECTION.
 - EVERY FIFTY METERS (15.00M) OF CONTINUOUS HORIZONTAL RUN PIPES.
 - AT THE END OF A HORIZONTAL LINES.
 - ON SEPTIC TANK CONCRETE COVER ABOVE SANITARY TEE ENDING HOUSE DRAIN INLET.
- THE DIGESTIVE CHAMBER OF SEPTIC TANK MUST BE WATER TIGHT AND AIR TIGHT.
- NOT LESS THAN 30 CM. OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF SEWAGE LEVEL.
- NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
- THE STORM DRAIN SHALL BE IN PERFECT ALIGNMENT.
- ALL WATER LINES, COLD WATER LINES, SHOULD BE UNPLASTICISED POLYVINYL CHLORIDE PIPE PVC PIPE.
- WATER SUPPLY SHOULD BE POTABLE WATER.



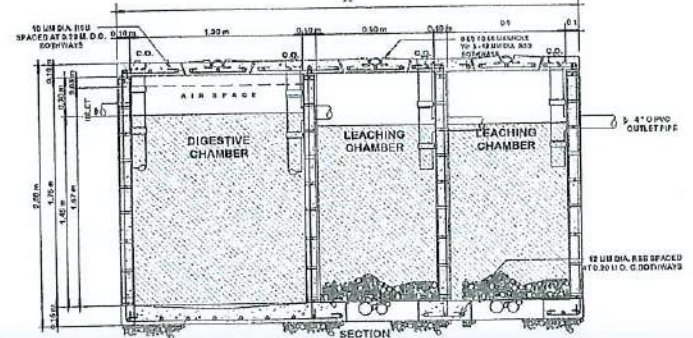
WATER CLOSET INSTALLATION DETAIL LAVATORY INSTALLATION DETAIL



SHOWER INSTALLATION DETAIL



PLAN



SECTION

1. SEPTIC VAULT
1:20

3. PLUMBING NOTES
1:400

4. Fixture details
1:150

PREPARED:

CHECKED/VERIFIED:

REGIE PARDU
 E.S.B.

JOEJEFFREY B. LAGADON
 ENGINEER II - FIC/BSM

PROJECT TITLE:

REPAIR OF CSI BUILDING

LOCATION:

LAOAG INTERNATIONAL AIRPORT, BRGY. 36
ARANIW, LAOAG CITY

APPROVED:

ROYAL B. ESTABILLO
 CIVIL AVIATION AREA MANAGER, AREA 1

SCALE:

As indicated
PLUMBING
 PL01

SCHEDULE OF LOADS												
CKT. NO.	LOAD DESCRIPTION			WATTS	VOLTS	AMPS	CB RATING		WIRE		PIPE	
	L.O.	C.O.	SPO				AT	P	NO. AND SIZE	TYPE	SIZE	TYPE
1		12		2100	230	9.39	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
2		7		1200	230	5.47	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
3		6		1000	230	4.69	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
4			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
5			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
6			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
7			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
8			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
9			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
10			RANGE	1500	230	6.52	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
11			SPO	1500	230	6.52	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
12		7		1200	230	5.47	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
13	14			1400	230	6.08	15	2	2-#2.0mm SQ.	THHN	20 mm DIA.	uPVC
14	16			1600	230	6.95	15	2	2-#2.0mm SQ.	THHN	20 mm DIA.	uPVC
15		6		1000	230	4.69	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
16		6		1000	230	4.69	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
17	8			800	230	2.60	15	2	2-#2.0mm SQ.	THHN	20 mm DIA.	uPVC
18			ACU	1840	230	8	20	2	2-#3.5mm SQ.	THHN	20 mm DIA.	uPVC
TOTAL				27400		119.07						

COMPUTATIONS:

$$FL_1 = \frac{27,400 \text{ WATTS}}{230 \text{ VOLTS}} \times .80 + 0.25(9.39)$$

$$= 97.65 \text{ AMPERES}$$

USE:

MAIN FEEDER CONDUCTOR:
2-30.0 MM SQ., THHN 41 mm DIA. RSC PIPE

MAIN OVERCURRENT PROTECTION:
1 - 125 AT, 100 AF, 2P, 10KAIC@ 240 VOLT
MOLDED CASE CIRCUIT BREAKER

