

PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

**PROVISION OF LABOR, MATERIALS, EQUIPMENT
RENTAL AND OTHER INCIDENTALS NEEDED FOR
THE ESTABLISHMENT OF GREENHOUSE WITH
HYDROPONICS AND SPRINKLER SYSTEM, UNDER
NUPAP AT BRGY. CABAROAN DAYA, VIGAN CITY,
ILOCOS SUR**

IB No.: DA-RFO 1-2025-INFRA-037

**Sixth Edition
July 2020**

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project –Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC –Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippines
DEPARTMENT OF AGRICULTURE
Regional Field Office No. 1
Aguila Road, Sevilla, City of San Fernando, La Union
Telephone No. (072) 242 1045/1046



INVITATION TO BID FOR THE PROVISION OF LABOR, MATERIALS, EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM, UNDER NUPAP AT BRGY. CABAROAN DAYA, VIGAN CITY, ILOCOS SUR

1. The Department of Agriculture - Regional Field Office 1 (DA-RFO 1), through the GAA FY 2025 intends to apply the sum of **One Million Pesos (PhP1,000,000.00)** being the Approved Budget for the Contract (ABC) to payment under the contract for the **PROVISION OF LABOR, MATERIALS, EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM, UNDER NUPAP AT BRGY. CABAROAN DAYA, VIGAN CITY, ILOCOS SUR** with project identification number **DA-RFO 1-2025-INFRA-037**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The DA-RFO 1 now invites bids for the above procurement project with the following details and specifications:

DETAILS AND SPECIFICATIONS		
Project Location: Brgy. Cabaroan Daya, Vigan City, Iocos Sur		
Project Description: Construction of greenhouse featuring hydroponics and a sprinkler system. The area dimensions total 120 square meters. Length = 15 meters; Width = 8 meters; Height = 4.5 meters		
Scope of work:		
Description	Qty	Unit
I. MOBILIZATION AND DEMOBILIZATION	1.00	l.s
II. CONSTRUCTION OF TEMPORARY FACILITY	12.00	sq.m.
III. PROVISION OF SAFETY AND HEALTH	1.00	l.s
IV. CLEARING AND GRUBBING	200.00	sq.m.
V. STRUCTURAL EXCAVATION	3.42	cu.m
VI. MASONRY WORKS (include Plastering)	36.00	sq.m.
VII. RSB WORKS	142.00	kgs
VIII. GRAVEL BEDDING	1.00	cu.m
IX. CONCRETE WORKS CLASS A with FORMS	0.42	cu.m
X. GREENHOUSE STRUCTURE (Installation with complete accessories)	1.00	l.s.
XI. PAINTING WORKS (Masonry & Metal Painting)	1.00	l.s.
XII. A-FRAME HYDROPONICS SYSTEM INSTALLATION (NFT Channel; NFT Connector, NFT End Cap with sprout; NFT hydroponic Channel Hydraulic Pipe Clamp; NFT Basket Pot; PVC Pipe & Fittings; Reservoir 1000 li; 70W	1.00	l.s.

	Submersible Pump; G.I. Tubular, Digital Timer and other accessories)		
XIII.	NURSERY BENCH WITH SPRINKLER SYSTEM INSTALLATION (Nursery Bench; Sprinkler System w/ fittings; 1 HP Booster Water Pump with accessories; and Water Tank with complete fittings & accessories)	1.00	l.s.
XIV.	ELECTRICAL WORKS	1.00	l.s.
XV.	PROJECT MARKER	1.00	unit
MINIMUM TECHNICAL PERSONNEL REQUIRED: <ul style="list-style-type: none"> • 1 Field Engineer • 1 Foreman • 2 Skilled Workers • 3 Unskilled Workers MINIMUM EQUIPMENT REQUIRED: <ul style="list-style-type: none"> • 1 Concrete mixer, one-bagger • 1 Bar Bender • 1 Bar Cutter • 1 Welding Machine 			

Completion of the Works is within **thirty-nine (39) calendar days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. (Instructions to Bidders).

- Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least seventy-five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

- Prospective bidders may obtain further information from and inspect the Bidding Documents at the address given below during **office hours at 8:00 AM to 5:00 PM, Monday to Friday**.

Department of Agriculture - Regional Field Office 1
Aguila Rd., Sevilla, City of San Fernando, La Union

- A complete set of Bidding Documents may be acquired by interested Bidders from **June 19, 2025 to July 8, 2025** from the address given and websites below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **PhP1,000.00**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
- The **DA-RFO 1** will hold a Pre-Bid Conference on **26 June 2025, 10:00 AM** at DA-RFO 1, 5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated above on or before **08 July 2025, 10:00 AM. Late bids shall not be accepted.**
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. **Bid opening** shall be on **08 July 2025, 10:00 AM** at DA-RFO 1, 5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union. Bids will be opened in the presence of the bidders or their authorized representatives.

10. **ADDITIONAL INSTRUCTIONS TO BIDDERS:**

- a. The bidders or their duly authorized representatives may attend the bid opening;
- b. In case a representative will be attending the Bid Opening, a Special Power of Attorney (SPA), Secretary's Certificate, Board Resolution or any other forms of authorization (notarized), as the case may be, together with the Company-issued Identification Card or any valid ID must be presented upon submission of the bid proposal at the BAC Secretariat. The name/title of the project must be indicated in the authorization or SPA.
- c. Each Bidder shall submit one copy of the first and second components of its Bid. Bidders shall submit their bids with proper index tabbing using the forms specified in the Bidding Documents in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously;

The first component which is the Technical Eligibility requirements must be soft-bound, marked with the **name of the contract** and its **IB No., name and address of the bidder**, and enclosed in an envelope, sealed with signature and marked with the **name of the contract, name and address of the bidder**, addressed to the **BIDS AND AWARDS COMMITTEE (BAC) DA RFO-1 CITY OF SAN FERNANDO, LA UNION**, the **specific Identification No.** and the warning **"DO NOT OPEN BEFORE..."** the date and time for the bid opening.

The second component being the Financial requirements may be soft-bound/fastened in a folder, marked with the **name of the contract** and its **IB No., name and address of the bidder**, and enclosed in an envelope, sealed with signature and marked with the **name of the contract, name and address of the bidder**, addressed to the **BIDS AND AWARDS COMMITTEE (BAC) DA RFO-1 CITY OF SAN FERNANDO, LA UNION**, the **specific Identification No.** and the warning **"DO NOT OPEN BEFORE..."** the date and time for the bid opening.

The Technical and Financial Requirement each in separate envelopes, shall be enclosed in a mother envelope with the same sealing and markings.

Non-compliance with index tabbings shall not be a ground for outright disqualification or declaration of ineligibility. The improper index tabbings must be duly acknowledged by the bidder/representative and be subject to the

bid evaluation and post-qualification of the Technical Working Group (TWG) as to their substance.

d. All **documents** in the **Financial Requirements envelope** must be **duly signed and/or initialed**, as needed, by the bidder/authorized representative on **EACH AND EVERY PAGE** thereof.

11. The **DA-RFO 1** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and Section 41 of the 2016 Revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

DENNIS I. TACTAC, ABE

Chairperson, Bids and Awards Committee

Department of Agriculture - Regional Field Office 1

Aguila Road, Sevilla, City of San Fernando, La Union

Tel. No.:(072) 242/1045-46, Ext. 07

E-mail add: bacsec@ilocos.da.gov.ph

13. For downloading of Bidding Documents, you may visit the following websites:

DA-RFO1 Website: <https://ilocos.da.gov.ph/>

PhilGEPS Website: <https://www.philgeps.gov.ph/>

June 18, 2025

Approved by:

(Sgd.) GILBERT D. RABARA, DVM

Vice-Chairperson, Bids and Awards Committee

Invitation to Bid Identification No. DA-RFO 1-2025-INFRA-037

/ear/25

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Department of Agriculture - Regional Field Office 1 (DA-RFO 1)** invites Bids for the **PROVISION OF LABOR, MATERIALS, EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM, UNDER NUPAP AT BRGY. CABAROAN DAYA, VIGAN CITY, ILOCOS SUR** with Project Identification Number **DA-RFO 1-2025-INFRA-037**.

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **GAA FY 2025** in the amount of **One Million Pesos (PhP1,000,000.00)**.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that subcontracting is not allowed:

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address, **5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union** indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. *Payment of the contract price shall be made in:*

- a. Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid until **November 4, 2025**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be

opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: ESTABLISHMENT OF GREENHOUSE/NURSERY															
7.1	N/A															
10.3	N/A															
10.4	The key personnel must meet the required minimum years of experience set below: <table><tr><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr><tr><td>Field Engineer</td><td>3 years</td><td>Construction Supervision</td></tr><tr><td>Foreman</td><td>2 years</td><td>Masonry/Carpentry</td></tr></table>	Key Personnel	General Experience	Relevant Experience	Field Engineer	3 years	Construction Supervision	Foreman	2 years	Masonry/Carpentry						
Key Personnel	General Experience	Relevant Experience														
Field Engineer	3 years	Construction Supervision														
Foreman	2 years	Masonry/Carpentry														
10.5	The minimum major equipment requirements are the following: <table><tr><th>Equipment</th><th>Capacity</th><th>No. of Units</th></tr><tr><td>Concrete mixer</td><td>one-bagger</td><td>1</td></tr><tr><td>Bar Bender</td><td></td><td>1</td></tr><tr><td>Bar Cutter</td><td></td><td>1</td></tr><tr><td>Welding Machine</td><td></td><td>1</td></tr></table>	Equipment	Capacity	No. of Units	Concrete mixer	one-bagger	1	Bar Bender		1	Bar Cutter		1	Welding Machine		1
Equipment	Capacity	No. of Units														
Concrete mixer	one-bagger	1														
Bar Bender		1														
Bar Cutter		1														
Welding Machine		1														
12	N/A															
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: <div>a. The amount of not less than Php20,000.00 bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</div> <div>b. The amount of not less than Php50,000.00 bid security is in Surety Bond.</div>															
19.2	Partial bid is not allowed.															
20	Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law.															
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.															

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity’s Representative/Project Engineer. Except as otherwise stipulated in the **SCC**, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	N/A
4.1	Schedule of construction in full shall start within <u>7 calendar days</u> from receipt of the Notice to Proceed
6	N/A
7.2	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
10	a. Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work (PERT-CPM, Construction Schedule, S-Curve and Construction Methods) to the Procuring Entity's Representative within 10 calendar days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is 10% of the 15% Advance Payment.
13	The amount of the advance payment is 15% of the Contract Price.
14	Materials and equipment delivered on the site but not completely put in place (Actual Accomplishment) shall <u>not</u> be included for payment.
15.1	The "as built" Drawings and/or operating and maintenance manuals shall be required prior to the final payment.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is 10% of the final billing.

Section VI. Specifications

Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

Section VIII. Bill of Quantities

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission; **or**
Original copy of Notarized Bid Securing Declaration; **and**
- (f) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- (g) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (h) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC).

Class “B” Documents

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or**
duly notarized statements from all the potential joint venture partners stating

that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (m) Cash Flow by Quarter.



DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY _____

PROJECT REFERENCE NO.: _____

NAME OF PROJECT: _____

**STATEMENT OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET
STARTED, IF ANY, WHETHER SIMILAR OR NOT SIMILAR IN NATURE AND COMPLEXITY TO THE CONTRACT TO BE BID****CONTRACT TO BE BID:** _____**BUSINESS NAME:** _____**BUSINESS ADDRESS:** _____

Name of Contract/ Location Project Cost	a. Owner's Name b. Address c. Telephone Nos.	NATURE OF WORK	CONTRACTOR'S ROLE		a. Date Awarded b. Date Started c. Date Completion	% Accomplishment		Value of Outstanding Works
			Description	%		Planned	Actual	

Note: This statement shall be supported with:

1. Notice of Award and/or Contract
2. Notice to Proceed issued by the Owner

Submitted by:

Name of Representative of BidderPosition

Date: _____

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY

Project Reference No.: _____

Name of the Project: _____

Location of the Project: _____

Statement identifying the Bidder's Single Largest Completed Contract (SLCC) similar in nature

Contract to be Bid: _____

Business Name: _____

Business Address: _____

Name of Client	a. Owner's Name b. Address c. Telephone Nos.	Title of the Project in the Contract	Nature of Work	a. Date Awarded b. Contract Effectivity c. Date Completed	Contractor's Role (whether sole contractor, subcontractor, or partner in a JV)		a. Total Contract Value at Award b. Total Contract Value at Completion c. Contract Duration
					Description	%	
<u>Government</u>							
<u>Private</u>							

Note: This statement shall be supported with:

1. Notice of Award
2. Notice to Proceed
3. Contract
4. Owner's Certificate of Acceptance OR Constructors Performance Evaluation Summary (CPES) Rating

Submitted by : _____

(Printed Name and Signature)

Designation : _____

Date : _____

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION Project Identification No.: *[Insert number]*

To: **DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1
City of San Fernando, La Union**

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE*

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY

Standard Form Number: SF-INFR-48

Revised on: August 11, 2004

Contract Reference No.: _____

Name of the Contract: _____

Location of the Contract: _____

(LIST) Qualification of Key Personnel Proposed to be Assigned to the Contract

Business Name: _____

Business Address: _____

		Project Manager/Engineer	Materials Engineer	Foreman	Construction Safety and Health Personnel	Other positions deemed required by the Applicant for the project
1	Name					
2	Address					
3	Date of Birth					
4	Employed since					
5	Experience					
6	Previous Employment					
7	Education					
8	PRC Licence					

Minimum Requirements : Project Manager/Engineer
: Materials Engineer
: Foreman
: Foreman

Note : Attached individual resume and PRC License of the (professional) personnel

Submitted by : _____
(Printed Name and Signature)

Designation : _____

Date : _____

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel signed written commitment to work for the project once awarded the contract).

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1
NAME OF PROCURING ENTITY

Contract Reference Number
Name of the Contract
Location of the Contract

1. Name : _____
2. Name and Address of Owner : _____
3. Name and Address of the
Owner's Engineer
(Consultant) : _____
- 3-4. Indicate the Features of Project
(particulars of the project
Components and any other particular
Interest connected with the project): _____
5. Contract Amount Expressed in
Philippine currency : _____
6. Position : _____
7. Structures for which the employee
was responsible : _____
8. Assignment Period : from _____ (months)
: to _____ (months)

Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

(Place and Date)

(The Authorized Representative)

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel signed written commitment to work for the project once awarded the contract). _____ **SF-INFR-47b**

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1
NAME OF PROCURING ENTITY

Contract Reference Number
Name of the Contract
Location of the Contract

Standard Form Number: SF-INFR-47
Revised on: August 11, 2004

KEY PERSONNEL
(FORMAT OF BIO-DATA)

Give the detailed information of the following personnel who are to be assigned as full-time field staff for the project. Fill up a form for each person.

- Authorized Managing Officer/Representative
- Sustained Technical Employee

1. Name : _____
2. Date of Birth : _____
3. Nationality : _____
4. Education and Degrees : _____
5. Specialty : _____
6. Registration : _____
7. Length of service with the Firm : _____
8. Years of Experience : _____

9. If item 7 is less than ten (10) years, give name and length of service with previous employers for a ten (10)-year period (attach additional sheet/s), if necessary:

<u>Name and Address of employer</u>	<u>Length of Service</u>
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____

10. Experience:

This should cover the past ten (10) years of experience. (Attach as many pages as necessary to show involvement of personnel in projects using the format below).

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel signed written commitment to work for the project once awarded the contract). SF-INFR-47a

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1
NAME OF PROCURING ENTITY

Contract Reference Number
Name of the Contract
Location of the Contract

Standard Form Number: SF-INFR-46
Revised on: August 11, 2004

Key Personnel's Certificate of Employment

Issuance Date

DIR. NESTOR

Position of the Head of the Procuring Entity

DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1

CITY OF SAN FERNANDO, LA UNION

Dear Sir/Madame:

I am (Name of Nominee) a Licensed _____ Engineer with Professional License No. _____ issued on (Date of Issuance) at (place of issuance).

I hereby certify that (Name of Bidder) has engaged my services as (designation) for (name of the Contract), if awarded to it.

As (designation), I supervised the following completed projects similar to the contract under bidding:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At present, I am supervising the following projects:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

In case of my separation for any reason whatsoever from the above-mentioned contractor, I shall notify the (Name of the Procuring Entity) at least twenty one (21) days before the effective date of my separation.

As (Designation), I know I will have to stay in the job site all the time to supervise and manage the Contract works to the best of my ability, and aware that I am authorized to handle only one (1) contract at a time.

I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of (Designation) thereof, if the contract is awarded to him since I understand that to do so will be

a sufficient ground for my disqualification as (Designation) in any future ____ (*Name of the Procuring Entity*) bidding or employment with any Contractor doing business with the *Name of the Procuring Entity*_____.

(Signature of Engineer)

DRY SEAL

Republic of the Philippines)
_____) S.S.

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 2022 affiant exhibiting to me his/her Residence Certificate No. _____ issued on _____ at _____.

Notary Public
Until December 31, 20____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel signed written commitment to work for the project once awarded the contract).*_____ SF-INFR-46a

Standard Form Number: SF-INFR-49

Revised on August 11, 2004

LIST OF EQUIPMENT, OWNED OF LEASED and/or under PURCHASE AGREEMENT, PLEDGED TO THE PROPOSED PROJECT

Business Name : _____

Business Address : _____

Description	Model/Year	Capacity/ Performance/ Size	Plate No.	Motor No./ Body No.	Location	Condition	Proof of Ownership/ Lessor or Vendor

List of minimum equipment required for the project

Submitted by : _____

(Print name and affix signature)

Designation : _____

Date : _____

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the

Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of ____, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

Summary of the Applicant Supplier's/Distributor's assets and liabilities on the basis of the attached Income Tax Return and Audited Financial Statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent for the immediately preceding year.

		Year 20__
1	Total Assets	
2	Current Assets	
3	Total Liabilities	
4	Current Liabilities	
5	Net Worth (1-3)	
6	Net Working Capital (2-4)	

The Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, based on the above data is calculated as follows:

NFCC = [(Current asset minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started

Or,

If the prospective bidder opts to submit a Committed Line of Credit (CLC), it must be at least equal to ten percent (10%) of the ABC to be bid and shall be confirmed or authenticated by a local universal or commercial bank.

Name of Bank _____ Amount _____

Herewith attached are certified true copies of the Income Tax Return and Audited Financial Statement Stamped "RECEIVED" by the BIR authorized collecting agent for the immediately preceding year.

Submitted by:

Name of Supplier/Distributor/Manufacturer

Printed Name and Signature of Authorized Representative

Date:

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date: _____

Project Identification No.: _____

To: **DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1**
City of San Fernando, La Union

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹² for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the *[Name of Project]* of the *[Name of the Procuring Entity]*.
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____



Republic of the Philippines
DEPARTMENT OF AGRICULTURE
 Regional Field Office No. 1
 Aguila Road, Sevilla, San Fernando City, La Union
 Tel. Nos.: 888-43-05; 888-31-79; 888-2045
 888-0341; 242-10-45 to 10-46

SCOPE OF WORK AND SPECIFICATIONS

PROJECT NAME: Establishment of Greenhouse with Hydroponics and Sprinkler System Under NUPAP
LOCATION: Brgy. Cabaroan Daya, Vigan City, Ilocos Sur
PROJECT DESCRIPTION: Construction of a greenhouse featuring hydroponics and a sprinkler system. The area dimensions total 120 square meters (8m x 15m) with 4.5 height.
AMOUNT: PHP. 1,000,000.00

GENERAL PROVISIONS

The contractor/implementer of the project shall verify all dimensions and conditions of the site and shall notify the DA Project Engineer for any discrepancies between actual conditions and information shown in the drawing before proceeding with the work.

The structural drawings and specifications represent the general framework of the structure. They do not indicate methods of construction, unless so stated, the contractor/implementer shall provide all necessary measures to protect the structure, the contractor/ implementer's obligation to notify the DA Project Engineer of any conditions that may endanger the stability or cause distress in the structure during phases of construction.

This set of specifications shall govern the methods of construction and kinds of materials to be used for the proposed Project shown on the accompanying plans and detailed drawings.

All parts of the construction shall be finished with first class workmanship to the fullest talent and meaning of plans and the specifications, and to the satisfaction of the Department of Agriculture through its Project Engineer. Any defective material or poor workmanship should be replaced or improved by the contractor without additional cost to the owner.

All other materials specifically indicated and illustrated on plans shall be taken as part of this specification regardless whether or not written and such other materials shall be approved by the owner before they are set in place.

DESCRIPTION

I. MOBILIZATION AND DEMOBILIZATION

- Access road shall be as shown on the drawings. If alternate routes are obtained by the contractor, they must be approved by the municipal engineer or the project engineer before use.
- Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal and site clean-up, of offices, buildings and other facilities assembled on the site specifically for this contract.
- This work includes mobilization and demobilization required by the contract at the time of award. If additional mobilization and demobilization activities and costs are required during the performance of the contract as a result of changed, deleted, or added items of work for

which the Contractor is entitled to an adjustment in contract price, compensation for such costs will be included in the price adjustment for the item or items of work changed or added.	
II. CONSTRUCTION OF TEMPORARY FACILITY	
<ul style="list-style-type: none"> • The contractor shall install/construct temporary facilities and/or rent a vacant house to expeditiously execute the work and shall remove them from the site when no longer required. • The contractor shall obtain temporary and maintain in good condition a supply of potable water for construction use. • The contractor shall install temporary electric services with sufficient capacity to supply proper current for various types of construction tools, motors, welding machines, pumps, testing, and other work required. 	
III. PROVISION OF SAFETY AND HEALTH	
<ul style="list-style-type: none"> • Building premises shall have adequate fire, emergency or danger sign and safety instructions of standard colors and sizes visible at all times. • Other visible signs that may be needed to direct the driver of motorized vehicle such as STOP, YIELD, and DO NOT ENTER, properly positioned within the compound of the establishment shall be used to increase safety especially during the night. • Good housekeeping shall be maintained at all times through cleanliness of building, yards, machines, equipment, regular waste disposal, and orderly arrangement of processes, operations, storage and filing of materials. • All buildings, permanent or temporary shall be structurally safe and sound to prevent their collapse. • The contractor shall, at his own expense furnish his workers with protective equipment for the eyes, face, hands and feet, protective shields and barriers whenever necessary by reason of the hazardous nature of the process or environment, chemical or radiological or other mechanical irritants or hazards capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact. • Deduction for the loss or damage of personal protective equipment shall be governed by Article 114, Book III, Labor Code of the Philippines, and Section 14, Rule VIII, Book III, Omnibus Rules Implementing the Labor Code. • At every construction site there shall be organized and maintained a Healthy and Safety Committee conforming with the rules of OSH. • In the application of this Rule, the construction, steps, and arrangement of materials used may vary provided that the strength of the structure is at least equal to that herein prescribed. • Fire Protection equipment shall be provided in accordance with the requirements. • The Contractor should comply with the latest Occupational Safety and Health Standards by the Department of Labor and Employment. • Any work done beyond the height of 3m, the worker should wear a full body harness suspended on a solid anchor and to a life line. 	
IV. CLEARING AND GRUBBING	
<ul style="list-style-type: none"> • The site shall be leveled as according to the plans, and cleared of rubbish, roots and other perishable and objectionable matters to a suitable sub-grade. All such unsuitable materials shall be removed from the site or otherwise disposed of as may be directed by the Project Engineer in charge of the construction. 	
V. STRUCTURAL EXCAVATION	
EXCAVATION	
<ul style="list-style-type: none"> • Stumps remaining from clearing operations shall be cut flush or removed as directed by the Owner. All stump holes shall be filled and the area rough graded. All debris shall be disposed of as specified in Paragraph 4 of Specification CAR-SH-CH-3 "Clearing and Grubbing." Burying of debris shall not be permitted within 1000ft of the area grubbed. 	

- During the course of all excavation work located in areas beyond the clearing and grubbing lines shown on the drawings, extreme care shall be exercised by the Contractor to preserve and avoid damage to trees, shrubs and all other vegetation which does not directly hamper work progress. The Contractor's plans for the dimensions and routes of required access roads shall be subject to the approval of the End-user.
- Adequate barricades shall be erected and maintained around excavations where required for safety.
- Unclassified excavation shall consist of the removal, storage and/or disposal of all materials required to be removed such as topsoil, clay, sand, gravel, rock fragments, boulders, soft and disintegrated rock or any other material that can be effectively removed.
- It is likely that fissures, cracks, joints, cavities, overhangs, or other irregularities in the rock surface may be encountered that will require excavation in excess of the foundation lines and grade initially shown on the drawings or specified. The right is reserved by the Owner to vary the depth, width and length of excavation and to increase or decrease the slopes of the excavations for the purpose of obtaining the most stable or economical foundation or the most desirable final result. The right is also reserved by the End-user to require that the additional excavation be performed after excavation has been commenced or has been completed to the lines and/or grades shown on the drawings, previously specified, ordered, or staked on the ground.

BACKFILL

- Backfill material around masonry structures shall not be placed until released by the End-user after consideration of curing and strength requirements for the concrete.
- Care shall be taken to place backfill symmetrically, and in uniform layers, to prevent harmful eccentric loading on a structure or foundation.
- Unless otherwise specified or directed by the End-user, heavy hauling or compacting equipment shall be permitted no closer than three feet to any structure or foundation during backfilling. In all areas closer than three feet, or where workspace is limited, portable equipment such as vibratory plates, rammers, or pneumatic tampers shall be used. The equipment and procedures used shall be subject to the approval of the Owner.

VI. MASONRY WORKS (Including Plastering)

- All hollow blocks are contemplated herein shall be of good quality and readily available in the locality.
- The cells of the concrete hollow blocks to be laid shall be filled with 1:3 cement mortars (1 part Portland cement and three parts sand, by volume). They shall be reinforcing with 10mm diameter horizontal deformed bars every three blocks and 10mm diameter vertical bars deformed bars at 800mm O.C. Unless specified on the elevation drawing, the cement plaster mixture for masonry walls shall be 1:3 (1 part cement, and 3 parts sand, by volume).

Minimum Compressive Strength of Concrete Hollow Blocks is as follows:

Class A	900 psi
Class B	750 psi

- Held in place by horizontal and vertical reinforcing and interior surfaces of hollow blocks shall be thoroughly soaked with water before laying. Hold all units in storage for a period not less than 28 days (including curing period) and do not deliver prior to that time unless strength and other tests indicate compliance with specification.
- Mortar aggregates shall be natural river sand, clean and free from soluble salts and organic matter, graded from fine to coarse, compatible with the thickness of joints in which used. Mix mortar from three to five minutes in such quantities as are needed for immediate use.

No re tempering will be permitted if mortar stiffens because of premature setting. Discard such materials as well as those which have not been used within one hour after mixing.

- Lay units in common bond with uniform causing and jointing. All concrete block jointing shall be of uniform thickness. Butler vertical and horizontal jointing full with mortar. Bond course and corners and intersections and tie to abutting walls. Do not lay cracked, broken or deface blocks. Cut edges shall be clean and sharp. The FIRST row of block shall be properly and thoroughly anchored to the concrete columns, walls of slabs. Course shall be laid straight and well plumbed.

PLASTERING

- Plastering is the finishing coat which protects the masonry and gives a decent look. It also enhance the hygienic condition in the building.
- Cement and sand mortar are used in plastering with different thickness according to the requirements in accordance the drawing design.
- Use Portland cement and Sand 20mm thick. Mixture is [1:3] and plastering of the exterior and interior walls as per the requirements of the work.
- The plaster should be in straight line levelled, plumbed and the join must be in right angle.
- Before starting the plaster, the surface should be raked and properly cleaned by wire brush and it should be wet for 24 hours.
- Door and window frames, water supply lines and electric fittings shall be fitted appropriately before starting the plastering work.
- All unnecessary cement mortar shall be removed from the frames and electric fittings instantly after finishing the plaster.
- It shall be cured the plaster surface properly and cured at least for 7 days to get desired strength.

VII. RSB WORKS

- All reinforcement shall be placed in accordance with plans furnished by the Engineer. In case of any doubt or ambiguity in placing of steel, the Contractor shall consult the Engineer whose decision shall be final in such cases.
- Steel reinforcing bars to be used for this project shall consist of standard deformed structural bars meeting ASTM specifications. All reinforcement shall be placed in accordance with plans furnished by the Engineer.
- All reinforcing steel bars used shall be new and free from rust, oil, defects, grease or links. All loose rust or scale, adhering materials and all oil or either material which tend to destroy bond between the concrete and the reinforcement shall be removed before placing the steel and before concreting begins.
- Metal reinforcement shall be accurately placed and adequately secured by concrete or metal chair spacers. The minimum distance between the parallel bars shall be one and one-half times the diameter for round bars and twice the side dimensions for square bars. In no case shall the clear distance between bars shall be less one or more than one and one-third times the minimum size of the coarse aggregates. Where bars are used in two or more layers, the bars in the upper layers at distance of not less than one inch.
- All steel reinforcing bars shall be accurately placed and secured against displacement by tying them together at each bar intersection with Gauge No. 16 galvanized iron wire.
- All main reinforcing steel used in the structure shall conform to ASTM Grade 40 (Intermediate Grade) with yield strength of 40 ksi (276 MPa).
- All temperature bars shall conform to ASTM Grade 30 Structural Grade with minimum yield strength of 30 ksi (207 MPa).
- Always apply red oxide for the exposed RSB to eliminate rusting.
- All hooks shall be in accordance with all standard hooks and anchorages specified in ACI 318-83 Building Code.

VIII. GRAVEL BEDDING

- This item shall consist of furnishing, placing and compacting a gravel fill/bedding on a prepared subgrade for foundation of greenhouse structure in accordance with the plans and specifications or as directed by the Project Engineer.
- Gravel fill/bedding shall consist of crushed, partially crushed, or naturally occurring granular material. The abrasion loss as determined by AASHTO T96, Standard method test for resistance to degradation of small-size coarse aggregate by abrasion and impact.
- The bedding material shall be G1 gravel.
- The thickness of gravel bedding for foundation of greenhouse structures shall be 50mm thick.

IX. CONCRETE WORKS (Class A) w/ FORMS

- This section covers all the materials as cement, aggregates, water, admixtures and proportioning, mixing, transporting, placing, finishing, curing and protecting of concrete, including supplies, equipment, tools and all other incidentals necessary for concrete works.
- All the applicable provisions of the latest revision of the ACI Building Code (ACI- 318 -85) and American Society for Testing Materials (ASTM) shall govern in all cases not specifically provided for herein.
- All cement requirements of concrete works for the contract shall contractor-furnished. The cement shall conform to the requirements of the standard specification of Portland Cement (ASTM: C150 Type 1).

Materials

- Fine aggregates shall be clean, well-graded, hard, natural sand or manufactured sand or a combination of both. The minimum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between forms and not larger than three-fourths (3/4) of the minimum clear spacing between reinforcing bars, and in no case larger than two inches in diameter. Coarse aggregates shall be hard, durable, uncoated gravel, crushed gravel, free from any deleterious materials like alkali, loam, silt and any organic matter.
- Water used in making the concrete mass shall reasonably clean, potable, and free from injurious number of oils, acids, alkali organic materials and other deleterious substances.

Mixing of concrete

- All concrete shall be machine-mixed for at least one and one-half minutes after all materials, including water, are in the mixing drum.
- The mixer shall be approved size and type which will ensure a uniform distribution of materials throughout the mass. It shall be equipped with a device for accurately measuring and controlling the amount of water in each batch.
- The first batch of concrete materials placed in the mixer shall contain a sufficient excess of cement, sand and water to coat inside of the drum without reducing the cement content of the mix to be discharged.

Specified Compressive Strength

Class	Psi	MPa
AA	4,000	27.57
A	3,000	20.68
B	2,500	17.23
C	2,000	13.78

- Class AA: For septic tanks and other work as indicated. (Not indicated in the plan).
- Class A: For slabs, beams, and wall above grade, columns and for all reinforced work not otherwise indicated or specified.
- Class B: For slabs on grade, and the beams, footings and for such concrete work as indicated or specified.

- Class C: For all concrete not reinforce except as otherwise indicated or specified. (Not indicated in the plan).

Conveying and Placing of Concrete

- Concrete shall be conveyed from mixer to form as rapidly as practicable. There will be no vertical drop greater than 1.50 meters except where suitable equipment is provided to prevent segregation and where specifically authorized by the Architect and or the Structural Engineer.
- Concrete shall be worked readily into the corners and angles of the forms and around all reinforcements and embedded items without permitting materials to segregate. Concrete shall be deposited as close as possible to its final position so that flow within the mass does not exceed two meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere is directed, the discharge shall be so controlled that the concrete may be effectively connected into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.

Curing

- Compressive strength of concrete at 28 days curing period shall attain 3000 psi (20.7 MPa) with well graded aggregates having a maximum size of 2 inches (50mm).

Form Works

- Provide forms that will produce correctly aligned concrete. Column forms shall be checked for plumpness before concrete is deposited. Hand holes shall be provided in column forms at lowest points of pour lifts to render this space accessible for cleaning.
- Joints in forms shall be horizontal or vertical. Lumber once used in forms shall be nailed withdrawn and surfaces to be in contact with concrete shall be thoroughly wetted with water in advance of pouring. Woods to be used shall be kiln dried and treated with anti-termite chemical. And all lumber surfaces in contact with concrete and masonry shall receive one brush of bituminous paint.
- Immediately after the removal of the form, all projecting wires and bolts and other devices used for holding forms shall be cut off at least one-half centimeter beneath the finished surfaces. All holes and defects shall be thoroughly wetted and then painted up solid with cement putty mortar of the same proportions as the mortar used in the body of the work. All parts protruding beyond the surfacing shall be treated in such manner as to effectively remove all the lines and marks impressed by the form works.
- Forms shall be removed in a manner which will prevent damage to the concrete and shall not be removed until the concrete has attained sufficient strength to support its own weight and any loads that may be placed on it. Side forms of beams and girders may be removed earlier than the bottom forms but additional posts or shoring must be placed under the beams or girders until they have attained their strength. Forms shall not be removed until approval of the Design Engineer. Any repair of surface imperfections shall be performed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.
- Use Phenolic Board and Good Lumber

X. GREENHOUSE STRUCTURE (Installation with complete accessories)

- This item shall consist of fabricating, furnishing, placing, erection and installing the galvanized iron (G.I) pipe and frame cover of the greenhouse roofing and siding in accordance with the plans and specifications or as directed by the Project Engineer.
- The structural frame of the greenhouse shall be galvanized iron (G.I) pipe schedule 40 with diameter of 1 ½"; 1" and ½" as indicated in the plan. The materials be used shall meet the requirements specified in one of the following; ASTM A53, AASHTO M36 or M218.
- The roofing cover of the greenhouse shall be made up with UV plastic film 200microns strapped of tension cable strap, and sidings of the greenhouse shall be covered using

	<p>Superfine net 24mesh secured with aluminum lock channel and zigzag lock wire. The roof and siding cover shall be installed in accordance with the approved project plans.</p> <ul style="list-style-type: none"> The double swing door of the greenhouse shall be covered of superfine net secured with screwed plastic clip, with a ½" cylindrical hinge and set of door lock with padlock and handle. 												
XI.	<p>PAINTING WORKS (Masonry and Metal Painting)</p> <ul style="list-style-type: none"> This work includes interior and exterior painting and varnishing and finishing of all items as required to produce a finished painting job throughout all of the areas affected by work under this contract, except items which are specifically excluded. Prepare masonry surface to be painted by removing all dirt, dust, oil and grease stains and efflorescence. The method of surface preparation shall be left to the discretion of the Contractor, provided that, the results are satisfactory to the Architect. Masonry surfaces to be painted shall be free from alkali and thoroughly dry before paint is applied. Wash all metal surfaces with mineral spirits or detergent to remove any dirt or grease before applying materials. Where rust or scale is present, clean by wire brush or sandpaper before painting. Where shop coats of paint have become marred, clean and touch up with rust inhibitive primer. Treat all galvanized metal surfaces with a compound designed for this purpose, or approved acid solution before applying the first coat paint. Paints shall be thoroughly stirred so as to have the pigment evenly in suspension while paint is applied. In general, and unless otherwise specified, and/or instructed by the Project Engineer due to actual conditions on the job, no less than 24 hours' time shall elapse between application of succeeding coats. Each coat of paint shall be allowed to dry thoroughly and inspected for approval before the succeeding coat is applied. Spray gun application shall be used wherever specified. 												
XII.	<p>A-FRAME HYDROPONICS SYSTEM INSTALLATION (NFT Channel; NFT Connector; NFT End Cap with sprout; NFT hydroponic channel hydraulic pipe clamp; NFT Plastic basket pot; PVC pipe & fittings; Reservoir 1000 li; 70W submersible pump; G.I tubular; Digital Timer and other accessories)</p> <ul style="list-style-type: none"> The A-frame hydroponic structure assembly shall be made of 1"x1"x1mm thick galvanized iron (G.I) tubular, NFT and polyethylene (P.E) pipe. All metal member of the A-frame stand of the hydroponics shall be painted of galvanized metal paint. Nutrient film technique (NFT) channel with end cap and sprout, NFT connector, and NFT hydraulic pipe clamp secured shall be used for the hydroponics system with a dimension of 100mm x 55mm. It shall be installed in accordance with the approved plans. The followings are the material be used for the supply and discharge assembly of the hydroponics system. And it shall be installed in accordance with approved plans. <table> <tr> <td>PVC pipe 1"</td><td>Teflon</td></tr> <tr> <td>PVC pipe ¾"</td><td>NFT Plastic Planting Basket Pot 2" dia. outside</td></tr> <tr> <td>PVC Solvent</td><td>1000 li reservoir/water tank</td></tr> <tr> <td>PVC Elbow threaded ¾"</td><td>70W submersible pump</td></tr> <tr> <td>PVC Tee Connector Threaded ¾"</td><td>Digital Timer</td></tr> <tr> <td>Male Threaded Maxi valve ¾"</td><td>Vulcaseal</td></tr> </table> The contractor shall provide the following hydroponics inputs as inclusion of the hydroponics system. <ul style="list-style-type: none"> Hydroponics Nutrients/solutions, Coco pit Leafy vegetable seeds Horticultural foams 	PVC pipe 1"	Teflon	PVC pipe ¾"	NFT Plastic Planting Basket Pot 2" dia. outside	PVC Solvent	1000 li reservoir/water tank	PVC Elbow threaded ¾"	70W submersible pump	PVC Tee Connector Threaded ¾"	Digital Timer	Male Threaded Maxi valve ¾"	Vulcaseal
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Male Threaded Maxi valve ¾"	Vulcaseal												

XIII. NURSERY BENCH WITH SPRINKLER SYSTEM INSTALLATION (Nursery bench; Sprinkler system w/ fittings; 1hp booster water pump w/ accessories; and water tank w/ complete fittings and accessories)																	
<ul style="list-style-type: none"> This item shall consist of furnishing and installation of the nursery seedling bench, sprinkler system or head control system with the water storage tank and booster water pump. The installation of the following materials shall be in accordance with the approved plans. <table> <tr> <td>G.I tubular 1"x1"x1mm thick</td><td>Sprinkler PE tube, ¾" diameter</td></tr> <tr> <td>Flat bar 2"x3mm thick</td><td>¾" Electric valve</td></tr> <tr> <td>Wire mesh 2"x2"x3mm diameter wire</td><td>Sprinkler 9.2 gph 12" tube length w/ Nozzle & check valve</td></tr> <tr> <td>Angle bar 2"x2"x4mm thick</td><td>¾" Pressure regulator, 35 psi</td></tr> <tr> <td>Text screw</td><td>¾" Disc filter, 120mesh 140 psi max.</td></tr> <tr> <td>Booster pump 70W, 1"dia. Inlet and outlet</td><td>Complete fittings and accessories</td></tr> <tr> <td>2000 li PE water storage tank</td><td></td></tr> <tr> <td>Clamp Saddle clip</td><td></td></tr> </table> 		G.I tubular 1"x1"x1mm thick	Sprinkler PE tube, ¾" diameter	Flat bar 2"x3mm thick	¾" Electric valve	Wire mesh 2"x2"x3mm diameter wire	Sprinkler 9.2 gph 12" tube length w/ Nozzle & check valve	Angle bar 2"x2"x4mm thick	¾" Pressure regulator, 35 psi	Text screw	¾" Disc filter, 120mesh 140 psi max.	Booster pump 70W, 1"dia. Inlet and outlet	Complete fittings and accessories	2000 li PE water storage tank		Clamp Saddle clip	
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XIV. ELECTRICAL WORKS																	
<ul style="list-style-type: none"> All electrical works shall be done in accordance with the provisions of the latest Philippine National Code, rules and regulations of the electrical ordinance of the municipality and safety standards. Ensure safe installation of all electrical aspects and procedures by the licensed electrician. The installer shall install all materials as indicated in the drawing plans and the necessary circuit protection. 																	
XV. PROJECT MARKER																	
<ul style="list-style-type: none"> Installation of the project marker shall be constructed as shown on the detailed plans. Printed project details shall be used for the letterings and logo into outdoor sticker and pasted in Sintra board. 																	

The above specifications are intended for the Establishment of Greenhouse with Hydroponics and Sprinkler System under NUPAP located at Brgy. Cabaroan Daya, Vigan City, Ilocos Sur

Prepared by:

ROLANDO J. CADAWAS, ABE
Engineer ✓

Concurred by:

MARK HARRY G. PASTOR, ABE
Chief, RAED ✓



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD OFFICE NO. 1
Aguila Road, Sevilla, City of San Fernando, La Union

PLANS-SSIP/FMR/PHF-OTHERS - 20__ - ____

NAME OF PROJECT: ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS
AND SPRINKLER SYSTEM UNDER NUPAP
LOCATION: BRGY. CABARAOAN DAYA, VIGAN CITY, ILOCOS SUR

COORDINATES:
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E 120.4091915°

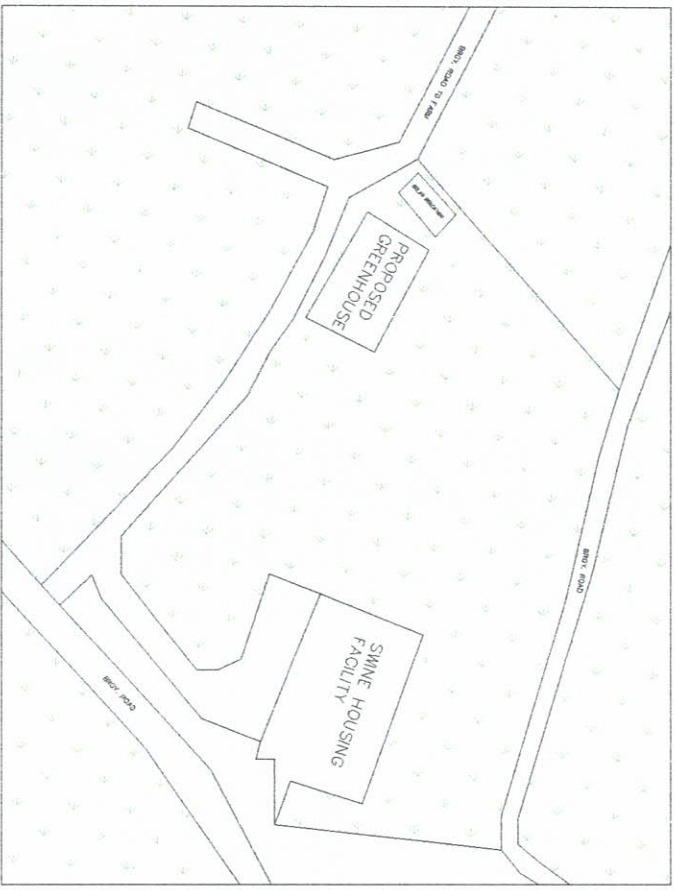
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MAIN PROJECT FEATURES	
1. PROJECT FACILITIES COMPONENT	DIMENSION
A. GREENHOUSE	8M X15M
B. SPRINKLER	26 SPRINKLERS
C. NURSERY BENCH	2 UNITS
D. A-FRAME HYDROPONICS SYSTEM	2 UNITS
E. WATER STORAGE TANK WITH 1HP BOOSTER PUMP	1 UNIT
D. HYDROPONICS WATER RESERVOIR WITH 70W SUBMERSIBLE PUMP & DIGITAL TIMER	1 UNIT

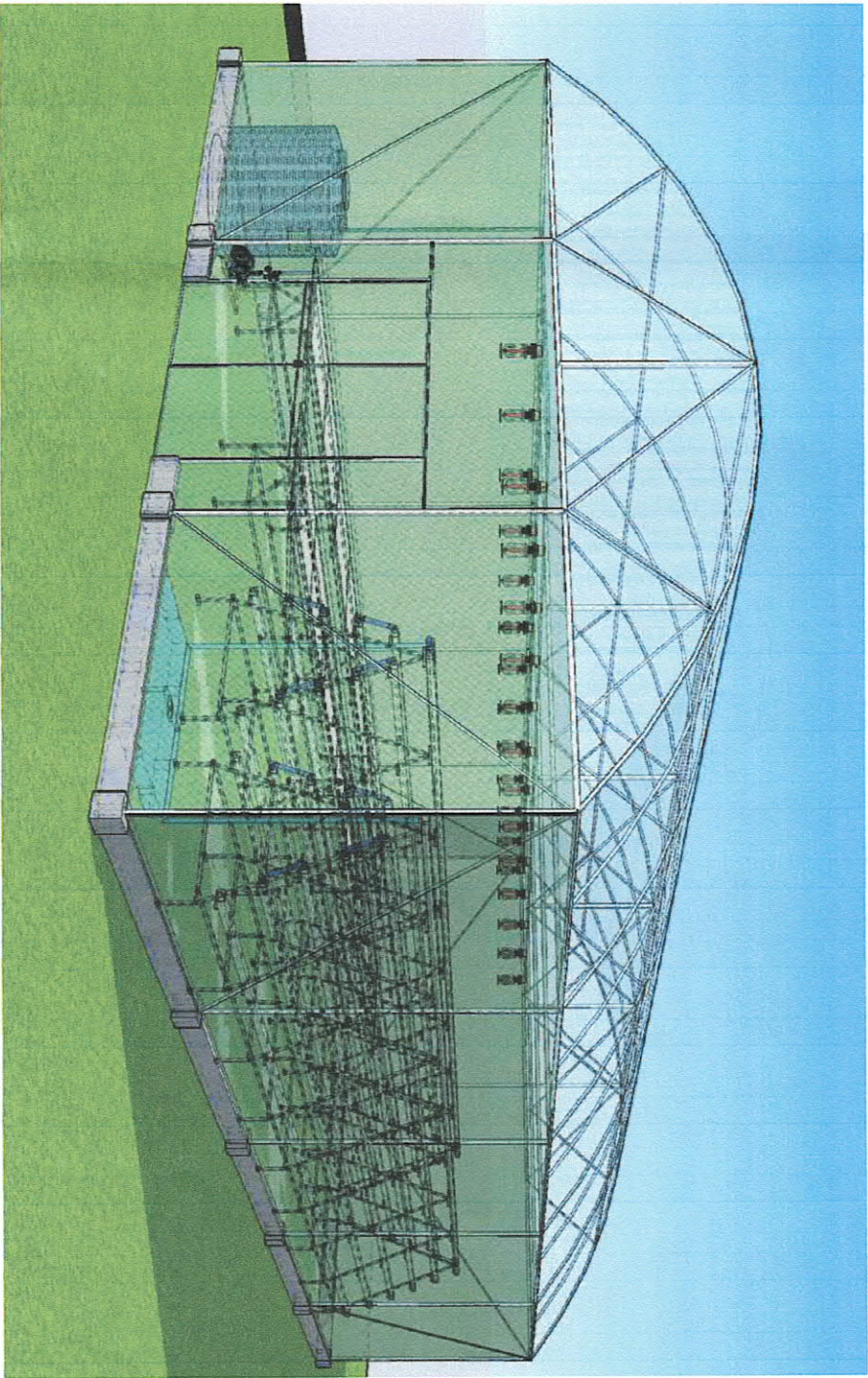
PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1 AGUILA ROAD, SEVILLA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP Location: Brgy. Cabaraoan Daya, Vigan City, Ilocos Sur	ROLANDO CADAWAS, ABE ENGINEER I	MARK HARRY S. PASTOR, ABE CHIEF, ROAD	DETERA TRACY ABE RTD FOR OPERATIONS	JOHN B. PASUAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	1 13



LOCINITY MAP

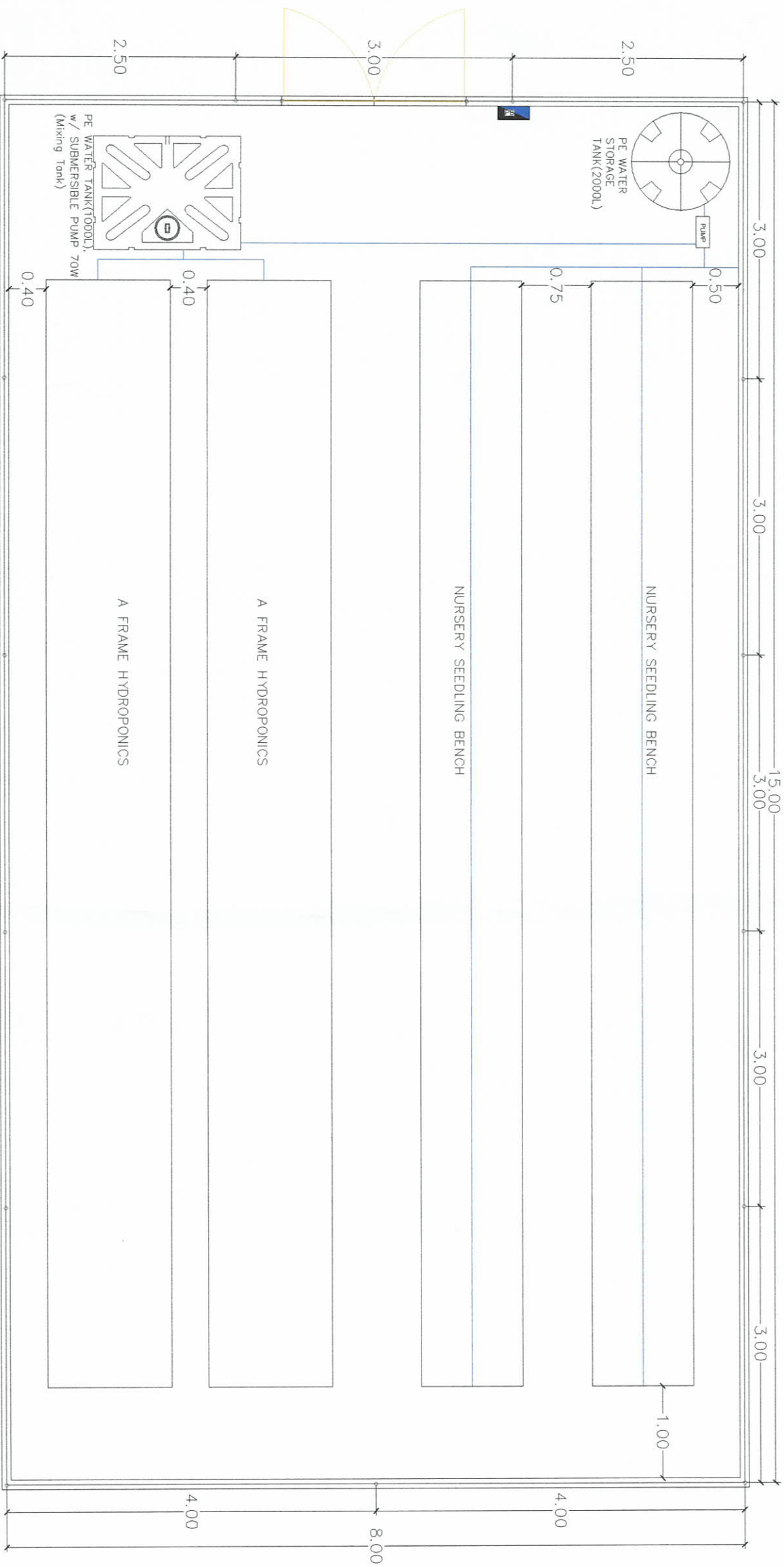


FARM DEVELOPMENT PLAN




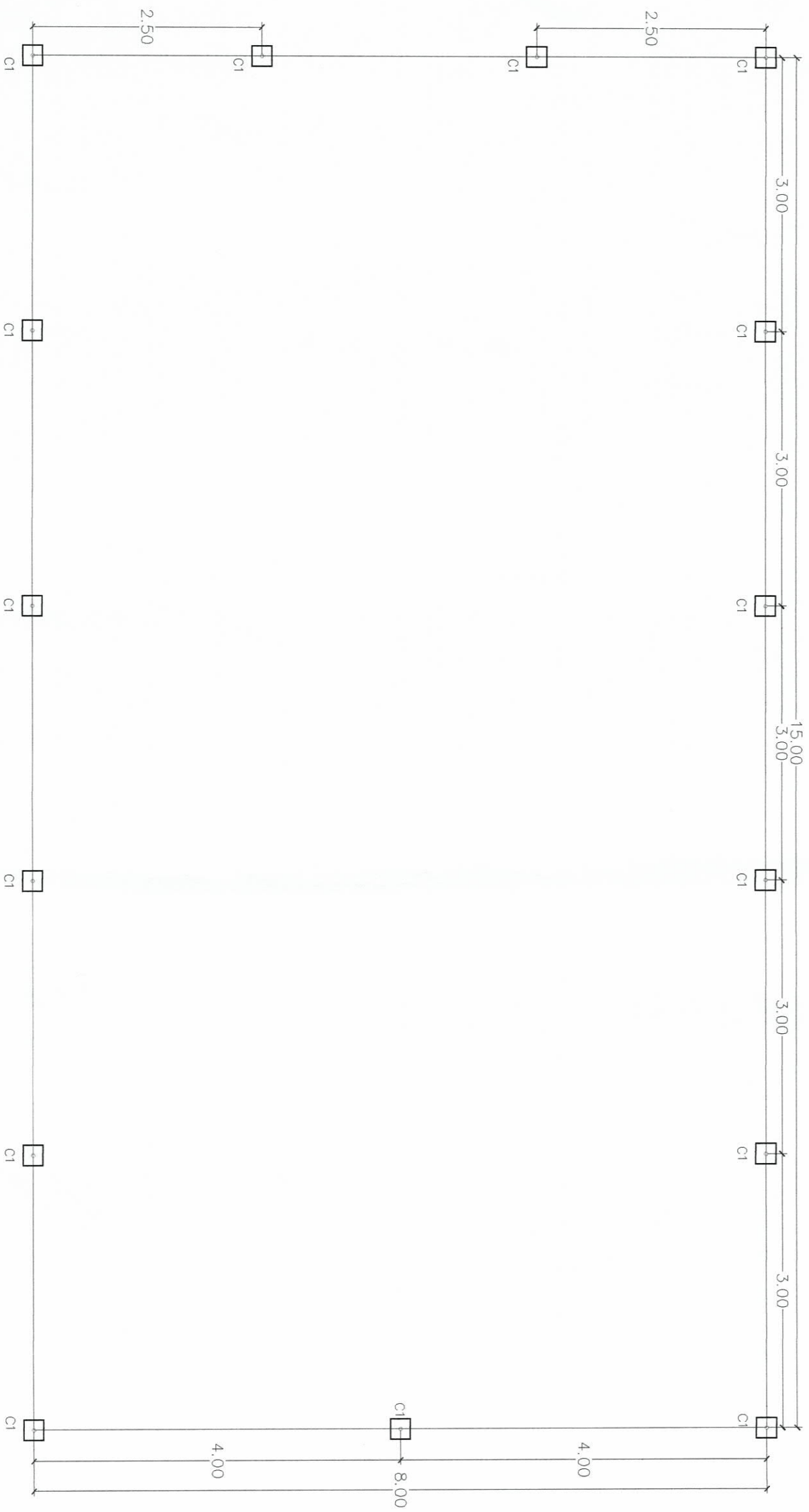
PERSPECTIVE

DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES REGIONAL FIELD OFFICE 1 AGILA ROAD, BRILLIA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	PREPARED BY:	ROLANDO A. CADAVAS, ABE ENGINEER I	CHECKED & REVIEWED BY:	MARK HARRY G. PASTOR, ABE CHIEF, RAED	RECOMMENDING APPROVAL:	BENJAMIN I. TACAYAC, ABE CHIEF, OPERATIONS	APPROVED:	JOHN B. PASUAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	SHEET CONTENTS: AS SHOWN	SHEET NO.: 2 13
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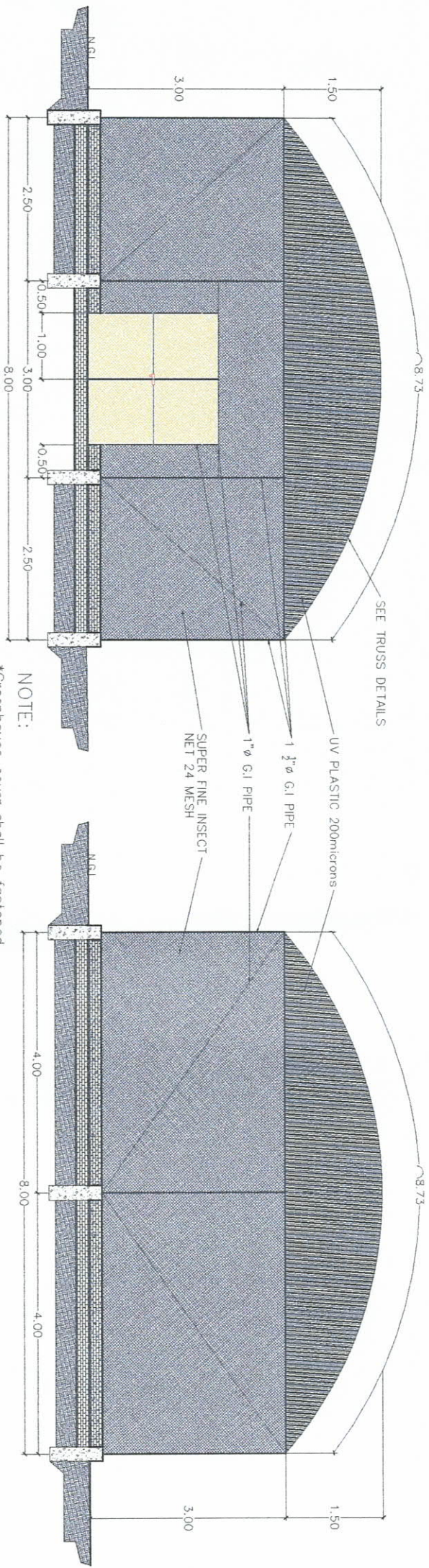
FLOOR PLAN
Scale 1:50

 DEPARTMENT OF AGRICULTURE REGIONAL OFFICE 1 AGILA ROAD, SEMILAR, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
		ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO J. CADAWAS, ABE ENGINEER I	MARK HARRY S. PASTOR, ABE CHIEF, RAED	BENJAMIN T. TACTAC, ABE RTD TOP OPERATIONS	JOHN B. PASCUAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	



FOUNDATION PLAN
Scale 1:50

 DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO J. CADAWAS, ABE ENGINEER I	MARK HARRY G. PASTOR, ABE CHIEF, RAED	DERMIS I. TAYAC, ABE RTD FOR OPERATIONS	JOHN B. PASIGAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	4 13	

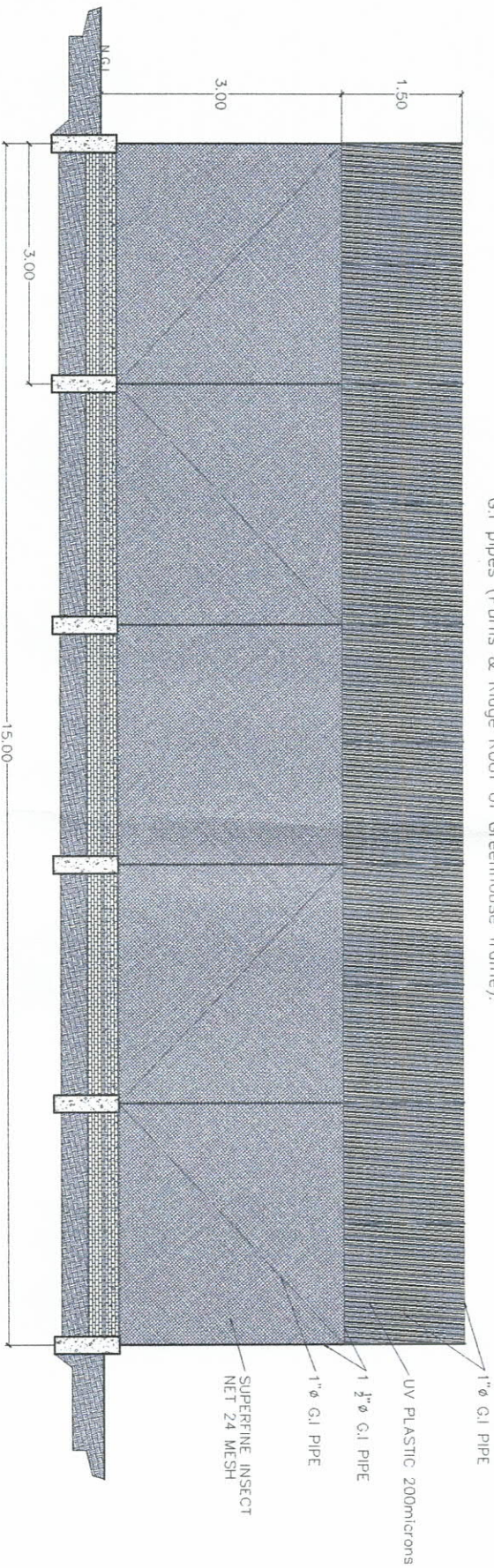


FRONT VIEW

REAR VIEW

NOTE:

- *Greenhouse cover shall be fastened of Aluminum Lock Channe w/ zigzag wire
- *Aluminum lock channel shall be fastened with text screw on side of G.I Pipe
- *Greenhouse Frame connectivity (Post to Roof, Arch Truss Braces, & Post Braces) shall fully weld.
- *All metal parts use for the Greenhouse shall be painted of anti corrosive metal paint.
- *Use cross connector w/ nuts & bolts in fastening two perpendicular G.I pipes (Purils & Ridge Roof of Greenhouse frame).



SIDE VIEW

PREPARED FROM THE OFFICE OF THE:

PROJECT TITLE:

PREPARED BY:

CHECKED & REVIEWED BY:

RECOMMENDING APPROVAL:

APPROVED:

SHEET CONTENTS:

SHEET NO.:



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD OFFICE 1
AGRIPO BOX 1, SAN FERNANDO CITY, LA UNION
REGIONAL AGRICULTURAL ENGINEERING DIVISION

ESTABLISHMENT OF GREENHOUSE
WITH HYDROPONICS AND SPRINKLER
SYSTEM UNDER NUPAP

Location: Day, Calauran Day, Vigan City, Ilocos Sur

ROLANDO J. CADAWAS, ABE
ENGINEER I

MARK HARRY G. PASTOR, ABE
CHIEF, RAED

DEMMIS I. TACTAC, ABE
PRD FOR OPERATIONS

JOHN B. PASCUAL, DVM
OIC, REGIONAL EXECUTIVE DIRECTOR

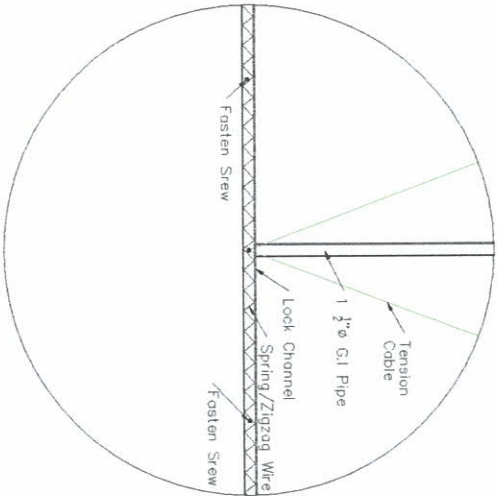
AS SHOWN

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13

See Details "B"

LEGEND:

- Tension Cable /Wind Strap
- Hoop Truss,
- 1 1/2" Ø G.I Pipe
- Purlins,
- 1" Ø G.I Pipe



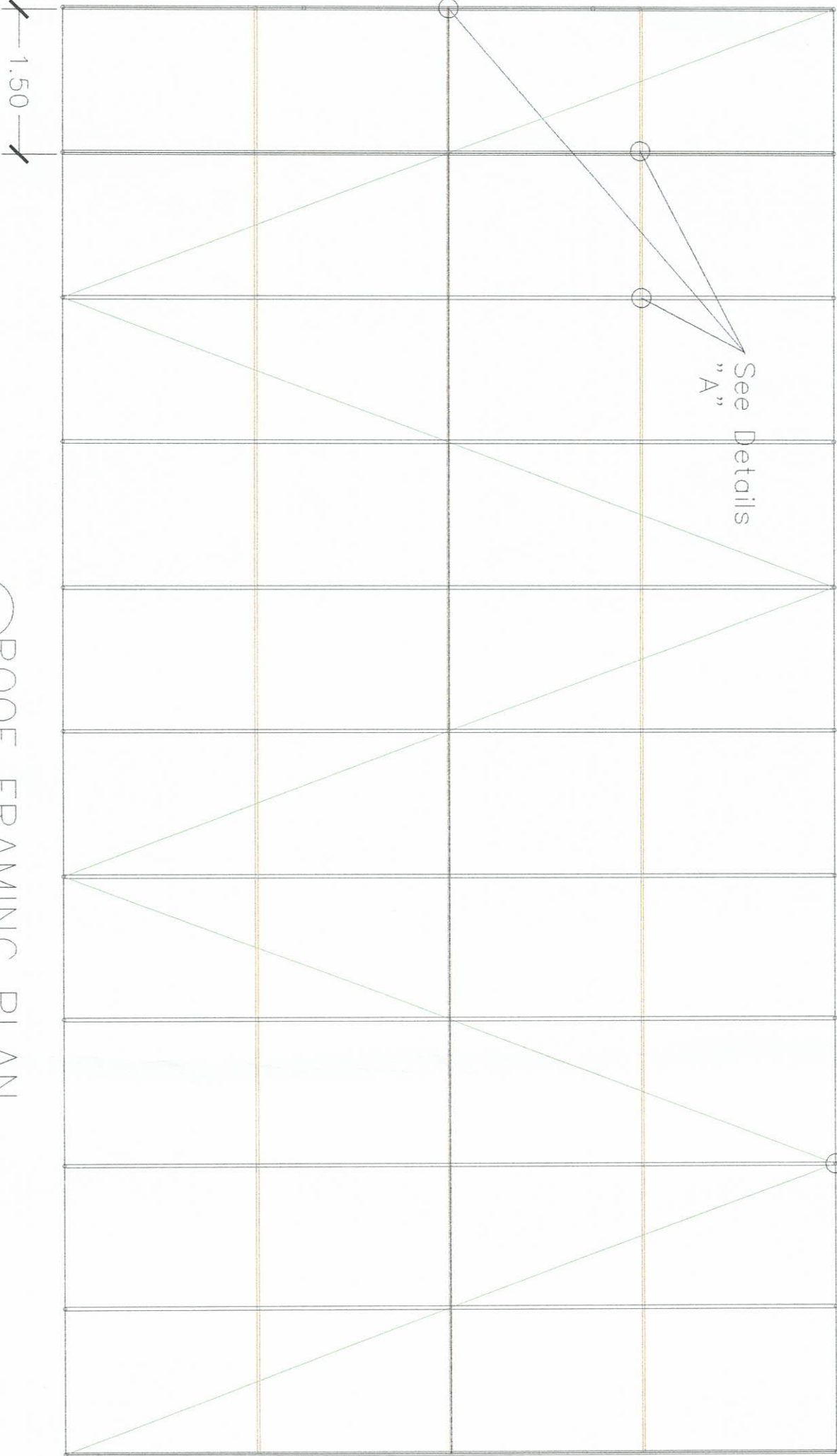
DETAIL "B"




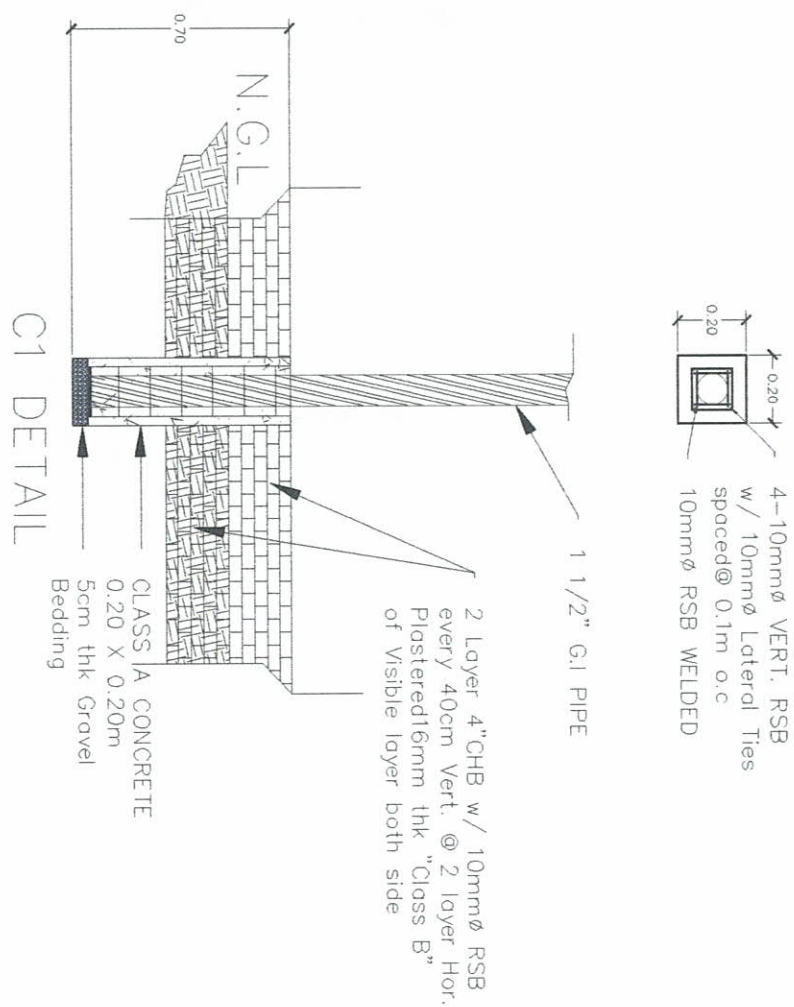
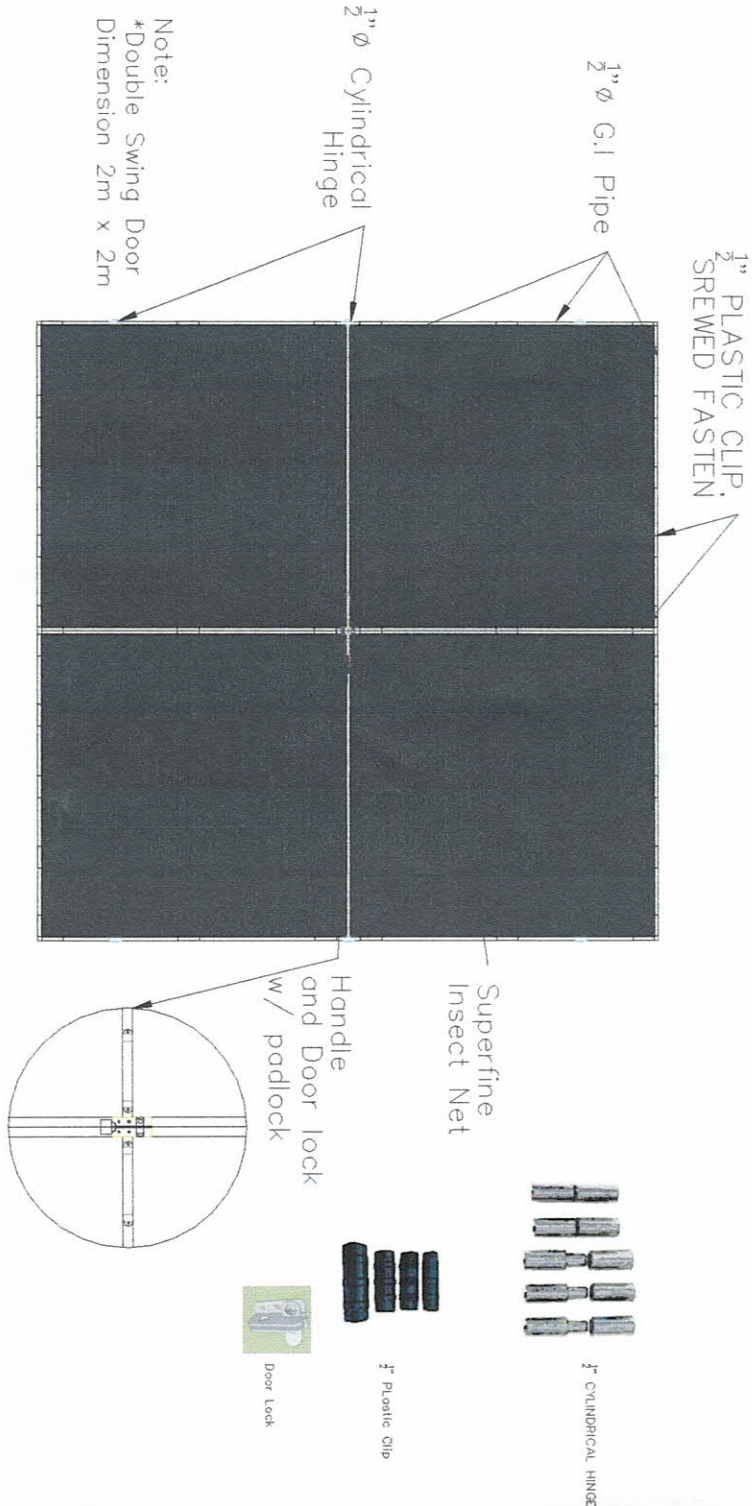
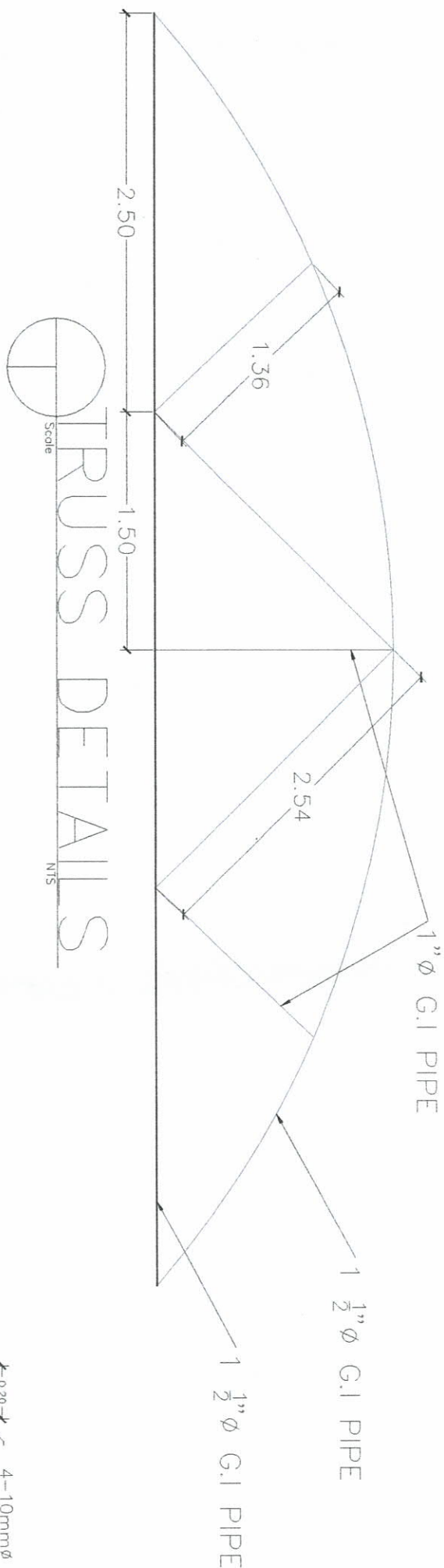
Cross Connector
w/ Bolts & Nuts

DETAIL "A"

ROOF FRAMING PLAN



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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1 AGRI-A ROAD, BRVALA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO CADAWAS, ABE ENGINEER I	MARK HARRY PASTOR, ABE CHIEF, RAED	DENNIS TACMAC, ABE ATO FOR OPERATIONS	JOHN B. PASQUA, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	6 13	



SWING DOOR DETAILS

Scale

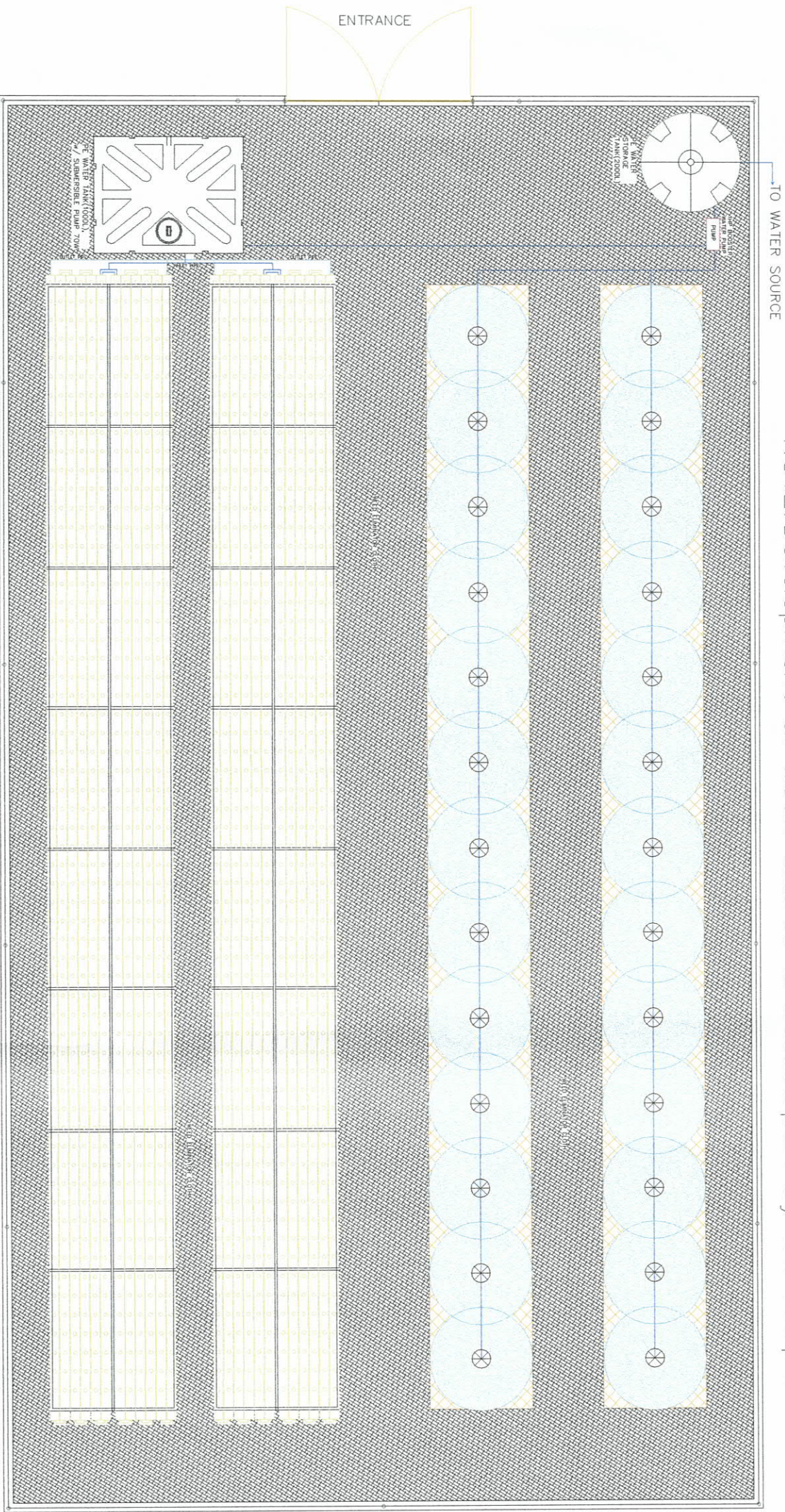
Scale

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 DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES REGIONAL FIELD OFFICE 1 AGRI. ROAD, SYRALA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
		ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO CADAVAS, ABE ENGINEER I	MARK HARRY PASTOR, ABE CHIEF, RAED	DENNIS T. TACTAC, ABE RAED-OPERATIONS	JOHN B. PASCUA, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	7 13

NOTE: Development of water source is counterpart by the recipient:

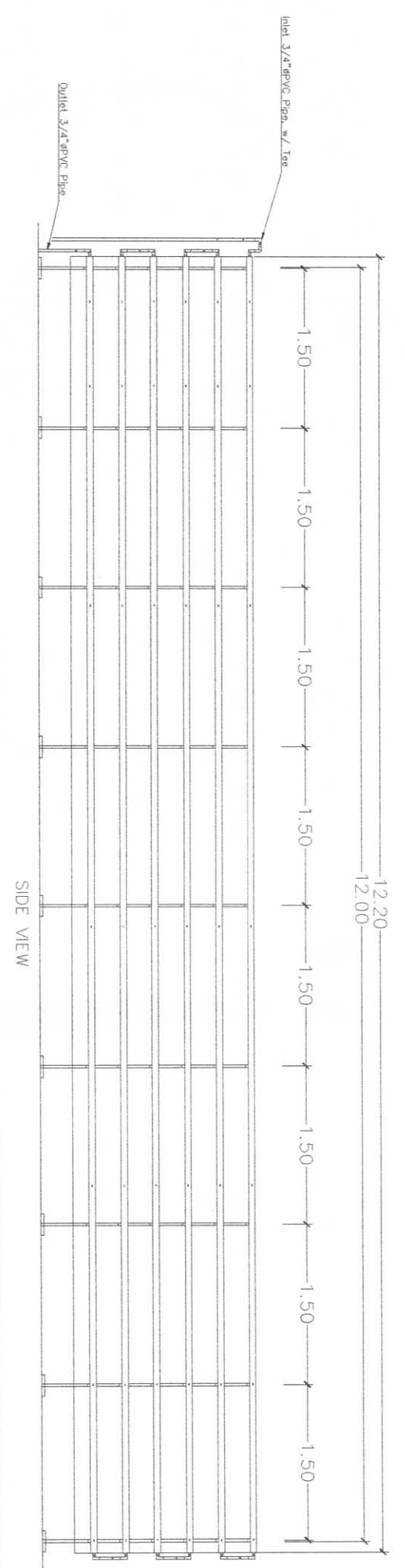


LEGEND:

- A-FRAME HYDROPONICS
- 1" ϕ & 3/4" ϕ PVC Pipe
- SEEDLING TABLE
- NURSERY SPRINKLER
- WEED ELIMINATOR CLOTH
- 2000L PE WATER TANK
- 1HP BOOSTER WATER PUMP, 1Phase
- 1000L PE RESERVOIR, W/ 70W SUBMERSIBLE PUMP & DIGITAL TIMER

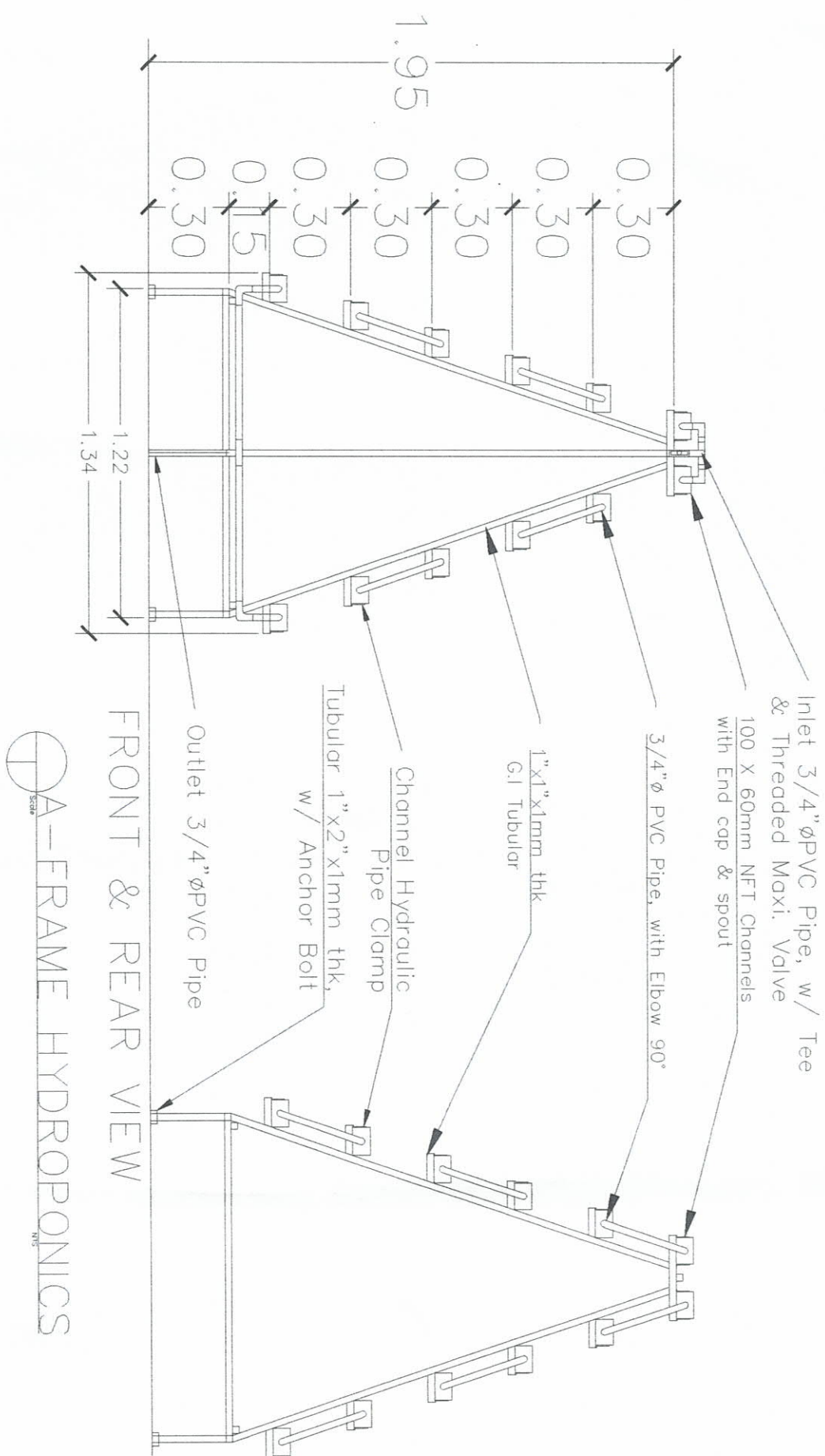
SPRINKLER & HYDROPONICS LAY-OUT

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1 AGRI 2 MOOL DRIVE 1A, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO J. CADAWAS, ABE ENGINEER I	MARK HARRY P. PASTOR, ABE CHIEF, RAED	DENNIS I. TAYAC, ABE RTD FOR OPERATIONS	JOHN B. PASCUAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	8 13



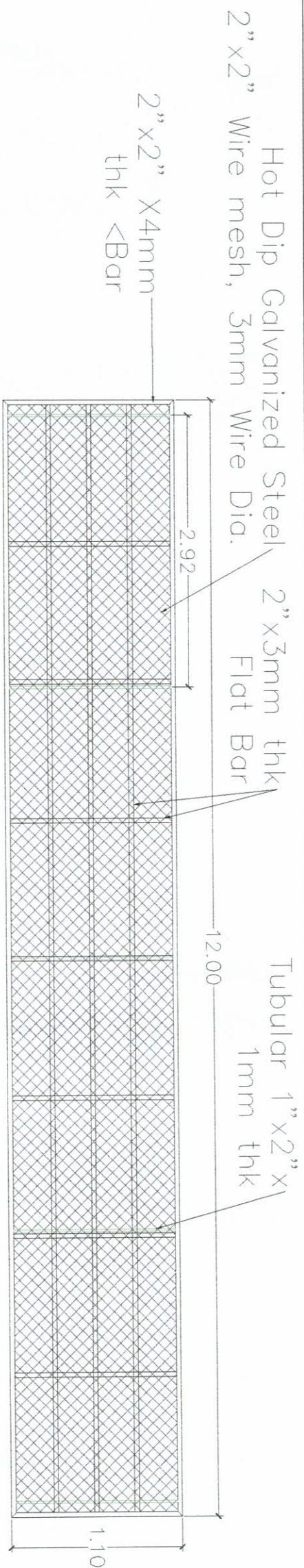
NOTE:
*Used NFT connector to joint NFT channel pipe.
*Used 2"Ø (inside) Plastic Basket Net pot.
*NFT channel hole spacing should be 0.20m o.c.
*A-Frame stand shall be Fully welded and Painted.

LEGEND:



A-FRAME HYDROPONICS

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1 AGRI. A ROAD, BRVALA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO J. ZADAWAS, ABE ENGINEER I	MARK HARRY G. PASTOR, ABE CHIEF, RAED	DEMMAN T. TAYAC, ABE RTD FOR OPERATIONS	JOHN B. PASCUAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	9 13



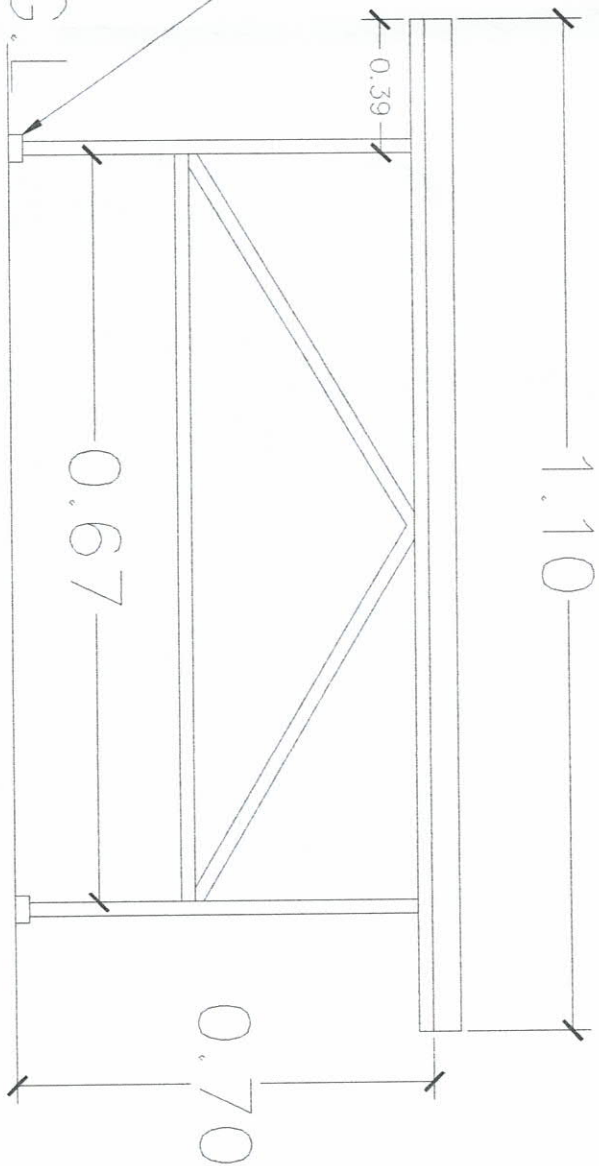
TOP VIEW



SIDE VIEW

NOTE:
*Nursery Bench stand shall be Fully welded and Painted.

Tubular 1"x2"x1mm thk, w/ Anchor Bolt



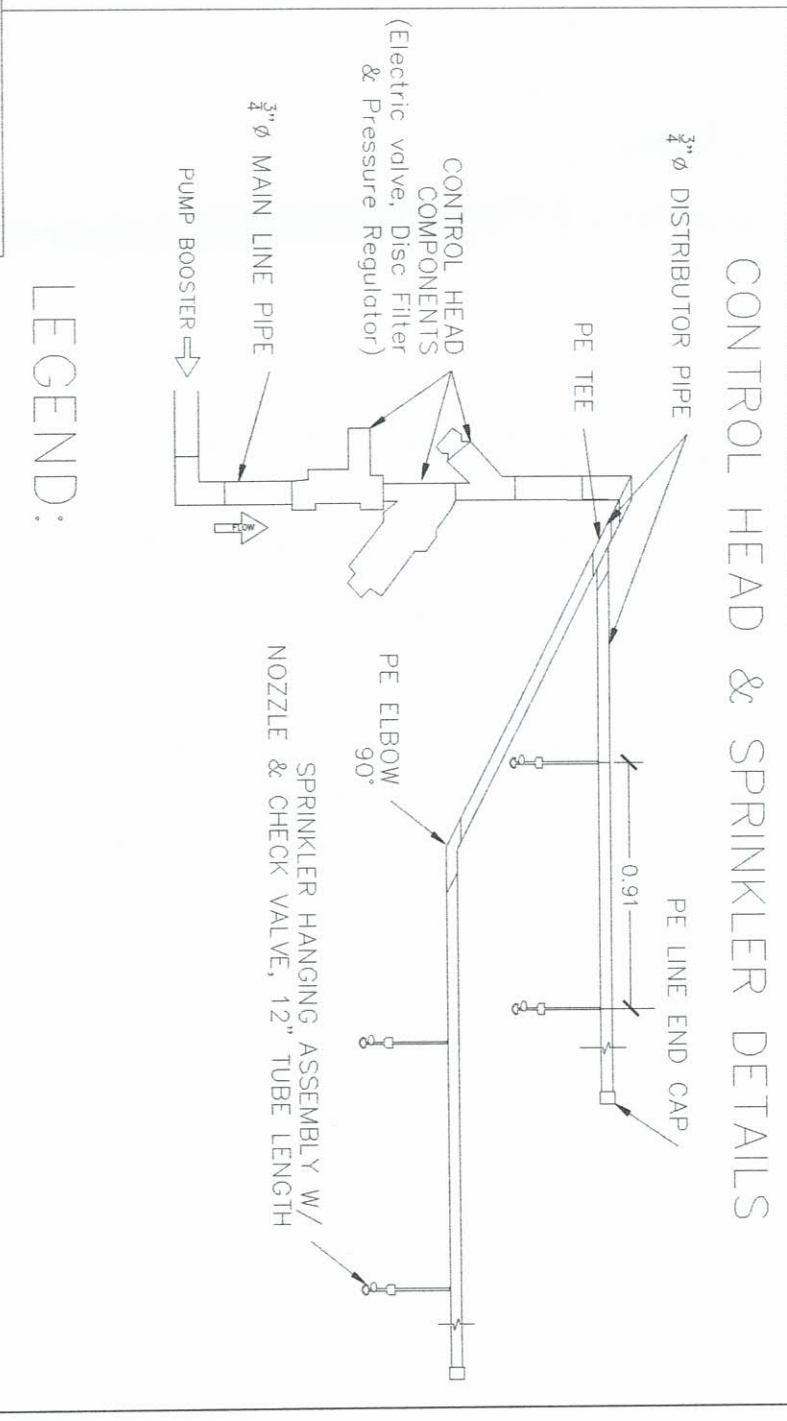
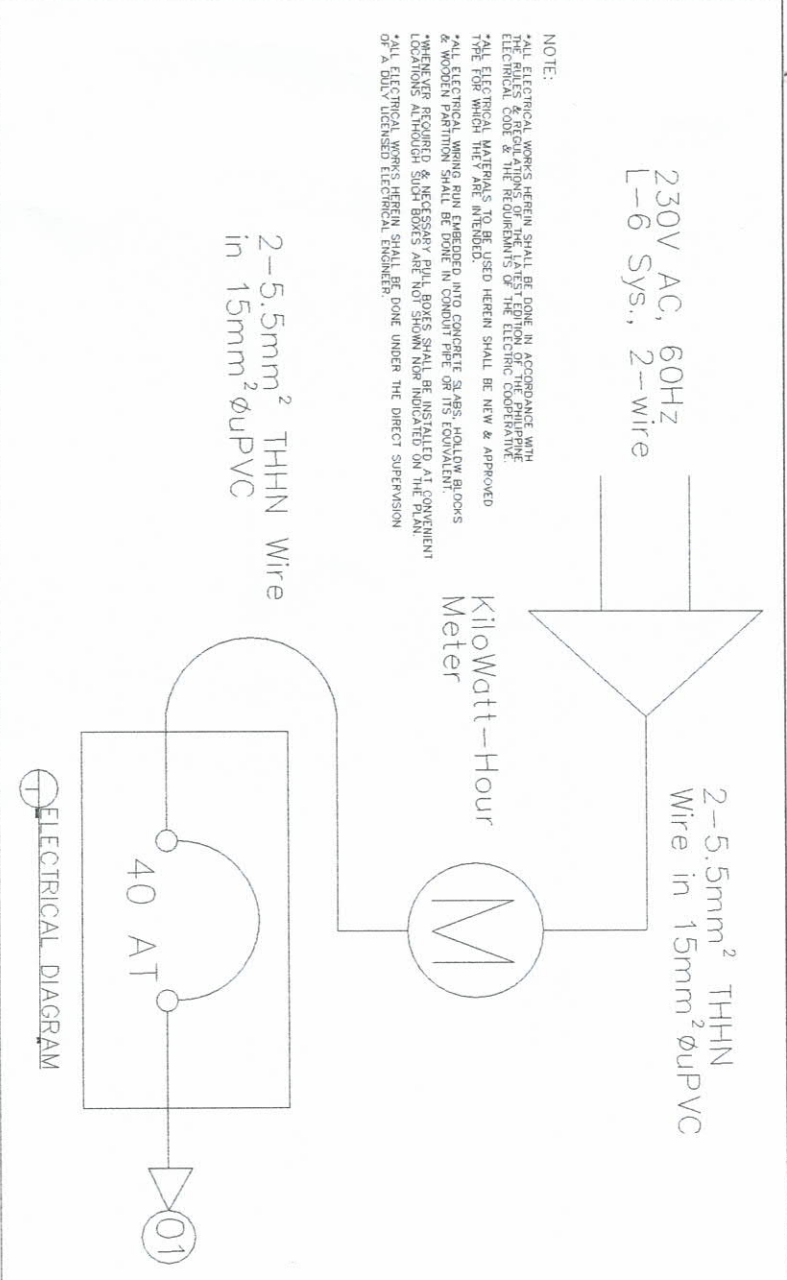
FRONT VIEW

NURSERY BENCH

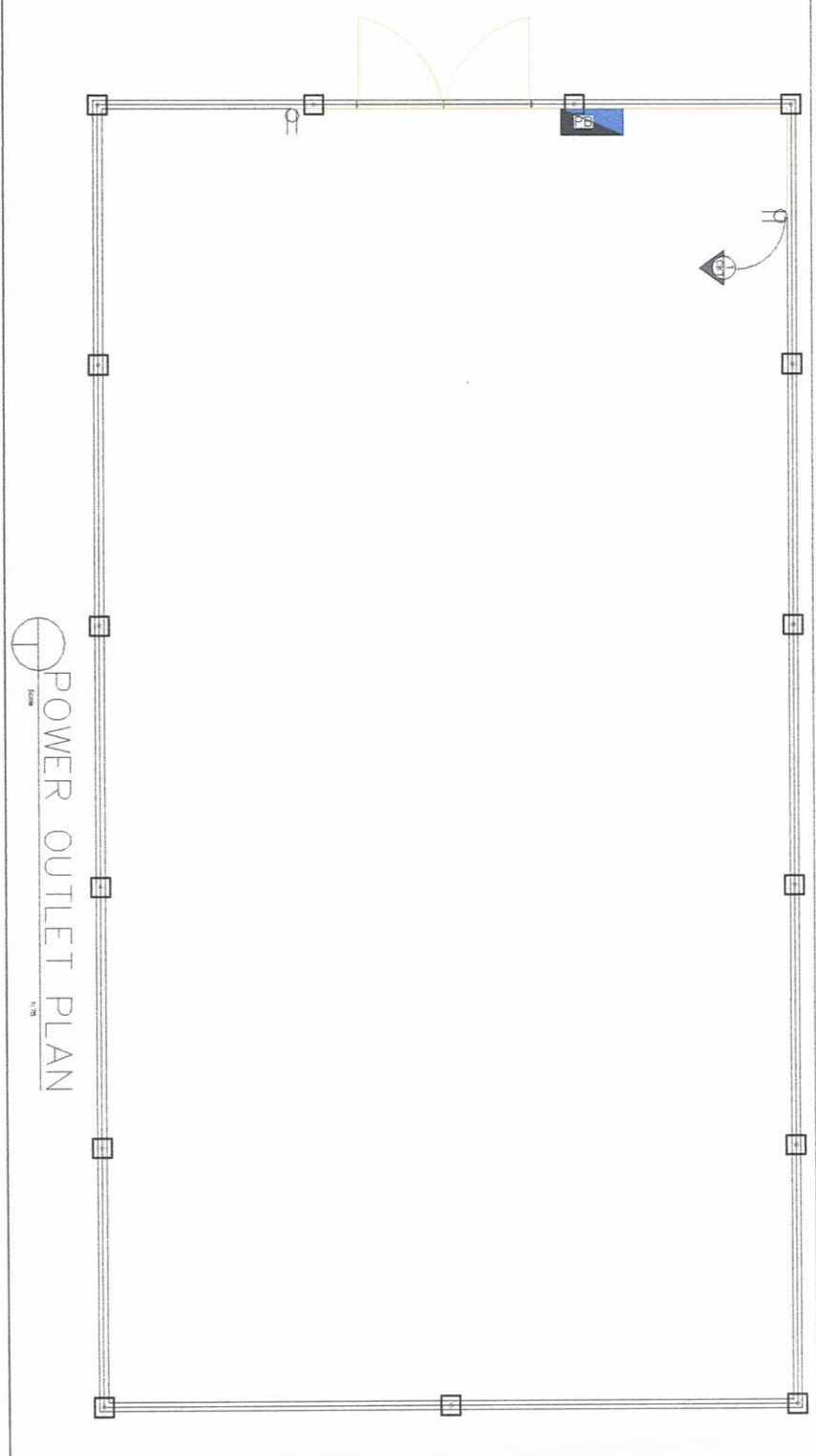
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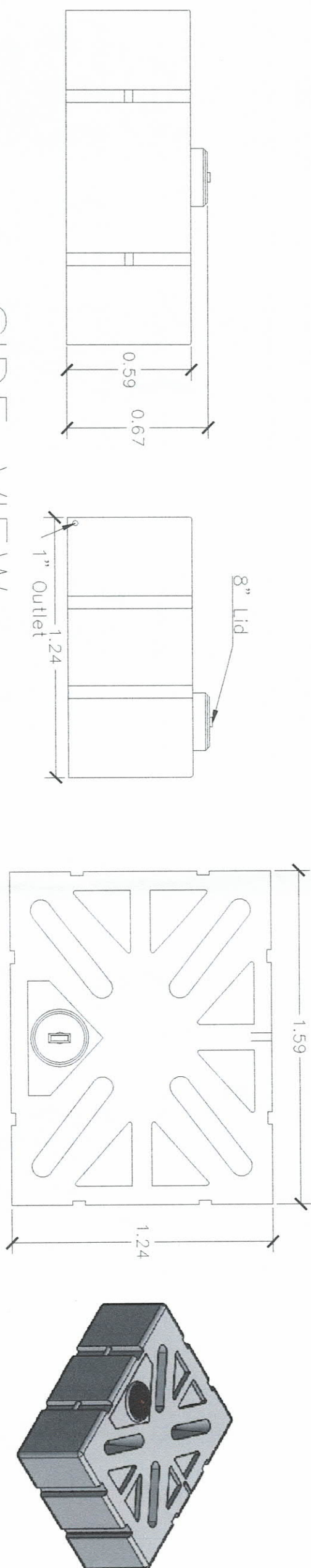
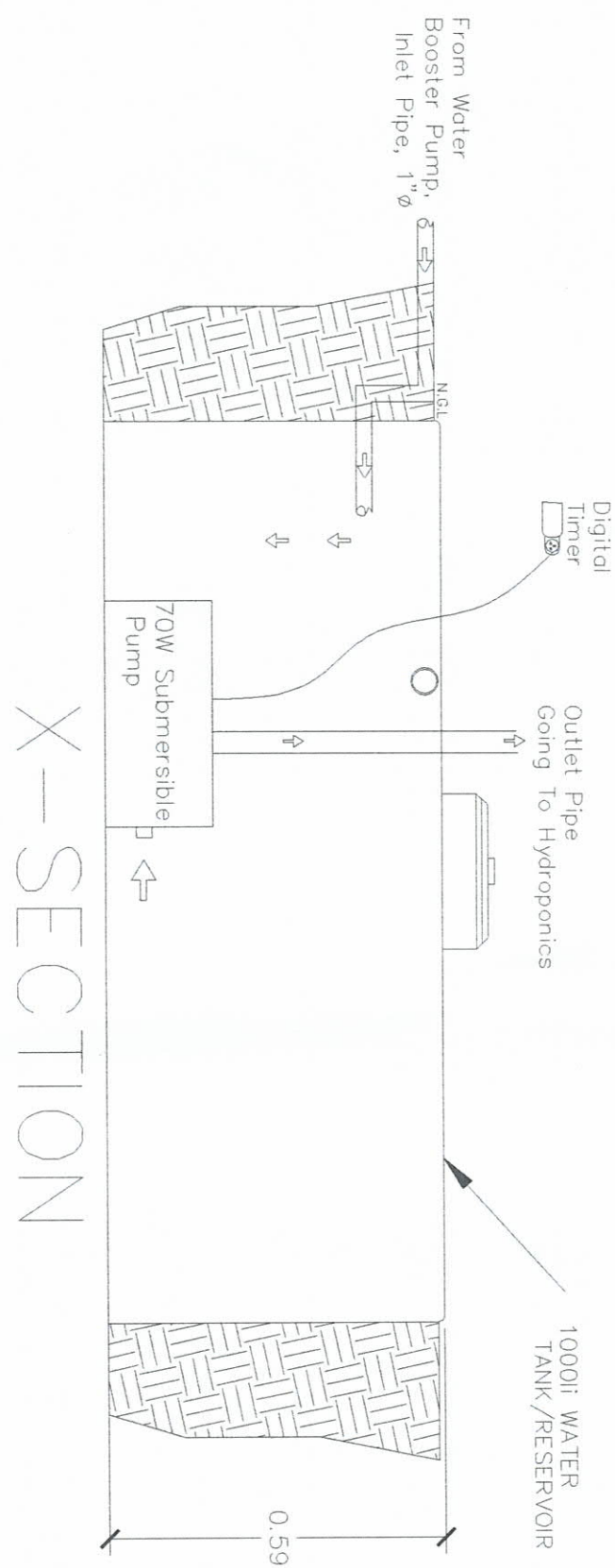
 DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES REGIONAL FIELD OFFICE 1 AGRI A ROAD, SPINLA, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE: ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	PREPARED BY: ROLANDO J. CADAWAS, ABE ENGINEER I	CHECKED & REVIEWED BY: MARK HARRY G. PASTOR, ABE CHIEF-RAED	RECOMMENDING APPROVAL: DENNIS T. TAYAC, ABE RTO FOR OPERATIONS	APPROVED: JOHN B. PASSEDAL, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	SHEET CONTENTS: AS SHOWN	SHEET NO.: 10 13
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LEGEND:



DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES REGIONAL FIELD OFFICE 1 AGRO AROSA, BAYAN, LA SALLE UNIVERSITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION	PREPARED FROM THE OFFICE OF THE:	PROJECT TITLE:	PREPARED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
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SIDE VIEW

HYDROPONICS RESERVOIR

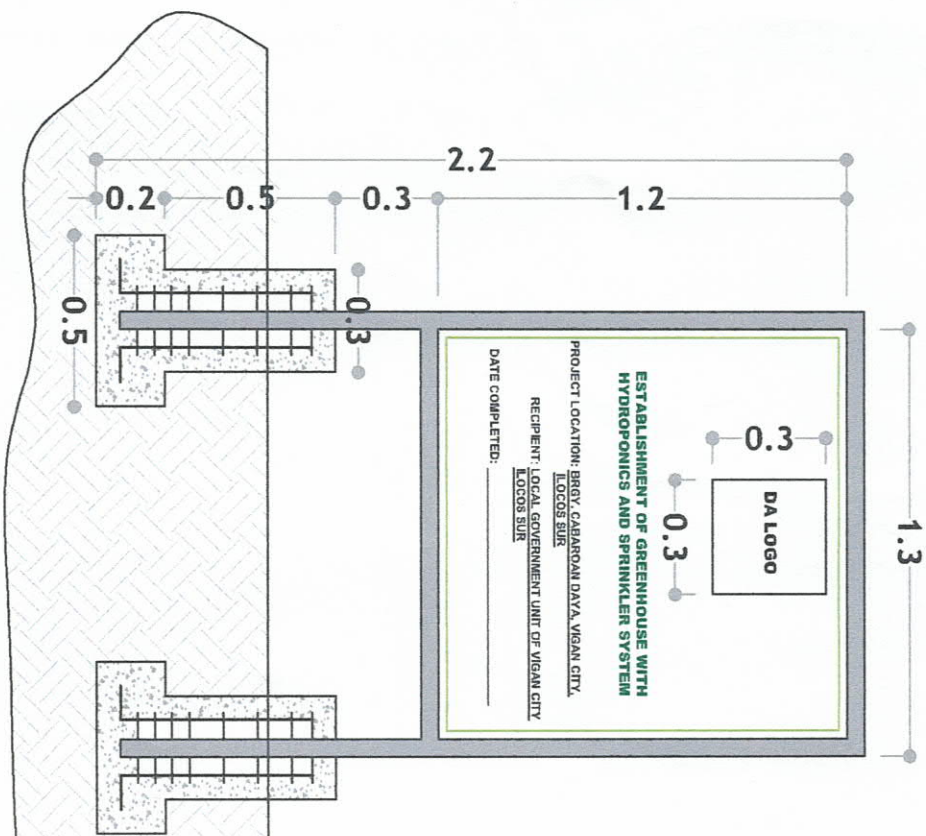
Scale

TOP VIEW

NTS

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL AGRICULTURAL ENGINEERING DIVISION	ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO CADAWAS, ABE ENGINEER I	MARK HARRY PASTOR, ABE CHIEF, RAED	DENNIS I. TACTAC, ABE RTD ERM OPERATIONS	JOHN B. PASCUA, DVM OIC, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	12 13

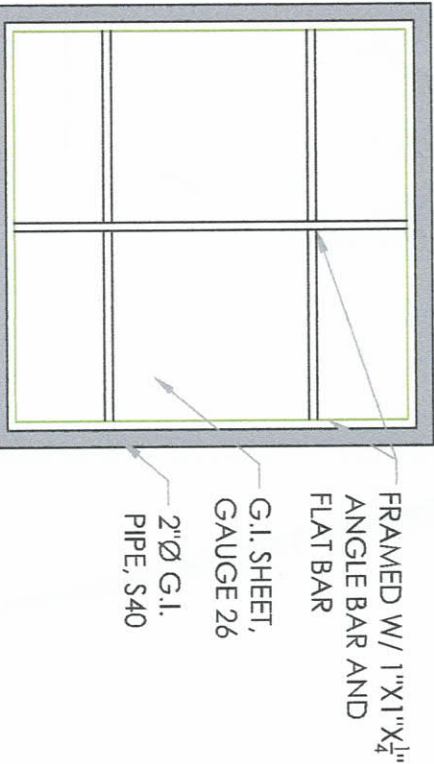
FRONT



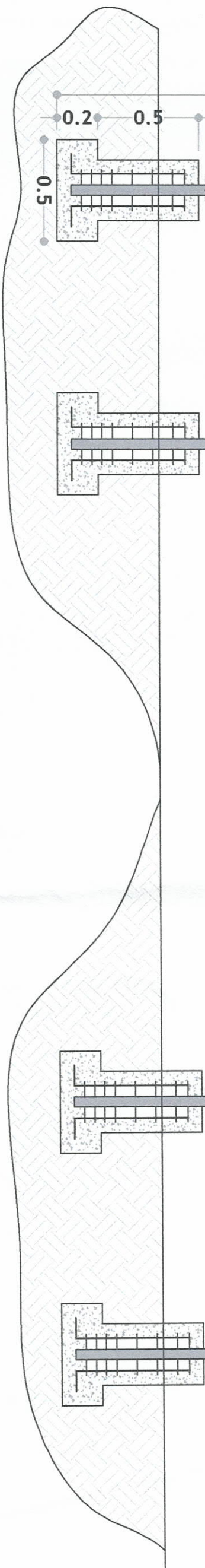
DETAIL OF CONCRETE POST
SCALE 1:20




BACK



MARKER PLAN
SCALE 1:20



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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE I AGUILA ROAD, SINGAL, SAN FERNANDO CITY, LA UNION REGIONAL AGRICULTURAL ENGINEERING DIVISION		ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP	ROLANDO J. CADAWAS, ABE ENGINEER I	MARK HARRY P. PASTOR, ABE CHIEF, RAED	DEANIS L. TAYAG, ABE RDP FOR OPERATIONS	JOHN P. PASUAL, BVM DIE, REGIONAL EXECUTIVE DIRECTOR	AS SHOWN	13 13

BID PRICES AND BILL OF QUANTITIES

Project Name: **ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS AND SPRINKLER SYSTEM UNDER NUPAP**

Project Location: **BRGY. CABAROAN DAYA, VIGAN CITY, ILOCOS SUR**

Project Description: Construction of a greenhouse featuring hydroponics and a sprinkler system.
The area dimensions total 120 sq.m. Length = 15m; Width=8m; Height=4.5m

ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
I	MOBILIZATION AND DEMOBILIZATION	1.00	L.S.		
II	CONSTRUCTION OF TEMPORARY FACILITY	12.00	L.S.		
III	PROVISION OF SAFETY AND HEALTH	1.00	L.S.		
IV	CLEARING AND GRUBBING	200.00	sq.m		
V	STRUCTURAL EXCAVATION	3.42	cu.m		
VI	MASONRY WORKS	36.00	sq.m		
VII	RSB WORKS	142.00	kgs		
VIII	GRAVEL BEDDING	1.00	cu.m		
IX	CONCRETE WORKS CLASS A W/ FORMS	0.42	cu.m		
X	GREENHOUSE STRUCTURE	1.00	L.S.		
XI	PAINTING WORKS	1.00	L.S.		
XII	A-FRAME HYDROPONICS SYSTEM INSTALLATION	1.00	L.S.		
XIII	NURSERY BENCH WITH SPRINKLER SYSTEM INSTALLATION	1.00	L.S.		
XIV	ELECTRICAL WORKS	1.00	L.S.		
XV	PROJECT MARKER	1.00	unit		
				GRAND TOTAL	

Number of days to complete the project:

39 Calendar Days

TOTAL BID AMOUNT (Php): _____

TOTAL BID AMOUNT in words: _____

(Name of Firm/Contractor)

(Authorized Signature)

(Address)

(Printed Name of Signatory)