





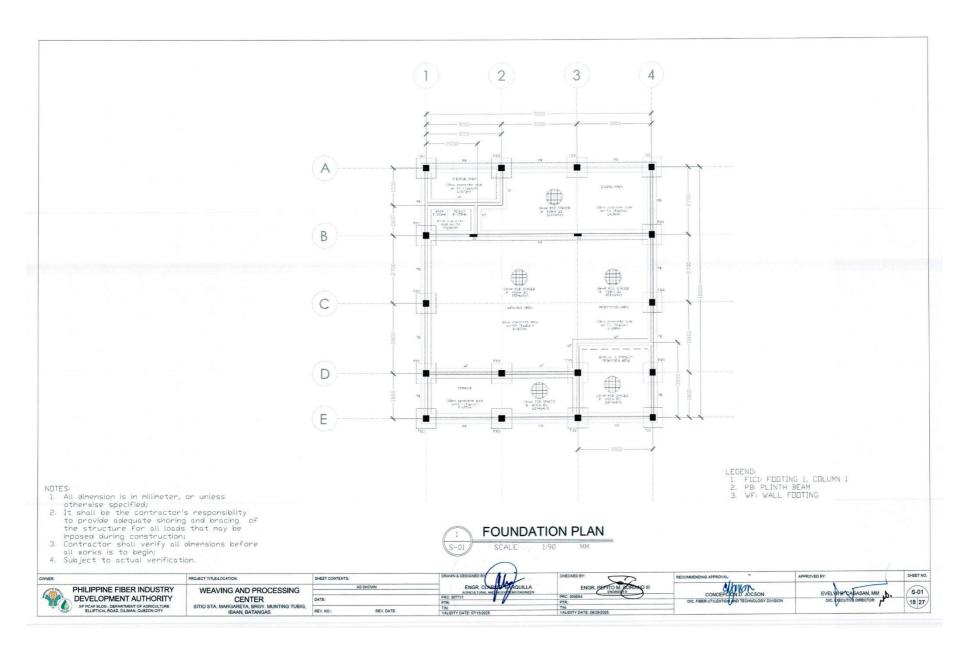
# PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY

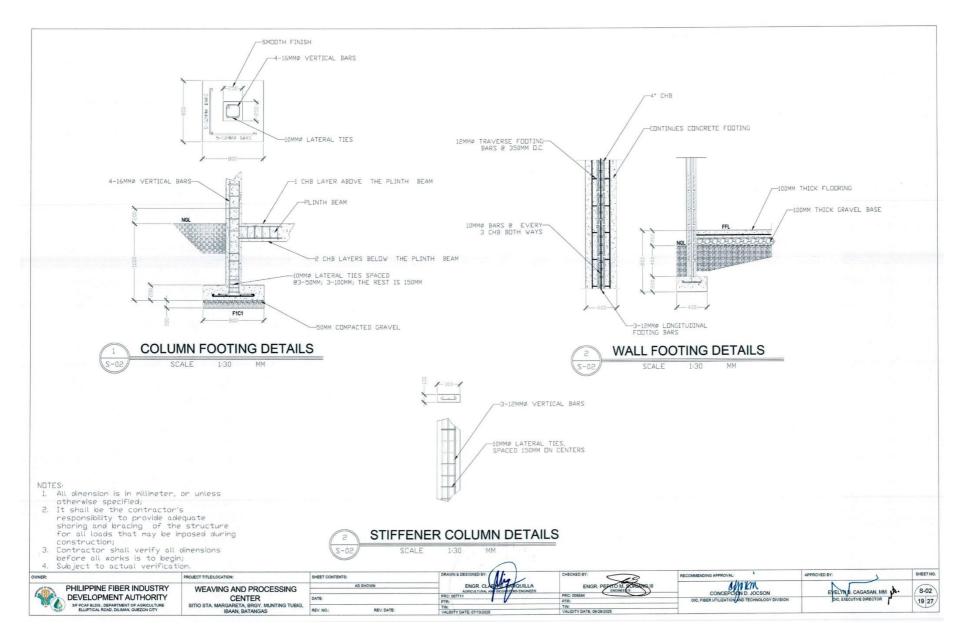
3/F DA-PCAF Bldg., Department of Agriculture, Elliptical Rpad, Diliman, Quezon City
THE BIDS AND AWARDS COMMITTEE

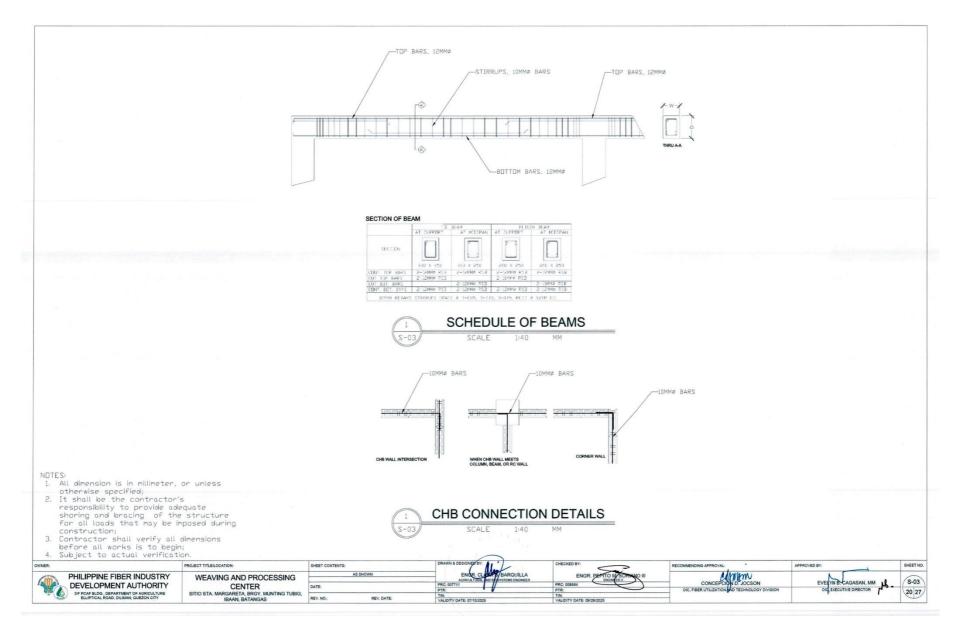
Tel. Nos. 98288756 to 65 loc. 2652; 87219813 | Email: bac@philfida.da.gov.ph

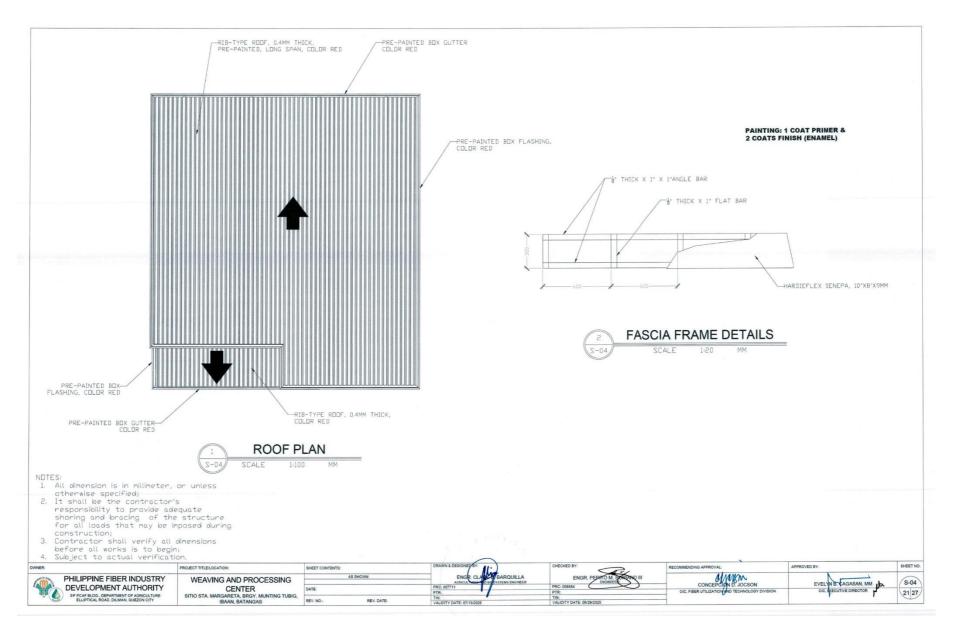
# Invitation to Bid for the Procurement of Weaving and Processing Center in Ibaan, Batangas

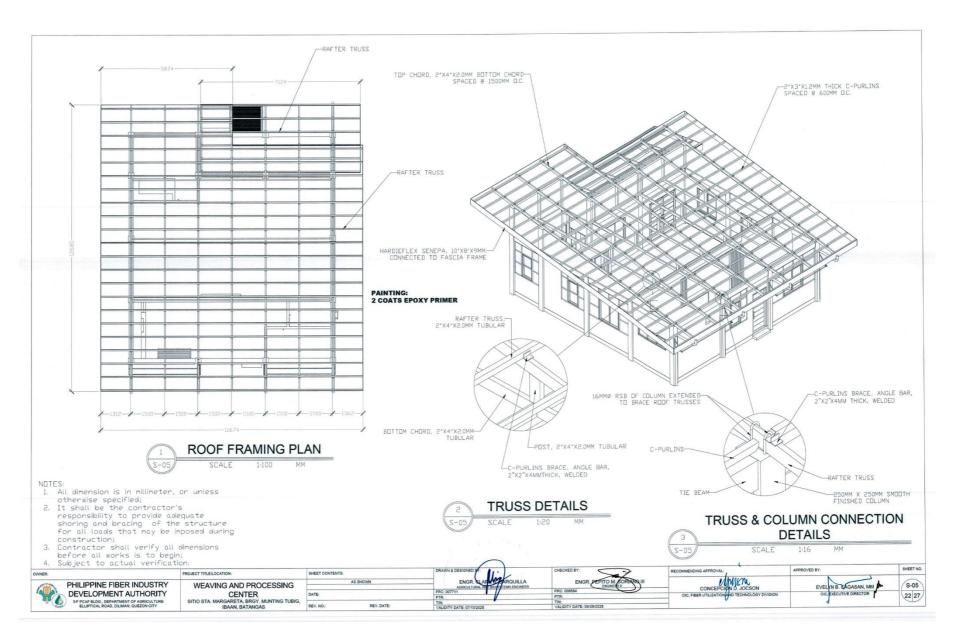
# Annex A.3 DETAILED ENGINEERING DESIGN

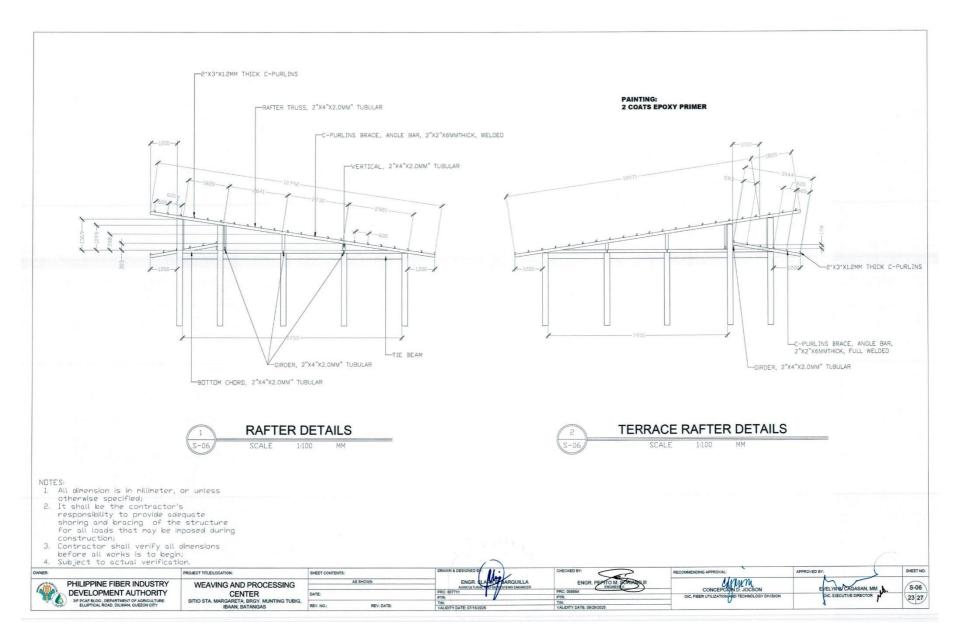


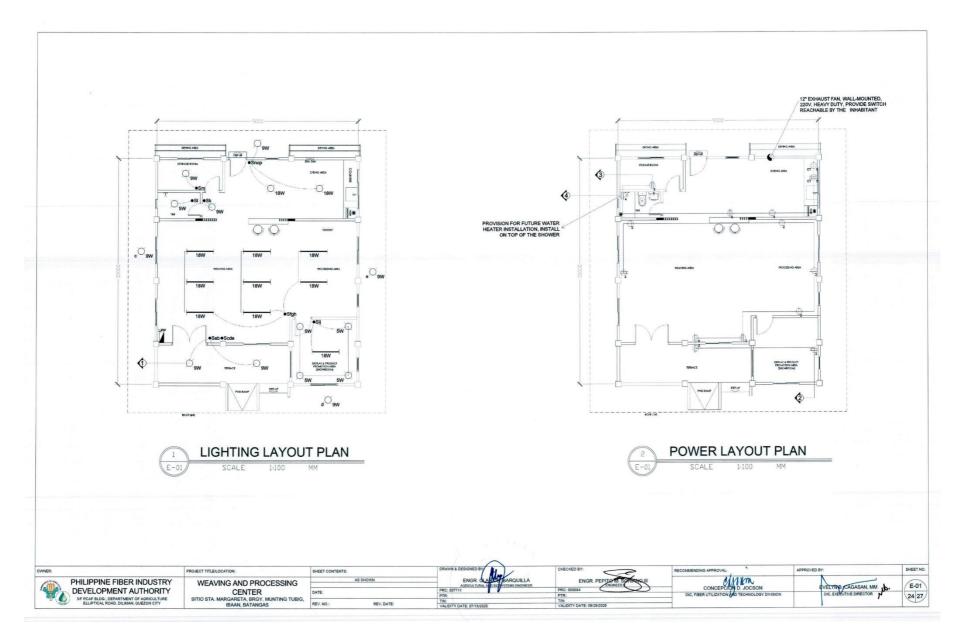












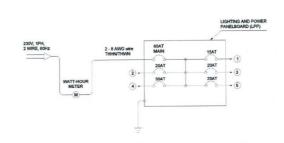


- 1. TYPE OF SERVICE SHALL BE 230-V, SINGLE-PHASE, 2-WIRE,
- 2. WIRING METHOD SHALL BE IN RIGID FLEXIBLE HOSE ON WALLS, SLABS, CEILINGS OR PARTITIONS. ALL MATERIALS TO BE INSTALLED SHALL BE BRAND NEW AND APPROVED TYPE FOR
- LOCATION AND PURPOSE.

  3. MOUNTING HEIGHTS SHALL BE:
  - LIGHT CONTROL SWITCHES-1.30m ABOVE FINISHED FLOOR
  - CONVENIENCE OUTLET 0.30m ABOVE FINISHED FLOOR LINE PANEL BOARD-1.8m FROM TOP OF PANEL TO FINISHED FLOOR LINE
  - OTHER OUTLETS-AS SPECIFIED IN THE PLAN
- 4. WHENEVER REQUIRED AND NECESSARY, PULL BOXES AND JUNCTION BOXES OF APPROPRIATE SIZES SHALL BE INSTALLED AT CONVENIENT LOCATIONS ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLANS.

  5. FOR EACH SPARE BRANCH CIRCUITS IN PANEL BOARDS, PROVIDE DNE 20mm DIA, FLEXIBLE HOSE TERMINATED TO A 100mm OCTAGONAL BOX ABOVE. PROVIDE GALVANIZED PULL WIRES IN ALL EMPTY CONDUITS.

  6. ALL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER (PEE/REE) DR A REGISTERED MASTER ELECTRICIAN (RME).



### SINGLE LINE DIAGRAM

### LEGEND & SYMBOLS :

$\Rightarrow$	SERVICE ENTRANCE	-60-	CIRCUIT BREAKER
-(M)	KWH METER		
1	CIRCUIT HOMERUN (number inside circles identify the circuit)	LPP	LIGHTING AND POWER PANEL BOARD
v	(minimum animum circums received from controlling	S.	FLUSH TYPE WALL SWITCH
O <sub>18W</sub>	18W, CEILING RECESSED LED BULB	0	EXHAUST FAN, WALL-MOUNTED
O <sub>ew</sub>	9W, CEILING RECESSED LED BULB	18W	18W, T8-LED TUBE, 4-FT
□ <sub>5W</sub>	5W, CEILING RECESSED LED BULB		
$\ominus$	DUPLEX CONVENIENCE OUTLET 220V		
$\ominus_{cr}$	COUNTER TOP CONVENIENCE OUTLET 220V		

### LOAD SCHEDULE

(2) CONVENIE	ILBS ILBS ULBS UBE, 4 FEET	5 8 2	C.O.	LOADS	25.0 72.0	PER CIRCUIT	PER CKT.	WIRE	CONDUIT
9W LED BU 18W LED BU 18W LED TO 2 CONVENIEN	ULBS ULBS UBE, 4 FEET	8			72.0	1.34			
18W LED BU 18W LED TO 2 CONVENIES	ULBS UBE, 4 FEET	2			1,500	1.34			
18W LED BU 18W LED TO 2 CONVENIE	UBE, 4 FEET	1000					15AT	2-3.5MM <sup>a</sup>	≟ø FLEX. HOSE
2 CONVENIE		9			36.0				
		-			162.0				
3 CONVENIE	NCE OUTLET DUPLEX		9		3,240.0	14.73	20AT	2-3,3MM <sup>2</sup>	₹Ø FLEX. HOSE
	NCE OUTLET DUPLEX		6		2,160.0	9.82	20AT	2-3.3MM <sup>2</sup>	å Ø FLEX. HOSE
4 SPECIAL PI	URPOSE OUTLET			1	1,500.0	6.82	30AT	2-5.2MM <sup>2</sup>	2ºØ FLEX. HOSE
5 SPARE				1	1,500.0	6.82	20AT	2-3.5MM <sup>2</sup>	½ Ø FLEX. HOSI
TOTAL LOAD IN THE BUILDING						39.53	AMPERES		



PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY 3/F PCAF BLDG., DEPARTMENT OF AGRICULTURE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROJECT TITLE/LOCATION WEAVING AND PROCESSING CENTER SITIO STA. MARGARETA, BRGY. MUNTING TUBIG, IBAAN, BATANGAS

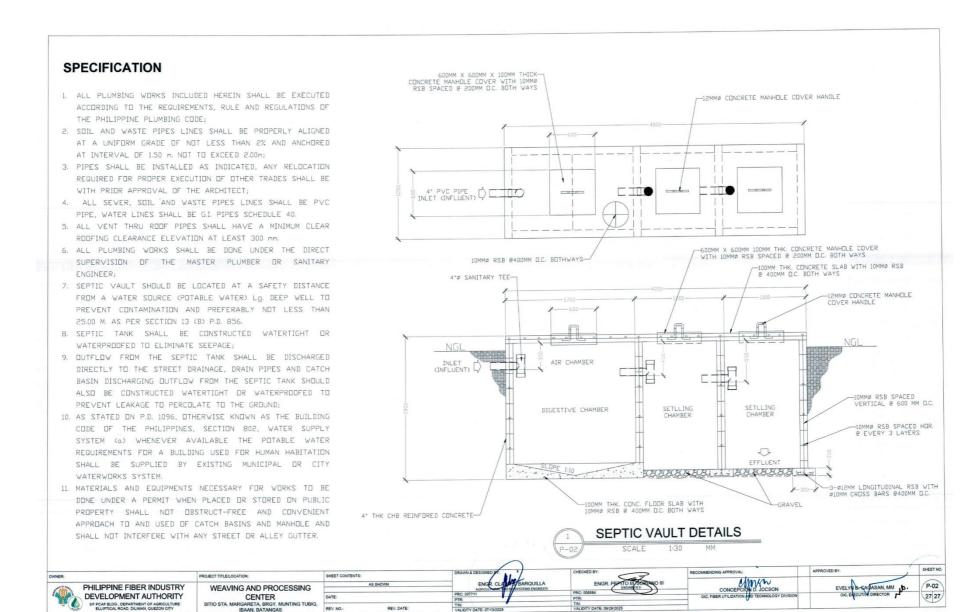
DRAWN & DESIGNED BY:

ENGR. CLASSE FARQUILLA
AGRICULTURAL AND BIOSYSTEMS ENGINEER SHEET CONTENTS: TIN: VALIDITY DATE: 07/13/2025

CONCEPCION D. JOCSON

OIC, FIBER UTILIZATION AND TECHNOLOGY DIVISION

SHEET NO. APPROVED BY: E-02 EVELYN B. CAGASAN, MM 25 27



Signature over Printed Name of Bidder's Authorized Representative	Position	Name of Company
_	Date Signed	

## **REMINDER**

Bidder's authorized representative must affix his/her signature. Failure of the authorized representative to sign each and every page of the Detailed Engineering Design shall be a cause for rejection of his/her bid.

