

# ADDITIONAL WORKS FOR THE MUSHROOM PRODUCTION FACILITY


## TECHNICAL SPECIFICATIONS

Prepared by:

  
**RHYNDAVE BALINAS, RCE**  
Engineer I (License No. 0205066)

Recommending Approval

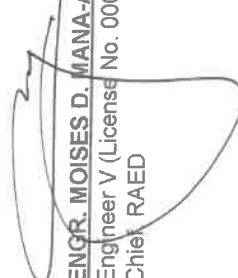
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**ENGR. YVONNE GRACE H. SUR**  
Engineer III (License No. 0005970)  
Head, EPDSS

Approved by:

  
**DENNIS R. ARPJA**  
Regional Executive Director

Reviewed/Submitted by:

  
**ENGR. MOISES D. MANA-AY, MEE**  
Engineer V (License No. 0006077)  
Chief, RAED

## GENERAL CONDITIONS and SCOPE OF WORKS

The work to be executed under this contract shall include the furnishing of all materials, labor, tools, and equipment and everything listed, mentioned, or as scheduled on the drawings herein specified at aforementioned location as per plans and specifications.

All work to be done shall be of the highest quality of workmanship to the fullest intent and meaning of the plans and specifications unless otherwise specified.

### Plans and Specifications

All drawings, small scale and detail drawings are intended to collaborate with the specifications and to form part thereof, where figures are given, they are to be followed in preference to measurement by scale. Anything shown in the drawings and not mentioned in the specifications or vice versa or anything not expressly set forth in either, but which is reasonably implied shall be furnished and installed as thought specifically shown in mentioned both.

## SPL 1. MOBILIZATION/DEMOBILIZATION

The Contractor shall mobilize and move into the Project Site the required construction equipment needed for the successful completion of the Contract Work.

Demobilization shall include dismantling and removal from the site of Contractor's, materials, equipment and all temporary facilities with the exception of some facilities, which the Project Engineer shall consider remaining, and shall be handed over to DA-RAED. The time of demobilization shall also include cleanup of the site after completion of the Contract Work.

## SPL 2. PROJECT SIGNBOARD & COA BILLBOARD

The project signboard design layout and dimension shall be on a standard billboard measuring 1200 mm x 2400 mm (4ft x 8ft.) using 12 mm (1/2 inch) thick marine plywood or tarpaulin posted on 5 mm (3/16 inch) marine plywood. The billboard shall be installed in front of the project site. Framing support shall be 2" x 2" x 8' good lumber.

COA Billboard layout shall be 2400 mm x 2400 mm (8 ft x 8 ft) tarpaulin posted with 12 mm (1/2 inch) marine plywood and framed with 2" x 2" x 8' good lumber support. The resolution used shall be 70 dpi with Helvetica font name and black color as font design.

### References:

- 1) DPWH – Standard Specifications for Public Works Structures Volume III (Buildings, Ports and Harbors, Flood Control and Drainage Structures and Water Supply Systems)
- 2) DPWH – Standard Specifications for Public Works and Highways Volume II (Highways, Bridges and Airport

## 1707. LEVELING COURSE

(Refer to ITEM 200, Part C, Volume II (Blue Book))

### ITEM 200 – AGGREGATE SUBBASE COURSE

200.1	Description
This item shall consist of furnishing, placing and compacting an aggregate subbase course on a prepared subgrade in accordance with this Specification and the lines, grades and cross-sections shown on the Plans, or as directed by the Engineer.	
200.2	Material Requirements
Aggregate for subbase shall consist of hard, durable particles or fragments of crushed stone, crushed slag, or crushed or natural gravel and filler of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable subbase.	

The subbase material shall conform to Table 200.1, Grading Requirements

Table 200.1 – Grading Requirements

Sieve Designation		
Standard, mm	Alternate US Standard	Mass Percent Passing
50	2"	100
25	1"	55 – 85
9.5	3/8"	40 – 75
0.075	No. 200	0 – 12

The fraction passing the 0.075 mm (No. 200) sieve shall not be greater than 0.66 (two thirds) of the fractions passing the 0.425 mm (No. 40) sieve.

The fraction passing the 0.425 mm (No. 40) sieve shall have a liquid limit not greater than 35 and plasticity index not greater than 12 as determined by AASHTO T 89 and T 90, respectively.

The coarse portion, retained on a 2.00 mm (No. 10) sieve, shall have a mass percent of wear not exceeding 50 by the Los Angeles Abrasion Tests as determined by AASHTO T 96.

The material shall have a soaked CBR value of not less than 25% as determined by AASHTO T 193. The CBR value shall be obtained at the maximum dry density and determined by AASHTO T 180, Method D.

#### 200.3 Construction Requirements

##### 200.3.1 Preparation of Existing Surface

The existing surface shall be graded and finished as provided under Item 105, Subgrade Preparation, before placing the subbase material.

#### \*SUBTOPIC REFERENCES FOR ITEM 1707

##### Item 105 – SUBGRADE PREPARATION

###### 105.3.3 Subgrade in Common Excavation

Unless otherwise specified, all materials below subgrade level in earth cuts to a depth 150 mm or other depth shown on the Plans or as directed by the Engineer shall be excavated. The material, if suitable, shall be set aside for future use or, if unsuitable, shall be disposed off in accordance with the requirements of Subsection 102.2.9.

Where material has been removed from below subgrade level, the resulting surface shall be compacted to a depth of 150 mm and in accordance with other requirements of Subsection 104.3.3.

All materials immediately below subgrade level in earth cuts to a depth of 150 mm, or to such greater depth as may be specified, shall be compacted in accordance with the requirements of Subsection 104.3.3.

##### 200.3.2 Placing

The aggregate subbase material shall be placed at a uniform mixture on a prepared subgrade in a quantity which will provide the required compacted thickness. When more than one layer is required, each layer shall be shaped and compacted before the succeeding layer is placed.

The placing of material shall begin at the point designated by the Engineer. Placing shall be from vehicles especially equipped to distribute the material in a continuous uniform layer or windrow. The layer or windrow shall be of such size that when spread and compacted the finished layer be in reasonably close conformity to the nominal thickness shown on the Plans.

### 200.3.3 Spreading and Compacting

When uniformly mixed, the mixture shall be spread to the plan thickness, for compaction.

Where the required thickness is 150 mm or less, the material may be spread and compacted in one layer.

The moisture content of subbase material shall, if necessary, be adjusted prior to compaction by watering or by drying out, as required in order to obtain the required compaction.

Immediately following final spreading and smoothening, each layer shall be compacted to the full width by means of approved compaction equipment. Any irregularities or depressions that develop shall be corrected by loosening the material at these places and adding or removing material until surface is smooth and uniform

If the layer of subbase material, or part thereof, does not conform to the required finish, the Contractor shall, at his own expense, make the necessary corrections.

### 200.3.4 Tolerances

Aggregate subbase shall be spread uniformly and compacted according to the designed level and transverse slopes as shown on the Plans.

### 200.4 Method of Measurement

Aggregate Subbase Course will be measured by the cubic meter (m<sup>3</sup>). The quantity to be paid for shall be the design volume compacted in-place as shown on the Plans, and accepted in the completed course. No allowance will be given for materials placed outside the design limits shown on the cross-sections.

### 200.5 Basis of Payment

The accepted quantities, measured as prescribed in Section 200.4, shall be paid for at the contract unit price for Aggregate Subbase Course which price and payment shall be full compensation for furnishings and placing all materials, including all labor, equipment, tools and incidentals necessary to complete the work prescribed in this Item.

Payment will be made under:

Pay Item Number	Description	Unit of Measurement
804 (4)	Aggregate Subbase Course	Cubic Meter

## 900(1). STRUCTURAL CONCRETE, CLASS A

### General

Unless otherwise specified herein, concrete work shall conform to the requirements of the ACI Building Code. Full Cooperation shall be given other grades to install embedded items. Provisions shall be made for setting items not placed; embedded items shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

### Materials:

CEMENT for the concrete shall conform to the requirements of specification for Portland cement (ASTM C-150)

WATER used in mixing concrete shall be clear and free from other injurious amounts of Oils, acids Alkaline, organic materials or substances that may be deleterious to concrete or steel.

REINFORCING BARS shall conform to the requirements of ASTM standard specifications for Billet Steel Bars for concrete reinforcement (a15-625) and to specification for requirements for deformed steel.

1. Unless otherwise noted in plans, the yield strength of reinforcing bars shall be:

- A. Footings, footing beams and girders----- $f_y=275\text{MPa}$  (40,000 psi)
- B. Columns and shear walls----- $f_y=275\text{MPa}$  (40,000 psi)
- C. Beams and girder----- $f_y=275\text{MPa}$  (40,000 psi)
- D. non-load bearing wall partitions, bedded slabs, floor & roof slabs, Parapets, catch basin, side walk, canopy, plants----- $f_y=230\text{MPa}$  (33400 psi)

2. All reinforcing bars size 10mm or larger shall be deformed in accordance with the astm a-706 Bars smaller than 10mm may be plain.

3. Splices shall be securely wired together & shall lap or extend in accordance w/ table b (table of lap splice & anchorage length) unless otherwise shown on drawings, splices shall be Staggered whenever possible.

All dowels for anchorage of vertical and horizontal reinforcements for CHB walls and anchor bolts including structural frames, drains and all other materials in contact with concrete construction shall practically be place secured in position when concrete is placed. Refer to drawing for Reinforcing Bars

#### Proportioning and Mixing:

Proportions of all materials entering into the concrete shall be as follows:

	Cement	Sand	Gravel
Class A 3000 psi	1	2	4
Class B	1	2 <sup>1/2</sup>	5
Class C	1	3	6

MIXING - concrete shall be machine mixed. Mixing shall begin within 30 minutes after cement has been added to the aggregates. Manual mixing is allowed in the absence of concrete mixer.

#### Curing

Class of Concrete-concrete shall have a 28-day strength of 3,000 psi, for all concrete work unless otherwise indicated in the plans. All concrete shall be moist cured through an approved method for a period of not less than 7 days or at least 3 days in case of high early- strength concrete, shall be protected from injuries and shall not be allowed to dry out for a period of 28 days. Curing starts as soon as the concrete has attained initial settings of sixty (60) min. The surface of the concrete shall be kept continuously wet by covering burlap Plastic or other approved materials thoroughly saturated with water.

#### Finishing

Concrete surfaces shall not plaster unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching cement mortar or can be ground to a smooth surface to remove all joint marks of the form work.

#### Acceptance of Concrete

The strength of concrete shall be deemed acceptable if the average of 3 consecutive strength test results is equal to or exceed the specified strength and no individual test result falls below the specified strength by more than 15 %.

Concrete deemed to be not acceptable using the above criteria may be rejected unless contractor can provide evidence, by means of core tests, that the quality of concrete represented by the failed test result is acceptable in place. Three (3) cores shall be obtained from the affected area and cured and tested in accordance with AASHTO T24.

Concrete in the area represented by the cores will be deemed acceptable if the average of cores is equal to or at least 85 % and no sample core is less than 75 % of the specified strength otherwise it shall be rejected.

Method of Measurement

The quantity of concrete to be paid shall be the quantity shown in the Bid Schedule, unless changes in design are made in which case the quantity shown in the Bid Schedule will be adjusted by the amount of the change for the purpose of payment. No deduction will be made for the volume occupied by the pipe less than 101 mm (4") in diameter nor for reinforcing steel, anchors, weepholes or expansion materials

Basis of Payment

The accepted quantities of structural concrete completed in place will be paid for at the contract unit price for cubic meter as indicated on the Bid Schedule.

Pay Item No.	Description	Unit of Measurement
900 (1) c1	STRUCTURAL CONCRETE (Class A)	Cubic Meter

902(1)a. REINFORCING STEEL BAR (DEFORMED)

Description

Steel reinforcing bars to be used for this project shall consist of standard deformed structural bars meeting ASTM specifications.

The steel reinforcements for concrete shall be formed accurately according to the sizes of the columns, beams and girders, footings, slabs, etc., where they are to be used. They shall be tied together at each bar extension with Gauge No. 16 G.I. wire.

No steel reinforcement should be installed unless it is free from rust, scale or other coating which would destroy or reduce the bond with concrete. The reinforcement bars must be positioned such that there is space between the steel at the sides and bottom of the forms.

900.1.1 Metal Reinforcement

Reinforcing steel bars shall conform to the requirements of the following Specifications: Deformed & Plain

Billet Steel Bars for concrete Reinforcement  
Bars for concrete Reinforcement

(ASTM A 615)  
AASHTO M 31

Deformed A x b - Steel and Plain  
Bars for Concrete Reinforcement

ASTM A 617

(Refer to Item 400, Part F of Volume II (Blue Book))

ITEM 404 REINFORCING STEEL

404.1 Description

This item shall consist of furnishing, bending, fabricating and placing of steel reinforcement of the type, size, shape and grade required in accordance with this Specification and in conformity with the requirements shown on the Plans or as directed by the Engineer.

404.2 Material Requirements

Reinforcing steel shall meet the requirements of item 710, Reinforcing Steel and Wire Rope.

4.4.3 Construction Requirements

404.3.1 Bending

All reinforcing bars requiring bending shall be cold-bent to the shapes shown on the Plans or required by the Engineer. Bars shall be bent around a circular pin having the following diameters (D) in relation to the diameter of the bar (d):

Nominal diameter, d, mm	Pin diameter (D)
8 to 20	6d

Bends and hooks in stirrups or ties may be bent to the diameter of the principal bar enclosed therein.

#### 404.3.2 Placing and Fastening

All steel reinforcement shall be accurately placed in the position shown on the Plans or required by the Engineer and firmly held there during the placing and setting of the concrete. Bars shall be tied at all intersections except where spacing is less than 300mm in each directions, in which case, alternate intersections shall be tied. Ties shall be fastened on the inside.

#### 404.4 Method of Measurement

The quantity of reinforcing steel to be paid for will be the final quantity placed and accepted in the completed structure.

#### 404.5 Basis of Payment

The accepted quantity, measured as prescribed in Section 404.4, shall be paid for at the contract unit price for Reinforcing Steel which price and payment shall be full compensation for furnishing and placing all materials, including all labor, equipment, tools and incidentals necessary to complete the work prescribed in this item.

Payment will be made under:

Pay Item Number	Description	Unit of Measurement
902(1)a	Reinforcing Steel (Deformed)	Kilogram

#### 1018(1) TILE WORKS

Flooring shall be of 0.60X0.60 glazed floor tiles for incubation area and hallway. 0.4x0.4m Anti Slip Ceramic outdoor tile for porch, working area and sterilization area.

#### Method of Measurement

The work to be paid for under this Item shall be the number of square meters of Tile Works units that are satisfactorily accepted and completed.

#### Basis of Payment

for at the Contract Unit Price for Tile Works which price and payment shall include the cost of furnishing all labor, materials and equipment necessary to complete the work.

Payment shall be made under:

Pay Item Number	Description	Unit of Measurement
1018(1)	Tile Works	Square Meter

#### 1200 AIR CONDITIONING SYSTEM

1.5 HP split type aircondition indoor unit must be installed at the central location and at least 2 meters from the bottom surface of the room to achieve better air ventilation. There must be 15 cm clearance around the unit.

For the Aircondition outdoor unit . It should be:

- Away from direct sunlight as much as possible (the south or south east side of your home away from the afternoon sun is often a good location).
- In an open space where air can flow around the unit.
- Accessible for carrying out maintenance and repairs.
- Installed on a rigid flat surface if possible to reduce vibration.  
As close to the indoor unit as possible to maximize efficiency.

Payment shall be made under:

Pay Item Number	Description	Unit of Measurement
1200	Air Conditioning System	Lot





Republic of the Philippines  
Western Visayas  
Iloilo City

BILL OF QUANTITIES

Project Title:	ADDITIONAL WORKS FOR THE CONSTRUCTION OF MUSHROOM PRODUCTION FACILITY				
Category:	ADDITIONAL WORKS				
Brgy./Mun./Prov	Brgy. Manhayang, Santa Barbara, Iloilo				
Item No.	Scope of Works	Quantity	Unit	Unit Price	Total
SPL 1	MOBILIZATION & DEMOBILIZATION	1.00	LOT		
SPL 2	PROJECT SIGNBOARD & COA BILLBOARD	1.00	LOT		
1707	LEVELING COURSE	9.25	CU.M.		
900(1)	STRUCTURAL CONCRETE, CLASS A	13.87	CU.M.		
902(1)a	REINFORCING STEEL BAR (DEFORMED)	229.52	KG		
1018 (1)	TILE WORKS	49.85	SQ.M		
1200	AIR CONDITIONING SYSTEM	1.00	LOT		
TOTAL AMOUNT					



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF AGRICULTURE  
WESTERN VISAYAS  
PAROLA, ILOILO CITY

DETAILED ENGINEERING DESIGN PLANS  
ADDITIONAL WORKS FOR THE MUSHROOM  
PRODUCTION FACILITY

Brgy. Manhayang, Santa Barbara, Iloilo

Submitted by:

**MOISES D. MANSAY, ABE, MEE**  
Engineer (License No. 0006077)  
Chief, RAED

Recommending approval:

Approved by:

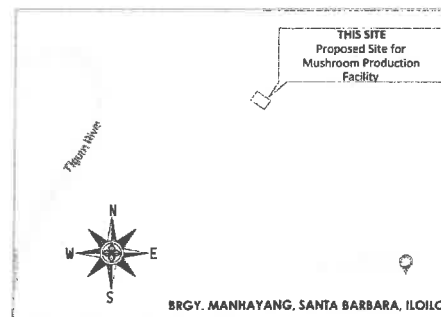
**DENNIS R. ARPIA**  
Regional Executive Director

Item No.	Scope of Works	Quantity	Unit
SPL 1	MOBILIZATION & DEMOBILIZATION	1.00	LOT
SPL 2	PROJECT SIGNBOARD & COA BILLBOARD	1.00	LOT
1707	LEVELING COURSE	9.25	CU.M
900(1)	STRUCTURAL CONCRETE, CLASS A	13.87	CU.M
902(1)a	REINFORCING STEEL BAR (DEFORMED)	229.52	KG
1018 (1)	TILE WORKS	49.85	SQ.M
1200	AIR CONDITIONING SYSTEM	1.00	LOT



## PROJECT LOCATION




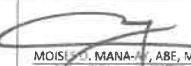

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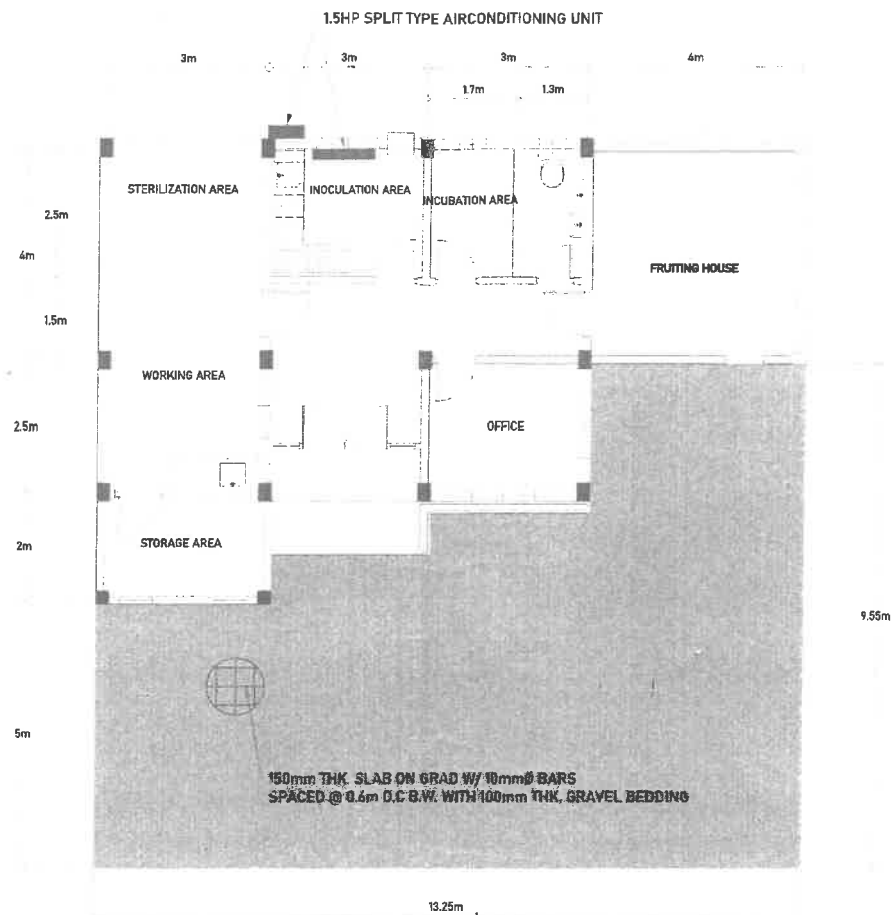


## VICINITY MAP

SCALE:






NTS

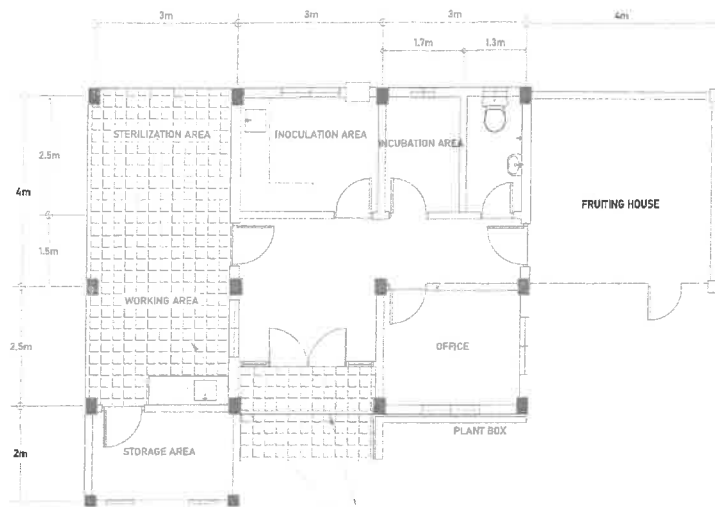
IMPLEMENTING AGENCY:  <b>REPUBLIC OF THE PHILIPPINES</b> <b>DEPARTMENT OF AGRICULTURE</b> <b>WESTERN VISAYAS</b> PAROLA, ILOILO CITY	PROJECT NAME: ADDITIONAL WORKS FOR MUSHROOM PRODUCTION FACILITY BRGY. MANHAYANG, SANTA BARBARA, ILOILO PROJECT LOCATION	SHEET CONTENTS: PROJECT LOCATION VICINITY MAP	PREPARED BY:  <b>RHYDE JAY B. BALINAS, RCE</b> Technical Staff (License No. 0025085)	CHECKED BY:  <b>YVONNE L. SUR, ABE</b> Engineer (License No. 0005970) Head, Engineering, Design and Surveying Section	SUBMITTED BY:  <b>MOISES V. MANALANG, ABE, MEE</b> Engineer (License No. 0010277) Chief, R&E	RECOMMENDATION APPROVAL:  	APPROVED BY:  <b>DENNIS R. ARPILA</b> Regional Executive Director	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PAGE NO. :</div> <div style="text-align: center;">1 4</div> </div>
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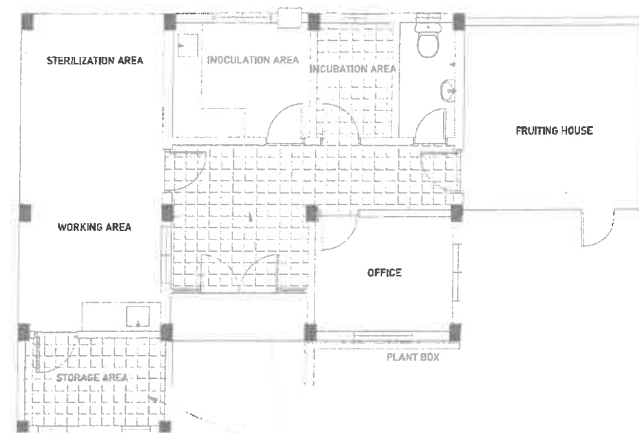
## PAVEMENT AND AIRCONDITION UNIT DETAIL

SCALE: 1:90 mts

IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME: ADDITIONAL WORKS FOR MUSHROOM PRODUCTION FACILITY BRGY. MANHAYANG, SANTA BARBARA, ILOILO PROJECT LOCATION	SHEET CONTENTS: PAVEMENT AND AIRCONDITION UNIT DETAIL	PREPARED BY:  RUDY MAYE BALINAS, RCE Technical Staff (License No. 0025065)	CHECKED BY:  YVONNE GRACE, ECE, ABCE Engineer (License No. 0000000) Head, Engineering Div., Design, and Licensing Sector	SUBMITTED BY:  MOISES D. MANAWAY, ABCE, ECE Engineer (License No. 0000000) Chief, R&D	RECOMMENDING APPROVAL: 	APPROVED BY:  LUIS R. ARPIA National Executive Director	SHEET NO.: 2 4
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40CM X 40CM OUTDOOR TILES (ROUGH)




60CM X 60CM GLAZED TILES

**TILE WORKS DETAIL**  
SCALE: 1:100 mts

	<b>REPUBLIC OF THE PHILIPPINES</b> <b>DEPARTMENT OF AGRICULTURE</b>  <b>WESTERN VISAYAS</b> PAROLA, ILOILO CITY	<b>PROJECT NAME:</b> ADDITIONAL WORKS FOR MUSHROOM PRODUCTION FACILITY BRGY. MANHAYANG, SANTA BARBARA, ILOILO PROJECT LOCATION	<b>CONTENTS:</b> TILE WORKS DETAIL	<b>PREPARED BY:</b>  RAY E. SALINAS, RCE <small>Technical Staff (Reference No. 0205065)</small>	<b>CHECKED BY:</b>  YVONNE PRINCE, RCE <small>Engineer (License No. 00155-01)          Head of Planning, Design, and          Specifications Section</small>	<b>SUBMITTED BY:</b>  MOISES MANHAY, ABE, MEE <small>Project Engineer (License No. 0000015)          Chief, EED</small>	<b>RECOMMENDING APPROVAL:</b>	<b>APPROVE BY:</b>  DENNIS R. ARPIA <small>Regional Engineering Director</small>	<b>SHEET NO. :</b>  <b>PAGE NO. :</b> 3 4
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Name of Project:  
Location:

CONTRACTOR  
DATE STARTED  
CONTRACT COMPLETION DATE:  
CONTRACT COST  
IMPLEMENTING OFFICE : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI  
SOURCE OF FUND :

 **REPUBLIC OF THE PHILIPPINES**  
**DEPARTMENT OF AGRICULTURE**  
**WESTERN VISAYAS**  
**ILOILO CITY**

- THE BILLBOARD DESIGN LAYOUT AND DIMENSION SHALL BE ON A STANDARD BILLBOARD MEASURING 1200 mm x 2400 mm (4FT x 8FT.) USING 12 mm ( $\frac{1}{2}$  INCH) THICK MARINE PLYWOOD OR TARPAULIN POSTED ON 5 mm ( $\frac{1}{8}$  INCH) MARINE PLYWOOD.

- THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE.

 **REPUBLIC OF THE PHILIPPINES**  
**DEPARTMENT OF AGRICULTURE**  
**WESTERN VISAYAS**  
**ILOILO CITY**

PROJECT :  
LOCATION :

FUND SOURCES :

IMPLEMENTING AGENCY : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI  
DEVELOPMENT PARTNER(S) :  
CONTRACTOR SUPPLIER :  
BRIEF DESCRIPTION OF PROJECT :

PROJECT DETAILS :




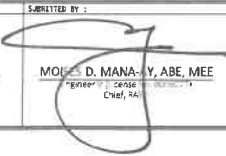

PROJECT DATE			PROJECT STATUS			REMARKS
DURATION	STARTED	UNDEBT DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF DATE	COST INCURRED TO DATE	

FOR PARTICULARS OR COMPLAINTS ABOUT THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON T-BS PROJECT:

COA REGIONAL OFFICE NO./CLUSTER :  
ADDRESS :  
CONTACT NO. : OR TEXT: COA CITIZEN'S DESK AT 0915-6361957

TARPAULIN, WHITE, 8 FT x 8 FT  
RESOLUTION: 70 DPI  
FONT: HELVETICA  
FONT SIZE: MAIN INFORMATION - 3"  
SUB INFORMATION - 1"  
FONT COLOR: BLACK



 <b>REPUBLIC OF THE PHILIPPINES</b> <b>DEPARTMENT OF AGRICULTURE</b> <b>WESTERN VISAYAS</b> <b>PAROLA, ILOILO CITY</b>	<b>PROJECT NAME:</b> ADDITIONAL WORKS FOR MUSHROOM PRODUCTION FACILITY BRGY. MANHAYANG, SANTA BARBARA, ILOILO PROJECT LOCATION	<b>CONTENT:</b> PROJECT SIGNBOARD COA BILLBOARD	<b>PREPARED BY:</b>  <b>RHYONANE BALINAS, RCE</b> Technical Staff (License No. 0205065)	<b>CHECKED BY:</b>  <b>YVONNE D. MANAY, RCE</b> Engineer - License No. 0205065 Head, Design and Signage Section	<b>SUBMITTED BY:</b>  <b>MOISES D. MANAY, RCE</b> Engineer - License No. 0205065 Chief, SA	<b>RECOMMENDING APPROVAL:</b>	<b>APPROVED BY:</b>  <b>DENNIS R. ARPJA</b> Regional Executive Director	<b>SHEET NO.</b> 4 4
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