



Republic of the Philippines
Tourism Infrastructure & Enterprise Zone Authority

MEMORANDUM

FOR : The Assistant Chief Operating Officer
Architectural and Engineering Services Sector

FROM : The Manager, Corporate Planning Department

SUBJECT : Cancellation of Proposed Public Restroom near Bomod-Ok Waterfalls and
Construction of Tourism Covered Pathway with Hanging Bridges, Sagada,
Mountain Province

DATE : 10 March 2021

Relative to the request of Mayor James B. Pooten, Jr. on the above subject, the same having been previously inspected by your personnel, may we refer for appropriate action, the following documents received by this Office thru email:

- Copy of memorandum from DOT Usec. and Chief of Staff Edwin R. Enrile dated 09 February 2021 transmitting the requests of Mayor Pooten, Jr.

For the construction of Sagada Tourist Center and Public Restrooms:

- Copy of letter from Mayor Pooten, Jr. requesting for the cancellation of proposed construction of Public Restroom near Bomod-ok Waterfalls and consequent reallocation of funds for the Sagada Tourist Center and Public Restroom
- Copy of Engineering Design/plans and Cost Estimates

For the construction of Tourism Covered Pathways with Hanging Bridges:

- Copy of letter from Mayor Pooten, Jr. transmitting Sangguniang Bayan Resolution No. 220-2020
- Copy of Program of Work, Detailed Cost Estimate, Location Plan, and Engineering Designs/plans

Please furnish this Office and the Office of the Chief Operating Officer (OCOO) the action taken on the matter.

Thank you.

FRANCIS RANDY J. HORTELANO

cc : Office of the Chief Operating Officer

FW: Letter of Mayor James Pooten Jr. - Cancellation of Proposed Project of Public Restroom near Bomod-Ok Waterfalls and Consequent Reallocation for the Sagada Tourist Center and Public Restroom and Construction of Tourism Covered Pathways with Hanging Bridges



From ocoo <occoo@tieza.gov.ph>

To <corplan@tieza.gov.ph>

Date 2021-02-26 18:09

Memo for TIEZA - Request of Mayor Pooten (Sagada, Mountain Province).pdf (~6.9 MB)

Good day !

For your appropriate action, please

Kindly see attached documents.

Thank you

Rex

Sent from my Galaxy

----- Original message -----

From: DOT OCOS - Office of the Chief of Staff <ocos.dot@gmail.com>

Date: 2/26/21 2:25 PM (GMT+08:00)

To: ocoo@tieza.gov.ph

Cc: corplan@tieza.gov.ph, DOT OSEC <sbrp.osec2@gmail.com>, sagada.mayor@yahoo.com, sagada.mayor@gmail.com

Subject: Letter of Mayor James Pooten Jr. - Cancellation of Proposed Project of Public Restroom near Bomod-Ok Waterfalls and Consequent Reallocation for the Sagada Tourist Center and Public Restroom and Construction of Tourism Covered Pathways with Hanging Bridges

Dear COO Lapid,

This is to respectfully transmit the attached memorandum from the Office of the Chief of Staff regarding the request of Mayor James Pooten Jr. of the Municipality of Sagada, Mountain Province:

1. Cancellation of the Proposed project of construction of Public Restroom near Bomod-ok Waterfalls
2. Construction of Tourism Covered-Pathways with Hanging Bridges through the Sitios of Dao-Angan, Kinlebed, Igi, Eco-Valley and Latang Underground River, and Sagada Inter-Village Pathways.

Kindly acknowledge receipt of this email.

Thank you.

Best regards,

DOT Office of the Chief of Staff

cc: Mayor James B. Pooten Jr.



MEMORANDUM FROM THE OFFICE OF THE SECRETARY

FOR : MARK T. LAPID
Chief Operating Officer
Tourism Infrastructure and Enterprise Zone Authority (TIEZA)

SUBJECT : REQUEST OF MAYOR JAMES B. POOTEN JR. FOR THE CANCELLATION OF THE PROPOSED PROJECT OF PUBLIC RESTROOM NEAR BOMOD-OK WATERFALLS AND CONSEQUENT REALLOCATION FOR THE SAGADA TOURIST CENTER AND PUBLIC RESTROOM; AND, REQUEST FOR FINANCIAL ASSISTANCE FOR THE CONSTRUCTION OF TOURISM-COVERED PATHWAYS WITH HANGING BRIDGES AT SAGADA, MOUNTAIN PROVINCE

DATE : 09 FEBRUARY 2021

This is to respectfully refer to your office for appropriate action, subject to existing laws, and applicable procurement, auditing, budgeting, and accounting rules and regulations, the attached letters of Mayor James Pooten Jr. of the Municipality of Sagada, Mountain Province:

1. Requesting for the cancellation of the proposed project of construction of Public Restroom near Bomod-ok Waterfalls with the purpose that budget allocation for the said project be included in the Sagada Tourist Center and Public Restroom fund allocation.
2. Requesting for financial assistance for the construction of Tourism-covered Pathways with Hanging Bridges through the Sitios of Dao-Angan, Kinlebed, Igi, Eco-Valley and Latang Underground River, and Sagada Inter-Village Pathways in the amount of One Hundred Twenty-Five Million Pesos (Php125,000,000.00).

May we kindly request your office to directly coordinate with the Office of Mayor Pooten on any action regarding this request, copy furnished our office.

Should you have any questions/clarifications, you may contact the office of the undersigned at ocos.dot@gmail.com.

Thank you.

A handwritten signature in blue ink, appearing to read "Edwin R. Enrile", is written over the printed name.

ATTY. EDWIN R. ENRILE
Undersecretary and Chief of Staff

Cc: *Mayor James Pooten Jr.*
Municipality of Sagada, Mountain Province



REPUBLIC OF THE PHILIPPINES
MOUNTAIN PROVINCE

MUNICIPALITY OF SAGADA
Office of the Municipal Mayor



Hon. BERNADETTE ROMULO-PUYAT
Secretary, Department of Tourism
New D.O.T. Bldg., 351 Gen. Gil Puyat Avenue
1200 Makati City

Thru: Atty. EDWIN R. ENRILE
Undersecretary for Legal and Special Concerns and Chief of Staff

COO POCHOLO D. PARAGAS
Tourism Infrastructure and Enterprise Zone Authority (TIEZA)

Dear Ma'am;

Warm greetings from the people of Sagada!

This refers to the proposed project: **Sagada Tourist Center and Public Restroom** in Sagada, Mountain Province. Said project has been terminated and was inspected last February 2020 by technical personnel from TIEZA and the Municipal Engineering Office.

Consequently, revision of the Program of Works of said project was necessary to conform with the Master Development Plan of the Mission Compound. The Mission Compound includes the site of the proposed project which is under the stewardship of the Parish of St. Mary the Virgin. Please see attached revised Program of Works for your reference.

Relative to the above, may we request for the cancellation of the implementation of the proposed project: **Construction of Public Restroom near Bomod-ok Waterfalls** with the purpose that budget allocation for said proposed project be included in the **Sagada Tourist Center and Public Restroom** project fund allocation.

Trusting for your usual support and favorable consideration on the above matter while we remain as partners in working towards a sustainable tourism industry amidst the ongoing crisis, I remain.

Very respectfully yours,


JAMES B. POOTEN JR.
Municipal Mayor

cc: Engr. Nestor M. Domalanta, Assistant COO, TIEZA
Engr. Resurreccion L. Aspuria, Construction Management Department Manager
CSMV Vestry, Sagada

Sheet Name:

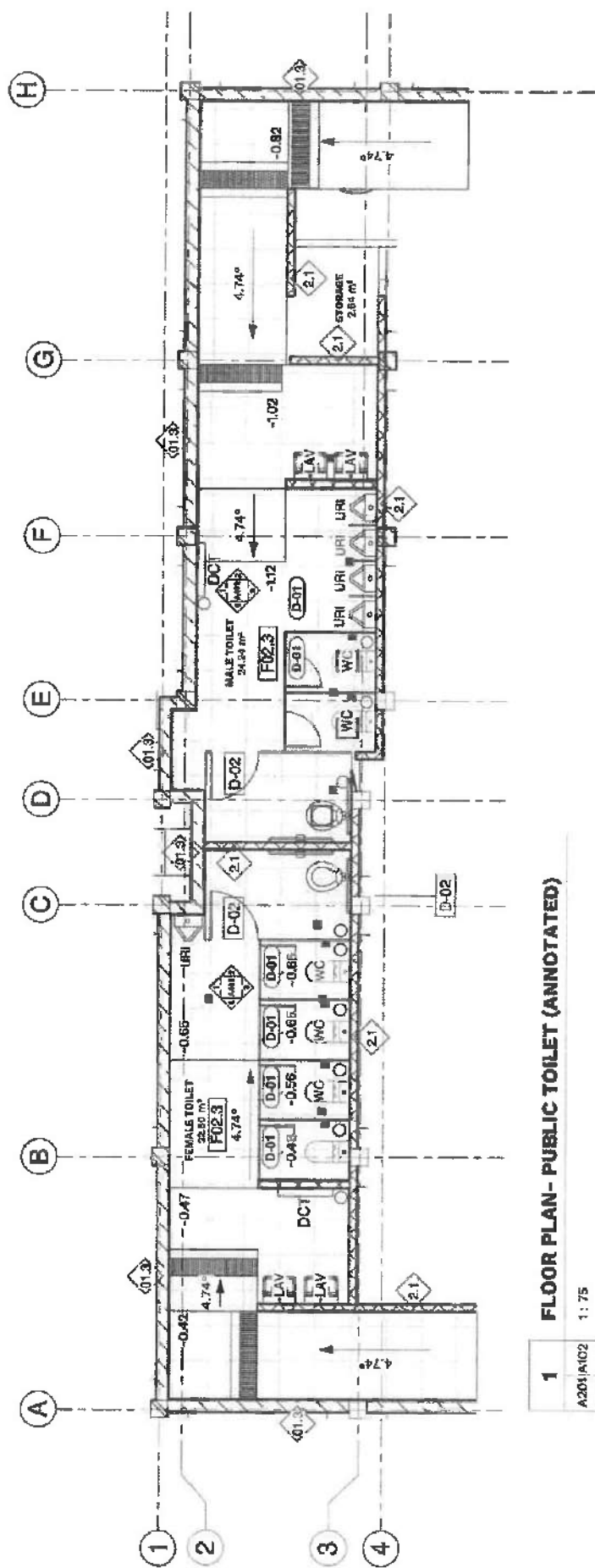
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PLOT NO. 00000000 SITE NO. 00000000 DATE: 01-01-2020		PLOT NO. 00000000 SITE NO. 00000000 DATE: 01-01-2020		LOCATION SAGADA		SCALE 1:1000		DRAWING NO. 00	



1 SITE DEVELOPMENT PLAN

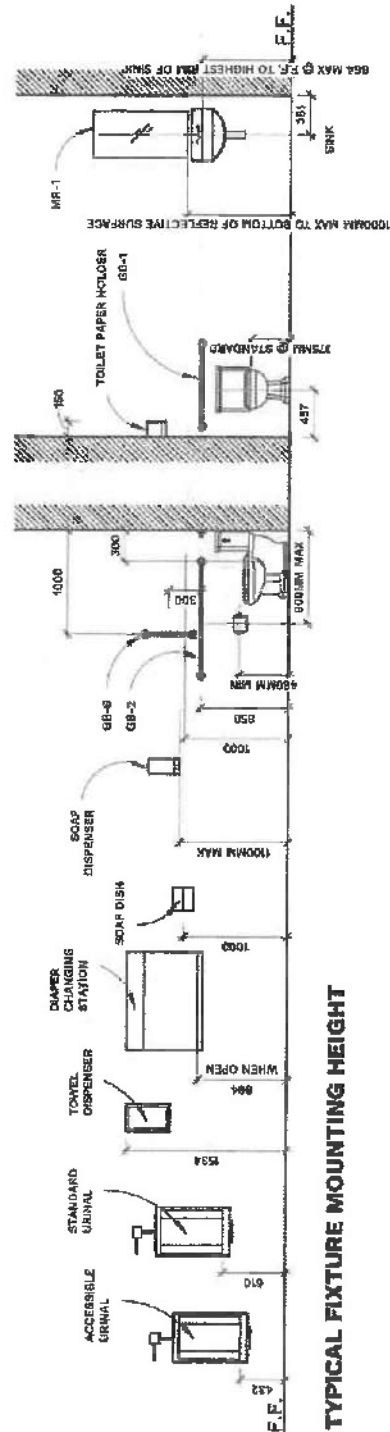
A207/A101 1:200

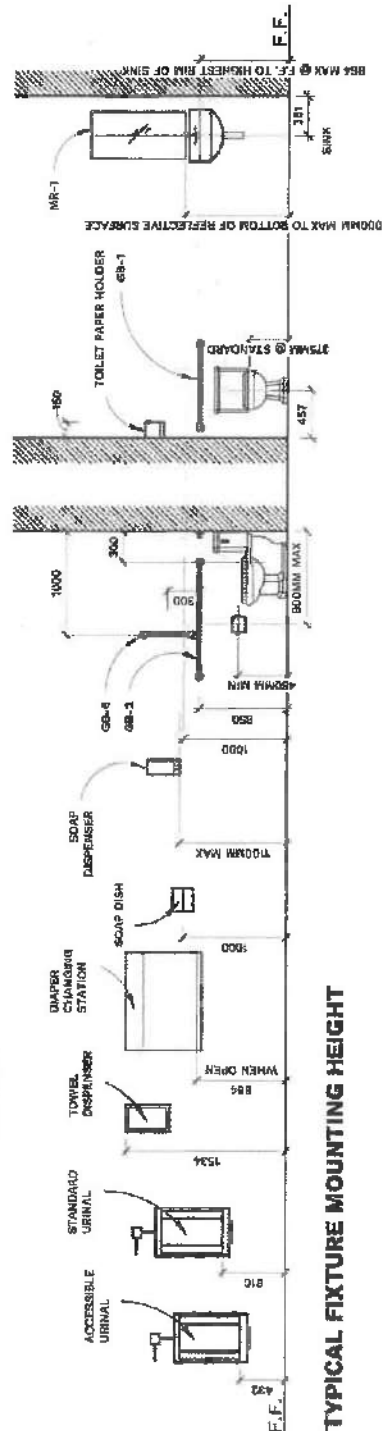
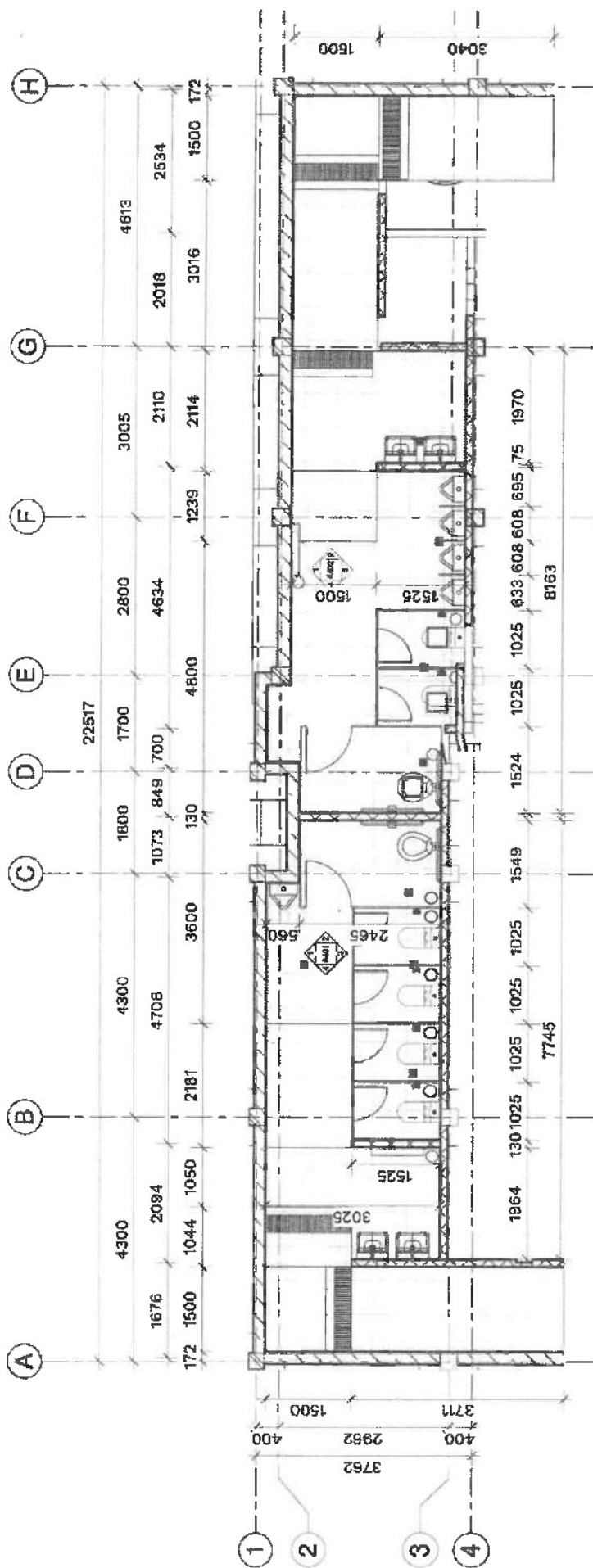
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DESIGNED BY		LOCATION		SAGADA				SCALE		1:100 @ A1	
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FLOOR PLAN- PUBLIC TOILET (ANNOTATED)

FIXTURE LEGEND

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WC - Water Closet
URI - Stainless Steel Through Urinal Top Inlet
LAV - Semi-Pedestal Wall Mounted Lavatory
TH - Stainless Steel Toilet Tissue Dispenser (Tissue Holder)
GB - Stainless Steel Waste Receptacle (Garbage Bin)
TD - Stainless Steel Towel Dispenser (Paper Towel Dispenser)
SD - Stainless Steel Soap Dispenser
HD - Jet Towel Hand Dryer
SS - Slop Sink
FD - 60mm Floor Drain Bronze Alloy Industrial Quality
126 x 126mm with strainer
GB8 - Stainless Steel Grab Bar
NET - Diaper Changing Table
BS - Bidet Spray
2-AV - Two Way Angle Valve

ARISTOTLE MARCO GO ARCHITECT		2019-32 PROJECT TITLE		SAGADA TOURIST CENTER AND PUBLIC RESTROOM		DATE DESCRIPTION OWNER		SHEET NO. 1 OF 1	
PIN NO. 00-00000 PIN NO. 000-000-0000 DATE OF ISSUE PLACE, COUNTRY, CITY		CHECKED BY CHECKED DATE		LOCATION SAGADA		FLOOR PLAN - PUBLIC RESTROOM (DIMENSIONED)		A103	
PIN NO. 00-00000 PIN NO. 000-000-0000 DATE OF ISSUE PLACE, COUNTRY, CITY		CHECKED BY CHECKED DATE		LOCATION SAGADA		FLOOR PLAN - PUBLIC RESTROOM (DIMENSIONED)		A103	

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FIXTURE LEGEND

WC - Water Closet
 URH - Stainless Steel Through Urinal Top Inlet
 LAV - Semi-Pedestal Wall Mounted Lavatory
 TH - Stainless Steel Toilet Tissue Dispenser
 GB - Stainless Steel Waste Receptacle (Garbage Bin)
 TD - Stainless Steel Towel Dispenser (Paper Towel Dispenser)
 SD - Stainless Steel Soap Dispenser
 HD - Jet Towel Hand Dryer
 SS - Slop sink
 FD - 60mm Floor Drain Bronze Alloy Industrial Quality
 125 x 125mm with Strainer
 CS - Stainless Steel Grab Bar
 DCT - Diaper Changing Table
 SS - Bidet Spray
 1-AV - Two Way Angle Valve

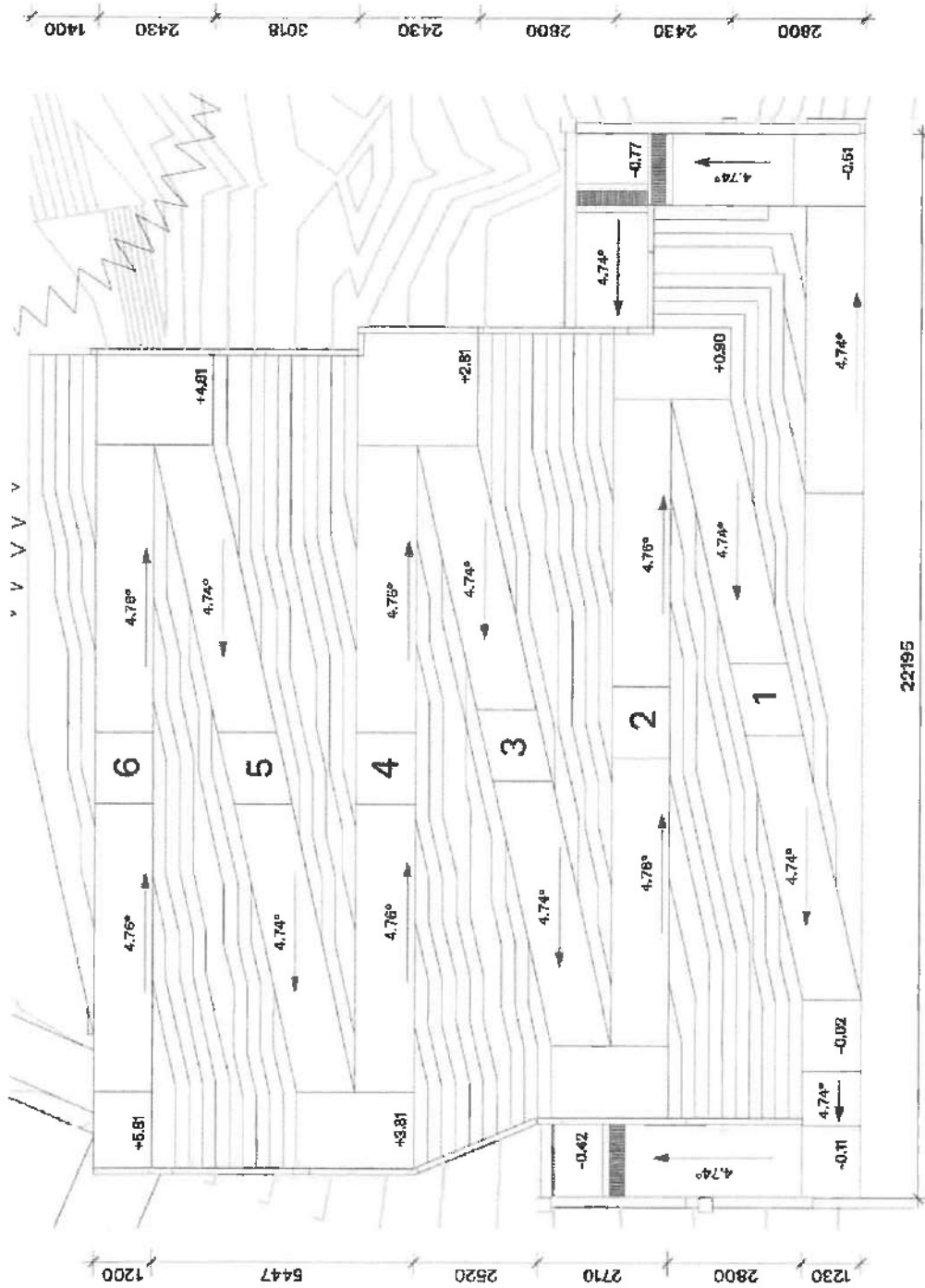
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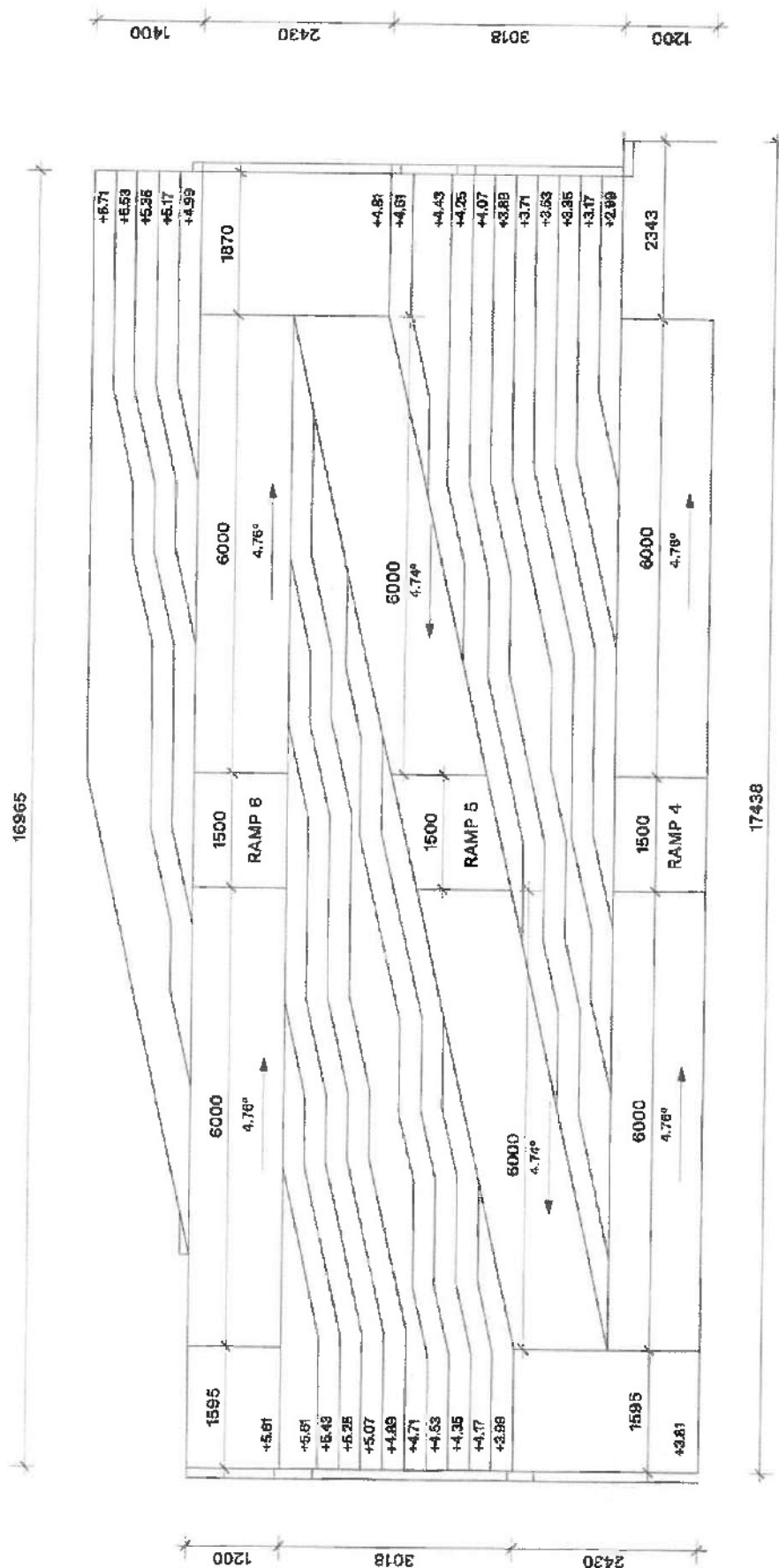
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1 TOURIST CENTER FLOOR PLAN

A201 A420 1:100

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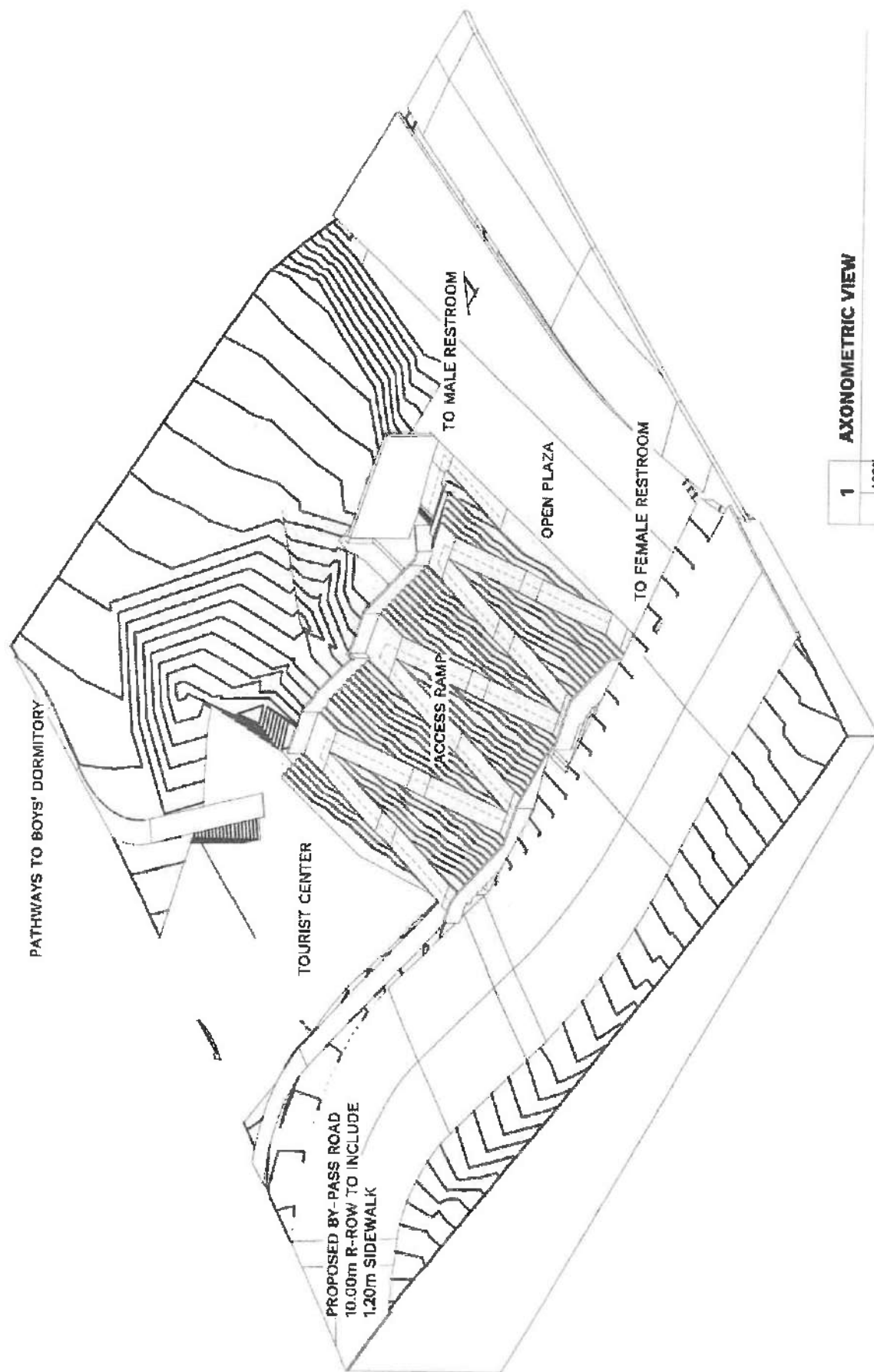


A - RAMP PLAN DETAIL - RAMP 4 - 6

PROJECT INFORMATION		DATE		DESCRIPTION		CITY NAME		COUNTY NAME	
PROJECT NO. 2019-02		PROJECT TITLE SAGADA TOURIST CENTER AND PUBLIC RESTROOM				CITY NAME Cebu		COUNTY NAME Zamboanga	
CHECKED BY Checker		LOCATION SAGADA						RAIMP DETAIL 4-6	
DATE 10/10/2019		TIME 10:00 AM						SCALE 1" = 40'	

1:20

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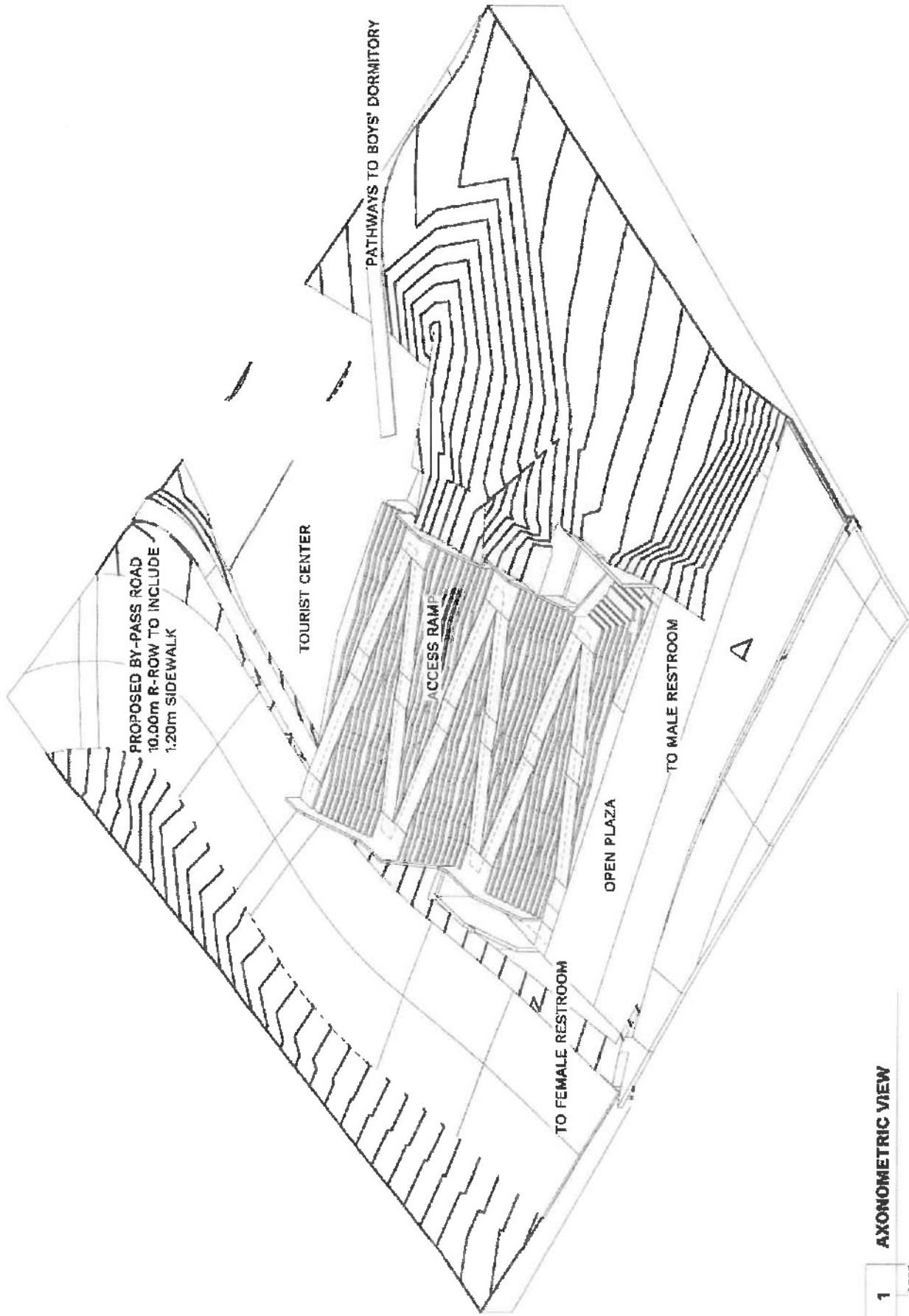


1 AXONOMETRIC VIEW

1	AS01
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PROJECT INFORMATION		CLIENT		DRAWING INFORMATION		SHEET NUMBER	
PROJECT NO.	2018-52	PROJECT TITLE	SAGADA TOURIST CENTER AND PUBLIC RESTROOM	DATE	DESCRIPTION	SHEET NAME	AS01
DESIGNED BY	CRICKET	LOCATION	SAGADA			SC VIEW	
DATE						SCALE	@ A3
PROJECT NO.	2018-52	PROJECT TITLE	SAGADA TOURIST CENTER AND PUBLIC RESTROOM	DATE	DESCRIPTION	SHEET NAME	AS01
DESIGNED BY	CRICKET	LOCATION	SAGADA			SC VIEW	
DATE						SCALE	@ A3

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1 AXONOMETRIC VIEW

A902

<div> <div>ARISTOTLE MARC GO</div> <div>ARCHITECT</div> <div> <div>PRO NO. 000000</div> <div>PRO NO. 000000</div> <div>DATE: 01/01/2019</div> </div> </div>				<div> <div>PROJECT NO.</div> <div>2019-02</div> </div> <div> <div>DATE: 01/01/2019</div> <div>01/01/2019</div> </div>		<div> <div>PROJECT TITLE</div> <div>SAGRADA TOURIST CENTER AND PUBLIC RESTROOM</div> </div> <div> <div>LOCATION</div> <div>SAGRADA</div> </div>		<div> <div>DATE</div> <div>01/01/2019</div> </div> <div> <div>DATE</div> <div>01/01/2019</div> </div>		<div> <div>OWNER</div> <div>Owner</div> </div> <div> <div>3D VIEW</div> <div>3D VIEW</div> </div>		<div> <div>SHEET NUMBER</div> <div>A902</div> </div> <div> <div>SCALE</div> <div>1:100</div> </div>	
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THIS DOCUMENT IS THE PROPERTY OF ARISTOTLE MARC GO ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ARISTOTLE MARC GO ARCHITECT.

1.0 ALL ELECTRICAL INSTALLATION HEREIN AND OTHER RELATED WORKS TO BE DONE ON THIS BUILDING SHALL CONFORM IN ACCORDANCE WITH THE PROVISIONS AND CODE STANDARD OF THE FOLLOWING:

- 1.1 LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC/NEC)
 - 1.2 REPUBLIC ACT 1950 OTHERWISE KNOWN AS THE NEW ELECTRICAL ENGINEERING LAW
 - 1.3 NATIONAL BUILDING CODE
 - 1.4 FIRE CODE OF THE PHILIPPINES
 - 1.5 ELECTRICAL CODE OF THE PHILIPPINES
 - 1.6 EXISTING LOCAL UTILITY COMPANY
 - 1.7 REQUIREMENTS OF THE BUREAU OF LABOR STANDARDS
- 2.0 ELECTRICAL INSTALLATION HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER. THE ELECTRICAL ENGINEER SHALL BE RESPONSIBLE IN THE INTERPRETATION OF THE DESIGN, INTENT, PLANS AND SPECIFICATIONS AND THE REQUIRED STANDARD OF THE ELECTRICAL CODE.

3.0 SERVICE ENTRANCE TO THE BUILDING SHALL BE THREE PHASE (3Ø), 3-WIRE + 1-GROUND WIRE, 60HZ, 220V, THROUGH 750KVA TRANSFORMER BANK.

4.0 MATERIALS AND EQUIPMENT TO BE USED (BALLAST, FLUORESCENT TUBE, WIRING DEVICES, CIRCUIT BREAKERS, CONDUIT AND PIPES, ENCLOSURES, ETC.) SHALL HAVE IMPORTED COMMODITY CLEARANCE (IC) LABEL FOR FOREIGN MADE PRODUCTS AND P.S. MARK FOR LOCAL IN NATURE OF THE BUREAU OF PRODUCT STANDARDS (BPS).

5.0 PROVIDE GROUNDING AND NEUTRAL WIRE TO ALL OUTLETS AND LIGHTING CIRCUITS. ALL NON-CURRENT CARRYING METAL PARTS SHALL BE GROUNDING AND BONDED.

6.0 ALL PANEL BOARDS, MAIN DISTRIBUTIONS PANEL, ETC SHALL HAVE GROUNDING BUS FOR BRANCH CIRCUITS AND SUB-FEEDER GROUNDING SYSTEM. MAIN GROUNDING SYSTEM SHALL BE BONDED TO THE NEAREST METAL WATER PIPE IN SERVICE.

7.0 MOUNTING HEIGHTS FOR ALL WIRING DEVICES AND PANEL BOARDS SHALL BE AS FOLLOWS:

- | | |
|-------------------------------|--------------------------------|
| 7.1 LIGHTING SWITCHES | 1.4m ABOVE FLOOR FINISH |
| 7.2 FLUORESCENT OUTLET | 0.3m ABOVE FLOOR FINISH |
| 7.3 YELLOW OUTLET | 0.3m ABOVE FLOOR FINISH |
| 7.4 PANEL BOARDS AND CABINETS | 1.8m ON TOP ABOVE FLOOR FINISH |
| 7.5 MOTOR CONTROL AND ECR | 1.8m ON TOP ABOVE FLOOR FINISH |
| 7.6 MANUAL TRANSFER SWITCH | 1.8m ON TOP ABOVE FLOOR FINISH |
| 7.7 EMERGENCY LIGHT FIXTURE | 0.4m BELOW CEILING LINE |

8.0 WIRING METHOD SHALL BE AS FOLLOWS

- | | |
|---|--|
| 8.1 FEEDER AND Riser | INTERMEDIATE METALLIC CONDUIT (IMC) |
| 8.2 LIGHTING AND POWER SYSTEM | ELECTRICAL METALLIC TUBING (EMT) FOR EXPOSED CONDUITS OR USED ABOVE CEILING AND WOODEN PARTITIONS. |
| 8.3 FLUORESCENT OUTLET | CULVERT, CHLORIDE (PVC) - IF EMBEDDED IN CONCRETE OR HOLLOW BLOCK. |
| 8.4 ALL WIRING AND EQUIPMENT | POLYVINYL CHLORIDE (PVC) |
| 8.5 JUNCTION BOX TO LIGHTING FIXTURE AND HEAT | LIQUID TIGHT FLEXIBLE CONDUIT |
| 8.6 JUNCTION BOX TO LIGHTING FIXTURE AND HEAT | FLEXIBLE METAL CONDUIT, 20mm Ø (WITH SHROUD DETECTOR CONNECTIONS) |

* NOTE: ALL INDICATED CONDUIT SIZES ARE INSIDE DIAMETERS.

9.0 LIGHTING FIXTURES WITH FLUORESCENT TUBE SHALL HAVE THERMAL PROTECTOR HIGH-POWER FACTOR BALLAST (PRE-HEAT) TO ALL CABLE SPACES AND TERMINATIONS AT BUS BARS AND CIRCUIT BREAKERS SHALL BE CRIMP-TYPE TERMINAL LUGS.

10.0 MECHANICAL EQUIPMENT WITH HIGH VIBRATION MOVEMENTS SHALL HAVE FLEXIBLE CONDUIT CONNECTION FROM MOTOR TERMINAL BOX TO OVER CURRENT DEVICE ENCLOSURE (OCB).

11.0 PRIOR TO ITS MOUNTING AND TERMINATION OF LIGHTING FIXTURES, WIRING DEVICES, EQUIPMENT, ETC. CONTRACTOR SHALL ENGAGE WITH THE CONSULTANT OR OWNER'S REPRESENTATIVE FOLLOWING FIELD ACCEPTANCE TEST AND MATERIAL INSPECTION:

- | | |
|--|--|
| 11.1 BRANCH CIRCUITS AND SUB-FEEDER | INSULATION RESISTANCE TEST MEASUREMENT |
| 11.2 POLARITY TEST ON WIRING DEVICES | |
| 11.3 GROUND RESISTANCE TEST MEASUREMENT | |
| 11.4 MATERIALS QUALITY INSPECTION AS REQUIRED IN THE ABOVE SPECIFICATION | |
| 11.5 GROUND WELL RESISTANCE TEST MEASUREMENT FOR THE LIGHTING SYSTEM | |

12.0 NO CHANGE AND MODIFICATION SHALL BE MADE WITHOUT THE CONSULTANT / DESIGNER'S WRITTEN CONSENT.

13.0 ALL WORKS SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT AND ORDERLY ACCEPTANCE ALL WORKS SHALL BE CONCEALED AS MUCH AS POSSIBLE.

1 GENERAL NOTES

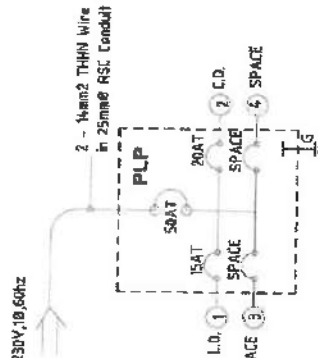
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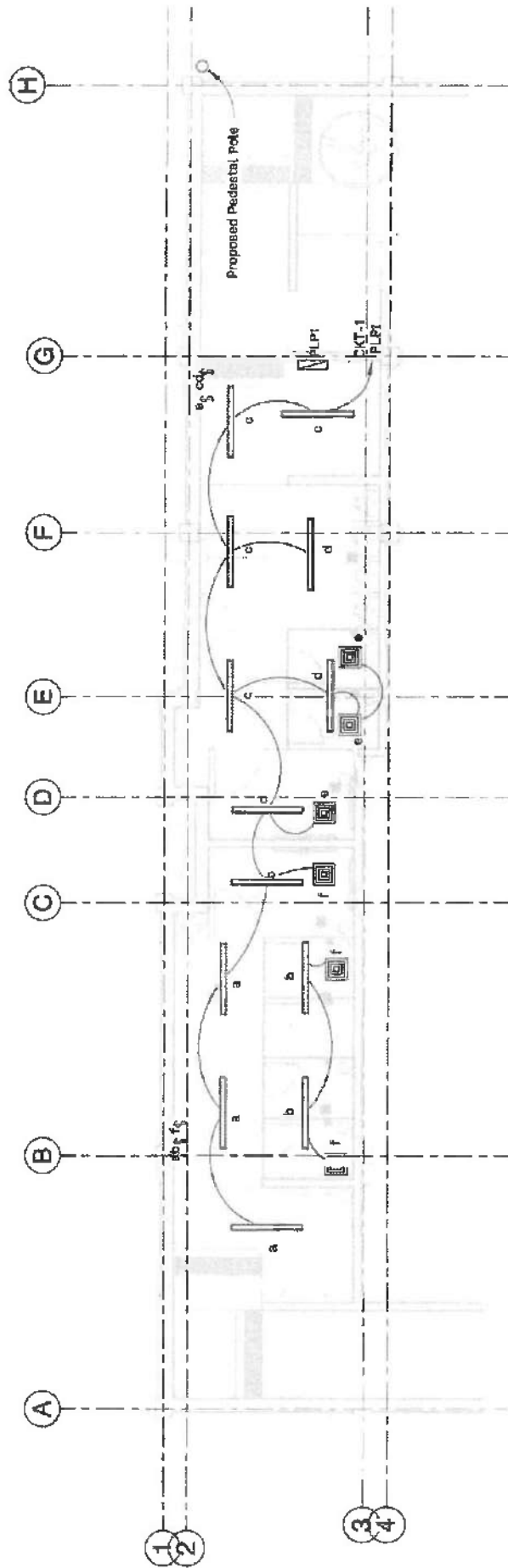
LEGEND AND SYMBOLS

SYMBOLS	DESCRIPTION
	PANEL BOARDS, NEMA 1
	LINEAR LIGHT, LED T8 BULB
	DUPLEX RECEPTACLE OUTLET
Sa	ONE GANG SWITCH
Sib	TWO GANG SWITCH
Sabc	THREE GANG SWITCH
	CEILING MOUNTED EXHAUST FAN, 160 CFM

ELECTRICAL LEGEND AND SYMBOLS

1 : 100





1 EE-PUBLIC TOILET LIGHTING LAYOUT

1:76

Branch Panel: PLP1				Voltage: 230 V				K.A.I.C. Rating: 14 KAIC			
Location: MALE TOILET 9				Phases: 1				AF: 100 A			
Supply From:				Wires: 2				AT: 50 A			
Moulding: Surface											
Enclosure: NEMA 1											
CKT	Circuit Description	VA	VOLTAG E	CURRENT	AT	AF	WIRE SIZE	CONDUIT			
1	LIGHTING OUTLETS	440 VA	230 V	2 A	16 A	50 A	Default	15			
2	Share	--	--	0 A	20 A	500 A	--	--			
3	Share	--	--	--	--	--	--	--			
4	Share	--	--	--	--	--	--	--			
TOTAL		440 VA	230 V	2 A	50 A	100 A	14mm ²	25			

LOAD COMPUTATION :
Total = 2 A x 100% af
= 2 Amperes

Service Entrance :
Use : 2 - 14mm² THHN in 25mm² RSC Conduit
Main C.B. : 50 AT / 100 AF, 2 Pole, 14 kaic

PROJECT NO: 2019-52		PROJECT TITLE: SAGADA TOURIST CENTER AND PUBLIC RESTROOM		DATE: / /		REVISION: INFORMATION		DRAWN: Owner		SHEET NAME: PUBLIC TOILET LIGHTING LAYOUT AND LOAD SCHEDULE		SHEET NUMBER: E101	
CHECKED BY: Chachar		LOCATION: SAGADA		DATE: 2019-05-01		SCALE: 1:76 @ A0							
APPROVED BY: [Signature]		DATE: 2019-05-01		DATE: 2019-05-01		DATE: 2019-05-01							

GENERAL NOTES:

- 1.0 ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE REVISED PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE AND THE RULES AND REGULATIONS OF THE LOCAL MUNICIPALITY.
- 2.0 COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ENGINEER AND / OR THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND HEREIN.
- 3.0 ALL PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF THE PLUMBING WORK SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER AND / OR THE ARCHITECT.
- 4.0 PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- 5.0 ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN TWO PERCENT (0.02) AND ONE PERCENT (0.01) MINIMUM UNLESS OTHERWISE SPECIFIED.
- 6.0 WATER SUPPLY PIPE TO FIXTURE SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 7.0 ALL BRANCHES OF FIXTURE OR GROUP OF FIXTURES SHALL BE PROVIDED WITH AIR CHAMBER MADE OF CAPPED VERTICAL EXTENSION PIPE.
- 8.0 ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED @ 100 PSI FOR A PERIOD OF TWO(2) HOURS BEFORE BURIED OR COVERED. GALVANIZED IRON (G.I.) PIPES DIRECTLY IN CONTACT WITH THE SOIL SHALL BE PROVIDED WITH TWO COATS OF MELTED ASPHALT AND WRAPPED WITH JUTE CLOTH SOAKED IN MELTED ASPHALT.
- 9.0 THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES @ SITE AND COORDINATE THE WORK WITH THE SEWER AND STORM DRAINAGE LINE EFFLUENT DISPOSAL POINT AND WATERLINE SERVICE CONNECTING/TAPPING POINT.
- 10.0 ALL PIPE SIZES AND OTHER DIMENSIONS ARE IN MILLIMETER (MM) UNLESS OTHERWISE SPECIFIED.
- 11.0 ALL PLUMBING WORKS THEREIN, SHALL BE UNDER THE DIRECT SUPERVISION OF MASTER PLUMBER AND OR A DULY LICENSED SANITARY ENGINEER

MATERIAL SPECIFICATIONS:

- COLD WATER LINE (FOR INTERIOR PIPES) - POLYPROPYLENE BY VESBO, UNITEC, WIRRSBO & REHAU.
- VENT & DOWNSPOUT (FOR EXTERIOR AND EXPOSED PIPES) - 50 TO 150mm. SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. SERIES 1000, MANUFACTURED ACCORDING TO ASTM 2729 OR PNS/SAO 374.
- DRAINAGE LINE - 50 TO 150mm. SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000, MANUFACTURED ACCORDING TO ASTM 2729 300mm. LARGER SHALL BE REINFORCED CONCRETE PIPE. CONFORMING TO ASTM-78 & NON-REINFORCED CONCRETE PIPE 200mm. TO 350mm. TO ASTM-C14.
- SEWER LINE - 50 TO 150mm. SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. SDR-35 MANUFACTURED ACCORDING TO ASTM 3034.
- PIPE DIAMETER - ALL PIPE DIAMETERS INDICATED IN THE DRAWINGS ARE INSIDE DIAMETERS.
- SEPTIC TANK:
 - 1.0 THE DIGESTION CHAMBER OF THE SUMP PIT MUST BE WATERTIGHT & AIRTIGHT.
 - 2.0 NOT LESS THAN THIRTY (30cm) CENTIMETERS OF AIR SPACE MUST BE LEFT BETWEEN THE SEWAGE LEVEL AND THE UNDER PART OF THE COVER.
 - 3.0 INNER SURFACE OF LEACHING & DIGESTION CHAMBER SHALL BE CEMENT PLASTERED FINISH.

COMPUTATION

WATER DEMAND CONSUMPTION

TOTAL NUMBER OF OCCUPANTS = 150 PERSONS AT 50 GALLONS PER PERSON PER DAY
 = 7500 GALLONS PER DAY
 = 28.39 CU. M PER DAY

SIZE OF ABOVE GROUND TANKS : (RESERVED FOR 3 DAYS)
 = 27000 GALLONS = 102.21 CU. M

SIZE OF SEPTIC TANK

NUMBER OF PERSONS : 150 OCCUPANTS
 AVERAGE OF SEWAGE FLOW RATE PER PERSON : 189.25 LITERS/ DAY
 SEWAGE FLOW RATE PER DAY : 189.25 lpd X 150 PERSONS

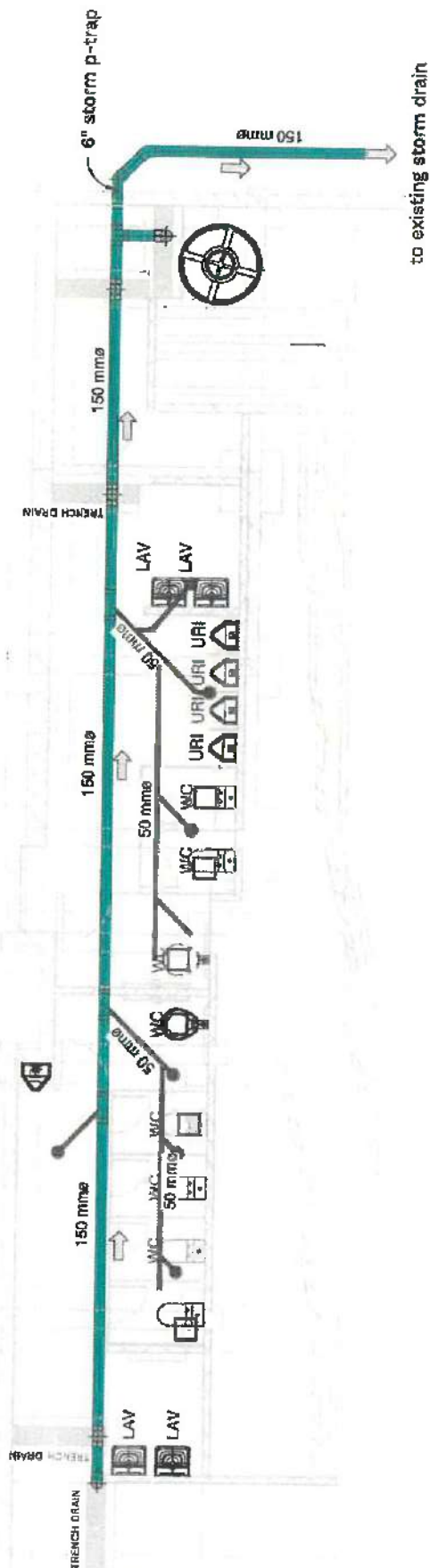
SIZE OF SEPTIC TANK: (28.39 LITERS/DAY X 0.75) + 1125 LITERS = 28387.50 LITERS PER DAY (28.39 CU.M PER DAY)

NO. OF FIXTURES.
 4 LAV X 1 fu = 4
 4 URI X 5 fu = 20
 8 WC X 6 fu = 48
 1 SS X 3 fu = 3
 TOTAL : 75 Fixture Units

PLUMBING NOTES

1 P000 NTS

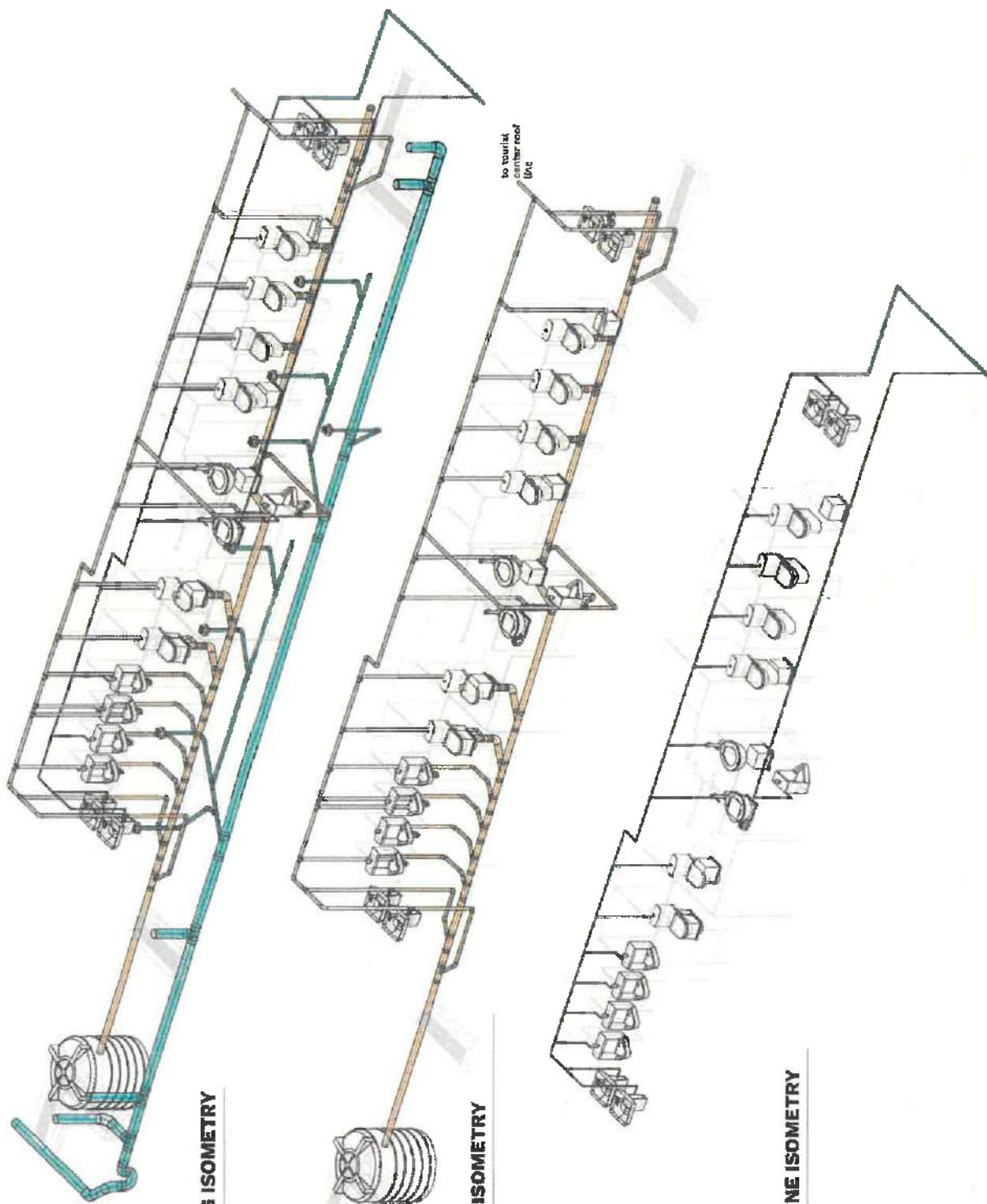
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DESIGNED BY: [Signature]		DATE: [Date]		SCALE: [Scale]		[Blank]		[Blank]		[Blank]	



PUBLIC TOILET STORM DRAIN LAYOUT

1:75

PROJECT NAME		DATE		REVISION		DESCRIPTION		DRAWING		SHEET NUMBER	
ARISTOTILE MARC GO		2019-52		SAGADA TOURIST CENTER AND PUBLIC RESTROOM				Civil		P101	
APRINTING		CHECKED BY:		LOCATION							
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18-520-285-200-500</											



1 FULL PLUMBING ISOMETRY

1	P102
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2 SANITARY LINE ISOMETRY

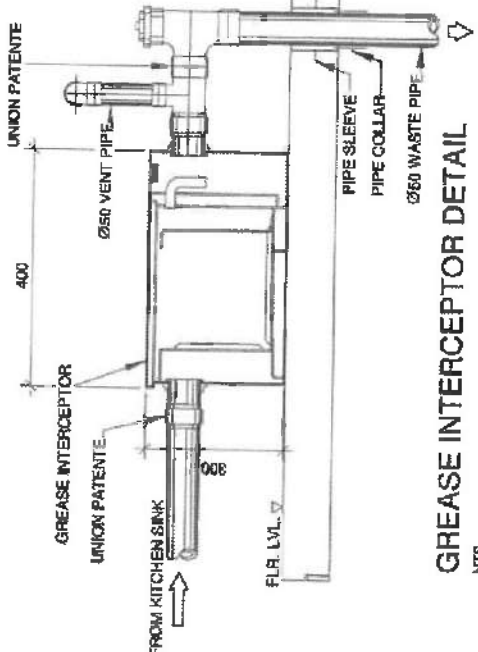
2	P102
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3 COLD WATER LINE ISOMETRY

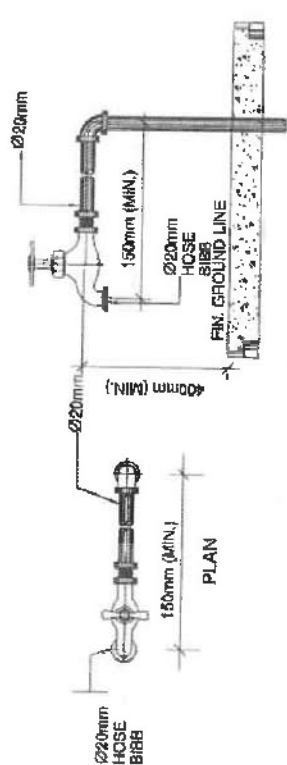
3	P102
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FROM EXISTING WATER SOURCE

PROJECT NAME SAGADA TOURIST CENTER AND PUBLIC RESTROOM SAGADA		DATE 12/4/2020 2:48:30 PM 12/4/2020 2:48:30 PM		OWNER QNTW		PROJECT NUMBER P102	
DESIGNED BY Checker		CHECKED BY Checker		SCALE @ A3		REVISIONS 1. 12/4/2020 2:48:30 PM 2. 12/4/2020 2:48:30 PM	
PROJECT LOCATION SAGADA		PROJECT TYPE SAGADA		PROJECT STATUS 100%		PROJECT DESCRIPTION SAGADA	
PROJECT NO. 100%		PROJECT NO. 100%		PROJECT NO. 100%		PROJECT NO. 100%	

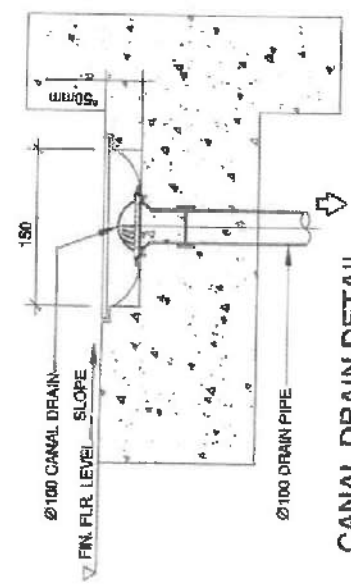


GREASE INTERCEPTOR DETAIL
NTS

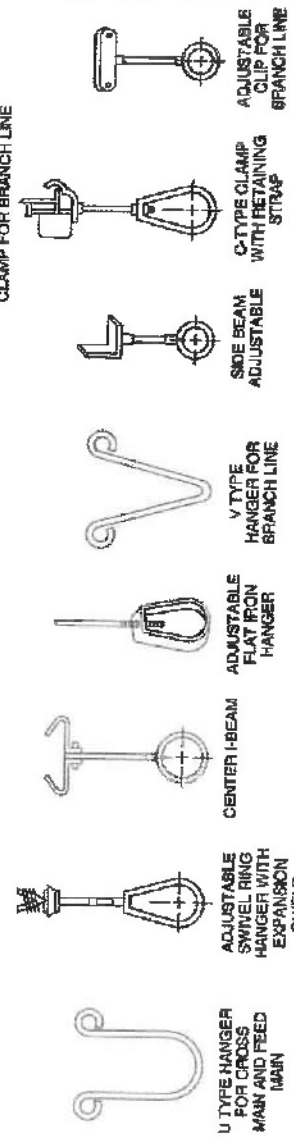


HOSE BIBB DETAIL
NTS

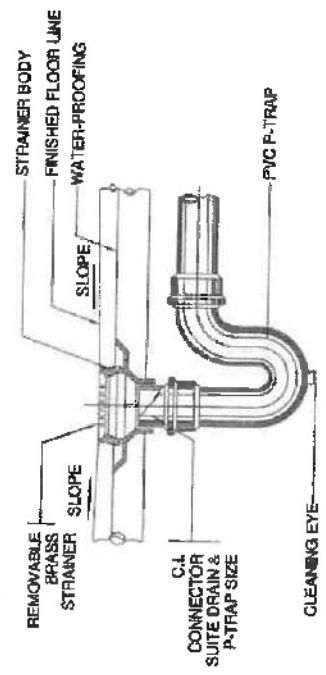
SECTION



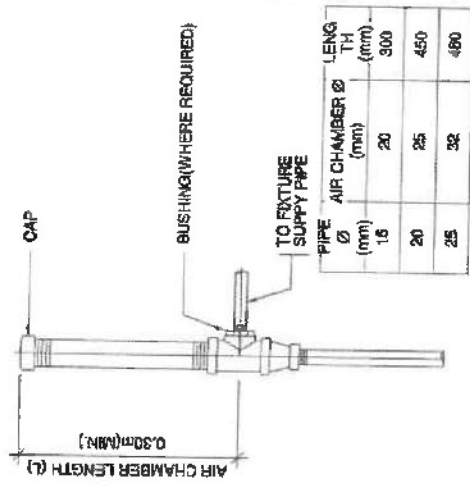
CANAL DRAIN DETAIL
NTS



ACCEPTABLE TYPES PIPE HANGERS
NTS

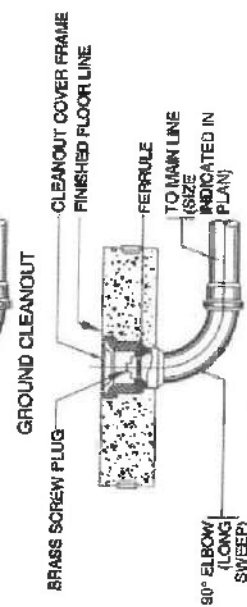
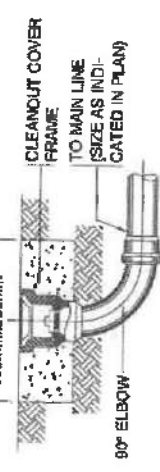


FLOOR DRAIN DETAIL
NTS



AIR CHAMBER DETAIL
NTS

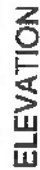
PIPE Ø (mm)	AIR CHAMBER Ø TH (mm)	LENG. TH (mm)
15	20	300
20	25	450
25	32	450



CLEANOUT DETAIL
NTS

1	PLUMBING DETAILS	NTS
F501		

PROJECT NO. 2019-32		PROJECT TITLE SAGADA TOURIST CENTER AND FIELD RESTROOM	
DESIGNED BY: Chackar		LOCATION: SAGADA	
DATE: 14 DEC 2019		SCALE: NTS @ A3	
PROJECT NO. 2019-32		PROJECT TITLE SAGADA TOURIST CENTER AND FIELD RESTROOM	
DESIGNED BY: Chackar		LOCATION: SAGADA	
DATE: 14 DEC 2019		SCALE: NTS @ A3	
PROJECT NO. 2019-32		PROJECT TITLE SAGADA TOURIST CENTER AND FIELD RESTROOM	
DESIGNED BY: Chackar		LOCATION: SAGADA	
DATE: 14 DEC 2019		SCALE: NTS @ A3	



PLUMBING DETAIL OF CYLINDRICAL SEPTIC TANK

1 p503

MODEL	PS-1
POPULATION EQUIVALENT (All Waste)	
1. Household**	6
2. Office/Factories/ Schools **	24
EFFECTIVE VOLUME	Liters
	1200
INLET/OUTLET DIAMETER	mm
	100
DETENTION TIME	mm
	>24
DIMENSIONS	
A	mm diameter
	1260
B	mm
	1330
C	mm
	210
D	mm
	260
E	mm
	510 dia
F	mm
	310 dia

* BASED ON DESIGN FLOW OF 200 LITERS / PERSON / DAY

[illegible]

A. GENERAL NOTES

1. GENERAL NOTES & TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.

- ### B. REINFORCED CONCRETE NOTES

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH	DENSITY	MAX. SLUMP
FOUNDATION	PILES			
	FOOTING TIE BEAMS	4000 PSI	150 PCF	4" (100mm)
GROUND TO ROOF	SLAB, BEAM'S			
	COLUMNS, RAMPS RC WALLS RETAINING WALLS	4000 PSI	150 PCF	5" (125mm)

ITEMS	AGGREGATE SIZE
FOOTING TIE BEAM	3/4" (19mm)
SLAB BEAMS, COLUMNS, RAMPS RC WALLS, RETAINING WALLS	3/4" (19mm)
CURBS & MASS CONCRETE	1" (25mm)

- ### C. REINFORCING STEEL

DIA. OF BARS	GRADE (FY)	ASTM
DIA. 20 AND SMALLER	GRADE 40 (40,000 psi.)	A615/A615M (DEFORMED)
DIA. 25 AND LARGER	GRADE 40 (40,000 psi.)	A615/A615M (DEFORMED)

8. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE.

2. ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
3. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE-REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY. REINFORCING STEEL NOT CONFORMING TO ASTM A 706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1-79.

- ## D. STRUCTURAL STEEL

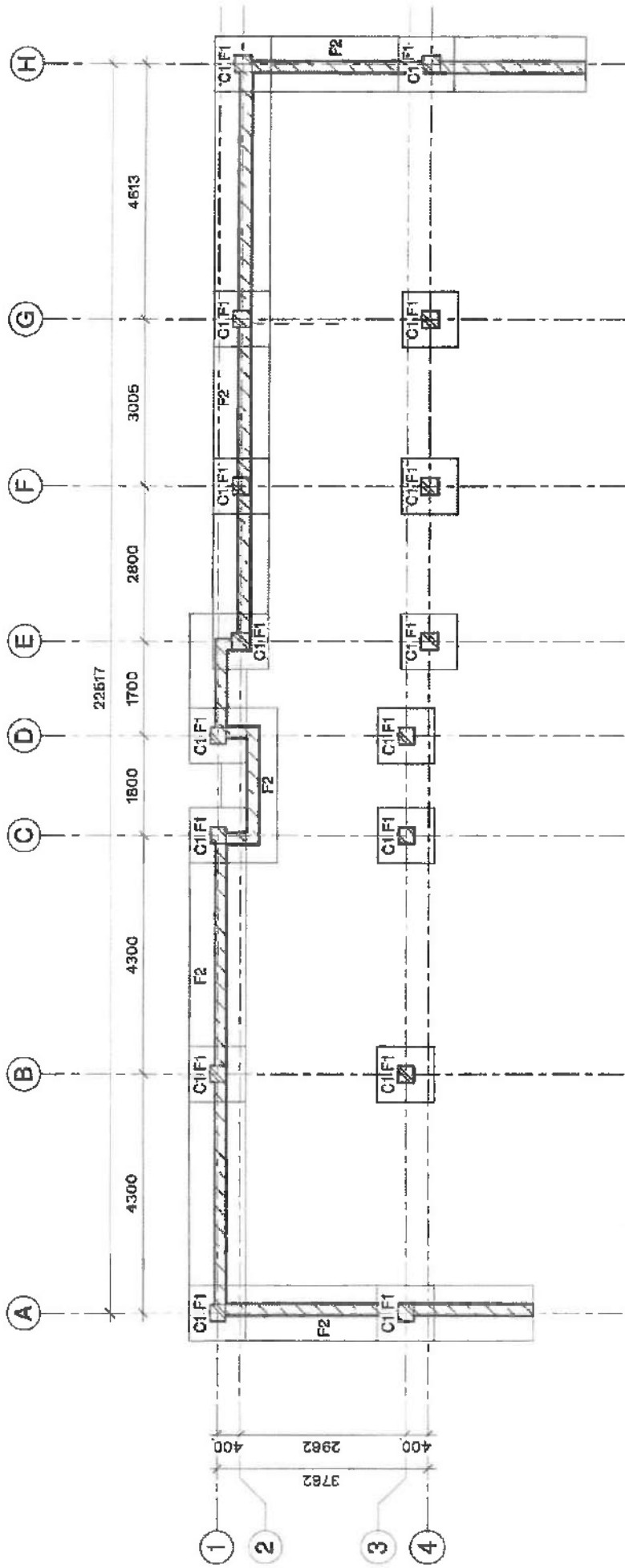
- ## FORMWORKS

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED AS TO INSURE COMPLETED WORK WITH THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE. NO CONSTRUCTED LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS. FORMS SHALL BE REMOVED IN SUCH MANNERS SO AS NOT TO IMPAIR SAFETY AND SERVICE ABILITY OF THE STRUCTURE. SCHEDULE OF STRIPPING OF FORMS AND SHORES.

ITEMS	REMOVAL DAYS
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPAIRED	14 DAYS
COLUMNS / WALLS	2 DAYS
BEAMS	14 DAYS

PROJECT NO. 2015-52 PROJECT TYPE SAGADA TOURIST CENTER AND PUBLIC RESTROOM LOCATION BAGUUA CHECKED BY: CHAIRMAN		PROJECT NAME OWNER SAGADA TOURIST CENTER AND PUBLIC RESTROOM OWNER	
ARCHITECT ARISTOTLE MARGO PROJECT NO. 2015-52 DATE: 14 JAN 2016 PLACE: BAGUUA CITY		SHEET NUMBER S1000	

This Division is the coordinator of all research and development activities for the preparation of new products. It is responsible for the development of new products and the improvement of existing products. It is also responsible for the development of new processes and the improvement of existing processes. It is also responsible for the development of new materials and the improvement of existing materials. It is also responsible for the development of new equipment and the improvement of existing equipment. It is also responsible for the development of new methods and the improvement of existing methods. It is also responsible for the development of new systems and the improvement of existing systems. It is also responsible for the development of new services and the improvement of existing services. It is also responsible for the development of new facilities and the improvement of existing facilities. It is also responsible for the development of new personnel and the improvement of existing personnel. It is also responsible for the development of new information and the improvement of existing information. It is also responsible for the development of new technology and the improvement of existing technology. It is also responsible for the development of new products and the improvement of existing products. It is also responsible for the development of new processes and the improvement of existing processes. It is also responsible for the development of new materials and the improvement of existing materials. It is also responsible for the development of new equipment and the improvement of existing equipment. It is also responsible for the development of new methods and the improvement of existing methods. It is also responsible for the development of new systems and the improvement of existing systems. It is also responsible for the development of new services and the improvement of existing services. It is also responsible for the development of new facilities and the improvement of existing facilities. It is also responsible for the development of new personnel and the improvement of existing personnel. It is also responsible for the development of new information and the improvement of existing information. It is also responsible for the development of new technology and the improvement of existing technology.



FOUNDATION PLAN - PUBLIC RESTROOM

1	A201/S101	1:75
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ARCHITECT ARKISTYLE MARD GO PROJECT NO: 2019-02 DATE: 07/20/2020 DRAWN BY: [Signature] CHECKED BY: [Signature] SCALE: 1:75		PROJECT TITLE SAGADA TOURIST CENTER AND PUBLIC RESTROOM LOCATION: SAGADA		CLIENT OWNER		PROJECT NAME FOUNDATION PLAN - PUBLIC RESTROOM		PROJECT NUMBER S101	
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THIS DOCUMENT IS THE PROPERTY OF ARCHITECT MARD GO. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF ARCHITECT MARD GO.

PROJECT:	SASAKA TOWNHAT CENTER									
ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	Overhead, Contingency and Miscellaneous Expenses DCIM+ PROFIT	VAT(5%)	TOTAL COST	TOTALS
PROJECT:	SASAKA TOWNHAT CENTER									
ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	Overhead, Contingency and Miscellaneous Expenses DCIM+ PROFIT	VAT(5%)	TOTAL COST	TOTALS
01 00 00	DIVISION 01 - GENERAL REQUIREMENTS									
	01 00 00 - Mobilization and Demobilization									
	01 00 00 - Construction Facilities (Camp/Field Office, First Aid Facilities, Sanitary Facilities)									
	01 00 00 - Temporary Barricade and Platform									
	01 00 00 - Lifting and Erection Cost									
	01 00 00 - Equipment and Tools									
	01 00 00 - Safety Provision (See Project Manual for Details)									
	01 00 00 - Cleaning and Waste Management Cost (Progress Cleaning, Site Maintenance, Construction Waste Management and Disposal, Final Cleaning)									
01 50 00	DIVISION 01 SUBTOTAL									
02 00 00	DIVISION 02 - EXISTING CONDITIONS									
	02 00 00 - backfill and Grading Work (WB): all cut soil shall be used for backfilling works	slab on grade	82.67 m³							
	02 00 00 - Excavation Works (cut and backfill): all cut soil shall be used for backfilling works	footing, beams etc, retaining walls	87.64 m³							
	02 00 00 - Excavation Works (cut)		m²							
	02 00 00 - Excavation for Sumps Tanks and plumbing lines		m²							
02 50 00	DIVISION 02 SUBTOTAL									
03 00 00	DIVISION 03 - CONCRETE									
	03 00 00 - CONCRETE FORMS AND ACCESSORIES @ BUMP									
	03 00 00 - Formwork Rental for Cast-In-Place retaining wall, in 1/2" plywood boards with 1-1/2" pipe braces spaced every 600mm/clamped; including shoring pipes and accessories	retaining wall	340.88 m²							
	03 00 00 - Formwork Rental for Cast-In-Place columns in 1/2" plywood boards with 1-1/2" pipe braces spaced every 600mm/clamped	columns	74.88 m²							
	03 00 00 - Formwork Rental for Cast-In-Place suspended slabs in 1/2" plywood boards with 1-1/2" pipe braces spaced every 600mm/clamped including shoring and accessories	suspended slab	75.00 m²							
	03 00 00 - Formwork Rental for Cast-In-Place grade beams in 1/2" plywood boards with 1-1/2" pipe braces spaced every 600mm/clamped including shoring and accessories	grade beams	73.00 m²							
03 50 00	DIVISION 03 SUBTOTAL									
04 00 00	DIVISION 04 - PUBLIC RESTROOM									
	04 00 00 - FOUNDATION									
	04 00 00 - F1 - 1000x600x400mm 3500psi (24.1MPa) Concrete Wall Footing 600mm below Level 1		6.40 m³							
	04 00 00 - 20mm reinforcement bars spaced at every 200mm OC both ways		454.45 kg							
	04 00 00 - F2 - 1000x300mm 3500psi (24.1MPa) Concrete Wall Footing 600mm below Level 1		7.68 m³							
	04 00 00 - 20mm reinforcement bars spaced at every 200mm OC both ways		837.88 kg							
	04 00 00 - F3 - 300mmx300mm Cast-In-Place 500psi (3.71MPa) Concrete Grade Beam		6.75 m³							
	04 00 00 - 20mm reinforcement bars Ø40 include 10 Gauge Ø10 wires		288.88 kg							
	04 00 00 - 12mm reinforcement bars Ø40 include 10 Gauge Ø10 wires		187.84 kg							
	04 00 00 - REINFORCED WALL									
	04 00 00 - Wall Type 01a 200mm 600psi (3.71MPa) Cast-In-Place Concrete Retaining Wall		32.22 m³							

SABALA TOURIST CENTER										
ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	Overhead, Contingency and Miscellaneous Expenses 10%+ PROFIT	%AT(8%)	TOTAL COST	TOTALS
04 00 00	12 mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires	TOILET	3,787.88	KG	P48.00	P18.30	P187,360.91	P37,670.48	P11,241.05	P236,082.36
	25mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P2,600.00	P1,140.00	P23,396.40	P4,859.08	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
04 00 00	12 mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires	TOILET AND BATH	3,787.88	KG	P48.00	P18.30	P187,360.91	P37,670.48	P11,241.05	P236,082.36
	25mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P2,600.00	P1,140.00	P23,396.40	P4,859.08	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
	12mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P48.00	P18.30	P26,767.59	P3,853.42	P1,751.22	P49,786.30
04 00 00	12 mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires	TOILET AND BATH	3,787.88	KG	P48.00	P18.30	P187,360.91	P37,670.48	P11,241.05	P236,082.36
	25mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires		1,440.00	KG	P2,600.00	P1,140.00	P23,396.40	P4,859.08	P1,751.22	P49,786.30
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04 00 00	12 mm#1 Reinforcement bars 640 at 200mm OC Include 16 Gauge 61 dia wires	TOILET AND BATH	3,787.88	KG	P48.00					

[illegible]

[illegible]

PROJECT:	SARADA TOURIST CENTER									
ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	Overhead, Contingency and Miscellaneous Expenses 10% of PROFIT	VAT(6%)	TOTAL COST	TOTALS
22 00 00	DIVISION 22 TOTAL									₹575,842.00
22 00 00	CONCRETE 20- ELECTRICIAL									
	At Lighting Includes termination- color temperature to be determined upon approval of producer	Level 1 - Restrooms	1 pc	₹1,250.00	₹1,850.00	₹3,100.00	₹2,970.00	₹1,533.50	₹4,503.50	
22 06 39	Feeder Wire System									
	THHN Electrical Wire 3.5 mm² (Phase Dodge or equivalent)		100.00 Un	₹25.00	₹7.50	₹325.00	₹492.50	₹160.13	₹977.63	
	THHN Electrical Wire 14 mm² (Phase Dodge or equivalent)		60.00 Un	₹65.00	₹25.50	₹905.00	₹1,127.70	₹387.26	₹1,414.96	
	Pedestal Pole		1.00 Assy	₹25,000.00	₹7,500.00	₹32,500.00	₹6,250.00	₹1,597.25	₹38,347.25	
	Electrical Installation Accessories (Grounding, Electrical Tape, Connectors, And etc)		1.00 lot	₹18,141.45	₹4,342.44	₹22,483.89	₹3,257.28	₹1,271.56	₹25,772.70	
22 06 39	Recessed and Recess for Electrical Systems									
	Lighting and Power System									
	1/2"Ø EMT Pipe		10.00 pcs	₹215.00	₹64.50	₹1,789.00	₹475.15	₹153.51	₹2,417.66	
	1"Ø EMT Pipe		3.00 pcs	₹350.00	₹108.00	₹1,404.00	₹230.89	₹82.13	₹1,714.01	
	1 1/2"Ø PVC Pipe		1.00 pcs	₹283.00	₹75.00	₹358.00	₹0.00	₹0.00	₹358.00	
	1 1/2"Ø PVC Pipe Adapter with Reducer		1.00 pcs	₹24.00	₹7.20	₹31.20	₹0.00	₹0.00	₹31.20	
	1 1/2"Ø PVC Long elbow		1.00 pcs	₹35.00	₹25.50	₹60.50	₹0.00	₹0.00	₹60.50	
	Electrical Installation Accessories (Green,Brown,Blue, Electrical Tape, Connectors, And etc)		1.00 lot	₹22,479.82	₹4,743.06	₹27,222.87	₹4,987.02	₹1,703.51	₹32,912.40	
22 06 39	Electrical Boxes									
	Lighting and Power System									
	Junction Box 6L 1/2" W/ Cover		20.00 pcs	₹45.00	₹13.50	₹1,170.00	₹198.90	₹63.45	₹1,432.35	
	Utility Box 6L		5.00 pcs	₹55.00	₹10.50	₹327.50	₹58.85	₹19.21	₹375.48	
	Square Box 6L 1/2" W/ Cover		1.00 pcs	₹85.00	₹18.50	₹103.50	₹0.00	₹0.00	₹103.50	
22 06 39	Feeder Wire System									
	15"Ø x 15"Ø x 15"Ø Pull Box		1.00 Assy	₹4,500.00	₹1,350.00	₹5,850.00	₹884.50	₹292.23	₹7,026.73	
22 06 39	Conduit/Trunking of Electrical Systems									
	Trunking and Conduit/Trunking of electrical systems		1.00 lot	₹30,000.00	₹9,000.00	₹39,000.00	₹5,100.00	₹1,765.00	₹43,865.00	
22 24 16	Switchboard and Panelboards									
	BP-40000		1.00 Assy	₹64,387.00	₹6,438.70	₹70,825.70	₹8,177.83	₹2,423.02	₹84,436.55	
	PANEL BOARD with meter and ground terminals, surface mounted , NEMA 1 and									
	Main: 80AT/250AF/3P, 400V, 32 kva									
	Branches:									
	1 - 15AT/100 AF/3P, 400V, 16 kva									
	1 - 20AT/100 AF/3P, 400V/16 kva									
	1 - Splice									
22 24 16	Wiring Devices									
	1 gang switch with plate cover Schneider		3.00 sets	₹147.60	₹50.00	₹595.20	₹89.28	₹29.03	₹703.51	
	2 gang switch with plate cover Schneider		3.00 sets	₹258.00	₹80.00	₹996.00	₹149.40	₹49.80	₹1,195.20	

PROJECT: SAGADA TOURIST CENTER

ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY	UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	Overhead, Contingency and Miscellaneous Expenses GCN + PROFIT	VAT (5%)	TOTAL COST	TOTALS
28 01 00	Interior Lighting 18 LED TUBE LIGHT, Daylight Emergency Light, Wall Nournd, Led Lamp, Battery Backup Electrical Installation Accessories (Wire, Switch, Nuts, Electrical Tape, Conduits, And etc)		18.00	sets	P540.00	P20.00	P9,480.00	P1,554.80	P57.73	P10,872.53	
			2.00	sets	P2,500.00	P50.00	P5,100.00	P857.00	P258.35	P5,356.35	
			1.00	lot	P18,570.00	P50.00	P18,620.00	P3,355.40	P1,477.77	P24,102.17	
28 00 00	DAYROOM 28- ELECTRICAL										P123,378.79
	GRAND TOTAL									P4,293,433.21	P4,293,433.21

Prepared by:

Arnel Arsenale J. Op
Consultant

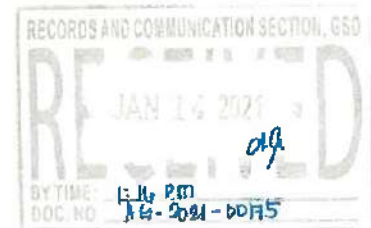


REPUBLIC OF THE PHILIPPINES
MOUNTAIN PROVINCE

MUNICIPALITY OF SAGADA

Office of the Municipal Mayor

Hon. BERNADETTE ROMULO-PUYAT
Secretary, Department of Tourism
New D.O.T. Bldg., 351 Gen. Gil Puyat Avenue
1200 Makati City



Thru: Atty. EDWIN R. ENRILE
Undersecretary for Legal and Special Concerns and Chief of Staff

COO POCHOLO D. PARAGAS

Tourism Infrastructure and Enterprise Zone Authority (TIEZA)


Dear Ma'am;

Respectfully transmitting herewith Sangunlang Bayan Resolution No. 220-2020, A RESOLUTION REQUESTING THE DEPARTMENT OF TOURISM THRU ITS GOOD SECRETARY HON. BERNADETTE ROMULO PUYAT TO ESPOUSE THE ALLOCATION OF FUNDS AMOUNTING TO ONE HUNDRED TWENTY FIVE MILLION (125,000,000.00) PESOS FOR THE CONSTRUCTION OF A TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PASSING THROUGH THE SITIOS OF DAO-ANGAN, KINLEBED, IGI, ECO-VALLEY AND LATANG UNDERGROUND RIVER, AND SAGADA INTER-VILLAGE PATHWAYS LEADING TO DAP-AYS AND THE INDIGENOUS HERITAGE SITES AT SAGADA, MOUNTAIN PROVINCE.

The approval of the allocation of funds for the improvement and enhancement of pathways leading to popular tourist sites will provide ease and comfort to tourists who travel to enjoy eco-tourism activities in Sagada. This will favorably increase the volume of tourist arrival in the municipality thereby benefitting the majority of our constituents whose source of income is derived from tourism-related activities.

We hope that this request will merit your most favorable consideration.

Very respectfully yours,


JAMES B. POUTEN JR.

Municipal Mayor

cc: Jovita A. Ganongan, Regional Director, CAR, DOT
CSMV Vestry

sagada.mayor@yahoo.com | sagada.mayor@gmail.com

Poblacion, Sagada, Mountain Province

ZIP CODE:
2619



Republic of Philippines
Province of Mountain
Municipality of Sagada

OFFICE OF THE SANGGUNIANG BAYAN

Patay, Sagada, Mt. Province

E-mail |

sb.sagada2169@gmail.com

RESOLUTION NO. 220 - 2020

INTRODUCED BY THE COMMITTEE ON INFRASTRUCTURE

A RESOLUTION

REQUESTING THE DEPARTMENT OF TOURISM THRU ITS GOOD SECRETARY HON. BERNADETTE ROMULO PUYAT TO ESPOUSE THE ALLOCATION OF FUNDS AMOUNTING TO ONE HUNDRED TWENTY-FIVE MILLION (125,000,000.00) PESOS FOR THE CONSTRUCTION OF A TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PASSING THROUGH THE SITIOS OF DAO-ANGAN, KINLEBED, IGI, ECO-VALLEY AND LATANG UNDERGROUND RIVER, AND SAGADA INTER-VILLAGE PATHWAYS LEADING TO DAP-AYS AND THE INDIGENOUS HERITAGE SITES AT SAGADA, MOUNTAIN PROVINCE.

WHEREAS, the municipality of Sagada being among the top tourist destination in Northern Luzon is gifted with natural and man-made attractions emplaced in its steep geographical contours;

WHEREAS, Sagada, despite being in the tourist's checklist, still faces issues on the distance and rigidity of access to the different tourist spots;

WHEREAS, to address the issue, development of trails as access facilities that connects the spots to highways is perceived necessary to further promote tourism in the municipality that will at the same time benefit the residents of the areas;

WHEREAS, the proposed project will help realize Municipal Ordinance No. 03 - 2019 mandating a modified park and walk scheme for tourist coming to Sagada, as it will help minimize traffic congestion along the central areas and barangays of the municipality;

NOW THEREFORE, be it.

RESOLVED AS IT IS HEREBY DONE by the Sangguniang Bayan in a regular session assembled to;

- 1) To request the Department of Tourism through its good secretary Hon. Bernadette Romulo Puyat to espouse the allocation of funds for pathway projects:
 - a) Construction of a tourism covered pathways with hanging bridges passing through the sitios of Dao-angan, Kinlebed, Igi, Eco-valley and Latang Underground River amounting to 75,000,000 pesos;
 - b) Sagada inter-village pathways (with railings) leading to Dap-ays and the indigenous heritage sites in the amount of 50,000,000 pesos.
- 2) Forward copy of this resolution to the Office of the Tourism Infrastructure and Enterprise Zone Authority through Chief Operating Officer and General Manager Pocholo Paragas for their favorable action and consideration.

RESOLVED FURTHER, that copy of this resolution shall be forwarded to other offices concerned for their information and reference.

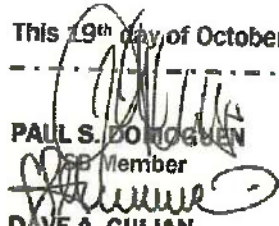
220-2020 MUNICIPAL RESOLUTION

SANGGUNIANG BAYAN

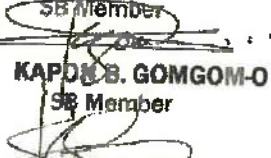
SAGADA



This 19th day of October 2020 at Sagada, Mountain Province.

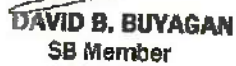

PAUL S. DOROGUEN
SB Member



DAVE A. GULIAN
SB Member


KAPOS B. GOMGOM-O
SB Member


JAIME B. DUGAO
SB Member - IPMR


BENJAMIN G. CAPUYAN
SB Member


DAVID B. BUYAGAN
SB Member


EZRA C. WADINGAN
SB Member

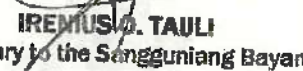

FERMIN S. LOMBAYA
SB Member


DAVID A. BELEO JR.
SB Member


JOHN A. BAGSINGIT
SB Member - ABC President

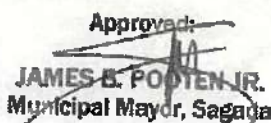

JEREVAL M. LAWAGEY
SB Member - SK Federation

I hereby certify that the above resolution was adopted by the Sangguniang Bayan on session assembled dated October 19, 2020.


IRENIUS O. TAULI
Secretary to the Sangguniang Bayan

Attested:

FELICITO O. DULA
Municipal Vice Mayor, Sagada

Approved:

JAMES B. POOTEN JR.
Municipal Mayor, Sagada

Republic of the Philippines
MOUNTAIN PROVINCE
SAGADA

OFFICE OF THE MUNICIPAL ENGINEER

Date _____

PROGRAM OF WORK

Name and Location Of Project	Source of Fund	Project Description
CONSTRUCTION OF COVERED PATHWAYS WITH HANGING BRIDGES PATAY, Sagada, Mountain Province	FOR FUNDING	SIDEWALK, SUSPENSION FOOTBRIDGE

1. EQUIPMENT TO BE USED


Equipment on Hand : Various Handtools Desirable starting date: Upon Approval
Equipment to be Acquired: 1 Unit 1 bagger mixer WELDING MACHINE
JACK HAMMER SPEED CUTTER

2. ESTIMATE OF COST PROPOSED WORK

ITEM NO.	SCOPE OF WORK TO BE DONE/DESCRIPTION	% TOTAL	UNIT	QTY.	UNIT COST	TOTAL COST
ITEM 001:	PROVISION FOR SAFETY AND HEALTH PROGRAM	1.56%	lot	1	lumpsum	1,163,030.4
SPL ITEM 1:	EXCAVATION, CLEARING AND SITE PREPARATION	2.02%	lot	1.00	lumpsum	1,514,898.0
ITEM 404:	REINFORCING STEEL BARS	2.40%	kgs	5990.52	300.29	1,798,902.0
ITEM 405:	CONCRETE WORKS	13.05%	cu.m.	609.3	16,065.5	9,788,940.4
ITEM 506:	MASONRY WORKS(100mm thk CHB)	0.19%	sq.m.	86.68	1,446.31	139,800.1
ITEM 1027:	CEMENT PLASTER FINISH	0.19%	sq.m.	215.58	1,031.97	140,382.6
ITEM 1021:	CEMENT FLOOR TOPPINGS	0.06%	sq.m.	60.00	719.63	43,177.7
ITEM 1018:	FLOOR TILES	0.08%	sq.m.	60.00	943.11	56,586.6
ITEM 1009:	DOORS AND WINDOWS	0.25%	Lot	1.00	lumpsum	185,472.0
ITEM 1002(3)a:	SANITARY FIXTURES	0.44%	Lot	1.00	lumpsum	327,151.4
ITEM 1002(1)a:	WATERLINE PIPES(GI pipe)	0.58%	Lot	1.00	lumpsum	433,137.6
ITEM 1002(2)a:	SEWERLINE PIPES(PVC)	0.12%	Lot	1.00	lumpsum	87,186.8
ITEM 403(1)b:	ROOF FRAMING	14.22%	Lot	1.00	lumpsum	10,665,081.0
ITEM 1013:	ROOFING	16.87%	lot	1.00	lumpsum	12,655,503.0
ITEM SPL2:	RAILLINGS	4.13%	mtrs	3000.00	1,031.97	3,095,920.8
ITEM SPL3:	SUSPENSION FOOTBRIDGE	43.87%	mtrs	220.00	149,567.50	32,904,849.6
TOTAL		100.0%			P	75,000,000.0

3. BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
1. DIRECT COST		
A. Materials		
1. Supply/Delivery/Hauling	60.29%	P 45,220,817.5
B. Labor		
1. Direct Labor	18.70%	P 14,027,180.0
C. Equipment		
1. Equipment Rental	0.50%	P 378,372.0
2. INDIRECT COST		
1. O.C.M., C.P. & V.A.T.	20.50%	P 15,373,630.5
3. PROJECT MANAGEMENT/ SUPERVISION		
1. Admin Cost	0.00%	P (0.0)
TOTAL PROJECT COST/TPC	100.00%	P 75,000,000.0

PREPARED by:


SHERWIN A. TALBI
Engineer 1

CHECKED by:


CIANO B. BALDO
Municipal Engineer

APPROVED by:


JAMES B. POOTEN, JR.
Municipal Mayor

DETAILED COST ESTIMATE
CONSTRUCTION OF COVERED PATHWAYS WITH HANGING BRIDGES
PATAY, Sagada, Mountain Province

DERIVATION OF MATERIAL COST

1 Cement

Source: BONTOC

Price from source and freight

P 300.00 /bag

average manual hauling

P 50 /bag

Total cost per bag @ project site

P 350.00 /bag

2 Gravel and Boulders

Source : BONTOC

Stockpiling Price:

P 1000 /cu.m.

Hauling and Stockpiling

Hauling distance : 21 kms(one way)

42.00 kms(rnd trip)

Average speed w/o load

15.00 kph

Average speed w/ load

10.00 kph

Average travel time w/o load

96.00 mins.

Average travel time w/ load

126.00 mins.

Load and unloading time

10.00 mins.

Slack and maneuvering time

6.00 mins.

TOTAL TIME TRAVELED

238.00 mins.

Number of trips per day

2.00 trips

Utilizing 1- unit dumptruck: capacity

4.00 cu.m.

Total volume delivered per day

8.00 cu.m.

Equipment rental per day

P 9,016.00 /day

Unit hauling cost per cu.m.

P 1,127.00 /cu.m.

Manual hauling cost from nearest accessible road to

project site @ P 50 /can

P 3,000.00 /cu.m.

P 4,127.00 /cu.m.

P 1,000.00 /cu.m.

TOTAL COST @ PROJECT SITE

P 5,127.00 /cu.m.

say

P 6,127.00 /cu.m.



DETAILED COST ESTIMATE
CONSTRUCTION OF COVERED PATHWAYS WITH HANGING BRIDGES
PATAY, Sagada, Mountain Province

ITEM 001:

PROVISION FOR SAFETY AND HEALTH PROGRAM

Quantity = 1 lot

A. Materials:

1 -lot	first aid medicine	@ P	lumpsum	5,000.00
1 -unit	tarpaulin	@ P	600 /unit	600.00
1 -lot	safety equipments	@ P	lumpsum	20,000.00
sub-total				25,600.00

B. Labor:

1	first aider	@ P	lumpsum	1,000,000.00
sub-total				1,000,000.00

Total Direct Cost				1,025,600.00
ADD:	8% CP			82,048.00
sub total				1,107,648.00
5% VAT, BIR, TAX				55,382.40
Total Indirect Cost				137,430.40
ITEM COST				1,163,030.40
Unit Cost				lumpsum

SPL ITEM 1:

EXCAVATION, CLEARING AND SITE PREPARATION

Quantity = 1 lot

A. Materials:

B. Labor:

1	-Const'n foreman	@ P	581 /day for 300 days	174,300.00
10	-Laborers	@ P	326 /day for 300 days	978,000.00
subtotal				1,152,300.00

C. Equipment

2	-unit	jack hammer	@ P	1000 /day for	300 days	50,000.00
sub-total						50,000

Total Direct Cost				1,202,300.00
ADD:	8% CP			96,184.00
	12% OCM			144,276.00
Sub-total				1,442,760.00
5% VAT				72,138.00
Total Indirect Cost				312,598.00
ITEM COST				1,514,898.00
Unit Cost				lumpsum

ITEM 404:

REINFORCING STEEL BARS

Quantity = 5990.52 kgs

A. Materials:

200	-pcs	-20mmΦ x 7.5m RSB	@ P	750 /pc	150,000.00
48	-pcs	-16mmΦ x 7.5m RSB	@ P	450 /pc	21,600.00
120	-pcs	-16mmΦ x 6m RSB	@ P	400 /pc	48,000.00
620	-pcs	-10mmΦ x 6m RSB	@ P	170 /pc	105,400.00
2	-pcs	-speed outler blade	@ P	500 /pc	1,000.00
50	-kgs	- # 16 G.I. tie wire	@ P	95 /kg	4,750.00
subtotal					330,750.00

B. Labor:

gang output: 40 kgs/day				
1	-Const'n Foreman	@ P	581 /day for 150 days	87,150.00
2	-skilled laborer	@ P	421 /day for 150 days	126,300.00
15	-Laborer	@ P	326 /day for 150 days	733,500.00
subtotal				946,950.00

C. Equipment

1	-unit	speed cutter(includes electric power)	1000 /day for 150 days	150,000.00
subtotal				150,000.00

Total Direct Cost				1,427,700.00
ADD:	8% CP			114,216.00
	12% OCM			171,324.00
Sub-total				1,713,240.00
5% VAT, BIR TAX				85,662.00
Total Indirect Cost				371,202.00
ITEM COST				1,798,902.00
Unit Cost				300.29

ITEM 405:

CONCRETE WORKS

Quantity = 609 cu.m.

A. Materials:

5546	-bags	Portland cement	@ P	350 /bag	1,941,018.28
306	-cu.m.	Fine Aggregates	@ P	5,127 /cu. m.	1,567,106.00
609.32	-cu.m.	Coarse Aggregates	@ P	5,127 /cu. m.	3,123,958.01
sub-total					6,632,082.28

B. Labor:

gang output= 5 cu.m./day				
1	-Const'n foreman	@ P	581 /day for 122 days	70,882.00
2	-Skilled Carpenters	@ P	421 /day for 122 days	102,724.00
20	-Laborers	@ P	326 /day for 122 days	795,440.00
subtotal				969,046.00

C. Material					
1 -unit	1 bagger mixer	@P	1376 /day for	122 day---	167,872
					sub-total-----
					167,872
					Total Direct Cost-----
					7,769,000.28
ADD:					8% CP-----
					621,520.02
					12% OCM-----
					932,280.03
					Sub-total-----
					9,322,800.34
					5% VAT,BIR TAX-----
					466,140.02
					Total Indirect Cost-----
					2,019,940.07
					ITEM COST-----
					9,788,940.36
					Unit Cost-----
					16,065.46
<hr/>					
ITEM 1005:	MASONRY WORKS(100mm thk CHB)				
	Quantity =	96.7 sq.m.			
A. Materials:					
1,209 -pcs	CHB-4"x8"x16"	@ P	20 / pc		24,180.00
78 -bag	Portland Cement	@ P	350 / bag		27,300.00
5.2 -cu.m.	River Sand	@ P	5,127 /cu.		26,752.48
3.0 -pcs	hack saw blade	@ P	100 /pc		300.00
88 -pcs	10 mmØ x6 m RSB	@ P	140 /pc		12,320.00
15 -kg	#16 Tie wire	@ P	95 /kg.		1,425.00
					sub-total-----
					92,277.48
B. Labor:					
	gang output=	12 sq.m/day			
1 -Construction Foreman		@ P	581 /day for	9 day---	5,229.00
2 -Skilled Laborer		@ P	421 /day for	9 day---	7,578.00
2 -Laborers		@ P	326 /day for	9 day---	5,868.00
					sub-total-----
					18,675.00
					Total Direct Cost-----
					110,952.48
ADD:					8% CP-----
					8,876.20
					12% OCM-----
					13,314.30
					Sub-total-----
					133,142.96
					5% VAT,BIR TAX-----
					6,657.15
					Total Indirect Cost-----
					28,847.85
					ITEM COST-----
					139,800.13
					Unit Cost-----
					1,446.31
<hr/>					
ITEM 1027:	CEMENT PLASTER FINISH			(25mm thk)	
	Quantity =	216 sq.m.			
A. Materials:					
102 -bag	Portland Cement	@ P	350 / pc		35,700.00
6.8 -cu.m.	River Sand	@ P	5,127 /cu.m		34,809.77
					sub-total-----
					70,509.77
B. Labor:					
	gang output=	15 sq.m/day			
1 -Construction Foreman		@ P	581 /day for	15 day---	8,715.00
2 -Skilled Laborer		@ P	421 /day for	15 day---	12,630.00
4 -Laborers		@ P	326 /day for	15 day---	19,560.00
					sub-total-----
					40,905.00
					Total Direct Cost-----
					111,414.77
ADD:					8% CP-----
					8,913.18
					12% OCM-----
					13,369.77
					Sub-total-----
					133,697.7
					5% VAT,BIR TAX-----
					6,684.89
					Total Indirect Cost-----
					28,967.84
					ITEM COST-----
					140,382.6
					Unit Cost-----
					651.19
<hr/>					
ITEM 1021:	CEMENT FLOOR TOPPINGS			(50mm thk)	
	Quantity =	60 sq.m.	3 cu.m		
A. Materials:					
28 -bag	Portland Cement	@ P	350 / pc		9,800.00
4.00 -cu.m.	River Sand	@ P	5,127 / pc		20,508.00
					sub-total-----
					30,308.00
B. Labor:					
	gang output=	50 sq.m/day			
1 -Construction Foreman		@ P	581 /day for	2 day---	1,162.00
1 -Skilled Laborer		@ P	421 /day for	2 day---	842.00
3 -Laborers		@ P	326 /day for	2 day---	1,956.00
					sub-total-----
					3,960.00
					Total Direct Cost-----
					34,268.00
ADD:					8% CP-----
					2,741.44
					12% OCM-----
					4,112.16
					Sub-total-----
					41,121.8
					5% VAT,BIR TAX-----
					2,056.08
					Total Indirect Cost-----
					8,909.68
					ITEM COST-----
					43,177.7
					Unit Cost-----
					719.63
<hr/>					
ITEM 1018:	FLOOR TILES				
	Quantity =	80 sq.m.			
A. Materials:					
378 -pcs.	1'by1'ceramic floor tiles	@ P	80 / pc		30,080.00
10 -bag	tile adhesive(25kg/bag)	@ P	250 / pc		2,500.00
31 -bags	tile grout(1kg/bag)	@ P	130 / pc		4,030.00

		sub-total	36,810.00
B. Labor:	gang output=	15.6 sq.m/day	
1 -Construction Foreman	@ P	581 /day for 4 day	2,324.00
2 -Skilled Laborer	@ P	421 /day for 4 day	3,368.00
2 -Laborers	@ P	326 /day for 4 day	2,608.00
		sub-total	8,300.00
		Total Direct Cost	44,910.00
ADD:		8% CP	3,592.80
		12% OCM	5,389.20
		Sub-total	53,892.0
		5% VAT,BIR TAX	2,694.60
		Total Indirect Cost	11,678.80
ITEM COST			56,586.6
Unit Cost			943.11

ITEM 1009: DOORS AND WINDOWS

Quantity = 1 Lot

A. Materials:

18 -pcs.	.9 by 1.7m built in analok white coated window(with complete accessories)	@ P	6000 /sq.ft	108,000.00
4 -pcs.	.9m by 2m STEEL door with door jamb and complete accessories	@ P	9000 /pc	36,000.00
4 -pcs.	heavy duty door knob(lever type)	@ P	300 /pc	3,200.00
		subtotal		147,200.00

B. Labor: (included in the materials for sight installation)

		Total Direct Cost	147,200.00
ADD:		8% CP	11,776.00
		12% OCM	17,864.00
		Sub-total	176,840.0
		5% VAT,BIR TAX	8,832.00
		Total Indirect Cost	38,272.00
ITEM COST			185,472.0
Unit Cost			lumpsum

ITEM 1002(3)a: SANITARY FIXTURES

Quantity = 1 Lot

A. Materials:

18 -pcs.	standard water closet with flush tank(with complete accessories)	@ P	12000 /pc	216,000.00
6 -pcs.	standard urinal with flush tank(with complete accessories)	@ P	4000 /pc	24,000.00
4 -pcs.	standard lavatory(w/ complete accessories)	@ P	4000 /pc	16,000.00
1 -lot	miscellaneous materials	@ P	2000 /pc	2,000.00
		subtotal		258,000.00

B. Labor:

1 -Construction Foreman	@ P	581 /day for 1 day	581.00
1 -skilled	@ P	421 /day for 1 day	421.00
2 -Laborers	@ P	321 /day for 1 day	642.00
		subtotal	1,644.00

		Total Direct Cost	259,644.00
ADD:		8% CP	20,771.52
		12% OCM	31,157.28
		Sub-total	311,572.80
		5% VAT,BIR TAX	15,578.64
		Total Indirect Cost	87,507.44
ITEM COST			327,151.44
Unit Cost			lumpsum

ITEM 1002(1)a: WATERLINE PIPES(GI pipe)

Quantity = 1 Lot

A. Materials:

12 -pcs.	-Stainless 1/2 FAUCET	@ P	300 /pc	3,600.00
8 -pcs.	-1/2" GI tee	@ P	50 /pc	400.00
10 -pcs.	-tapelone	@ P	50 /pc	500.00
500 -pcs.	- 1/2" GI coupling	@ P	50 /pc	25,000.00
3 -pcs.	reducer(1" to 1/2")	@ P	80 /pc	240.00
4 -pcs.	1/2" nipple	@ P	50 /pc	200.00
4 -pcs.	1" GI pipe(s40)	@ P	1000 /pc	4,000.00
500 -pcs.	1/2" GI PIPES(s40)	@ P	500 /pc	250,000.00
		subtotal		283,940.00

B. Labor:

1 -Construction Foreman	@ P	581 /day for 30 day	17,430.00
1 -skilled	@ P	421 /day for 30 day	12,630.00
2 -Laborers	@ P	321 /day for 30 day	19,260.00
		subtotal	49,320.00

C. Equipment

1 -set	GI threader	@ P	350 /day for 30 day	10,500.00
		subtotal		10,500.00

		Total Direct Cost	343,760.00
ADD:		8% CP	27,500.80
		12% OCM	41,251.20
		Sub-total	412,512.00

	Total Direct Cost	2,457,060.00
ADD:	8% CP	196,566.40
	12% OCM	294,849.60
	Sub-total	2,948,486.00
	5% VAT, BIR TAX	147,424.30
	Total Indirect Cost	638,849.80
	ITEM COST	3,095,920.8
	Unit Cost	1,032.0

ITEM SPL3: SUSPENSION FOOTBRIDGE

Quantity = 220 mtrs

A. Materials:

555 -pcs	2" BY 4" stainless rectangular tube(304)	@ P	9,500 /pc.	5,272,500.00
1601 -pcs	2"BY 8" by 4' good lumber	@ P	300 /pc.	480,300.00
3229 -pcs	1" diameter bolt with nut	@ P	40 /pc.	129,160.00
	cable wires, clamps and miscellaneous hardware	@ P	lumpsum	14,000,000.00
1.00 -lot			sub-total	19,881,960.00

B. Labor:

1 -Const'n foreman	@ P	561 /day for	500 days	280,500.00
5 -Skilled laborer	@ P	421 /day for	500 days	1,052,500.00
30 -Laborers	@ P	326 /day for	500 days	4,890,000.00
			subtotal	6,233,000.00


	Total Direct Cost	26,114,960.00
ADD:	8% CP	2,089,196.80
	12% OCM	3,133,795.20
	Sub-total	31,337,952.0
	5% VAT, BIR TAX	1,566,897.60
	Total Indirect Cost	6,789,889.60
	ITEM COST	32,904,849.6
	Unit Cost	149,567.5

SUM OF ALL ITEMS	75,000,000.0
Add: Admin cost	(0.0)
TOTAL PROJECT COST	75,000,000.0
BREAKDOWN:	
Material Cost	45,220,817.5
Labor Cost	14,027,180.0
Equipment Rentals	378,372.0
Direct Cost	59,626,369.5
Indirect Cost	15,373,630.5
TOTAL	75,000,000.0


PREPARED by:

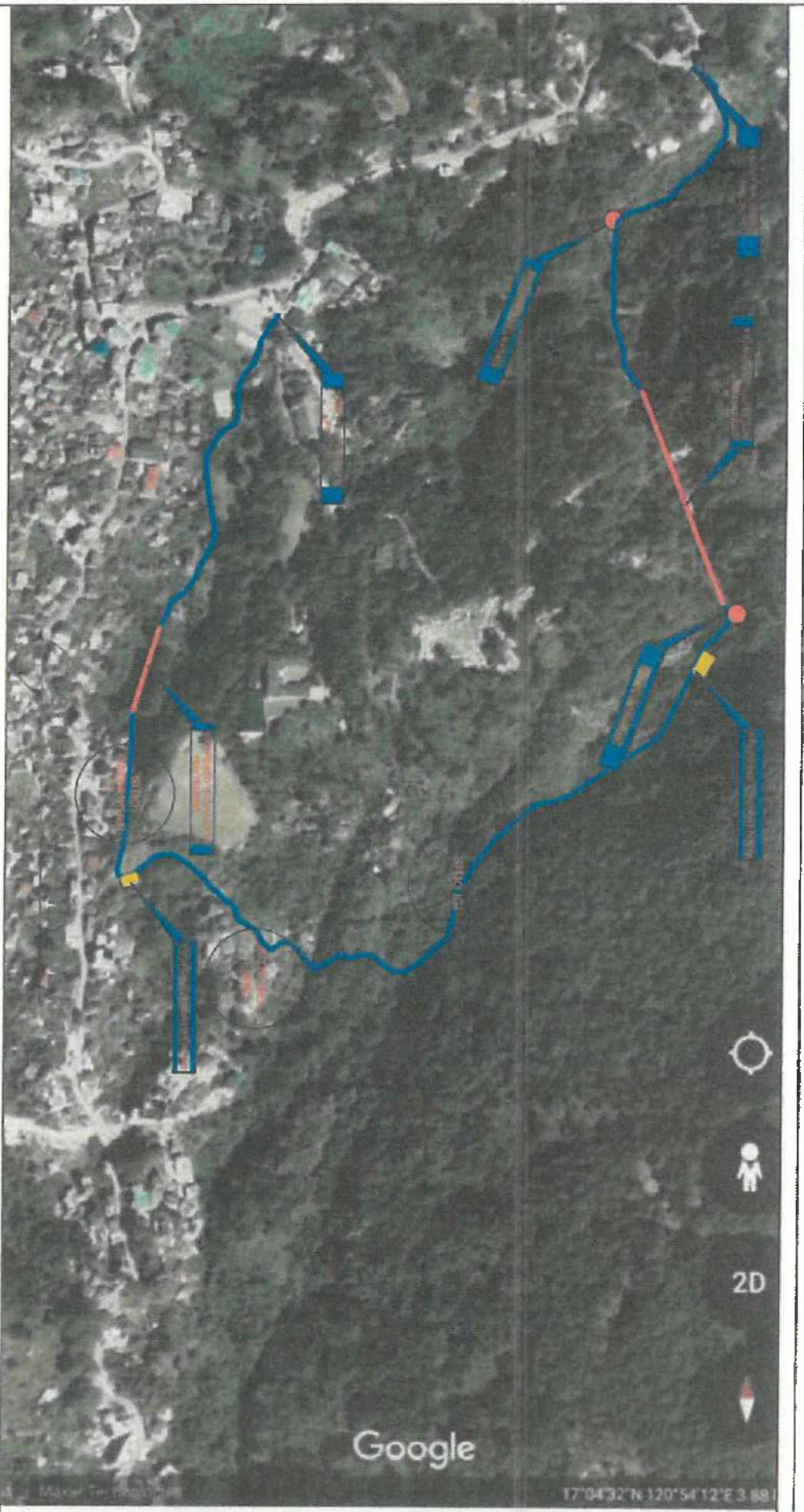

SHERWIN A. TAULL
Engineer 1





CHECKED by:

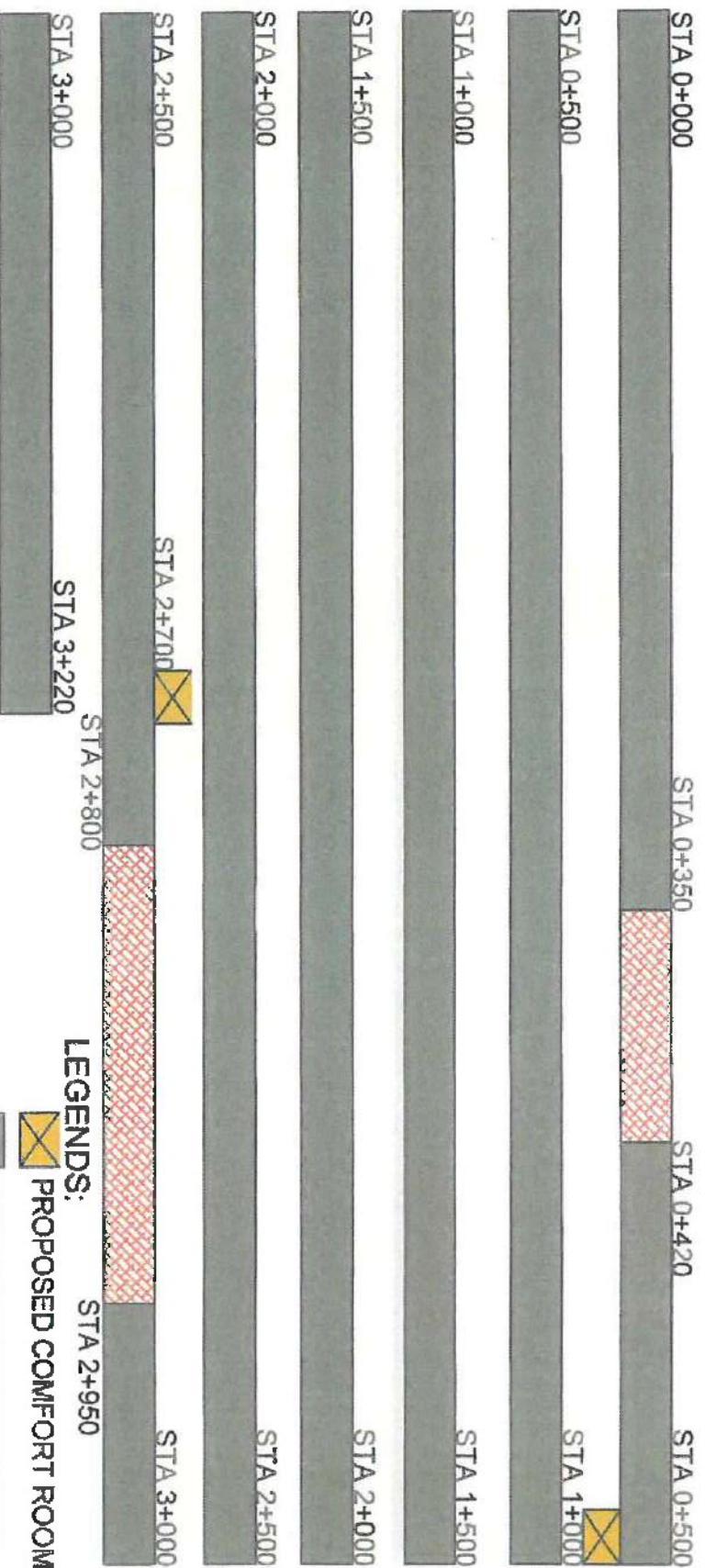

CIANO B. BALDO
Municipal Engineer

APPROVED by:

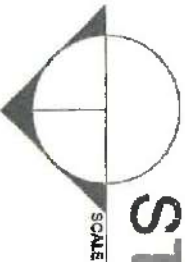

JAMES B. POOTEN, JR.
Municipal Mayor



AGENCY:  OME O SAGADA, MT. PROVINCE	PROJECT TITLE: CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PATAY, SAGADA, MT. PROVINCE	PREPARED BY:  SHERMAN A. TALILI Engineer I	CHECKED BY:  CIANO B. BALDO Municipal Engineer	APPROVED BY:  JAMES B. POGMEN, JR. Municipal Mayor	SHEET NO. <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 9 </div>
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STRAIGHT LINE DIAGRAM

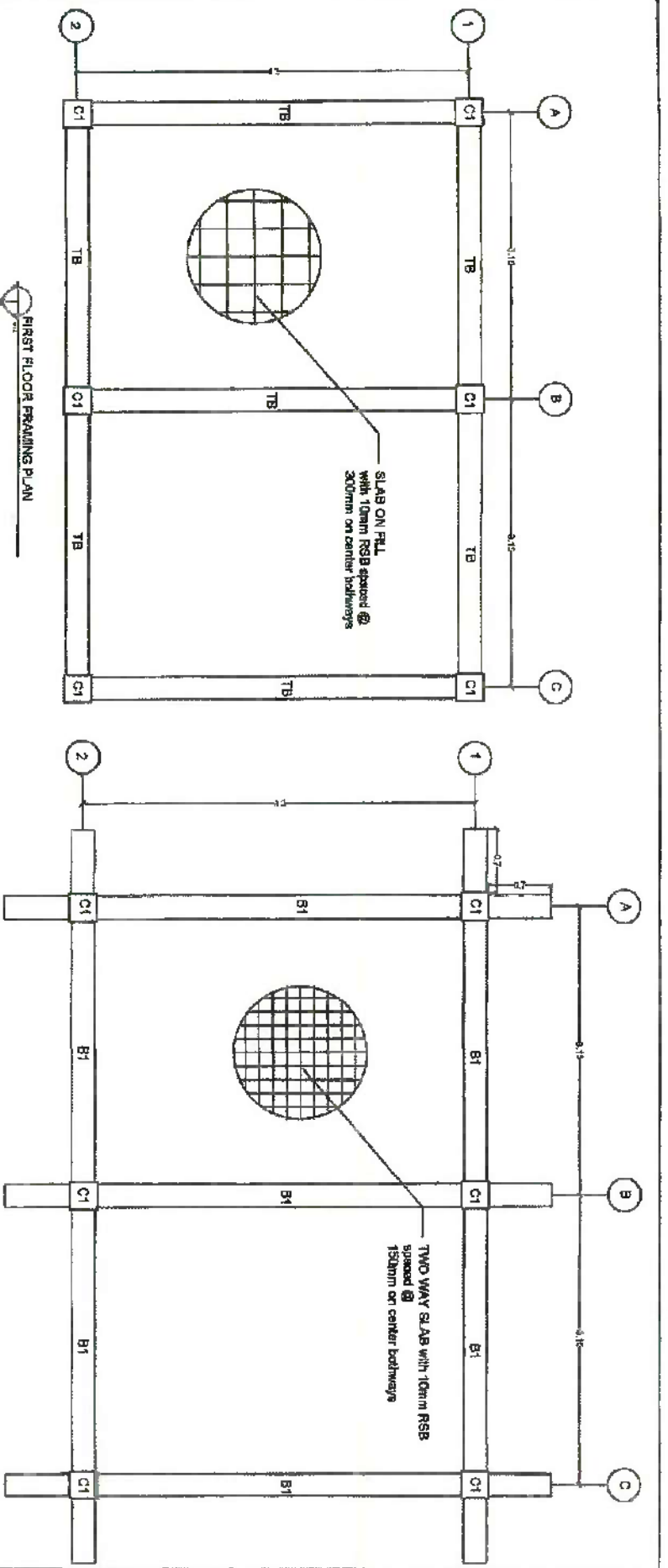






NTS

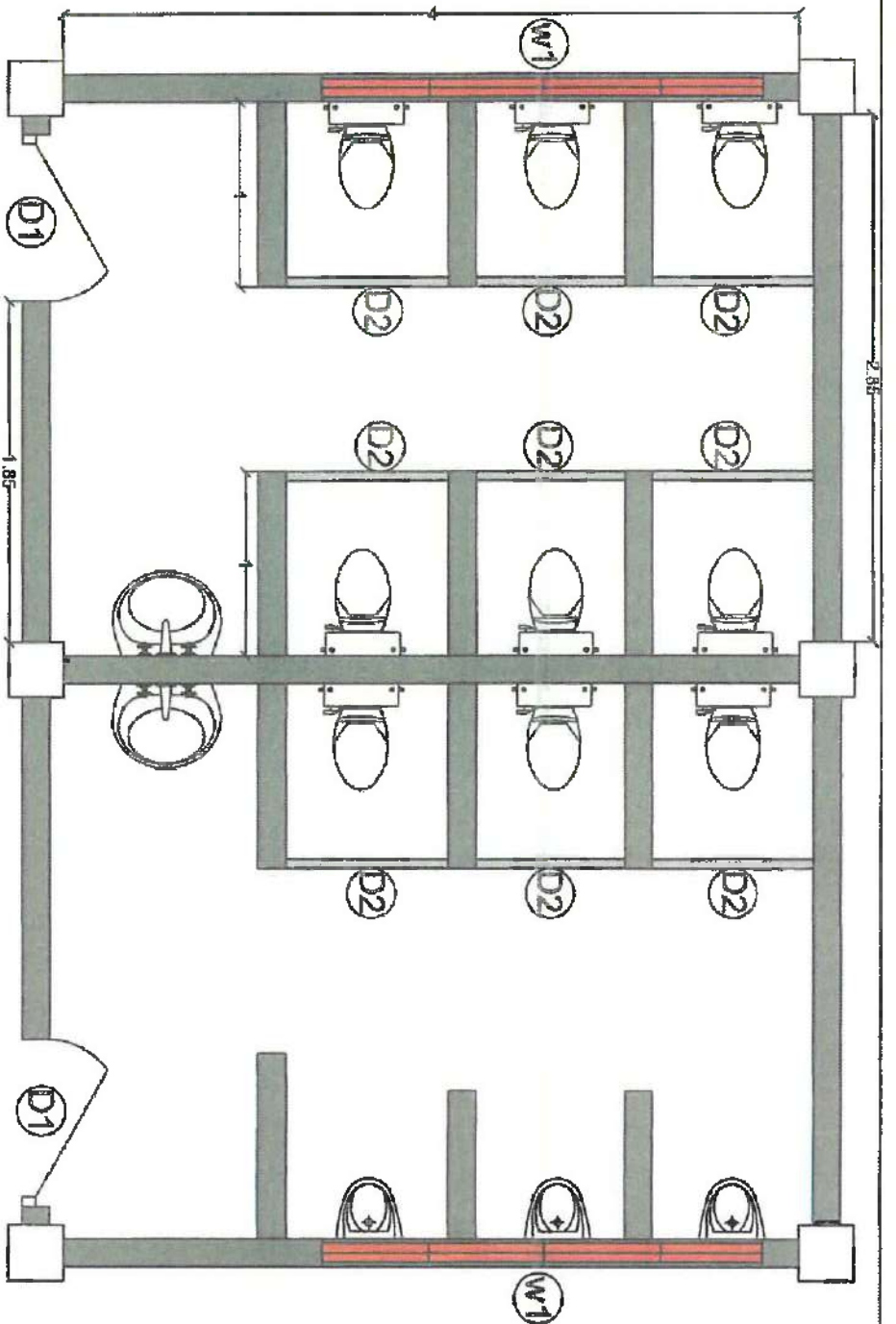
LEGENDS:

- PROPOSED COMFORT ROOM
- PROPOSED PATHWAY WITH SHADE
- PROPOSED SUSPENSION BRIDGE

AGENCY:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	APPROVED BY:	SHEET NO.
 MEO SAGADA, MT. PROVINCE	CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PATAY, SAGADA, MT. PROVINCE	SHERWIN D. DAU Engineer I	CIANO B. BALDO Municipal Engineer	JAMES B. POOL EN, JR. Municipal Mayor	2 9

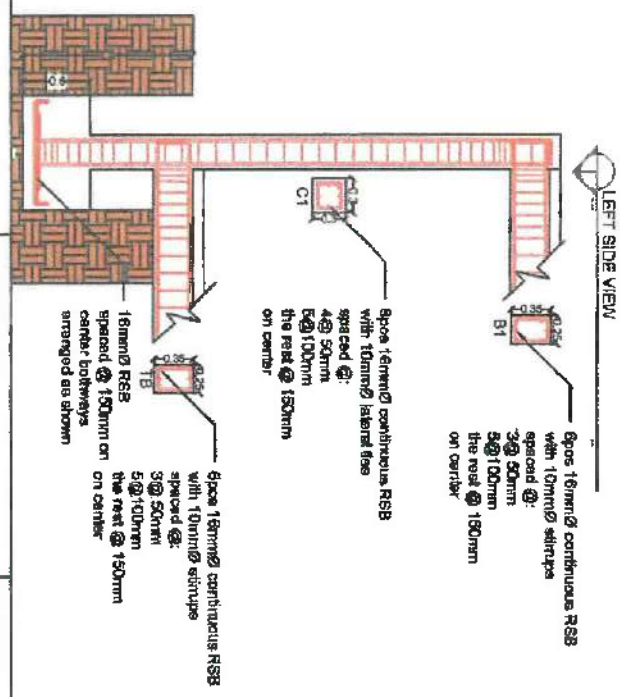
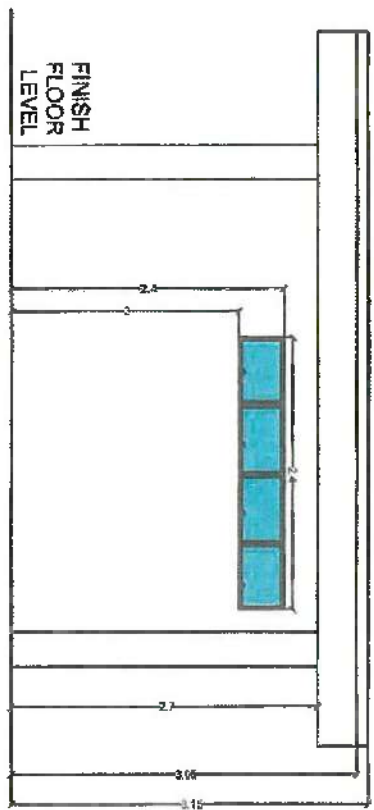
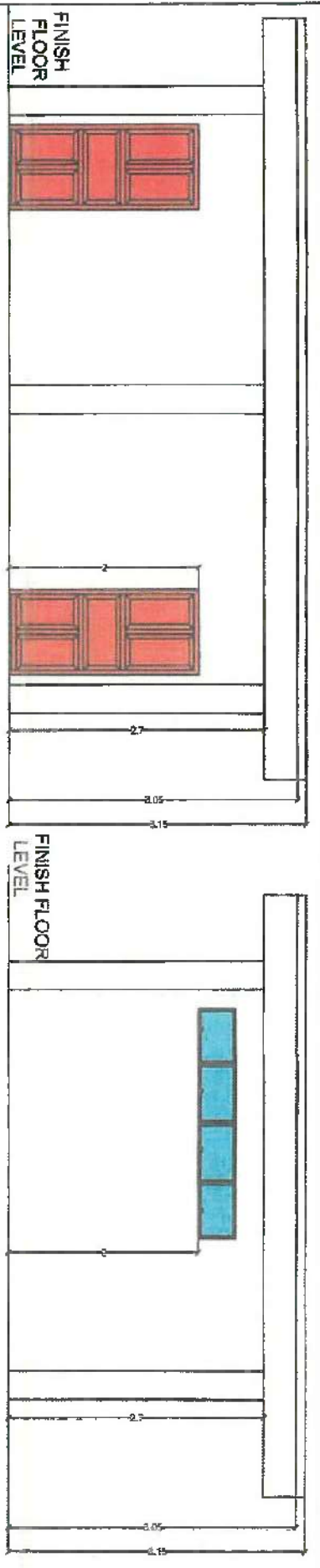






AGENCY:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	APPROVED BY:	SHEET NO.
 MEO SAGADA, MT. PROVINCE	CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES	 SHERAN A. TUGID Engineer I	 DANILO B. BALDO Municipal Engineer	 JAMES B. POONEN, JR. Municipal Mayor	<div style="border: 1px solid black; padding: 5px; text-align: center;"> 3 9 </div>

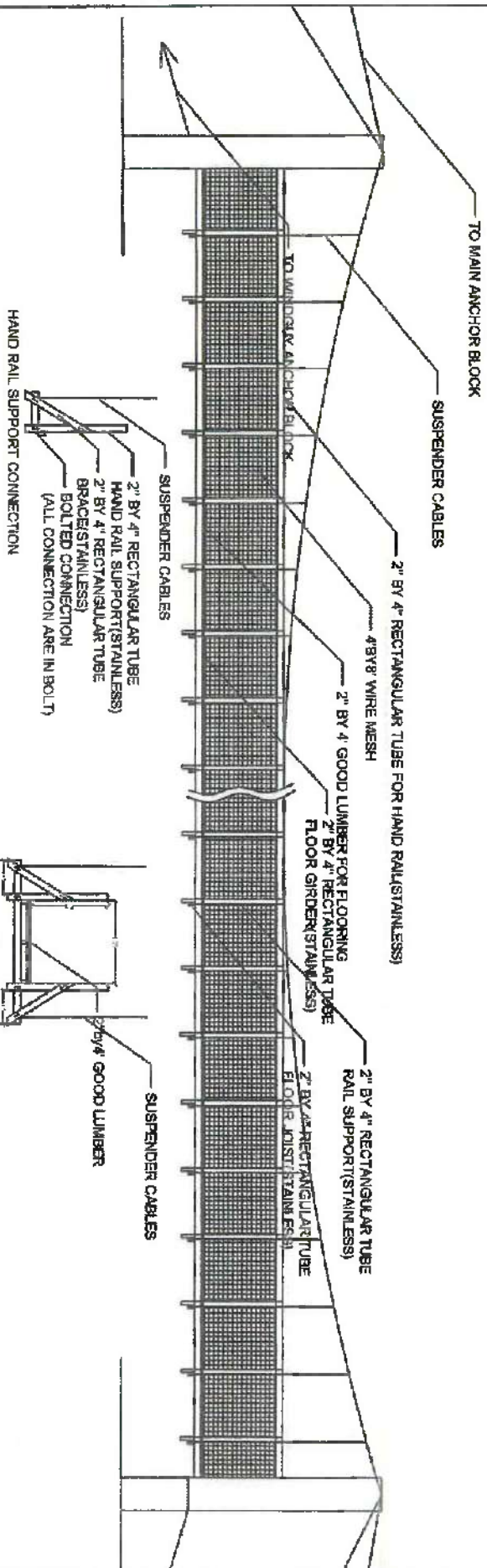





FIRST FLOOR FINISH PLAN

<p>AGENCY:</p>  <p>MEO SAGADA, MT. PROVINCE</p>	<p>PROJECT TITLE:</p> <p>CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PATAY, SAGADA, MT. PROVINCE</p>	<p>PREPARED BY:</p> <p> SHERWIN A. SAGAT Engineer 1</p>	<p>CHECKED BY:</p> <p> DANILLO B. BALDO Professional Engineer</p>	<p>APPROVED BY:</p> <p> JAMES B. PODDEN, JR. Municipal Mayor</p>	<p>SHEET NO.</p> <p>4 9</p>
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 MEMEO SAGADA, MT. PROVINCE	PROJECT TITLE: CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PATAY, SAGADA, MT. PROVINCE	PREPARED BY:  SHERWIN T. UDA Engineer 1	CHECKED BY:  CLANO B. BALDO Architectural Engineer	APPROVED BY:  JAMES B. POOLEN, JR. Municipal Mayor	SHEET NO. <div style="border: 1px solid black; padding: 5px; text-align: center;"> 5 9 </div>
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AGENCY:  MEO SAGADA, MT. PROVINCE	PROJECT TITLE: CONSTRUCTION OF TOURISM COVERED PATHWAYS WITH HANGING BRIDGES PATAY, SAGADA, MT. PROVINCE	PREPARED BY:  SHERWIN A. TALU Engineer I	CHECKED BY:  CIANO B. BALDO Municipal Engineer	APPROVED BY: JAMES B. POOTEN, JR. Municipal Mayor	SHEET NO. <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 7 9 </div>
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