

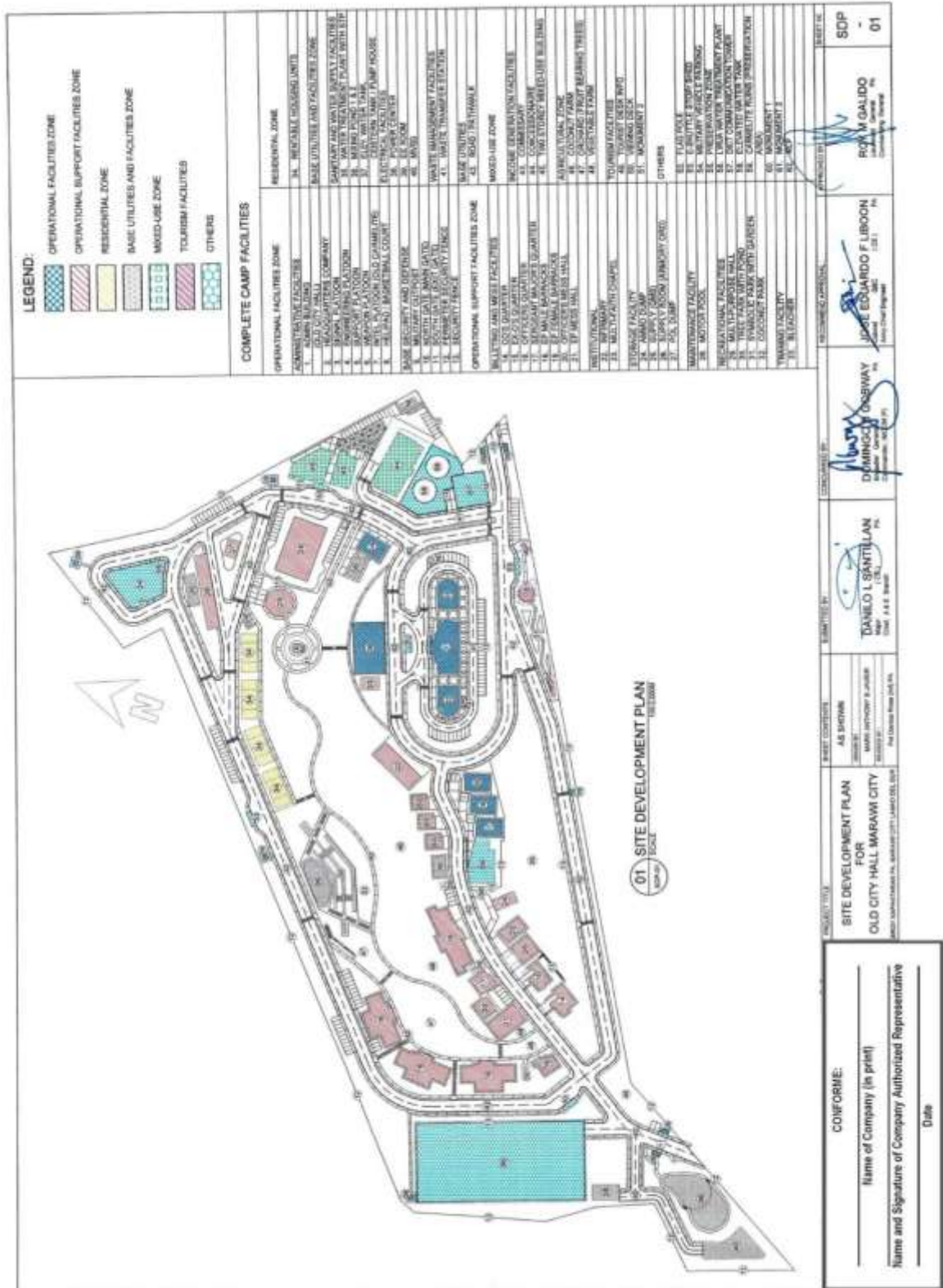
Section VII. Drawings

Nr	Description	ABC (PhP)	Page
1	EP Male Barracks (60 capacity)	11,755,355.96	1-23
2	Officer's Messhall	8,065,136.00	24-44
3	EP Messhall (60 capacity)	9,411,484.00	45-64
4	Supply Building	4,687,369.00	65-78
Total		33,919,344.96	

(Page 01/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)

Bid Ref. No. ENG'G PABAC3 017-24



(Page 02/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

1 PERSPECTIVE
SCALE: A-1

2 VICINITY MAP
SCALE: A-1

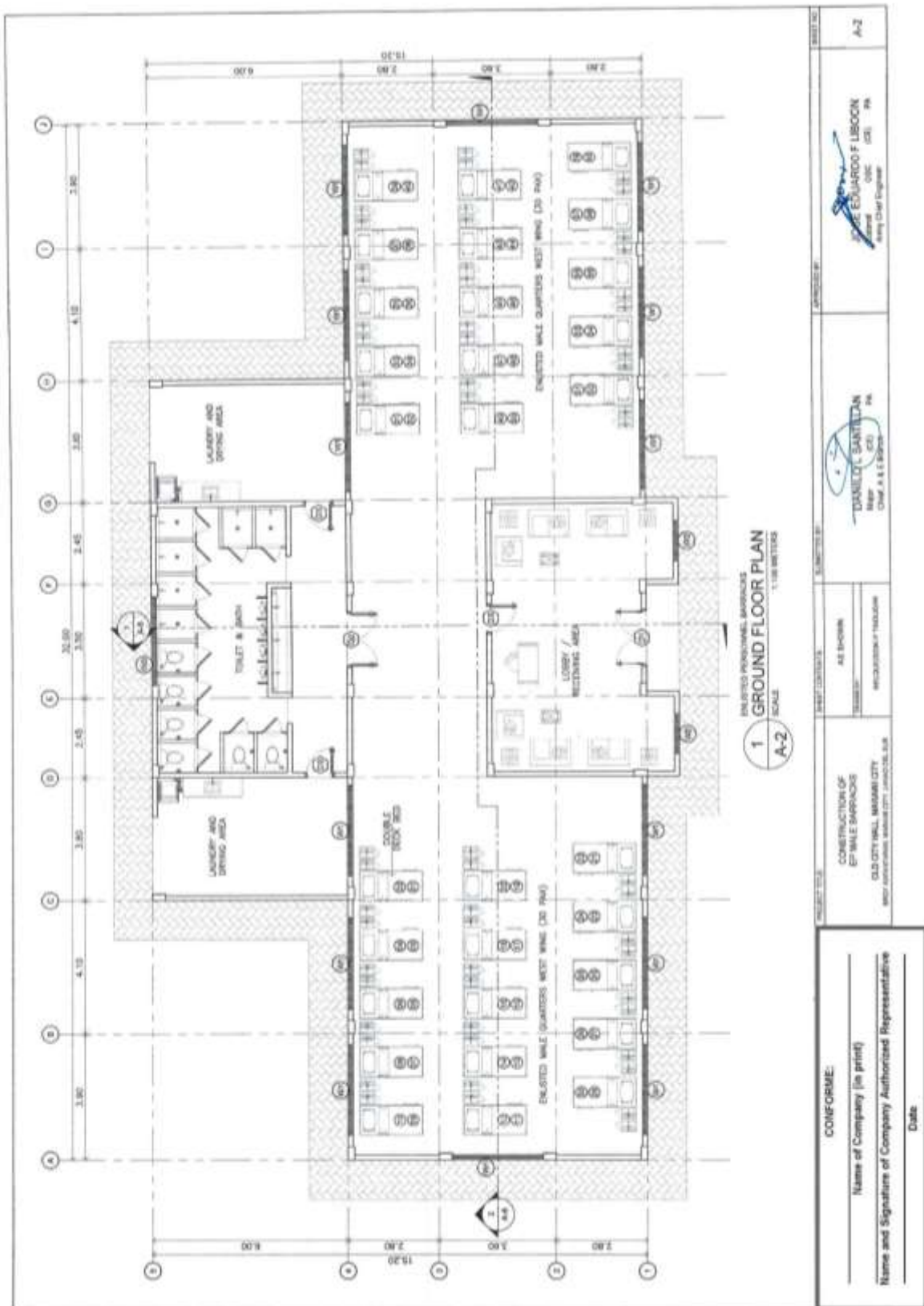
3 LOCATION MAP
SCALE: A-1

4 SITE LOCATION PLAN
SCALE: A-1

PROJECT TITLE	DESIGNED BY	CHECKED BY	DATE
CONSTRUCTION OF EF MALE BARRACKS OLD CITY HALL, MARAWI CITY BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR	AS SHOWN		
	DANILO L. SANTILLAN PE No. 1021 DATE: 4.11.2021		
	DOMINICO G. GONZALEZ PE No. 1021 DATE: 4.11.2021		
	JOSE EDUARDO F. LISBON PE No. 1021 DATE: 4.11.2021		
CONFIRMED: Name of Company (in print) _____ Name and Signature of Company Authorized Representative _____ Date _____			APPROVED BY: ROY M. GALILDO PE No. 1021 DATE: 4.11.2021

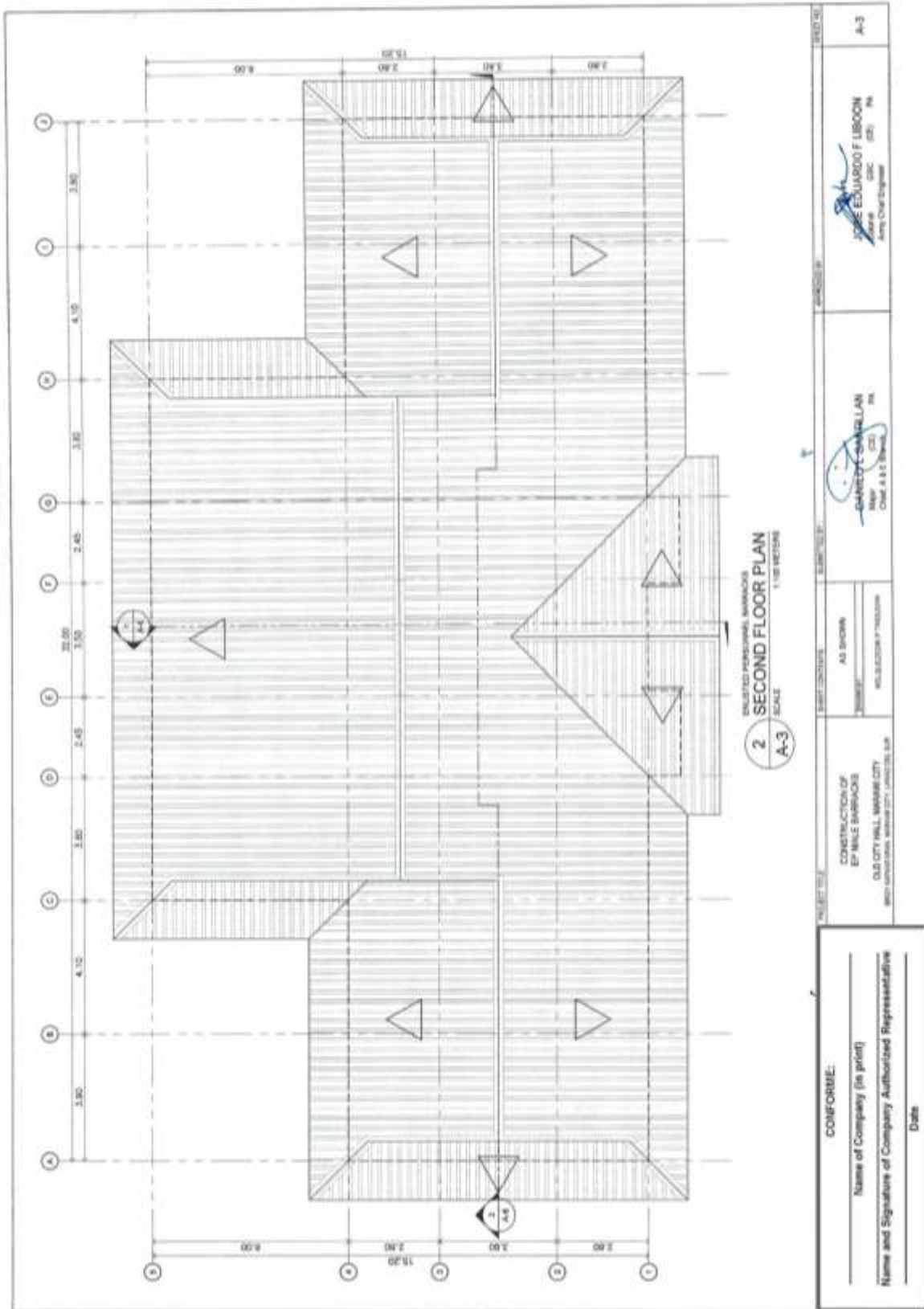
(Page 03/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG’G PABAC3 017-24



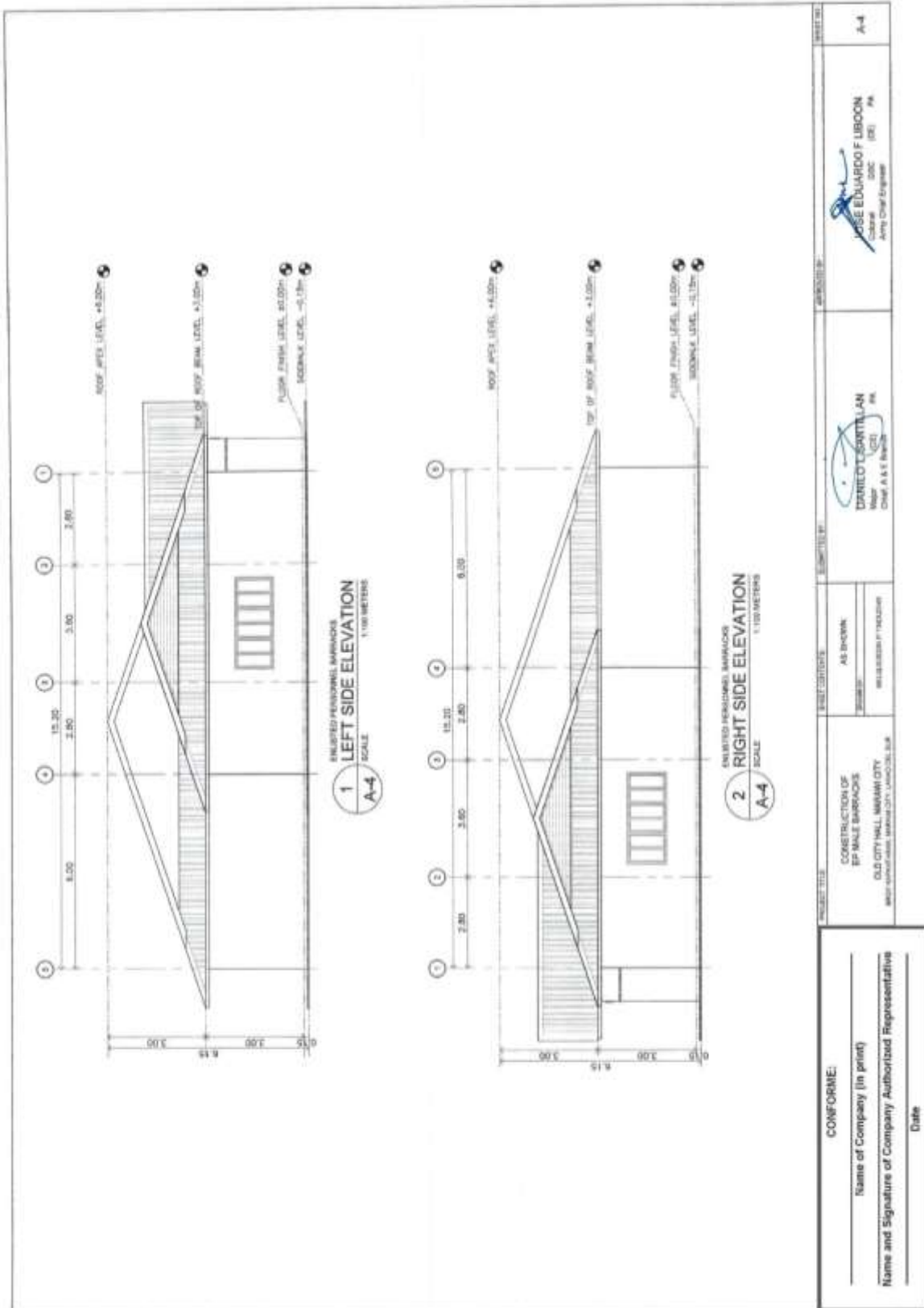
(Page 04/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



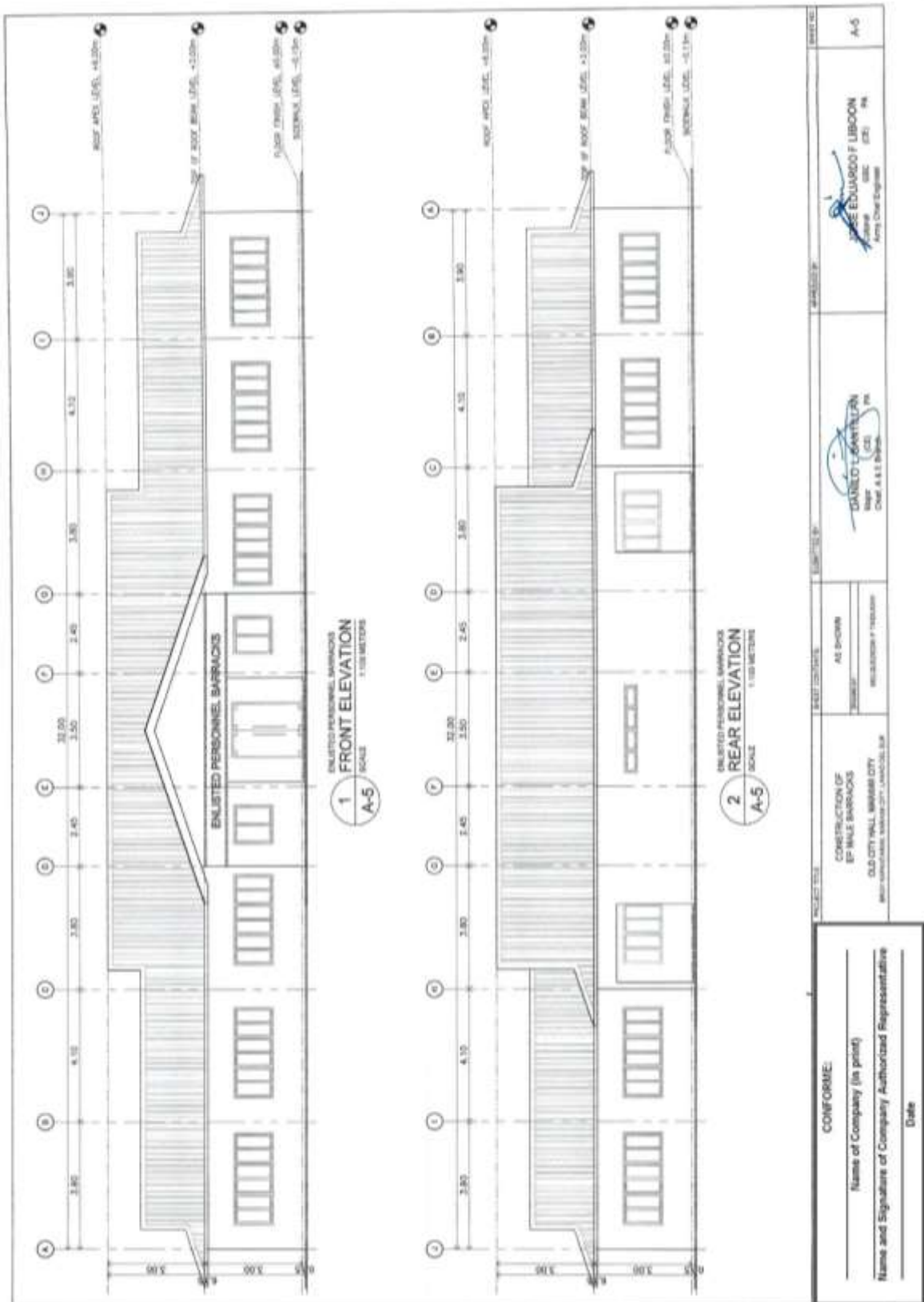
(Page 05/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



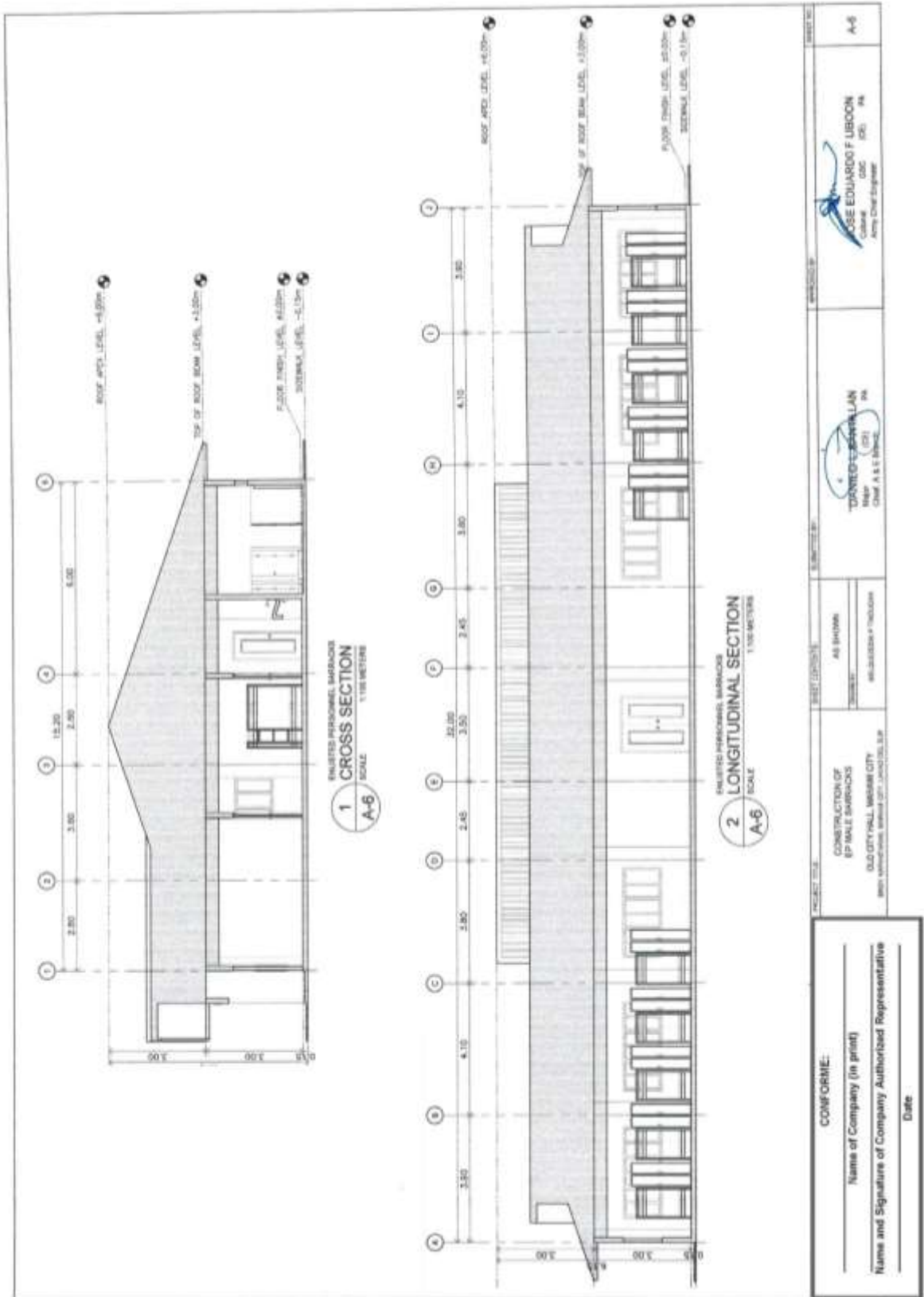
(Page 06/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG'G PABAC3 017-24



(Page 07/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 08/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

1 SCHEDULE OF DOORS
SCALE: A-7
1:30 METERS

ENLISTED PERSONNEL BARRACKS

2 SCHEDULE OF WINDOWS
SCALE: A-7
1:30 METERS

ENLISTED PERSONNEL BARRACKS

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE: CONSTRUCTION OF EP MILE BARRACKS, OLD CITY HALL, MARAWI CITY, LANAO DEL SUR

PROJECT CODE: AS BARRACKS

DATE: _____

DESIGNED BY: _____

CHECKED BY: _____

DATE: _____

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

ENLISTED PERSONNEL BARRACKS

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DIMENSIONS AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SANITARY DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DOORS, ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI 318-11 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND STRUCTURAL STEEL WORK UNLESS OTHERWISE SPECIFIED OR REFERRED TO IN THE DRAWINGS. SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- AS REFERRED TO AMERICAN CONCRETE INSTITUTE, AS TO AMERICAN NOTATION OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MIDDY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR OWNER'S APPROVAL, BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STODOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, A STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS,	3000 PSI (21.70 MPa)	20mm	100mm
COLUMNS	3000 PSI (21.70 MPa)	20mm	100mm
BEAMS, SLABS	3000 PSI (21.70 MPa)	20mm	100mm
SLAB ON FILL	3000 PSI (21.70 MPa)	20mm	100mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	25mm
BEAM STIRRUPS AND COLUMN TIES	40mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	50mm
	75mm

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-WORKING OR PLACING SHALL BE DONE PREVENTIVELY WITH BUCKETS, BUCKETS OR WHEELBARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSPORT CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

- IF SLABS ARE REINFORCED WITH BARS, BARS SHALL BE PLACED ALONG THE SHORTER SPAN. BARS SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCEMENT NEAR THE SUPPORTS. THE SPACING OF BARS AT THE CORNERS NEAR THE SUPPORTS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN SLABS * CROSS-CROSS-SECTIONAL AREA (A_c) OF THE SLAB (SEE SCHEDULE BELOW).

THICKNESS	MINIMUM DEVELOPMENT LENGTH
100 mm	15 mm + 8 20mm EACH WAY
125 mm	15 mm + 8 25mm EACH WAY
150 mm	15 mm + 8 30mm EACH WAY
175 mm	15 mm + 8 35mm EACH WAY
200 mm	15 mm + 8 40mm EACH WAY

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BENDED SLABS SHALL BE REINFORCED WITH 15mm # AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART.
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm # STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.5 METER ON CENTER BOTHWAYS.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - FOOTING, FOOTING BEAMS AND GIRDERS: fy = 277.5 MPa (30,000 psi)
 - COLUMNS AND SHEAR WALLS: fy = 277.5 MPa (30,000 psi)
 - BEAMS, SLABS, WALL PARTITIONS, BEAMS, FLOORS & ROOF SLABS: fy = 277.5 MPa (30,000 psi)
 - ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- SPLICES SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.

NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

TYPICAL CORNER SLAB DETAIL

GENERAL NOTES

- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:
 - FOUNDATION: 24 HRS.
 - SUSPENDED: 14 DAYS
 - WALLS: 21 DAYS
 - BEAMS: 14 DAYS
 - COLUMNS: 21 DAYS
- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF FORMING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING OF CONCRETE.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

- FOOTING SHALL REST AT LEAST 100mm BELOW FINISH GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - FOOTING, FOOTING BEAMS AND GIRDERS: fy = 277.5 MPa (30,000 psi)
 - COLUMNS AND SHEAR WALLS: fy = 277.5 MPa (30,000 psi)
 - BEAMS, SLABS, WALL PARTITIONS, BEAMS, FLOORS & ROOF SLABS: fy = 277.5 MPa (30,000 psi)
 - ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- SPLICES SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

GENERAL NOTES

- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:
 - FOUNDATION: 24 HRS.
 - SUSPENDED: 14 DAYS
 - WALLS: 21 DAYS
 - BEAMS: 14 DAYS
 - COLUMNS: 21 DAYS
- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF FORMING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING OF CONCRETE.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

- FOOTING SHALL REST AT LEAST 100mm BELOW FINISH GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - FOOTING, FOOTING BEAMS AND GIRDERS: fy = 277.5 MPa (30,000 psi)
 - COLUMNS AND SHEAR WALLS: fy = 277.5 MPa (30,000 psi)
 - BEAMS, SLABS, WALL PARTITIONS, BEAMS, FLOORS & ROOF SLABS: fy = 277.5 MPa (30,000 psi)
 - ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- ALL REINFORCING BARS SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
- SPLICES SHALL BE SECURELY WIDED TOGETHER & SHALL LAP UP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE B LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

NOTES ON COLUMNS

- PROVIDE EXTRA SIZE OF REIN FOR 100mm O.C. FOR 100mm COLUMN REINFORCEMENT. SEE DET. FOR BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF COLUMN OR 400mm.
- COLUMN TIES SHALL BE PROVIDED EXCEPT WHERE A COVERING OF CONCRETE SHALL BE PROVIDED FOR THE COLUMN. THE COVERING THICKNESS OF ADMIX AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COURSE APPROPRIATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE VERTICAL REINFORCEMENTS SHALL BE PROVIDED AT A POINT OF CHANGE. THE REIN SHALL BE LAPPED WITH TIES AT 100mm. SHALL BE PROVIDED THROUGH OUT THE OFFSET REGION.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPICES FOR REINFORCING BARS SHALL BE PROVIDED AS FOLLOWS:
 - FOR COLUMN REINFORCEMENT, LAP SPICES SHALL BE PROVIDED WITHIN THE COLUMN. THE LAP SPICES SHALL BE PROVIDED WITHIN THE COLUMN. THE LAP SPICES SHALL BE PROVIDED WITHIN THE COLUMN. THE LAP SPICES SHALL BE PROVIDED WITHIN THE COLUMN.

SECTION "A"
 TYPICAL SLAB OPENING DET.

NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS, CHAMFER ALL BEAMS AND CORNERS AS AT LEAST THREE TIMES THE CLEAR WIDTH OF BEAM. EXCEPT CHAMFER FOR WHICH THE CHAMFER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 25mm FOR EVERY 1.0M OF FREE SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

FIG. B-1

NOTES ON COLUMNS

JOINT HOOP SPACE @ 200mm WHEN THESE ARE BEING HAVING WIDTH OF AT LEAST ONE-HALF THE COLUMN WIDTH AND SPACING SHALL NOT BE LESS THAN THREE QUARTERS OF THE DEEPEST BEAM THAT FRAMES INTO FOUR SIDES OF THE COLUMN. ALL OTHER CONDITIONS USE HOOPS @ 50mm CENTERS.

FOR COL. BAR SPICES SEE TABLE FOR MIN. LAP SPICE LENGTH OF COLUMN REINFORCEMENT (SPACING OF TIES ALONG THIS REGION SHALL NOT BE LESS THAN 100mm)

NOTE: ALL CONCRETE REIN DETAIL SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF AC DETAILING MANUAL.

TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING

NOTES ON BEAMS AND GIRDERS

NOTE: TOP PLAN BARS, MULTIPLY VALUE BY 2

BAR SIZE (STRENGTH)	EMBEDMENT LENGTH (LAPTED)	EMBEDMENT LENGTH (LAPTED)
10mm #	300	300
12mm #	350	350
16mm #	450	450
20mm #	550	550

NOTE: TOP PLAN BARS, MULTIPLY VALUE BY 2

BAR SIZE (STRENGTH)	EMBEDMENT LENGTH (LAPTED)	EMBEDMENT LENGTH (LAPTED)
10mm #	300	300
12mm #	350	350
16mm #	450	450
20mm #	550	550

NOTE: TOP PLAN BARS, MULTIPLY VALUE BY 2

BAR SIZE (STRENGTH)	EMBEDMENT LENGTH (LAPTED)	EMBEDMENT LENGTH (LAPTED)
10mm #	300	300
12mm #	350	350
16mm #	450	450
20mm #	550	550

NOTE: TOP PLAN BARS, MULTIPLY VALUE BY 2

- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FURTHER FACE OF THE WALL NOT BE LESS THAN 200mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'X' FOR TENSION BARS AND TABLE 'Y' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BARS SHALL NOT BE SPACED WITHIN THE COLUMN. THE TIES SHALL BE PROVIDED AT ALL SPACES.
- WHERE USE THE 30mm LAYERS OF REINFORCING BARS USE 20mm BARS SEPARATORS PLACED AT 100mm INTERVALS. NO USE SHALL THESE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS ON STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2, UNLESS SPECIFIED ELSEWHERE.

FIG. B-2

FIG. B-3

CONFORME:

Name of Company (in print)

Name and Signature of Company Authorized Representative

Date

REGISTERED TITLE: AS SHOWN

CONSTRUCTION OF EP WALE SHAPINGS

OLD CITY HALL, MARAWI CITY

REGISTERED PROFESSIONAL ENGINEER

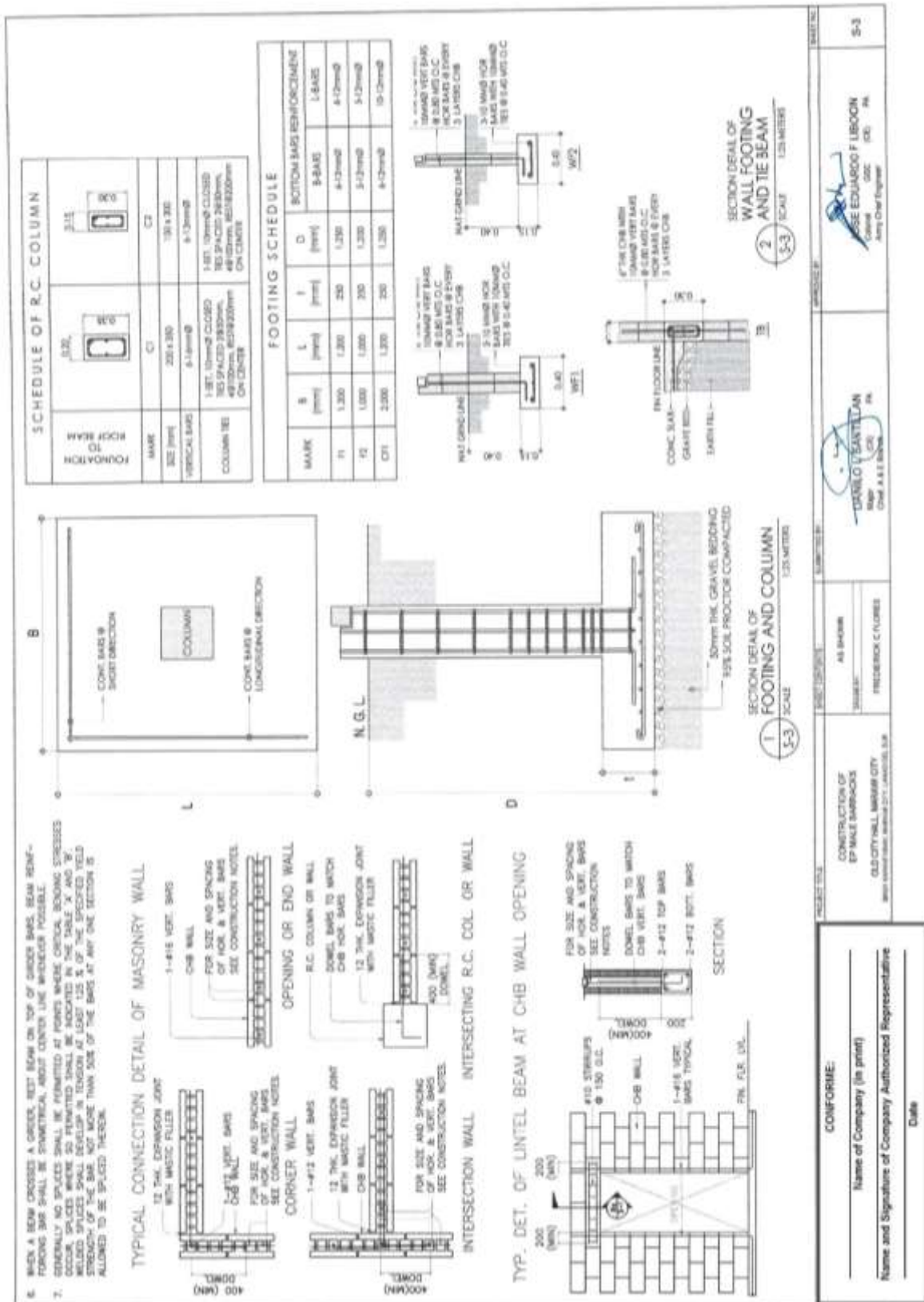
EDUARDO F. LIBON

Chief Civil Engineer

FIG. B-2

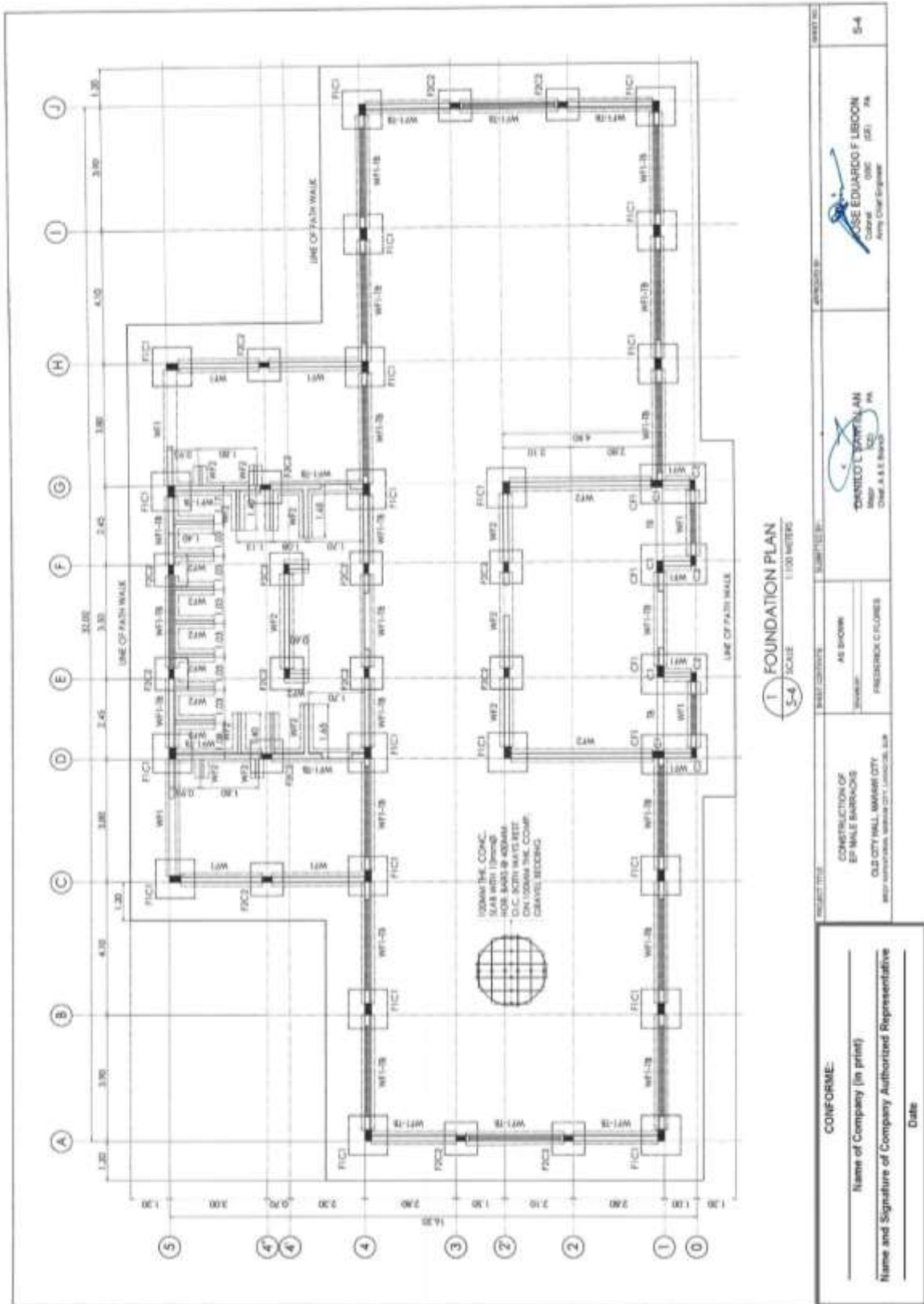
FIG. B-3

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

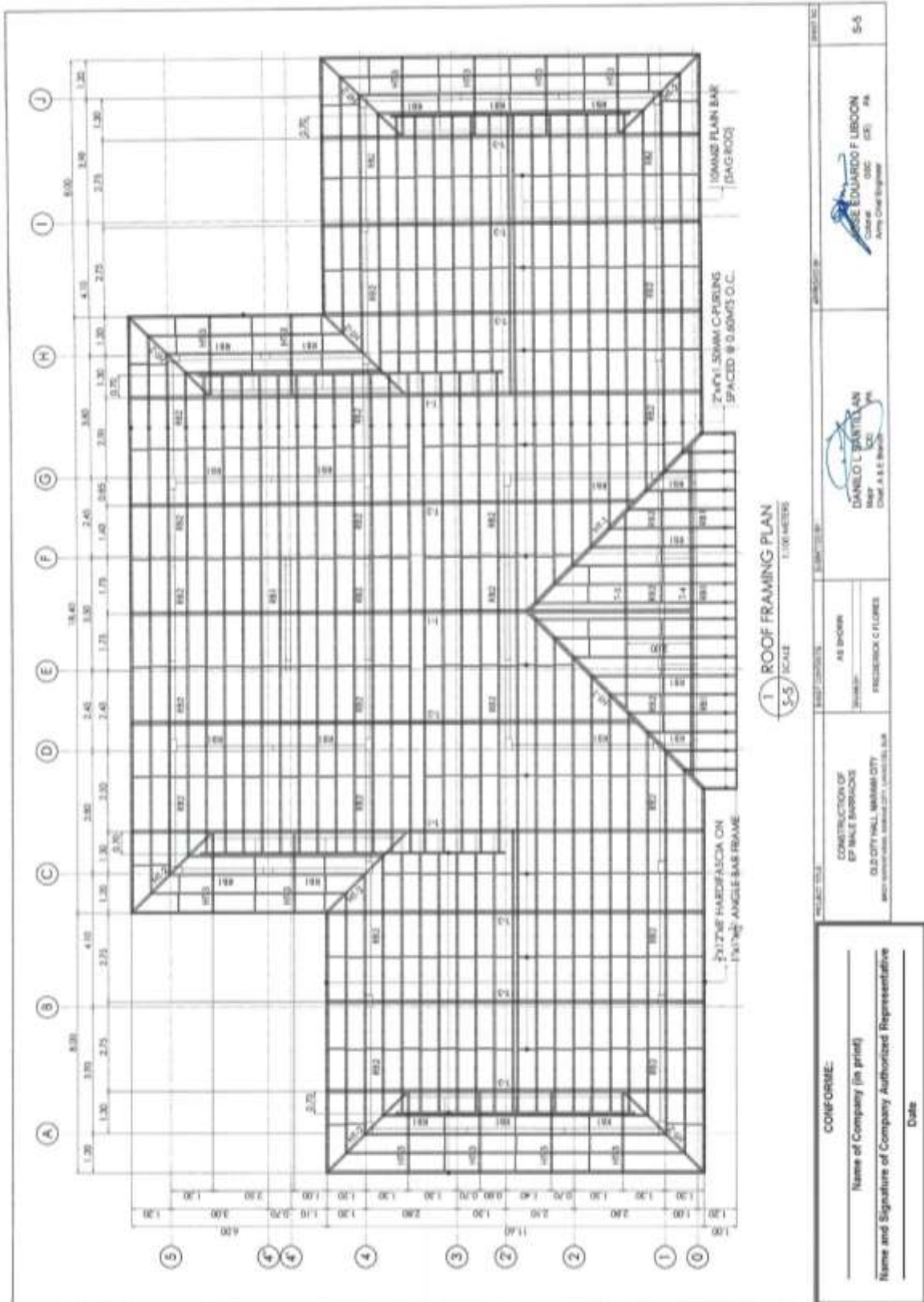


(Page 12/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 14/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot) Bid Ref. No. ENG'G PABAC3 017-24

T
1
TYPICAL SECTION DETAIL OF BEAM
SCALE: 1:25 METERS
S-4

BEAM MARK	STEEL REINFORCEMENT						STIRRUPS		REMARKS
	a	b	A	A ₁	B	B ₁	C	SIZE	
TB	300	300	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	10mmϕ	200mm, 20-100mm, REF: 200mm C.C.
RB	150	150	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	10mmϕ	200mm, 20-100mm, REF: 200mm C.C.
RB	150	150	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	3-12mmϕ	10mmϕ	200mm, 20-100mm, REF: 200mm C.C.

2
CONNECTION DETAIL OF TRUSS AND COLUMN
SCALE: 1:12.5 METERS
S-5

3
CONNECTION DETAIL OF TRUSS AND FASCIA BOARD
SCALE: 1:12.5 METERS
S-6

CONFORME:

Name of Company (in print)

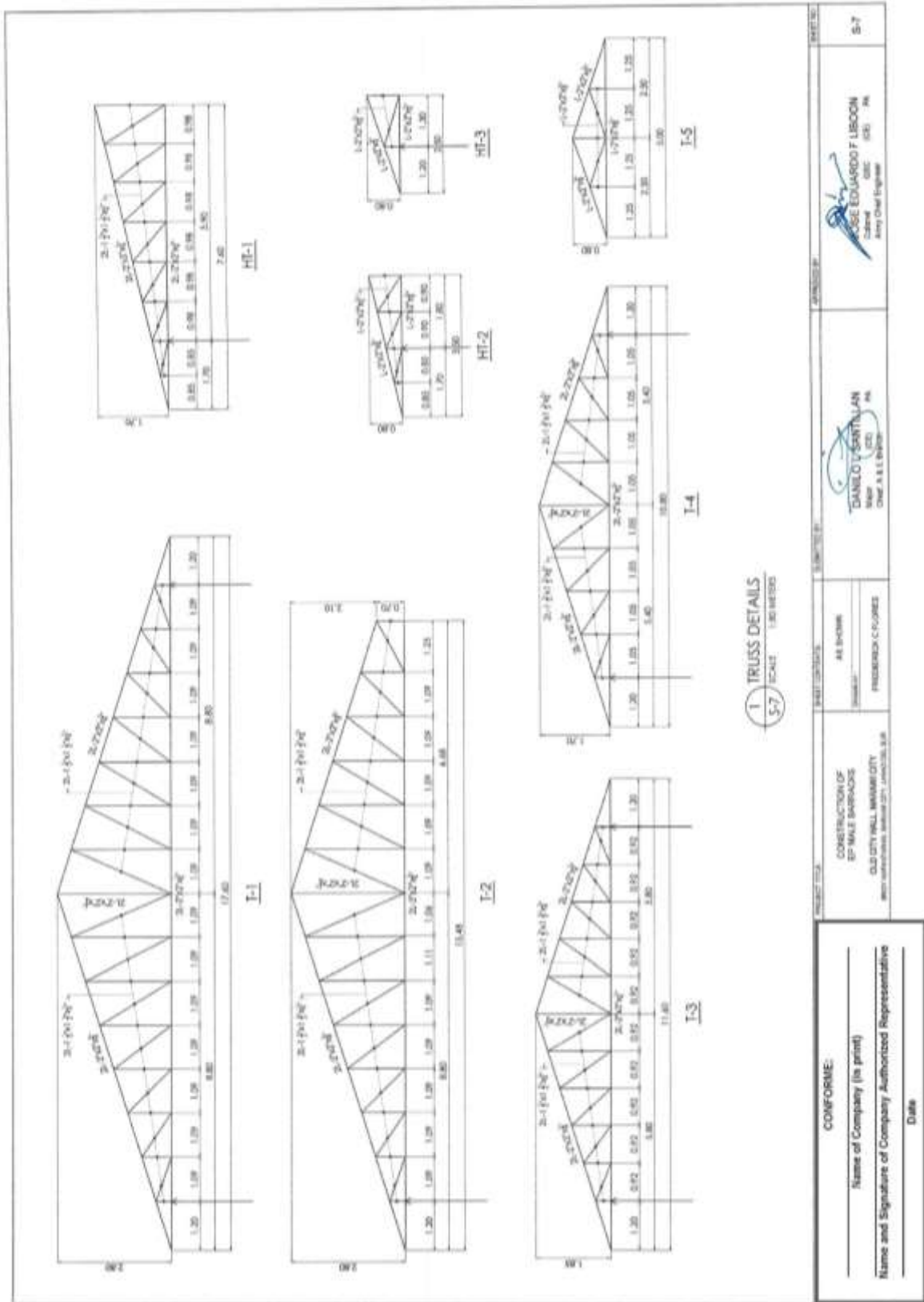
Name and Signature of Company Authorized Representative

Date

<small>PROJECT TITLE:</small>	CONSTRUCTION OF EF BALE BARRACKS, OLD CITY HALL, MARAWI CITY <small>WHO: ARCHITECTURAL SERVICES CENTER (ASC), S&A</small>	<small>DATE: []/[]/[]</small>	<small>REVISED BY:</small>
<small>APPROVED BY:</small>	 <small>DANILO BARRILLAN Major (AS) (R) PH Chief, A & S Unit</small>	<small>DATE:</small>	<small>REVISED BY:</small>
<small>DATE: []/[]/[]</small>	<small>APPROVED BY:</small>	<small>DATE:</small>	<small>REVISED BY:</small>
<small>PROJECT NO.:</small>	<small>AS SHOWN</small>	<small>DATE: []/[]/[]</small>	<small>REVISED BY:</small>
<small>PROJECT NO.:</small>	<small>PROVISION: C FLOOR</small>	<small>DATE: []/[]/[]</small>	<small>REVISED BY:</small>
<small>PROJECT NO.:</small>	<small>PROVISION: C FLOOR</small>	<small>DATE: []/[]/[]</small>	<small>REVISED BY:</small>
<small>PROJECT NO.:</small>	<small>PROVISION: C FLOOR</small>	<small>DATE: []/[]/[]</small>	<small>REVISED BY:</small>

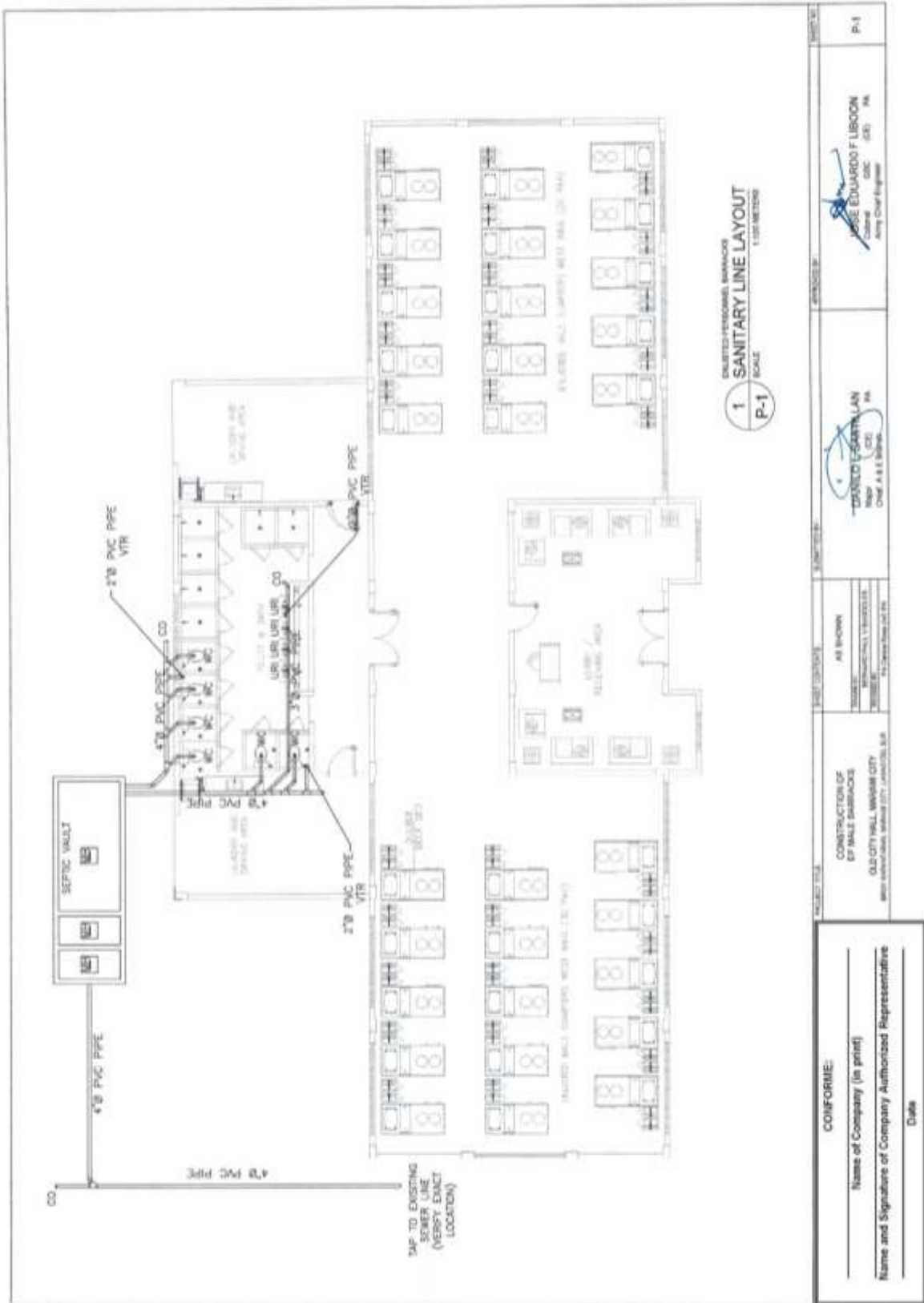
JOSE EDUARDO F LIBON
Colonel (AS) (R) PH
Army Chief Engineer

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



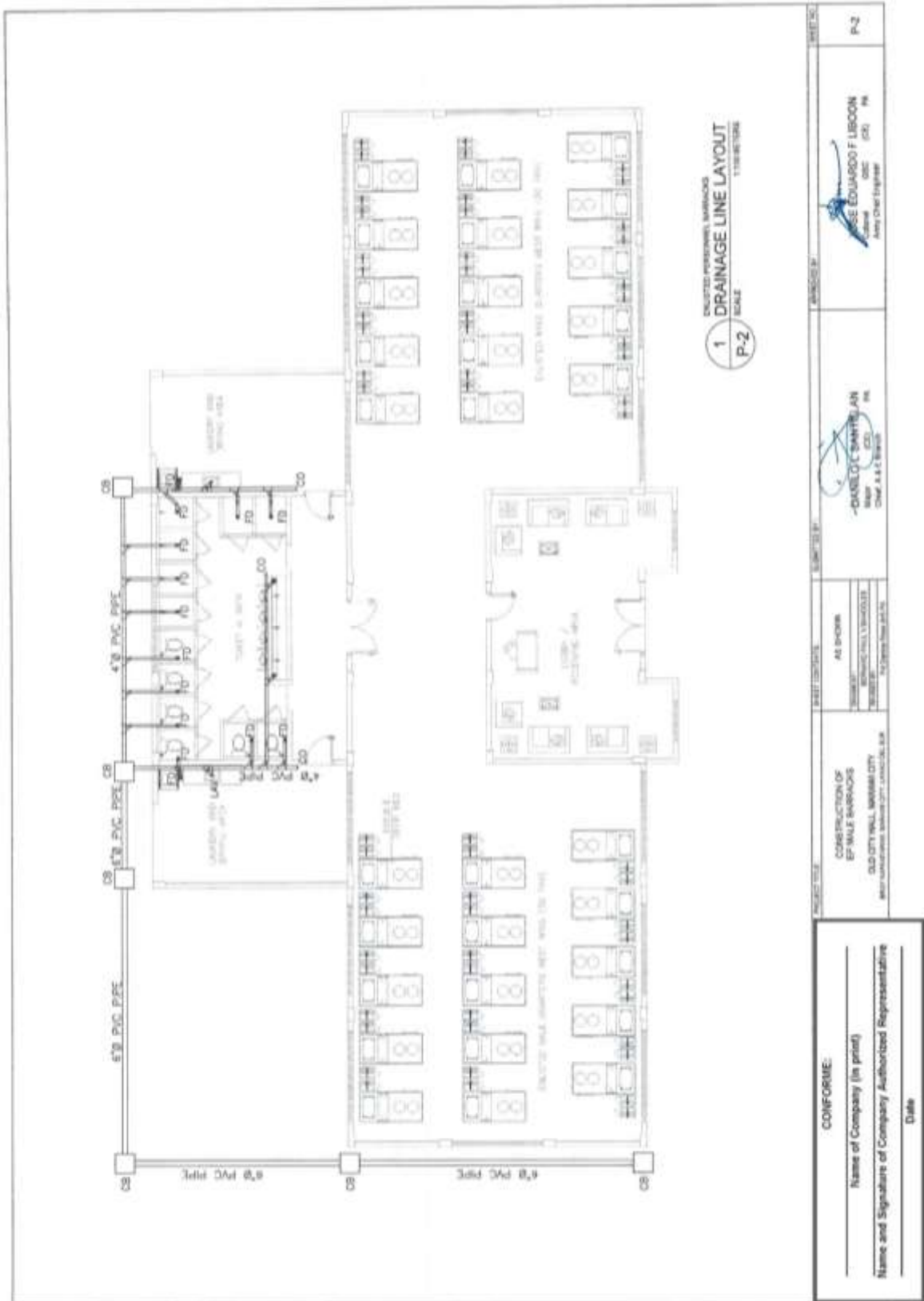
(Page 16/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



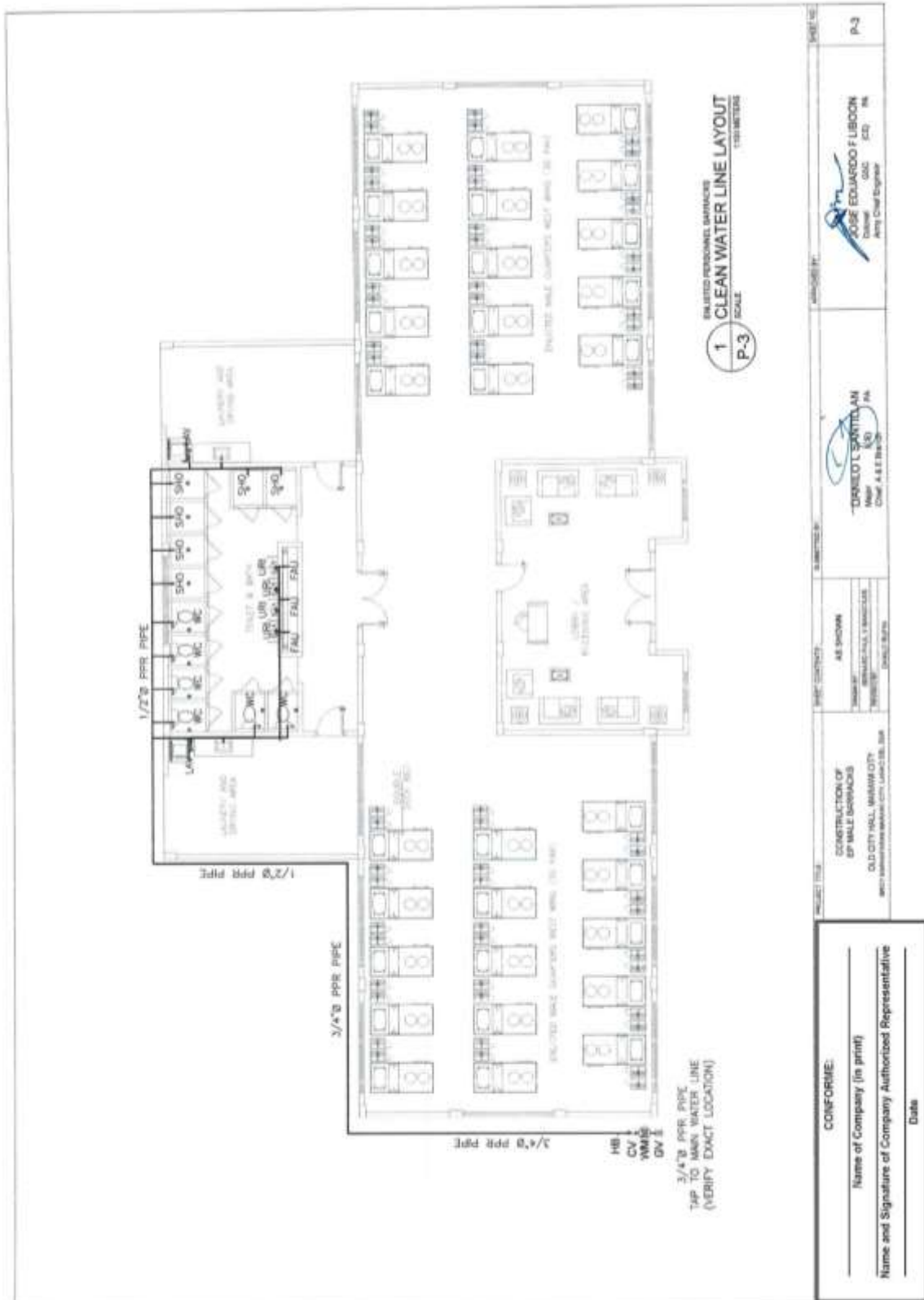
(Page 17/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



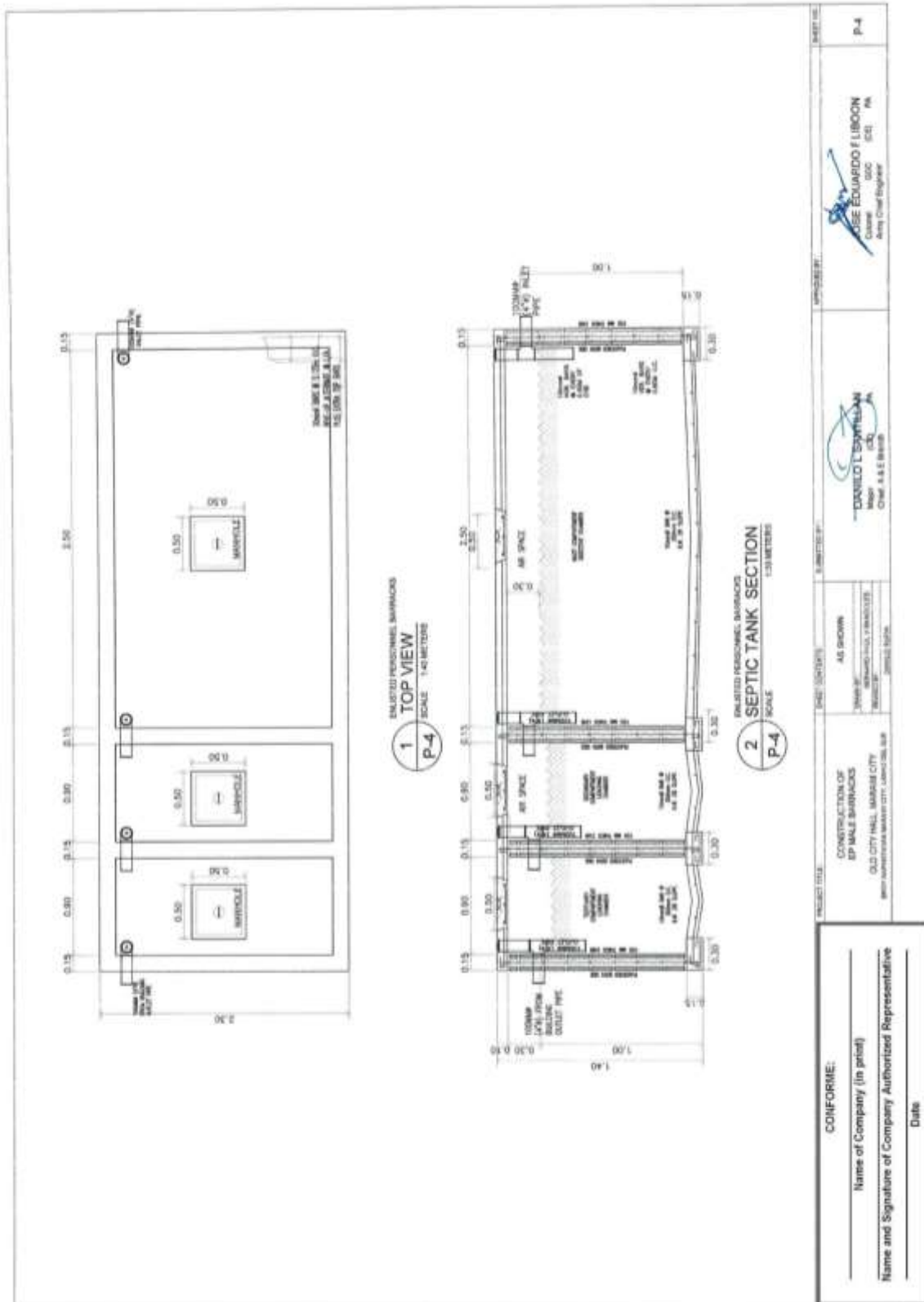
(Page 18/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



(Page 19/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 20/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

GENERAL NOTES

1. ALL SANITARY WORKS SHALL CONFORM WITH THE PREVALENT REQUIREMENTS OF LOCAL ORDINANCES AND LATEST EDITION OF NATIONAL PLUMBING CODE OF THE PHILIPPINES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED. ANY REVISIONS REQUIRED TO PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR OF THE LESSEES.
3. ALL SLOPE FOR HORIZONTAL PIPES WITH 10MM DIAMETER OR SMALLER SHALL MAINTAIN 2% AS MINIMUM. OTHERWISE SHALL MAINTAIN A MINIMUM SLOPE OF 1%.E.
4. ALL FIXTURES SHALL BE INSTALLED UNLESS OTHERWISE NOTED.
5. ALL PIPES SIZES INDICATED ARE IN INCH/TYPE (IN) DIAMETER, UNLESS OTHERWISE NOTED.
6. ALL WATER PIPES SHALL BE PROVIDED WITH 30 CM PIPE EXTENSION AND CAPPED AT THE END.
7. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO PRESSURE OF 15M WPA FOR TWO (2) HOURS.
8. ALL WATER PIPES SHALL BE THOROUGHLY FLUSHED AND DISINFECTED.
9. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED TO ENSURE THAT THE SYSTEM IS WATER TIGHT.
10. WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST AND THE MOST THOROUGH MANNER FROM TO TRICE AND TO THE SATISFACTION OF THE ARCHITECT AND THE ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY / LOCAL CONSTRUCTION AND OPERATION PERMITS AND FEES ALL REQUIRED FEES.

SPECIFICATION

1. COLD WATER PIPE - PPR PIPE OF APPROVED QUALITY.
2. DRAINAGE PIPE - POLYVINYL CHLORIDE, SERIES 1500
3. STORM DRAINAGE PIPE -
 - INTERIOR - POLYVINYL CHLORIDE, SERIES 1000
 - EXTERIOR - CONCRETE PIPE, ASTM STANDARD.
4. VENT PIPE / VENT STACK - POLYVINYL CHLORIDE, SERIES 1500.
5. SOIL AND WASTE PIPE - POLYVINYL CHLORIDE, SERIES 1500.
6. PPE JOINTS - POLYVINYL CHLORIDE JOINT/CEMENT.

LEGEND:

OK - COLD WATER USE	SP - SOIL PIPE
WC - WATER CLOSET	WF - WASH TRAY
LAJ - LAUNDRY	SK - SINKER HEAD
FD - FLOOR DRAIN	SV - GATE VALVE
KS - KITCHEN SINK	WA - WATER METER
UR - URINAL	WSP - WASH LINED SUPPLY PIPE
CS - CLEAN-OUT	LSJ - LAUNDRY TUB SUPPLY PIPE
VP - VENT PIPE	SV - STOVE VALVE
VST - VENT STACK TRU-DEEP	

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE: CONSTRUCTION OF EP MALT BARACKS OLD CITY HALL, MARAWI CITY

PROJECT NO.: 017-24

DATE: APRIL 2024

SCALE: AS SHOWN

DESIGNED BY: MARAWI CITY ENGINEERS

CHECKED BY: MARAWI CITY ENGINEERS

APPROVED BY: MARAWI CITY ENGINEERS

PROJECT NO.: P-5

DATE: APRIL 2024

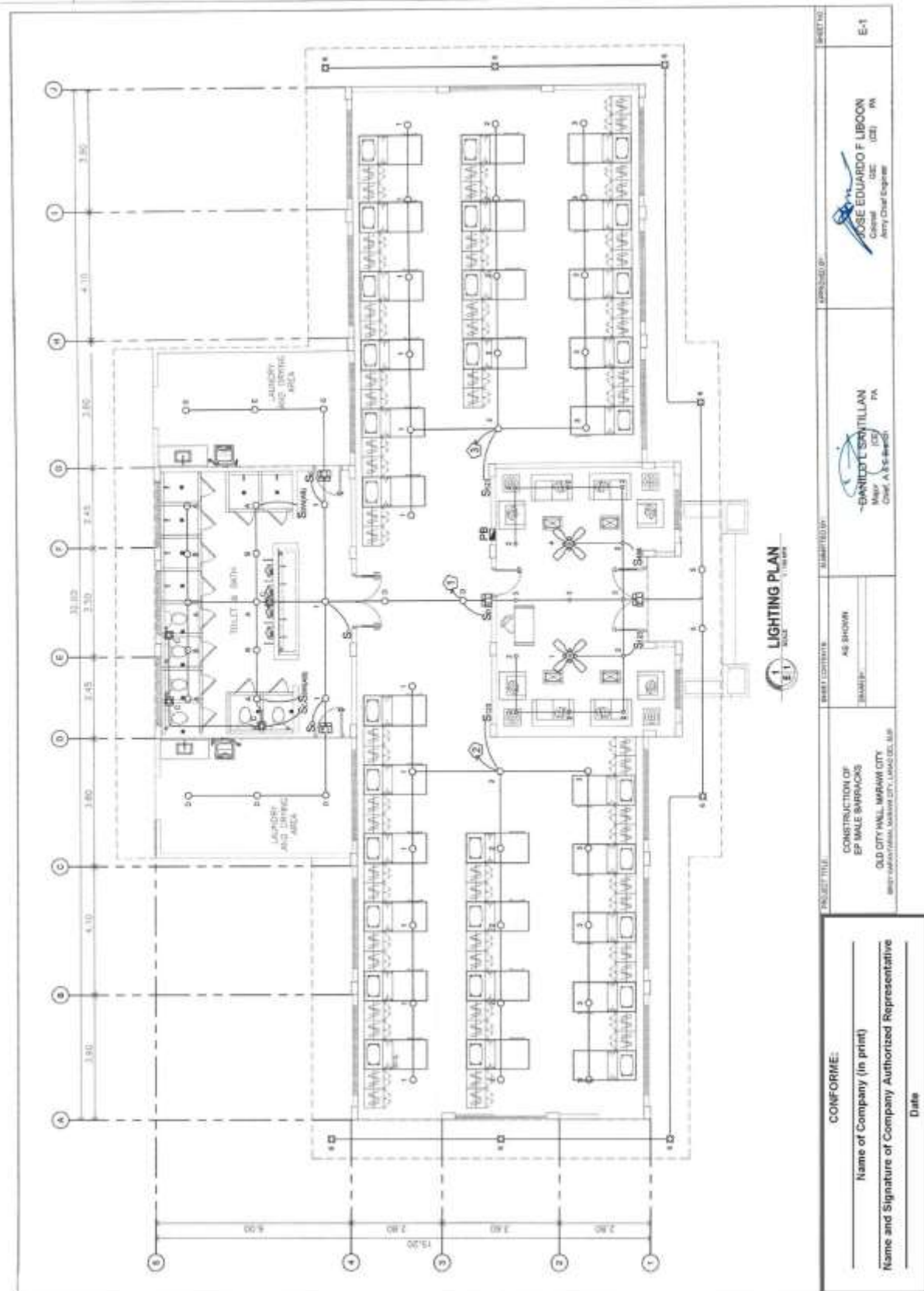
DESIGNED BY: MARAWI CITY ENGINEERS

CHECKED BY: MARAWI CITY ENGINEERS

APPROVED BY: MARAWI CITY ENGINEERS

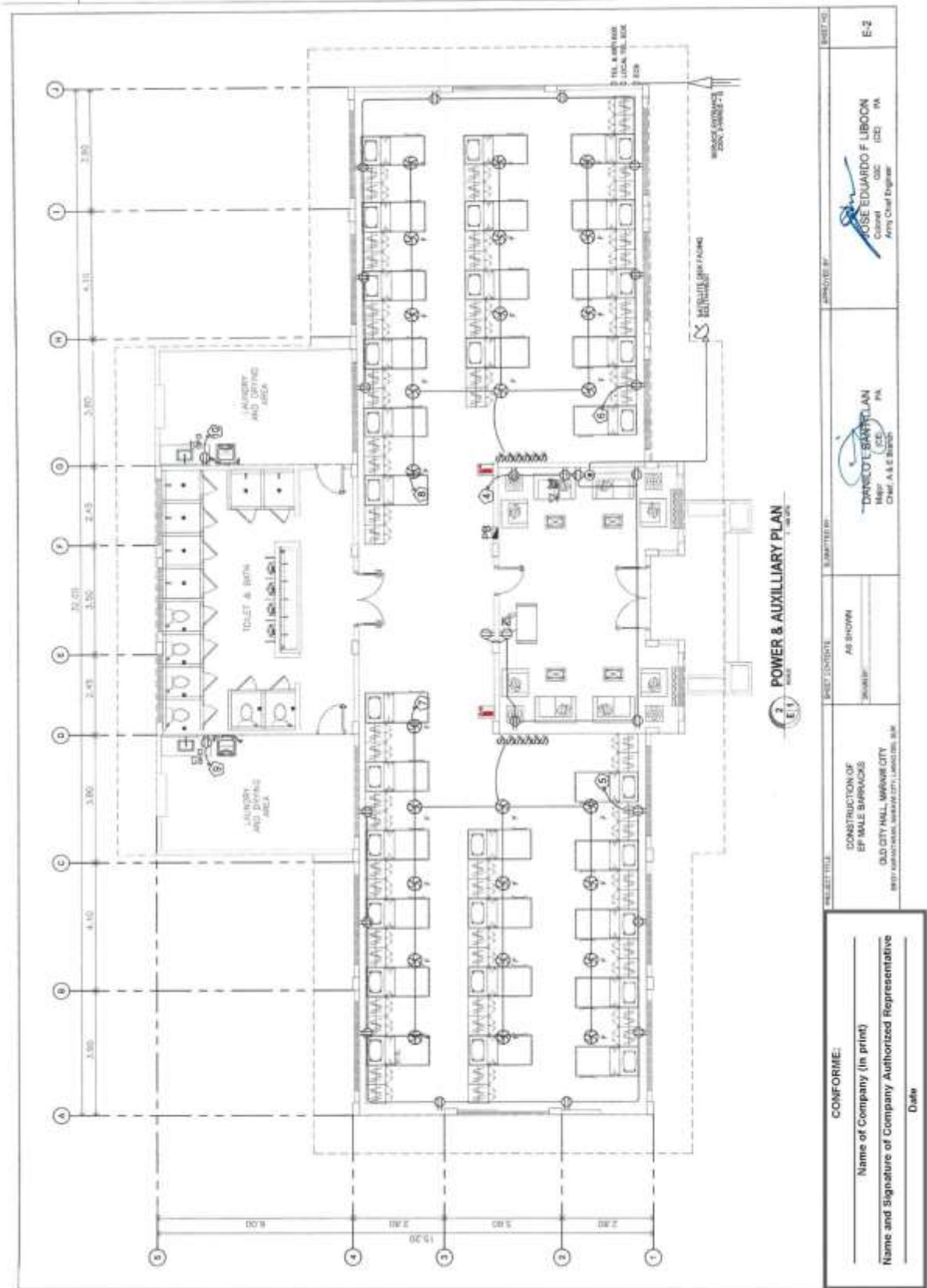
(Page 21/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



<p>CONFORME:</p> <p>_____ Name of Company (in print)</p> <p>_____ Name and Signature of Company Authorized Representative</p> <p>_____ Date</p>		<p>PROJECT TITLE</p> <p>CONSTRUCTION OF EP MALE BARRACKS OLD CITY HALL, MARAWI CITY <small>BRGY. KAPANTARAN, MARAWI CITY, LANA DEL SUR</small></p>	<p>DESIGNED BY</p> <p>AS SHOWN</p>	<p>APPROVED BY</p> <p>_____ DANIEL T. SANTILLAN Mayor <small>Chief, A 35-B-203</small></p>	<p>DATE</p> <p>_____/_____/_____</p>	<p>SHEET NO.</p> <p>E-1</p>
--	--	---	------------------------------------	---	--------------------------------------	-----------------------------

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



SHEET TITLE: POWER & AUXILIARY PLAN SHEET NO.: E-2	DESIGNER: JOSE EDUARDO F. LIBON Civil Engr. (CE) (I&E) PA Army Chief Engineer
SHEET CONTENTS: AS SHOWN SCALE: AS SHOWN	CHECKED BY: DANCOLE SERRILLAN Mech. Engr. (ME) PA Chief. A. & S. Branch
PROJECT TITLE: PROJECT NO.: PROJECT LOCATION:	PROJECT NO.: 2108/01/2024 PROJECT LOCATION: OLD CITY HALL, MARAWI CITY BRGY. KAPANTARAN, MARAWI CITY, LANAO DEL SUR

CONFORME:

Name of Company (in print) _____ Name and Signature of Company Authorized Representative _____ Date _____

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

SCHEDULE OF LOADS FOR PB

PH LOAD SCHEDULE: 75kVA, 220VAC, 2P2W, 60HZ, BOLT-ON TYPE IN INDIA, 3R ENCLASURE

CIRCUIT	LOAD DESCRIPTION	NO. OF LOADS	V.A	LOAD AMPS	AT	WIRING	SIZE OF WIRE AND CONDUIT
1	LIGHTING OUTLET - EXHAUST FAN	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
2	LIGHTING OUTLET	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
3	CEILING FAN	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
4	CONVENIENCE OUTLET - DUPLEX	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
5	CONVENIENCE OUTLET - DUPLEX	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
6	CONVENIENCE OUTLET - DUPLEX	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
7	CEILING FAN	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
8	CEILING FAN	15	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
9	WASHING MACHINE	01	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
10	WASHING MACHINE	01	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
11	SHOWER	01	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
12	SHOWER	01	1,500	250	1.5	10	3-3.0AMP THIN WIRE IN 20MM Ø PVC PIPE
		TOTAL	15,000	2,500	15.0	10	

TOTAL CURRENT: I_t = 15.0A X 1.816 = 27.24A
 MAX PROBLEM: I₁ = 3.0AMP THIN WIRE + 1.5AMP THIN WIRE IN 20MM Ø PVC PIPE
 MAX CURRENT BREAKER: 75kVA, 220VAC, 2P2W, BOLT-ON TYPE IN INDIA 3R ENCLASURE

POWER RISER DIAGRAM

LEGEND

⊙	CONVENIENCE OUTLET, DUPLEX, 2-WIRE, 2-POLY	⊙	CONVENIENCE OUTLET, DUPLEX, 2-WIRE, 2-POLY
⊙	LED PANEL LIGHT 2P 2W, RECESSED TYPE	⊙	CABLE TV OUTLET
⊙	LED PANEL LIGHT 4P 2W, RECESSED TYPE	⊙	EMERGENCY LIGHT, 2 LED BULB
⊙	CEILING FAN CENTRAL, 170 W, SELECTOR SWITCH	⊙	SERVICE ENTRANCE 2P, 2-WIRE
⊙	CONDUIT FAN 200 X 200, CEILING TYPE	⊙	AFC FIRE EXTINGUISHER, 15LBS
⊙	TELEPHONE OUTLET	⊙	SMALL GANG SWITCH, FLUSHED
⊙	CEILING FAN W/ LED BULB	⊙	TWO GANG SWITCH, FLUSHED
⊙	TELEPHONE & WIFI ROUTER	⊙	THREE GANG SWITCH, FLUSHED
⊙	SERVICE ENTRANCE, INTERNET W/ R	⊙	COUNTER TOP CO, 3-PHASE, 2-WIRE, 3-POLY
⊙	PANEL BOARD, 2P, 2-WIRE, 2-POLY	⊙	CEILING FAN SELECTOR SWITCH
⊙	SATELLITE DISH, 1.2M, SOUTH-FACING	⊙	CIRCUIT BREAKER

LOCAL TELEPHONE RISER DIAGRAM

LOCAL TELEPHONE & WIFI RISER DIAGRAM

CATV RISER DIAGRAM

SINGLE LINE DIAGRAM

PROJECT TITLE	SHEET CONTENTS	DESIGNED BY	APPROVED BY	SHEET NO.
CONSTRUCTION OF BP MALE BARRACKS OLD CITY HALL, MARAWI CITY BPSP (MARAWI), MARAWI CITY, LANA DEL SUR, B.P.	AS SHOWN DRAWING	DANIEL D. SANTIAPAN Major (25) PA	JOSE EDUARDO F. LUBON Colonel (25) PA Army Chief Engineer	E-3

CONFORME:

Name of Company (in print) _____

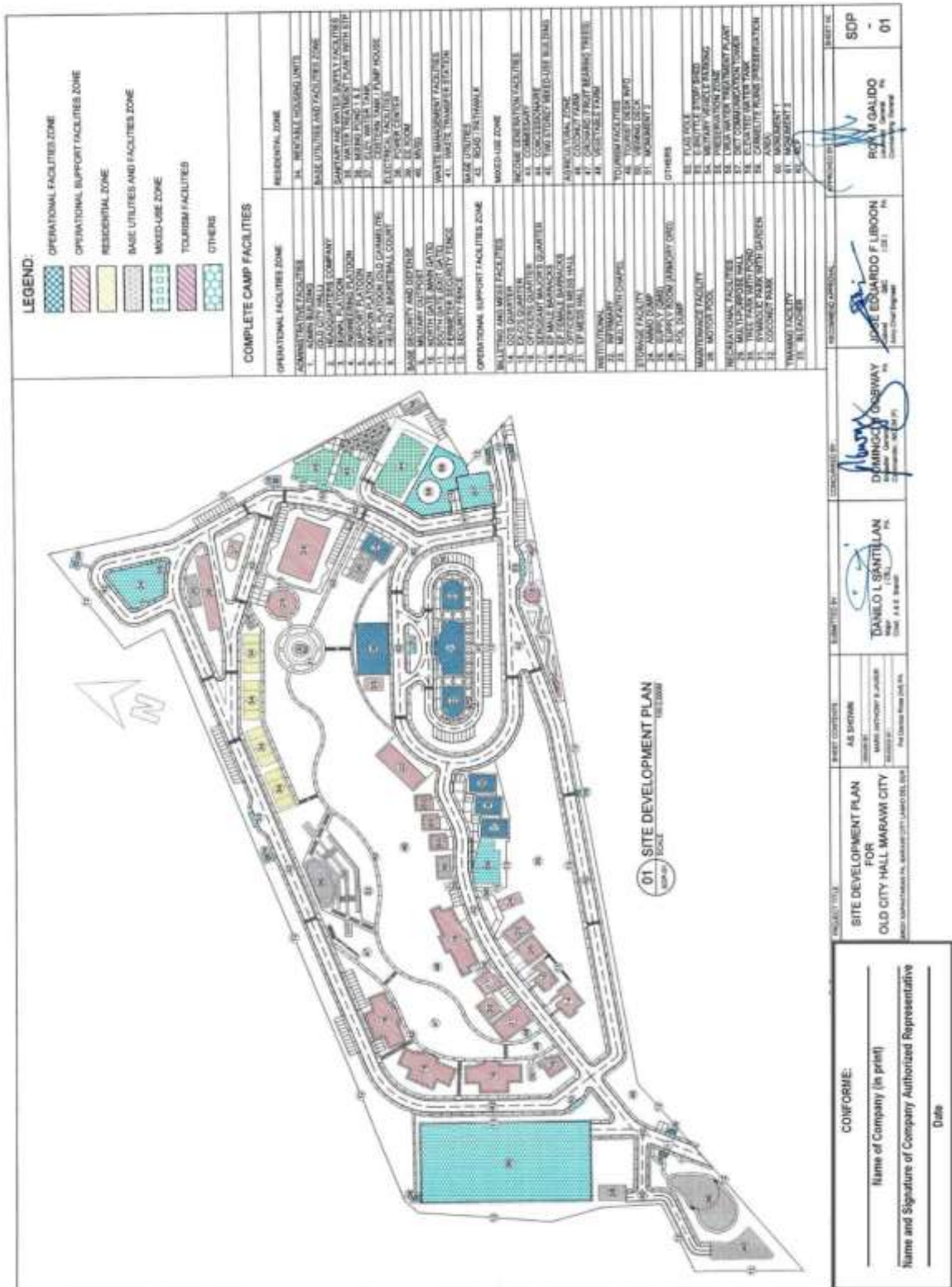
Name and Signature of Company Authorized Representative _____

Date _____

(Page 24/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)

Bid Ref. No. ENG'G PABAC3 017-24



(Page 25/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

The architectural drawings include:

- 1 PERSPECTIVE (A-1) SCALE:** A 3D rendering of the Officers Mess Hall building, showing its facade with large windows and a sign that reads "OFFICERS MESS HALL".
- 2 VICINITY MAP (A-1) SCALE:** A map showing the project site's location within the surrounding area, with labels for "THE SITE", "MELAL", "BARKAN", and "DARABUT".
- 3 LOCATION MAP (A-1) SCALE:** A detailed site plan showing the layout of the building and its various sections.
- 4 SITE LOCATION PLAN (A-1) SCALE:** A plan showing the building's location relative to nearby roads and structures, with dimensions of 12.26 and 15.78.

CONFORME:

Name of Company (in print) _____

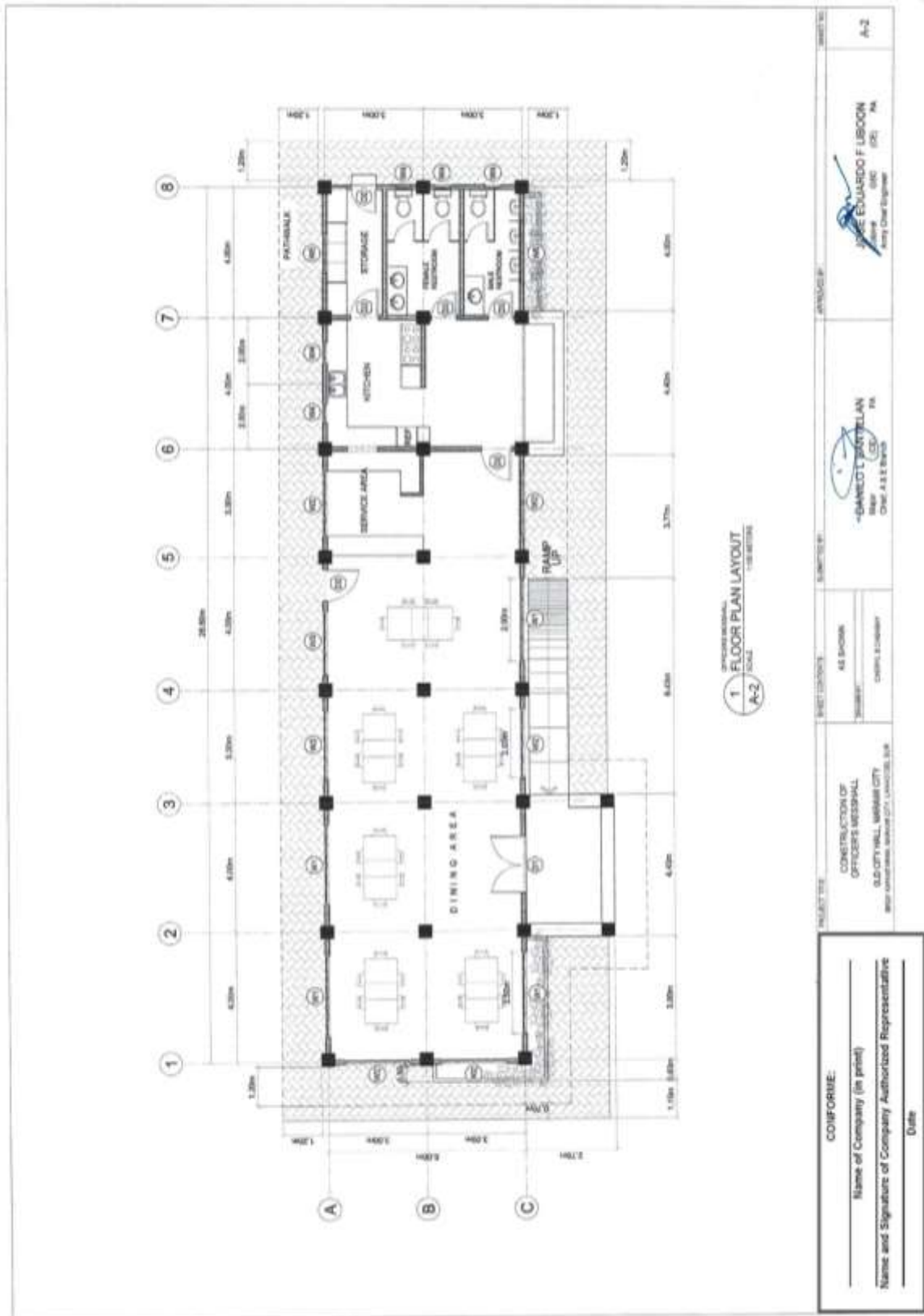
Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE:	CONSTRUCTION OF OFFICERS MESS HALL, OLD CITY HALL, MARAWI CITY, BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR	DESIGNED BY:	AS BROWN Pvt. (Design Phase) RMC PA	DATE:	10/11/2023	APPROVED BY:	ROYAN GALILDO Landscape Architect Landscape Architect	SHEET NO.:	A-01
PROJECT TITLE:	CONSTRUCTION OF OFFICERS MESS HALL, OLD CITY HALL, MARAWI CITY, BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR	DESIGNED BY:	DANILLOY SANTILAN Landscape Architect Landscape Architect	DATE:	10/11/2023	APPROVED BY:	JOSE EDUARDO F. LIBROON Landscape Architect Landscape Architect		
PROJECT TITLE:	CONSTRUCTION OF OFFICERS MESS HALL, OLD CITY HALL, MARAWI CITY, BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR	DESIGNED BY:	DOMINGO B. BAYAN Landscape Architect Landscape Architect	DATE:	10/11/2023	APPROVED BY:			

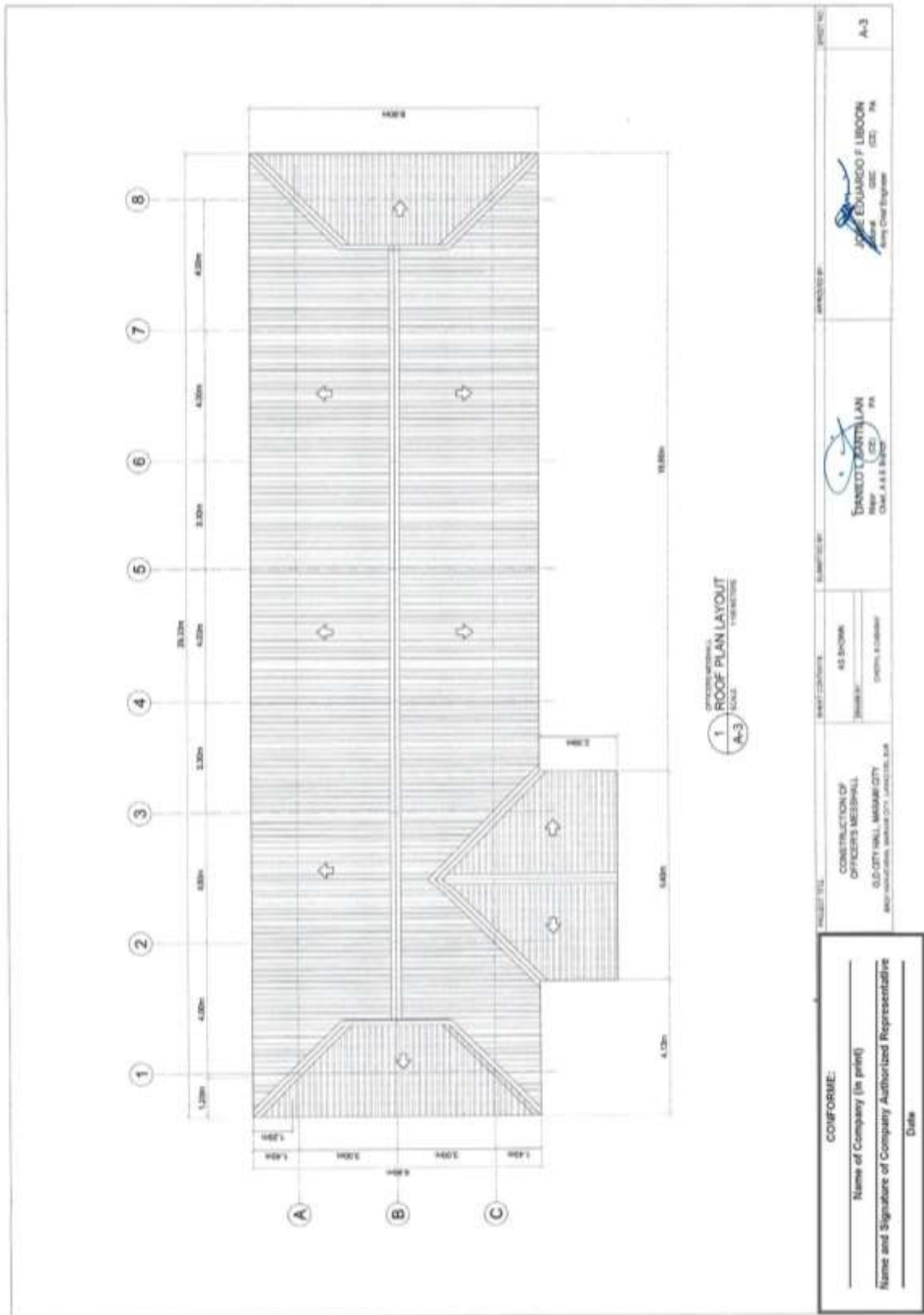
(Page 26/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



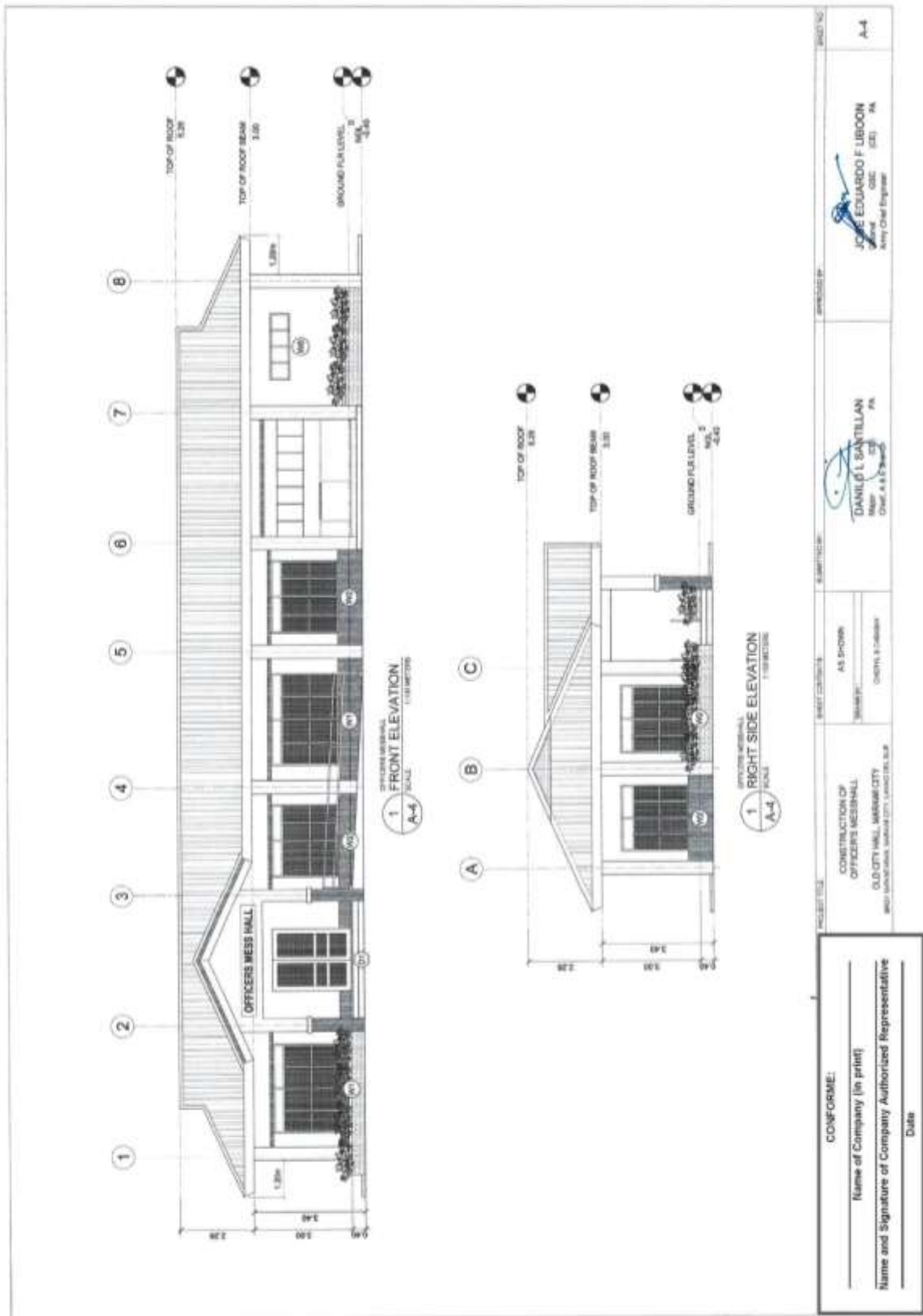
(Page 27/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

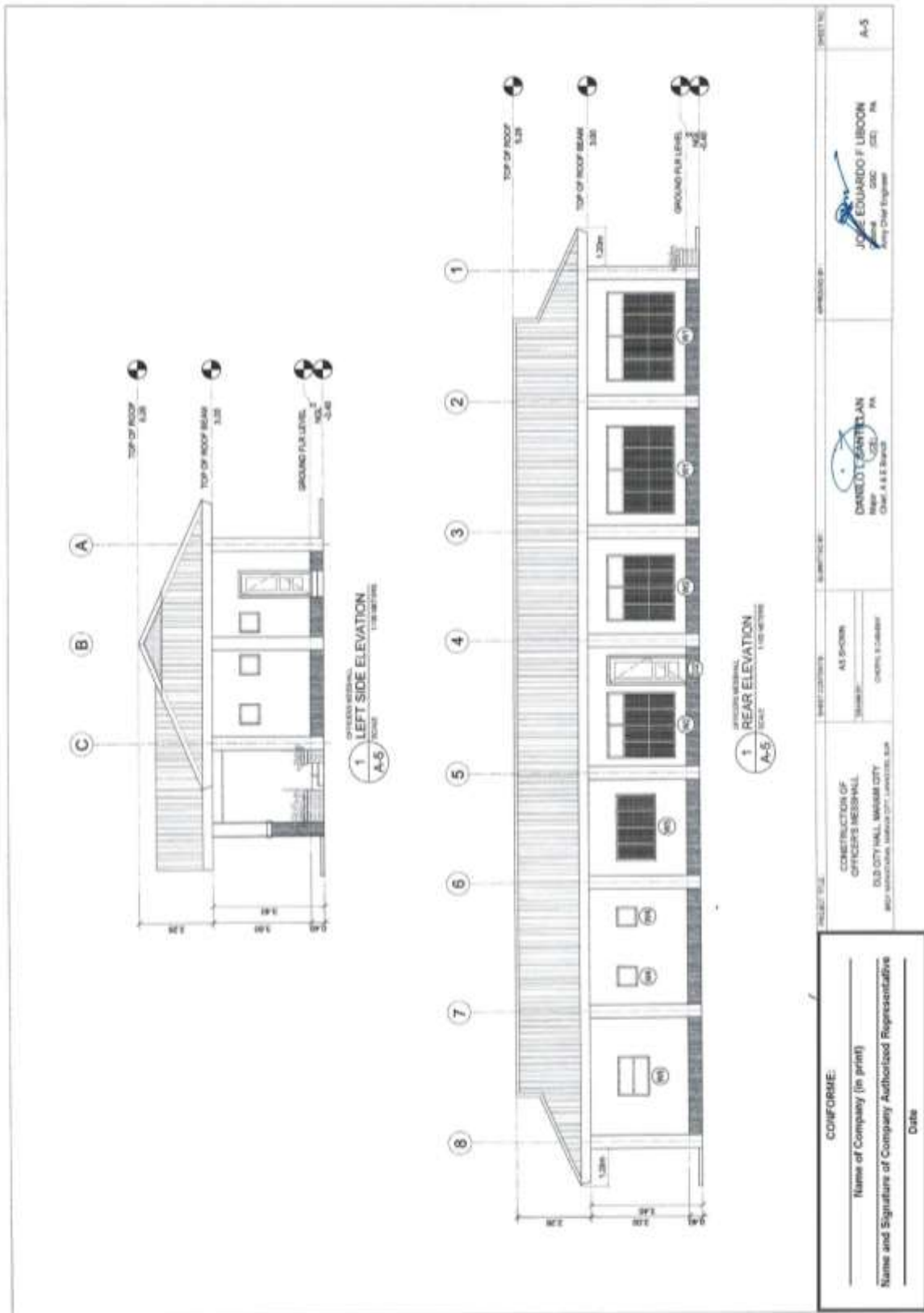


(Page 28/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

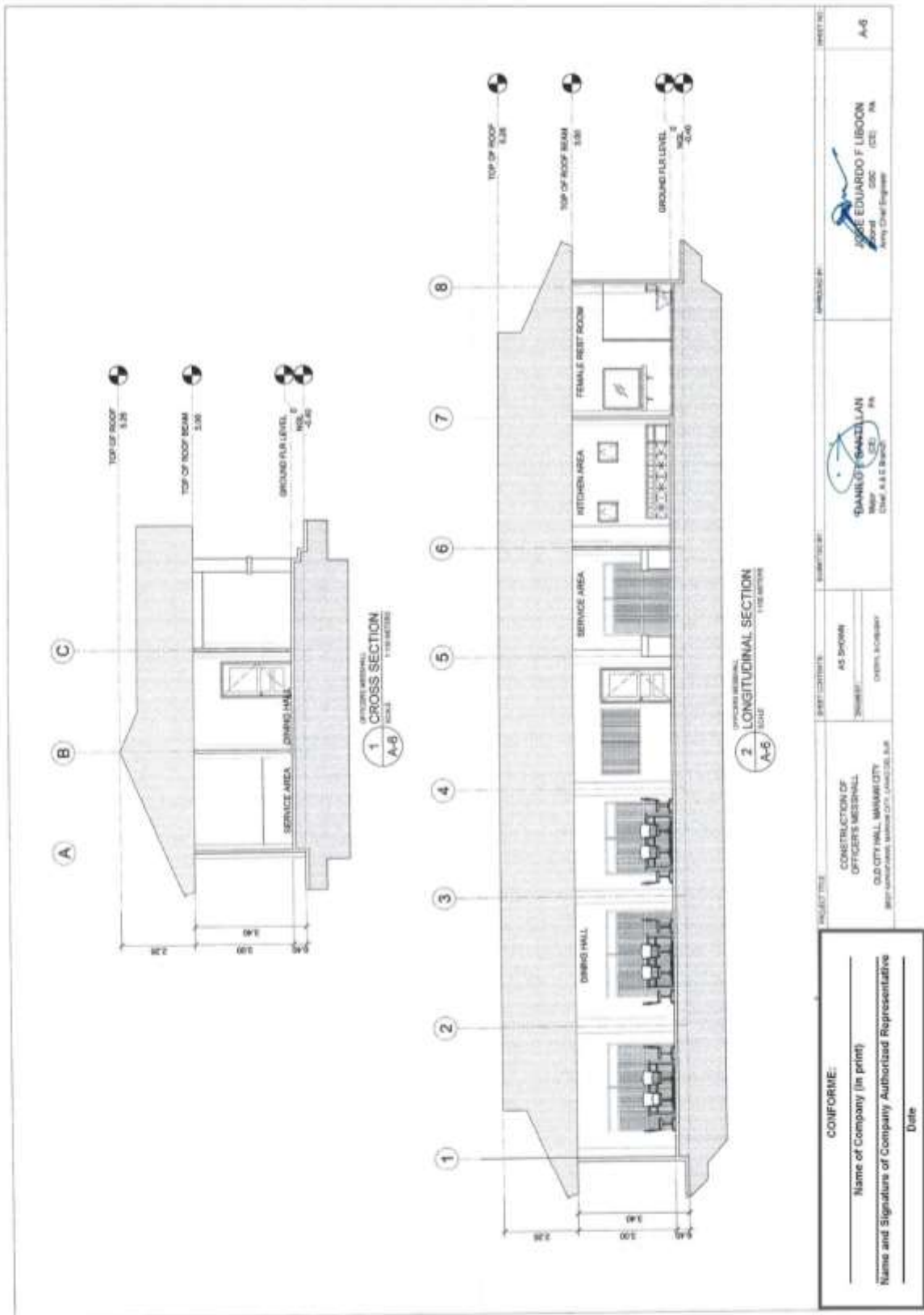


(Page 29/78)
Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 30/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 31/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

1 DOORS AND WINDOWS SCHEDULE
1:10 SCALE

PROJECT TITLE:
CONSTRUCTION OF OFFICERS MESSHALL OLD CITY HALL MARAWI CITY BRGY KAPANTARAN, MARAWI CITY, LANA DEL SUR

PROJECT SITE:
AS SHOWN

PROJECT NO.:
SUBMIT

PROJECT DATE:
DATE

DESIGNED BY:
MAJOR EDUARDO F. LIBLOON
RSC (IE) PA
Army Chief Engineer

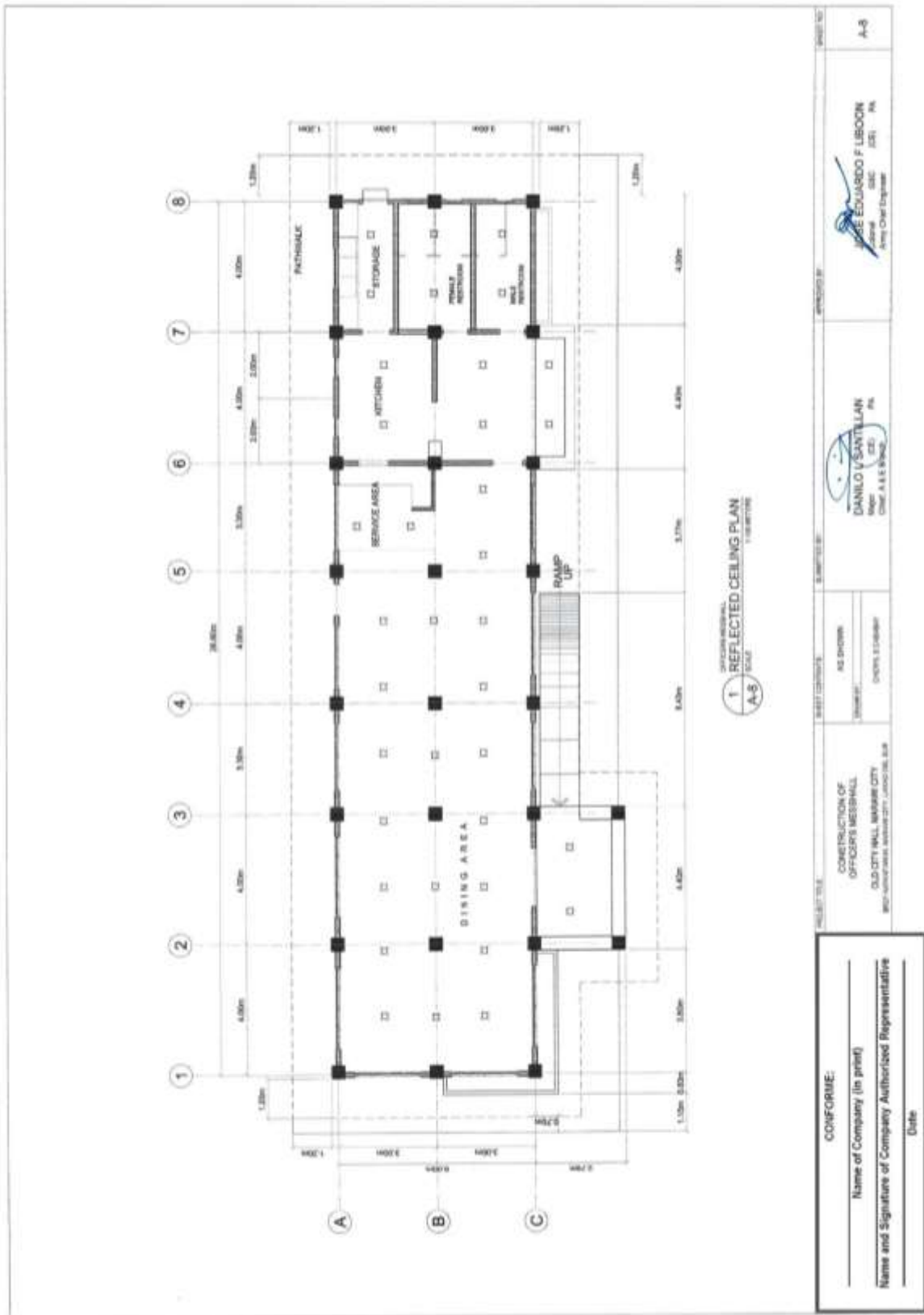
CHECKED BY:
MAJOR DANIEL S. SERRILLAN
RSC (IE) PA
Chief A.E.E. Branch

DATE:
DATE

CONFORME:
Name of Company (In print)
Name and Signature of Company Authorized Representative
Date

(Page 32/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG'G PABAC3 017-24



(Page 33/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG'G PABAC3 017-24

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO SHOP DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR SCHEDULES, COLUMN AND WALL OPENINGS IN THE WALLS AND SLABS, NEIGHBOR PARTITION, LOCATION OF DOORS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL, SLAB AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE AD-118, 30, BRACING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH ASS. SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- AS TO REFERENCES TO AMERICAN CONCRETE INSTITUTE, AS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MECHANICAL AND ELECTRICAL, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL NECESSARIES CURBS, SILLS, STOPS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL ENGINEER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS (70% DAYS) W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF MAX. SLUMP AGGREGATE
ALL CHORES INCLUDING SUSPENDED SLABS,	3000 PS (20.70 MPa)	20mm
COLUMNS	3000 PS (20.70 MPa)	20mm
BEAMS, SLABS	3000 PS (20.70 MPa)	20mm
SLAB ON FILL	3000 PS (20.70 MPa)	20mm

- MINIMUM MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.

SUSPENDED SLAB	20mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	20mm
BEAM STRIPS AND COLUMN TIES	40mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT FORMS AGAINST FORMS	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST DAM	75mm

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, SHOVELS OR WHEELBARROWS, NO DRUMS WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO SETTING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF ABRASORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

TYPICAL CONNECTION DETAIL OF MASONRY WALL

TYPICAL CONNECTION DETAIL OF MASONRY WALL

- CORNER WALL:** 12 THK. EXPANSION JOINT WITH MASTIC FILLER, 400 (MIN) DOWN, 1-#12 VERT. BARS FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES.
- INTERSECTION WALL:** 1-#12 VERT. BARS WITH MASTIC FILLER, 400 (MIN) DOWN, FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES.
- OPENING OR END WALL:** 1-#12 VERT. BARS, CHB WALL, FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES.
- INTERSECTING R.C. COLUMN OR WALL:** R.C. COLUMN OR WALL, DOWNL. BARS TO MATCH CHB HOR. BARS, 12 THK. EXPANSION JOINT WITH MASTIC FILLER, 400 (MIN) DOWN.

TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

SECTION

200 (MIN) DOWN, #10 STRIPS @ 130 O.C., CHB WALL, 1-#12 VERT. BARS TYPICAL, FIN. F.L. LVL.

FOR SIZE AND SPACING OF HOR. & VERT. BARS SEE CONSTRUCTION NOTES. DOWNL. BARS TO MATCH CHB VERT. BARS, 2-#12 TOP BARS, 2-#12 BOT. BARS.

NOTES ON FOOTINGS

- FOOTINGS SHALL REST AT LEAST 1500mm BELOW MEASUR. GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND SHALL BE FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT: CONSTRUCTION OF OFFICERS MESSHALL OLD CITY HALL MARAWI CITY (BID NO. 271, UNAC318, B/P)

CLIENT: AS 3-YOUTH

DESIGNER: DANIEL Y. SANTILLAN (P.E.)

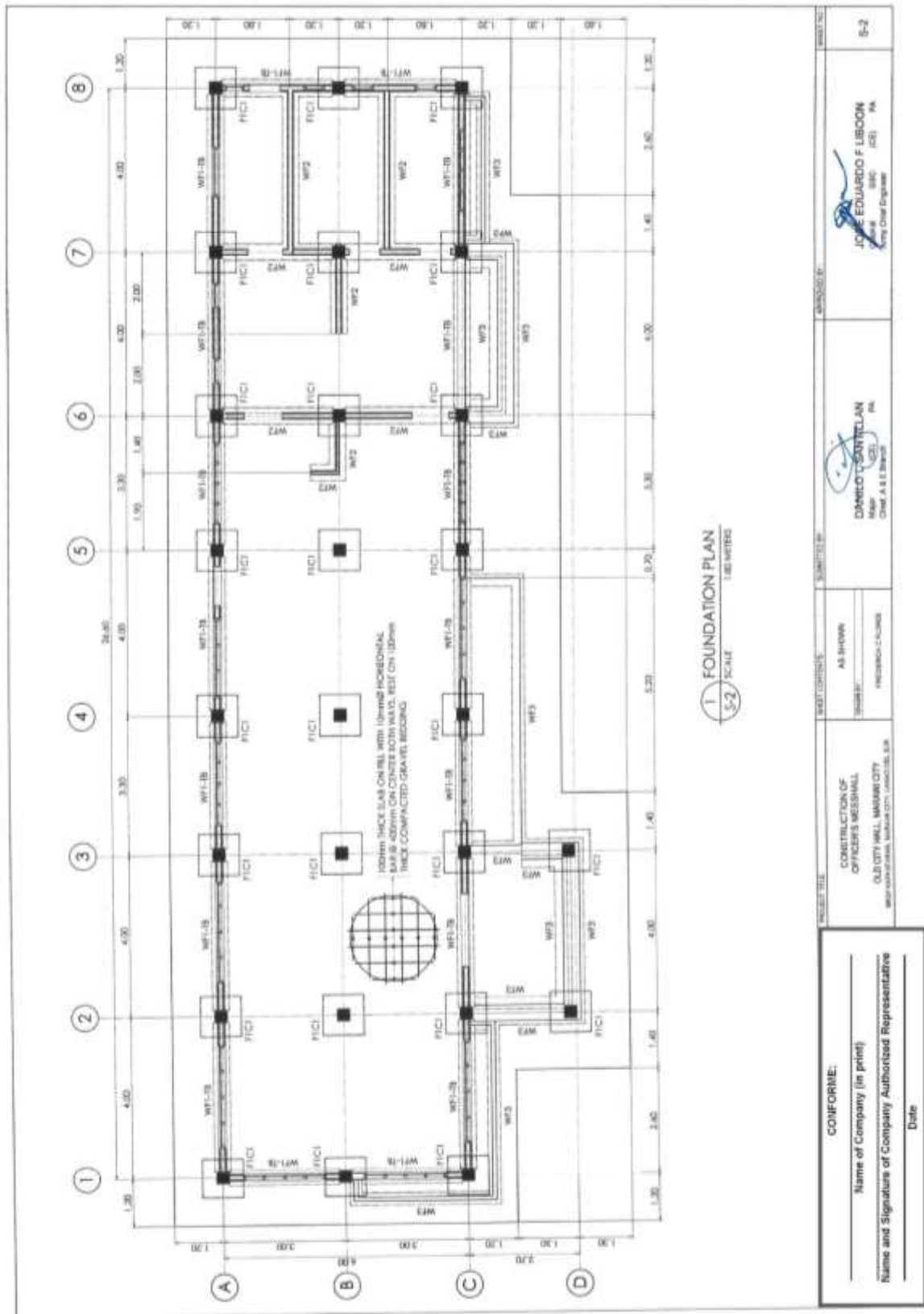
DATE: _____

SCALE: 5-1

ENGINEER: JOSE EDUARDO F. JURION (P.E.)

(Page 34/78)

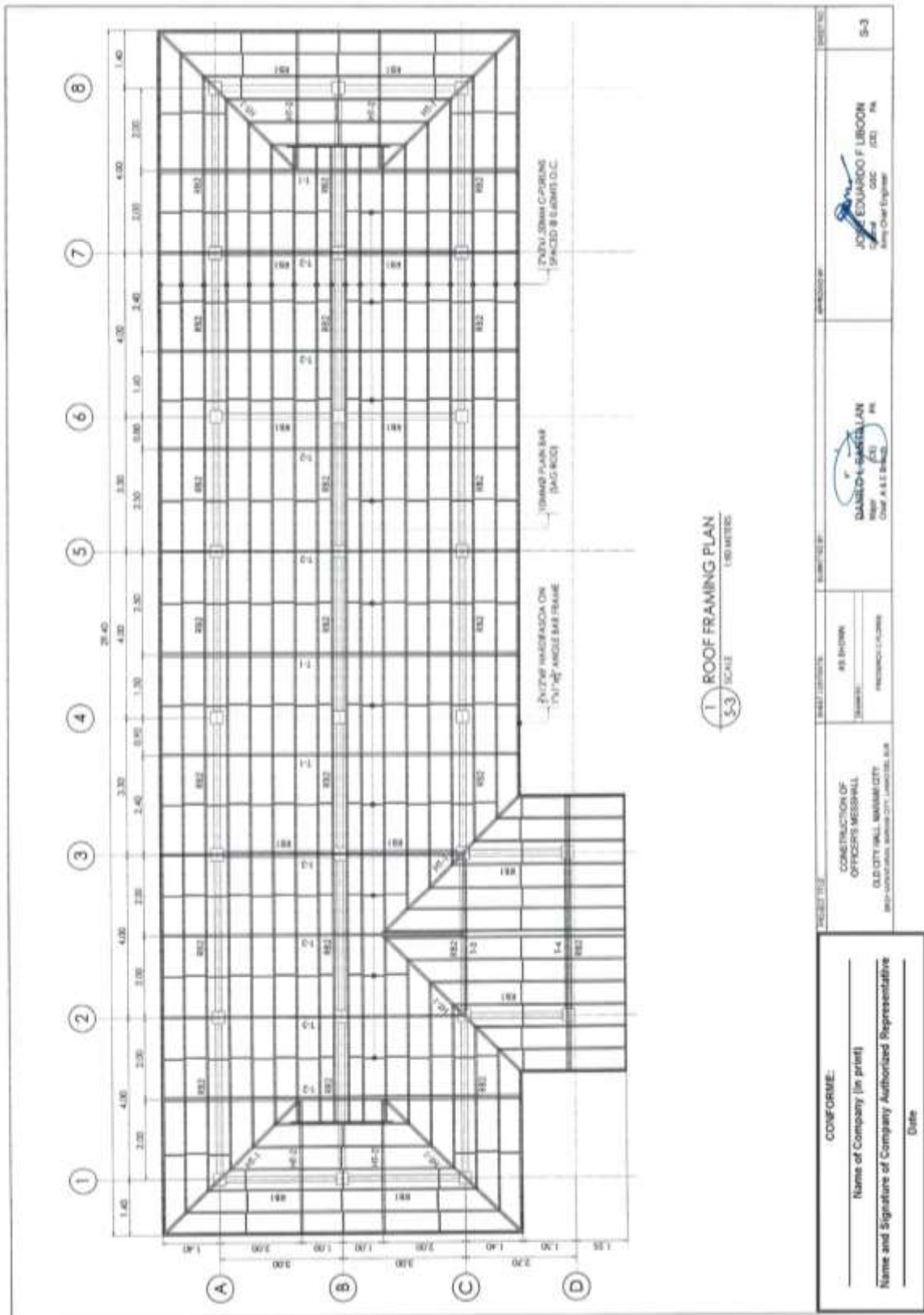
Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



<p>CONFORME:</p> <p>_____ Name of Company (in print)</p> <p>_____ Name and Signature of Company Authorized Representative</p> <p>_____ Date</p>	PROJECT TITLE	SUBMITTED BY	APPROVED BY	DATE
	CONSTRUCTION OF OFFICERS MESSHALL OLD CITY HALL, MARAWI CITY <small>WARD 1004 OF MARAWI, LANAOS DEL SUR, PHILIPPINES</small>	AS SHOWN	DANIELO L. SANTILLAN MAJOR (CE) PA Chief, A.E.C. Branch	JIM E. EDUARDO F. LIBOON MAJOR (CE) PA City Chief Engineer

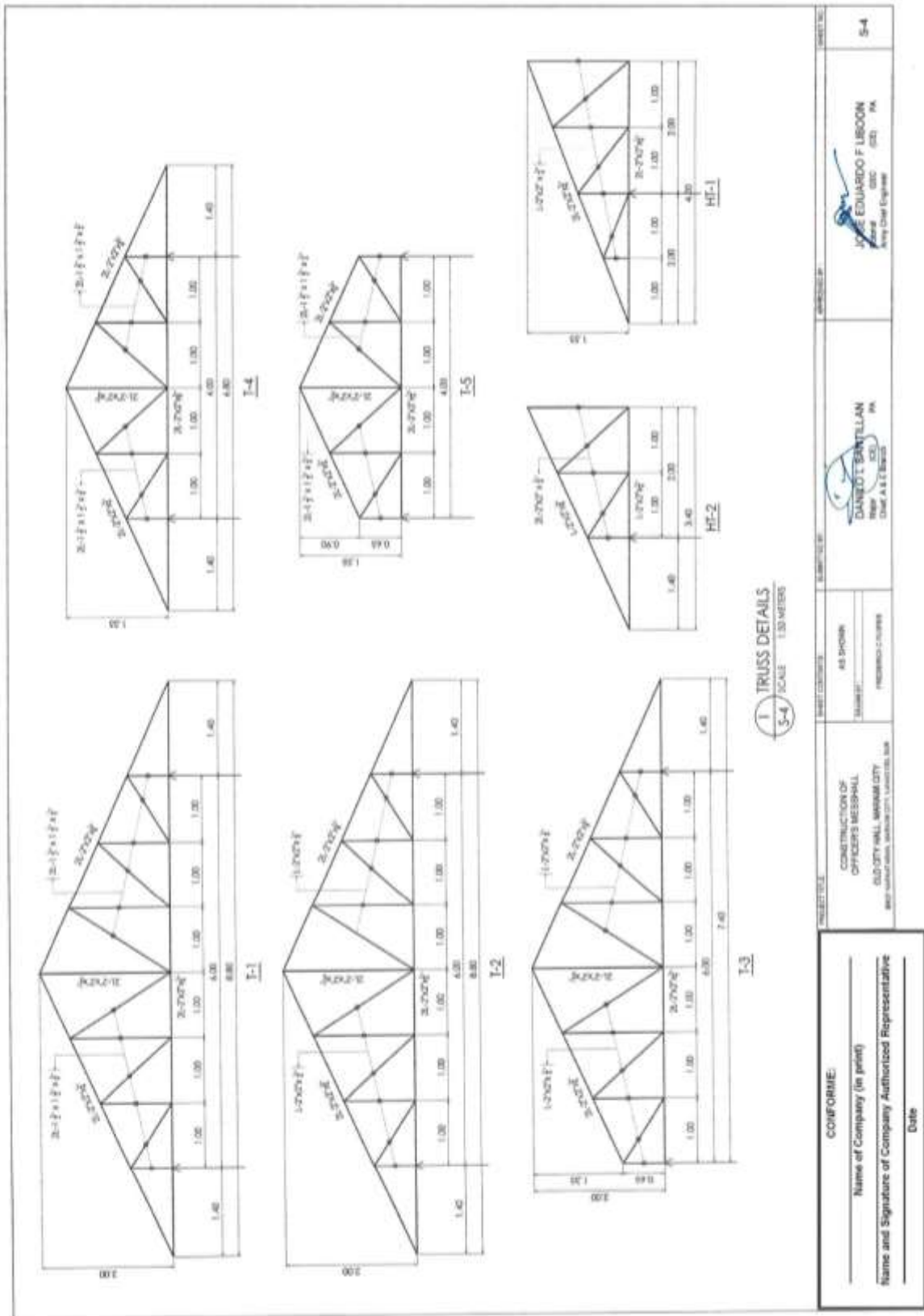
(Page 35/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



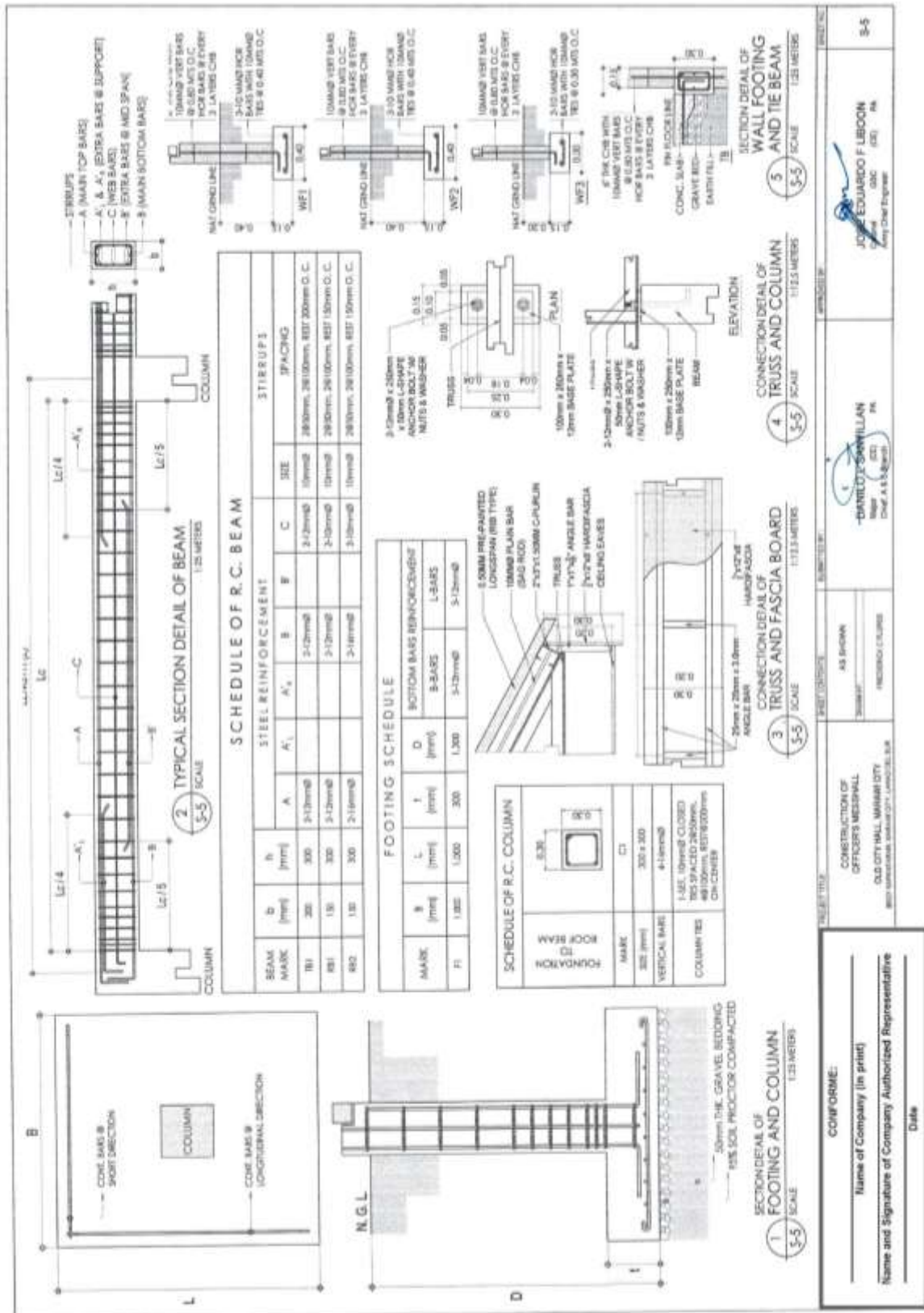
(Page 36/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 37/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE: CONSTRUCTION OF OFFICER'S MESSHALL, OLD CITY HALL, MARAWI CITY

AS SHOWN

PREPARED BY: FREDDY C. LUPIS

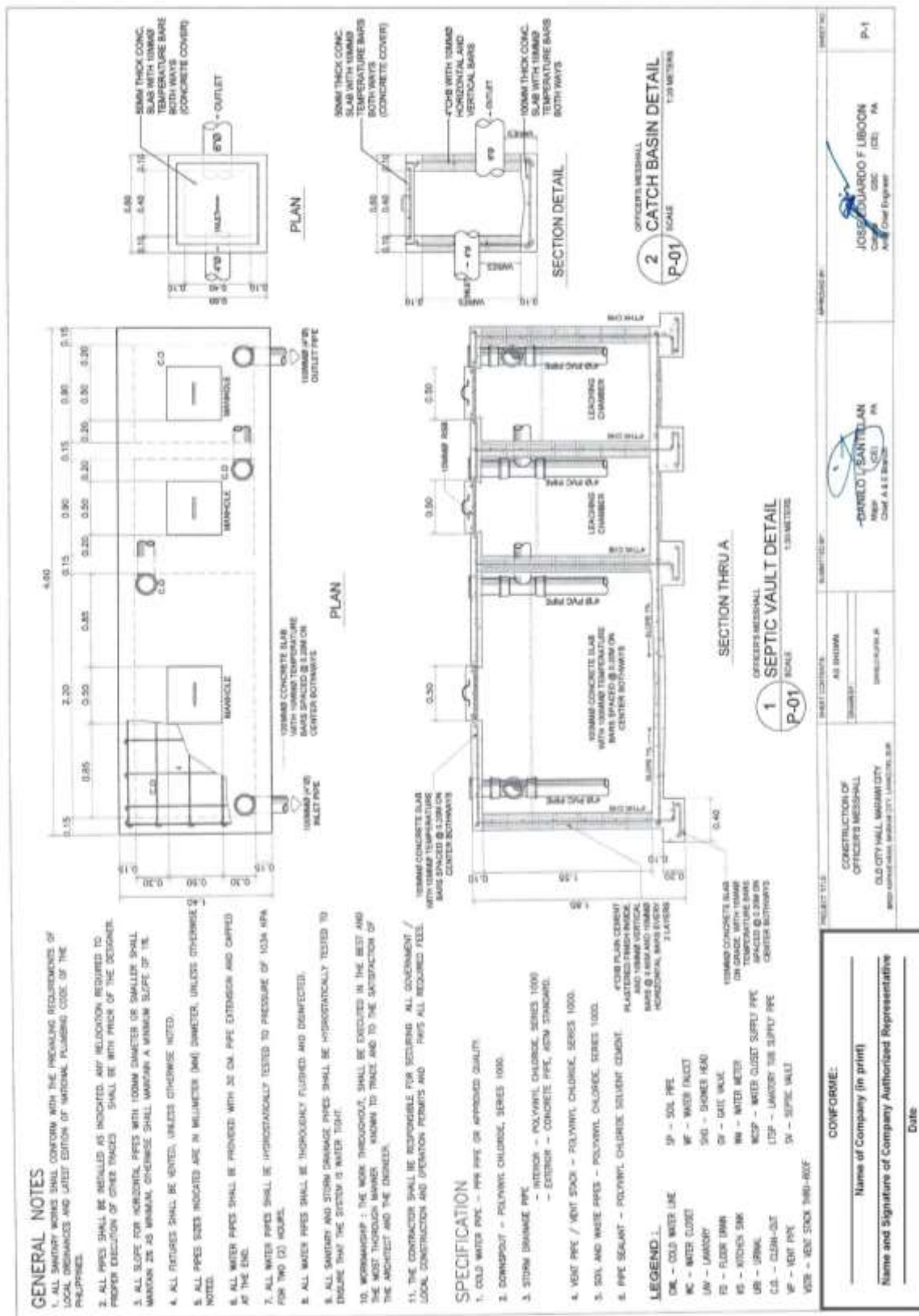
DESIGNED BY: EDUARDO F. LIBRON

Checked by: EDUARDO F. LIBRON

Scale: 3-5

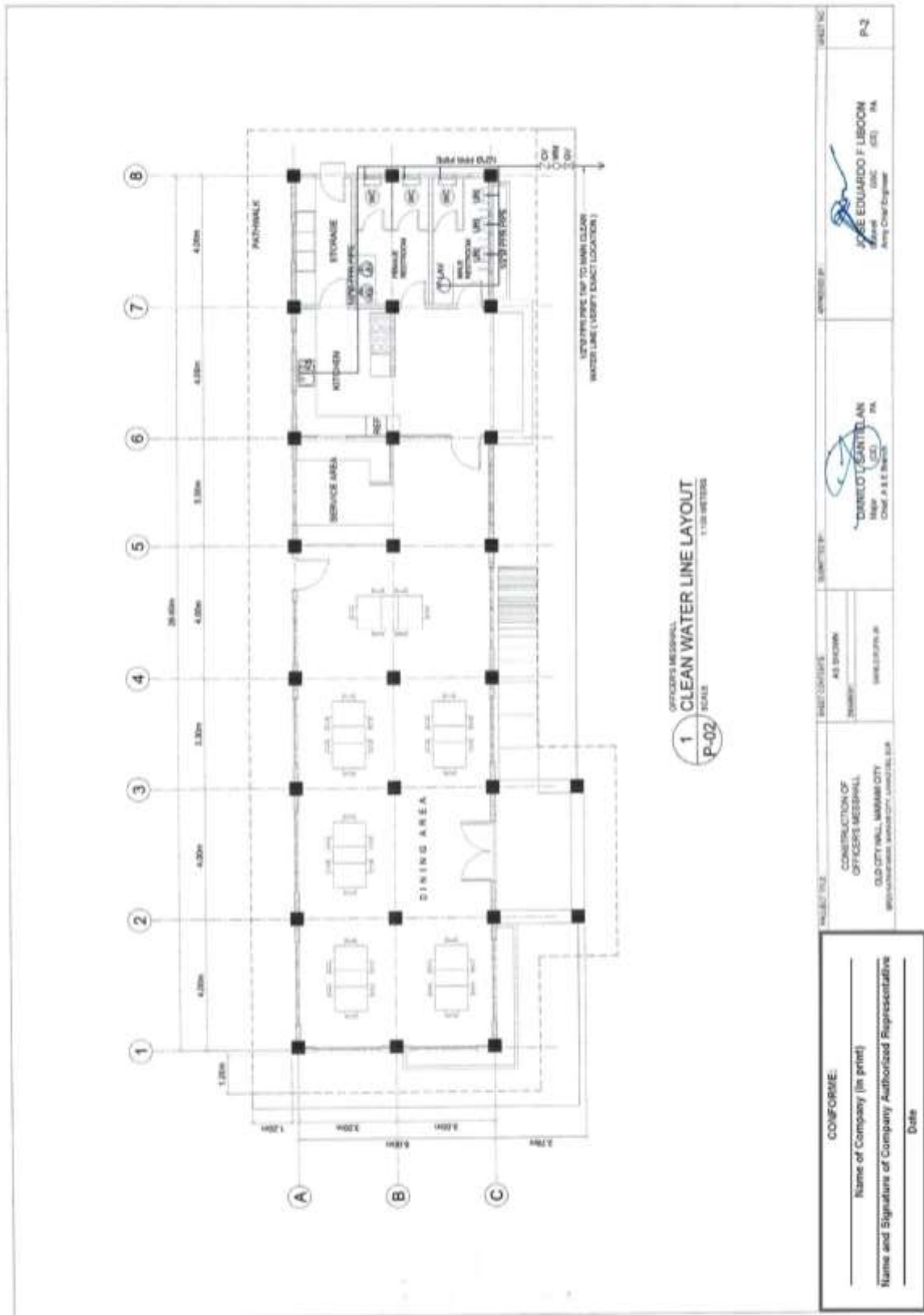
(Page 38/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



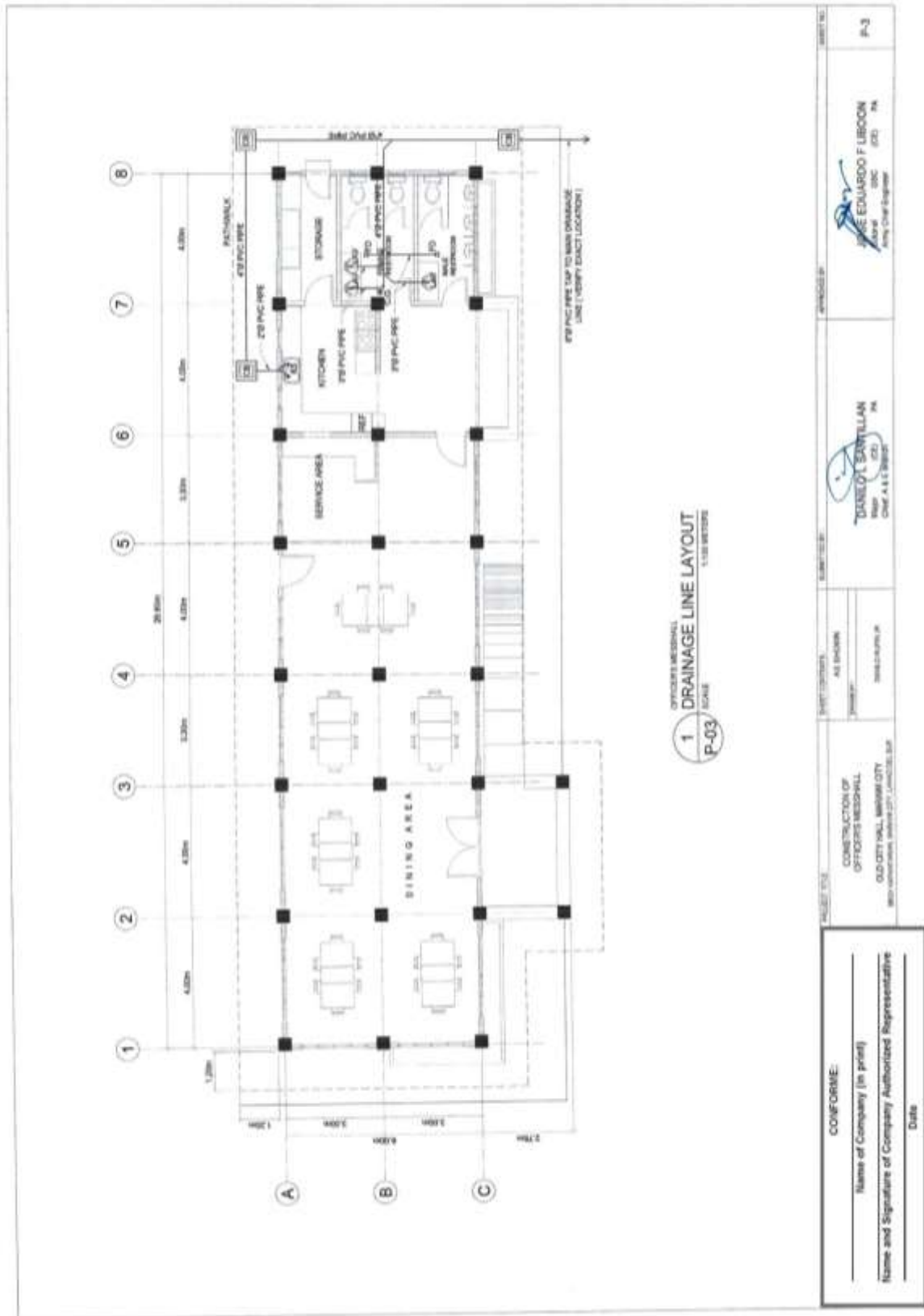
(Page 39/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



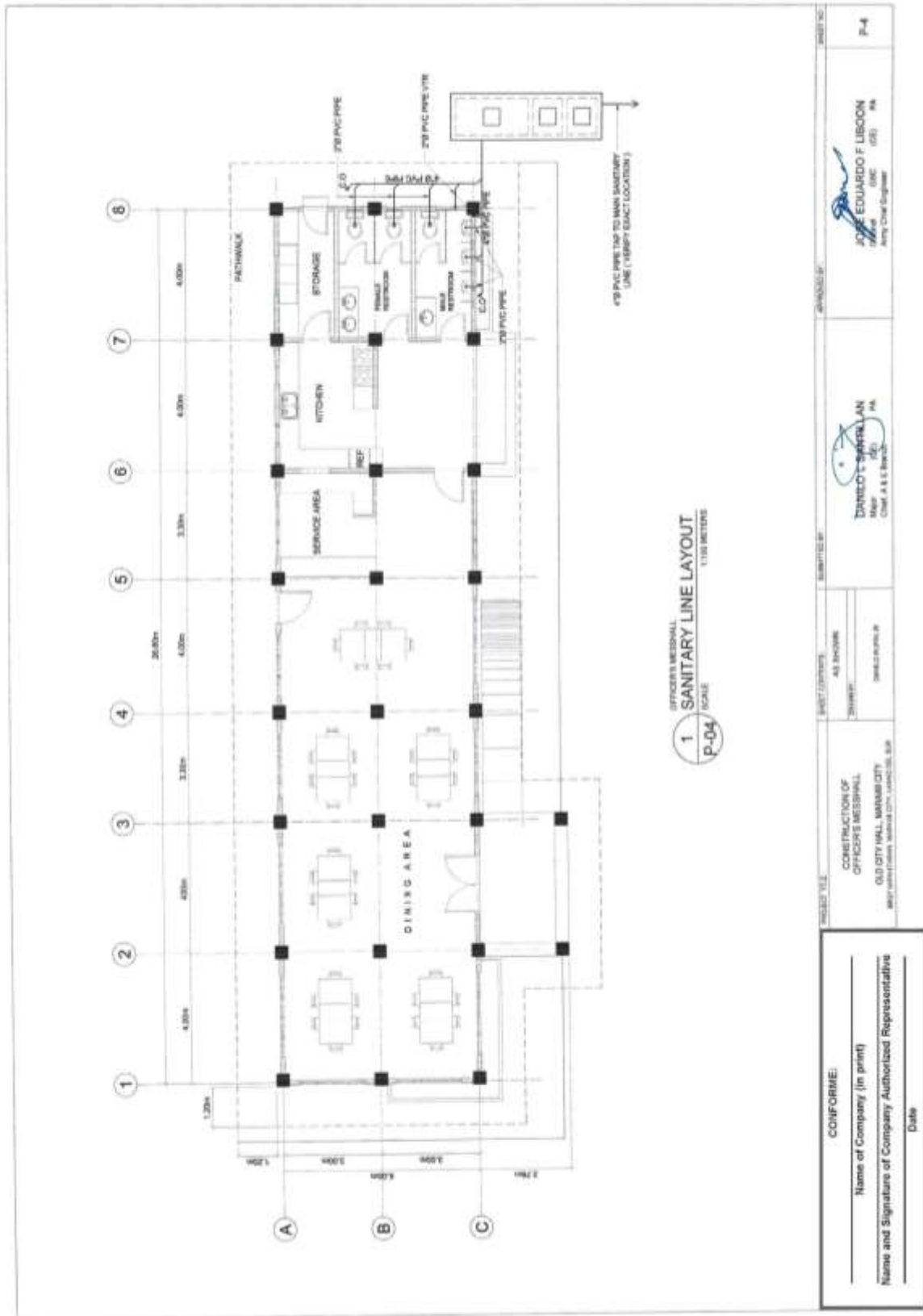
(Page 40/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



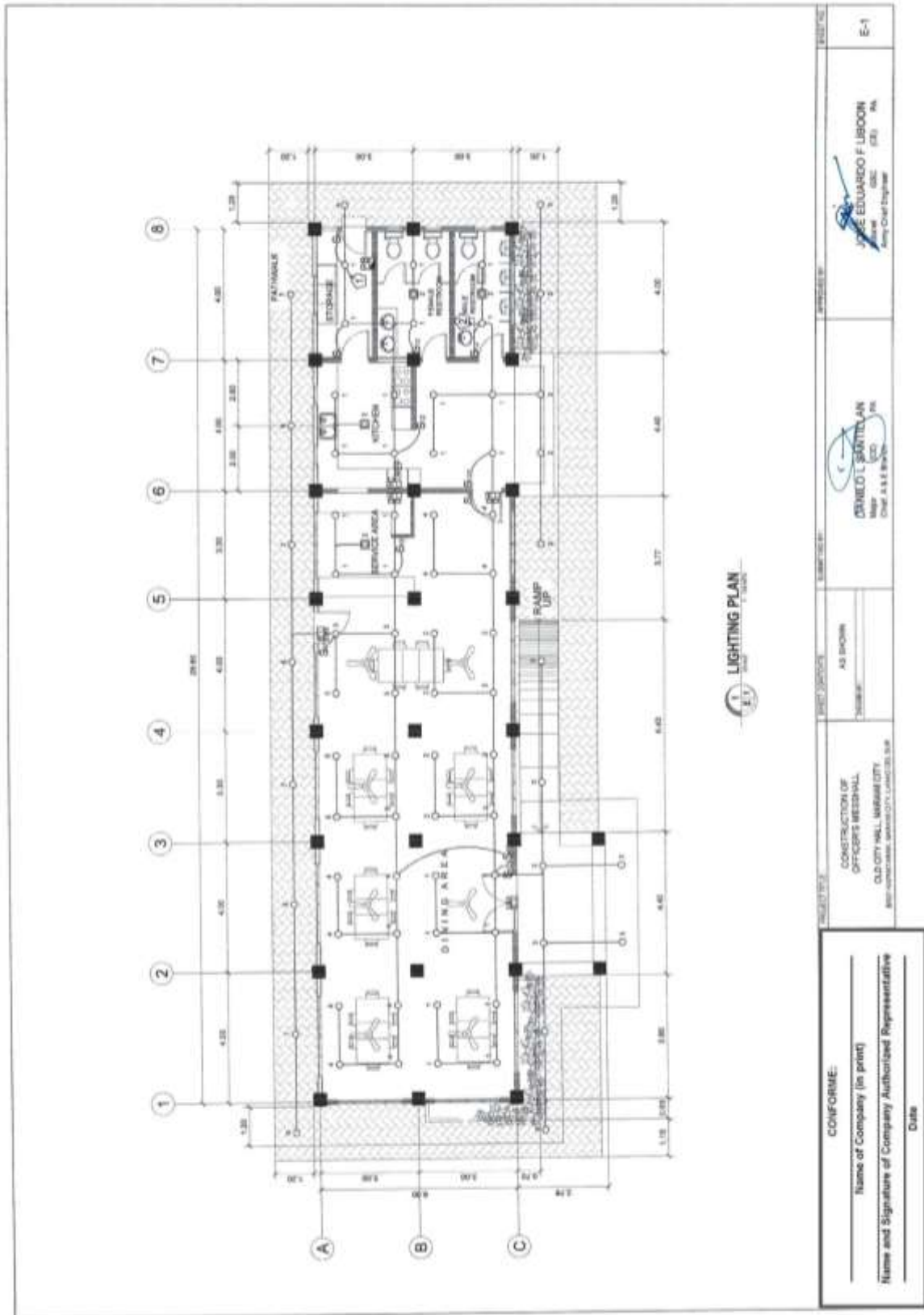
(Page 41/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 42/78)

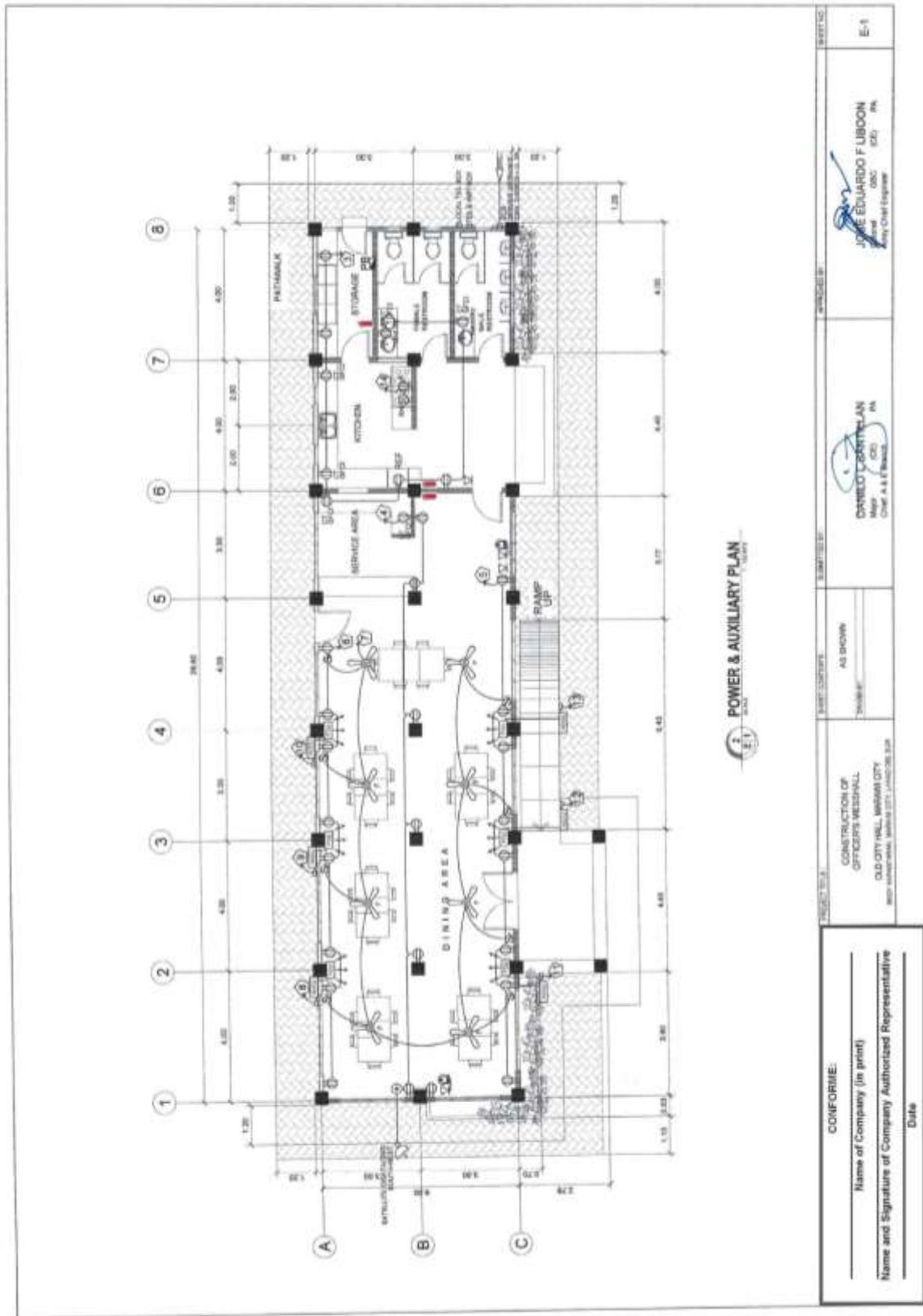
**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



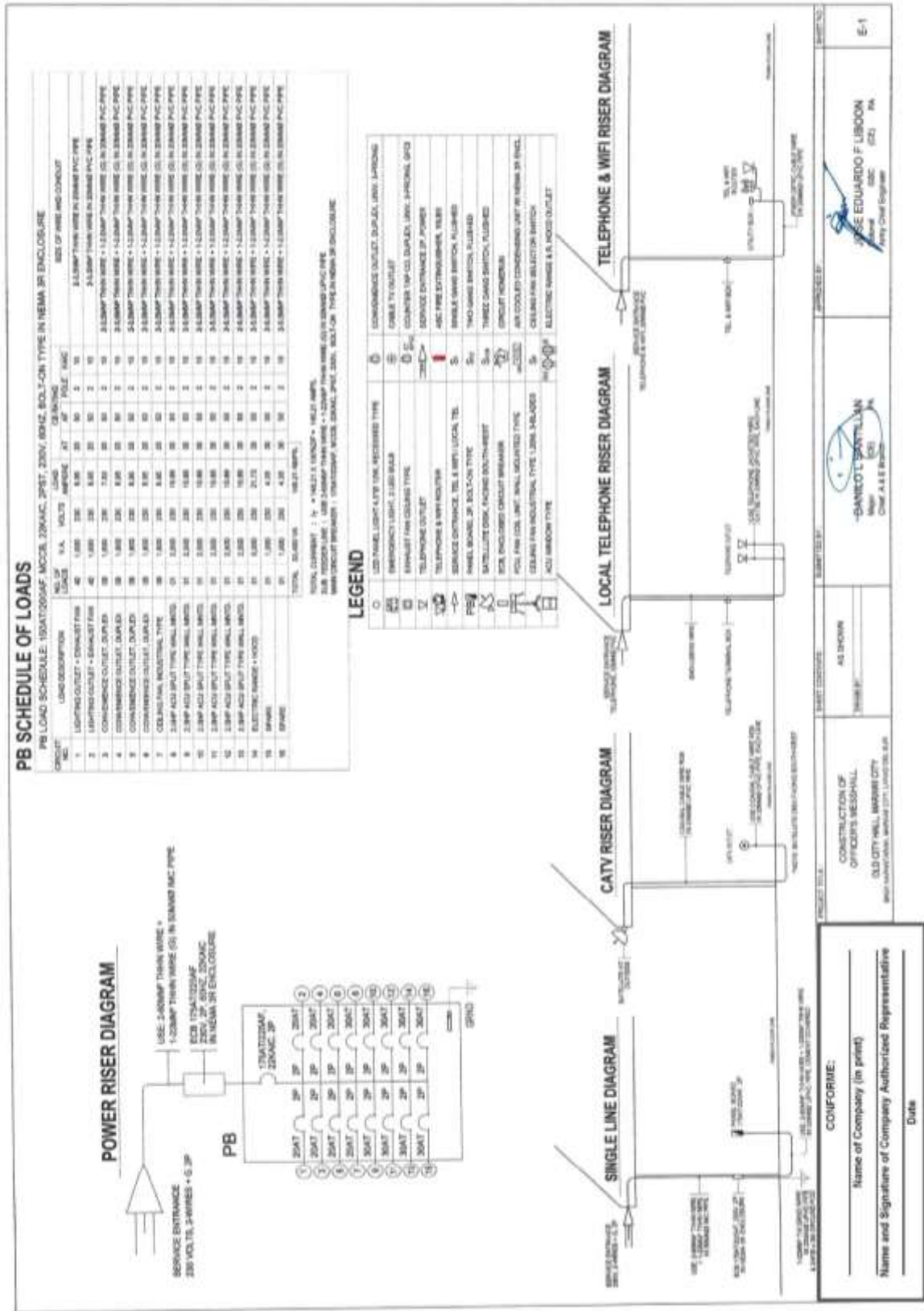
<p>CONFORME:</p> <p>Name of Company (in print)</p> <p>Name and Signature of Company Authorized Representative</p> <p>Date</p>		<p>PROJECT NO. _____</p> <p>PROJECT TITLE _____</p> <p>AS SHOWN</p> <p>DATE _____</p> <p>CONSTRUCTION OF OFFICERS MESSHALL, OLD CITY HALL, MARAWI CITY, LANAOS DEL SUR</p>	<p>DESIGNED BY _____</p> <p>DRIBELLO S. SANTILLAN Master (CCE) PA Chief, A.S.E. Branch</p>	<p>APPROVED BY _____</p> <p>JAY E. EDUARDO F. LIBOON Major (CE) PA Army Chief Engineer</p>	<p>SCALE: 1/8\"/> </p>
---	--	--	--	--	---------------------------

(Page 43/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

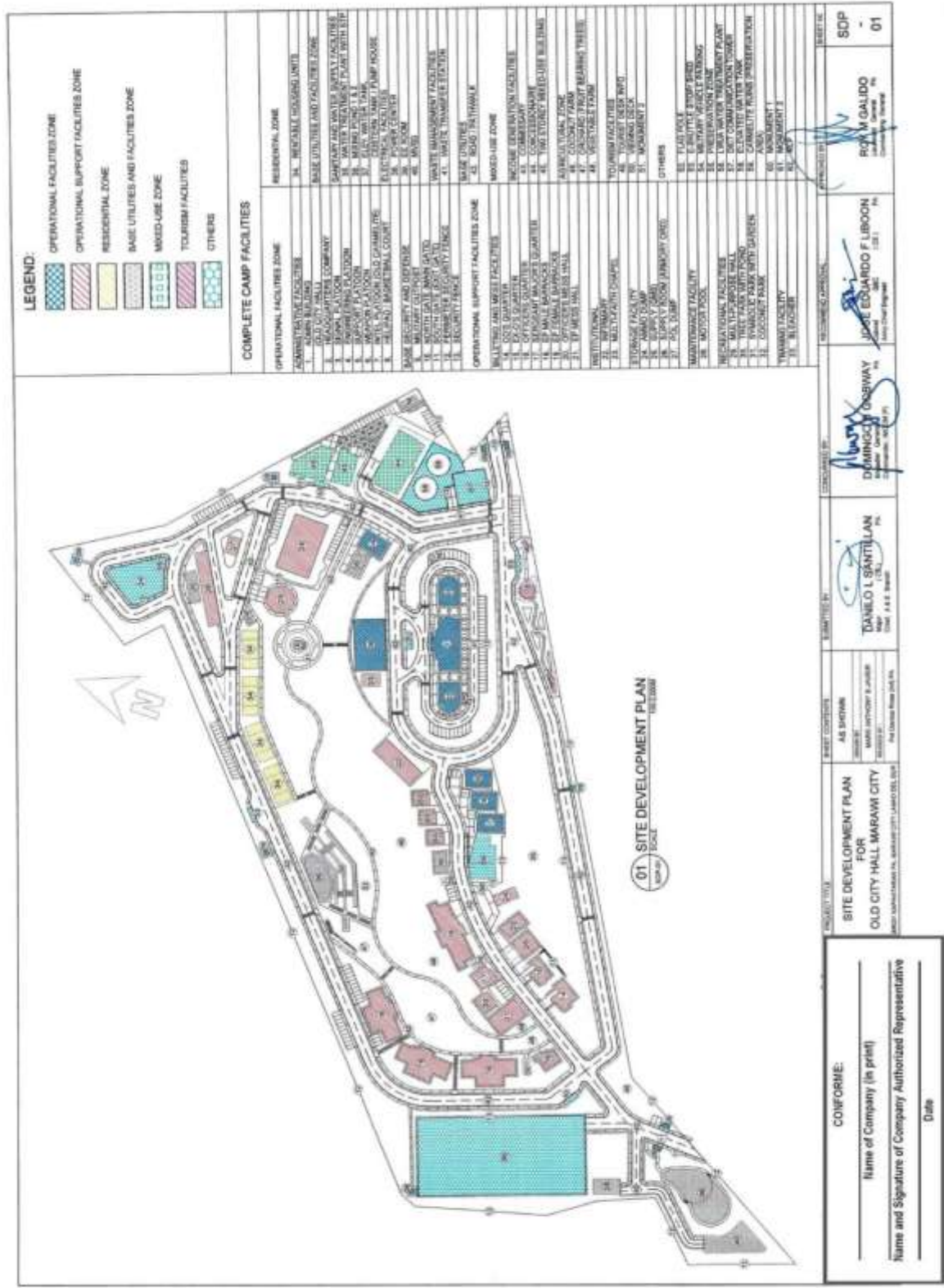


Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 45/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



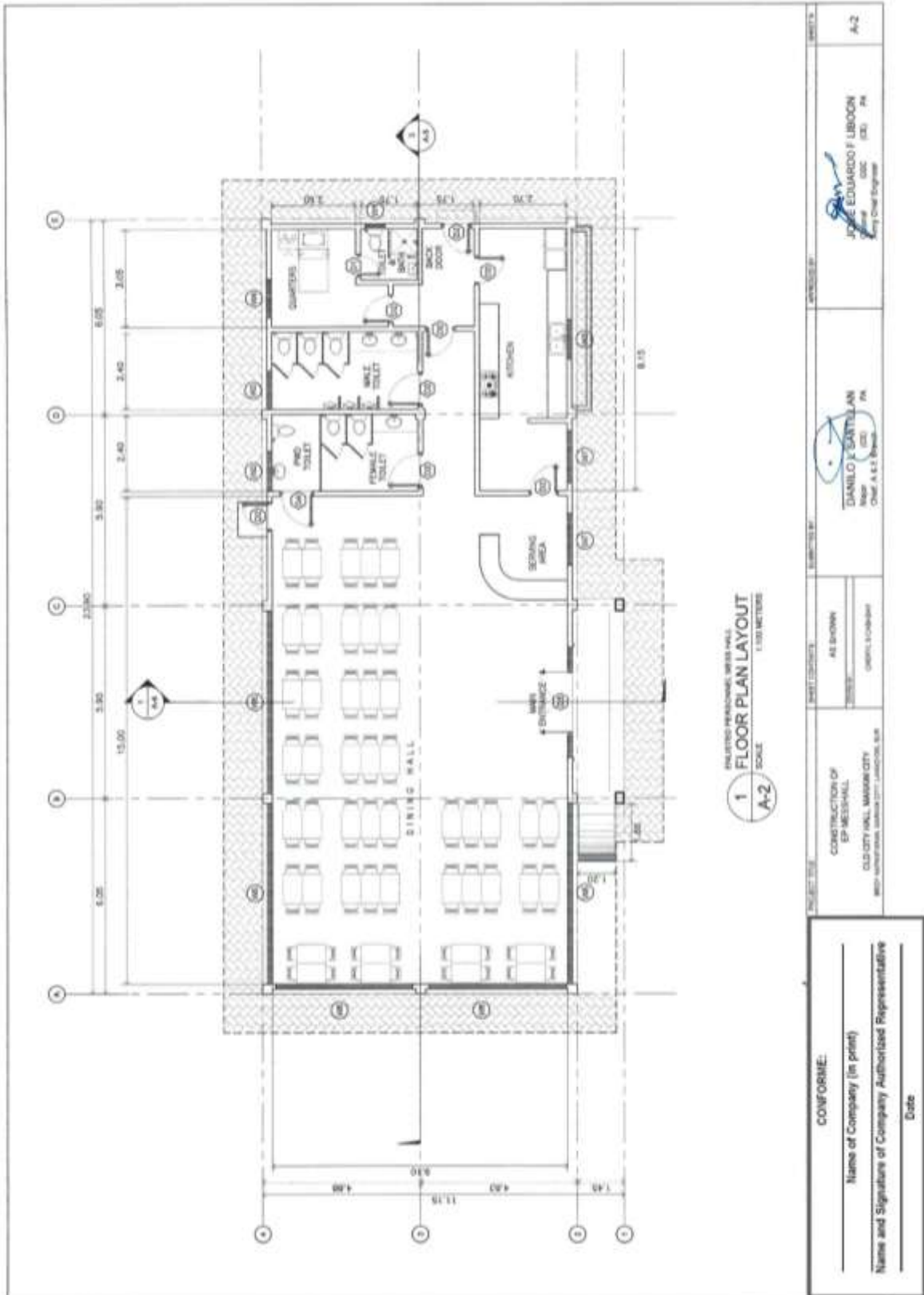
(Page 46/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

<p>PROJECT TITLE</p> <p>CONSTRUCTION OF EP MESSHALL OLD CITY HALL, MARAWI CITY, BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR</p>	<p>DESIGNED BY</p> <p>AS-SHOWN</p> <p>As Permitted by the Department of Public Works and Highways, Marawi City</p>	<p>APPROVED BY</p> <p>TORRILOIL SANTILLAN Member, Board of Engineers City of Marawi</p>	<p>DATE</p> <p>_____</p>
<p>CONFORME:</p> <p>Name of Company (in print) _____</p> <p>Name and Signature of Company Authorized Representative _____</p> <p>Date _____</p>	<p>DESIGNED BY</p> <p>DOMINGO GOBINAY Member, Board of Engineers City of Marawi</p>	<p>APPROVED BY</p> <p>JOSE EDUARDO F. LIBON Member, Board of Engineers City of Marawi</p>	<p>DATE</p> <p>_____</p>
<p>PROJECT TITLE</p> <p>CONSTRUCTION OF EP MESSHALL OLD CITY HALL, MARAWI CITY, BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR</p>	<p>DESIGNED BY</p> <p>AS-SHOWN</p> <p>As Permitted by the Department of Public Works and Highways, Marawi City</p>	<p>APPROVED BY</p> <p>TORRILOIL SANTILLAN Member, Board of Engineers City of Marawi</p>	<p>DATE</p> <p>_____</p>
<p>CONFORME:</p> <p>Name of Company (in print) _____</p> <p>Name and Signature of Company Authorized Representative _____</p> <p>Date _____</p>	<p>DESIGNED BY</p> <p>DOMINGO GOBINAY Member, Board of Engineers City of Marawi</p>	<p>APPROVED BY</p> <p>JOSE EDUARDO F. LIBON Member, Board of Engineers City of Marawi</p>	<p>DATE</p> <p>_____</p>

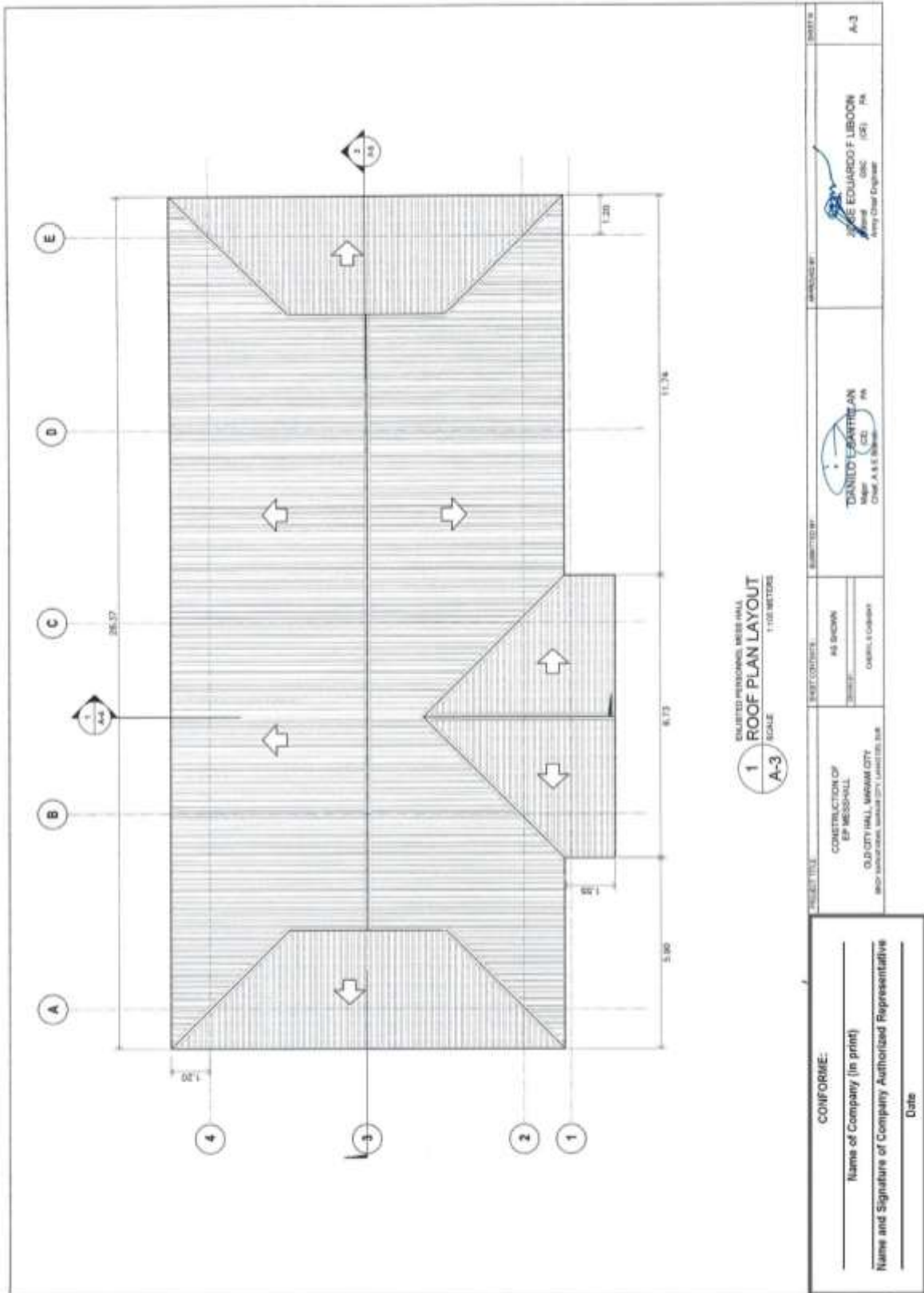
(Page 47/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



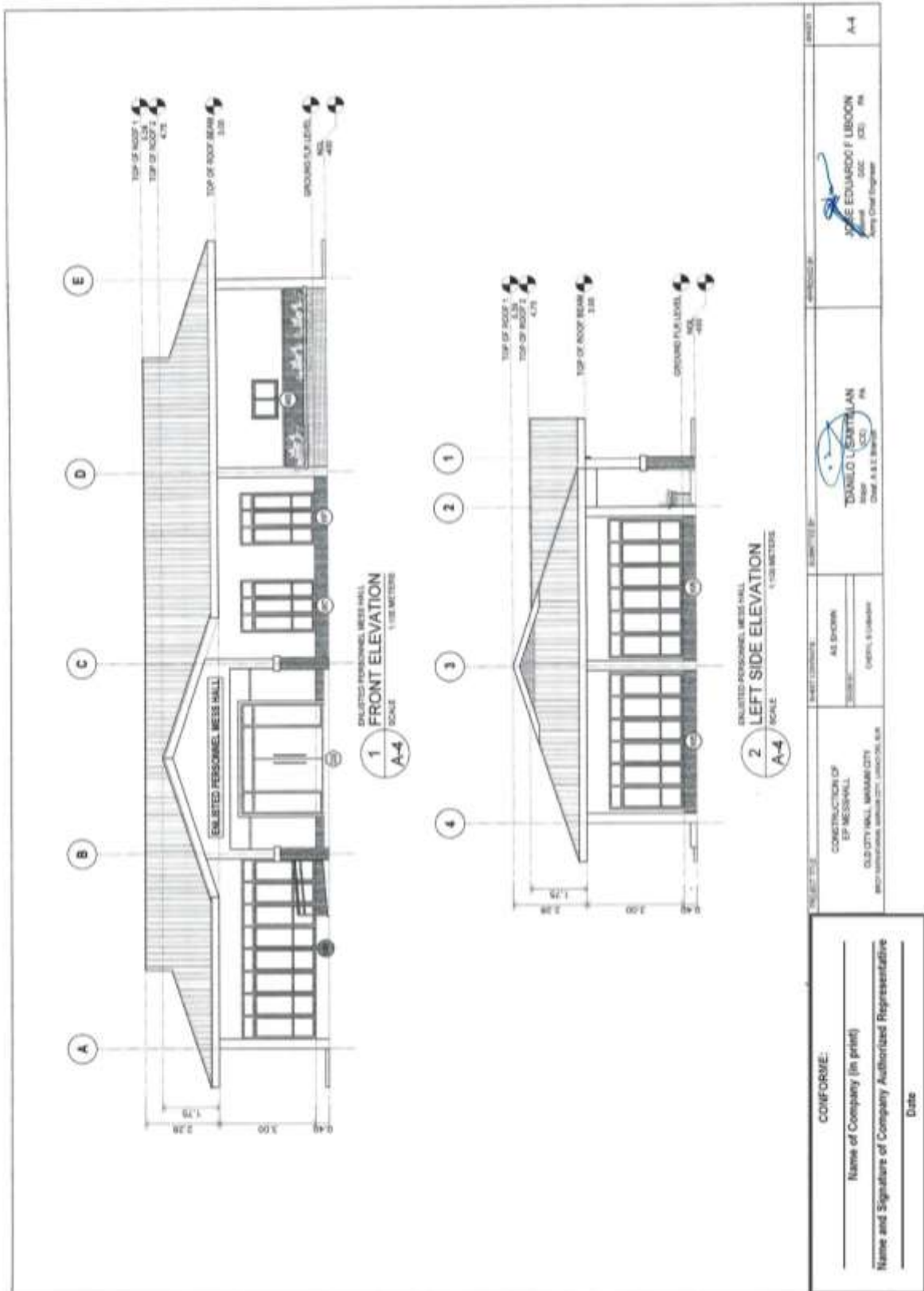
(Page 48/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



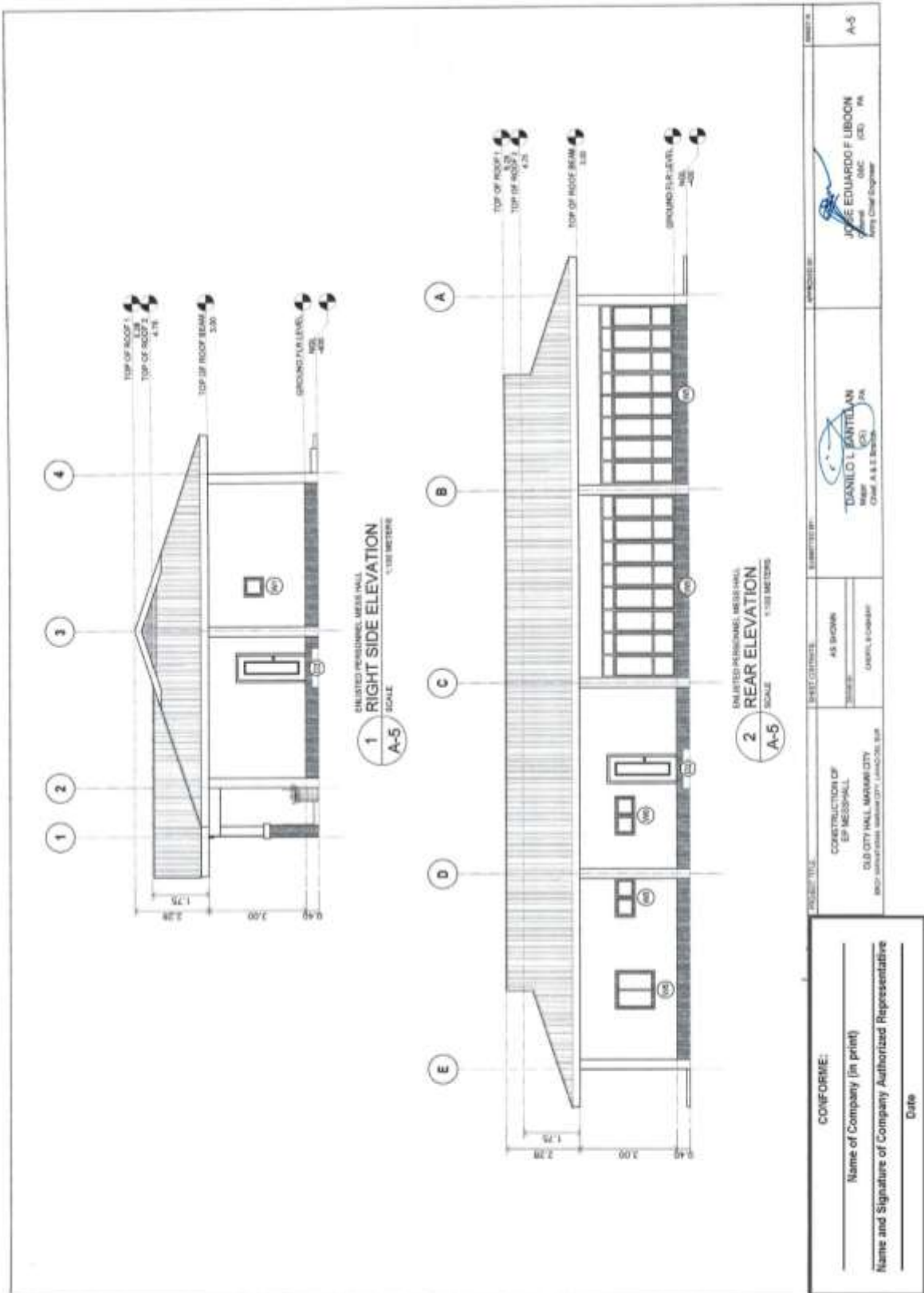
(Page 49/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



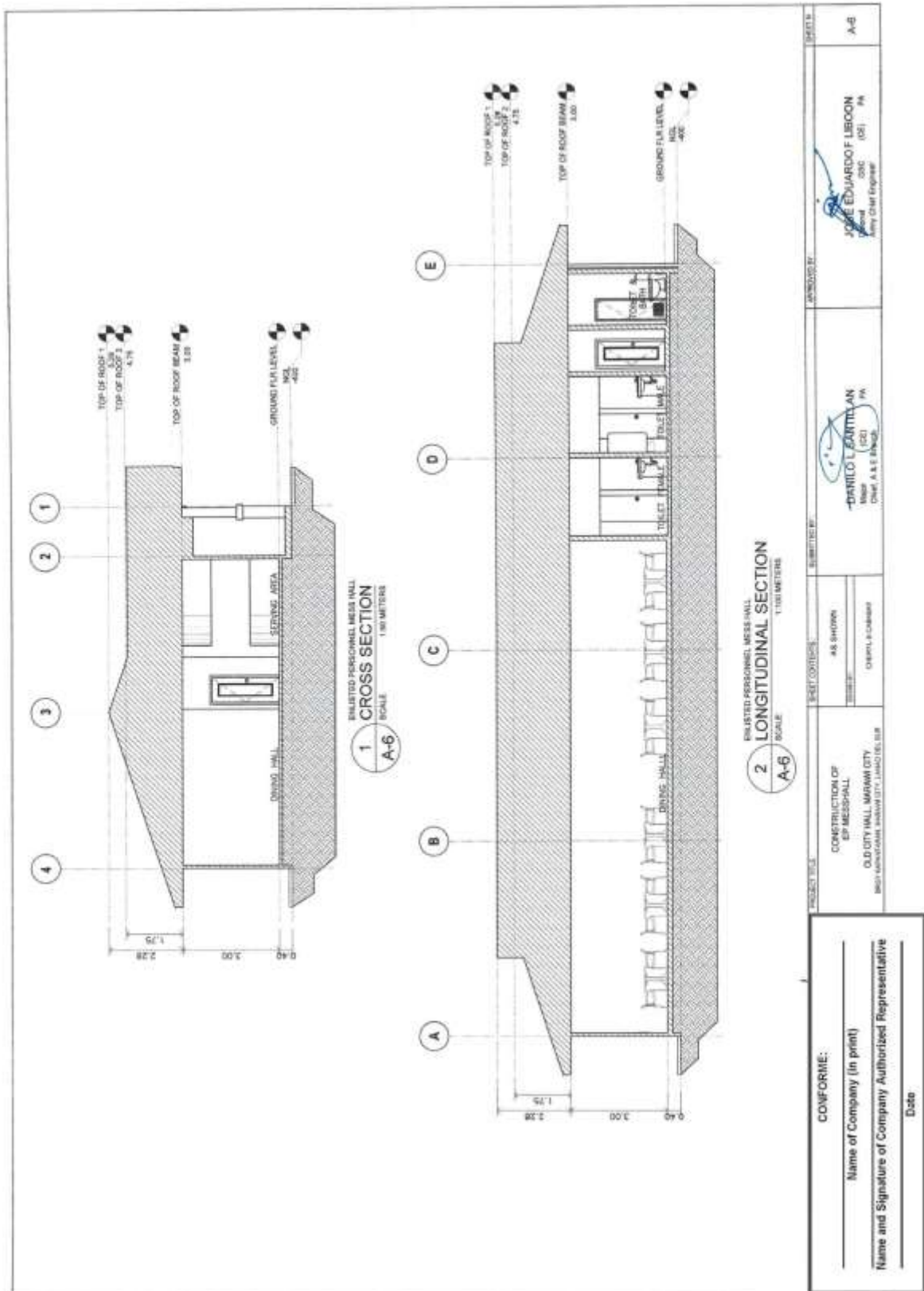
(Page 50/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



(Page 51/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 52/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

1 SCHEDULE OF DOORS
A-8
1:10 METERS

CONFORME: Name of Company (in print) Name and Signature of Company Authorized Representative Date	PROJECT TITLE: CONSTRUCTION OF OP MESS HALL OLD CITY HALL, MARAWI CITY Brgy. Kapantaran, Marawi City, Lanao Del Sur	SCALE: AS SHOWN DRAWN BY: CARMEN CHECKED BY: CARMEN	EMPLOYEE ID: DR. DIEGO L. SANTILLAN Major (CD) Chief, A & C Branch	DATE: JOSE EDUARDO F. LIBOON Major (CD) Army Chief Engineer	SHEET NO.: A-8
---	--	---	--	---	--------------------------

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAWINGS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LOADS, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI 318 AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (8TH EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- NO REFERS TO AMERICAN CONCRETE INSTITUTE, ALSO TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND AISC TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CHAIRS, SAILS, STOKES, EQUIPMENTS AND MECHANICAL DEVICES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF THIRTY (30) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWING:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF MAX. SLUMP AGGREGATE
ALL OTHERS, INCLUDING SUSPENDED SLABS	3000 PSI (20.70 MPa)	20mm
COLUMNS	3000 PSI (20.70 MPa)	20mm
BEAMS, SLABS	3000 PSI (20.70 MPa)	20mm
SLAB ON FILL	3000 PSI (20.70 MPa)	20mm

- MINIMUM MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE GRADE	20mm
WALLS BELOW GRADE	40mm
BASES FOR COLUMNS AND COLUMNS FEET	40mm
WHERE EXPOSED TO WEATHER	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75mm

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-THROWING OF PLACING SHALL BE DONE INSTANTLY WITH SHVELLS, RAKES OR HORRERS TO PREVENT SEGREGATION. PLACING SHALL BE CONTINUED TO PROCEED FROM HORRERS TO SHVELLS, RAKES OR HORRERS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED BY WRITING BY THE ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

NOTES ON FOOTINGS

- FOOTING SHALL REST AT LEAST 150mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE THIRTY (30) mm FOR CONCRETE EXPOSED TO THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

TYPICAL CONNECTION DETAIL OF MASONRY WALL

NOTES

- ALL MOVING BOLTS, DOMELS, AND OTHER DEVICES, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES

FOUNDATION	24 HRS.
SUSPENDED SLAB	14 DAYS
WALLS	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORES UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

CONFORME:

Name of Company (in print) _____

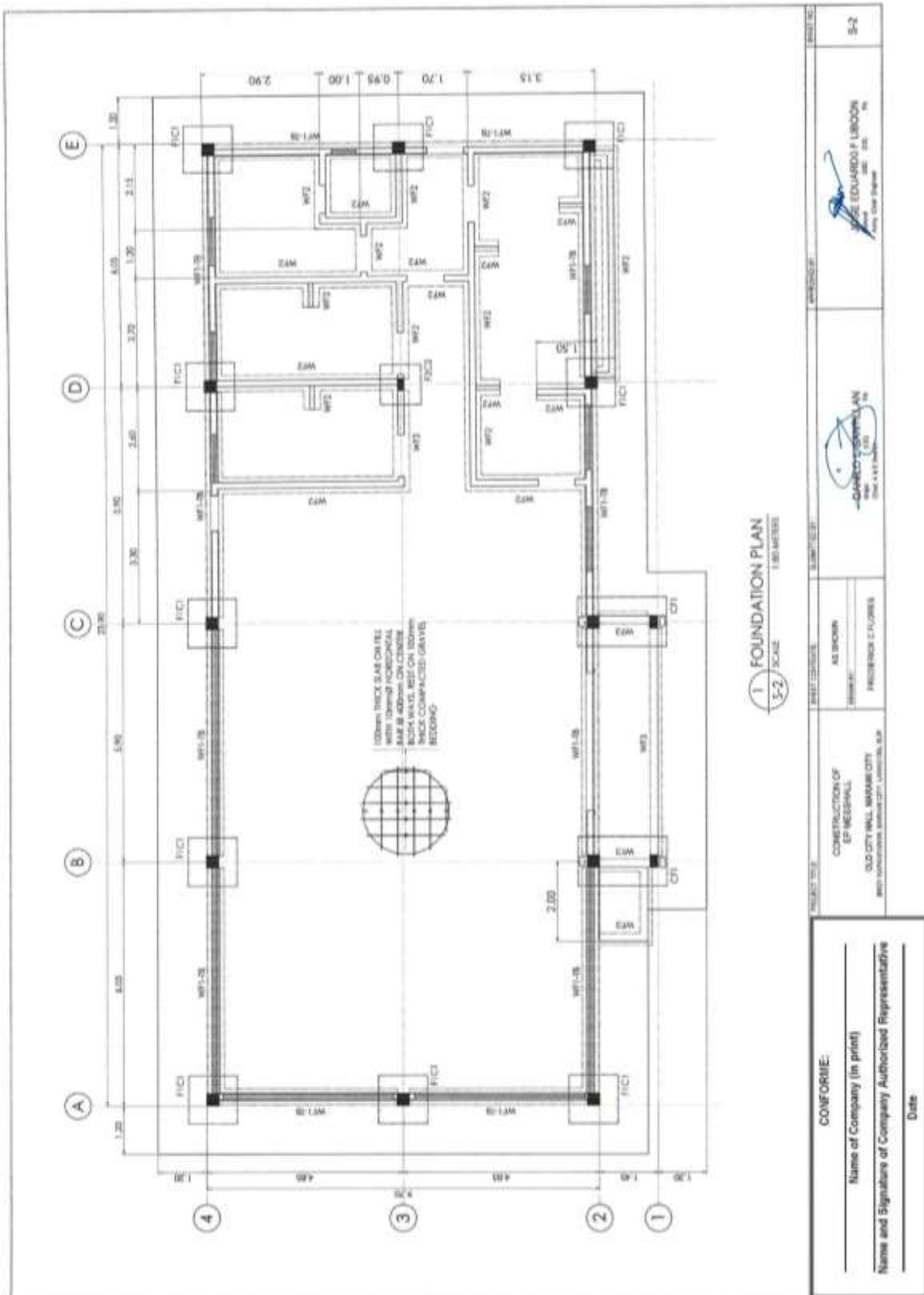
Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE CONSTRUCTION OF OP. FACILITIES OLD CITY HALL, MARAWI CITY Brgy. Kapantaran, Marawi City, Lanao Del Sur	SUBMITTER AS SHOWN PROJECT NO. C-100000000	DRAWN BY DANIEL S. SAMPALAN Date: 11/11/2016	SCALE S-1
--	--	--	--------------

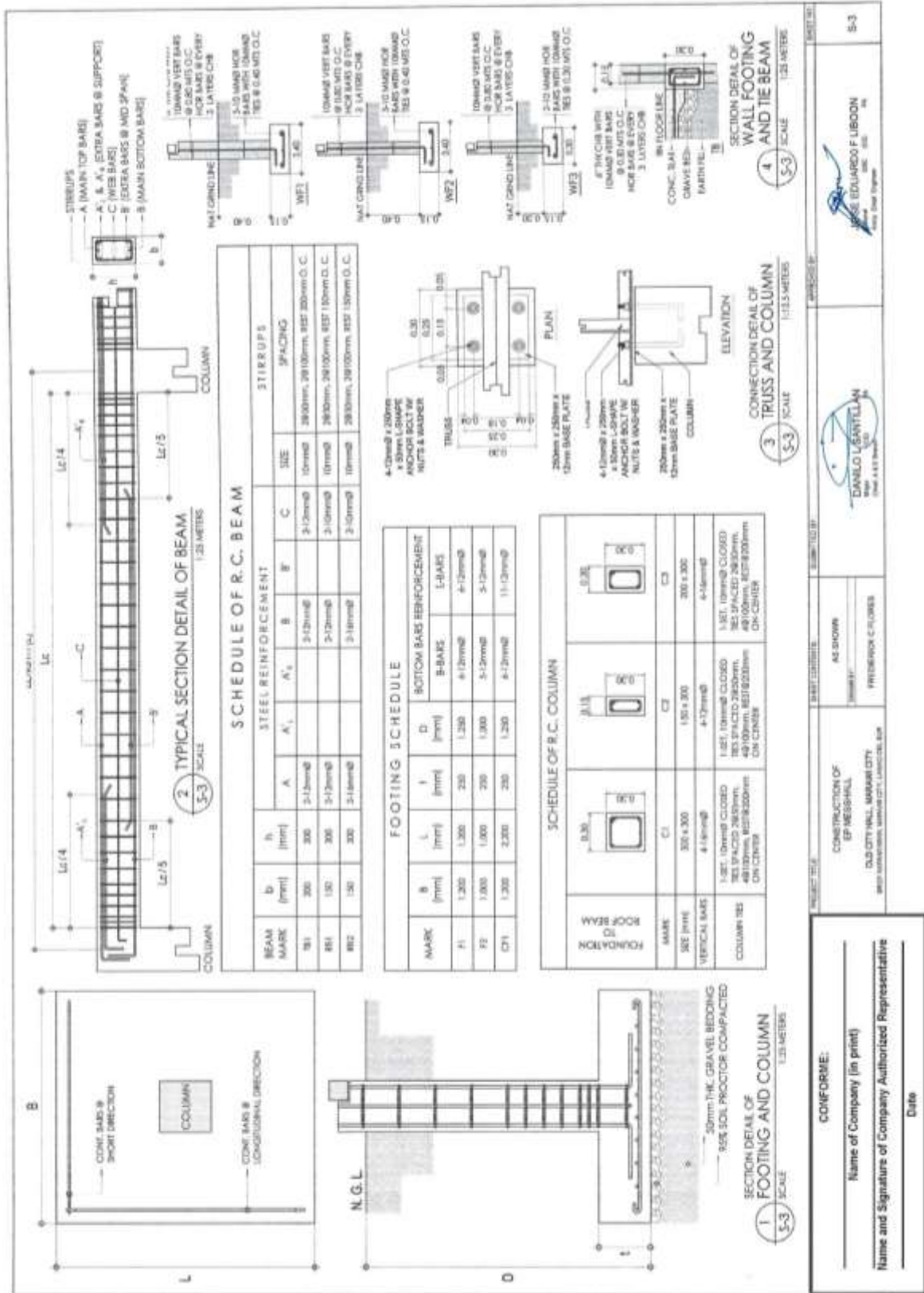
(Page 54/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 55/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



CONFORME:

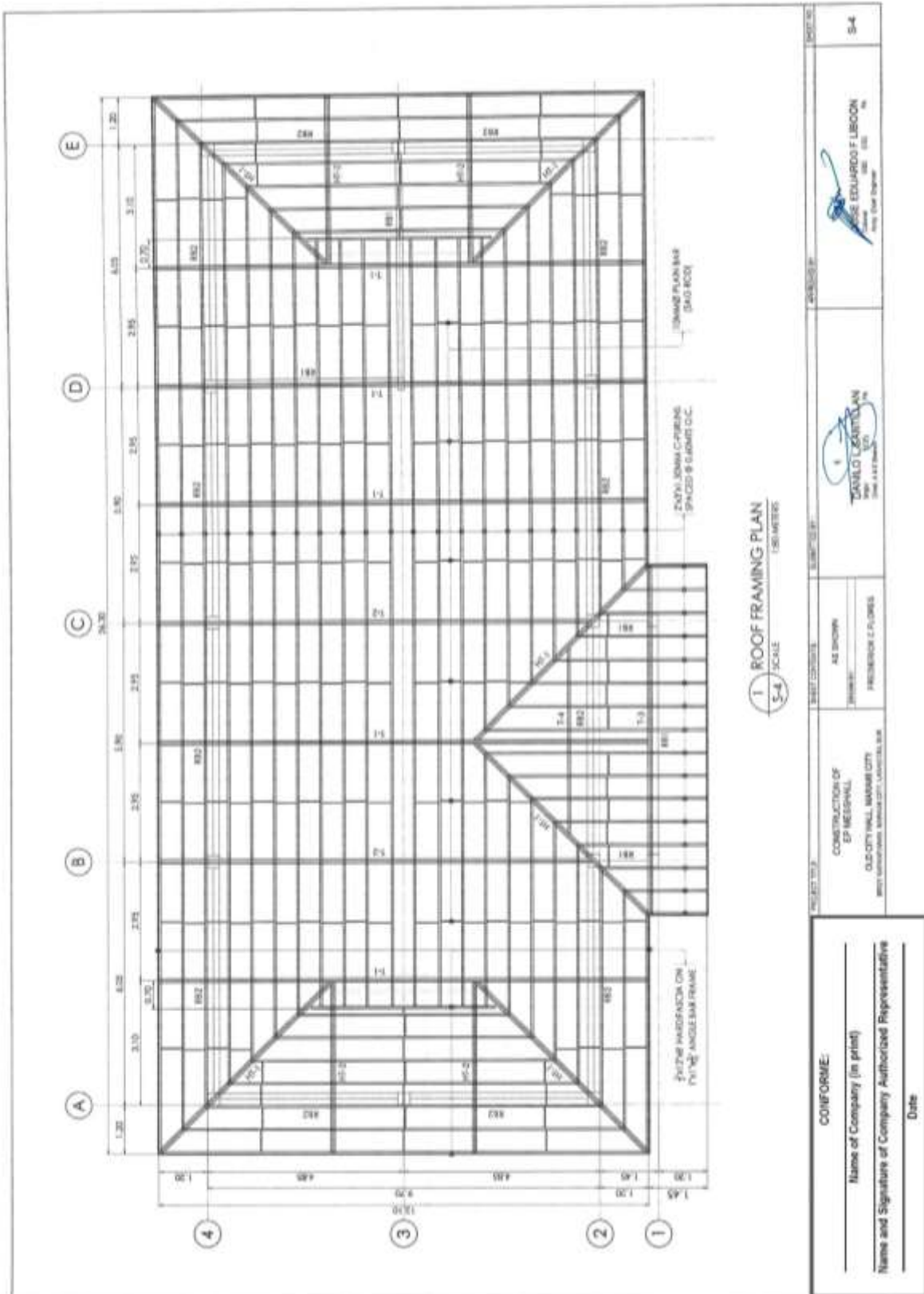
Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

(Page 56/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

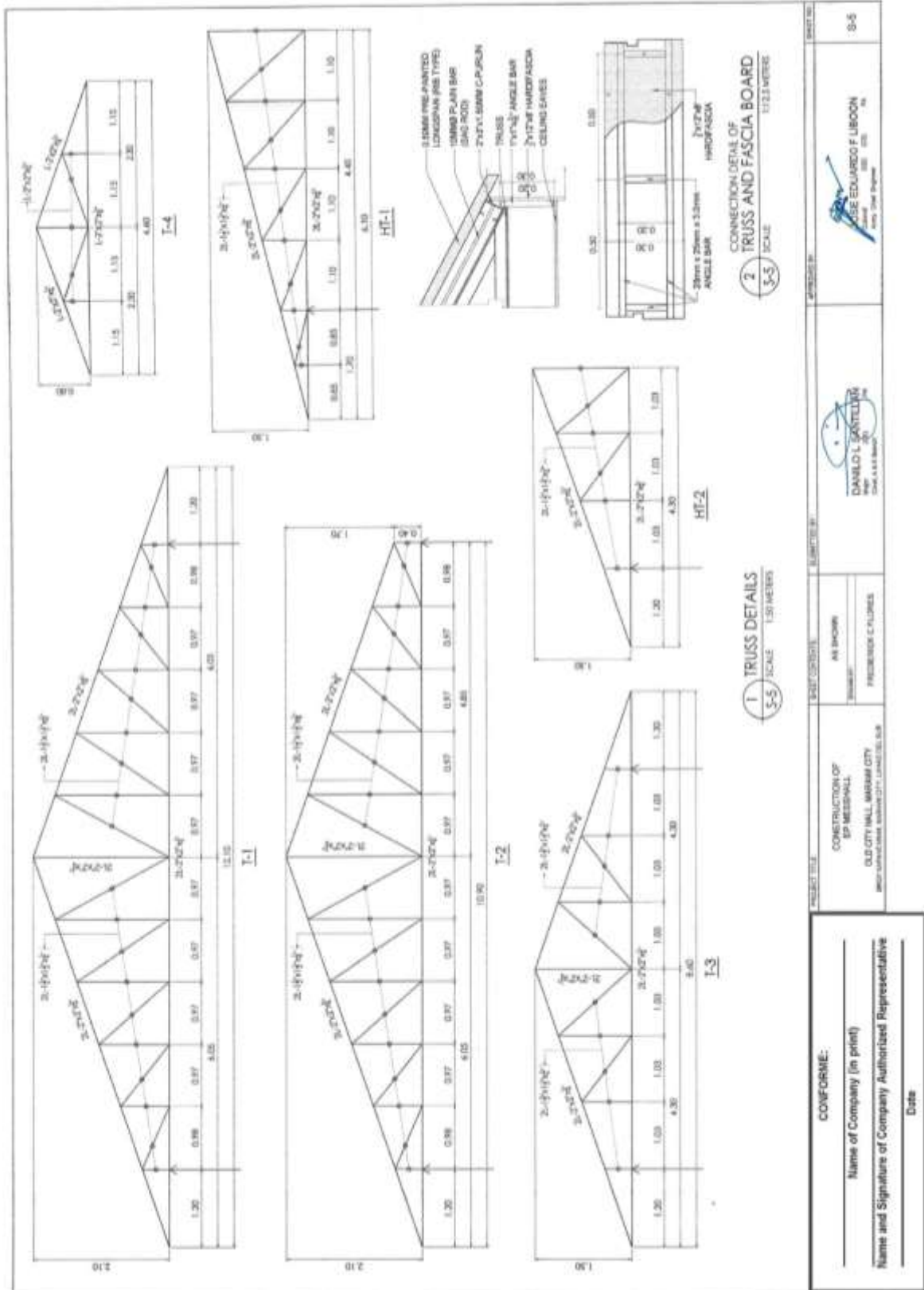


1 ROOF FRAMING PLAN
 SCALE: 5/8" = 1' (CENTIMETERS)

PROJECT NO.	CONTRACT NO.	DATE	REVISED
CONSTRUCTION OF EP MESSHALL OLD CITY HALL, MARAWI CITY BRGY. KAPANTARAN, MARAWI CITY, LANAOS DEL SUR	AS SHOWN	DATE	S-4
DRAWN BY: FRANCISCO F. FLORES		CHECKED BY: JOSE EDUARDO F. LEBRON Arch. Engr. (R.C.)	
DATE		DATE	
CONFORME: Name of Company (in print) Name and Signature of Company Authorized Representative Date		Signature of Engineer Date	

(Page 57/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



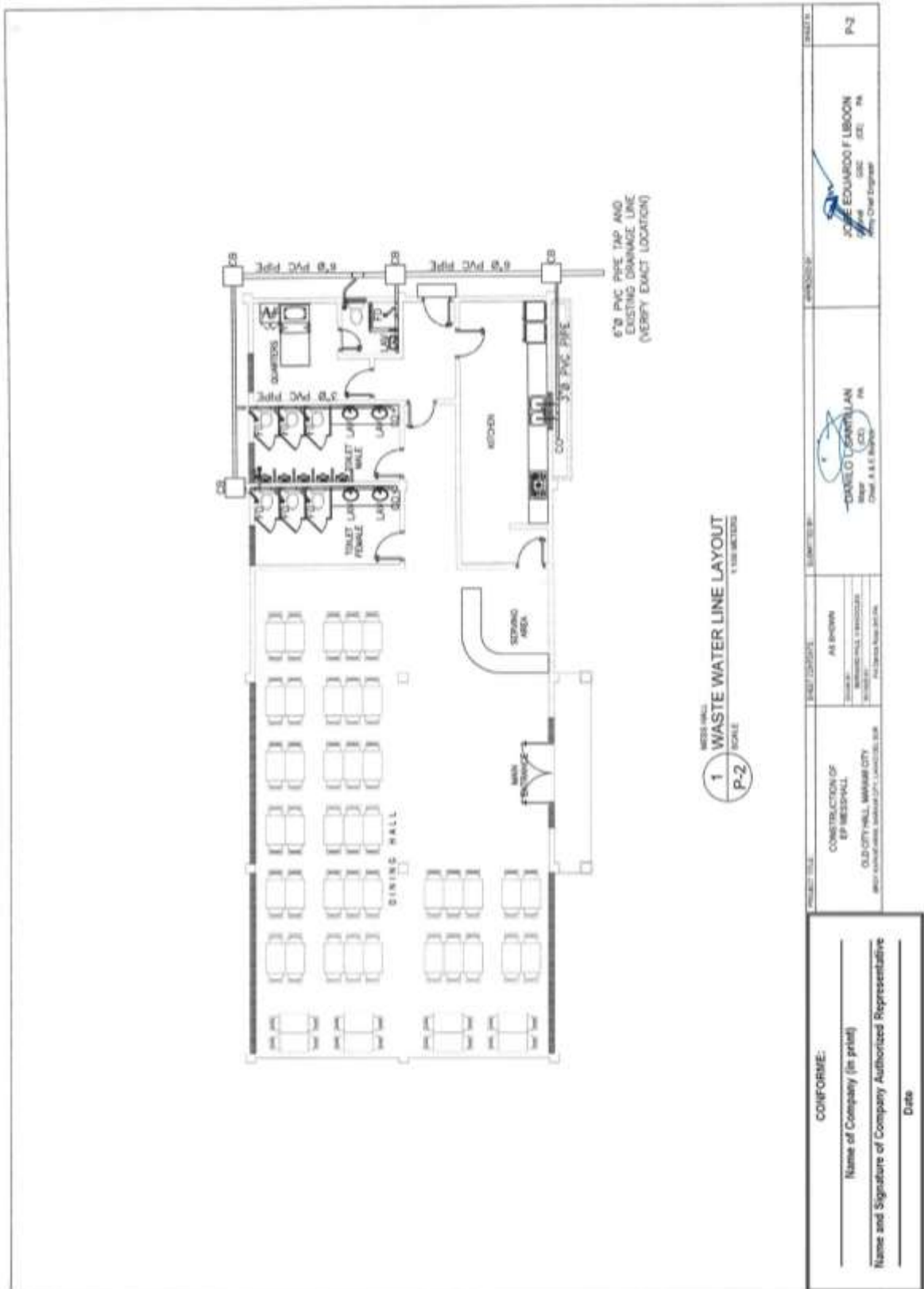
PROJECT TITLE CONSTRUCTION OF OPERATIONAL SUPPORT FACILITIES FOR OLD CITY HALL MARAWI CITY BID REF. NO. ENG'G PABAC3 017-24		DATE FORBIDIT MARCH 2024	SUBMITTER AR BROWN PROJECT MANAGER FREDERICK C. FLORIS	ENGINEER DANLO L. CASTELLANO DATE: 3.15.2024	PROJECT NO. S-5
CONFORME:		Name of Company (in print)		CASE EDUARDO F. LIBRON Civil Engineer EIT 020, 024	
Name and Signature of Company Authorized Representative		Date			

(Page 58/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

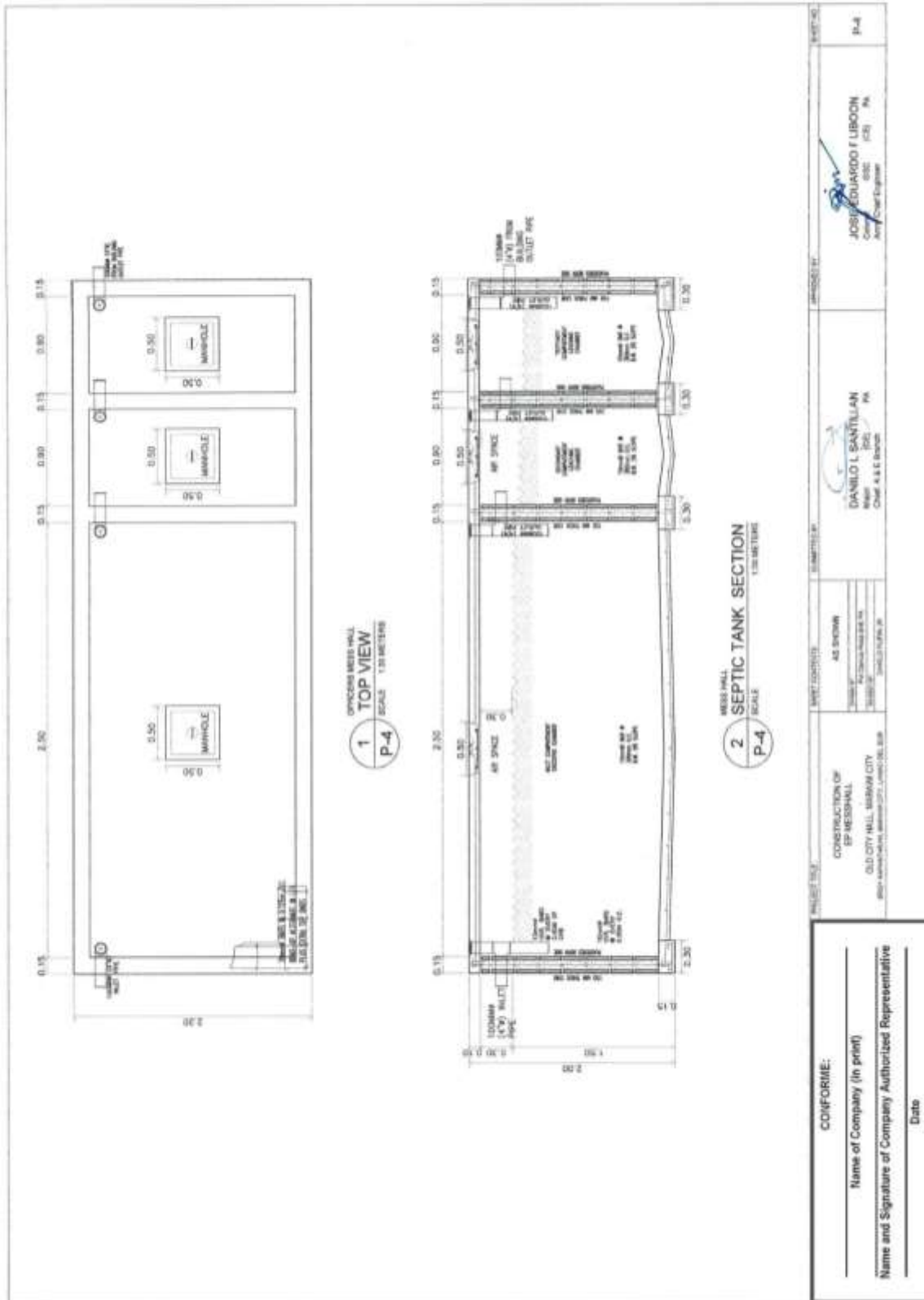


Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG'G PABAC3 017-24



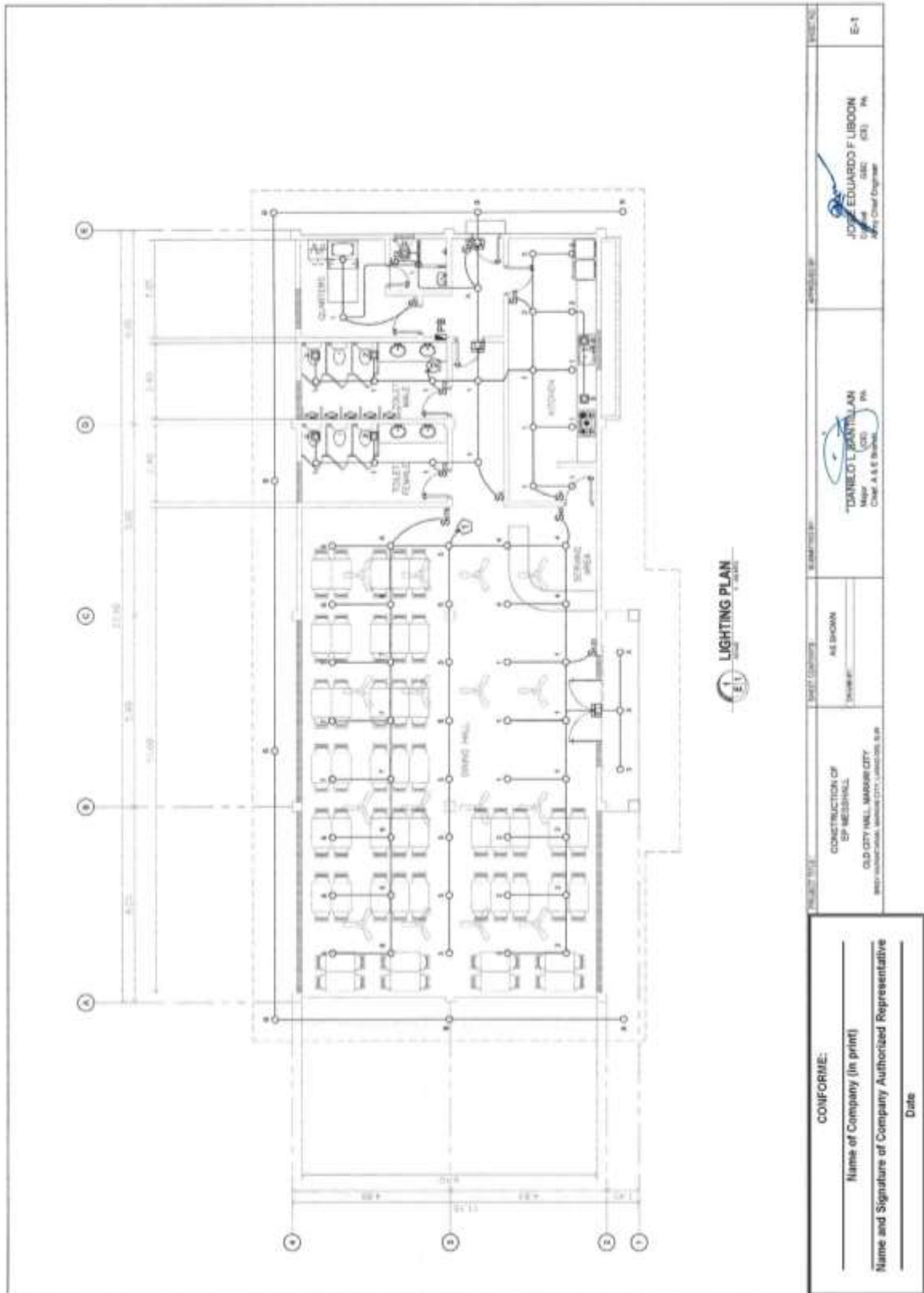
(Page 61/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



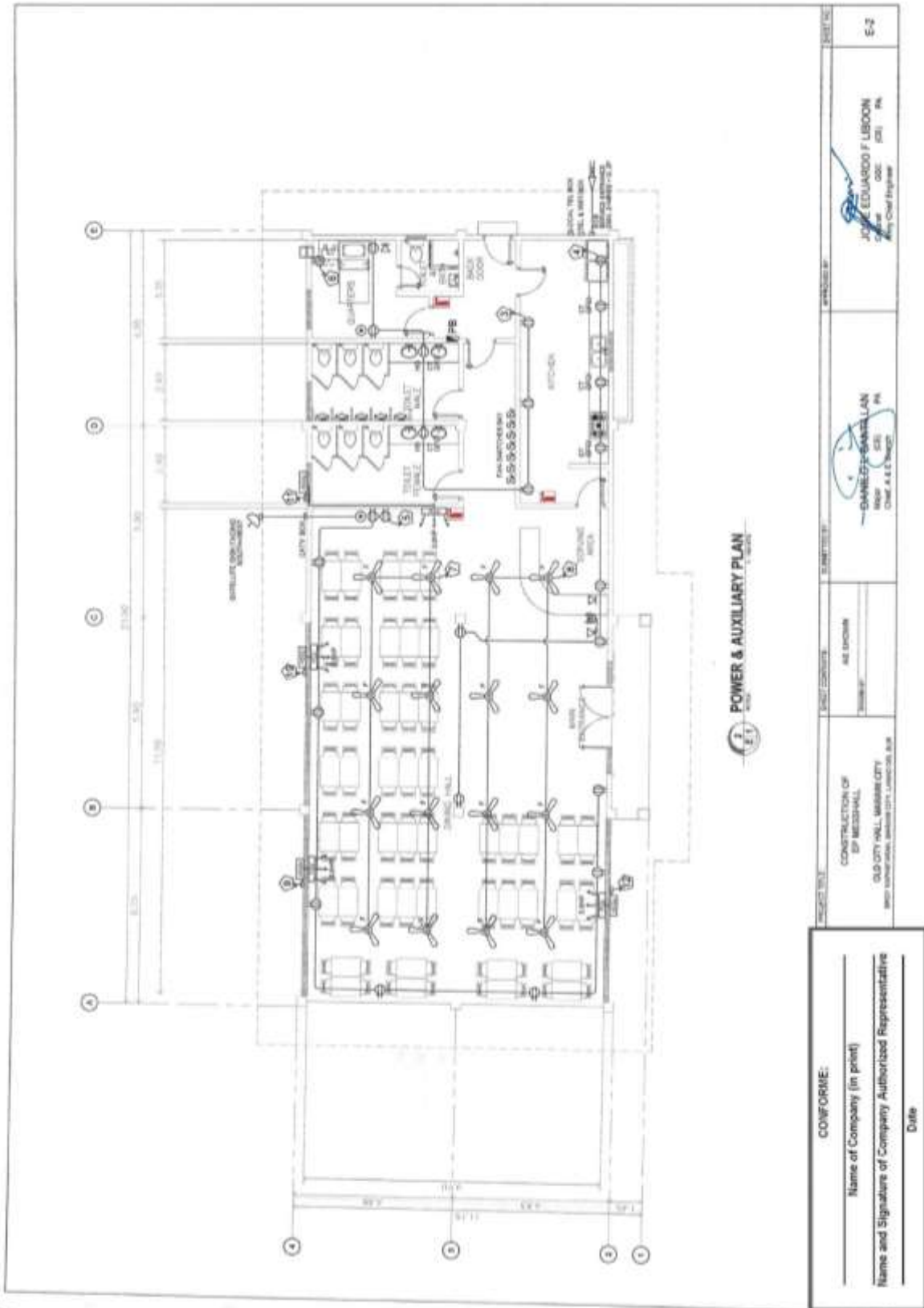
(Page 62/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 63/78)

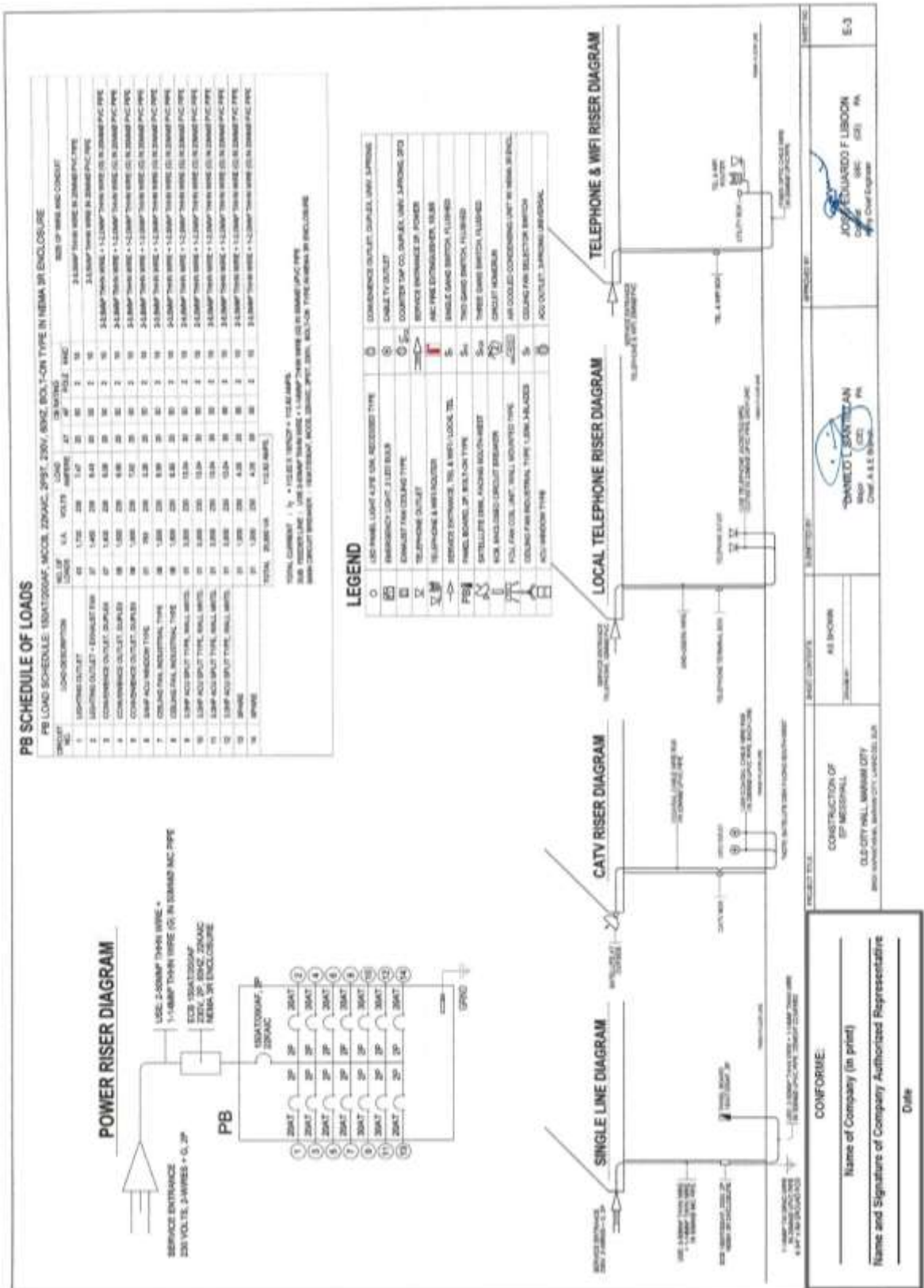
**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



PROJECT TITLE		SUBMITTER		DRAWN BY		CHECKED BY		DATE	
CONSTRUCTION OF EP MEDICAL HALL		ALL EXHIBITS		ALL EXHIBITS		ALL EXHIBITS		ALL EXHIBITS	
OLD CITY HALL, MARAWI CITY		MARAWI CITY		MARAWI CITY		MARAWI CITY		MARAWI CITY	
Name of Company (in print)		Name and Signature of Company Authorized Representative		Date		Name of Company (in print)		Name and Signature of Company Authorized Representative	
Name and Signature of Company Authorized Representative		Date		Name of Company (in print)		Name and Signature of Company Authorized Representative		Date	

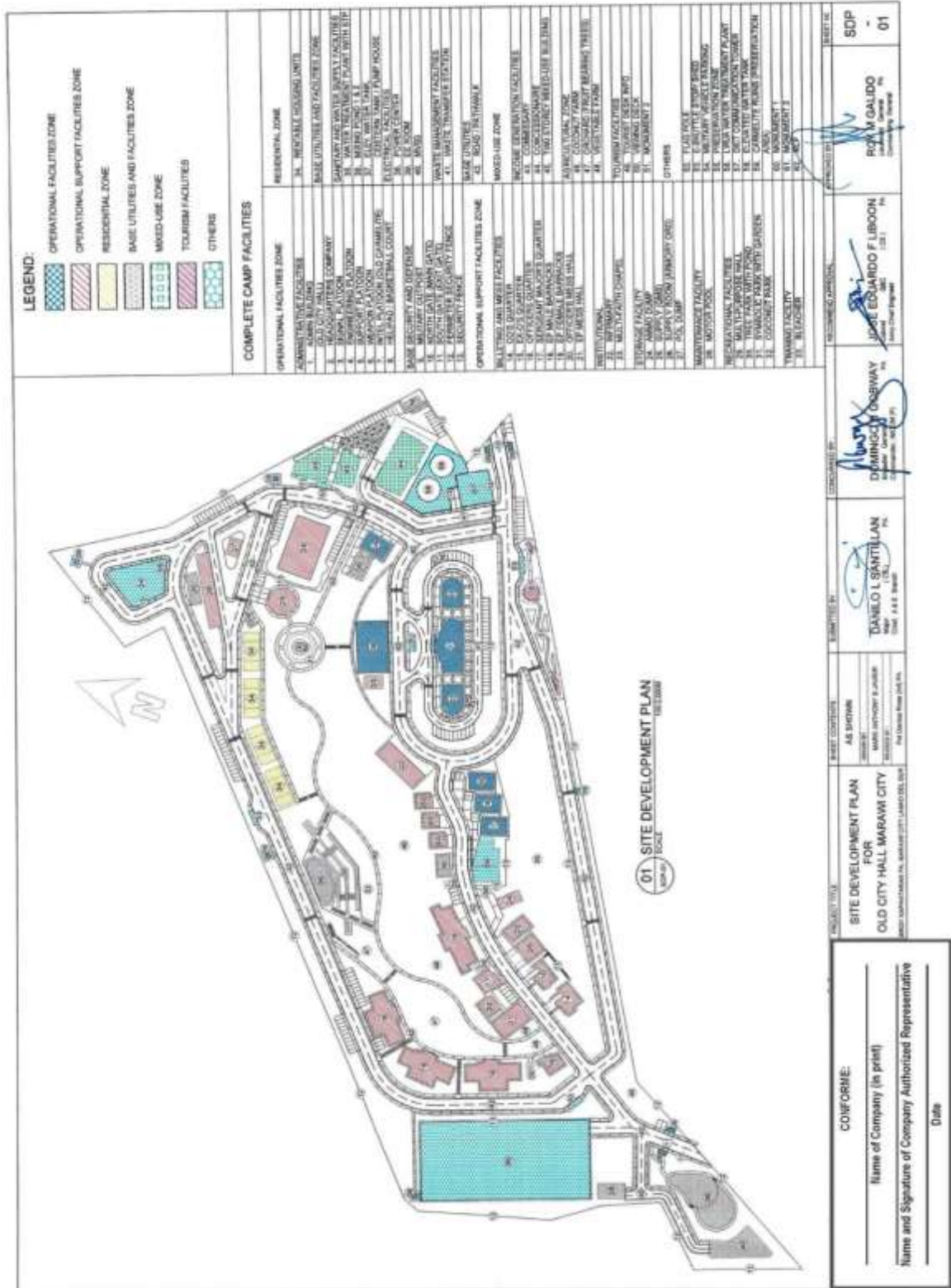
(Page 64/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 65/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



(Page 66/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**

The architectural drawing set includes the following components:

- 1 PERSPECTIVE:** A 3D rendering of a modern building with a green roof and white columns, situated on a landscaped site with trees and a blue sky.
- 2 VICINITY MAP:** A map showing the project location within a larger area, with a north arrow and a scale of 1:1000.
- 3 LOCATION MAP:** A detailed site plan showing the building footprint, parking areas, and surrounding infrastructure, with a north arrow and a scale of 1:500.
- 4 SITE LOCATION PLAN:** A plan showing the building's placement on a specific lot, with a north arrow and a scale of 1:200.

COMFORME:

Name of Company (in print) _____

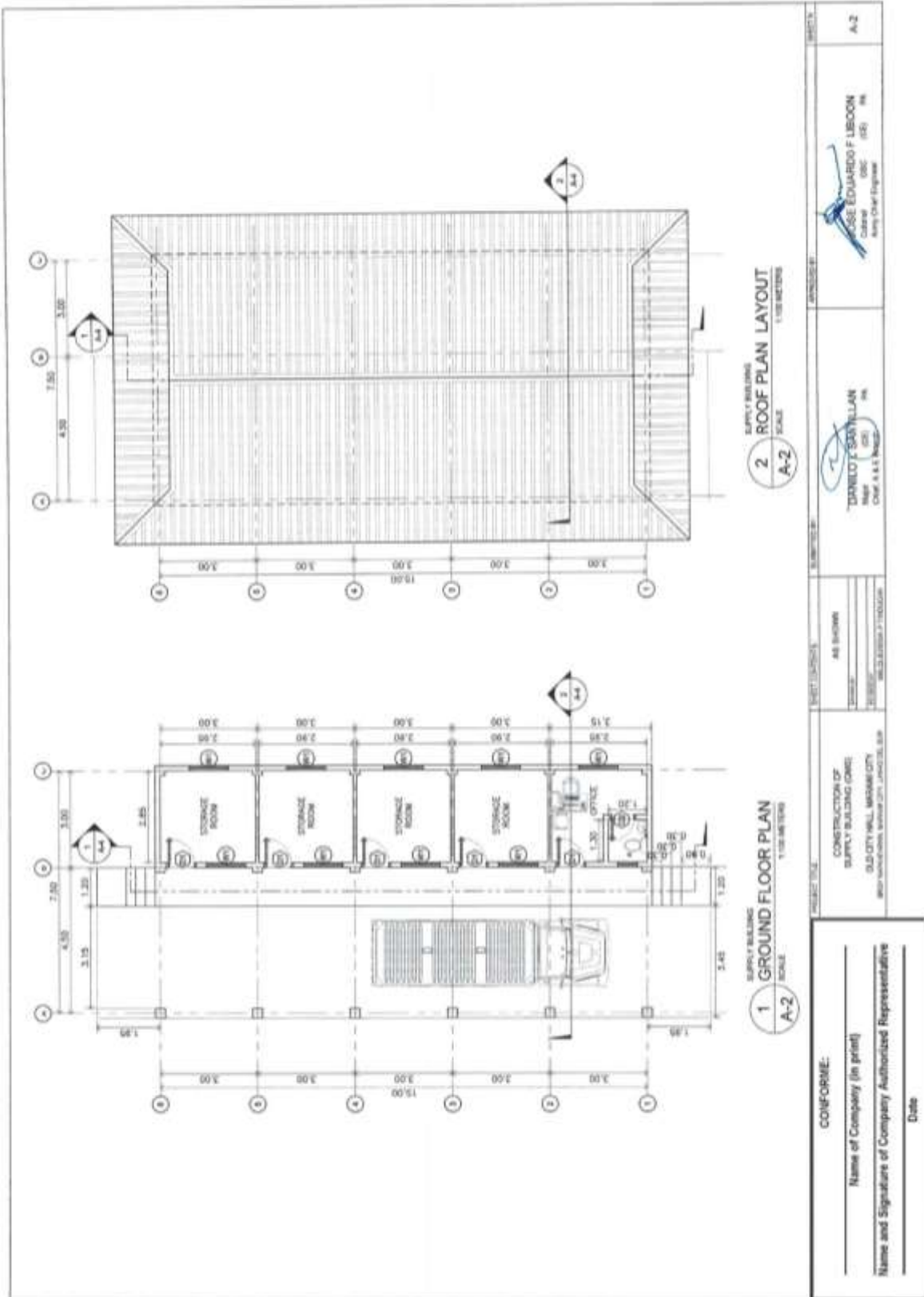
Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE	CONSTRUCTION OF SUPPLY BUILDING (CMS) OLD CITY HALL, MARAWI CITY (BID REF. NO. ENG'G PABAC3 017-24)	DATE	_____
SCALE	AS SHOWN	PROJECT NO.	A-01
DESIGNED BY	DANIEL T. BUSTILLAN (P.E.)	CHECKED BY	ROD'AM GALDO (P.E.)
DRAWN BY	DANIEL T. BUSTILLAN (P.E.)	APPROVED BY	EDUARDO F. LIBRON (P.E.)
DATE	_____	DATE	_____

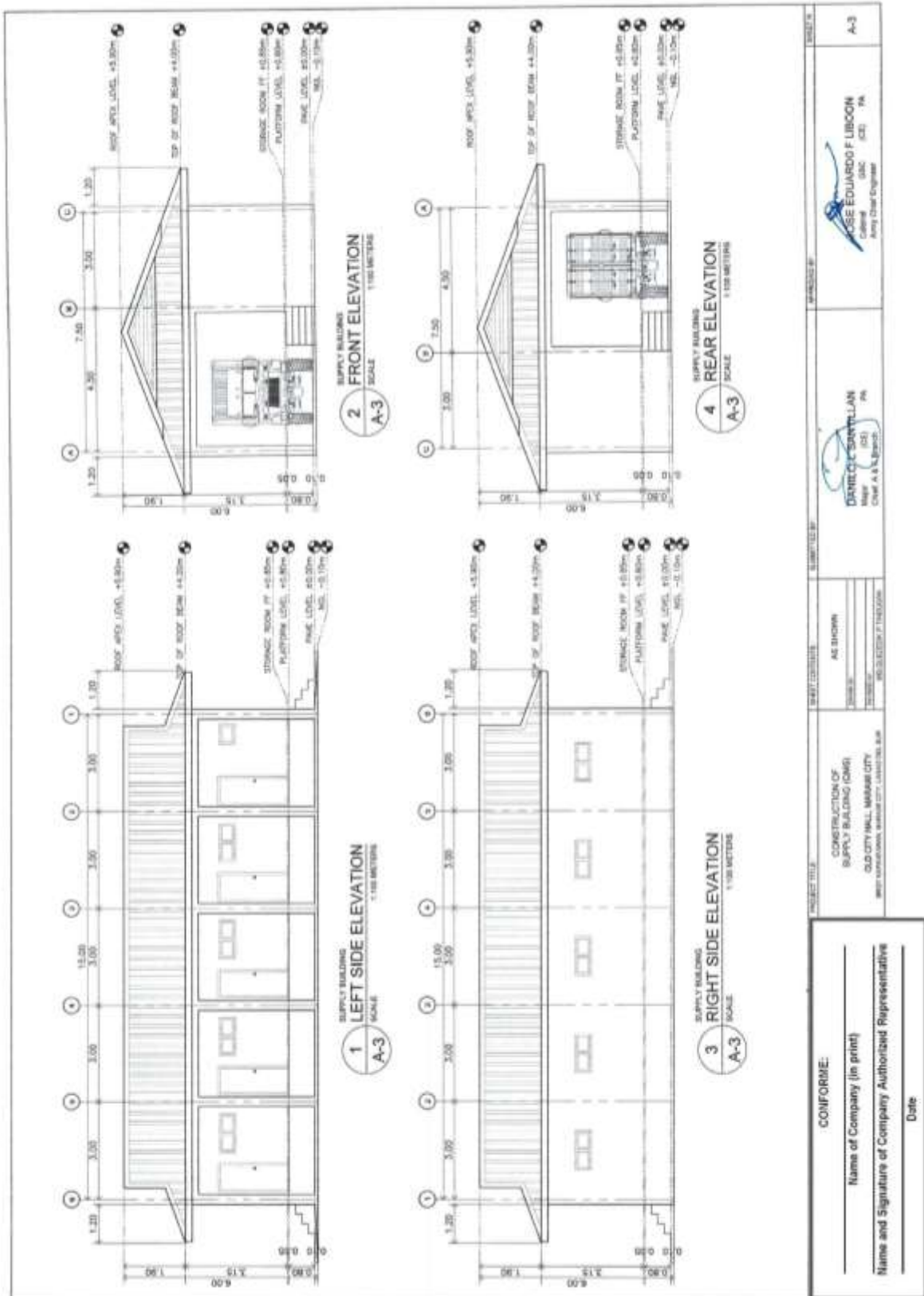
(Page 67/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



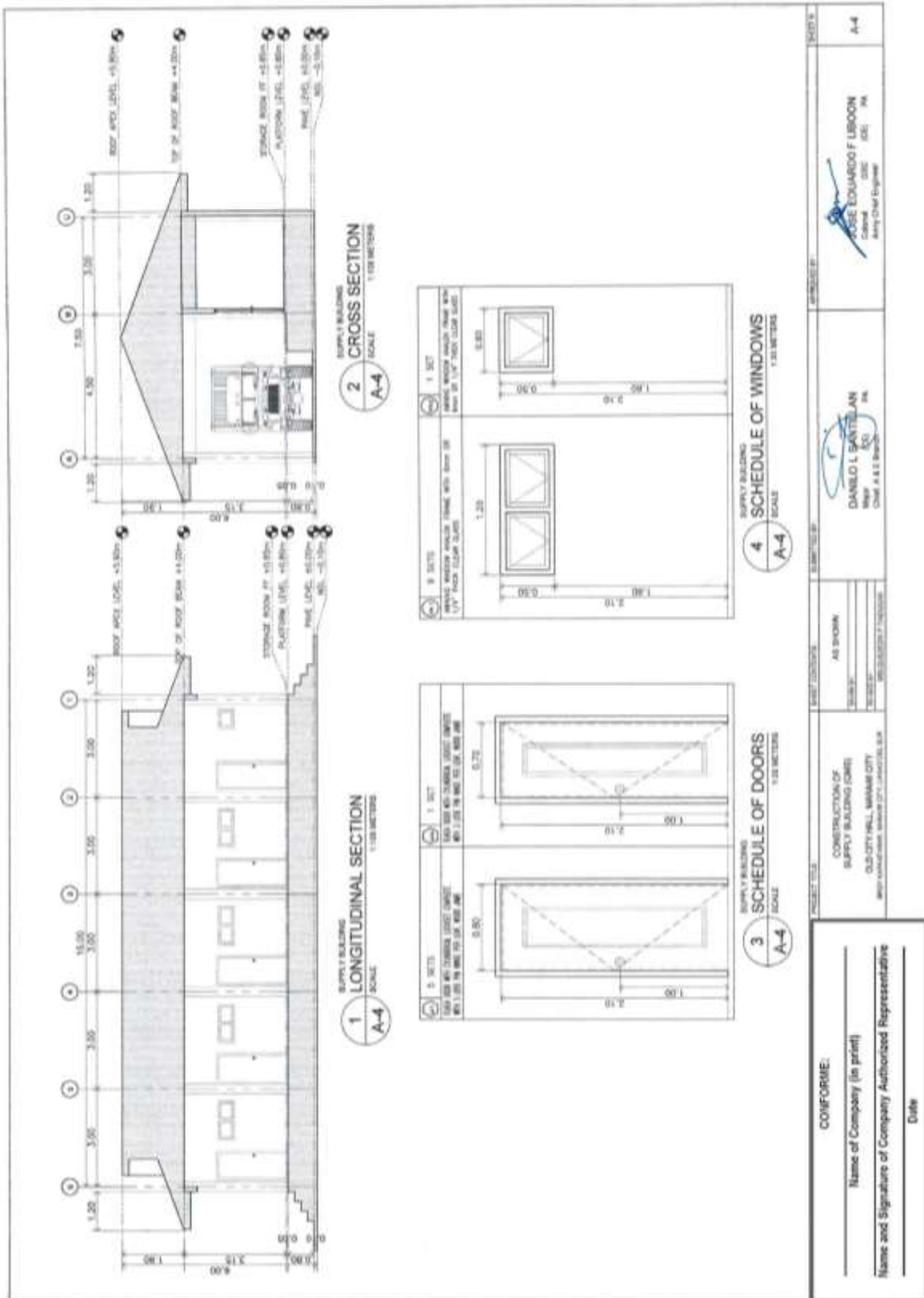
(Page 68/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 69/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 70/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND LABEL, INTERIOR PARTITION, LOCATION OF DRAINS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318 "BC" BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE AISC 360-10 STEEL CONSTRUCTION MANUAL, PART 13, SECTION 13.01. THE CONTRACTOR SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, ASTM TO AMERICAN INSTITUTE OF STEEL, CONSTRUCTION AND STEEL TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. WORKY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH DETAIL AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CHAIRS, BULLS, BODOL, EQUIPMENTS AND MECHANICAL BRIGES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL ENGINEER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS BY CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF MAX. SLUMP AGGREGATE
ALL OTHERS, INCLUDING SUSPENDED SLABS,	3000 PSI (20.70 MPa)	25mm
COLUMNS	3000 PSI (20.70 MPa)	25mm
BEAMS, SLABS	3000 PSI (20.70 MPa)	25mm
SLAB ON FILL	3000 PSI (20.70 MPa)	35mm

- MAXIMUM MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	25mm
SLAB ON GRADE	40mm
WALLS GRADE GRADE	40mm
BOTTOM CORNERS AND COLUMNS TCS	25mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	40mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	50mm
	75mm

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. BE-HARD LING OR PLACING SHALL BE DONE PREFERABLY WITH SLOGGERS, BUCKETS OR WHEELBARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSPORT CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE ENGINEERS AND ONLY FOR SPECIAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

TYPICAL CONNECTION DETAIL OF MASONRY WALL

The diagrams illustrate various wall connections:

- TYPICAL CONNECTION DETAIL OF MASONRY WALL:** Shows a cross-section of a masonry wall with a 12 THK EXPANSION JOINT WITH MASTIC FILLER. It includes details for a 400(MIN) DOVEL and 1-#12 VERT. BARS.
- CORNER WALL:** Shows a corner detail with 1-#12 VERT. BARS WITH MASTIC FILLER and 400(MIN) DOVEL.
- INTERSECTION WALL:** Shows an intersection detail with 1-#12 VERT. BARS WITH MASTIC FILLER and 400(MIN) DOVEL.
- OPENING OR END WALL:** Shows a detail for an opening or end wall with 1-#12 VERT. BARS WITH MASTIC FILLER and 400(MIN) DOVEL.
- SECTION:** Shows a cross-section of a lintel beam at a CHB wall opening. It includes a 200 (MIN) CHB WALL, 1-#12 VERT. BARS TYPICAL, and 2-#12 TOP BARS. It also shows a 400(MIN) DOVEL and 1-#12 VERT. BARS.

NOTES ON FOOTINGS

- FOOTING SHALL REST AT LEAST 150mm BELOW FINISH GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE THREE CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

The diagram shows a cross-section of a lintel beam over a CHB wall opening. It includes a 200 (MIN) CHB WALL, 1-#12 VERT. BARS TYPICAL, and 2-#12 TOP BARS. It also shows a 400(MIN) DOVEL and 1-#12 VERT. BARS. The total height of the beam is 200 (MIN).

CONFORME:

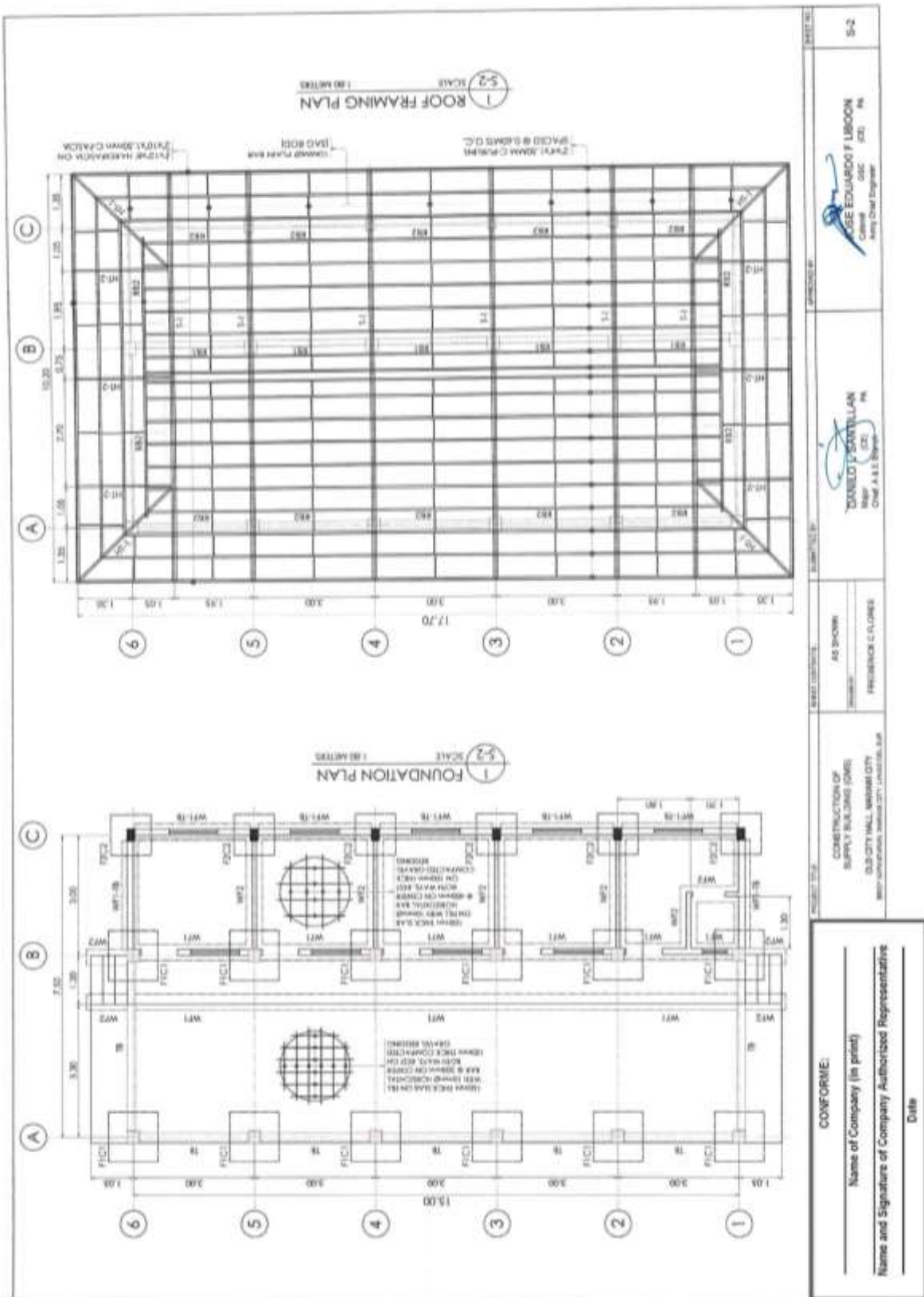
Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE	CONSTRUCTION OF SUPPLY BUILDING (MGS)	SHEET NO.	5-1
PROJECT LOCATION	AT SHOWN	DRAWN BY	DANIELO C. GANTILAN
DESIGNED BY	FREDERICK E. FLORES	CHECKED BY	ESSE EDUARDO F. LIBROON
APPROVED BY		SCALE	AS SHOWN

(Page 71/78)
Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 72/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
 Bid Ref. No. ENG'G PABAC3 017-24

2 TYPICAL SECTION DETAIL OF BEAM
 SCALE: 5-3
 1:25 METERS

SCHEDULE OF R.C. BEAM

BEAM MARK	d (mm)	h (mm)	STEEL REINFORCEMENT			STIRRUPS		
			A	A'	B	C	SIZE	SPACING
TB1	300	300	3-12mmØ		3-12mmØ		10mmØ	280mm, 28-100mm, REST 200mm O.C.
BB1	150	300	3-12mmØ		3-12mmØ		10mmØ	280mm, 28-100mm, REST 200mm O.C.
BB2	300	300	3-12mmØ		3-12mmØ		10mmØ	280mm, 28-100mm, REST 200mm O.C.

FOOTING SCHEDULE

MARK	B (mm)	L (mm)	F (mm)	D (mm)	STEEL REINFORCEMENT
F1	1,000	1,300	300	1,300	6-12mmØ
F2	1,000	1,000	200	1,300	4-12mmØ

SCHEDULE OF R.C. COLUMN

MARK	SIZE (mm)	REINFORCEMENT
FOUNDATION TO ROOF BEAM		
BASE	300 x 300	4-12mmØ
VERTICAL BEAM	300 x 300	4-12mmØ
COLUMN TIE		1-Ø12, 15mmØ CLOSD, REST SPACED 280mm, 48-100mm, REST 200mm ON-CENTER

SECTION DETAIL OF FOOTING AND COLUMN
 SCALE: 5-3
 1:25 METERS

SECTION DETAIL OF WALL FOOTING AND TIE BEAM
 SCALE: 5-3
 1:25 METERS

CONFORME:
 Name of Company (in print)
 Name and Signature of Company Authorized Representative
 Date

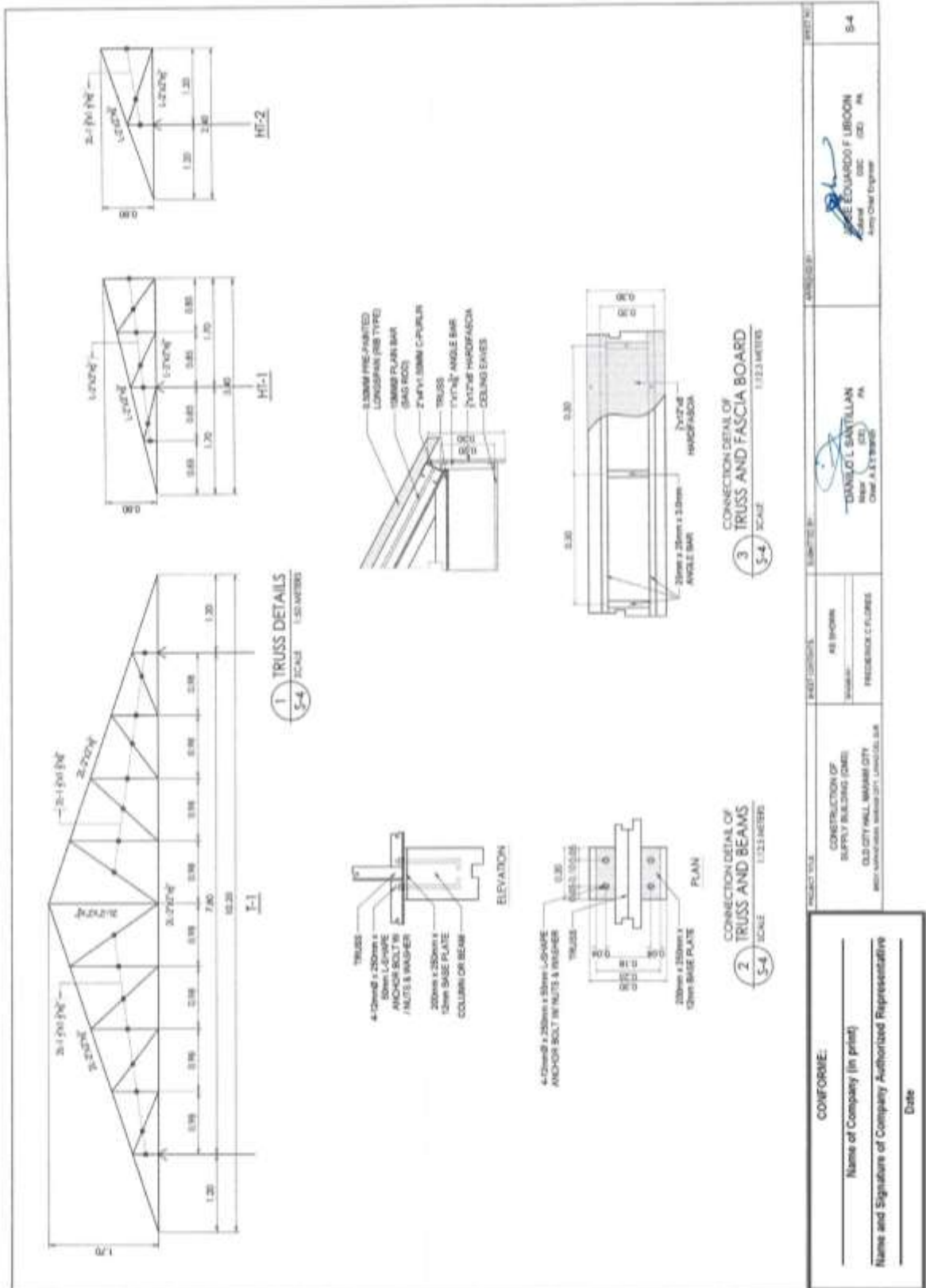
PROJECT TITLE: SUPPLY BUILDING JOB
CONSTRUCTION OF: OLD CITY HALL, MARAWI CITY
MARK: FREDERICK C FLORES
DATE: AS WORK

DESIGNED BY: DANIELO L SANTILLAN
 MEng, PE, RCE
 Chief A & E Branch

CHECKED BY: JOSE EDUARDO F LIBROON
 CE, PE, RCE
 Chief A & E Branch

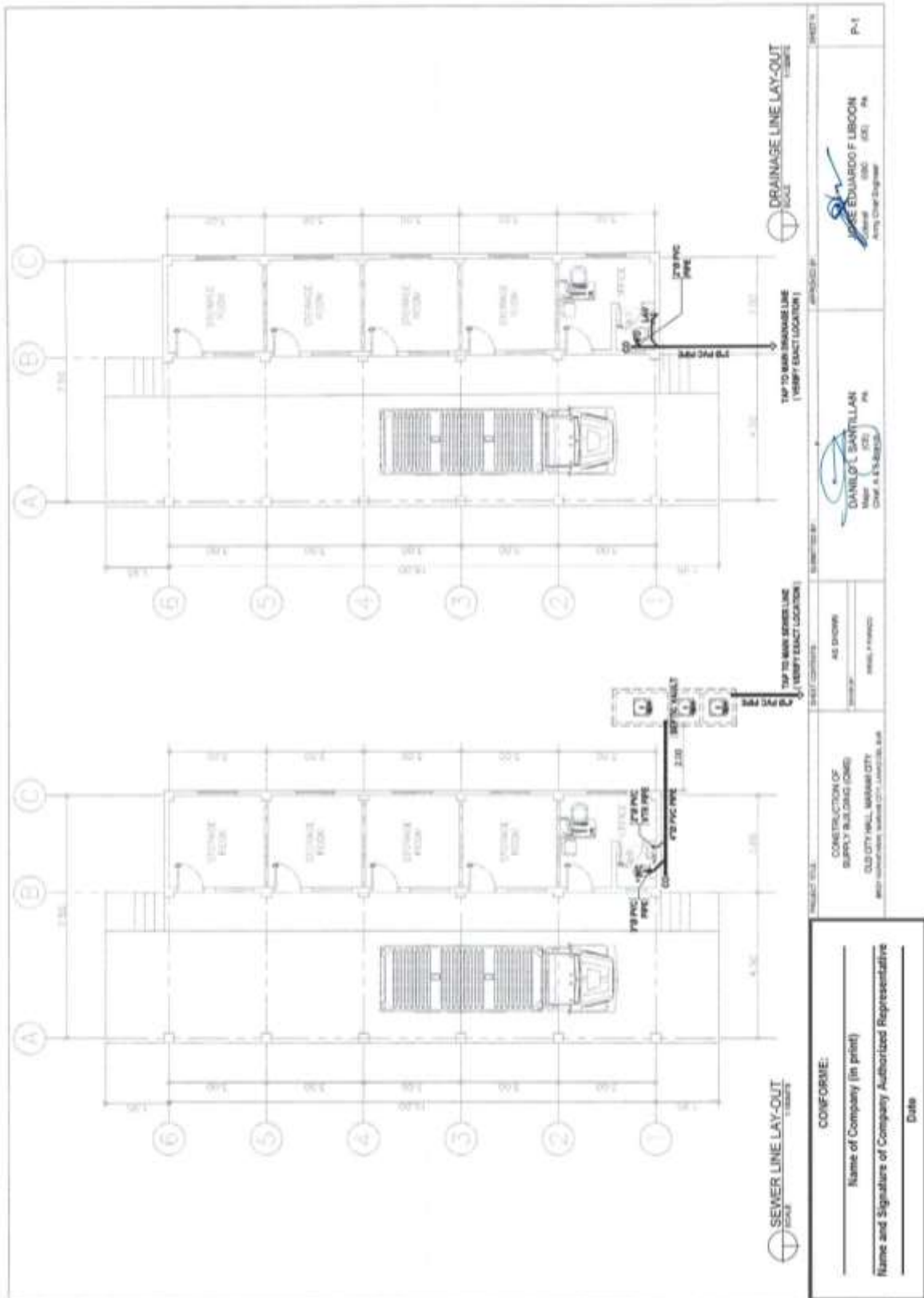
(Page 73/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



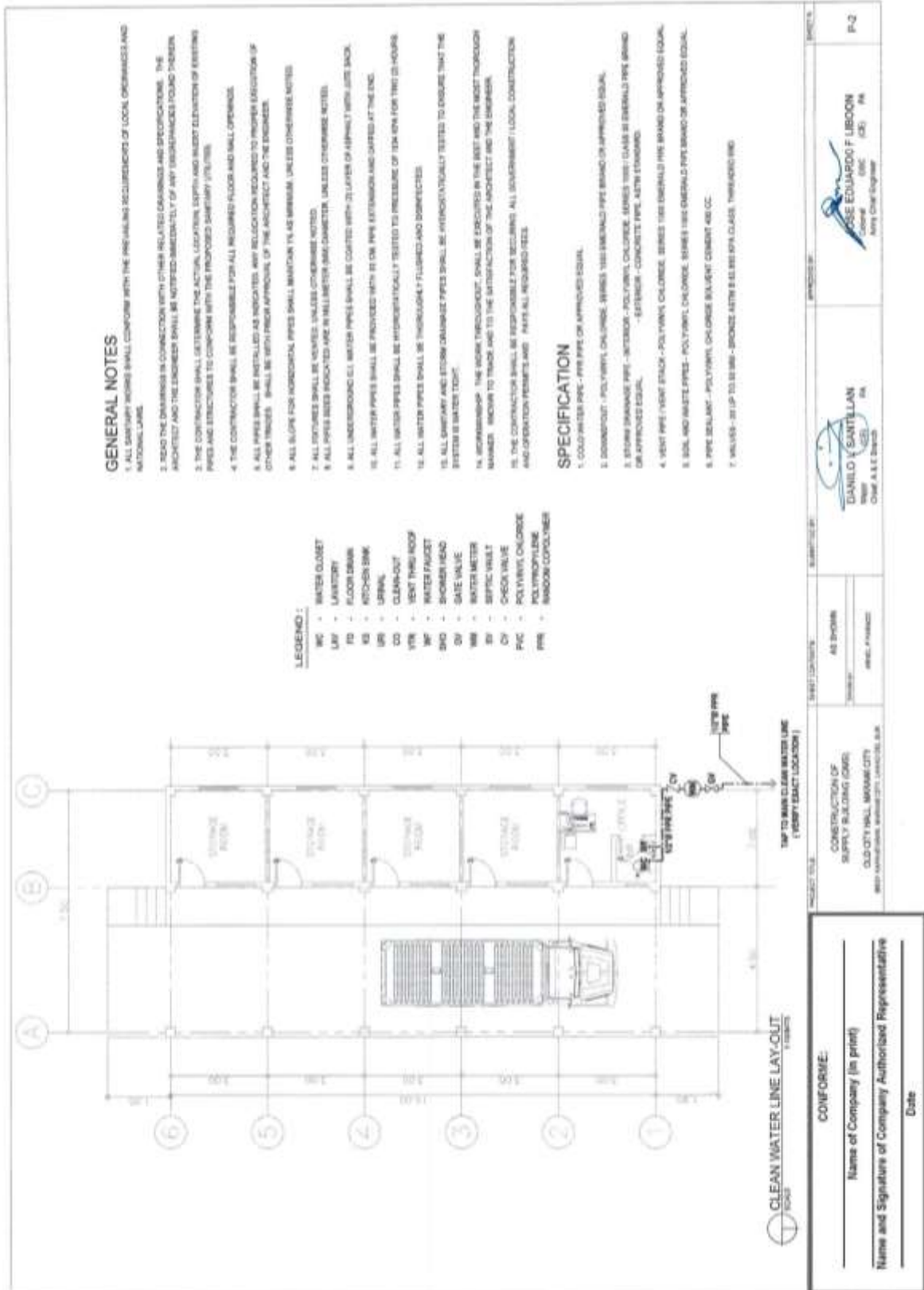
(Page 74/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



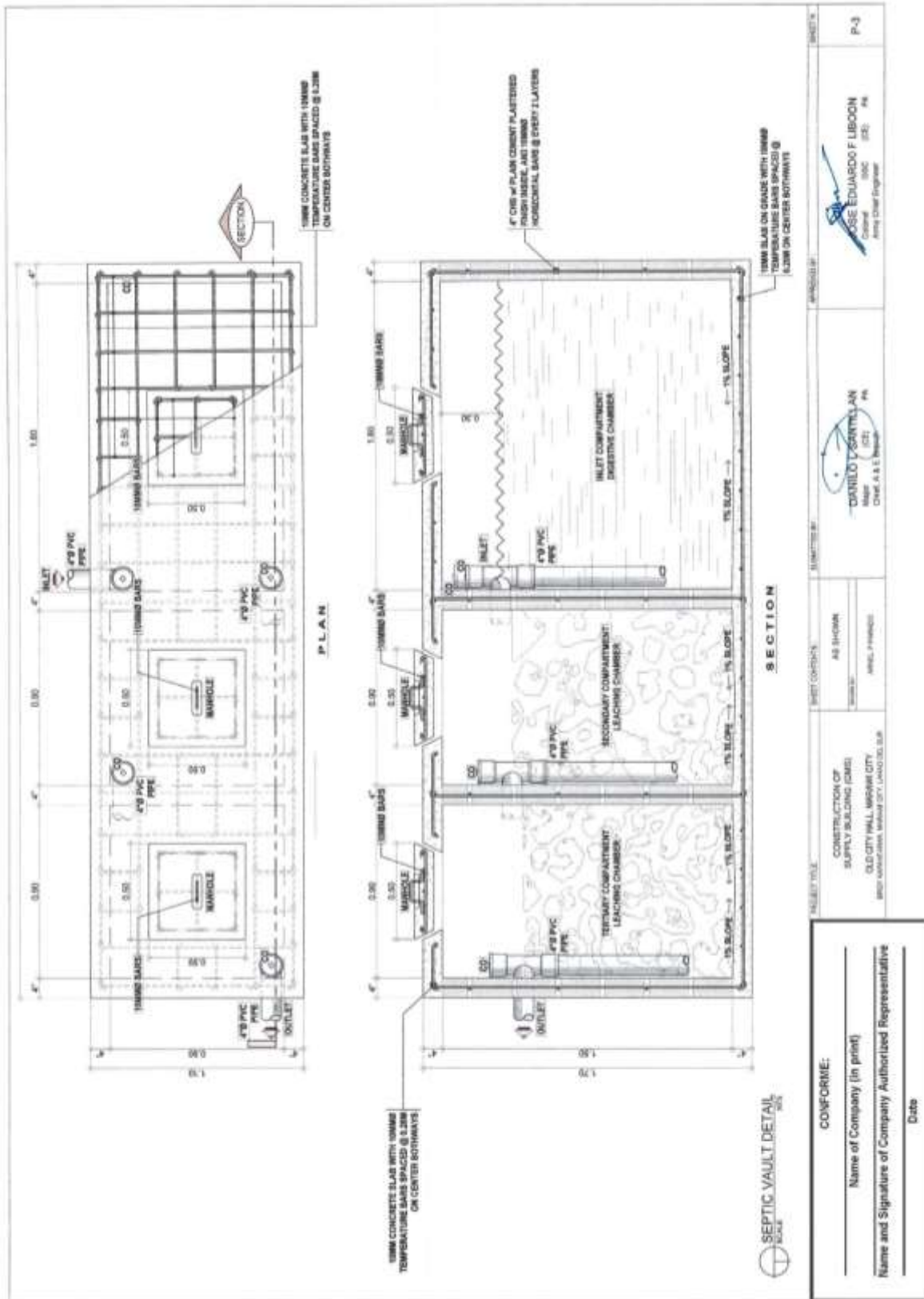
(Page 75/78)

**Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24**



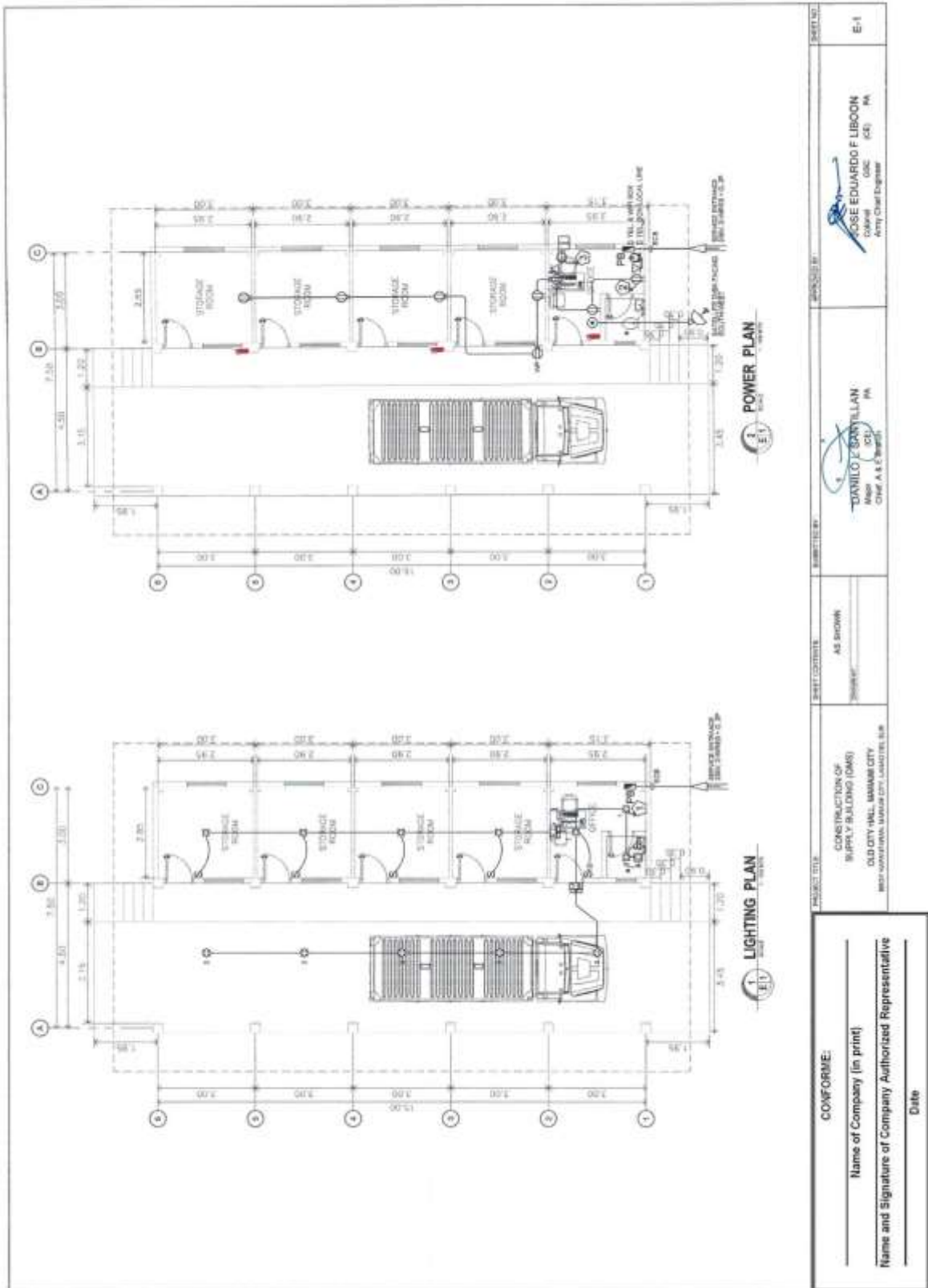
(Page 76/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



(Page 77/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot)
Bid Ref. No. ENG'G PABAC3 017-24



PROJECT TITLE	CONSTRUCTION OF SUPPLY BUILDING (OAS) OLD CITY HALL, MARAWI CITY
PROJECT SITE	BRGY. KAPANTARAN, MARAWI CITY, LANAO DEL SUR
SHEET CONTENTS	AS SHOWN
DATE	
DESIGNED BY	JOSE EDUARDO F LIBONON (OAS) (CE) (PA) Army Chief Engineer
APPROVED BY	DAVIDLO Z GAYILLAN (OAS) (CE) (PA) Chief A & C Staff
SHEET NO.	E-1

CONFORME:

 Name of Company (in print)

 Name and Signature of Company Authorized Representative

 Date

(Page 78/78)

Construction of Operational Support Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (Cluster 1) (1 Lot) Bid Ref. No. ENG'G PABAC3 017-24

