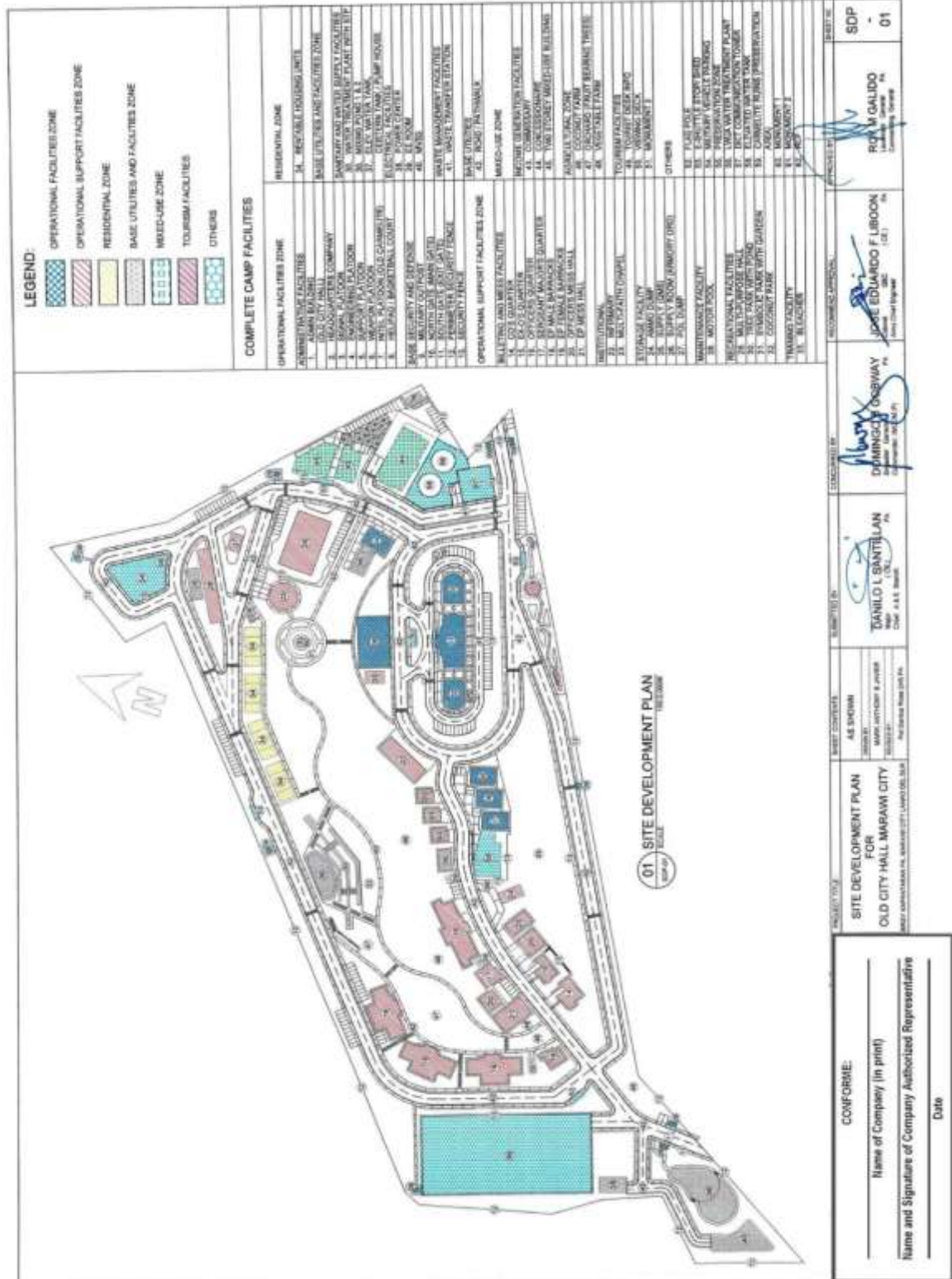


Section VII. Drawings

Description	ABC (PhP)	Page
Headquarters Company Administrative Building	4,969,262.00	1-21
2-Storey Guard Post	923,816.00	22-31
Standard Gate	5,834,240.00	32-43
Perimeter Fence	10,132,325.00	44-46
Total	21,859,643.00	

(Page 01/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot) Bid Ref. No. ENG'G PABAC3 016-24



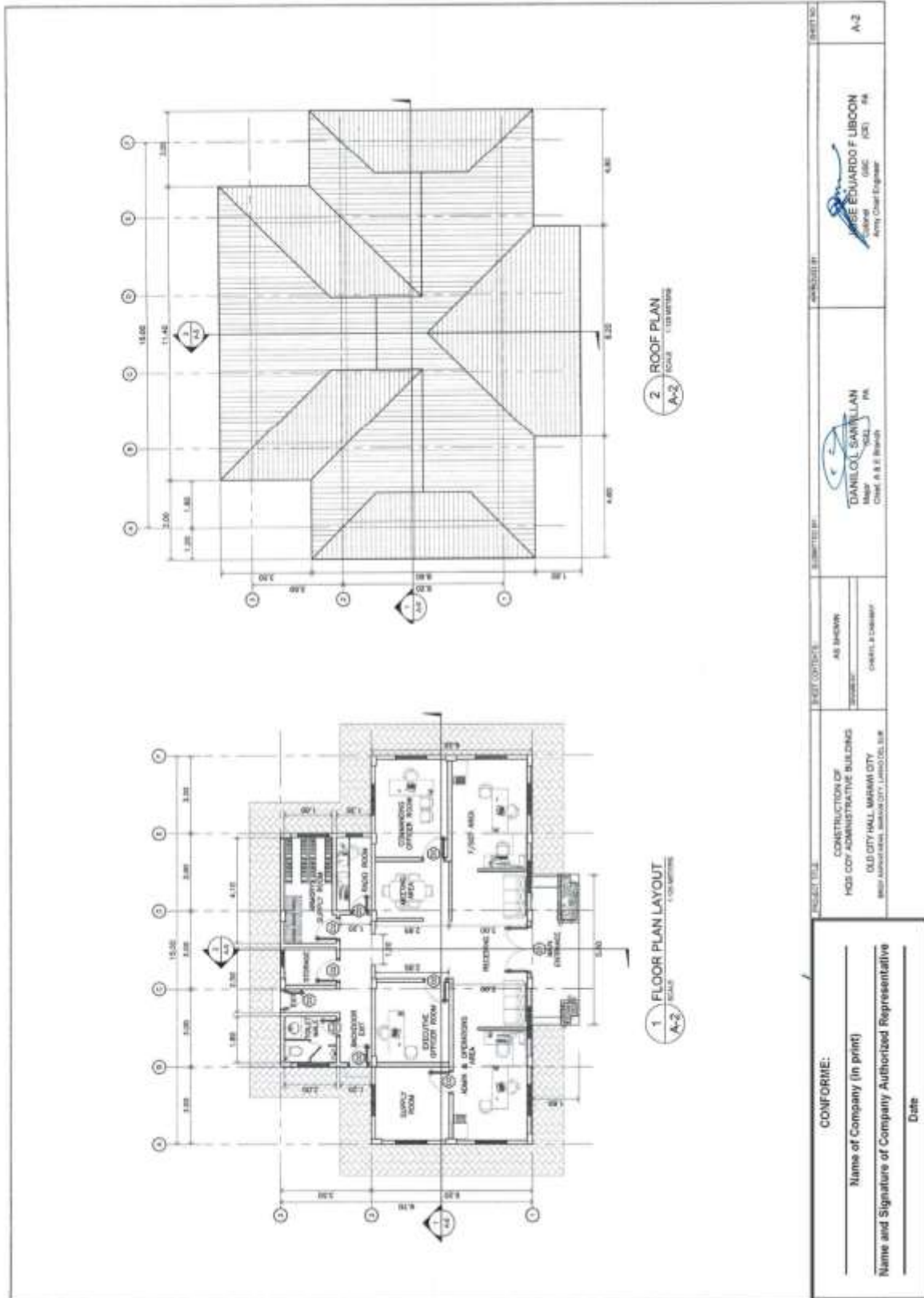
(Page 02/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

PROJECT TITLE	SUBMITTER	CONSULTANT	RECORDING OFFICER	SCALE
CONSTRUCTION OF HQS COY ADMINISTRATIVE BUILDING OLD CITY HALL, MARAWI CITY	ASB SWORN	DERRILDO L. SANTILLAN	JOSUE EDUARDO F. LIBROON	A-01
<p>COMFORME:</p> <p>Name of Company (in print) _____</p> <p>Name and Signature of Company Authorized Representative _____</p> <p>Date _____</p>				

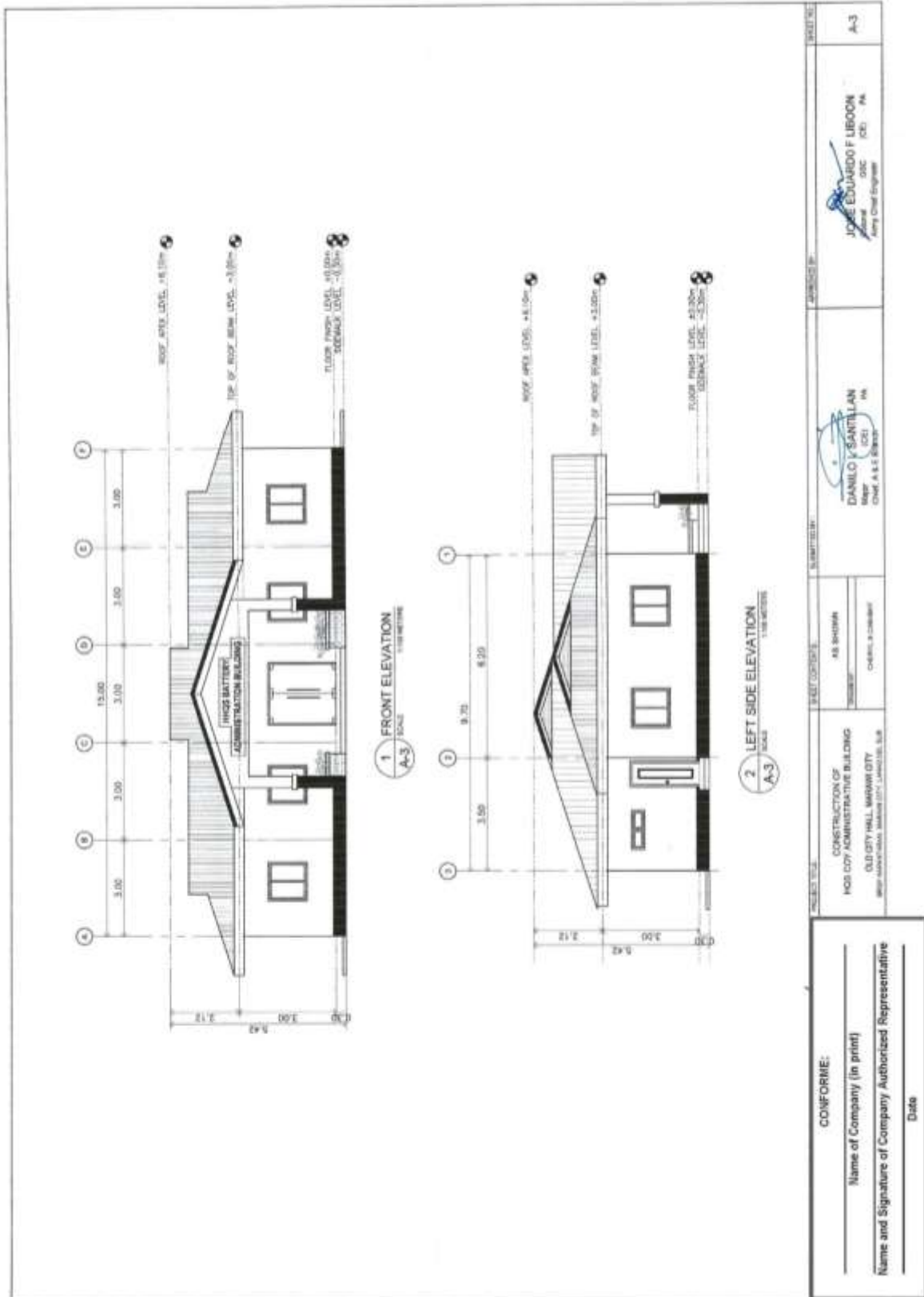
(Page 03/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



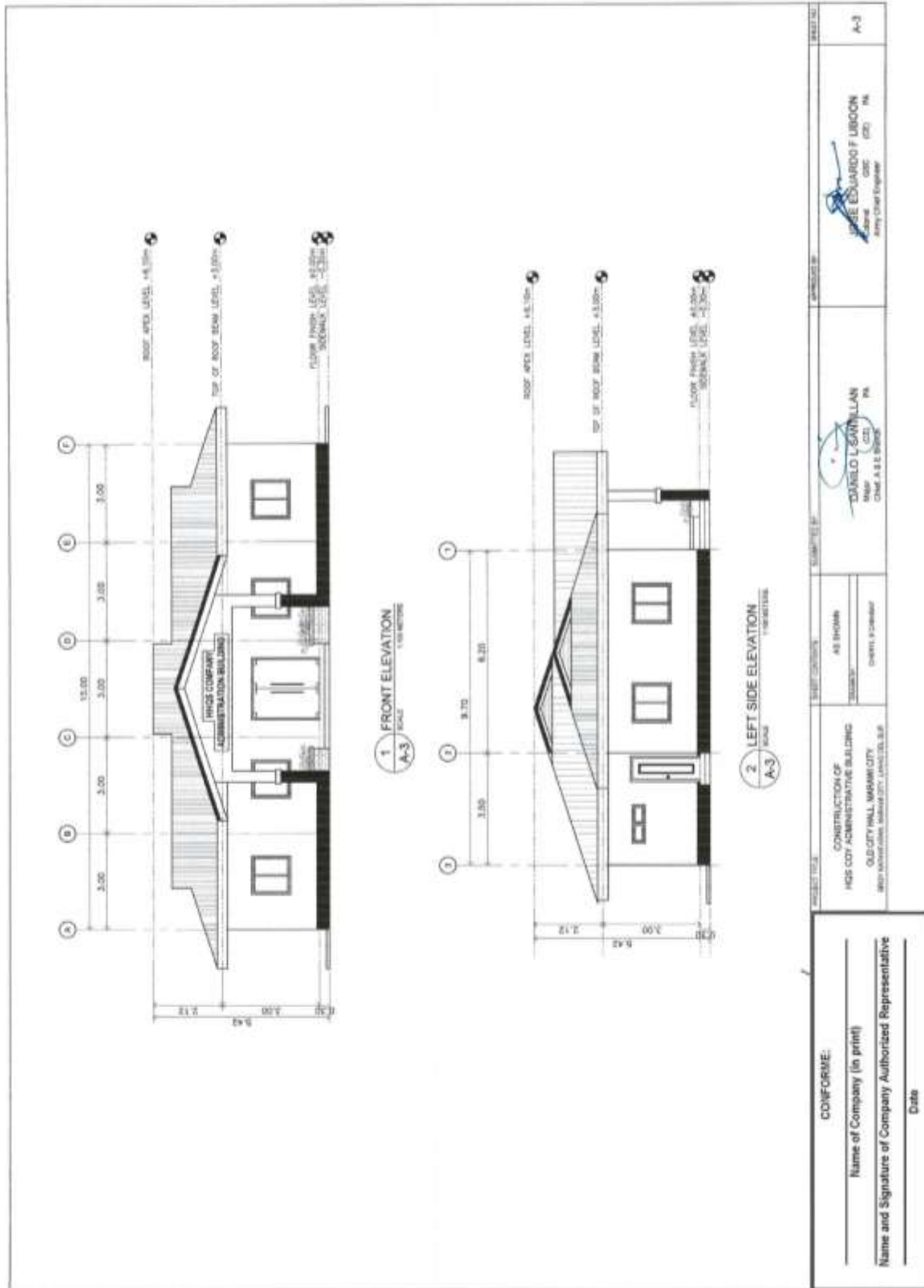
(Page 04/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



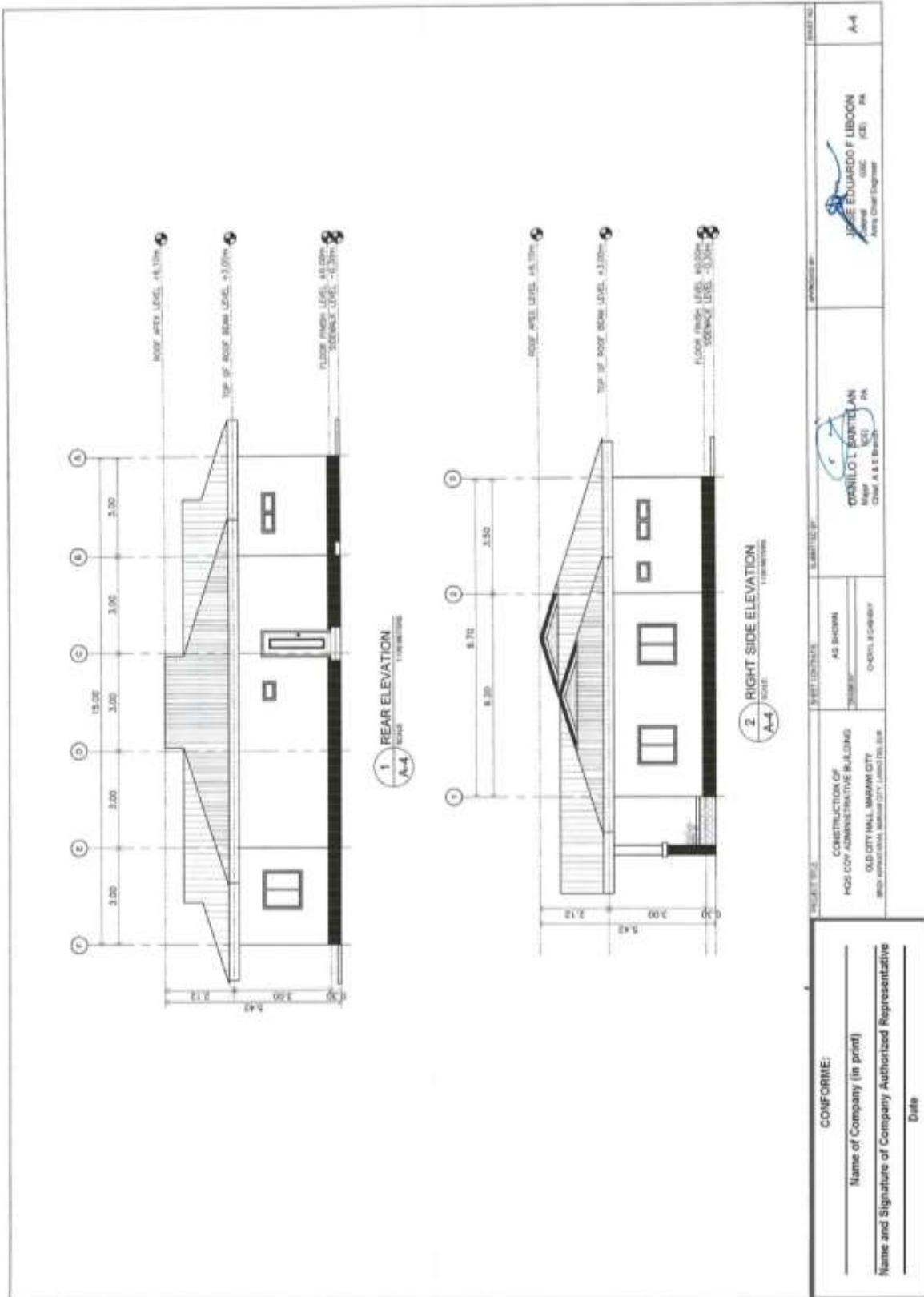
(Page 05/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



(Page 06/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



(Page 07/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

1 LONGITUDINAL SECTION
SCALE: 1:100 METERS

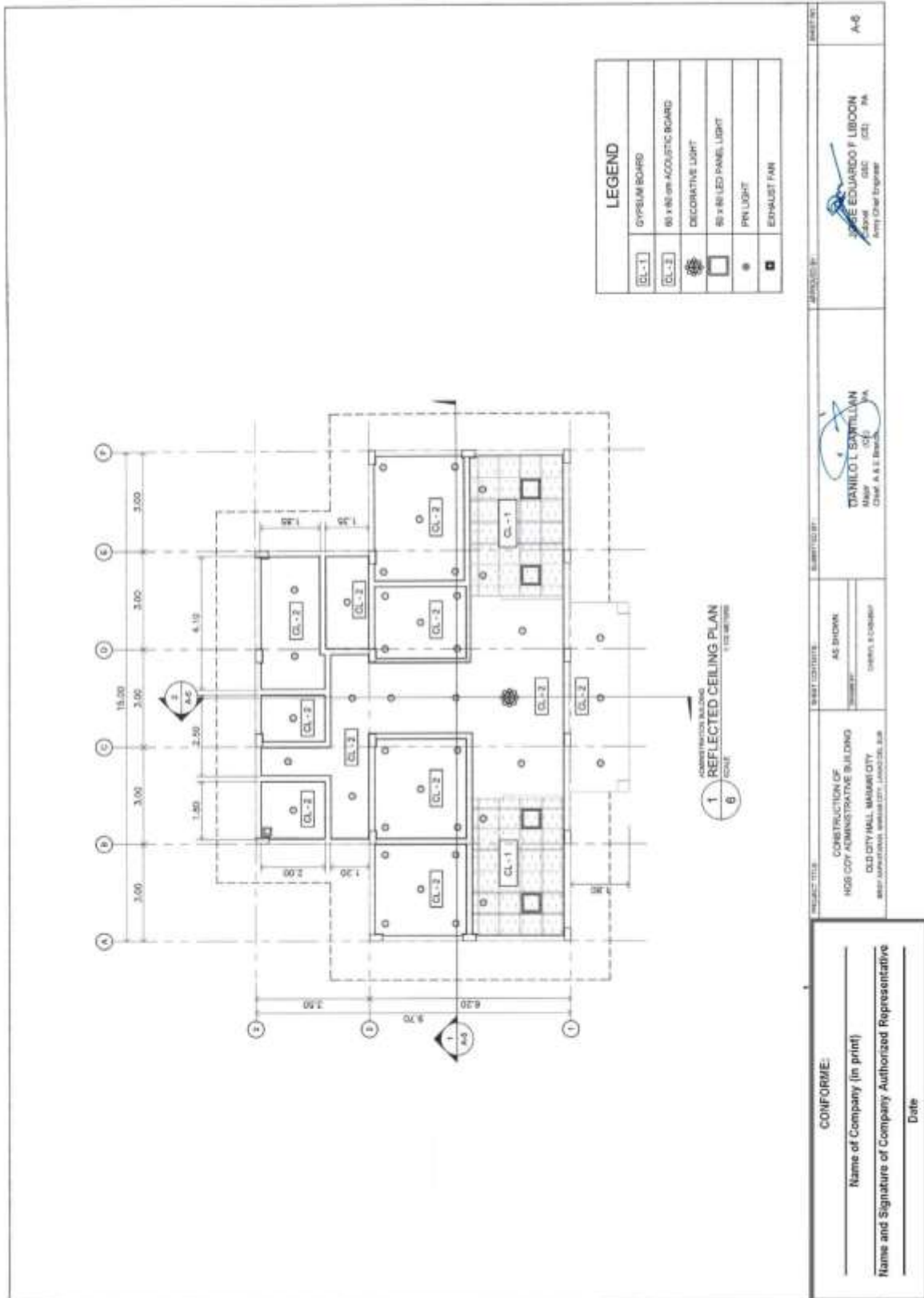
2 CROSS SECTION
SCALE: 1:100 METERS

3 SCHEDULE OF DOORS & WINDOWS
SCALE: 1:100 METERS

CONFORME: Name of Company (in print) Name and Signature of Company Authorized Representative Date		PROJECT NO. 1 SHEET NO. A-5
TITLE: CONSTRUCTION OF Hqs. Coy Administrative Building, Old City Hall, Marawi City REF: 1000-1000-1000-1000-1000		DRAWN BY: CARLO L. SARRILLAN, RA Chief, A.E.E. Branch
AS SHOWN	CHECKED BY:	APPROVED BY: JOSE EDUARDO F. LIBORON, RA Army Chief Engineer

(Page 08/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24

TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

1. IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE CORNER STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.

2. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS-SECTIONAL AREA (A_G) OF THE SLAB [SEE SCHEDULE BELOW]

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm # 8 @ 20mm EACH WAY
115 mm	10 mm # 8 @ 25mm EACH WAY
130 mm	10 mm # 8 @ 30mm EACH WAY
145 mm	10 mm # 8 @ 35mm EACH WAY
160 mm	10 mm # 8 @ 40mm EACH WAY
175 mm	10 mm # 8 @ 45mm EACH WAY
200 mm	10 mm # 8 @ 50mm EACH WAY

3. UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm # 8 AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.00 METER APART.

4. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLABS (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.

5. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.

SCHEDULE OF MINIMUM SLAB REINFORCEMENT

TYPICAL CORNER SLAB DETAIL

DOWN AND EDGE BEAM EXTENDED 4-# 12B 1800 LONG TOP BARS BEING BARS MIN. OF 1,200 (4'-0") INTO BARS 4-#12 BOTT. BARS

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 MOST 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
- SUPPOSED
- WALLS
- BEAMS
- COLUMNS
- 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 FINISH 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 150mm BELOW NATURAL 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:
 - A. FOOTINGS, FOOTING BEAMS AND GIRDERS $f_y = 277.5 \text{ MPa}$ (31,000 psi)
 - B. COLUMNS AND SHEAR WALLS $f_y = 277.5 \text{ MPa}$ (31,000 psi)
 - C. BEAMS AND GIRDERS $f_y = 277.5 \text{ MPa}$ (31,000 psi)
 - D. REINFORCING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, $f_y = 277.5 \text{ MPa}$ (31,000 psi)
- ALL REINFORCEMENTS SHALL BE PLAIN UNLESS OTHERWISE NOTED IN DRAWINGS. REINFORCEMENTS SHALL BE PLAIN WITH ASTM A 305. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPLICES SHALL BE SECURELY WIED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER 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:

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GVERN AND DISTANCES AND BIDS 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 DOORS 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 AC 318 - 08 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE AISC SPECIFICATION (9TH EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS 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, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CLIMBS, SULLS, STOODLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF INITIAL 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 TWENTY EIGHT (28) DAYS W/ 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)	20mm
COLUMNS	3000 PSI (20.70 MPa)	20mm
BEAMS, SLABS	3000 PSI (20.70 MPa)	20mm
SLAB ON FILL	3000 PSI (20.70 MPa)	30mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL, AS FOLLOWS:
 - SUSPENDED SLABS
 - SLAB ON GRADE
 - WALLS ABOVE GRADE
 - BEAM STRUPLUPS AND COLUMN TIES
 - WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS
 - WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO THINLY 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 DESIGNER, AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

CONFORME:

Name of Company (in print)

Name and Signature of Company Authorized Representative

Date

PROJECT TITLE
 CONSTRUCTION OF HGS COY ADMINISTRATIVE BUILDING OLD CITY HALL, MARAWI CITY
 8957 CALABARZON, MARAWI CITY, LANA DEL SUR

CLIENT / OWNERS
 AB SHOHAN
 FREDERICK C. FLORES

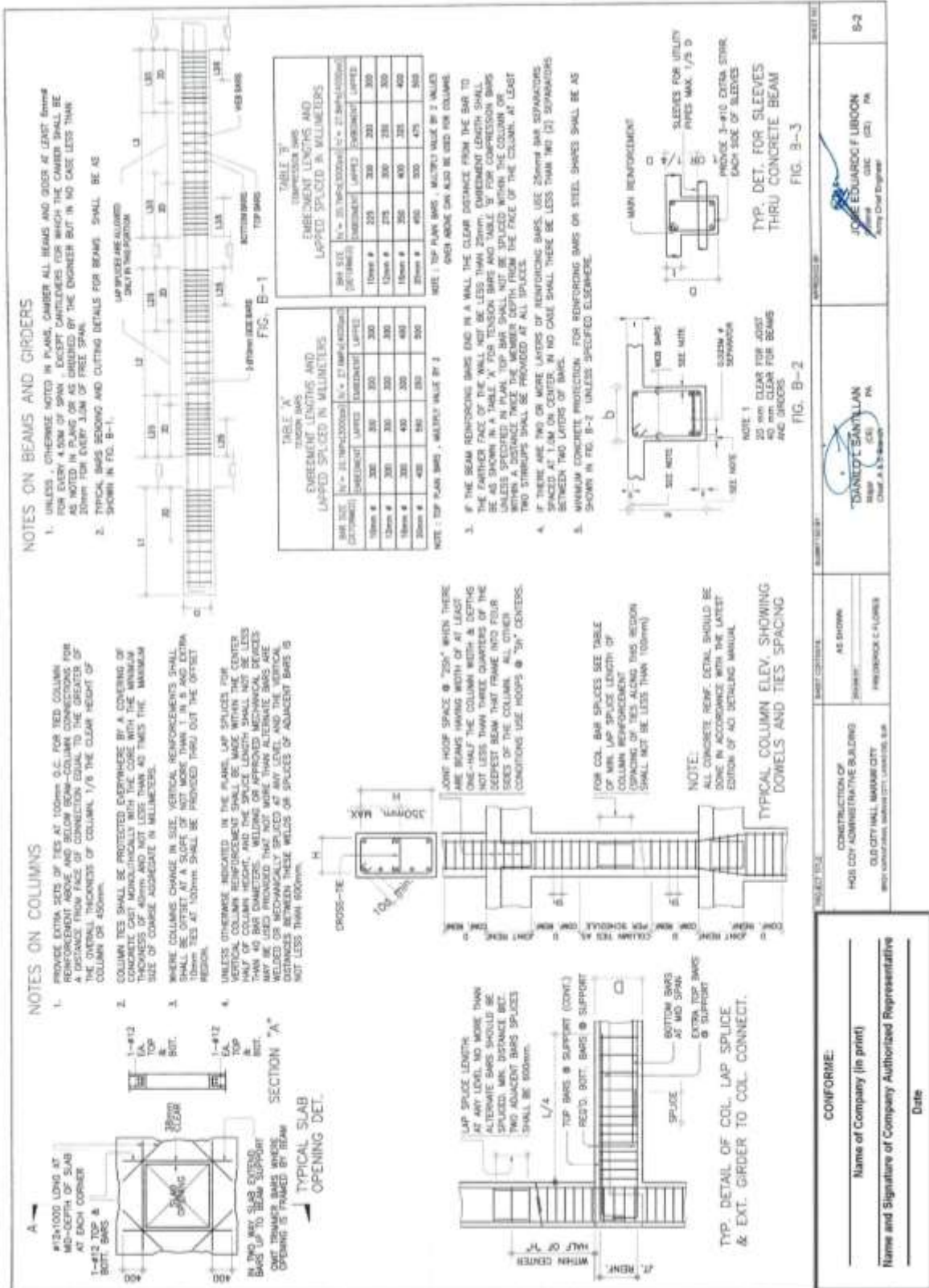
DESIGNER
 DANIELO Y. SANMILLAN
 ENGINEER (REG.)
 Civil & E.E. Division

APPROVED BY:
 JOSE EDUARDO F. LIBROON
 CIVIL ENGINEER (REG.)
 Army Chief Engineer

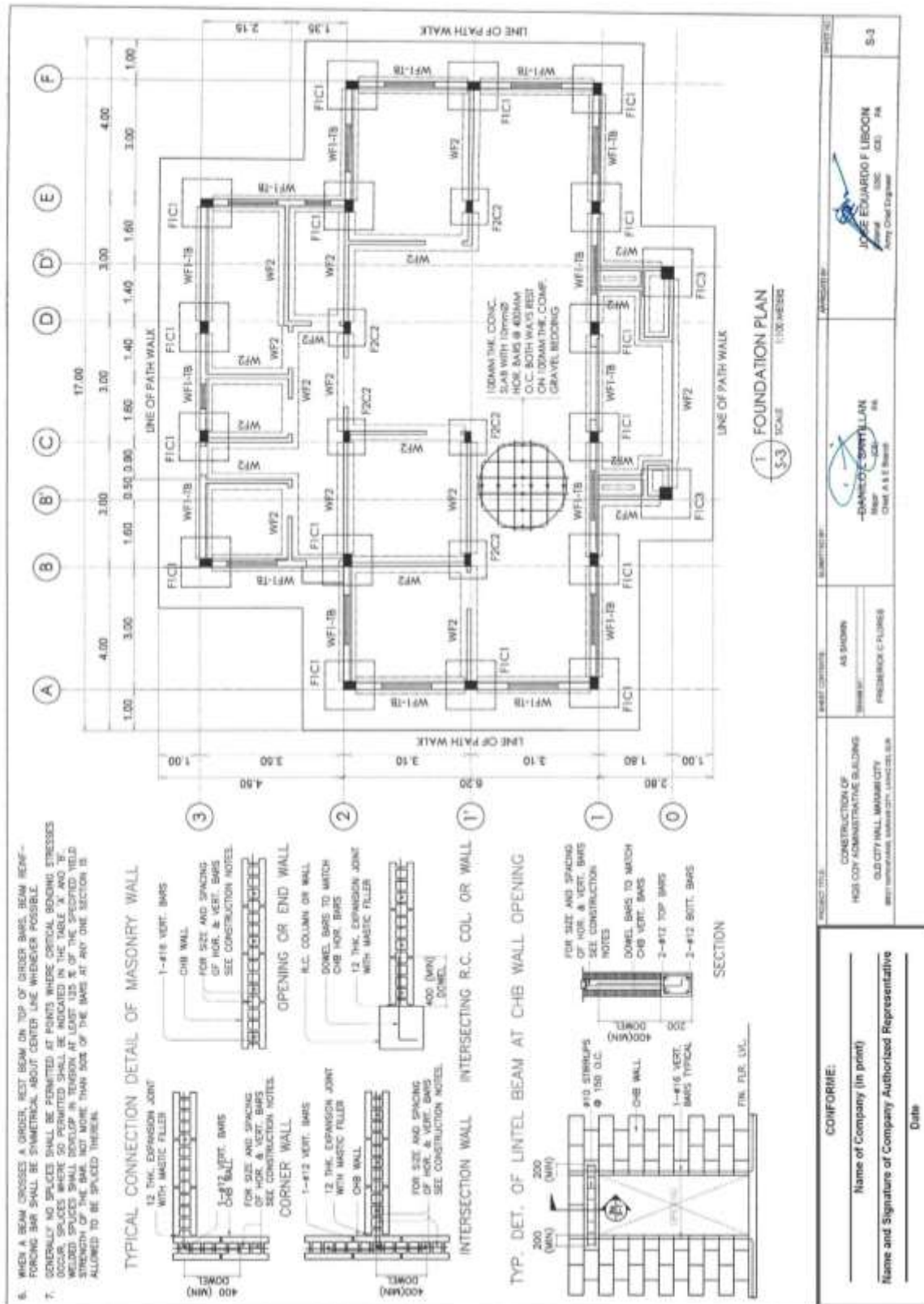
SHEET NO. S-1

(Page 10/46)

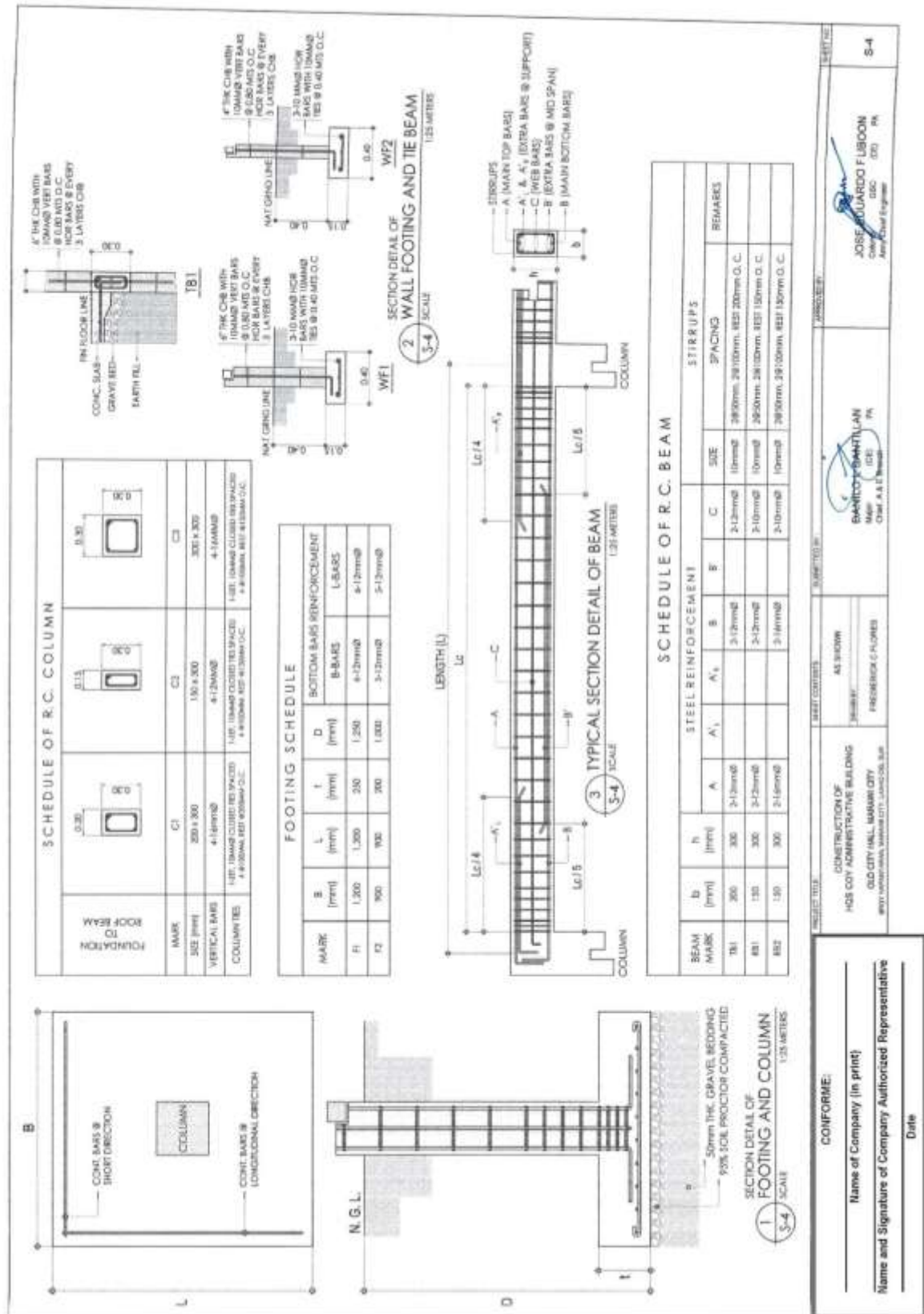
Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24



Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24



CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

PROJECT TITLE: CONSTRUCTION OF HOSE COY ADMINISTRATIVE BUILDING OLD CITY HALL, MARAWI CITY

AS SHOWN

PREPARED BY: FREDERICK C. PALMER

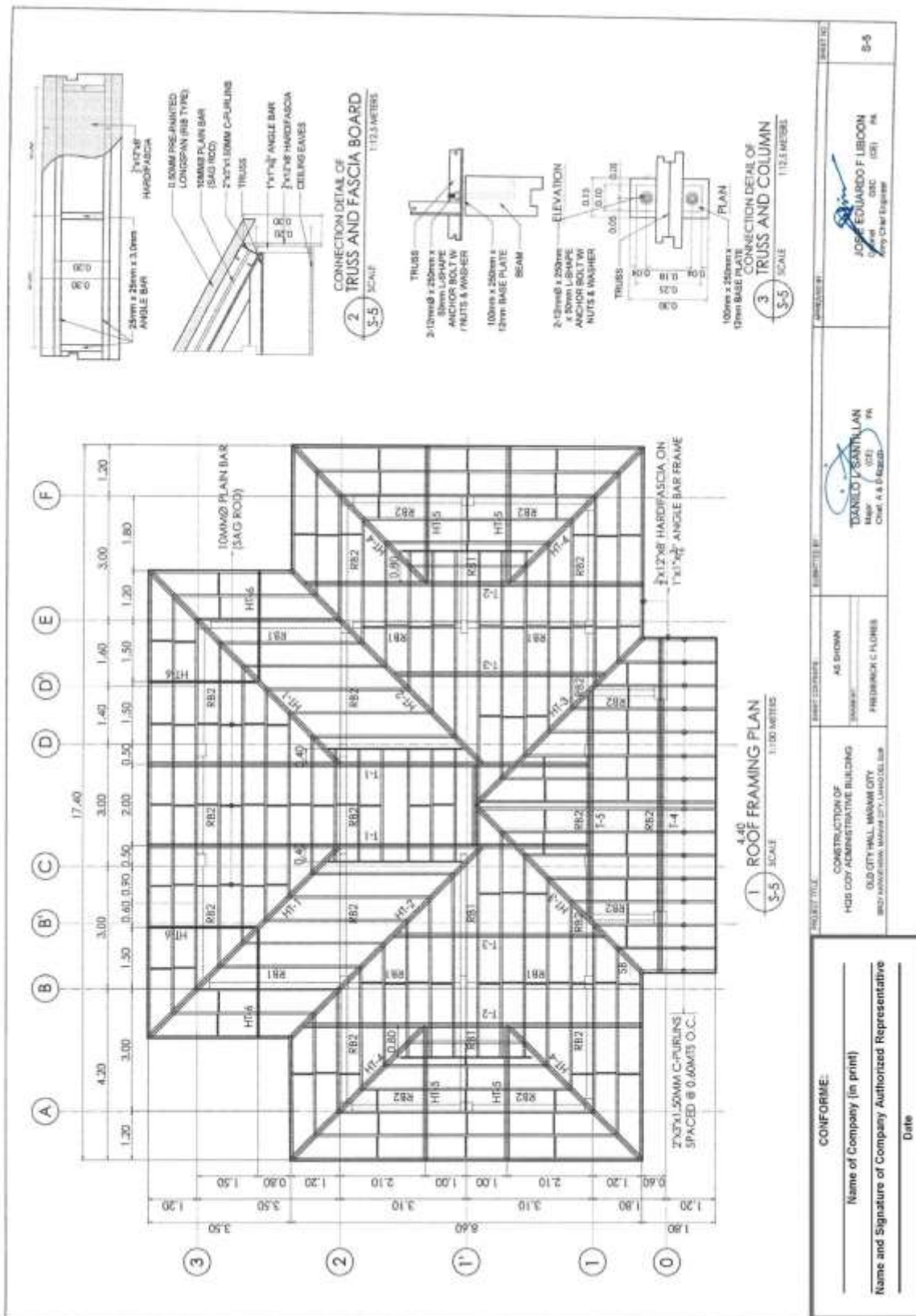
DATE: 01/20/2018

DESIGNED BY: JOSE GUARDADO F. USOON

SCALE: S-4

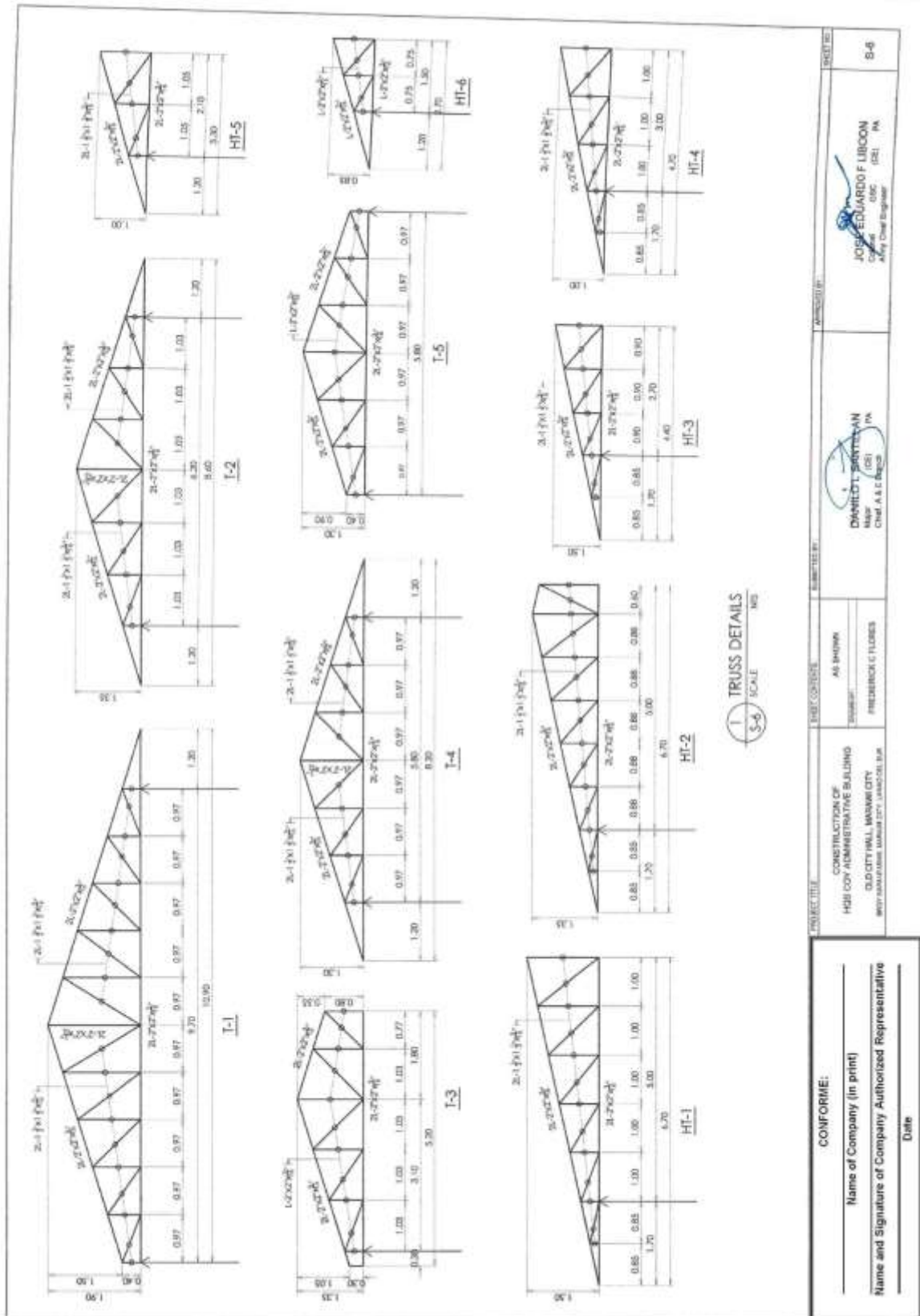
(Page 13/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



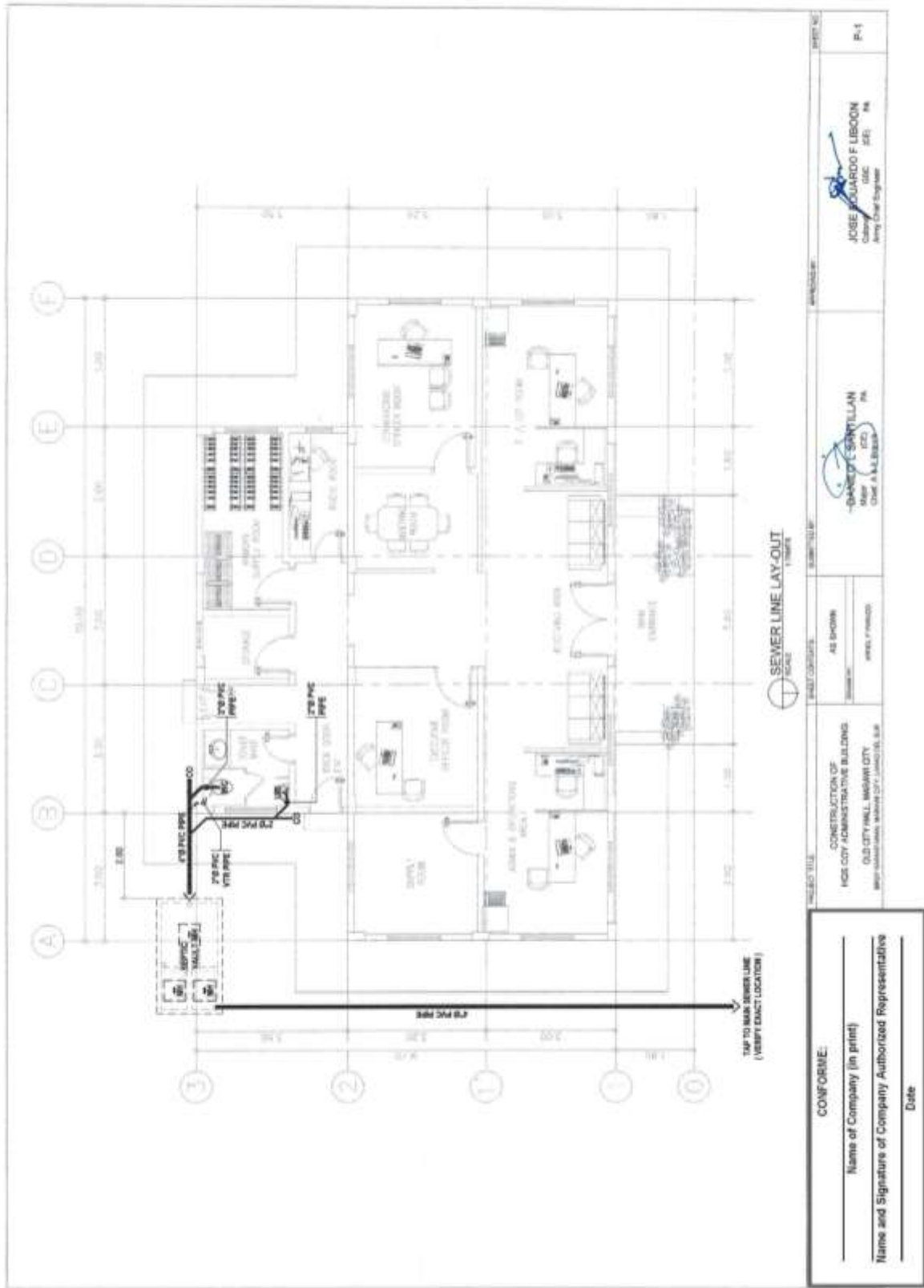
PROJECT TITLE CONSTRUCTION OF HQS CITY ADMINISTRATIVE BUILDING OLD CITY HALL, MARAWI CITY AND ANNEXATION, MARAWI CITY, LANA DEL SUR		SUBMITTED BY AS BROWN ENGINEER FREDERICK C. FLORIS	REGISTERED JOSE EDUARDO F. LUBDON Civil Engr. (051) PH City Char Engineer
PROJECT NO. CONFORME:		DRAWING NO. 3-5	DATE 3-5
Name of Company (in print) Name and Signature of Company Authorized Representative		Date	

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24



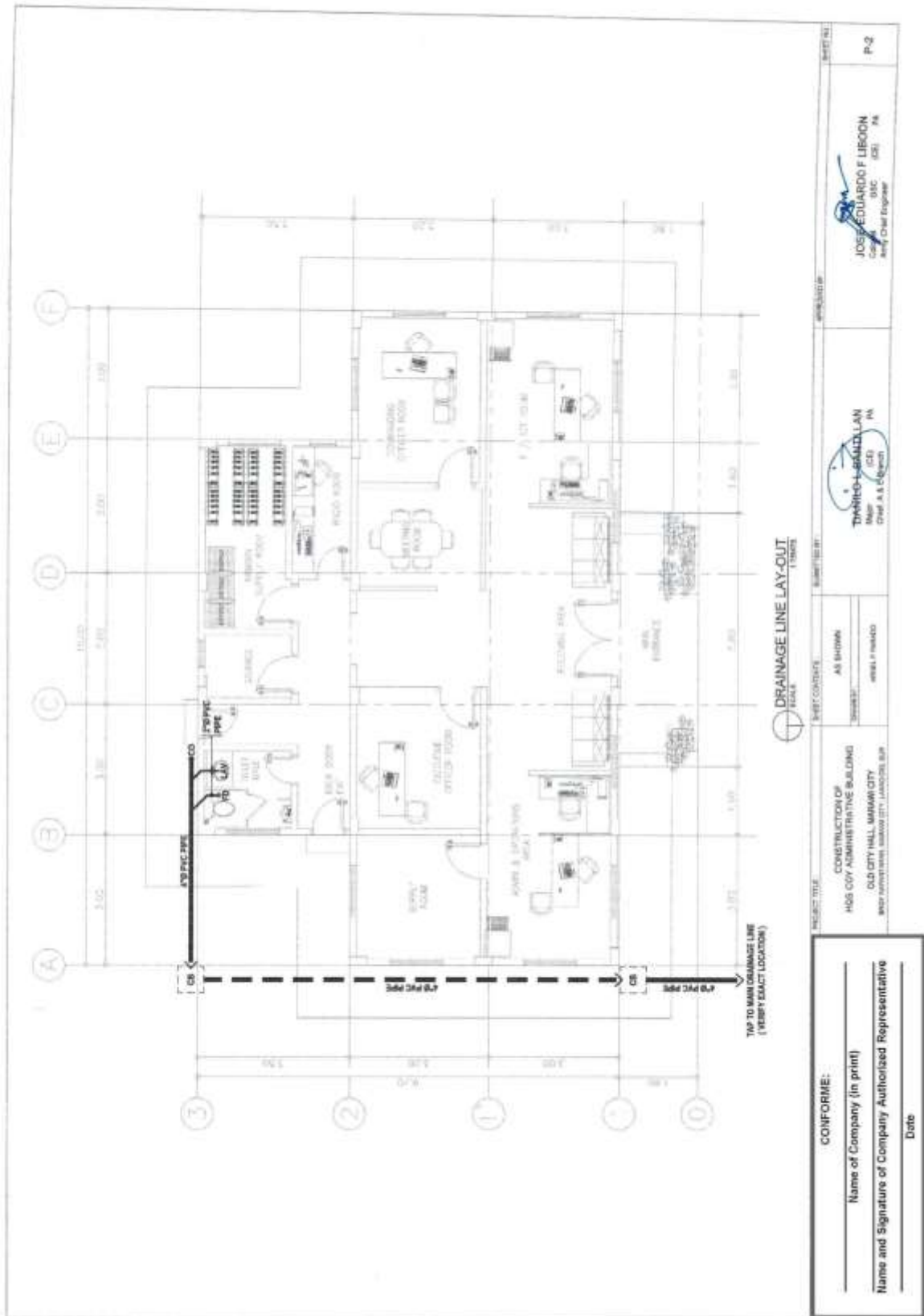
(Page 15/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



(Page 16/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



CONFORME:

Name of Company (in print) _____

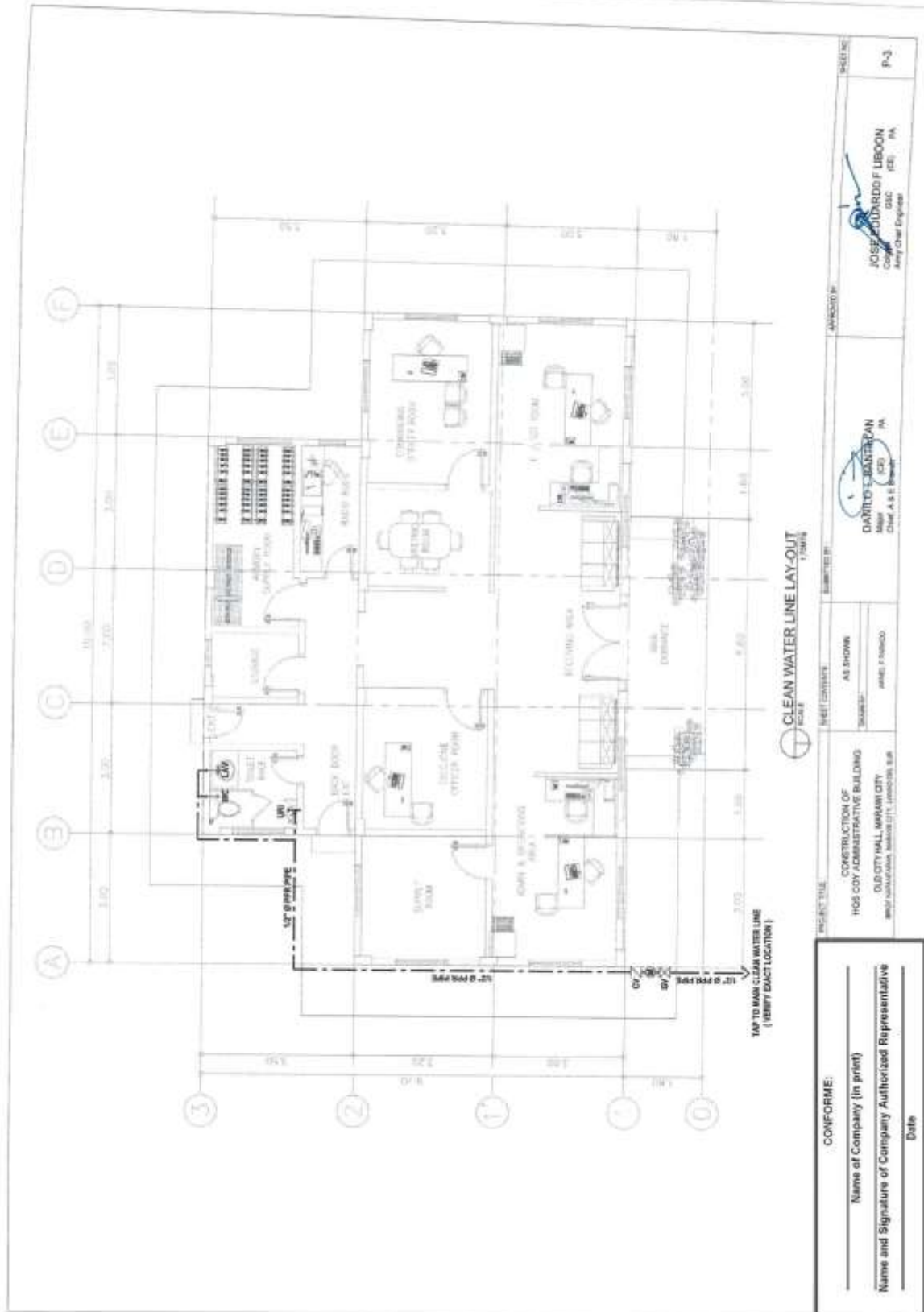
Name and Signature of Company Authorized Representative _____

Date _____

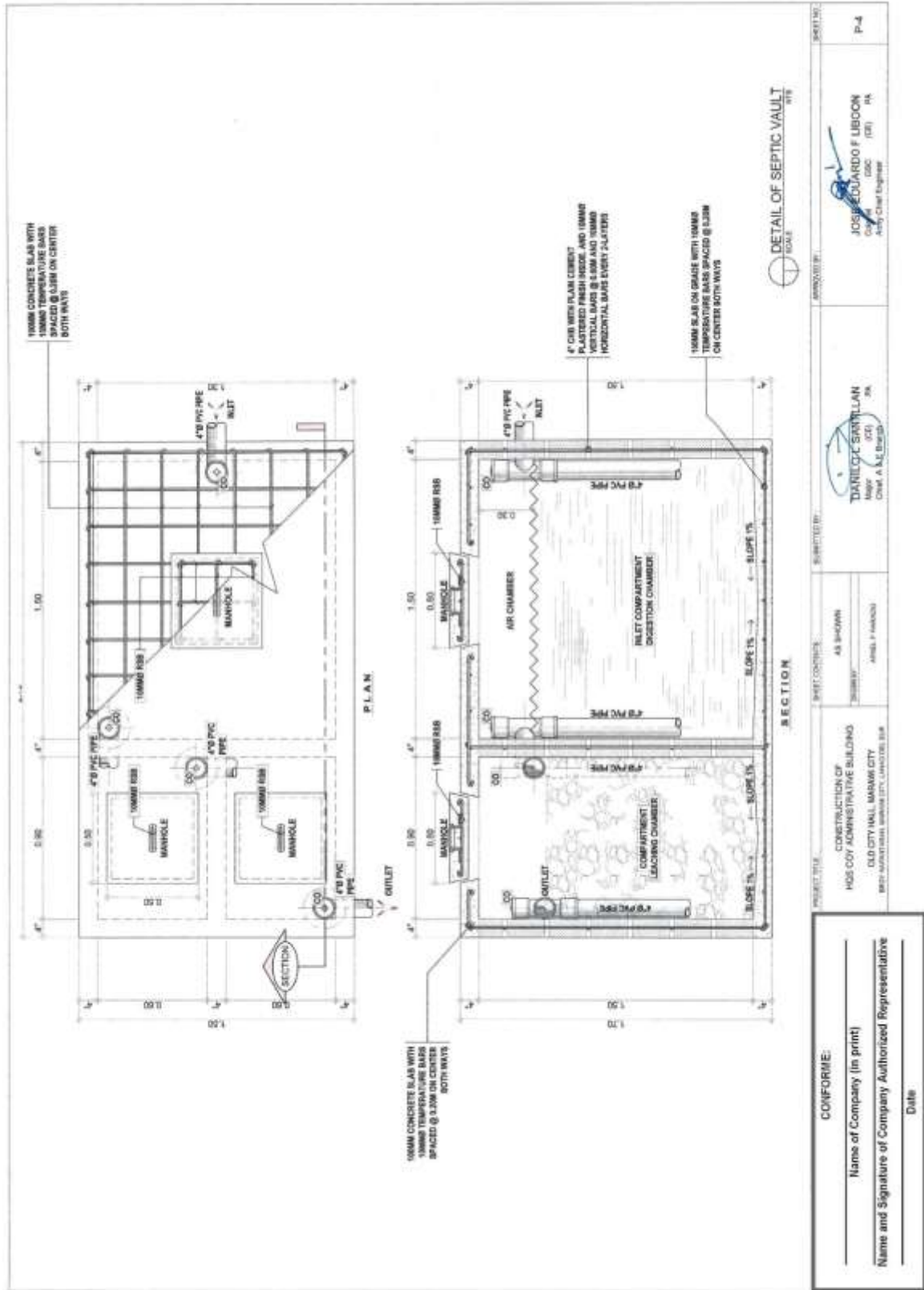
PROJECT TITLE	CONSTRUCTION OF HQS CIVIL ADMINISTRATION BUILDING OLD CITY HALL, MARAWI CITY Brgy. Kapantaran, Marawi City, Lanao Del Sur
SHEET CONTENTS	AS SHOWN
REVISIONS	AS SHOWN
DATE	AS SHOWN
DESIGNED BY	JOSE EDUARDO F. LIBONON Civil Engineer (CE) Professional No. 104
CHECKED BY	JOSE EDUARDO F. LIBONON Civil Engineer (CE) Professional No. 104
DATE	P-2

(Page 17/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24

GENERAL NOTES

1. ALL SANITARY WORKS SHALL CONFORM WITH THE PREVALENT REQUIREMENTS OF LOCAL ORDINANCES AND NATIONAL CODES.
2. IN CASE THE DRAWINGS IN CONNECTION WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS, THE ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES FOUND THEREON.
3. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF EXISTING PIPES AND STRUCTURES TO CORROBORATE WITH THE PROPOSED SANITARY UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED FLOOR AND WALL OPENINGS.
5. ALL PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED TO PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT AND THE ENGINEER.
6. ALL SLOPE FOR HORIZONTAL PIPES SHALL MAINTAIN 1% AS MINIMUM UNLESS OTHERWISE NOTED.
7. ALL FITTINGS SHALL BE VENTED UNLESS OTHERWISE NOTED.
8. ALL PIPES BEING INDICATED ARE IN 1/2 INCHER (6MM) DIAMETER UNLESS OTHERWISE NOTED.
9. ALL UNDERGROUND (U) WATER PIPES SHALL BE COATED WITH (2) LAYER OF ASPHALT WITH JUTE SACK.
10. ALL WATER PIPES SHALL BE PROVIDED WITH 30 CM R.P.P.E. EXTENSION AND CAPPED AT THE END.
11. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO PRESSURE OF 15M R.P.M FOR TWO (2) HOURS.
12. ALL WATER PIPES SHALL BE THOROUGHLY FLUSHED AND DEBURRED.
13. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED TO ENSURE THAT THE SYSTEM IS WATER TIGHT.
14. WORKMANSHIP, THE WORK THROUGHOUT, SHALL BE EXECUTED IN THE BEST AND THE MOST THOROUGH MANNER KNOWN TO TRADE AND TO THE SATISFACTION OF THE ARCHITECT AND THE ENGINEER.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION AND OPERATION PERMITS AND PAY ALL REQUIRED FEES.

SPECIFICATION

1. COLD WATER PIPE - PPR PIPE OR APPROVED EQUAL.
2. DRAIN/OUT - POLYVINYL CHLORIDE, SERIES 1000 EMERALD PIPE BRAND OR APPROVED EQUAL.
3. STORM DRAINAGE PFC - INTERIOR - POLYVINYL CHLORIDE, SERIES 1000 CLASS 10 EMERALD PIPE BRAND OR APPROVED EQUAL. - EXTENSION - CONCRETE PIPE, ASTM STANDARD.
4. VENT PIPE / VENT STACK - POLYVINYL CHLORIDE, SERIES 1000 EMERALD PIPE BRAND OR APPROVED EQUAL.
5. SOIL AND WASTE PIPES - POLYVINYL CHLORIDE, SERIES 1000 EMERALD PIPE BRAND OR APPROVED EQUAL.
6. PIPE SEALANT - POLYETHYLENE GLYCOL SOLVENT CEMENT 400 GC.
7. VALVES - 3/4" UP TO 2" 90 MM - 3000PSI ASTM B 818M 90A CLASS, THREADED END.

LEGEND :

- WC - WATER CLOSET
- LAV - LAVATORY
- FD - FLOOR DRAIN
- NS - NOTCHER SINK
- URI - URINAL
- CO - CLEAN-OUT
- VTR - VENT THROUGH ROOF
- WF - WATER FOUNTAIN
- SNO - SINK OVERHEAD
- GV - GATE VALVE
- WM - WATER METER
- BV - BOTTIC WALL
- CV - CHECK VALVE
- PVC - POLYVINYL CHLORIDE
- PPR - RANDOM COPOLYMER

15MM THICK CONC. SLAB WITH 15MM2 TEMPERATURE BARS BOTHWAYS (CONCRETE COVER)

P L A N

15MM THICK CONC. SLAB WITH 15MM2 TEMPERATURE BARS BOTHWAYS (CONCRETE COVER)

S E C T I O N

CATCH BASIN DETAIL
 SCALE: 1:10

CONFORME:

Name of Company (in print) _____


Name and Signature of Company Authorized Representative _____


Date _____

PROJECT TITLE: CONSTRUCTION OF HQS COY ADMINISTRATIVE BUILDING OLD CITY HALL, MARAWI CITY
REC'D-ARCHITECTURAL, MARAWI CITY, LANAOS DEL SUR

SHEET CONTENTS: AS DRAWN

DATE: APRIL 14, 2020

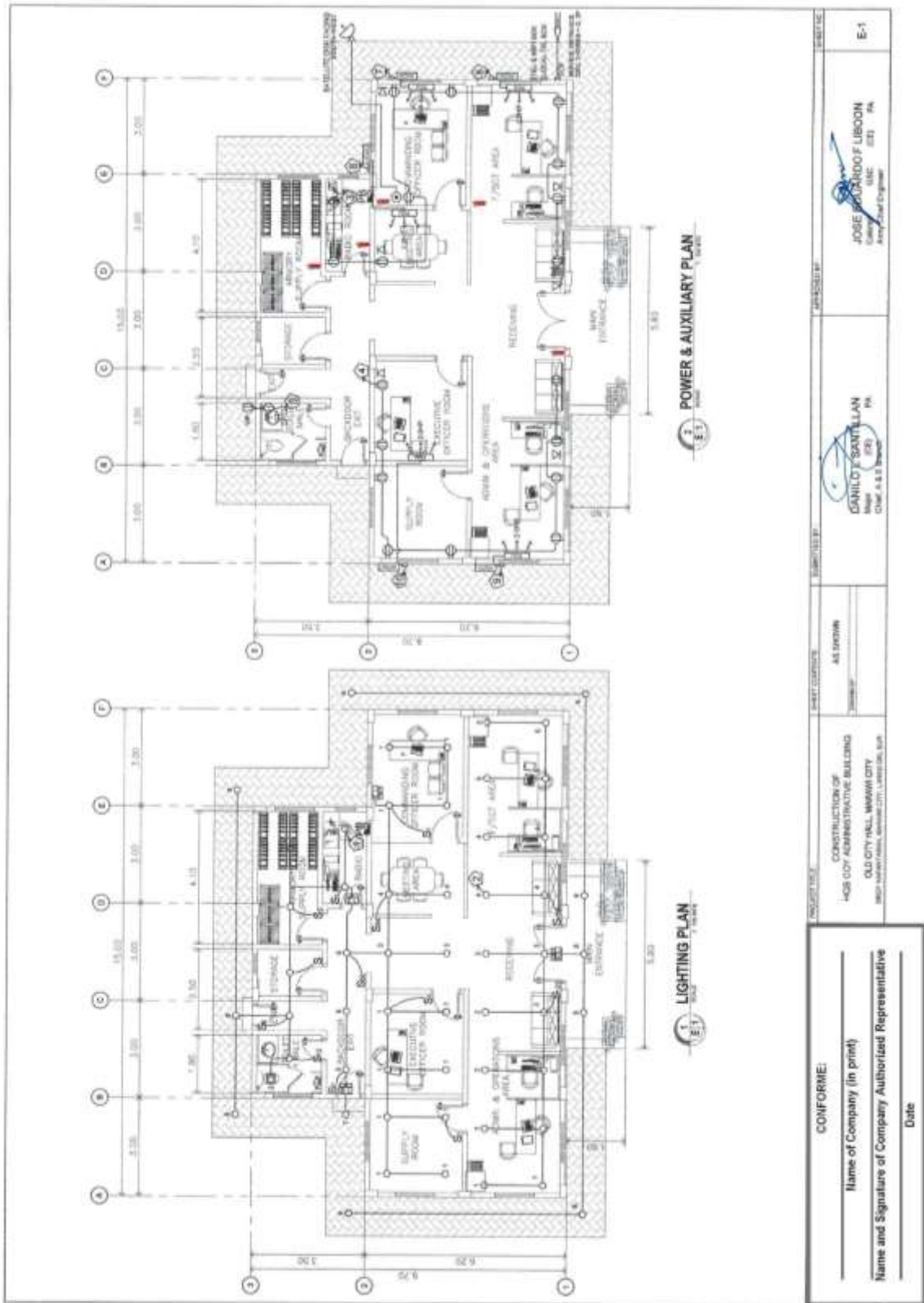
APPROVED BY:  JOSE EDUARDO F. LIBOON
Chief, ESC, PA
 Army Chief Engineer

APPROVED BY:  DARWIN SANTILLAN
Major, ESC, PA
 Chief, A & E Section

PAGE NO: P-5

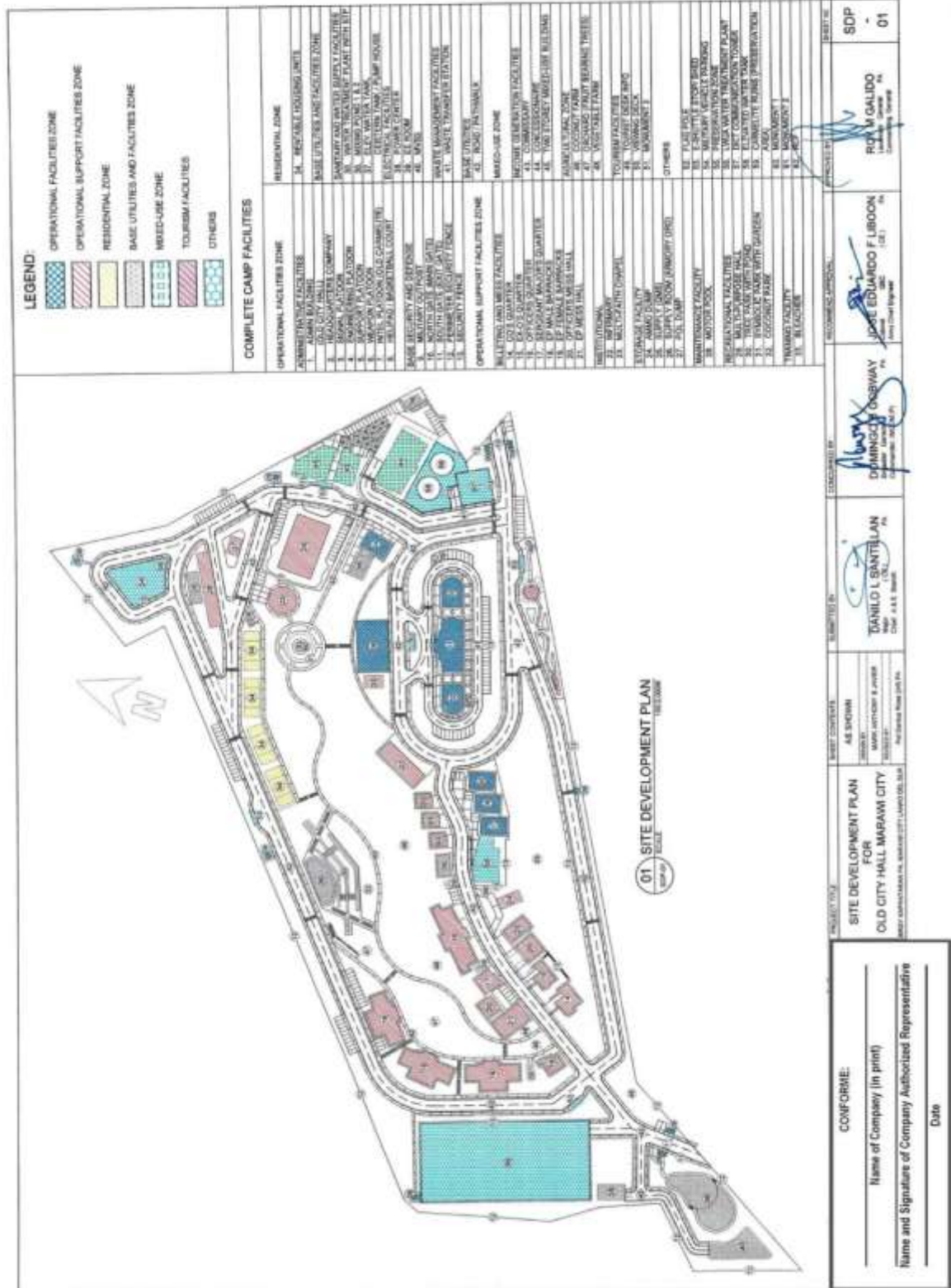
(Page 20/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



(Page 22/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



(Page 23/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

1 PERSPECTIVE
SCALE: A-1

2 VICINITY MAP
SCALE: A-1

3 LOCATION MAP
SCALE: A-1

4 SITE LOCATION PLAN
SCALE: 1:500

PROJECT TITLE	CONSTRUCTION OF 2-STORY GUARD POST OLD CITY HALL, MARAWI CITY BRGY. KAPANTARAN, MARAWI CITY, LANA DEL SUR	SUBMITTER	AS SHOMAN P/O: Captain Romeo SUTON	DESIGNED BY	DANILLO L. SANTILLAN M.Arch. (1981) Arch. (1981)	APPROVED BY	ROY W. GALILDO Civil Engineer (1984) Professional Engineer No. 0000000000	SHEET NO.	A-01
PROJECT NO.		DATE		CHECKED BY	DENNIS J. GORWAY M.Arch. (1981) Arch. (1981)	DATE			
PROJECT NO.		DATE		DESIGNED BY	JOSE EDUARDO F. LIBRON M.Arch. (1981) Arch. (1981)	DATE			

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

(Page 24/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

1 GROUND FLOOR PLAN
SCALE: 1/8"=1'-0"

2 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

3 ROOF PLAN
SCALE: 1/8"=1'-0"

PROJECT TITLE: CONSTRUCTION OF FACTORY GUARD POST OLD CITY HALL, MARAWI CITY, LANAO DEL SUR

DATE: 08/15/2018

DESIGNED BY: CARLOS C. BRILLAN

CHECKED BY: EDUARDO F. LIBRON

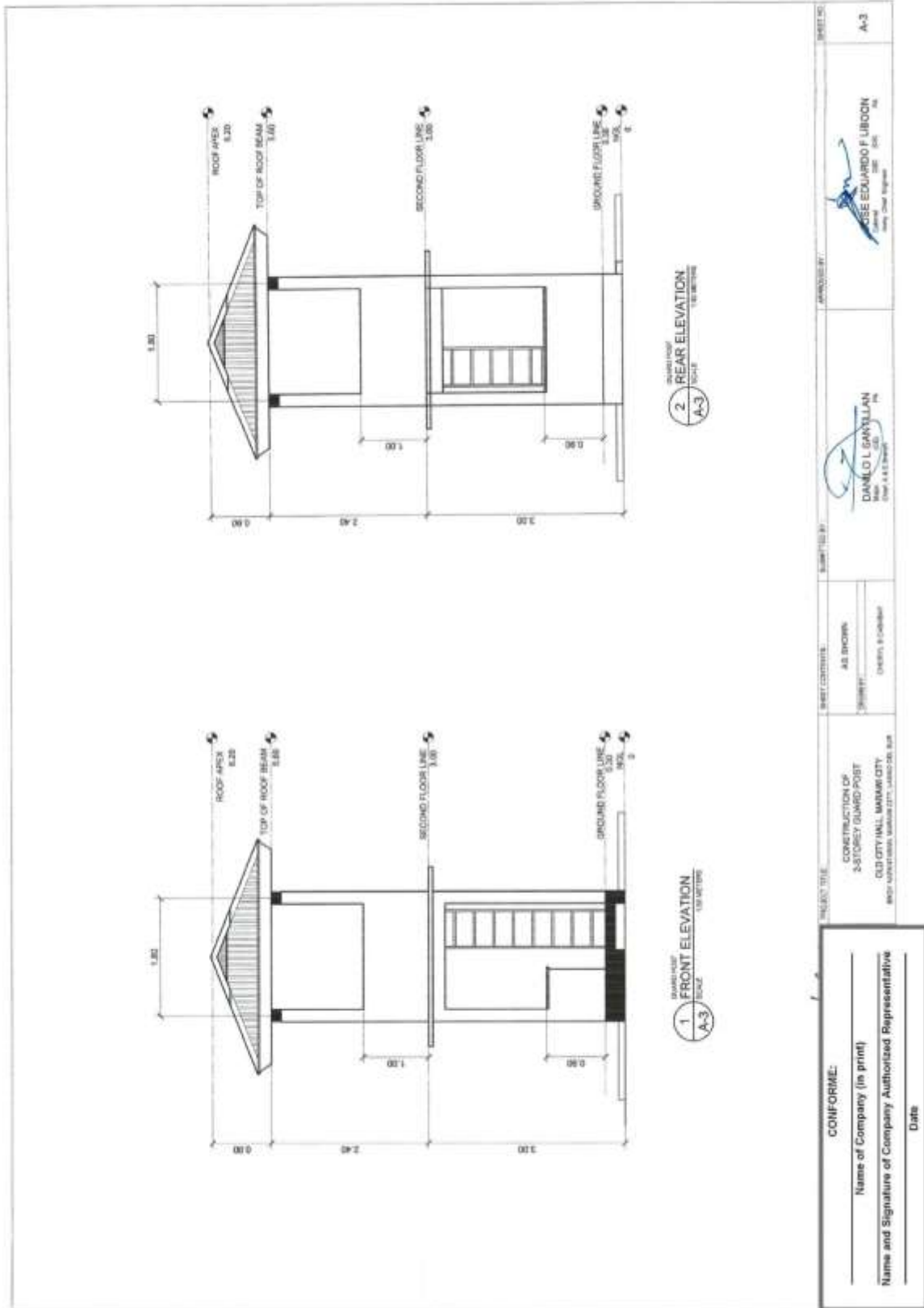
SCALE: AS SHOWN

PROJECT NO.: CHRYL S-C-00007

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

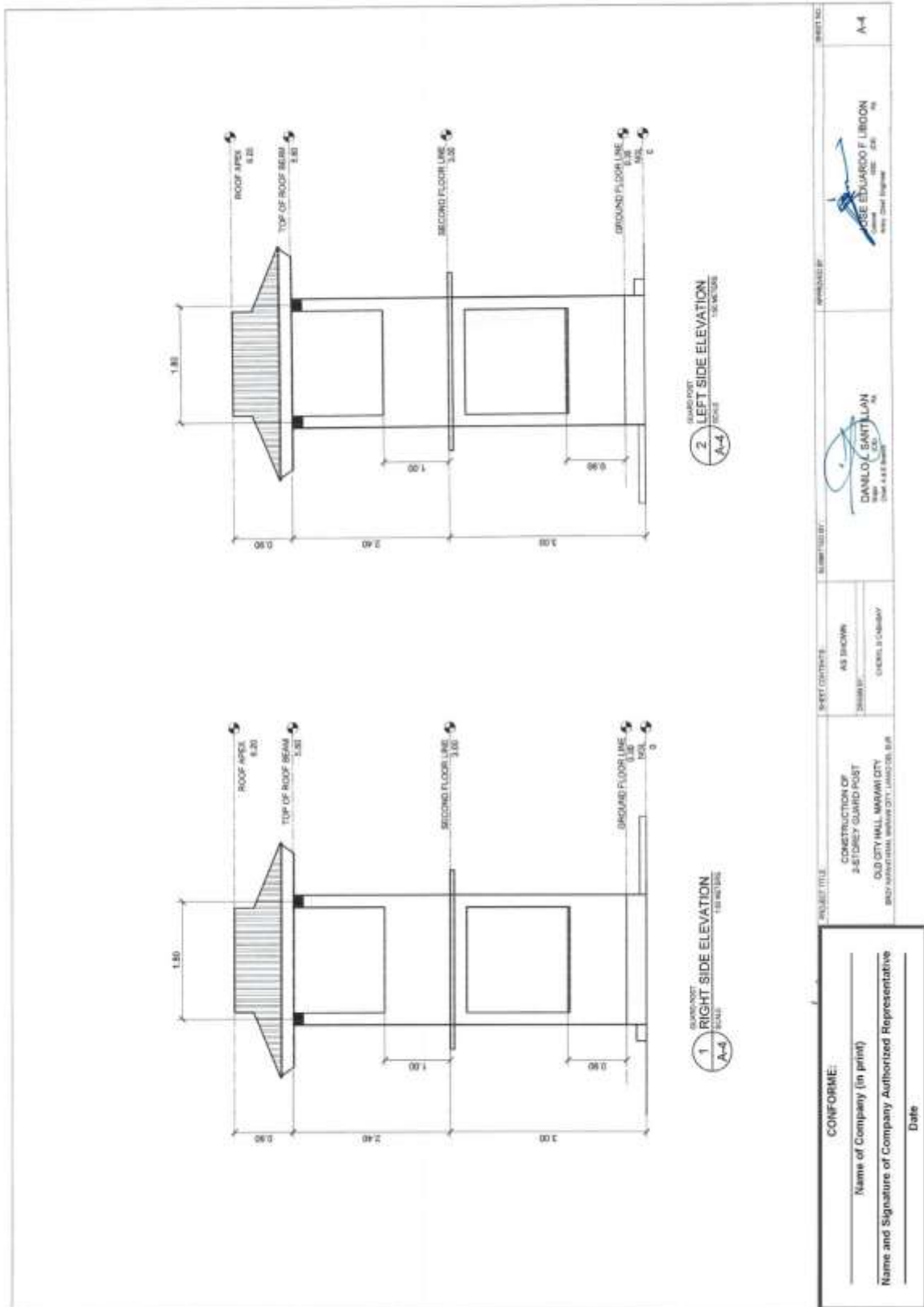
(Page 25/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



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**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



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Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24

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 DEPRESSINGS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DOORS, ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND CLEARANCES 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 IS BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (98S EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC 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 EDITIONS 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 CURBS, SILLS, STOOLS, 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 DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF THEORY LOAD (28) DAYS W/ CORRESPONDING MINIMUM 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)	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
WALLS OVER EXISTING CONCRETE	30mm
WALLS AGAINST EXISTING CONCRETE	40mm
BEAM STEELING AND COLUMN TIES	40mm
WHERE CONCRETE IS EXPOSED TO	50mm
EMBS BUT POLISHED AGAINST FORMS	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75mm

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

TYPICAL CONNECTION DETAIL OF MASONRY WALL

CORNER WALL

INTERSECTION WALL

OPENING OR END WALL

INTERSECTING R.C. COLUMN OR WALL

NOTES ON FOOTINGS

- FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL 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 30mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

TYP. DET. OF UNTEL BEAM AT CHB WALL OPENING

SECTION

PROJECT TITLE
CONSTRUCTION OF 3-FLOORY GUARD POST OLD CITY HALL MARAWI CITY
BID NO. 016-24

DESIGNER
AS BROWN

DATE
2018.11.13

SCALE
AS SHOWN

PROJECT NO.
016-24

CONFORME:

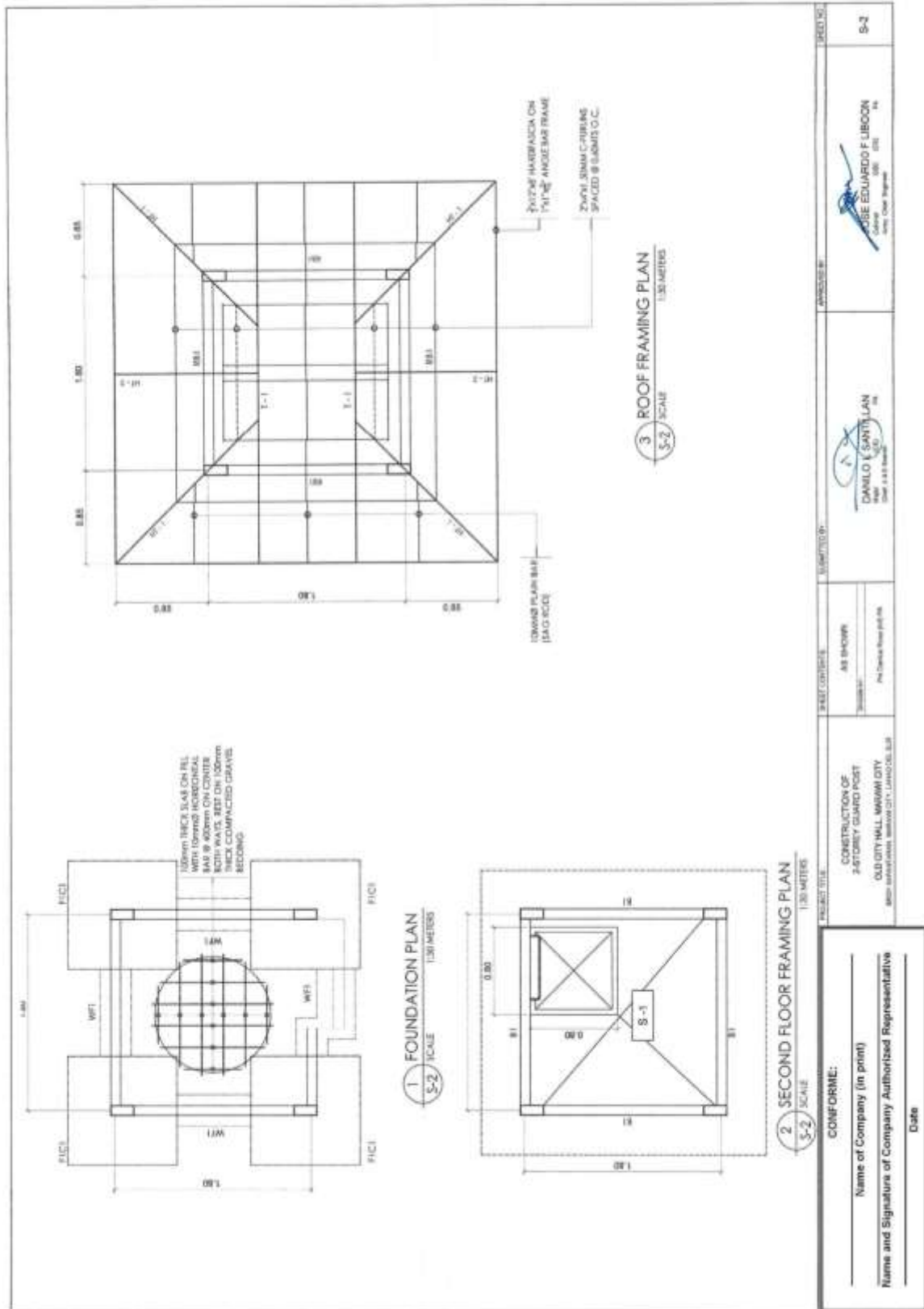
Name of Company (in print)

Name and Signature of Company Authorized Representative

Date

(Page 28/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

2 TYPICAL SECTION DETAIL OF BEAM
SCALE: 1:25 METERS

SCHEDULE OF R.C. BEAM

BEAM MARK	STEEL REINFORCEMENT				STIRRUPS SPACING
	b ₁ (mm)	b ₂ (mm)	A, A ₁ (mm ²)	B, B ₁ (mm ²)	
B1	300	300	2-12mm ²	2-12mm ²	280mm, 280mm, REST 150mm O.C.
B2	150	300	2-12mm ²	2-12mm ²	280mm, 280mm, REST 150mm O.C.

FOOTING SCHEDULE

MARK	BOTTOM BARS REINFORCEMENT		L-BARS
	B (mm)	L (mm)	
F1	1,000	1,000	4-12mm ²

SCHEDULE OF R.C. COLUMN

MARK	SIZE (mm)	CORNER	
		C1	C2
2ND FLOOR TO 2ND FLOOR	300 x 300	4-12mm ²	4-12mm ²
FOUNDATION TO 2ND FLOOR	400 x 400	4-12mm ²	4-12mm ²

1 FOOTING AND COLUMN
SCALE: 1:25 METERS

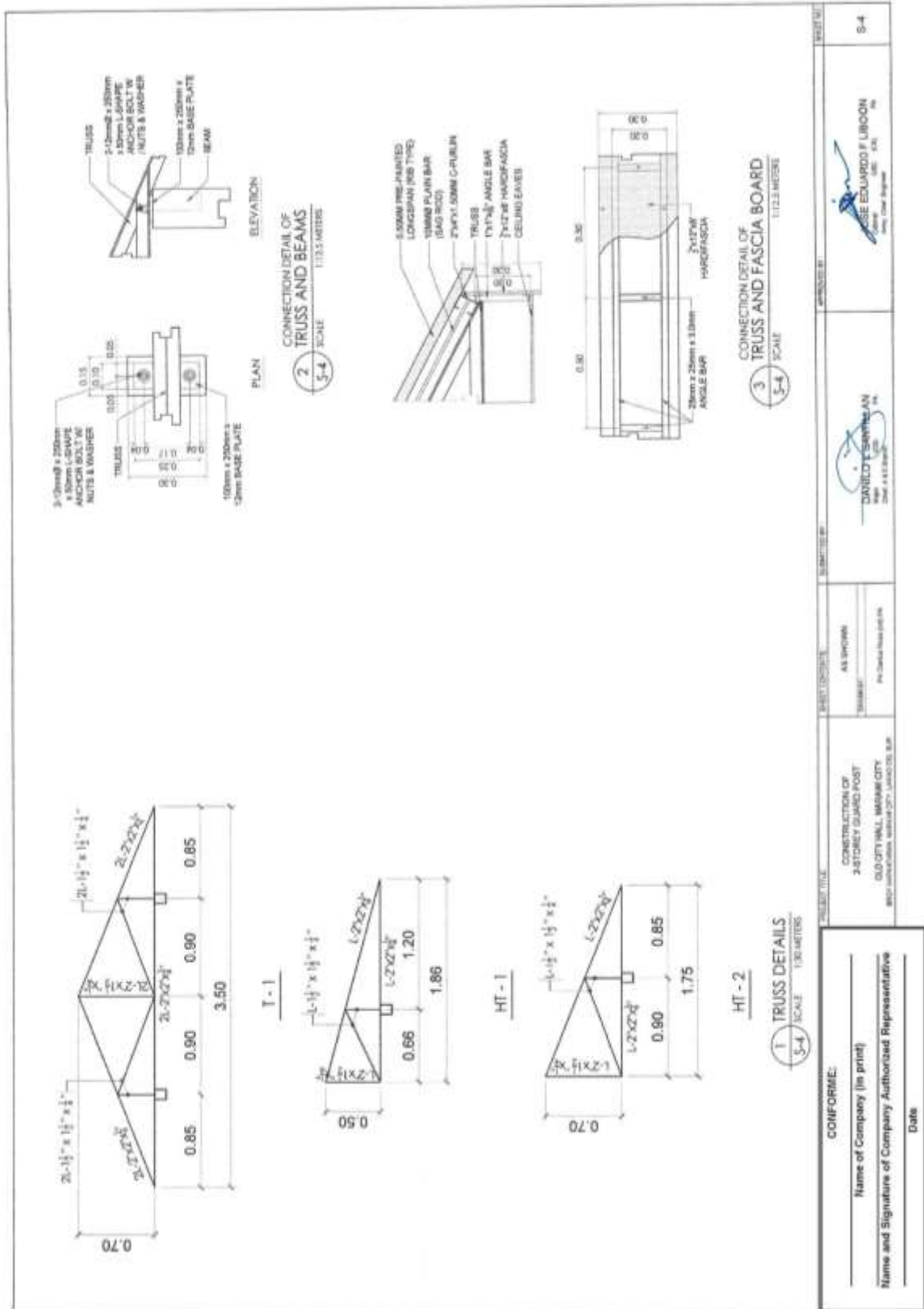
3 SECTION DETAIL OF WALL FOOTING AND TIE BEAM
SCALE: 1:25 METERS

4 SLAB DETAILS
SCALE: 1:100 METERS

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

TITLE BLOCK:
PROJECT TITLE: CONSTRUCTION OF 2-STORY GUARD POST
SUBJECT: OLD CITY HALL, MARAWI CITY
PROJECT LOCATION: MARAWI CITY, LANAOS DEL SUR
AS SHOWN
PREPARED BY: DANIEL L. SANTIAGO
CHECKED BY: EDUARDO F. LUBON
SCALE: 1:100 METERS

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24



<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 2-STORY GUARD POST OLD CITY HALL, MARAWI CITY</p> <p>PROJECT LOCATION: National City, Lanao Del Sur</p>	<p>SHEET DESCRIPTION</p> <p>AS SHOWN</p> <p>PROJECT NO. 2016-016-24</p>	<p>SUBMITTED BY</p> <p>DAVID T. SERRANO Civil Engineer No. 18-016-24</p>	<p>APPROVED BY</p> <p>JOSE EDUARDO F. LIBON Civil Engineer No. 18-016-24</p>	<p>SHEET NO.</p> <p>S-4</p>
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Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
 Bid Ref. No. ENG'G PABAC3 016-24

SAFETY BREAKER (SB) SCHEDULE OF LOADS

SB SCHEDULE OF LOADS: 20A1700AF-10CB, 10PAC, 2PST, 20V, 20HZ, 3P, ROL-T-OR TYPE IN NEMA 3R ENCLOSURE

LOAD DESCRIPTION	V.A.	AMPS	WIRE SIZE	TYPE
LIGHTING OUTLET + CORN. OUTLET	800	3.63	10	10
TOTAL	800 VA	3.63 AMPS		

TOTAL CURRENT I_T = 2.43 A, OVERC.P. = 2.43 AMPS.

WIRE PROTECT. LINC. - USE 2.0MM² THIN WIRE (0) IN 20MMØ UPVC PIPE

MIN. SAFETY CLEARANCE: 1.5M (TOP OF SB), 1.0M (SIDE OF SB), 0.5M (FRONT OF SB)

LEGEND

	LED BULB IN PVC PLASTIC RECEPTACLE
	LED FLOOD LIGHT: 100 WATT, 1000 LUMEN
	SERVICE ENTRANCE, TEL. WPT
	CIRCUIT BREAKER
	PANEL BOARD (PST) IN NEMA ENCLOSURE
	TELEPHONE OUTLET
	WEATHER PROOF DOWN OUTLET/DRAIN
	TWO GANG SWITCH, ALUMINUM
	POWER SERVICE ENTRANCE 2P
	TELEPHONE SERVICE ENTRANCE
	TELEPHONE BOX

SECOND FLOOR LIGHTING PLAN

SECOND FLOOR POWER PLAN

GROUND FLOOR LIGHTING PLAN

GROUND FLOOR POWER PLAN

POWER RISER DIAGRAM

USE: 2.0MM² THIN WIRE + 1.2MM² THIN WIRE (0) IN 20MMØ UPVC PIPE

SINGLE LINE DIAGRAM

TELEPHONE RISER DIAGRAM

PROJECT TITLE: CONSTRUCTION OF 2-STORY GUARD POST OLD CITY HALL, MARAWI CITY, LANAO DEL SUR

PROJECT TYPE: AS SHOWN

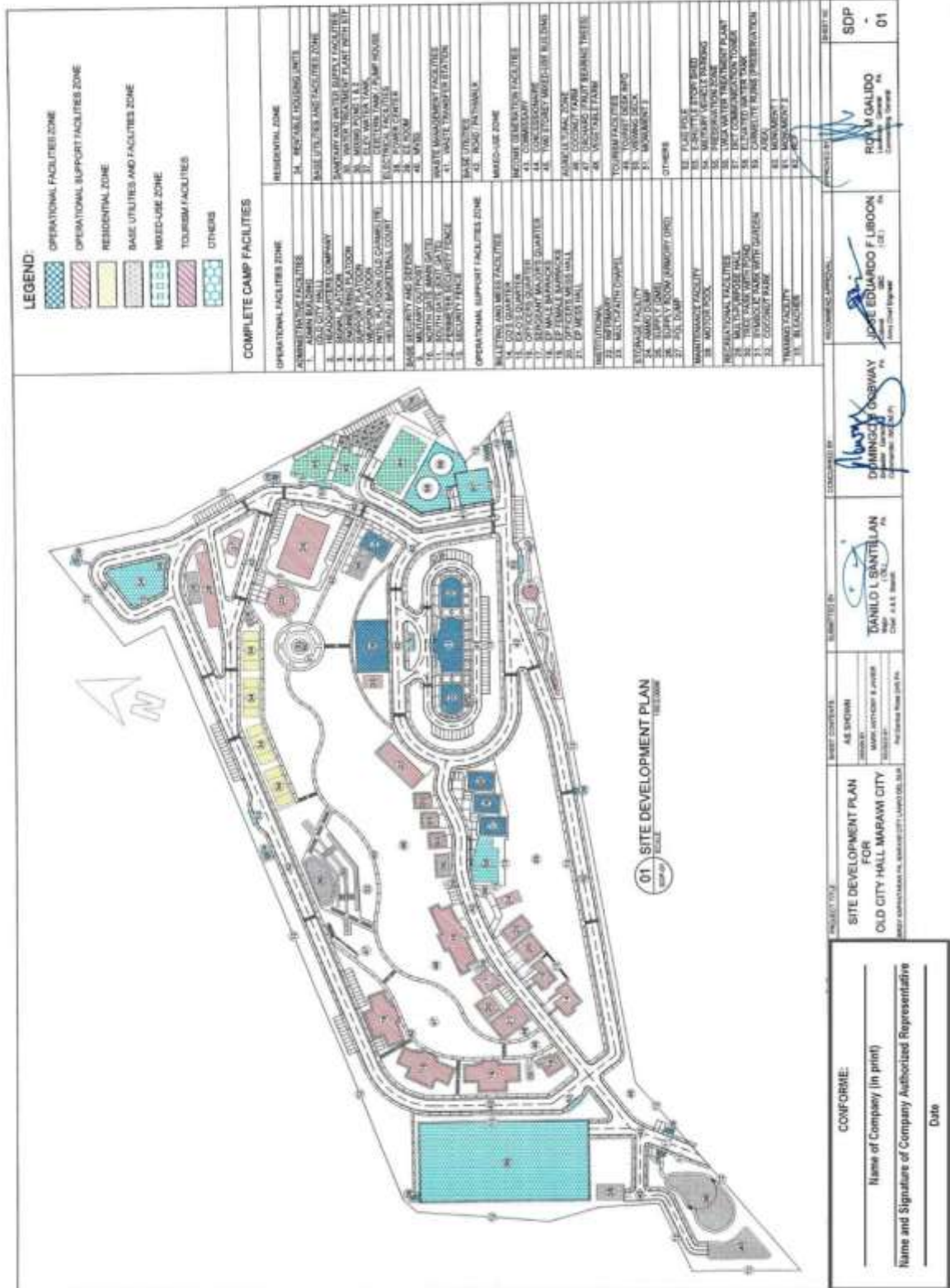
DESIGNER: DANILLO SANTILLAN, Major, A.S.E. Branch

CLIENT: ARMY CORP. ENGINEER: ERIC EDUARDO F. LIBCOON, Colonel, A.S.E. Branch

DATE: _____

(Page 32/46)

**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



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**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**

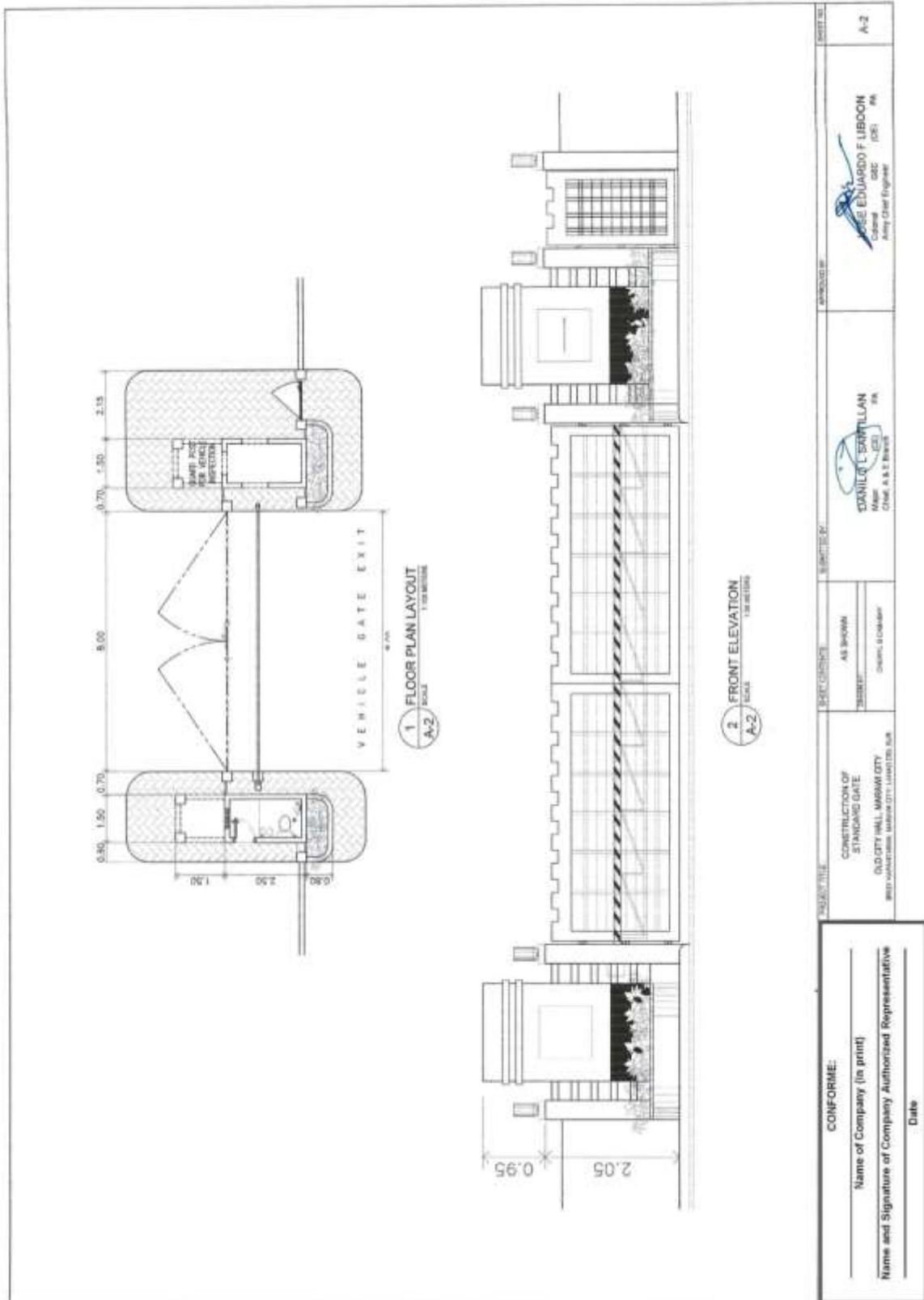
The drawing set includes four main components:

- 1 PERSPECTIVE (A-1):** A 3D rendering of a standard gate with two pillars, a central archway, and a paved road leading through it.
- 2 VICINITY MAP (A-1):** A map showing the project site's location relative to surrounding areas like 'THE SITE', 'PARKING', and 'ROAD'.
- 3 LOCATION MAP (A-2):** A detailed site plan showing the layout of the gate, walkways, and landscaping.
- 4 SITE LOCATION PLAN (A-1):** A plan showing the gate's placement within a larger site context, including a north arrow.

<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 STANDARD GATE OLD CITY HALL, MARAWI CITY Brgy. Kapantaran, Marawi City, Lanao Del Sur</p>	<p>DESIGNED BY:</p> <p>ALL INCHON</p>	<p>CHECKED BY:</p> <p>DANILLO L. SANTILLAN Professional Engineer (PE) No. 010-010-010-010</p>	<p>APPROVED BY:</p> <p>DOMINGO F. BICWAY Professional Engineer (PE) No. 010-010-010-010</p>	<p>REVISIONS:</p> <p>JAY E. EDUARDO F. LIBON Professional Engineer (PE) No. 010-010-010-010</p>	<p>DATE:</p> <p>ROY/M GALLO Professional Engineer (PE) No. 010-010-010-010</p>	<p>PROJECT NO.:</p> <p>A-01</p>
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**Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24**



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Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24

1 REAR ELEVATION
A-3

CONFORME: Name of Company (in print) Name and Signature of Company Authorized Representative Date	PROJECT TITLE: CONSTRUCTION OF STANDARD GATE OLD CITY HALL, MARAWI CITY Brgy. Kapantaran, Marawi City, Lanao Del Sur	DATE: AS SHOWN CHECKED: [Signature] DATE: [Date]	DESIGNED BY: DANILLO C. BARTILLAN Rear (SE) Chief & R.E. Branch	APPROVED BY: [Signature] JOSE EDUARDO F. LIBONIN Colonel (SE) Army Chief Engineer	SCALE: A-3
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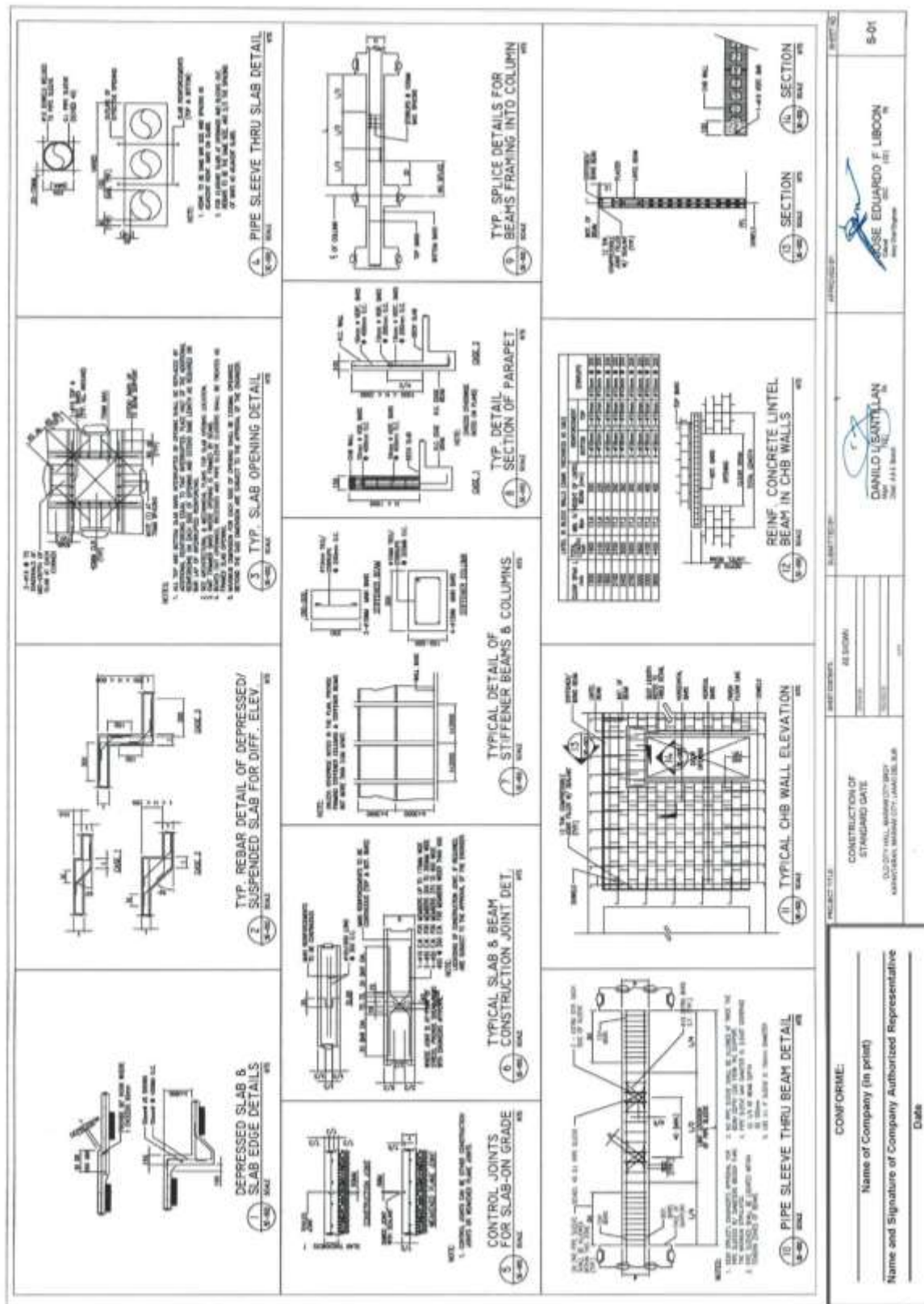
(Page 36/46)

Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot) Bid Ref. No. ENG'G PABAC3 016-24

<p>GENERAL NOTES:</p> <p>1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE NATIONAL BUREAU OF FIRE PROTECTION AND SAFETY (NBFPS) BEFORE COMMENCING WORK.</p> <p>2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.</p> <p>3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.</p> <p>4. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>5. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>6. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>7. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>8. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>9. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>10. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p>	<p>11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE NATIONAL BUREAU OF FIRE PROTECTION AND SAFETY (NBFPS) BEFORE COMMENCING WORK.</p> <p>12. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.</p> <p>13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.</p> <p>14. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>15. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>16. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>17. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>18. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>19. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>20. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p>	<p>21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT AND THE NATIONAL BUREAU OF FIRE PROTECTION AND SAFETY (NBFPS) BEFORE COMMENCING WORK.</p> <p>22. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.</p> <p>23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.</p> <p>24. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>25. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>26. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>27. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>28. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>29. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p> <p>30. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES TO BE SAFE AND SOUND FOR THE VISITATION OF THE GENERAL PUBLIC.</p>																																																
<p>LAP SPLICE & ANCHORAGE LENGTH TABLE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Bar Size</th> <th>Development Length (L_d)</th> <th>Lap Splice Length (L_s)</th> <th>Minimum Anchorage Length</th> </tr> </thead> <tbody> <tr> <td>10mm</td> <td>350mm</td> <td>450mm</td> <td>300mm</td> </tr> <tr> <td>12mm</td> <td>420mm</td> <td>540mm</td> <td>360mm</td> </tr> <tr> <td>14mm</td> <td>490mm</td> <td>630mm</td> <td>420mm</td> </tr> <tr> <td>16mm</td> <td>560mm</td> <td>720mm</td> <td>480mm</td> </tr> <tr> <td>18mm</td> <td>630mm</td> <td>810mm</td> <td>540mm</td> </tr> <tr> <td>20mm</td> <td>700mm</td> <td>900mm</td> <td>600mm</td> </tr> <tr> <td>22mm</td> <td>770mm</td> <td>990mm</td> <td>660mm</td> </tr> <tr> <td>24mm</td> <td>840mm</td> <td>1080mm</td> <td>720mm</td> </tr> <tr> <td>26mm</td> <td>910mm</td> <td>1170mm</td> <td>780mm</td> </tr> <tr> <td>28mm</td> <td>980mm</td> <td>1260mm</td> <td>840mm</td> </tr> <tr> <td>30mm</td> <td>1050mm</td> <td>1350mm</td> <td>900mm</td> </tr> </tbody> </table>			Bar Size	Development Length (L _d)	Lap Splice Length (L _s)	Minimum Anchorage Length	10mm	350mm	450mm	300mm	12mm	420mm	540mm	360mm	14mm	490mm	630mm	420mm	16mm	560mm	720mm	480mm	18mm	630mm	810mm	540mm	20mm	700mm	900mm	600mm	22mm	770mm	990mm	660mm	24mm	840mm	1080mm	720mm	26mm	910mm	1170mm	780mm	28mm	980mm	1260mm	840mm	30mm	1050mm	1350mm	900mm
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Construction of Operational Facilities for Old City Hall Marawi City at Brgy. Kapantaran, Marawi City, Lanao Del Sur (1 Lot)
Bid Ref. No. ENG'G PABAC3 016-24



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

PROJECT TITLE: CONSTRUCTION OF STAIRWELL GATE
 OLD CITY HALL, MARAWI CITY, LANA DEL SUR
 PROJECT NO.: 016-24

DESIGNED BY: DANILLO SANTIAGO
 2008 4414 Baccant

CHECKED BY: ROSE EDUARDO F. LEBRON
 2008 4414 Baccant

DATE: 15/05/2017

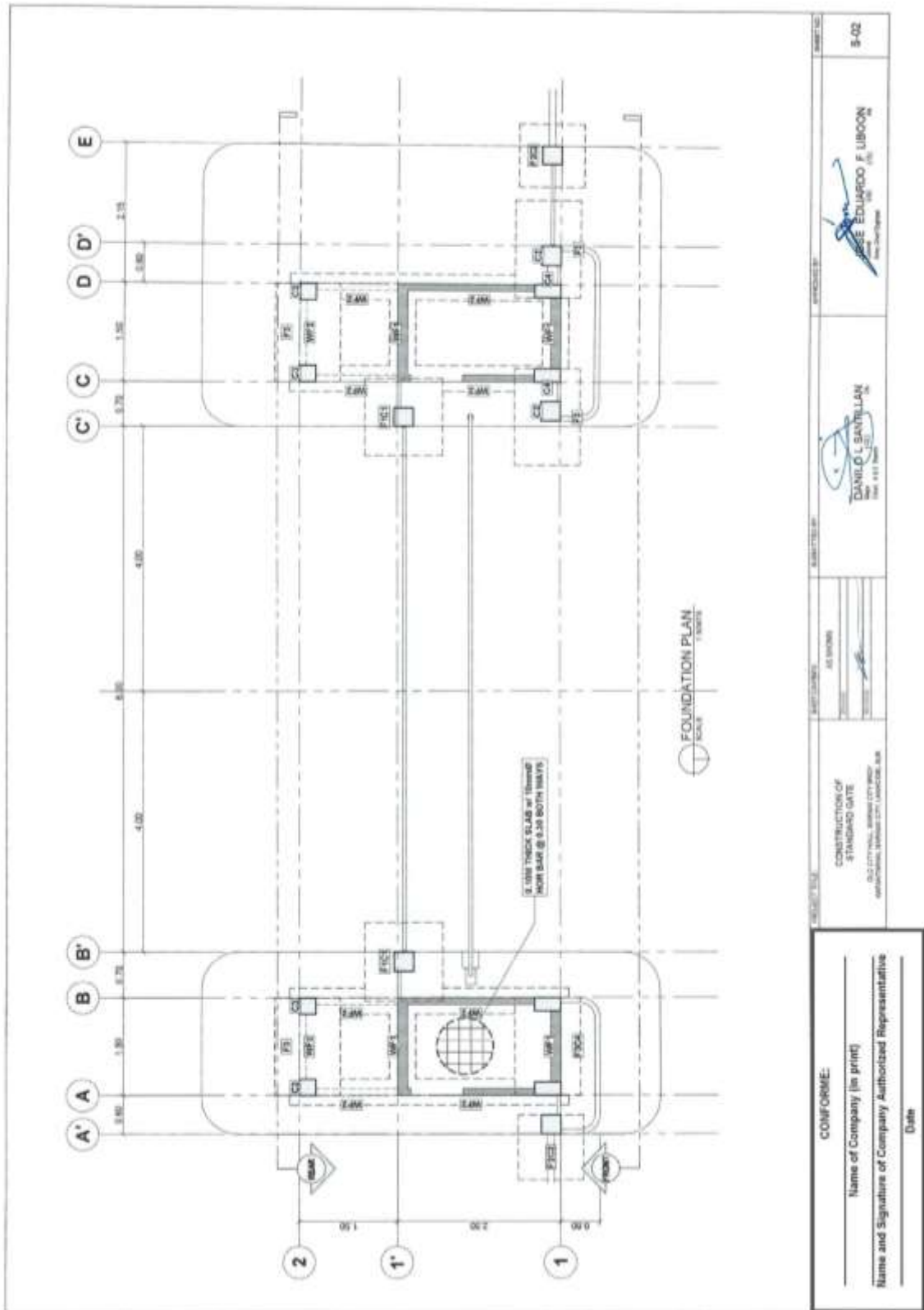
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PROJECT NO.: 016-24

PROJECT TITLE: CONSTRUCTION OF STAIRWELL GATE
 OLD CITY HALL, MARAWI CITY, LANA DEL SUR
 PROJECT NO.: 016-24

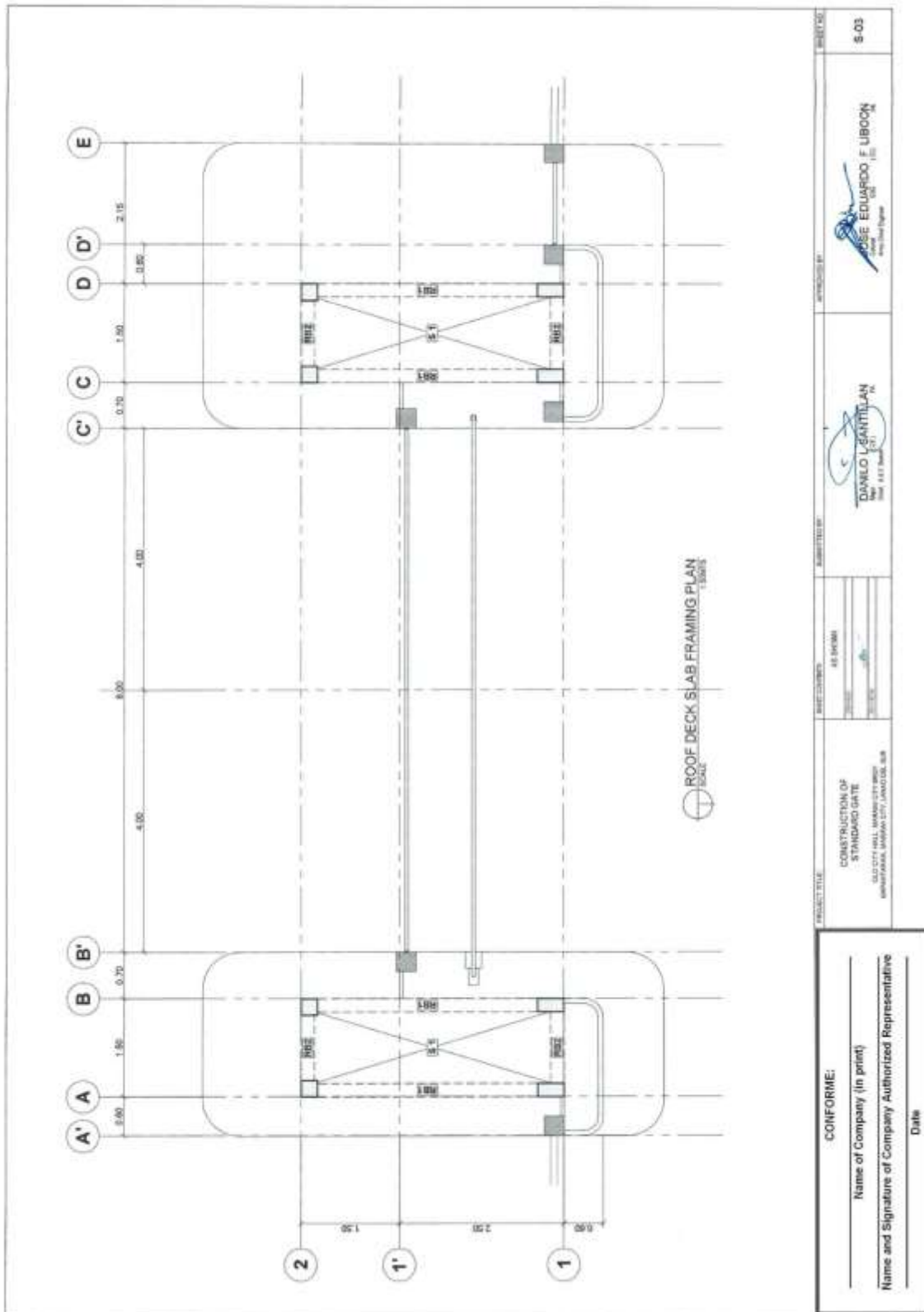
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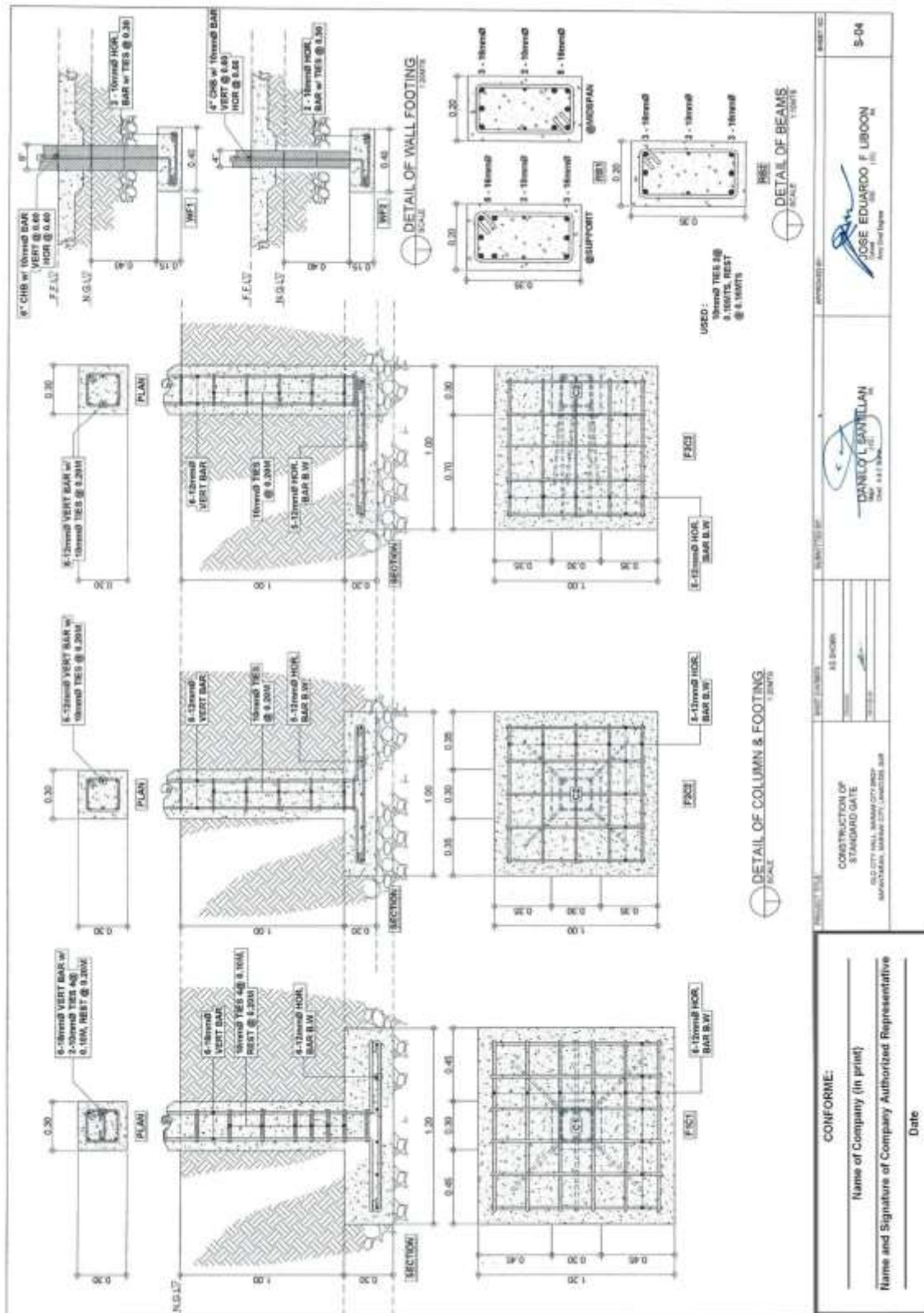


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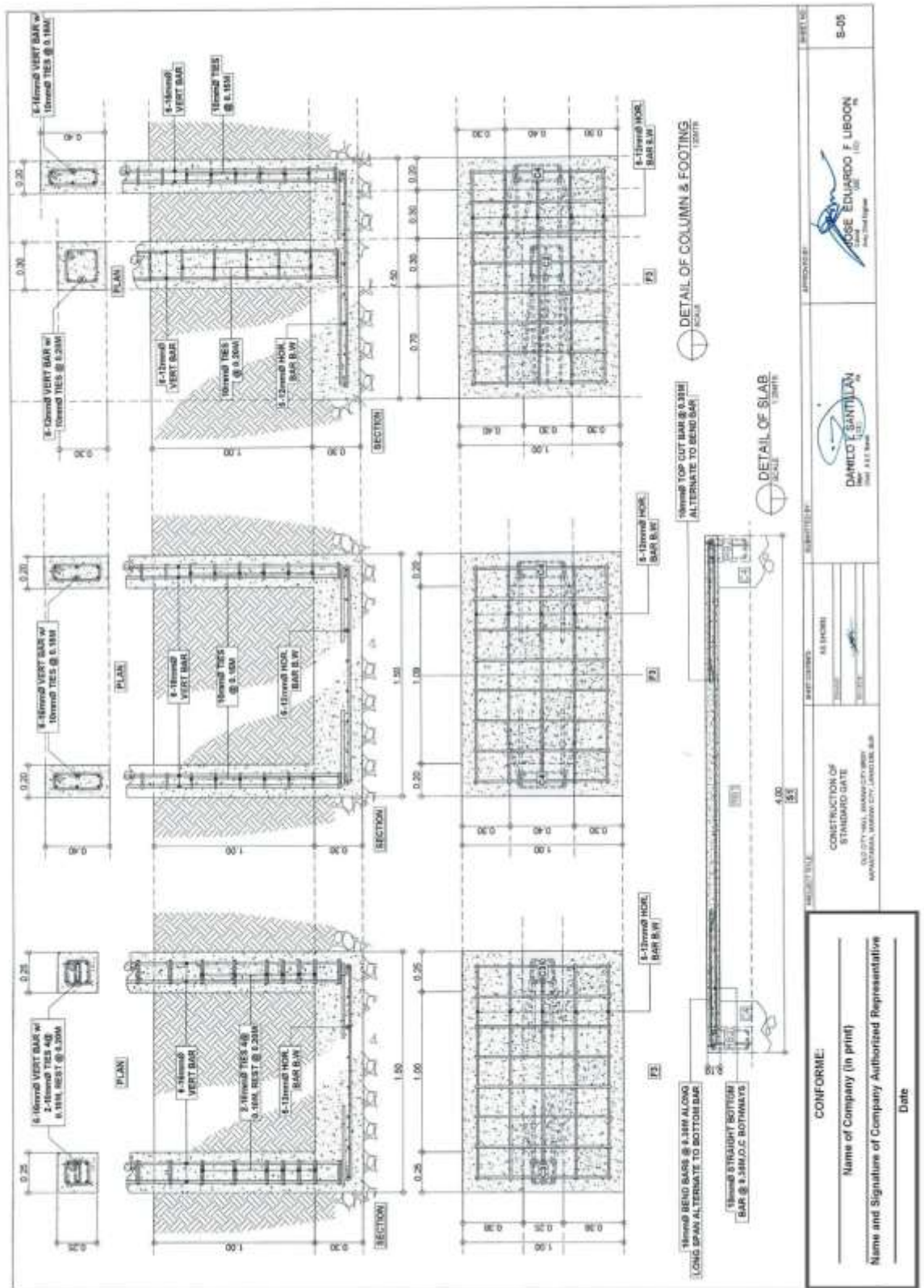
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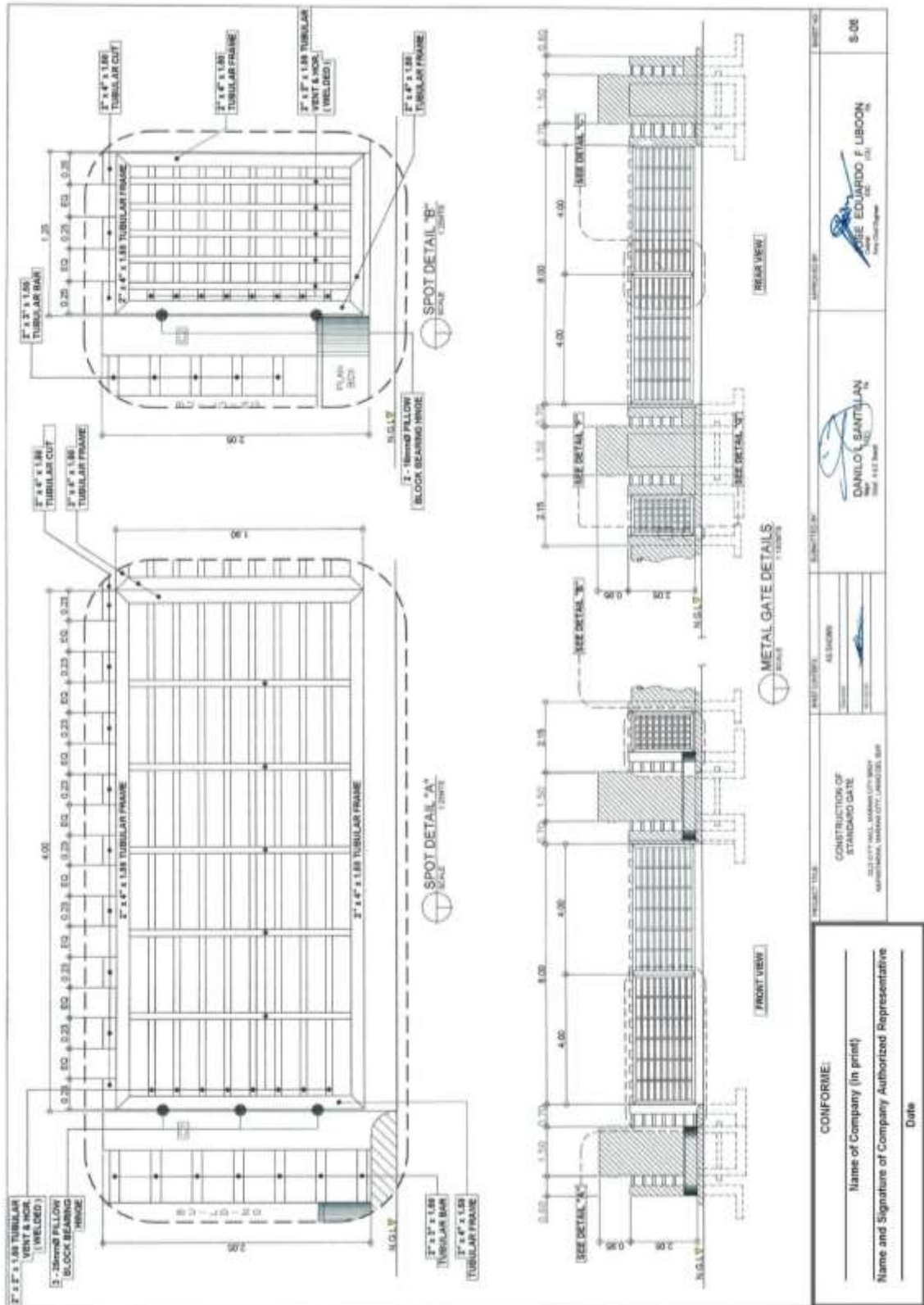


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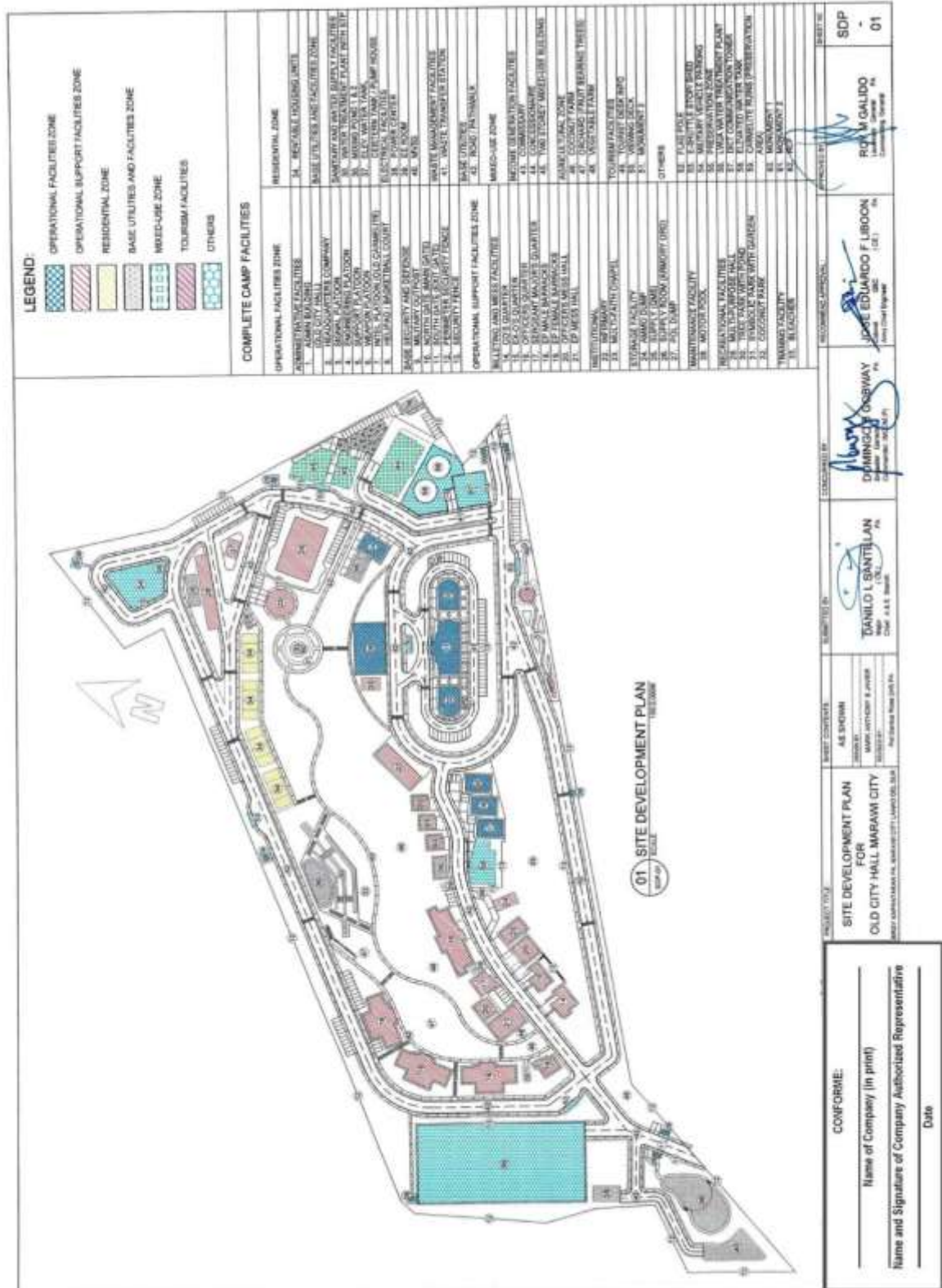


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