

Section VII. Drawings

Nr	Description	ABC (PhP)	Page
1	Construction of One (1) Unit Perimeter Fence for 155mm SP Howitzer Facilities at HAAR, PA	7,020,552.69	1-4
2	Construction of One (1) Unit Water System for 155mm SP Howitzer Facilities at HAAR, PA	4,898,203.00	5-7
3	Construction of One (1) Unit Electrical System for 155mm SP Howitzer Facilities at HAAR, PA	6,151,736.60	8-12
4	Construction of Three (3) Units Classroom for 155mm SP Howitzer Facilities at HAAR, PA	16,080,462.00	13-29
	Total ABC (PhP)	34,150,954.29	

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Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23

1
A-1

EXTERIOR PERSPECTIVE
SCALE

DESIGNER	AS SHOWN	SUBMITTED BY	RECOMMENDED APPROVAL	APPROVED BY	DATE
ARR PA	AS SHOWN	DANILLO L. BONTICAN ARR PA	EDUARDO F. JIRON ARR PA	NEMED S. BRANNER, JR. ARR PA	A-1

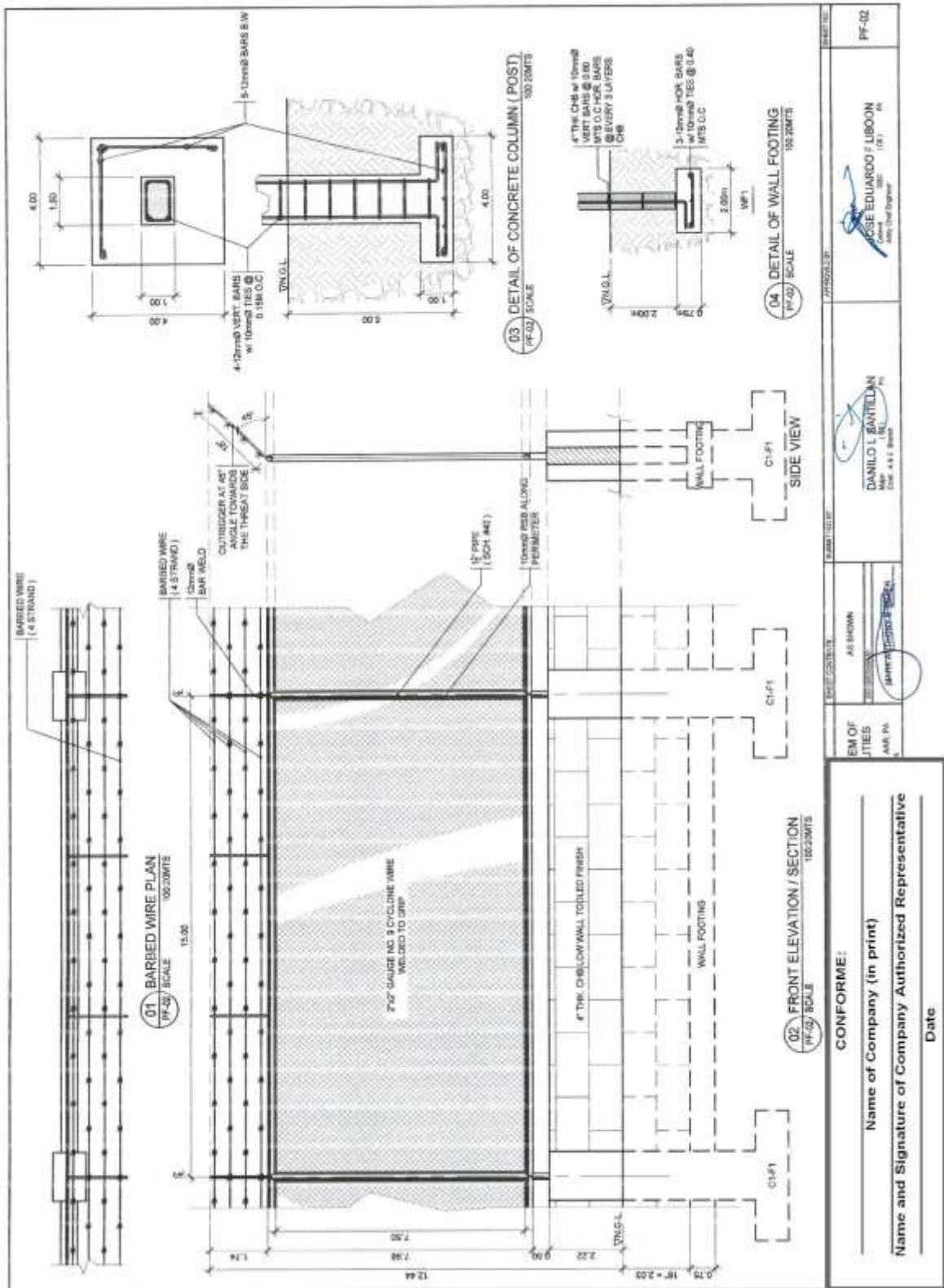
CONFORME:

 Name of Company (in print)

 Name and Signature of Company Authorized Representative

 Date

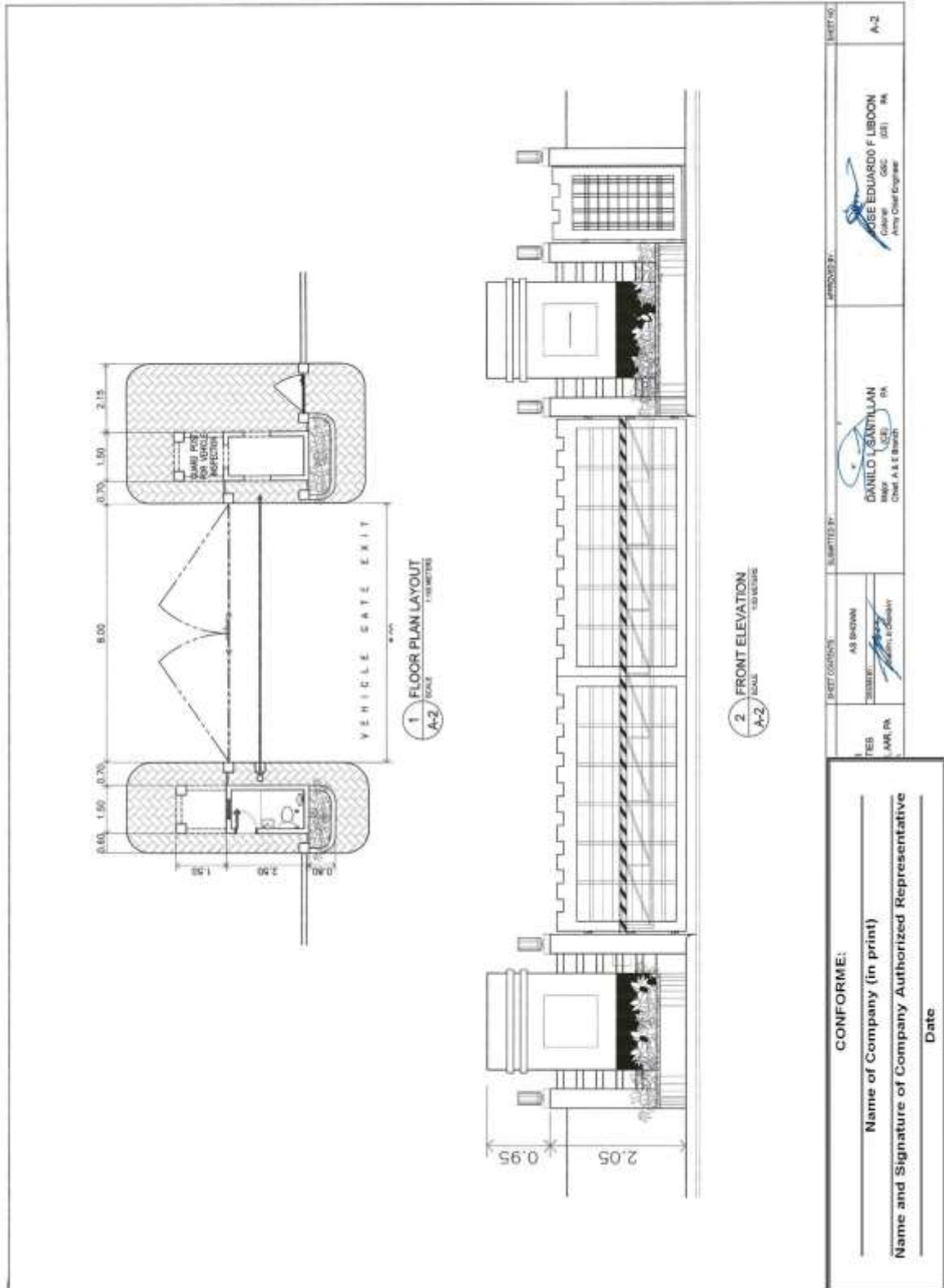
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
 Bid Ref. No. ENG'G PABAC3 020-23



PROJECT NO.	FF-02
PROPOSER	JOSE EDUARDO LIBONON Civil Engineer
DATE SUBMITTED	AS SHOWN
DATE OF JUDGEMENT	DANILO L. BANTELAN Civil Engineer
NAME OF JUDGES	AS SHOWN
NAME AND SIGNATURE OF COMPANY AUTHORIZED REPRESENTATIVE	AS SHOWN
DATE	AS SHOWN

(Page 03/29)

**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**



(Page 04/29)
**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

1 REAR ELEVATION
SCALE: 1/80

APPROVED BY: JOSE EDUARDO F. LIBOON
Colonel (SE) PA
Army Chief Engineer

SUBMITTED BY: DANILLO CASTELLANO
Major (SE) PA
Chief A.R.L. Section

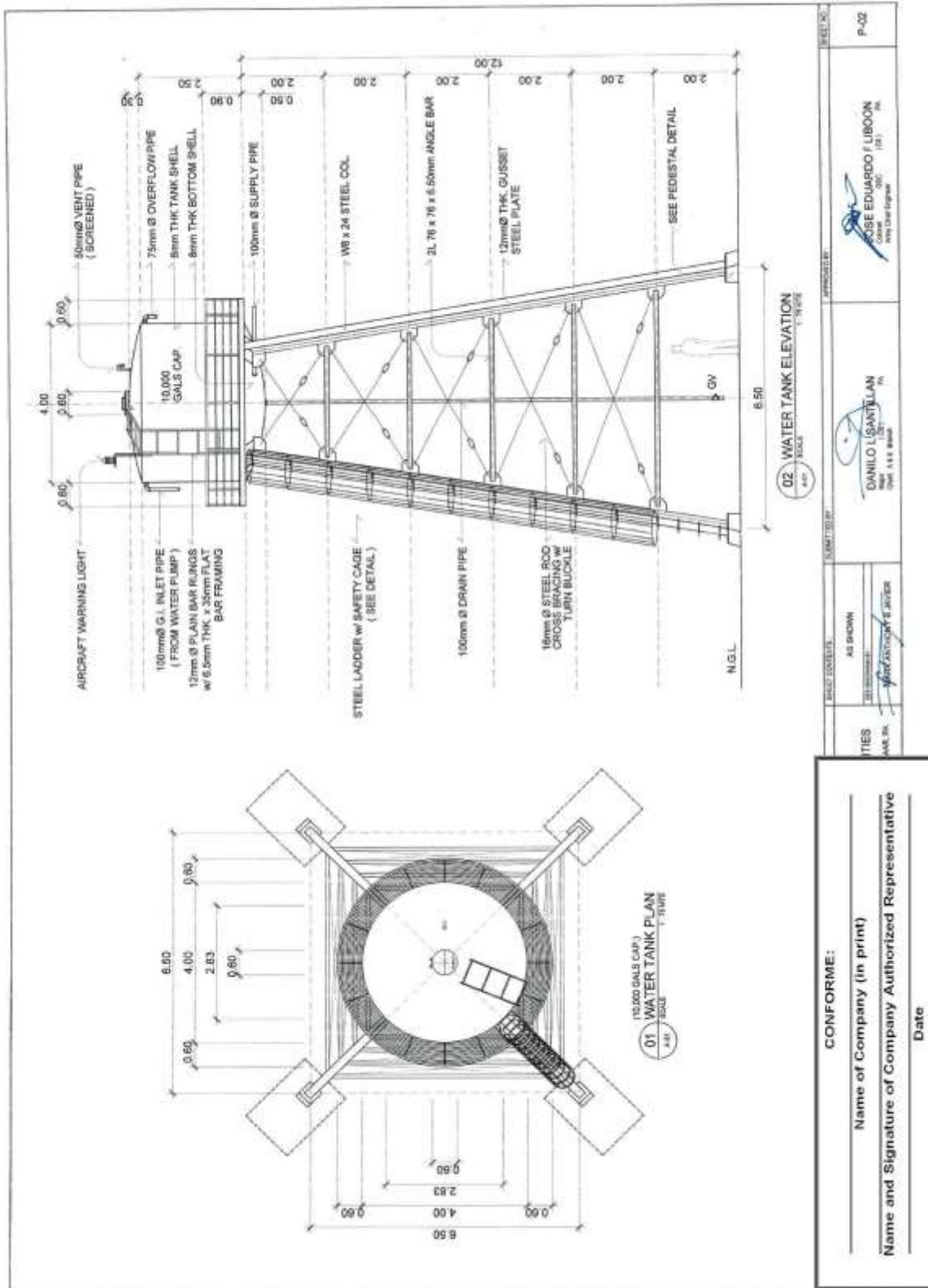
AS SHOWN
SUBMITTED BY: [Signature]

TITLE: AAR, PA

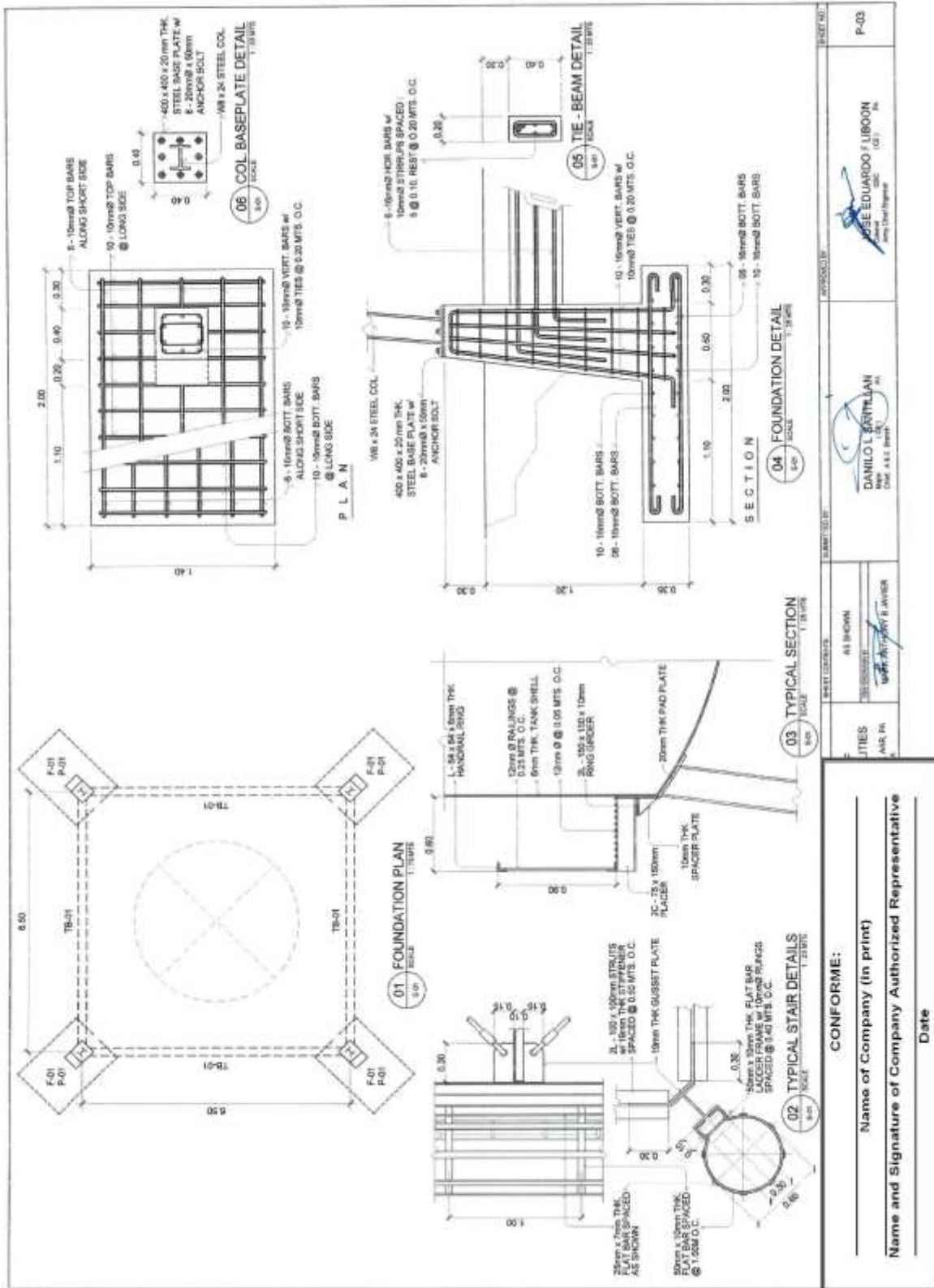
CONFORME:
Name of Company (in print)
Name and Signature of Company Authorized Representative
Date

(Page 05/29)

**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

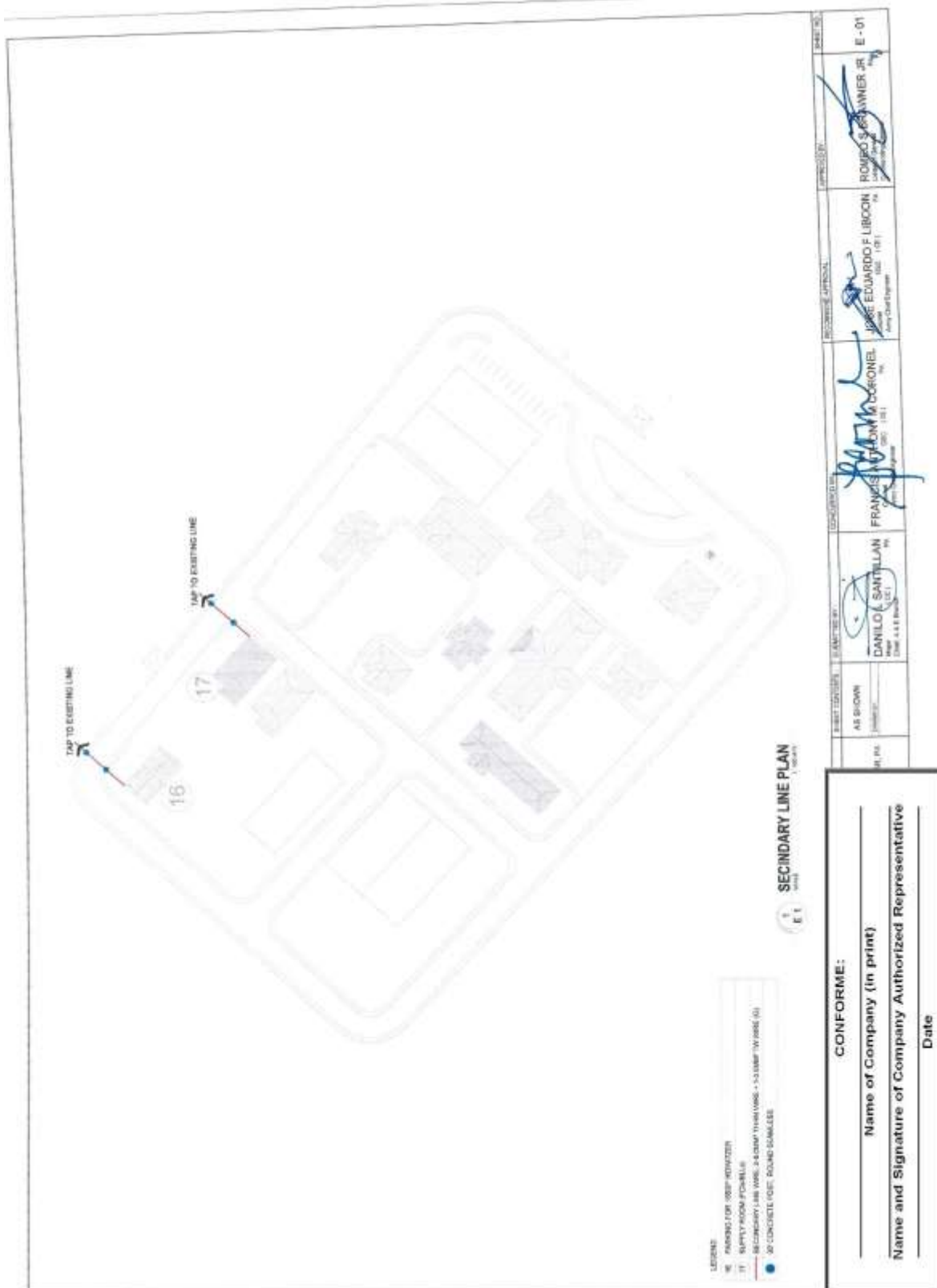


Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
 Bid Ref. No. ENG'G PABAC3 020-23



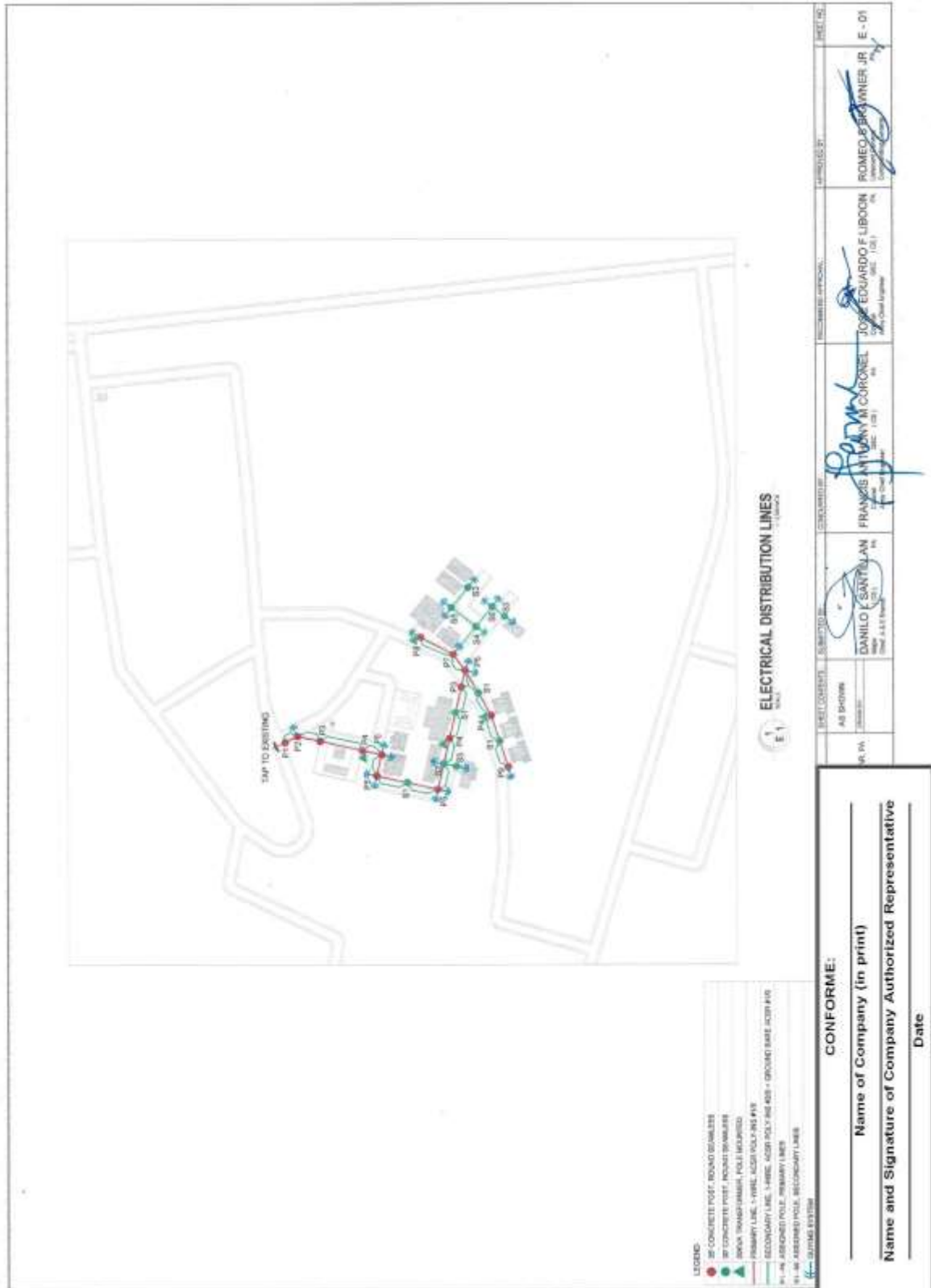
<p>CONFORME:</p> <p>Name of Company (in print)</p> <p>Name and Signature of Company Authorized Representative</p> <p>Date</p>		<p>AS SHOWN</p> <p>DANILO L. SERRILLAN</p> <p>REG. 488 (P)</p>	<p>REGISTERED</p> <p>JOSE EDUARDO T. LIBONON</p> <p>REG. 101 (P)</p>	<p>REGISTERED</p> <p>P-03</p>
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(Page 08/29)
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23



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Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
 Bid Ref. No. ENG'G PABAC3 020-23



PROJECT NO.	14-00103-PT
PROJECT NAME	CONSTRUCTION OF ELECTRICAL DISTRIBUTION LINES FOR THE 155MM SP HOWITZER AT FORT MAGSAYSAY, NUEVA ECIA
DESIGNED BY	FRANCIS ANTONIO M. CORONEL (PE, No. 128)
CHECKED BY	DANILO F. SANTILLAN (PE, No. 1433)
APPROVED BY	JOY EDUARDO F. LUBOON (PE, No. 104)
DATE	
PROJECT ENGINEER	ROMEO B. BROWNER JR. (PE, No. 104)

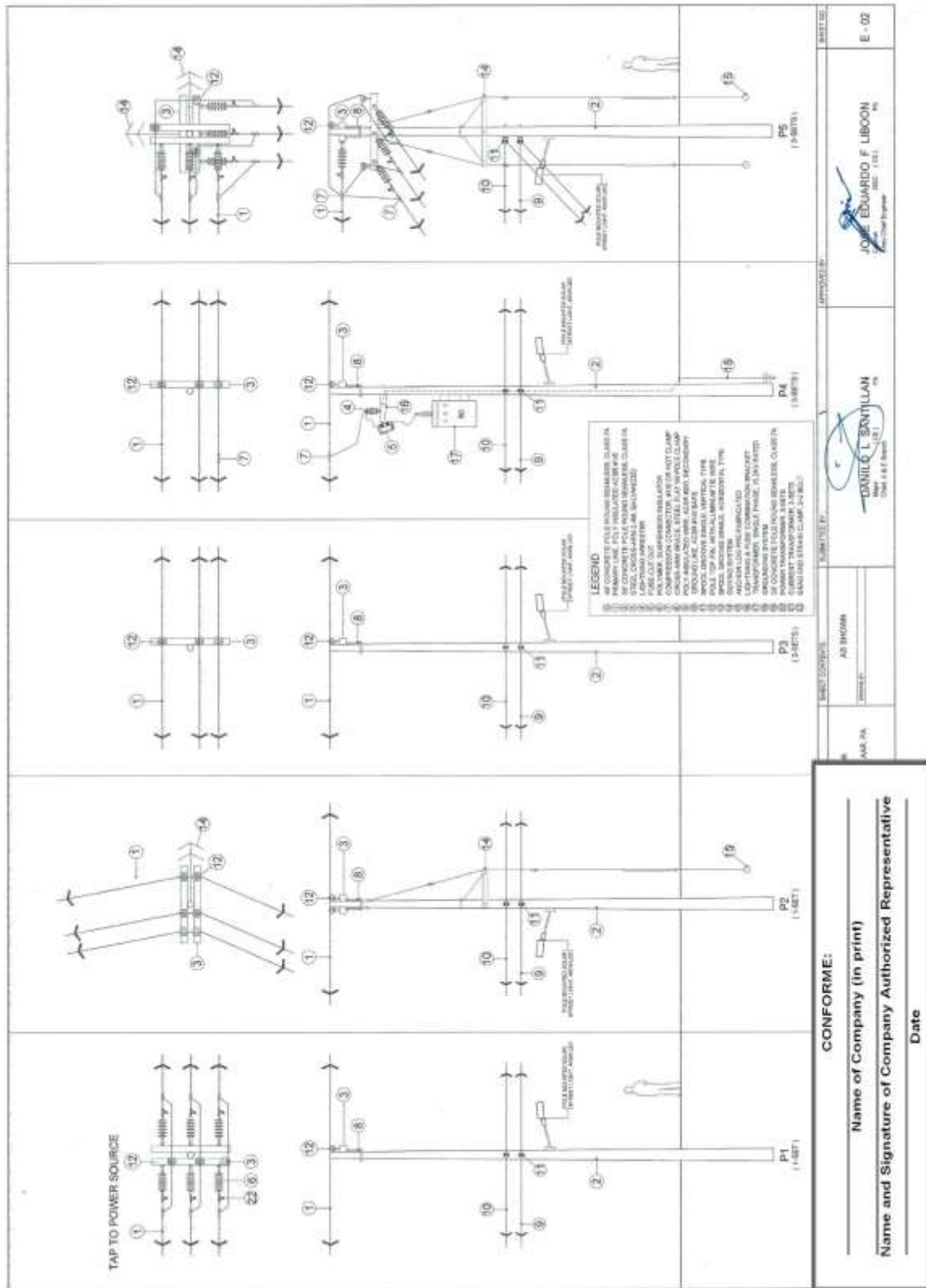
CONFORME:

 Name of Company (in print)

 Name and Signature of Company Authorized Representative

 Date

(Page 10/29)
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23



Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
 Bid Ref. No. ENG'G PABAC3 020-23

				<p>LEGEND</p> <ul style="list-style-type: none"> 1. 155MM SP HOWITZER CLAMPER 2. 155MM SP HOWITZER CLAMPER 3. 155MM SP HOWITZER CLAMPER 4. 155MM SP HOWITZER CLAMPER 5. 155MM SP HOWITZER CLAMPER 6. 155MM SP HOWITZER CLAMPER 7. 155MM SP HOWITZER CLAMPER 8. 155MM SP HOWITZER CLAMPER 9. 155MM SP HOWITZER CLAMPER 10. 155MM SP HOWITZER CLAMPER 11. 155MM SP HOWITZER CLAMPER 12. 155MM SP HOWITZER CLAMPER 13. 155MM SP HOWITZER CLAMPER 14. 155MM SP HOWITZER CLAMPER 15. 155MM SP HOWITZER CLAMPER 16. 155MM SP HOWITZER CLAMPER 17. 155MM SP HOWITZER CLAMPER 18. 155MM SP HOWITZER CLAMPER 19. 155MM SP HOWITZER CLAMPER 20. 155MM SP HOWITZER CLAMPER 21. 155MM SP HOWITZER CLAMPER 22. 155MM SP HOWITZER CLAMPER
				<p>AS SHOWN</p>
				<p>AS SHOWN</p>
				<p>AS SHOWN</p>
				<p>AS SHOWN</p>
<p>CONFORME:</p> <p>Name of Company (in print) _____</p> <p>Name and Signature of Company Authorized Representative _____</p> <p>Date _____</p>				<p>AS SHOWN</p>

(Page 12/29)
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23

<p align="center">S1 (+SET)</p>	<p align="center">S2 (+SET)</p>	<p align="center">S3 (+SET)</p>	<p align="center">S4 (+SET)</p>	<p align="center">S5 (+SET)</p>			
<p>LEGEND</p> <ul style="list-style-type: none"> 1. CONCRETE 2. STEEL 3. POLYMER SUSPENSION INSULATOR 4. POLYMER SUSPENSION INSULATOR 5. POLYMER SUSPENSION INSULATOR 6. POLYMER SUSPENSION INSULATOR 7. POLYMER SUSPENSION INSULATOR 8. POLYMER SUSPENSION INSULATOR 9. POLYMER SUSPENSION INSULATOR 10. POLYMER SUSPENSION INSULATOR 11. POLYMER SUSPENSION INSULATOR 12. POLYMER SUSPENSION INSULATOR 13. POLYMER SUSPENSION INSULATOR 14. POLYMER SUSPENSION INSULATOR 15. POLYMER SUSPENSION INSULATOR 16. POLYMER SUSPENSION INSULATOR 17. POLYMER SUSPENSION INSULATOR 18. POLYMER SUSPENSION INSULATOR 19. POLYMER SUSPENSION INSULATOR 20. POLYMER SUSPENSION INSULATOR 21. POLYMER SUSPENSION INSULATOR 22. POLYMER SUSPENSION INSULATOR 23. POLYMER SUSPENSION INSULATOR 24. POLYMER SUSPENSION INSULATOR 25. POLYMER SUSPENSION INSULATOR 26. POLYMER SUSPENSION INSULATOR 27. POLYMER SUSPENSION INSULATOR 28. POLYMER SUSPENSION INSULATOR 29. POLYMER SUSPENSION INSULATOR 30. POLYMER SUSPENSION INSULATOR 31. POLYMER SUSPENSION INSULATOR 32. POLYMER SUSPENSION INSULATOR 33. POLYMER SUSPENSION INSULATOR 34. POLYMER SUSPENSION INSULATOR 35. POLYMER SUSPENSION INSULATOR 36. POLYMER SUSPENSION INSULATOR 37. POLYMER SUSPENSION INSULATOR 38. POLYMER SUSPENSION INSULATOR 39. POLYMER SUSPENSION INSULATOR 40. POLYMER SUSPENSION INSULATOR 41. POLYMER SUSPENSION INSULATOR 42. POLYMER SUSPENSION INSULATOR 43. POLYMER SUSPENSION INSULATOR 44. POLYMER SUSPENSION INSULATOR 45. POLYMER SUSPENSION INSULATOR 46. POLYMER SUSPENSION INSULATOR 47. POLYMER SUSPENSION INSULATOR 48. POLYMER SUSPENSION INSULATOR 49. POLYMER SUSPENSION INSULATOR 50. POLYMER SUSPENSION INSULATOR 51. POLYMER SUSPENSION INSULATOR 52. POLYMER SUSPENSION INSULATOR 53. POLYMER SUSPENSION INSULATOR 54. POLYMER SUSPENSION INSULATOR 55. POLYMER SUSPENSION INSULATOR 56. POLYMER SUSPENSION INSULATOR 57. POLYMER SUSPENSION INSULATOR 58. POLYMER SUSPENSION INSULATOR 59. POLYMER SUSPENSION INSULATOR 60. POLYMER SUSPENSION INSULATOR 61. POLYMER SUSPENSION INSULATOR 62. POLYMER SUSPENSION INSULATOR 63. POLYMER SUSPENSION INSULATOR 64. POLYMER SUSPENSION INSULATOR 65. POLYMER SUSPENSION INSULATOR 66. POLYMER SUSPENSION INSULATOR 67. POLYMER SUSPENSION INSULATOR 68. POLYMER SUSPENSION INSULATOR 69. POLYMER SUSPENSION INSULATOR 70. POLYMER SUSPENSION INSULATOR 71. POLYMER SUSPENSION INSULATOR 72. POLYMER SUSPENSION INSULATOR 73. POLYMER SUSPENSION INSULATOR 74. POLYMER SUSPENSION INSULATOR 75. POLYMER SUSPENSION INSULATOR 76. POLYMER SUSPENSION INSULATOR 77. POLYMER SUSPENSION INSULATOR 78. POLYMER SUSPENSION INSULATOR 79. POLYMER SUSPENSION INSULATOR 80. POLYMER SUSPENSION INSULATOR 81. POLYMER SUSPENSION INSULATOR 82. POLYMER SUSPENSION INSULATOR 83. POLYMER SUSPENSION INSULATOR 84. POLYMER SUSPENSION INSULATOR 85. POLYMER SUSPENSION INSULATOR 86. POLYMER SUSPENSION INSULATOR 87. POLYMER SUSPENSION INSULATOR 88. POLYMER SUSPENSION INSULATOR 89. POLYMER SUSPENSION INSULATOR 90. POLYMER SUSPENSION INSULATOR 91. POLYMER SUSPENSION INSULATOR 92. POLYMER SUSPENSION INSULATOR 93. POLYMER SUSPENSION INSULATOR 94. POLYMER SUSPENSION INSULATOR 95. POLYMER SUSPENSION INSULATOR 96. POLYMER SUSPENSION INSULATOR 97. POLYMER SUSPENSION INSULATOR 98. POLYMER SUSPENSION INSULATOR 99. POLYMER SUSPENSION INSULATOR 100. POLYMER SUSPENSION INSULATOR 					<p>SEE COMMENTS</p> <p>AS SHOWN</p>	<p>APPROVED BY:</p> <p>JOSE EDUARDO F. LIBON <small>Chief Civil Engineer</small></p>	<p>SHEET NO.</p> <p>E-04</p>
<p>CONFORME:</p> <p>_____ Name of Company (in print)</p> <p>_____ Name and Signature of Company Authorized Representative</p> <p>_____ Date</p>							

**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**



1 PERSPECTIVE
A-1 NOT TO SCALE



2 VICINITY MAP
A-1 NOT TO SCALE



3 LOCATION MAP
A-1 SCALE 1:500 METERS



4 SITE LOCATION PLAN
A-1 SCALE 1:100 METERS

CONFORME:

Name of Company (in print) _____

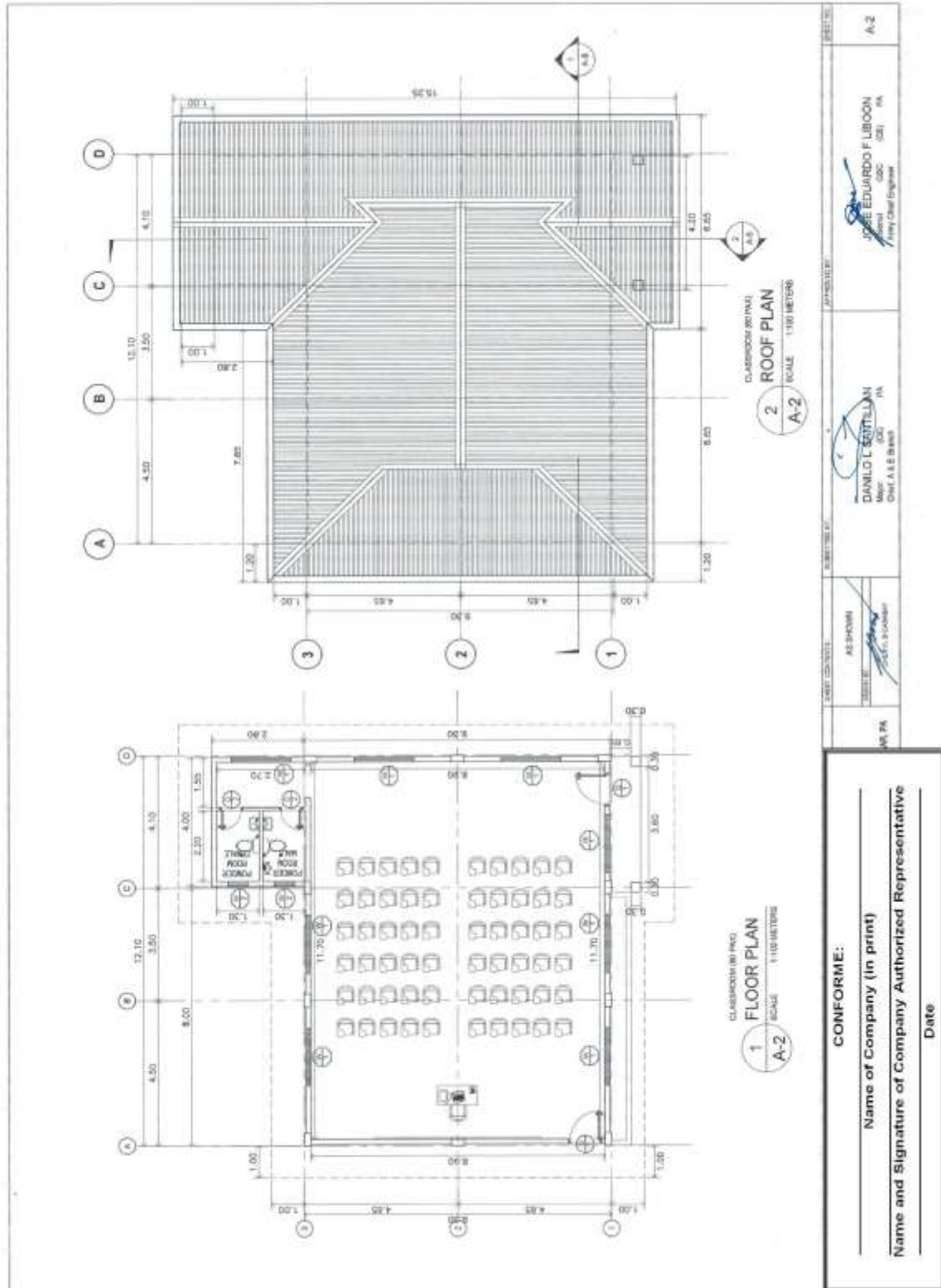
Name and Signature of Company Authorized Representative _____

Date _____

SUBMITTED BY: AD SHOWN	DRAWN BY: FRANZIS BANTILLAN	CHECKED BY: FRANZIS BANTILLAN	APPROVED BY: ROMEO S. AVANER JR.
PROJECT COORDINATOR: BERNARDINA BASTIDAS	PROJECT ENGINEER: FRANZIS BANTILLAN	PROJECT SUPERVISOR: JOSE EDUARDO F. LIBON	PROJECT OWNER: ROMEO S. AVANER JR.
PROJECT NO.: LARK PA		PROJECT TITLE: CONSTRUCTION OF CLASSROOM	

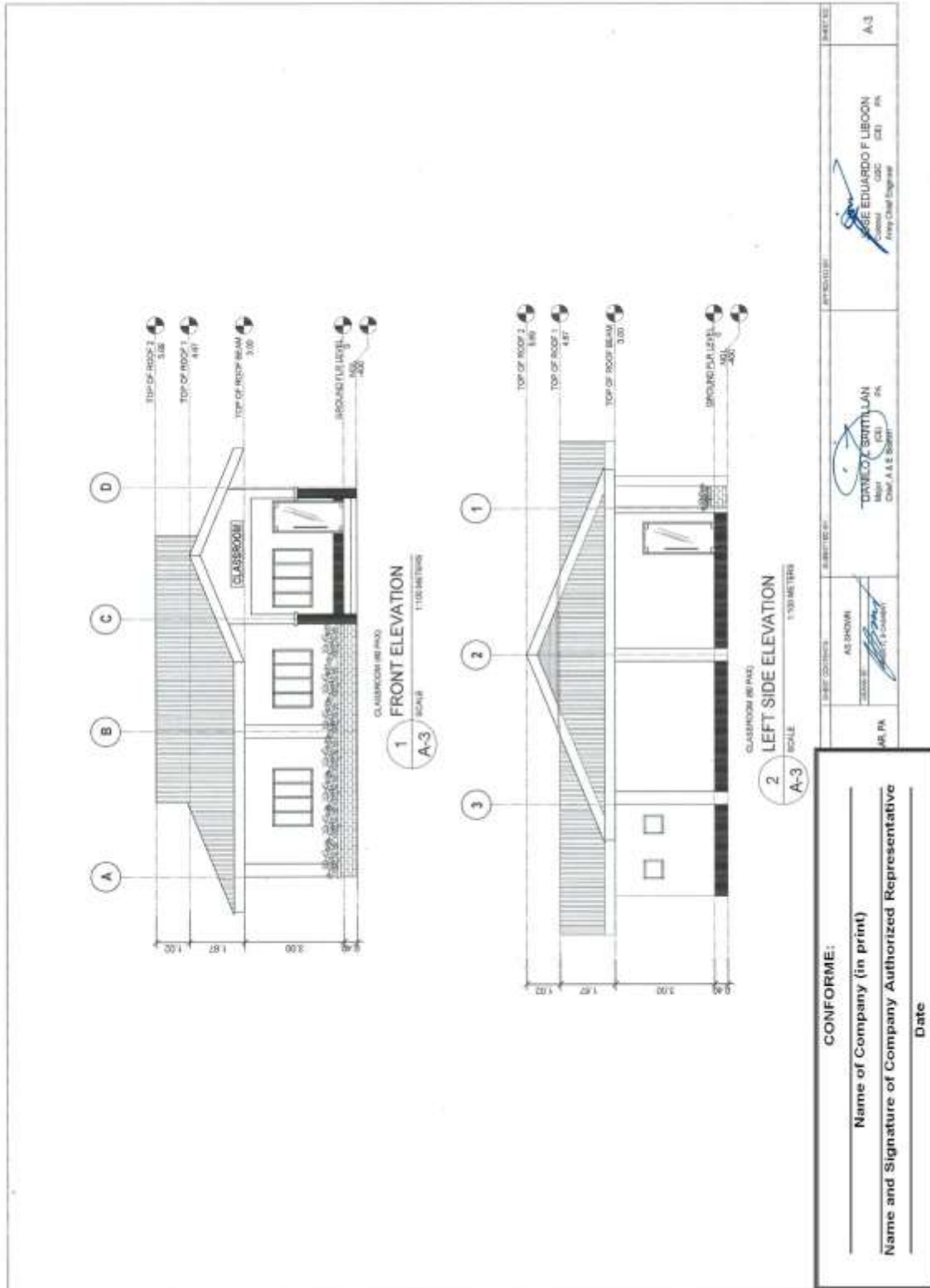
(Page 14/29)

**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

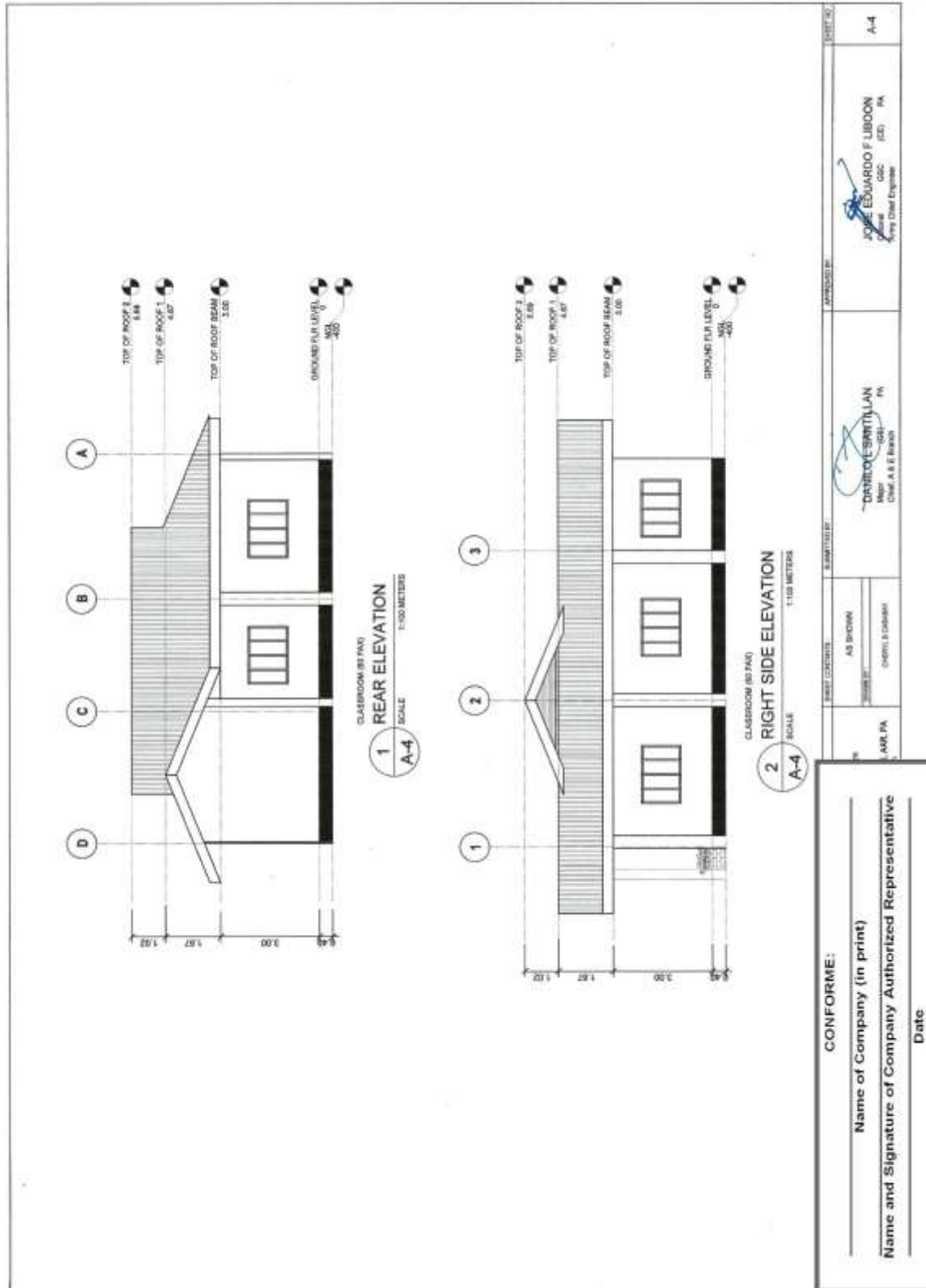


(Page 15/29)

**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

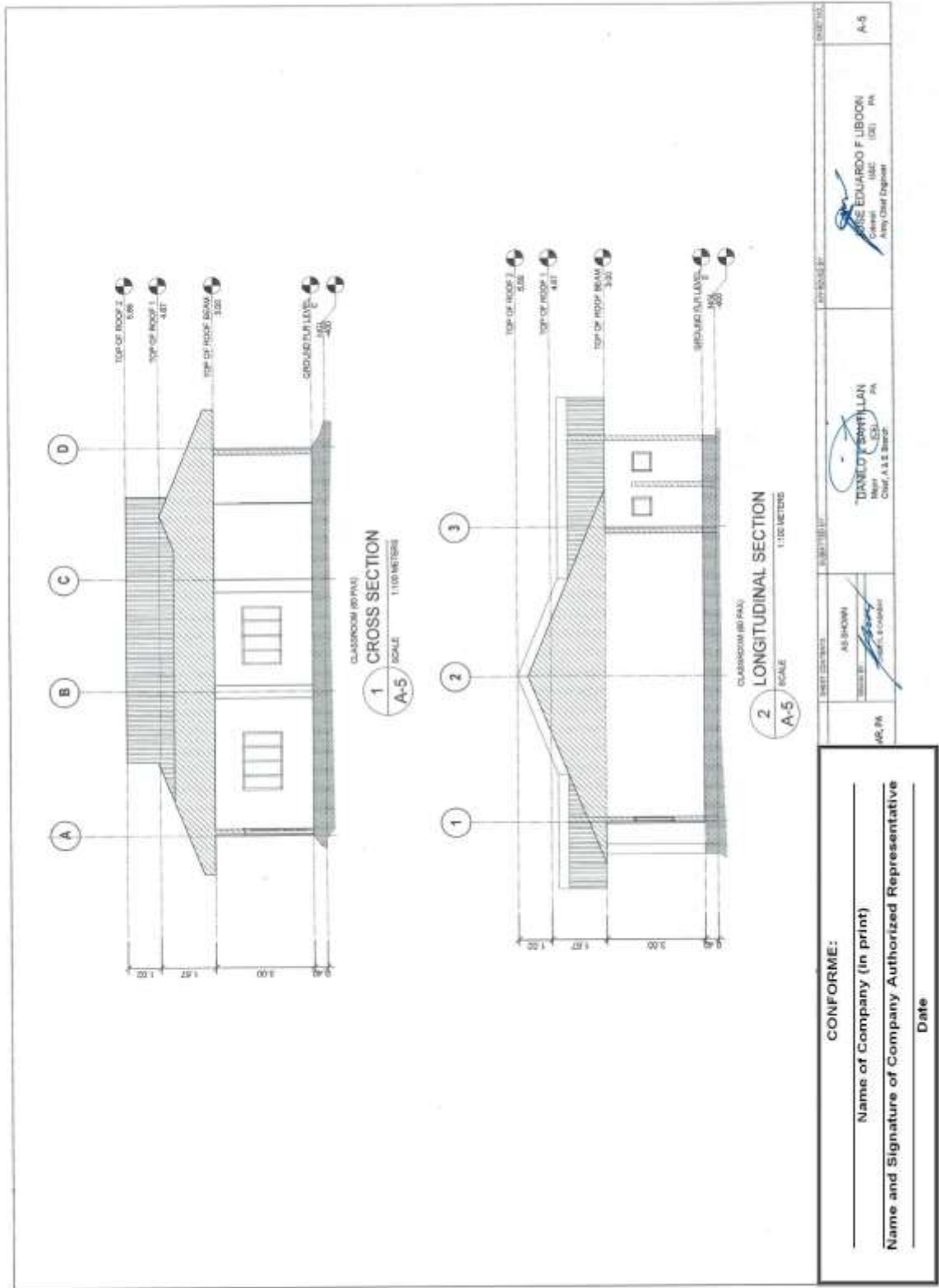


**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

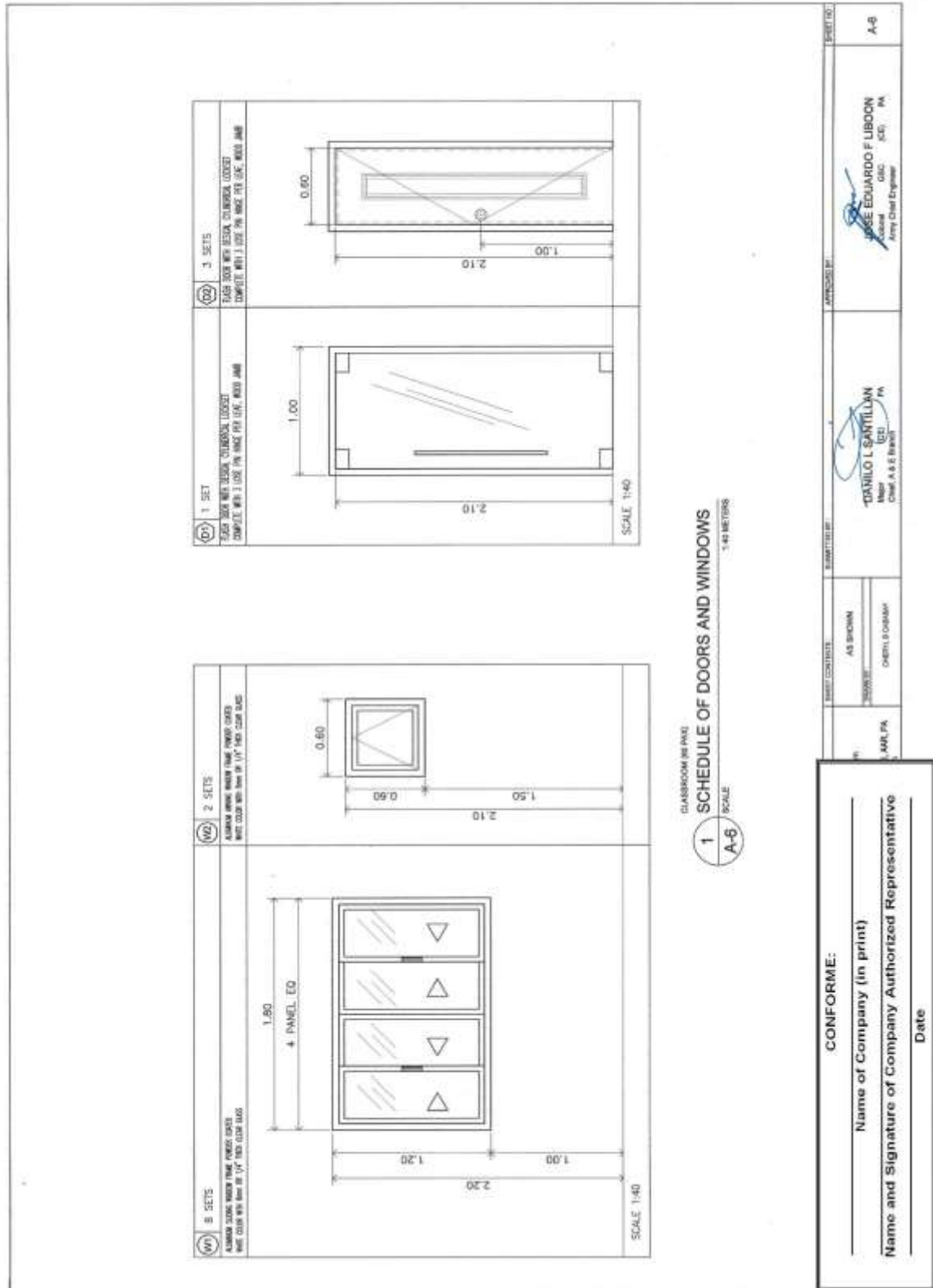


(Page 17/29)

Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23



**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**



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**Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23**

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL CONCERN AND DISTANCES AND SETS SHALL NOT BE SEALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR REPRESENTATIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR FINISHES, 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 ACI 318.8S BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE AISC 360S STEEL CONSTRUCTION MANUAL AND SHALL CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- AG 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. NOTIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS BOV, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER APPROVAL, BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOODS, 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 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 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 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
CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT DEGRADATION, RE-HAND LUNG OR PLACING SHALL BE DONE PROPERLY WITH BUCKETS, BUCKETS OR WHEELBARROWS, NO CHUTES 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.	75mm

- 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.

TYPICAL CONNECTION DETAIL OF MASONRY WALL

CORNER WALL

INTERSECTION WALL

OPENING OR END WALL

SECTION

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 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

CONFORME:

Name of Company (in print) _____

Name and Signature of Company Authorized Representative _____

Date _____

AS SHOWN

PROCESSED

APPROVED BY:

JOSE EDUARDO F. LIBORON
MEMBER
Army Chief Engineer

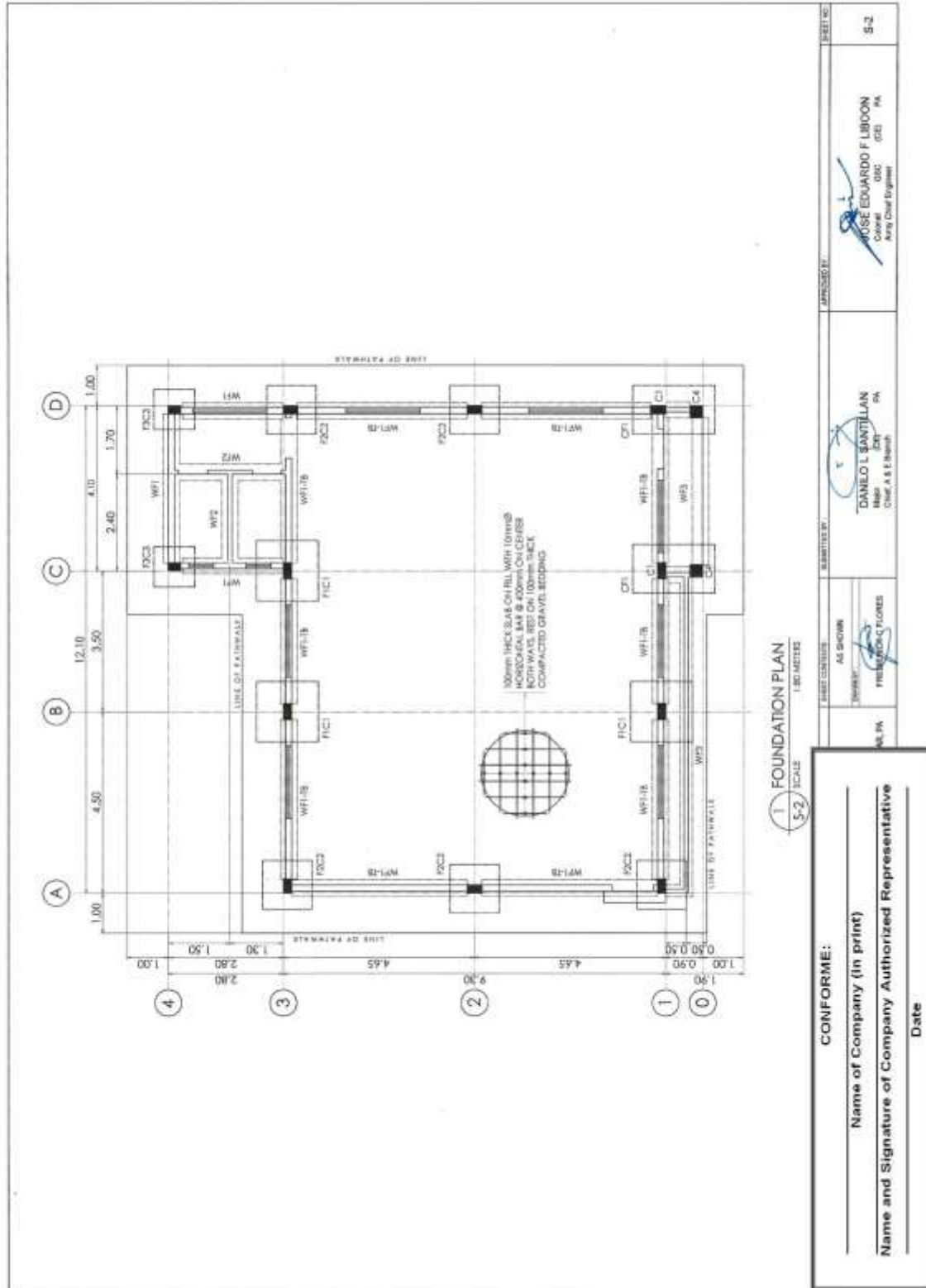
APPROVED BY:

DANILO L. BARTILAN
MEMBER
Chief 4.8.1.3 (a) (a) (a)

SHEET NO. S-1

(Page 20/29)

Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23



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Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot) Bid Ref. No. ENG'G PABAC3 020-23

SECTION 1: FOOTING AND COLUMN
SCALE: 1:25 METERS

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

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

SCHEDULE OF R.C.C. BEAM

BEAM MARK	h (mm)	b (mm)	STEEL REINFORCEMENT				STIRRUPS	
			A	A'	B	C	SIZE	SPACING
B1	300	200	2-12mm ²	2-12mm ²	2-12mm ²	2-12mm ²	240mm, 240mm, 240mm, 240mm	100mm
B2	300	200	2-12mm ²	2-12mm ²	2-12mm ²	2-12mm ²	240mm, 240mm, 240mm, 240mm	100mm
B3	300	200	2-12mm ²	2-12mm ²	2-12mm ²	2-12mm ²	240mm, 240mm, 240mm, 240mm	100mm

SCHEDULE OF R.C.C. COLUMN

MARK	L (mm)	D (mm)	FOOTING REINFORCEMENT		L-SHAPED
			A	B	
F1	1,200	300	7-12mm ²	2-12mm ²	2-12mm ²
F2	1,200	300	6-12mm ²	4-12mm ²	4-12mm ²
F3	1,200	300	5-12mm ²	4-12mm ²	4-12mm ²
C1	2,000	300	10-12mm ²	6-12mm ²	6-12mm ²

SECTION DETAIL OF FOOTING AND COLUMN
SCALE: 1:25 METERS

CONFORME:

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

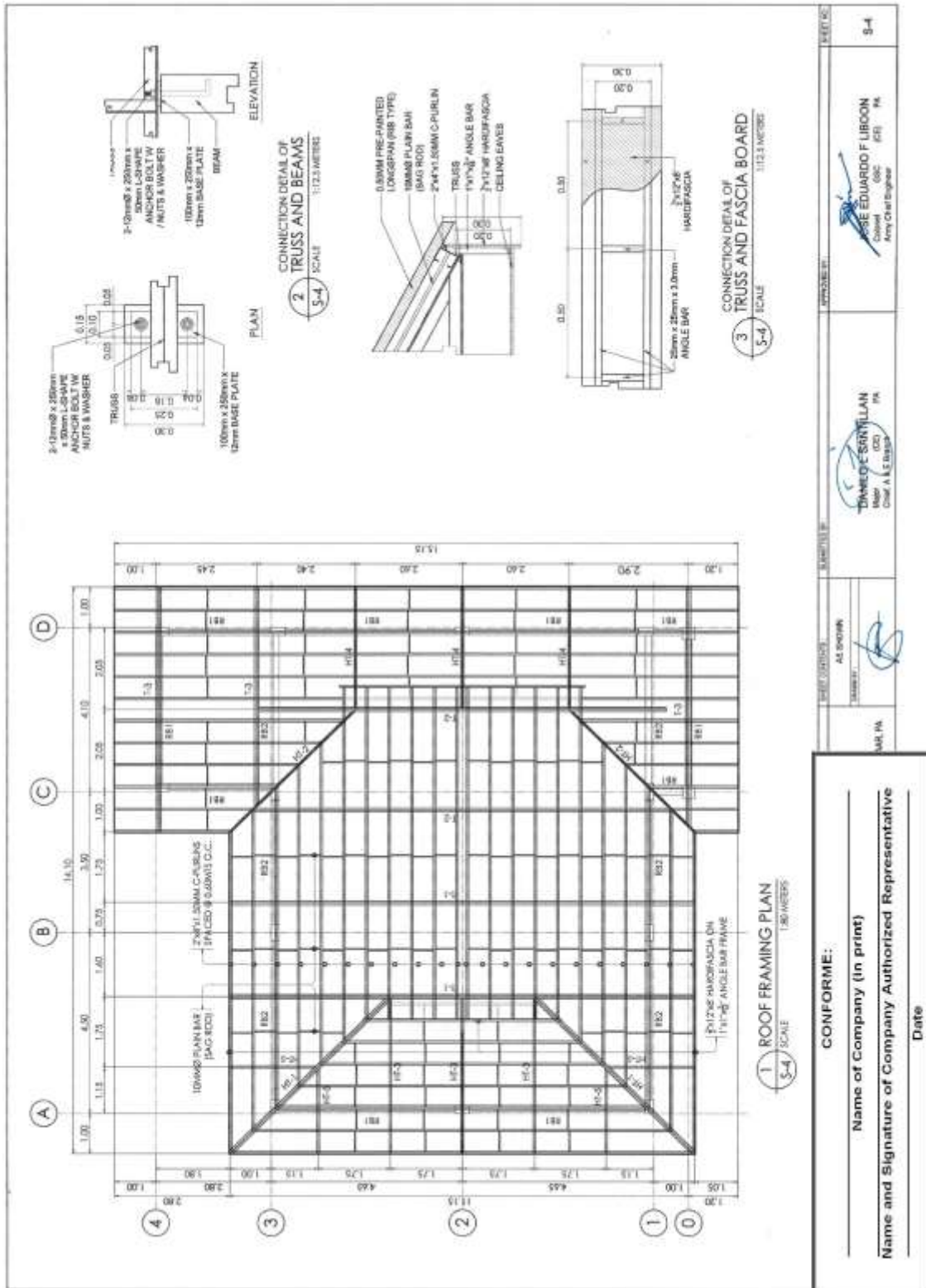
AS SHOWN

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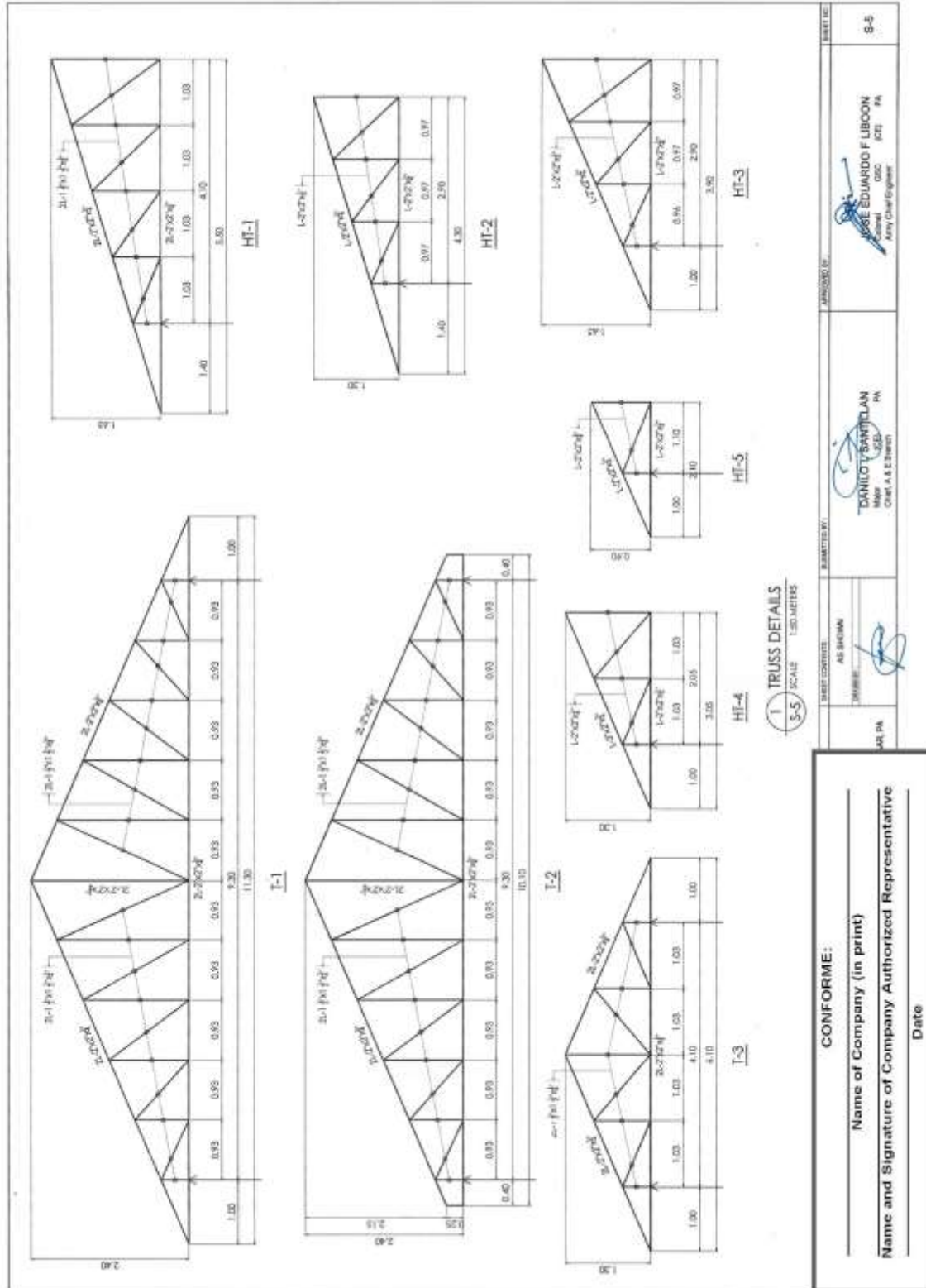
JOSE EDUARDO F LIBRON
Civil Engr. (CE) PA
Prof. (P)

DANIEL SANTIAGAN
Civil Engr. (CE) PA
Prof. (P)

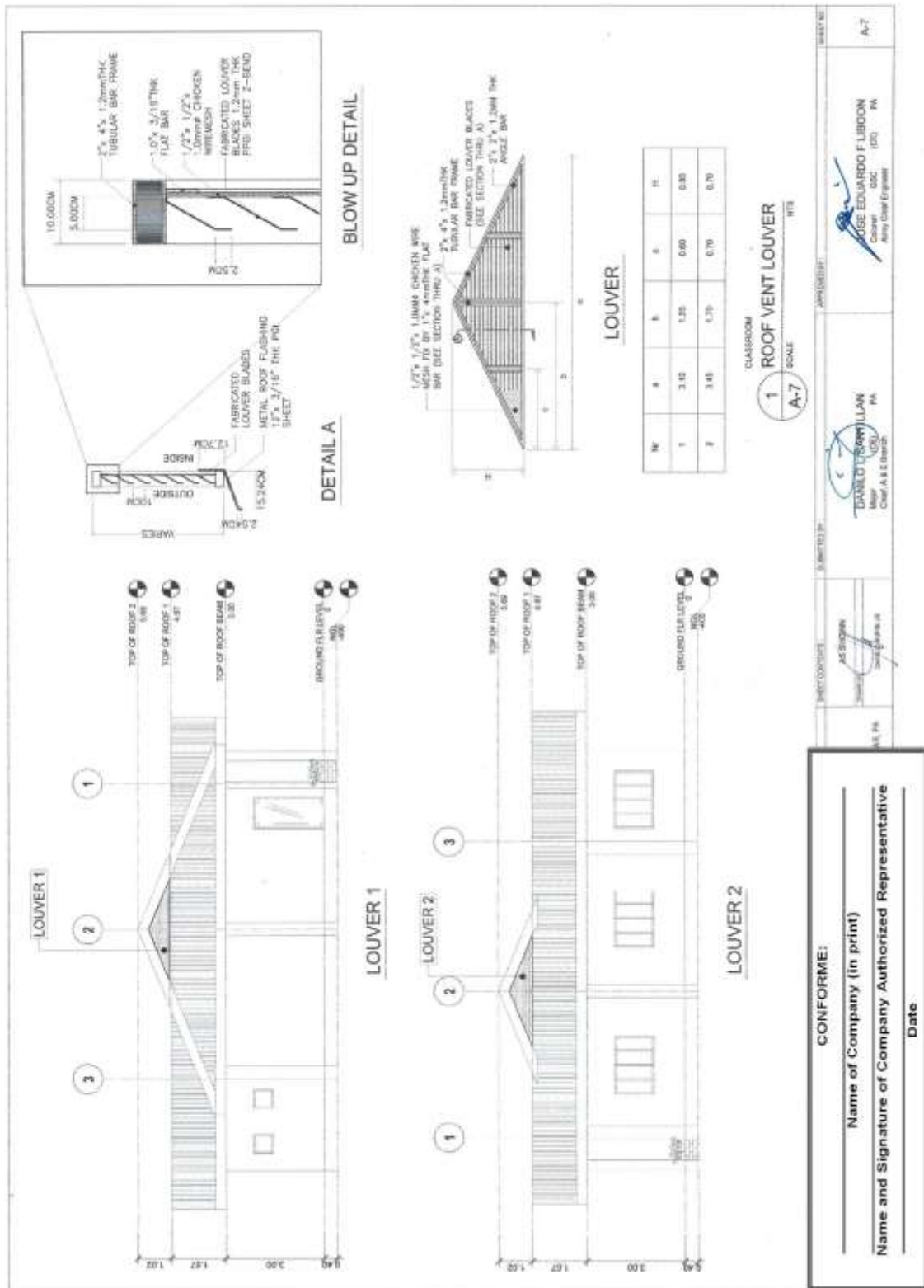
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23



(Page 23/29)
Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
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Bid Ref. No. ENG'G PABAC3 020-23



Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
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Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA at Fort Magsaysay, Nueva Ecija (1 Lot)
 Bid Ref. No. ENG'G PABAC3 020-23

GENERAL NOTES

1. ALL PLUMBING WORK SHALL CONFORM WITH THE PREVIOUS REQUIREMENTS OF LOCAL ORDINANCES AND LATEST EDITION OF NATIONAL PLUMBING CODE OF THE PHILIPPINES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED TO PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PROOF OF THE DESIGNER.
3. ALL SLOPE FOR HORIZONTAL PIPES WITH 100MM DIAMETER OR SMALLER SHALL MAINTAIN 2% AS MINIMUM, OTHERWISE SHALL MAINTAIN A MINIMUM SLOPE OF 1%.
4. ALL FIXTURES SHALL BE VENTED, UNLESS OTHERWISE NOTED.
5. ALL PIPES SIZES INDICATED ARE IN MILLIMETER (MM) 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 1034 KPA 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 KNOWN TO TRADE AND TO THE SATISFACTION OF THE ARCHITECT AND THE ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION AND OPERATION PERMITS AND FEES ALL REQUIRED FEES.

PLAN

SECTION THRU A

SPECIFICATION

1. COLD WATER PIPE - PPR PIPE OR APPROVED QUALITY.
2. DRAINAGE - POLYVINYL CHLORIDE, SERIES 1000.
3. STORM DRAINAGE PIPE
 - INTERIOR - POLYVINYL CHLORIDE, SERIES 1000
 - EXTERIOR - CONCRETE PIPE, ASTM STANDARD.
4. VENT PIPE / VENT STACK - POLYVINYL CHLORIDE, SERIES 100A.
5. SOIL AND WASTE PIPES - POLYVINYL CHLORIDE, SERIES 1000.
6. PIPE SEALANT - POLYVINYL CHLORIDE SOLVENT CEMENT.

LEGEND:

- OP - COLD WATER LINE
- WP - WATER CLOSET
- LW - LAUNDRY
- FD - FLOOR DRAIN
- KS - KITCHEN SINK
- UR - URINAL
- CA - CUP-HOBT
- VP - VENT PIPE
- VS - VENT STACK 150R-ROOF
- SP - SOIL PIPE
- WF - WATER FAUCET
- SH - SHOWER HEAD
- SV - GATE VALVE
- WM - WATER METER
- WCSP - WATER CLOSET SUPPLY PIPE
- URL - URINAL
- LDSP - LAUNDRY TUB SUPPLY PIPE
- SV - SEPTIC VENT

CONFORME:

Name of Company (in print) _____

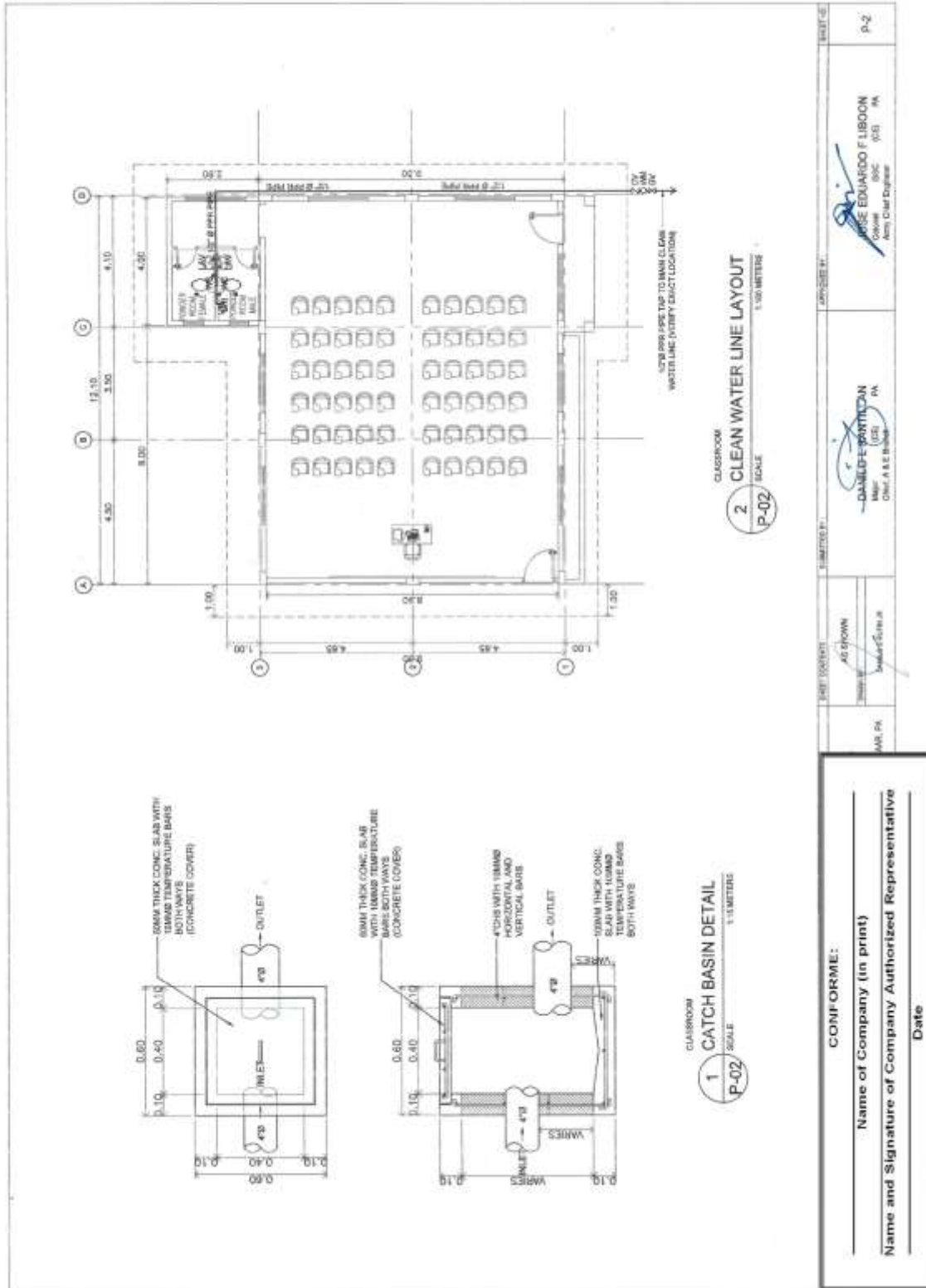
Name and Signature of Company Authorized Representative _____

Date _____

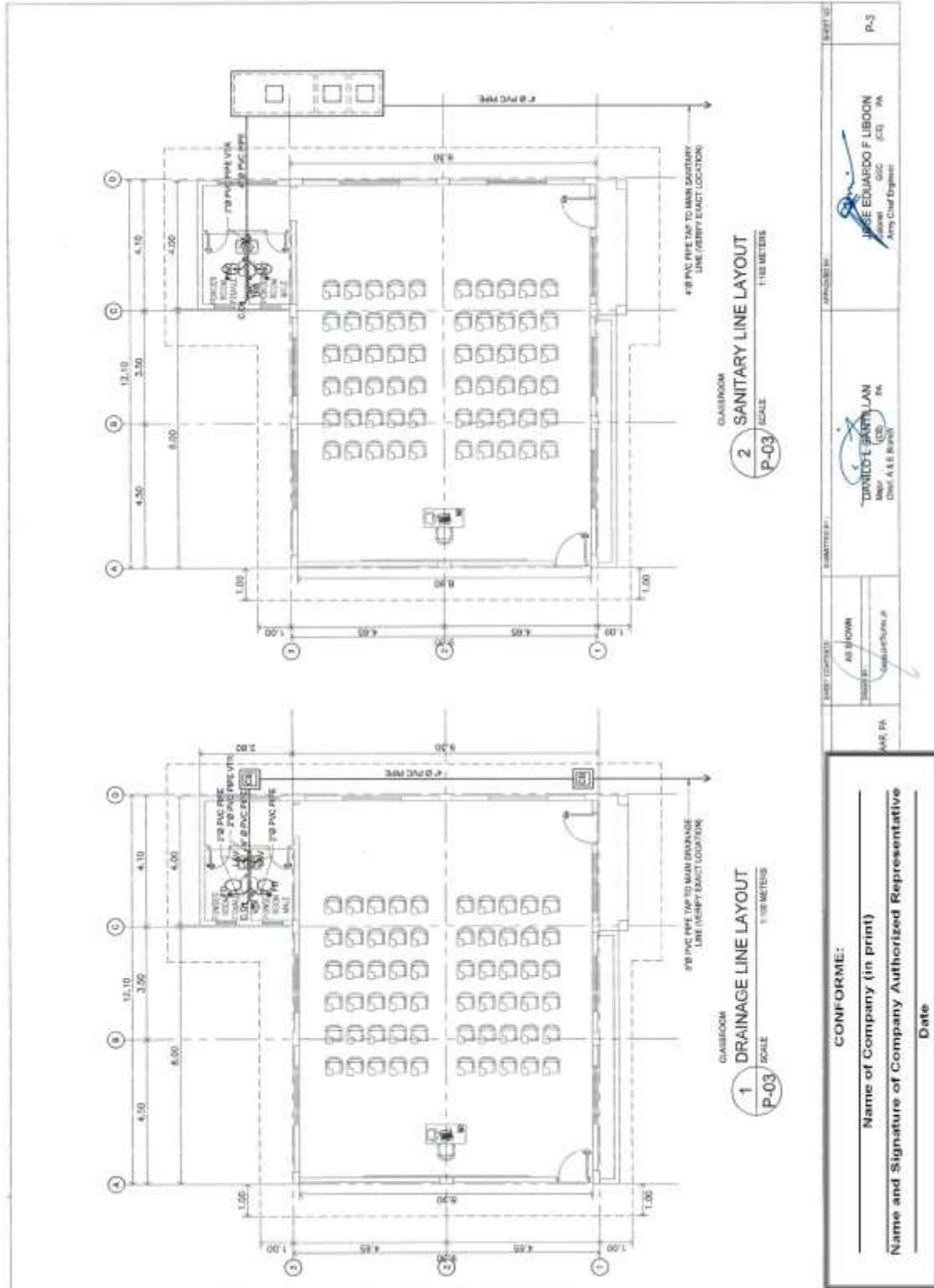
APPROVED BY: **JOSE EDUARDO F LIBOON** (ES) RA
 Army Chief Engineer

APPROVED BY: **DANILO L SARTILLAN** (CE) RA
 Chief A.E. Engineer

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Construction of Base Utilities and Facilities of 155mm SP Howitzer for AAR, PA
at Fort Magsaysay, Nueva Ecija (1 Lot)
Bid Ref. No. ENG'G PABAC3 020-23

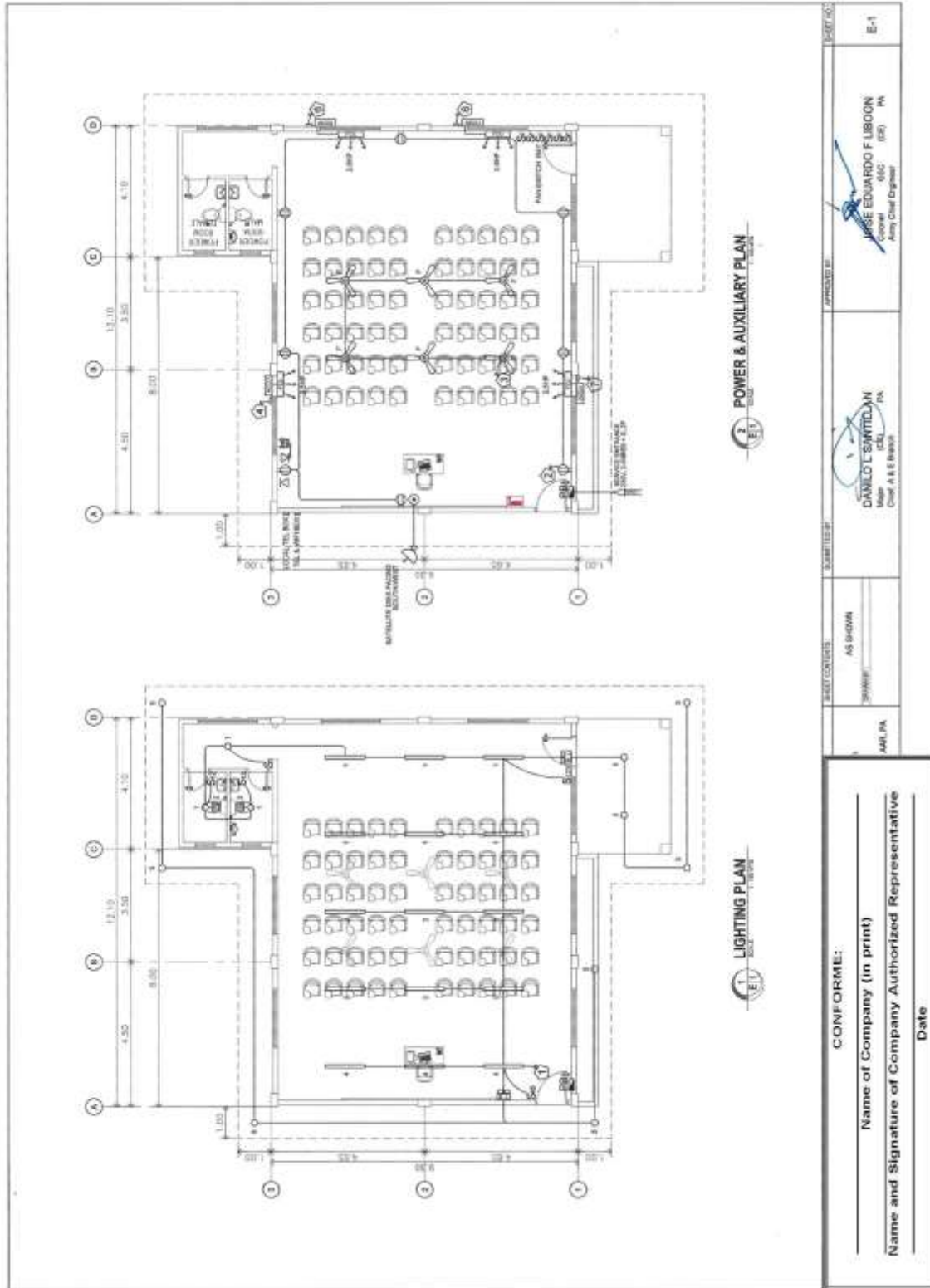


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Bid Ref. No. ENG'G PABAC3 020-23**



SHEET NO.	E-1
	APPROVED BY
SUBMITTED BY	 MAJOR GENERAL EDUARDO F. LIBOON Colonel (E-5) PA Army Chief Engineer
	 MAJOR DANILLO L. SMITDJAN Colonel (E-5) PA Chief P & E Branch
SHEET CONTENTS	AS SHOWN
DATE	APR 24
CONFORME: _____ Name of Company (in print) Name and Signature of Company Authorized Representative Date	

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