



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE VIII
SOUTHERN LEYTE 2nd DISTRICT ENGINEERING OFFICE
SOGOD, SOUTHERN LEYTE

C.Y. 2025 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
**CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/
FACILITIES TO SUPPORT SOCIAL SERVICES -
CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING**

BARANGAY TUBURAN, HINUNANGAN, SOUTHERN LEYTE
10.31234°N , 125.17565°E

SUBMITTED:


RAINIER LOU C. RUIZ
CHIEF, PLANNING & DESIGN SECTION

DATE: FEB 10 2025

RECOMMENDED:


EVELYN D. YAP
ASSISTANT DISTRICT ENGINEER

DATE: FEB 17 2025

APPROVED:


EDUARDO V. SANTOS
DISTRICT ENGINEER

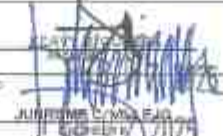
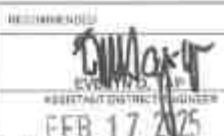
DATE: FEB 17 2025



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE VIII
SOUTHERN LEYTE 2nd DISTRICT ENGINEERING OFFICE
SOGOD, SOUTHERN LEYTE

C.Y. 2025 PROJECT
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**CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/
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CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING**

BARANGAY TUBURAN, HINUNANGAN, SOUTHERN LEYTE
10.31234°N , 125.17565°E

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE VIII SOUTHERN LEYTE 2 nd DISTRICT ENGINEERING OFFICE SOGOD, SOUTHERN LEYTE	PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED	REVIEWED	QUANTITY	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING BARANGAY TUBURAN, HINUNANGAN, SOUTHERN LEYTE	COVER PAGE	 JUNELLE C. WALEJO ENGINEER DATE FEB 10 2025	 RAINER C. RUZ CHIEF PLANNING & DESIGN SECTION DATE FEB 10 2025	 RAINER C. RUZ CHIEF PLANNING & DESIGN SECTION DATE FEB 10 2025	 EDUARDO V. LANTOS ASSISTANT DISTRICT ENGINEER DATE FEB 17 2025	 EDUARDO V. LANTOS DISTRICT ENGINEER DATE FEB 17 2025	1	21



PERSPECTIVE

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

DISTRICT / MUNICIPALITY

LAND USE & ZONING

BUILDING OFFICIAL DATE

LINE & GRADE

BUILDING OFFICIAL DATE

ARCHITECTURAL

BUILDING OFFICIAL DATE

CIVIL/STRUCTURAL

BUILDING OFFICIAL DATE

ELECTRICAL

BUILDING OFFICIAL DATE

MECHANICAL

BUILDING OFFICIAL DATE

SANITARY

BUILDING OFFICIAL DATE

PLUMBING

BUILDING OFFICIAL DATE

ELECTRONICS

BUILDING OFFICIAL DATE

GEODETIC ENGINEER

BUILDING OFFICIAL DATE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BGCOD, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING BARANGAY TUBURAN, HINUNANGAN, SOUTHERN LEYTE

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PERSPECTIVE
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DISTRICT

DATE

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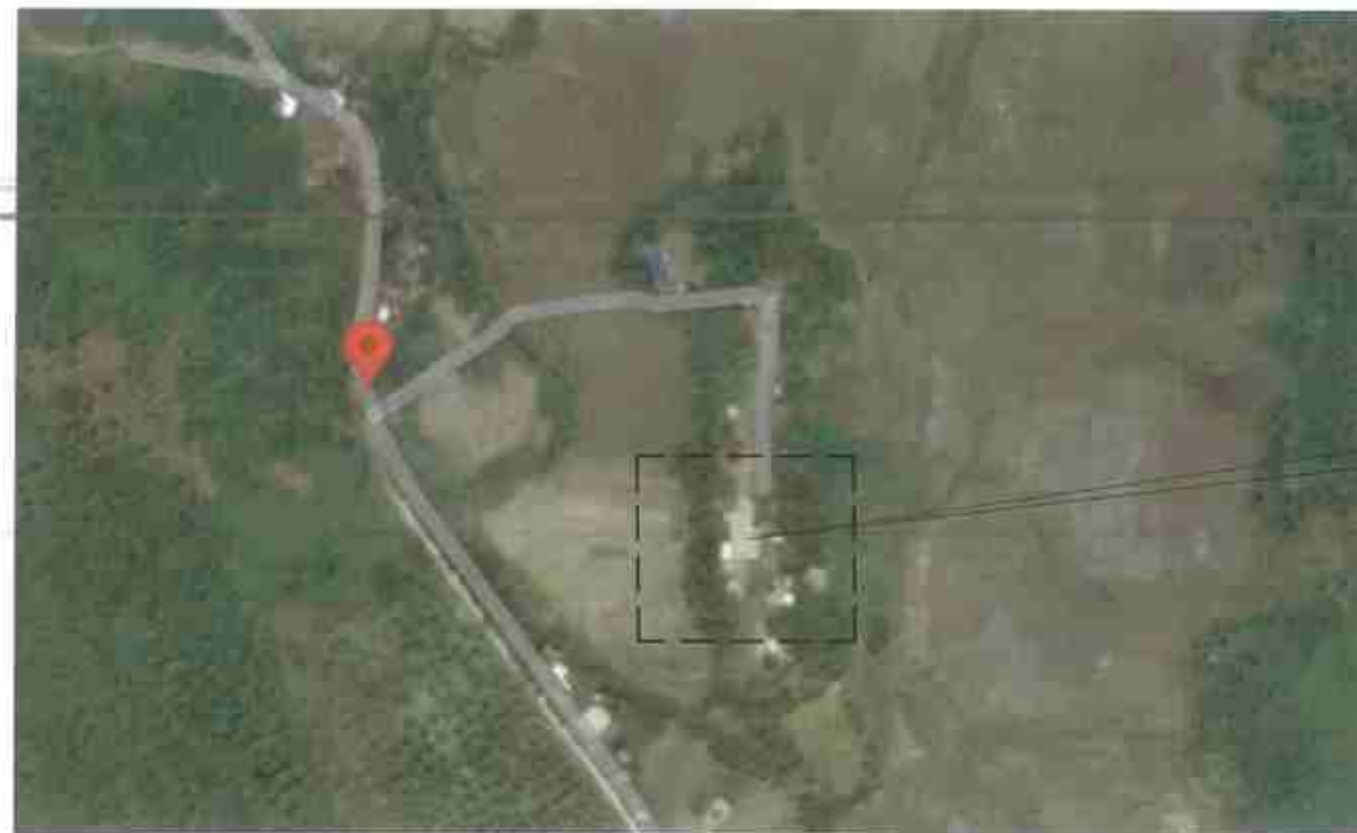
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DATE



CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE
BUILDING/FACILITIES TO SUPPORT SOCIAL SERVICES -
CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE
BUILDING

BARANGAY TUBURAN, HINUNANGAN, SOUTHERN LEYTE
10.31234°N, 125.17565°E

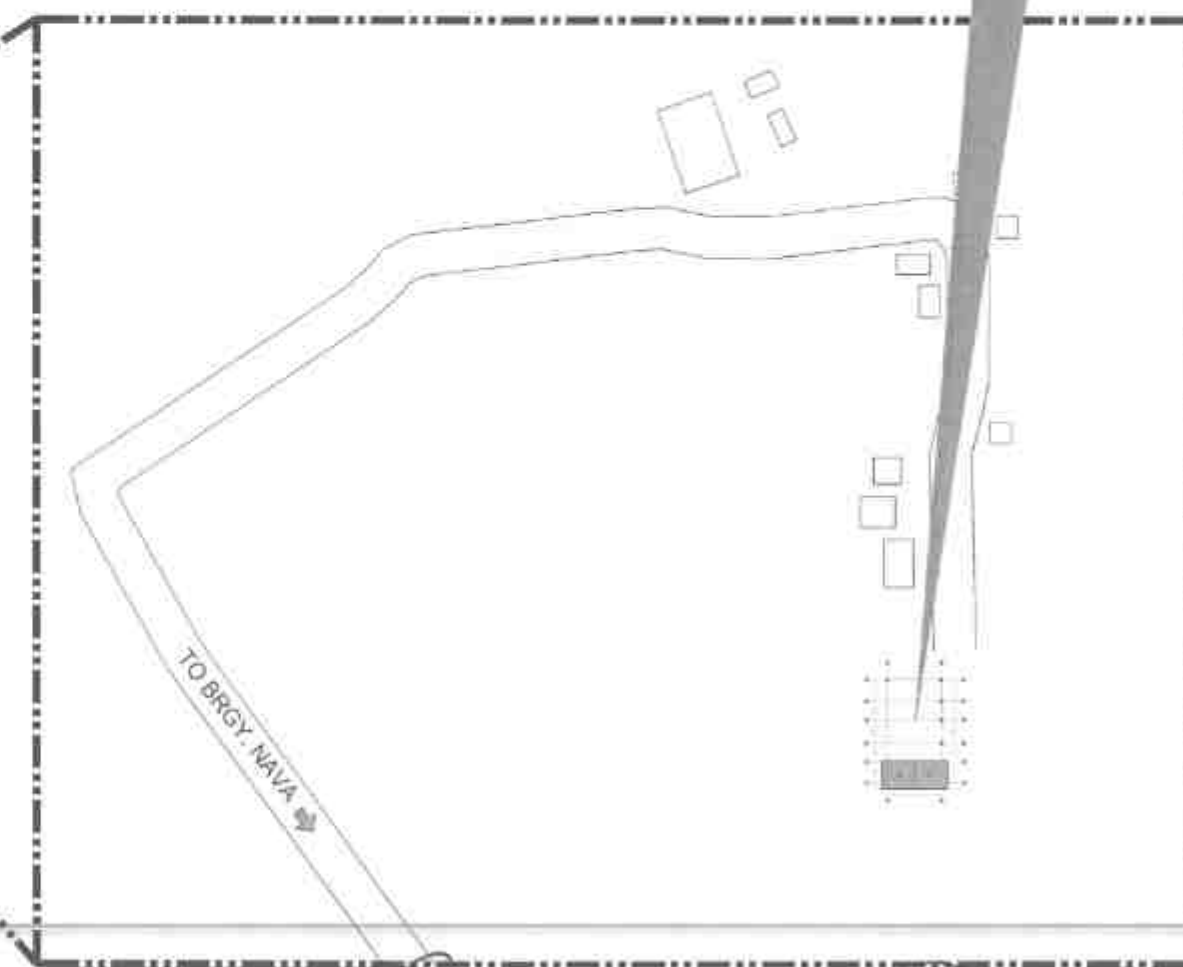


LOCATION MAP



SOUTHERN LEYTE MAP

LOCATION MAP



OFFICE OF THE DISTRICT ENGINEER
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
30000 SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING
Barangay Tuburan, Hinunangan, Southern Leyte

SHEET CONTENTS
LOCATION MAP

DRAWN BY
DATE
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DESIGNED BY
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APPROVED BY
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SUBMITTED BY
DATE

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OTHER GENERAL REQUIREMENTS

ITEM B.5 PROJECT BILLBOARD/SIGNBOARD

1. GENERAL REQUIREMENTS

THE CONTRACTOR SHALL INSTALL TWO (2) PROJECT INFORMATION SIGNS AT / OR NEAR THE BEGINNING AND THE END OF THE PROJECT OR UPON THE DISCRETION OF THE ENGINEER.

THE SIGNS ARE PRESCRIBED SEPARATELY BY THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) FOR GOVERNMENT INFRASTRUCTURE PROJECTS TO INFORM THE PUBLIC OF THE IMPLEMENTATION OF THE PROJECT AND TO ADVISE THE ROAD USERS OF THE ONGOING CONSTRUCTION.

THE NEW BILLBOARD DESIGN LAYOUT, DIMENSION AND LETTER SIZES ON WHITE BACKGROUND, SHALL BE DEPICTED ON STANDARD BILLBOARD MEASURING 1,220MM X 2,440 MM USING 12.50 MM THICK MARINE PLYWOOD OR TARPULIN OF THE SAME SIZE POSTED ON 5 MM MARINE PLYWOOD. FOR EACH BUILDING PROJECT, THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE. FOR EACH ROAD/BRIDGE/FLOOD CONTROL PROJECT, TWO BILLBOARDS SHALL BE INSTALLED, ONE (1) AT THE BEGINNING AND ONE (1) AT THE END OF THE PROJECT.

FOR ROAD PROJECTS WITH A LENGTH OF 10KM OR MORE, ADDITIONAL BILLBOARD SHALL ALSO BE INSTALLED AT EVERY 5KM INTERVAL. NAME(S) AND/OR PICTURE(S) OF ANY PERSONAGES SHOULD NOT APPEAR ON THE BILLBOARD.

NOT OTHER BILLBOARDS SHALL BE ALLOWED 100 M BEFORE AND 100 M AFTER ALL DPWH PROJECTS AND IN-BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT-OF-WAY. DPWH CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.

THE CONTRACTOR SHALL ALSO INSTALL ONE (1) BILLBOARD AS PER COA CIRCULAR NO. 2013-004, INFORMATION AND PUBLICITY ON PROGRAMS/PROJECTS/ACTIVITIES OF GOVERNMENT AGENCIES.

UPON COMPLETION OF THE WORK, ALL SIGNS INSTALLED SHALL BE REMOVED FROM THE SITE.

ITEM B.7 OCCUPATIONAL SAFETY AND HEALTH

B.7.1 DESCRIPTION

THIS ITEM COVERS THE IMPLEMENTATION OF CONSTRUCTION SAFETY IN ALL STAGES OF PROJECT PROCUREMENT (DESIGN, ESTIMATE, CONSTRUCTION AND MAINTENANCE), REQUIREMENTS, PROVISIONS, AND INSTRUCTIONS FOR THE GUIDANCE OF THE ENGINEER

B.7.2 CONSTRUCTION SAFETY AND HEALTH PROGRAM(CSHP)

EVERY CONSTRUCTION PROJECT SHALL HAVE A SUITABLE AND APPROVED CONSTRUCTION SAFETY AND HEALTH PROGRAM (CSHP) AS REQUIRED IN ALL PROJECTS REGARDLESS OF AMOUNT, FUNDING SOURCE AND MODE OF IMPLEMENTATION WHICH SHALL COMPLY WITH THE MINIMUM SAFETY AND HEALTH REQUIREMENTS AS SPECIFIED IN THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS.

THE REQUIRE CSHP SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

1. COMPOSITION OF THE SAFETY AND HEALTH PERSONNEL RESPONSIBLE FOR THE PROPER IMPLEMENTATION OF CSHP.
2. SPECIFIC SAFETY POLITIES WHICH SHALL BE UNDERTAKEN IN THE CONSTRUCTION SITE, INCLUDING FREQUENCY OF AND PERSONS RESPONSIBLE FOR CONDUCTING TOOLBOX AND GANG MEETINGS.
3. PENALTIES AND SANCTIONS FOR VIOLATION OF THE CSHP.
4. FREQUENCY, CONTENT AND PERSONS RESPONSIBLE FOR ORIENTING, INSTRUCTING AND TRAINING ALL WORKERS AT THE SITE WITH REGARD TO THE CSHP WHICH THEY OPERATE.
5. THE MANNER OF DISPOSING WASTE ARISING FROM THE CONSTRUCTION.

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2 ND DISTRICT ENGINEERING OFFICE 80000, SOUTHERN LEYTE	PROJECT NAME AND LOCATION SOUTHERN LEYTE 2 ND DISTRICT ENGINEERING OFFICE 80000, SOUTHERN LEYTE	SHEET CONTENTS OTHER GENERAL REQUIREMENTS	DRAFTED DATE PREPARED DATE CHECKED DATE APPROVED DATE	REVIEWED DATE APPROVED DATE	SUBMITTED DATE APPROVED DATE	RECOMMENDED DATE APPROVED DATE	APPROVED DATE APPROVED DATE	SET NO. 4	SHEET NO. 21

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
Part B	OTHER GENERAL REQUIREMENTS - Blue Book Vol. III		
B.3(1)	Permits and Clearances	1.00	L.s
B.5 (1)	Project Billboard / Signboard	4.00	Each
B.7 (1)	Occupational Safety and Health	1.00	L.s
B.9 (1)	Mobilization / Demobilization	1.00	L.s
PART C	EARTHWORK - Blue Book Vol. III, Part III, Division I - General		
801(1)	Removal of Structure and Obstruction	1.00	L.s
803 (1)a	Structure Excavation (Common Soil)	54.00	Cu.m.
804 (1)a	Embankment from Roadway/Structure Excavation (Common Soil)	41.00	Cu.m.
804 (7)	Gravel Fill	3.00	Cu.m.
PART D	REINFORCED CONCRETE WORK - Blue Book Vol. III, Part III, Division I - General		
900 (1)c	Structural Concrete Class A 28 days, (3000 psi)	28.00	Cu.m.
901 (1)	Lean Concrete	3.20	Cu.m.
902 (1)a1	Reinforcing Steel (Deformed), Grade 40	4100.00	Kg.
903 (2)	Formworks and Falseworks	61.00	Sq.m
PART E	FINISHING & OTHER CIVIL WORKS - Blue Book Vol. III, Part III, Division II - Buildings		
	Corrugated Roofing		
1013 (2)a	Fabricated Metal Roofing Accessory gauge 26, Ridge/Hip Rolls	8.00	Ln.m
	Prepainted Metal Sheets		
1014(1)a2	Prepainted Metal Sheets, above 0.427 mm, Corrugated Type, Long Span	171.00	Sq.m
	Painting, Varnishing and Other Related Works		
1032 (1)c	Painting Works Steel	289.00	Sq.m.
	Metal Structure		
1047 (8)a	Structural Steel, Trusses	2864.00	Kgs.
1047 (8)b	Structural Steel, Purlins	1366.00	Kgs.
1047 (5)b	Metal Structure Accessories, Sagrods	45.00	Kgs.
1047 (4)a	Metal Structure Accessories,Bolts and Rods	36.00	Each
1047 (4)b	Metal Structure Accessories, Turnbuckle	8.00	Each
1047 (5)c	Metal Structure Accessories, Cross Bracing	133.00	Kgs.
1047 (5)d	Metal Structure Accessories, Steel Plates	326.00	Kgs.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
8000B SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONSTRUCTION OF A 2.00 KM. CIRCUMFERENCE RAILROAD TRACKS AND INFRASTRUCTURE
SECTION 001 - 004 (PHASE 1) LOCATED TO KUMAYAN BRIDGE
ARTERIAL - CONSTRUCTION (COMPLETION OF 004 TO 004A) SUB-001
PROJECT NUMBER: 10000000000000000000

SHEET CONTENTS
SUMMARY OF QUANTITIES

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PREPARED
DATE
CHECKED
DATE

JOSE R. BALTAZAR
ENGINEER
FEB 10 2025

REVIEWED
DATE
CHECKED
DATE

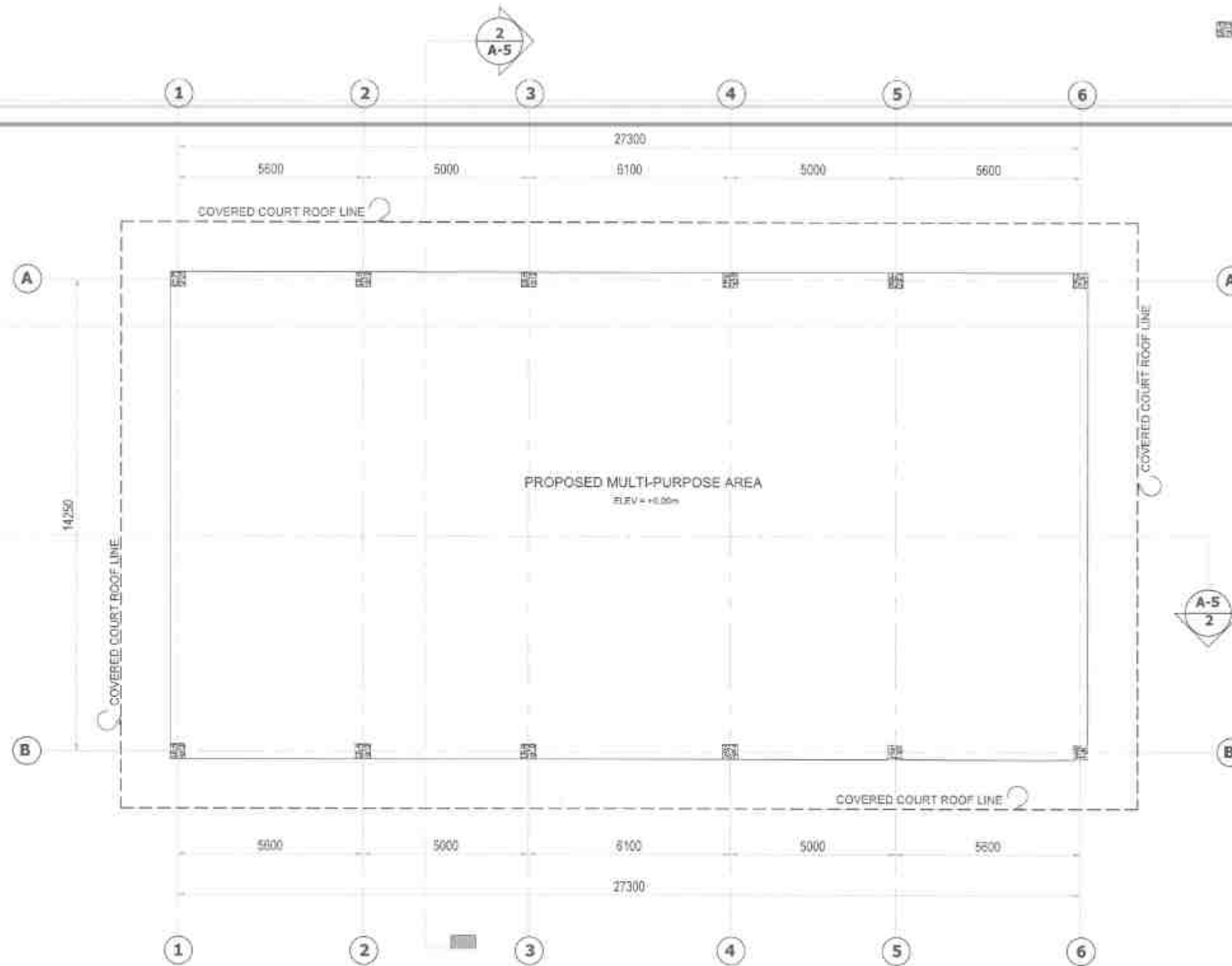
RAINIER LOLO R. RUIZ
CHIEF PLANNING & DESIGN SECTION
FEB 10 2025

RECOMMENDED
DATE
CHECKED
DATE

EDUARDO V. SANTOS
DISTRICT ENGINEER
FEB 17 2025

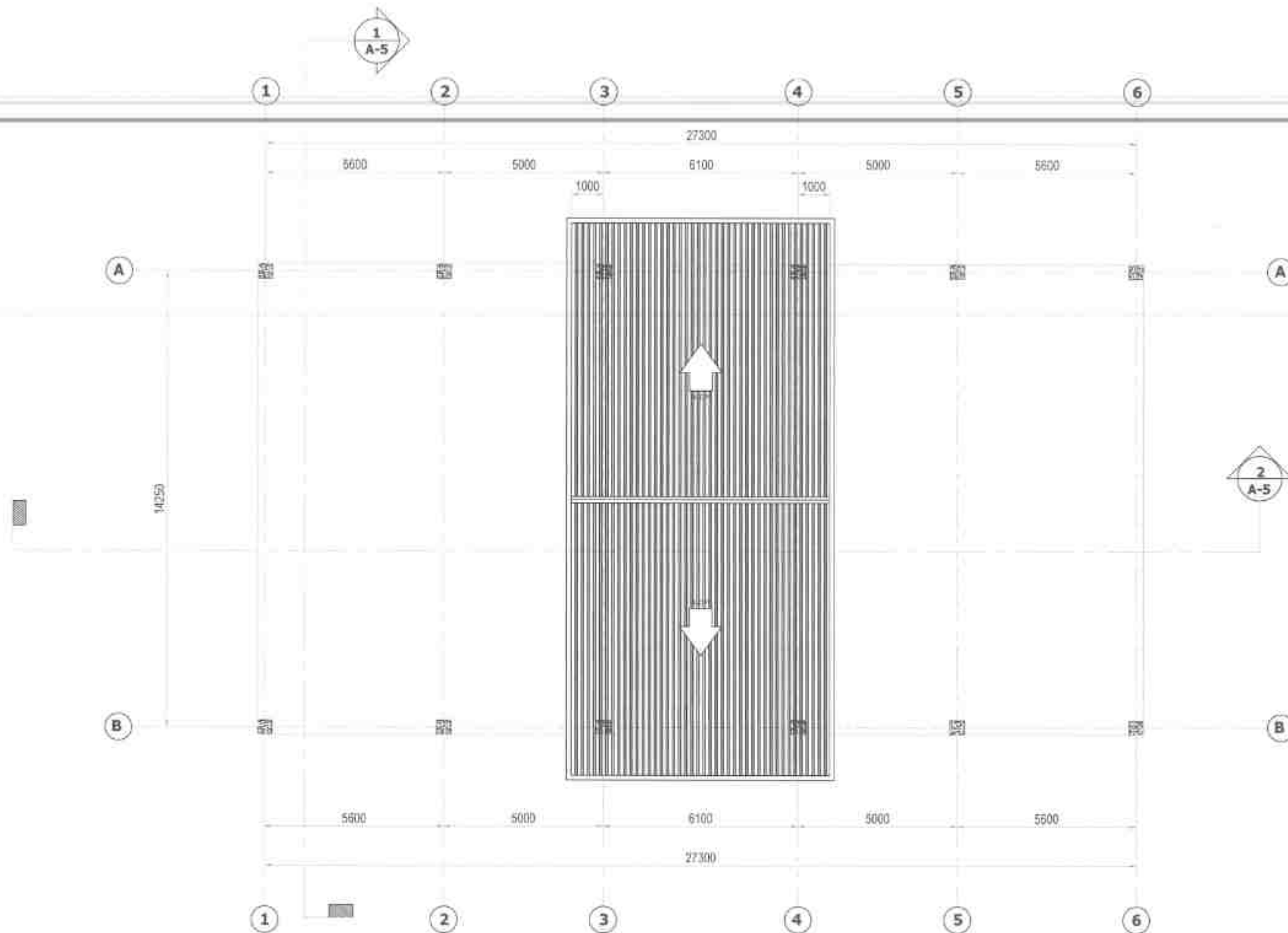
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SHEET NO.

NEW CONSTRUCTION / RETROFIT COLUMN



01 FLOOR PLAN
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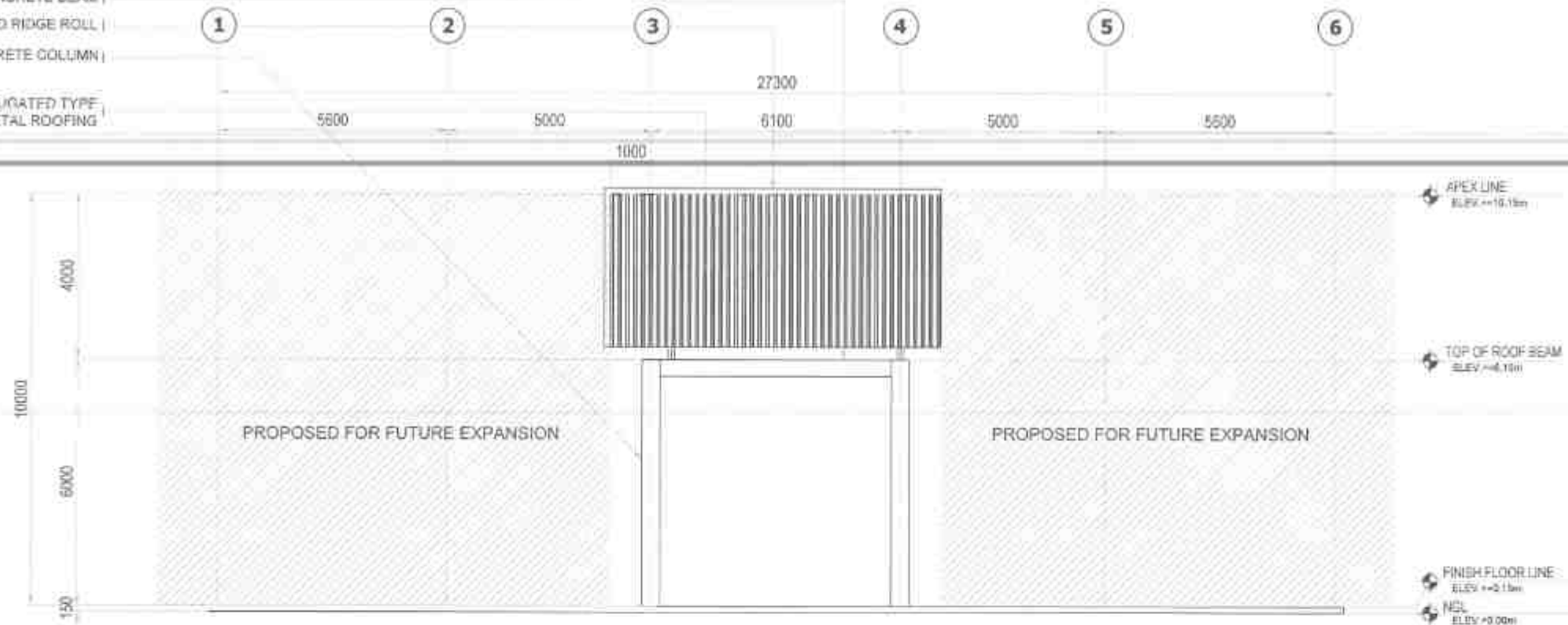
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE 30000 SOUTHERN LEYTE	PROJECT NAME AND LOCATION IMPROVEMENT AND SPECIAL SUPPORT PROGRAM - ASIST BY ARCHITECTURE PROGRAM OFF - MULTI-PURPOSE BUILDING FACILITY TO SUPPORT SOCIAL SERVICES - COMPLETION OF MULTI-PURPOSE BUILDING BRIDGEYI TALLAN, UNPAVING SOUTHERN LEYTE	SHEET CONTENTS FLOOR PLAN	DRAFTED DATE DESIGNED DATE CHECKED DATE APPROVED DATE HEAVY ENGINEERING FEB 17 2025	REVIEWED DATE DESIGNED DATE CHECKED DATE APPROVED DATE JOSEFA BALTAZAR FEB 17 2025	SUBMITTED DATE DESIGNED DATE CHECKED DATE APPROVED DATE RAINIER LOPEZ FEB 17 2025	RECOMMENDED DATE DESIGNED DATE CHECKED DATE APPROVED DATE EDUARDO V. SANTOS FEB 17 2025	APPROVED DATE DESIGNED DATE CHECKED DATE APPROVED DATE EDUARDO V. SANTOS FEB 17 2025	SET NO. SHEET NO. 1 9 21
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01 ROOF PLAN
A-5 SCALE 1:1000

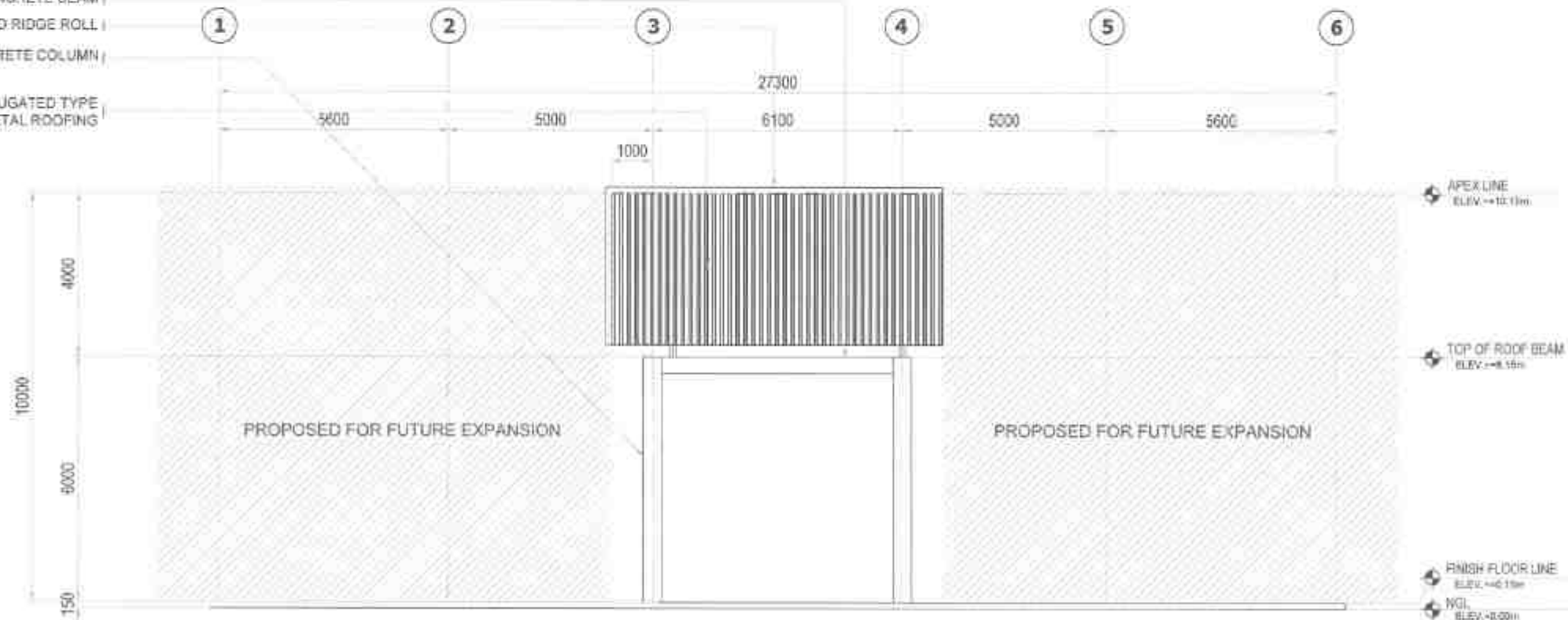
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE 80000, SOUTHERN LEYTE	PROJECT NAME AND LOCATION ENHANCEMENT AND UTILITY SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (EUSP-BIP) - ENHANCED SOLOMAN FEEDBACK TO SUPPORT CROSS SERVICES - ADMINISTRATION COMPLETION OF MULTIPURPOSE BAY BAY APPROVED: [Signature] [Signature]	SHEET CONTENTS ROOF PLAN	DRAWN [Signature] DATE FEB 17 2025	REVIEWED [Signature] DATE FEB 18 2025	VERIFIED [Signature] DATE FEB 18 2025	RECOMMENDED [Signature] DATE FEB 17 2025	APPROVED [Signature] DATE FEB 17 2025	SHEET NO. 25	SHEET NO. 25
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CONCRETE BEAM
GA. 26 PRE-PAINTED RIDGE ROLL
CONCRETE COLUMN
0.427mm THK. CORRUGATED TYPE
LONG SPAN PRE-PAINTED METAL ROOFING



01 LEFT SIDE ELEVATION
SCALE 1:100 mm

CONCRETE BEAM
GA. 26 PRE-PAINTED RIDGE ROLL
CONCRETE COLUMN
0.427mm THK. CORRUGATED TYPE
LONG SPAN PRE-PAINTED METAL ROOFING



02 RIGHT SIDE ELEVATION
SCALE 1:100 mm



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VI
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
CORRAL, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONSTRUCTION OF SPECIAL LIGHTING PROVISION - LIGHT INFRASTRUCTURE
PROGRAM (SPLIP) - AND LUMINOUS SIGNAGE INSTALLATION TO SUPPORT LOCAL
GOVERNMENT - DATA COLLECTION ACQUISITION OF ROAD LIGHTING SYSTEMS
BARANGAY: CALABANZON, SOUTHERN LEYTE

SHEET CONTENTS

LEFT SIDE ELEVATION
RIGHT SIDE ELEVATION

DRAWN BY

JEANNE B. SANTIAGO
ARCHITECT
DATE: FEB 07 2025

REVIEWED BY

JOSUE B. LACAYO
ENGINEER
DATE: FEB 12 2025

SUBMITTED BY

RAIMUND C. RUST
ARCHITECT
DATE: FEB 10 2025

RECOMMENDED BY

EDUARDO V. SANJOSE
ASSISTANT DISTRICT ENGINEER
DATE: FEB 17 2025

APPROVED BY

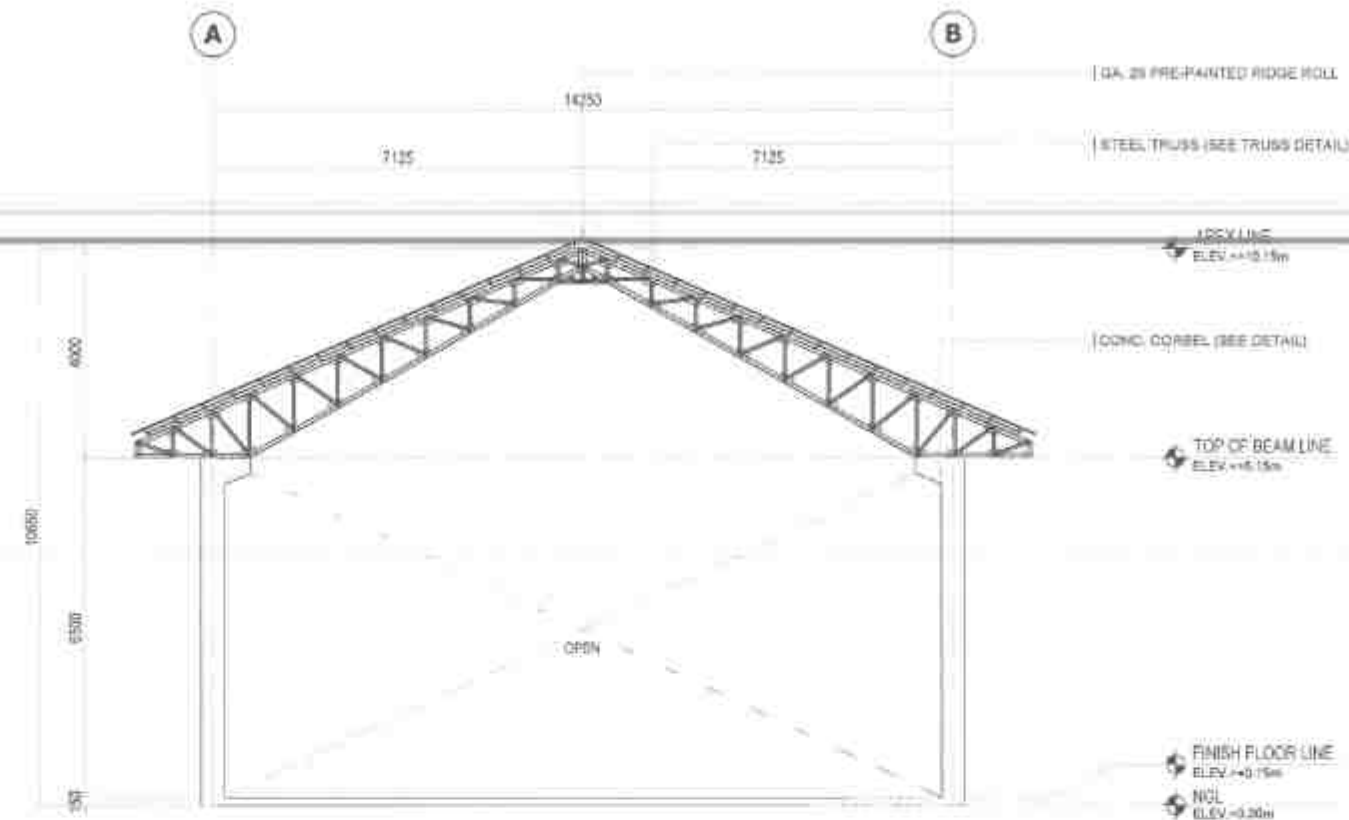
EDUARDO V. SANJOSE
DISTRICT ENGINEER
DATE: FEB 17 2025

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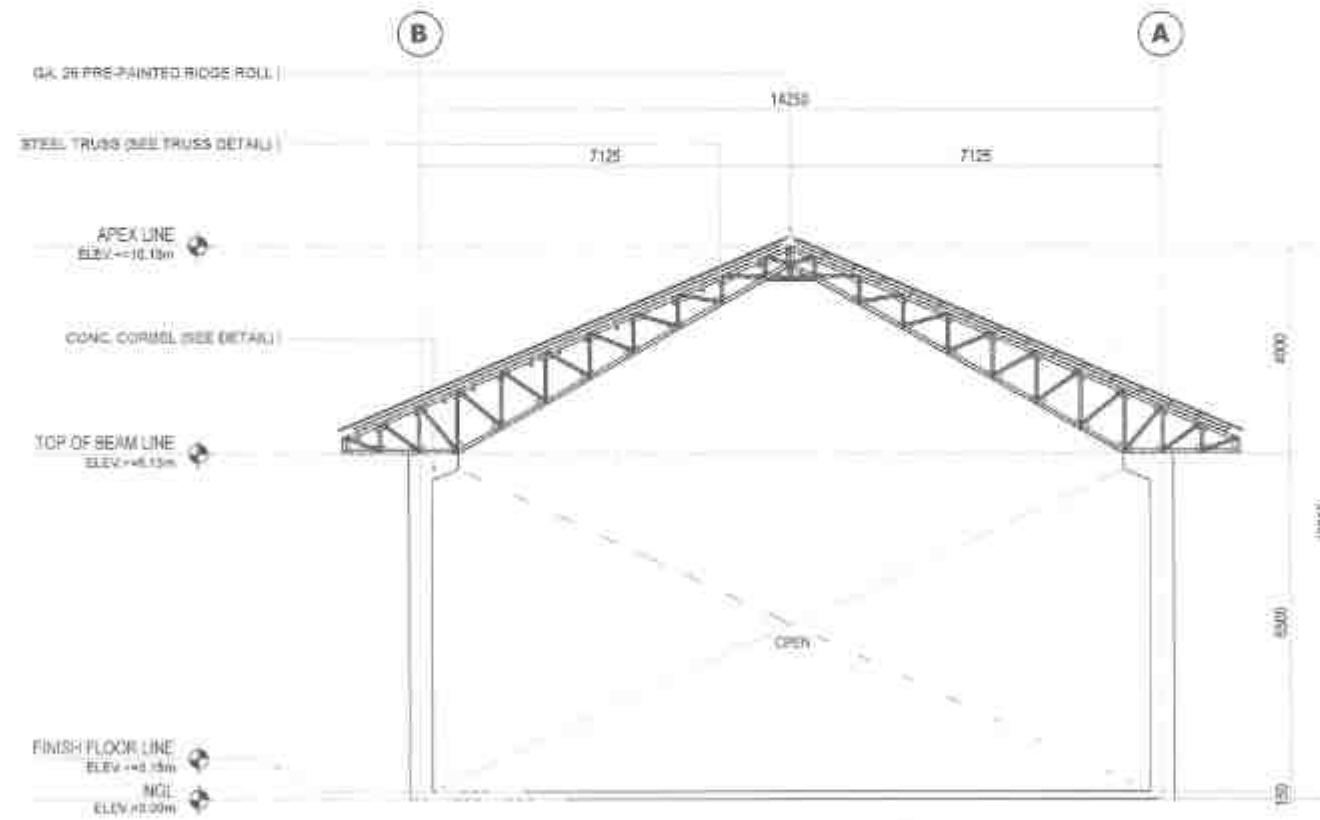
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01
A.4
SCALE: 1:100



02
A.4
SCALE: 1:100



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BUDOC SOUTHERN LEYTE

PROJECT NAME AND LOCATION:
CONSTRUCTION AND SPECIAL SUPPORT PROGRAM, ROAD INFRASTRUCTURE
PROGRAM (CSP), AND SUPPORT OF ROAD (SOP) PROJECTS TO SUPPORT LOCAL
GOVERNMENT - CONSTRUCTION SUB-PROJECT OF BUDOC SOUTHERN LEYTE

SHEET CONTENTS
FRONT ELEVATION
REAR ELEVATION

DESIGNED BY
JUNIOR C. VILLEGAS
ENGINEER
DATE
FEB 17 2025

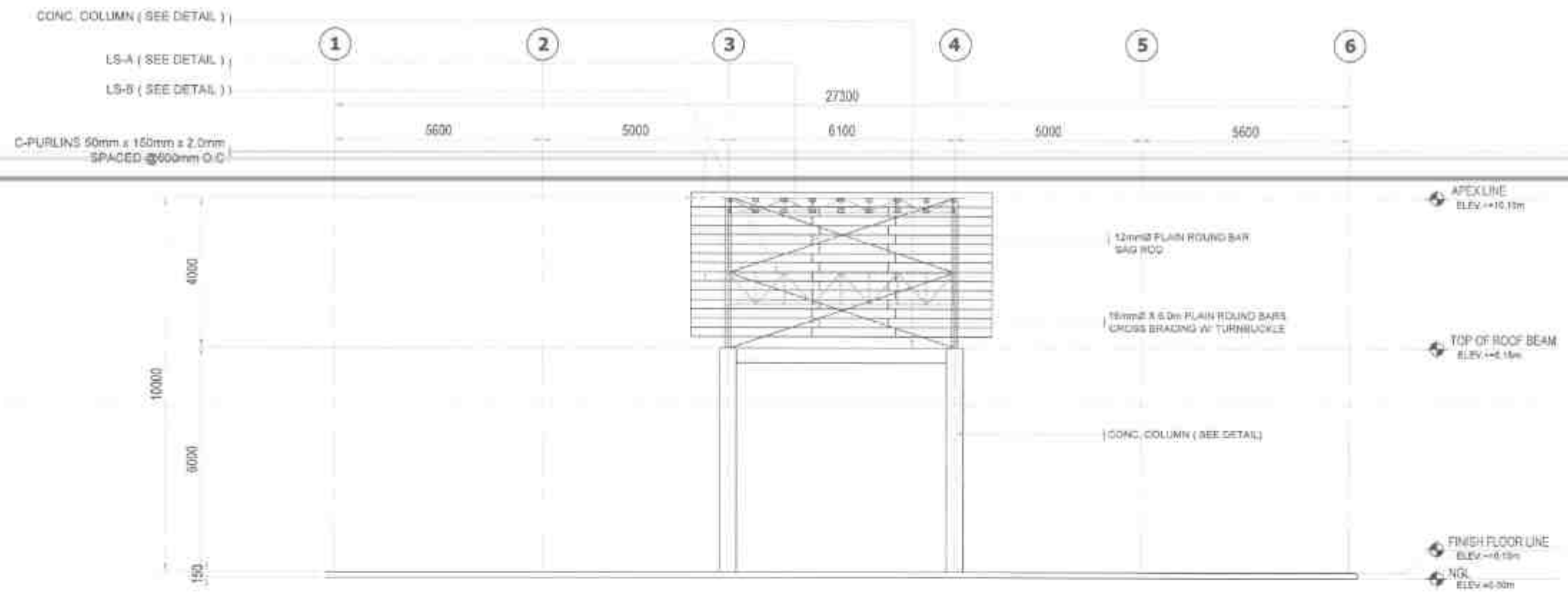
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JUNIOR C. VILLEGAS
ENGINEER
DATE
FEB 17 2025

SUBMITTED BY
RAMER JOU C. JUNE
DATE
FEB 17 2025

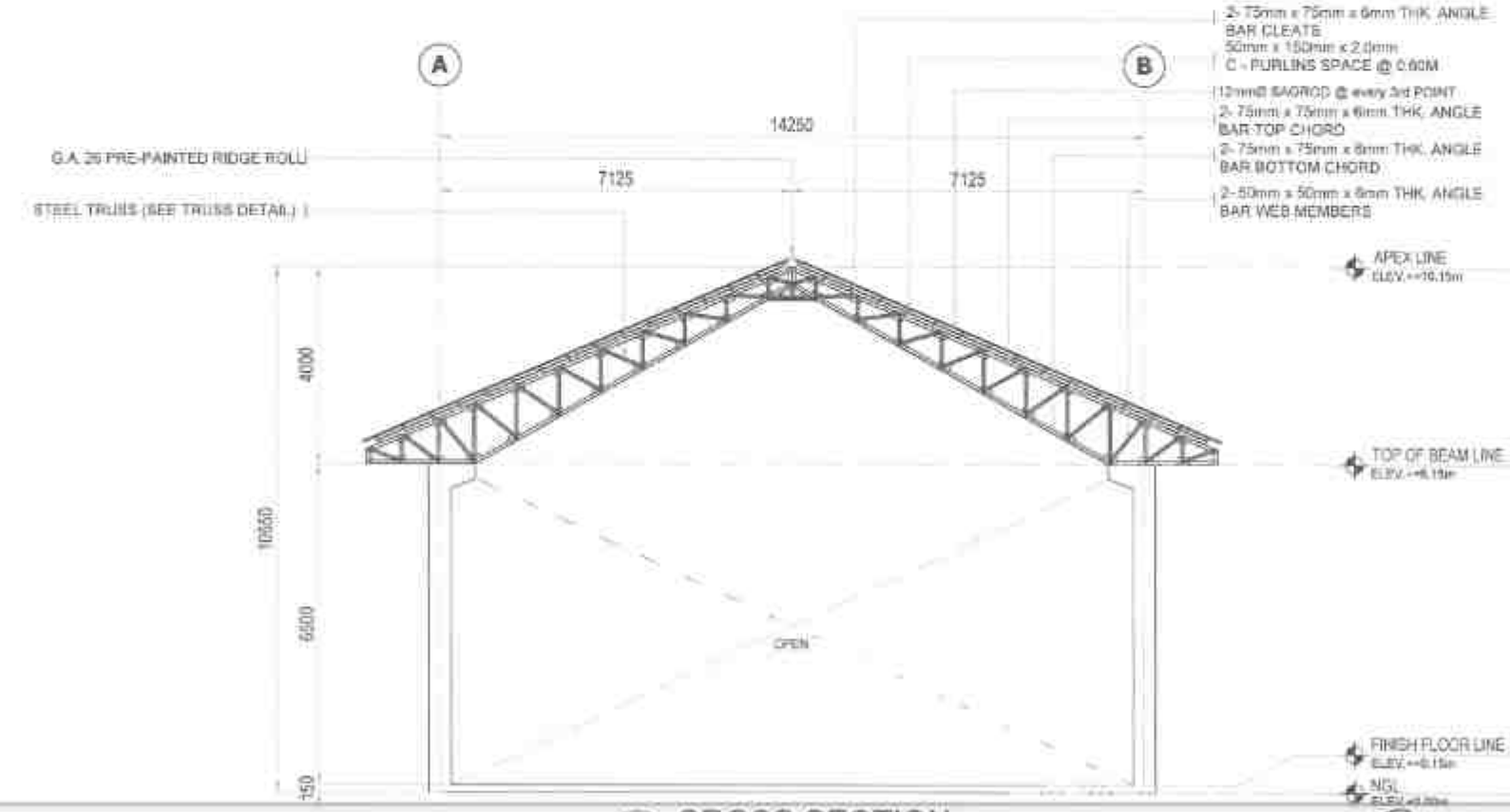
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EDUARDO V. SANTOS
DATE
FEB 17 2025

APPROVED BY
EDUARDO V. SANTOS
DATE
FEB 17 2025

DET. NO.
SHEET NO.



D1 LONGITUDINAL SECTION
SCALE: 1/100



D2 CROSS SECTION
SCALE: 1/100

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VI SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE BIDUOD, SOUTHERN LEYTE	PROJECT NAME AND LOCATION CONSTRUCTION AND SPECIAL SERVICE PROJECT - ROAD INFRASTRUCTURE PROJECT - BRIDGE (SOUTHERN LEYTE) FACILITY TO IMPROVE ROAD NETWORK (CONSTRUCTION) (SOUTHERN LEYTE) BRIDGE (SOUTHERN LEYTE) (SOUTHERN LEYTE)	SHEET CONTENTS LONGITUDINAL SECTION CROSS SECTION	DRAWN BY: <i>[Signature]</i> DATE: FEB 10 2025 CHECKED BY: <i>[Signature]</i> DATE: FEB 10 2025 APPROVED BY: <i>[Signature]</i> DATE: FEB 10 2025	REVIEWED BY: <i>[Signature]</i> DATE: FEB 10 2025 APPROVED BY: <i>[Signature]</i> DATE: FEB 10 2025	RECOMMENDED BY: <i>[Signature]</i> DATE: FEB 10 2025 APPROVED BY: <i>[Signature]</i> DATE: FEB 10 2025	RECOMMENDED BY: <i>[Signature]</i> DATE: FEB 10 2025 APPROVED BY: <i>[Signature]</i> DATE: FEB 10 2025	RECOMMENDED BY: <i>[Signature]</i> DATE: FEB 10 2025 APPROVED BY: <i>[Signature]</i> DATE: FEB 10 2025	SHEET NO. 10 SHEET NO. 21
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CONSTRUCTION GENERAL NOTES

A. GENERAL

1. CONSTRUCTION NOTES & TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION & PLACING DIAGRAM OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN. CHECK WITH MECHANICAL & ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE. SHORINGS & BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENT

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI - 318)
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMP AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS & SLAB ON GRADE EXCEPT FOUND.	3,000 PSI	1 IN. (25MM.)	4 IN. (100MM)
FOUNDATION & RETAINING WALL	3,000 PSI	3/4 IN. (19MM.)	4 IN. (100MM)
ALL OTHERS INCLUDING BEAMS			
SUSPENDED SLABS & COLUMNS	3,000 PSI	3/4 IN. (19MM.)	4 IN. (100MM)

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33KSI FOR MAINBAR, LATERAL TIES & STIRRUPS
4. IN GENERAL, THE LATEST EDITION OF ACI-318, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20MM
SLAB ON GRADE	40MM
WALLS ABOVE GRADE	25MM
BEAM STIRRUPS	25MM
COLUMN TIES	40MM

WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS

FOOTINGS 75MM

6. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPlice & ANCHORAGE LENGTH). WHEN SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED
7. ALL ANCHOR BOLTS, DOWELS, & OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

8. CONTRACTOR SHALL NOTE & PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT, & MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, & MECHANICAL DRAWINGS.

9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

10. STRIPPING OF FORMS & SHORES:

FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	15 DAYS
WALLS	16 HRS.
BEAMS	14 DAYS
COLUMNS	7 DAYS

C. MASONRY & CONCRETE BLOCKS

1. ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 5.90 MPa, SHALL BE DEVELOPED.
2. PROVIDE 1-Ø 16 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS & EACH SIDE OF OPENINGS.
3. LINTEL BEAMS SHALL BEAR AT LEAST 8 INCHES (200 MM.) ON EACH SIDE OF MASONRY WALL OPENING.
4. WALL REINFORCEMENTS (UNLESS INDICATED) SHALL BE AS FOLLOWS:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200 MM.)	Ø 12 @ 400 MM.	Ø 10 @ 600 MM.
6 IN. (150 MM.)	Ø 10 @ 600 MM.	Ø 10 @ 600 MM.
4 IN. (100 MM.)	Ø 10 @ 600 MM.	Ø 10 @ 600 MM.
5. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICED. DOWELS FROM CONCRETE FOOTINGS OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETERS, & DOWELS TO MATCH VERTICAL REINFORCEMENTS OF WALL.
6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT.

D. NOTES ON FOUNDATION

1. FOOTING SIZES WERE DESIGNED BASED ON ASSUMED BEARING CAPACITY OF 150KPA. PLEASE CONDUCT SOIL INVESTIGATION PRIOR TO CONSTRUCTION. IF THE SOIL IS SAND OR CLAY PLEASE INFORM THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION TO REDESIGN THE FOOTING.
2. FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED & PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.
4. FOOTING CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AT LEAST $f_c = 3000 \text{ psi}$ or 20.7 Mpa .
5. FOOTING REINFORCEMENT SHALL BE GRADE 60 or $f_y = 40,000 \text{ psi} / 275 \text{ MPa}$.
6. ANY CHANGES IN THE FOUNDATION DEPTH SHALL BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION.
7. FOUNDATION CONCRETE SHALL BE POURED OVER A BASE COURSE CONSISTING OF 50mm CRUSHED AND COMPACTED GRAVEL BED AND 75mm LEAN CONCRETE.



OFFICE OF THE REGIONAL ENGINEER
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
30001 SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONSTRUCTION AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE
REPAIRS - SOUTHERN LEYTE PROVINCE - SOUTHERN LEYTE DISTRICT
SOUTHERN LEYTE - SOUTHERN LEYTE DISTRICT

SHEET CONTENTS
CONSTRUCTION GENERAL NOTES

DESIGNED BY
JURGEN C. VALLE
DATE
FEB 17 2025

REVIEWED BY
JOSUE B. AZAR
DATE
FEB 17 2025

SUBMITTED BY
RAINIERA M. C. DIAZ
DATE
FEB 17 2025

RECOMMENDED BY
EVELYN M. DIAZ
DATE
FEB 17 2025

APPROVED BY
EDUARDO V. BAYTOS
DATE
FEB 17 2025

SHEET NO.
12
OF
21

E. NOTES ON COLUMNS

1. COLUMN CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AT LEAST $f_c = 3500 \text{ psi} / 24 \text{ Mpa}$.
2. COLUMN REINFORCEMENT SHALL BE GRADE 60 or $f_y = 80,000 \text{ psi} / 414 \text{ Mpa}$ for Mainbar and Grade 40 or $f_y = 40,000 \text{ psi} / 275 \text{ Mpa}$ for Secondary Bars (ties and stirrups).
3. COLUMN REINFORCEMENT SHALL BE SPLICED ONLY WITHIN THE MIDDLE THIRDS OF THE CLEAR HEIGHT OR OUTSIDE THE DISTANCE OF 500mm FROM FLOOR OR BEAM SOFFIT.
4. ALL COLUMN REINFORCEMENT SPLICING SHALL BE STAGGERED AT A DISTANCE OF 600mm.
5. COLD JOINTS SHALL BE ALLOWED ONLY OUTSIDE A DISTANCE OF 700mm FROM FLOOR OR BEAM SOFFIT.
6. PROVIDE ADEQUATE CONTROL JOINTS FOR ALL CONCRETE COLD JOINTS.
7. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINF. SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES at 100mm SHALL BE PROVIDED THRU OFFSET REGION..
8. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 times BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.

F. NOTES ON BEAMS

1. BEAMS CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH ATLEAST $f_c = 3500\text{psi} / 24\text{Mpa}$.
2. BEAMS REINFORCEMENT SHALL BE GRADE 60 or $f_y = 60\,000\text{ psi} / 414\text{Mpa}$ for Mainbar and Grade 40 or $f_y = 40,000\text{ psi} / 275\text{ Mpa}$ (Ties and Stirrups).
3. BEAM REINFORCEMENT SHALL BE SPLICED ONLY IN THE FOLLOWING LOCATIONS:
 - a. TOP BARS: WITHIN MIDDLE THIRDS OF THE CLEAR SPAN.
 - b. BOTTOM BARS: OUTSIDE A DISTANCE TWICE THE BEAM DEPTH FROM THE FACE OF THE COLUMN.
4. BEAM CONCRETE SHALL BE POURED MONOLITHICALLY WITH THE SLAB. NO COLD JOINTS ALLOWED.
5. NO ELECTRICAL/PLUMBING PIPES AND CONDUITS SHALL BE MADE TO PASS THROUGH ANY STRUCTURAL MEMBER. PROVIDE PIPE RACKS ATTACHED TO THE UNDERSIDE OF THE SLAB.
6. SPECIAL STIRRUPS SHALL BE PROVIDED WITHIN LAP SPLICES (Same spacing at Confinement Zone)

G. NOTES ON SLABS

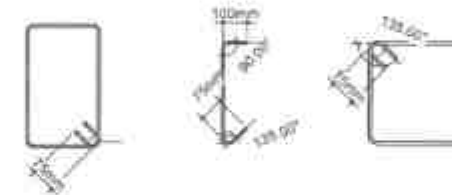
1. SLAB CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AT LEAST $f_c = 3500 \text{ psi} / 24 \text{ Mpa}$.
2. SLAB REINFORCEMENT SHALL BE GRADE 40 OR $f_y = 40,000 \text{ psi} / 275 \text{ Mpa}$.
3. SLAB CONCRETE SHALL BE POURED MONOLITHICALLY WITH THE SUPPORTING BEAMS, NO COLD JOINTS ALLOWED.
4. NO ELECTRICAL/PLUMBING PIPES AND CONDUITS SHALL BE MADE TO PASS THROUGH ANY STRUCTURAL MEMBER. PROVIDE PIPE RACKS ATTACHED TO THE UNDERSIDE OF THE SLAB.

H. STRUCTURAL JOINTS.

1. USE EPOXY BASED CEMENTITIOUS GROUT IN LIEU OF CONVENTIONAL CONCRETE FOR CONCRETE TO STEEL BEAM CONNECTION JOINTS WITHIN ZONES SPECIFIED IN THE PLAN.
- ~~2. ALL STRUCTURAL REINFORCEMENTS SHALL NOT BE FIELD BENT UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.~~

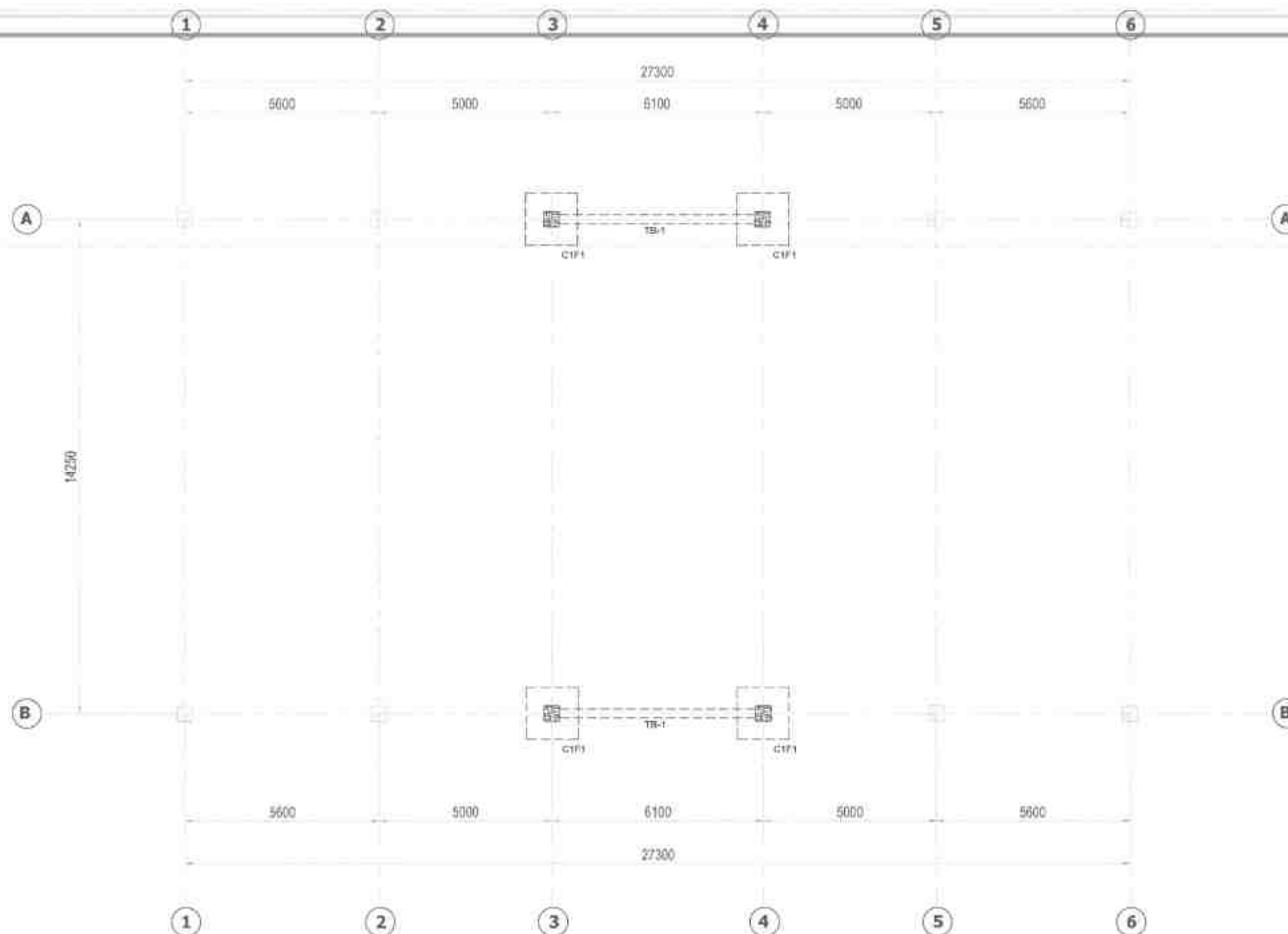
MINIMUM INSIDE BEND DIAMETER AND STANDARD
HOOK LENGTH FOR STIRRUPS, TIES AND HOOPS

BAR DIAMETER	MINIMUM INSIDE BEND DIAMETER	HOOK LENGTH
10MM	40MM	100MM
12MM	48MM	105MM



MINIMUM INSIDE BEND DIAMETER, STANDARD HOOK AND SPLICE LENGTH FOR DEFORMED BARS

BAR DIAMETER	MINIMUM INSIDE BEND DIAMETER	HOOK LENGTH	SPLICE LENGTH
10mm	60mm	160mm	300mm
12mm	72mm	192mm	400mm
16mm	96mm	256mm	700mm
20mm	120mm	320mm	900mm



01 FOUNDATION PLAN
S-3 SCALE 1:1000



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VI
SOUTHERN LEYTE 2nd DISTRICT
ENGINEERING OFFICE
RODAS, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
IMPROVEMENT AND SPECIAL SUPPORT PROGRAM - BANGKAYAN
MUNICIPALITY - MULTIPURPOSE BUILDING INCLUDING 70 SUPPORT LOCAL
BUSINESS - RECONSTRUCTION/REPAIR OF MULTIPURPOSE BUILDING
Address: Tugayuan, Municipality, Bangkayan, Leyte

SHEET CONTENTS
FOUNDATION PLAN

DRAWN BY
JUNHOMER C. VILLOJO
DATE
FEB 07 2025

REVIEWED BY
DATE
FEB 10 2025

SUBMITTED BY
RAIMON C. RUIZ
DATE
FEB 13 2025

RECOMMENDED BY
RUEL D. YAP
DATE
FEB 14 2025

APPROVED BY
EDUARDO V. JAVIER
DATE
FEB 17 2025

SET NO. 8
SHEET NO. 18
3/10
21

SCHEDULE OF FOOTING

FOOTING NO.	FOOTING SIZE (LENGTH x WIDTH) (m x m)	THICK (m)	ALONG LENGTH	ALONG WIDTH	DEPTH OF EXCAVATION	REMARKS
F1	2.50 x 2.50	0.45	18-20mmØ	18-20mmØ	2.00 m	SQUARE FOOTING



01
0-3
TYPICAL COLUMN FOOTING DETAIL
SCALE 1:50 mm

SCHEDULE OF TIE BEAMS

MARK	DIMENSION (mm)		BAR Ø (mm)	STEEL REINFORCEMENTS						WEB/ TORSION BARS (12mmØ)	STIRRUPS
				LEFT SUPPORT		MID SPAN		RIGHT SUPPORT			
	B	D		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		
TB-1	250	400	16	3		3		3		-	A
					2		2		2		

A = 10mmØ STIRRUPS: 1 @ 50, 12 @ 75, REST @ 150 TO C.L. (2-LEGS)



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BODOK, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
SCHEDULE OF TIE BEAMS
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BODOK, SOUTHERN LEYTE

SHEET CONTENTS
SCHEDULE OF TIE BEAMS
TYPICAL COLUMN FOOTING DETAIL
SCHEDULE OF TIE BEAMS

DRAFTED
JUNROMEC VILLOJO
DATE
FEB 17 2025

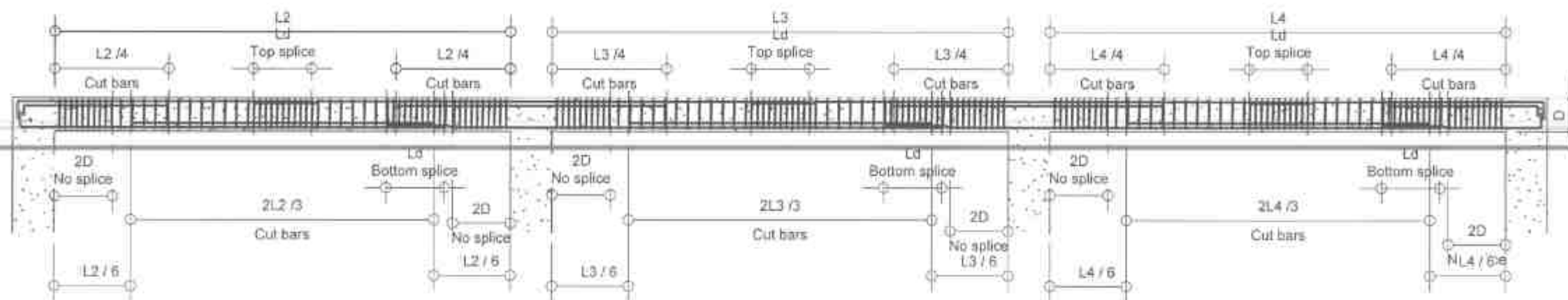
REVIEWED
JOSE A. BALTAZAN
DATE
FEB 17 2025

QUANTITY
RAINFALL C. NIZ
DATE
FEB 17 2025

RECOMMENDED
DATE
FEB 17 2025

APPROVED
EDUARDO V. SANDOS
DATE
FEB 17 2025

EST NO.
SHEET NO.
15
21

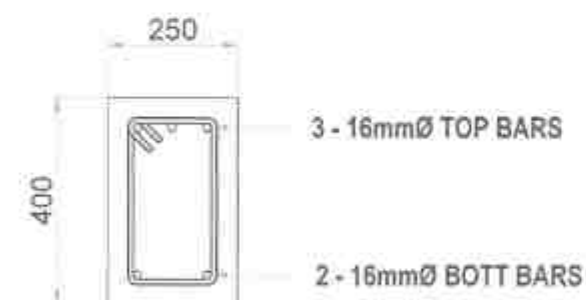


01
S-3
TYPICAL DUCTILE MOMENT FRAME DETAIL
1:50 mm

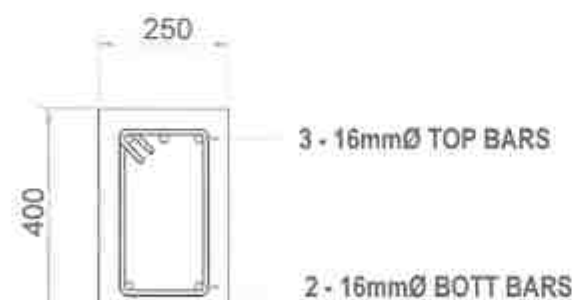
SCHEDULE OF ROOF BEAMS

MARK	DIMENSION (mm)		BAR Ø (mm)	STEEL REINFORCEMENTS						WEB/ TORSION BARS (12mmØ)	STIRRUP
	B	D		LEFT SUPPORT		MID SPAN		RIGHT SUPPORT			
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		
RB-1	300	400	16	5		3		5		-	A
					3		5		3		

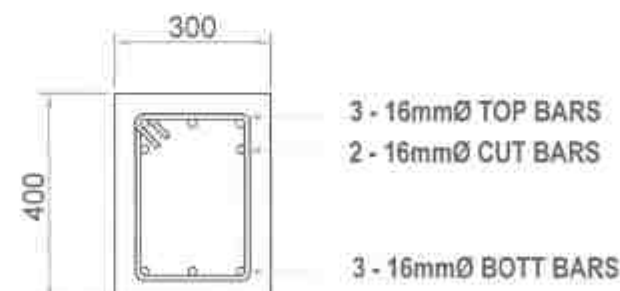
A = 10mmØ STIRRUPS: 1 @ 50, 12 @ 75, REST @ 150 TO C.L. (2-LEGS)



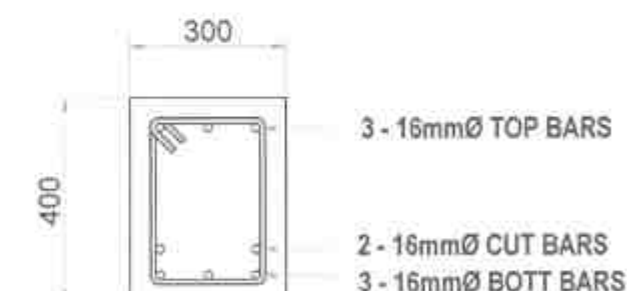
TB-1 @ SUPPORT



TB-1 @ MIDSPAN



RB-1 @ SUPPORT



RB-1 @ MIDSPAN



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
8000C SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONSTRUCTION AND SPECIAL INSPECTION DIVISION, ASSESSMENT AND REPAIR DIVISION, AND STRUCTURAL DIVISION, DIVISION OF CIVIL ENGINEERING, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, REGION VII
SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE

SHEET CONTENTS
TYPICAL DUCTILE MOMENT FRAME DETAIL
SCHEDULE OF ROOF BEAMS
BEAM SECTION

DESIGNED BY
JUAN CARLOS V. VILLALBA
ENGINEER
DATE
FEB 17 2025

REVIEWED BY
JUAN CARLOS V. VILLALBA
ENGINEER
DATE
FEB 17 2025

APPROVED BY
JUAN CARLOS V. VILLALBA
ENGINEER
DATE
FEB 17 2025

RECEIVED BY
EVLIN S. VILLALBA
ASSISTANT DISTRICT ENGINEER
DATE
FEB 17 2025

APPROVED BY
EDUARDO V. SANTOS
DISTRICT ENGINEER
DATE
FEB 17 2025

SHEET NO.
5
SHEET NO.
16

SCHEDULE OF COLUMN

TIE BEAM TO ROOF BEAM

#20 450 450	
VERTICAL REBARS	12-20mmØ
REBAR TIES	10mmØ
JOINT TIES	3sets - 4 @ 100mm O.C.
CONFINED TIES	3sets - 8 - @ 75mm O.C.
UNCONFINED TIES	3sets - REST @ 150mm O.C.

FOUNDATION TO TIE BEAM

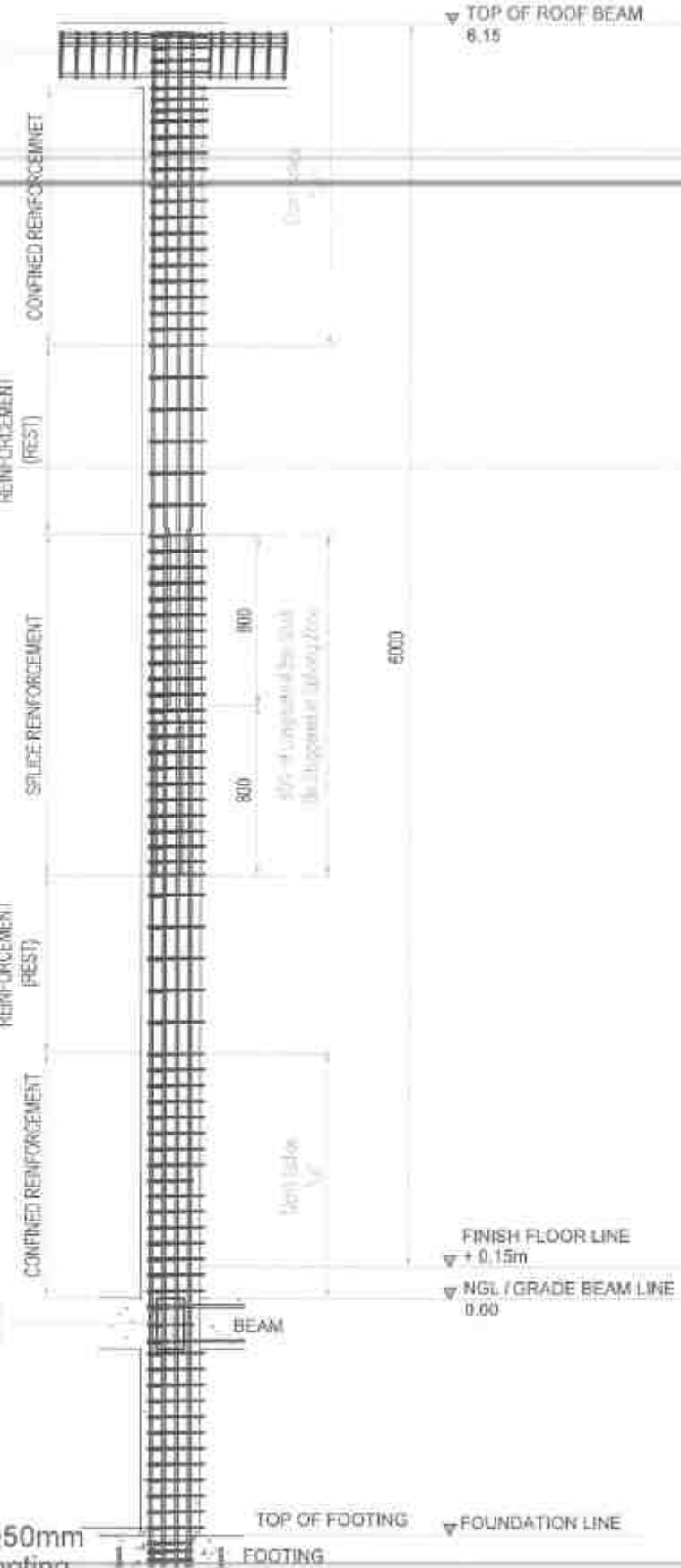
#20 450 450	
VERTICAL REBARS	12-20mmØ
REBAR TIES	10mmØ
JOINT TIES	3sets - 4 @ 100mm O.C.
CONFINED TIES	3sets - 8 - @ 75mm O.C.

LOCATION	C1
MARK	

10mmØ (Beam-Column Joint Ties) spaced @ 100mm O.C

10mmØ (Beam-Column Joint Ties) spaced @ 100mm O.C

10mmØ-3@50mm (Column-Footing Joint Ties)



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VI
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BAGAS, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
IMPROVEMENT AND SPECIAL APPOINTMENT (TIE BEAM) AND INFRASTRUCTURE
PROGRAM (M.P.P.) (MUNICIPAL GOVERNMENT) TO SUPPORT LOCAL
GOVERNMENT (MUNICIPAL GOVERNMENT) OF SOUTHERN LEYTE

SHEET CONTENTS
SCHEDULE OF COLUMN
TYPICAL COLUMN ELEVATION

DRAWN BY
JUAN MIGUEL VILLALBA
DATE
FEB 17 2025

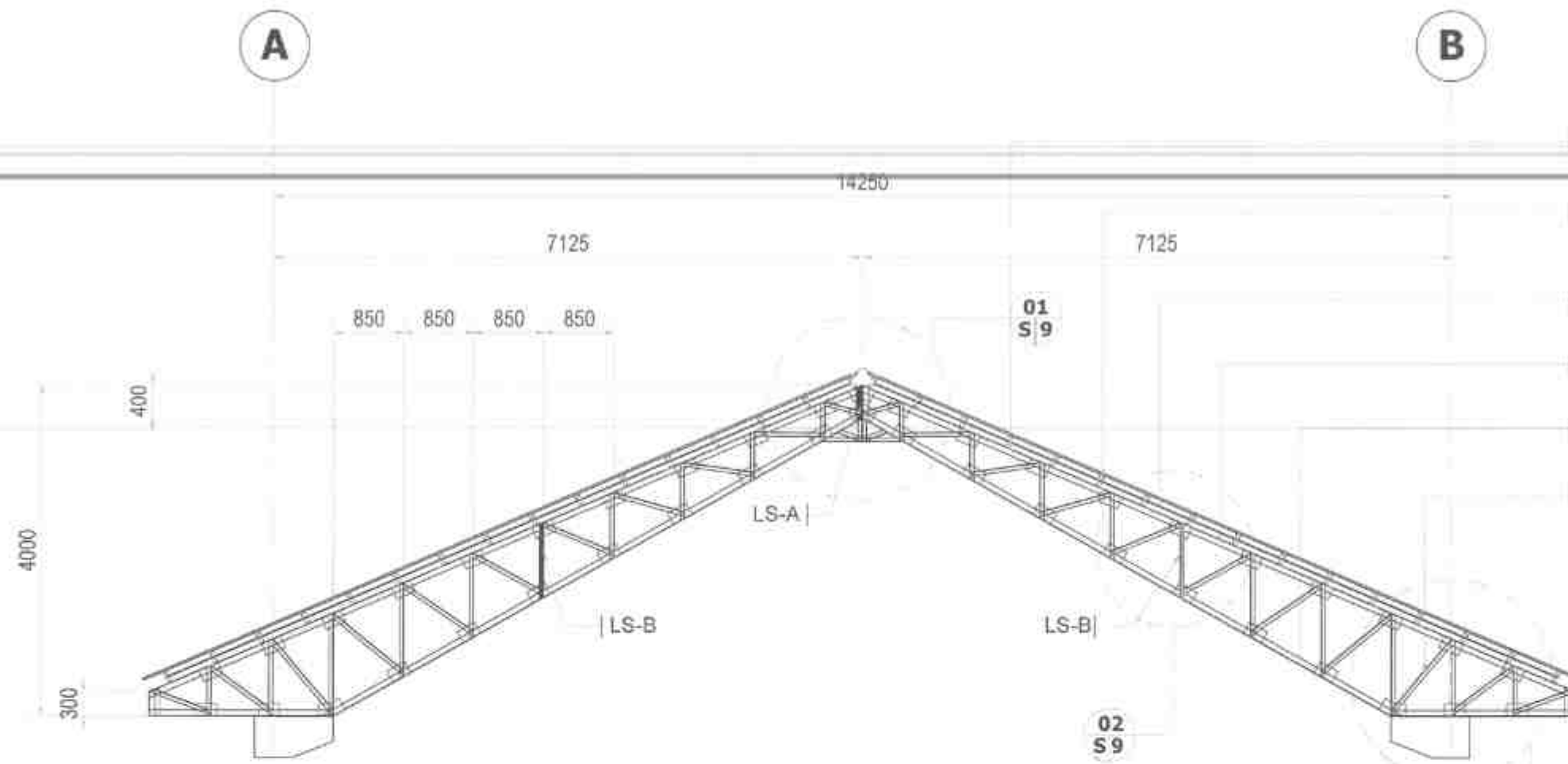
REVIEWED BY
JOSE A. SANTOS
ENGINEER
DATE
FEB 17 2025

SUBMITTED BY
RAINER C. RUIZ
CHIEF ENGINEER
DATE
FEB 17 2025

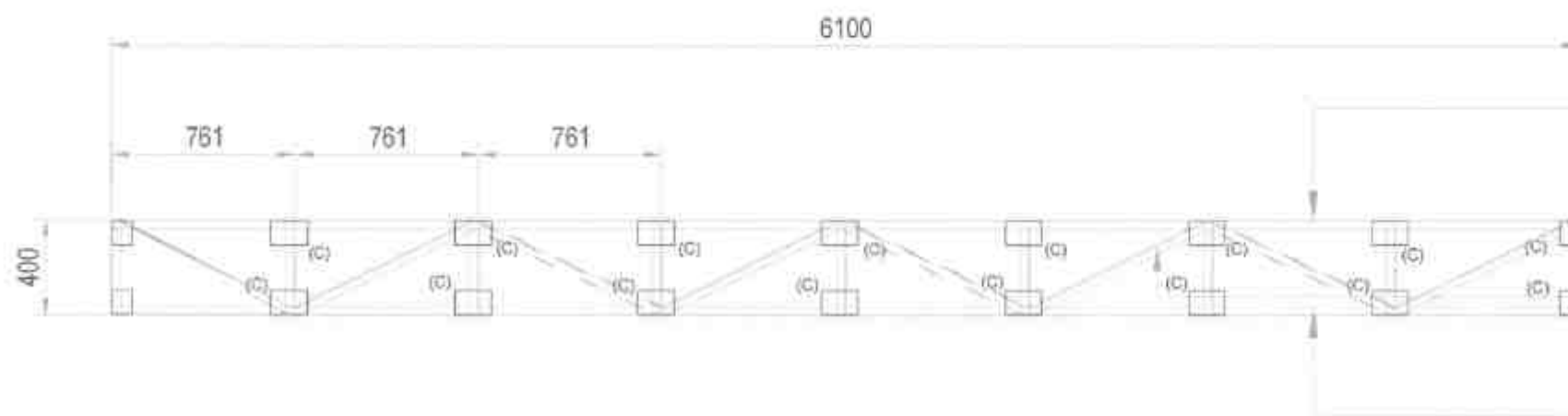
RECOMMENDED BY
EDUARDO V. JUANES
ASSISTANT CHIEF ENGINEER
DATE
FEB 17 2025

APPROVED BY
EDUARDO V. JUANES
DIRECTOR
DATE
FEB 17 2025

SHEET NO.
17
SHEET NO.
21



01 FULL TRUSS DETAIL (LS-A)



02 LATERAL STURT A DETAIL (LS-A)



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2nd DISTRICT
ENGINEERING OFFICE
30000, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
SOUTHERN LEYTE 2nd DISTRICT
ENGINEERING OFFICE
30000, SOUTHERN LEYTE

SHEET CONTENTS
FULL TRUSS DETAIL
LATERAL STURT A DETAIL (LS-A)

DRAWN BY
JUNIOR C. VILLAR
DATE
FEB 17 2025

REVIEWED BY
JUNIOR C. VILLAR
DATE
FEB 17 2025

SUBMITTED BY
JUNIOR C. VILLAR
DATE
FEB 17 2025

RECOMMENDED BY
JUNIOR C. VILLAR
DATE
FEB 17 2025

APPROVED BY
EDUARDO V. SANTOS
DATE
FEB 17 2025

SHEET NO.
5
SHEET NO.
18

0.422mm THK. CORRUGATED TYPE
LONG SPAN PRE-PAINTED
METAL ROOFING

12mmØ SAGROD @ every 3rd POINT

2-75mm x 75mm x 6mm THK. ANGLE
BAR W/ 6mm THK. GUSSET PLATE

2-50mm x 50mm x 6mm THK. ANGLE
BAR W/ 6mm THK. GUSSET PLATE

2-50mm x 50mm x 6mm THK. ANGLE
BAR W/ 6mm THK. GUSSET PLATE

G.A 26 PRE-PAINTED
RIDGE ROLL

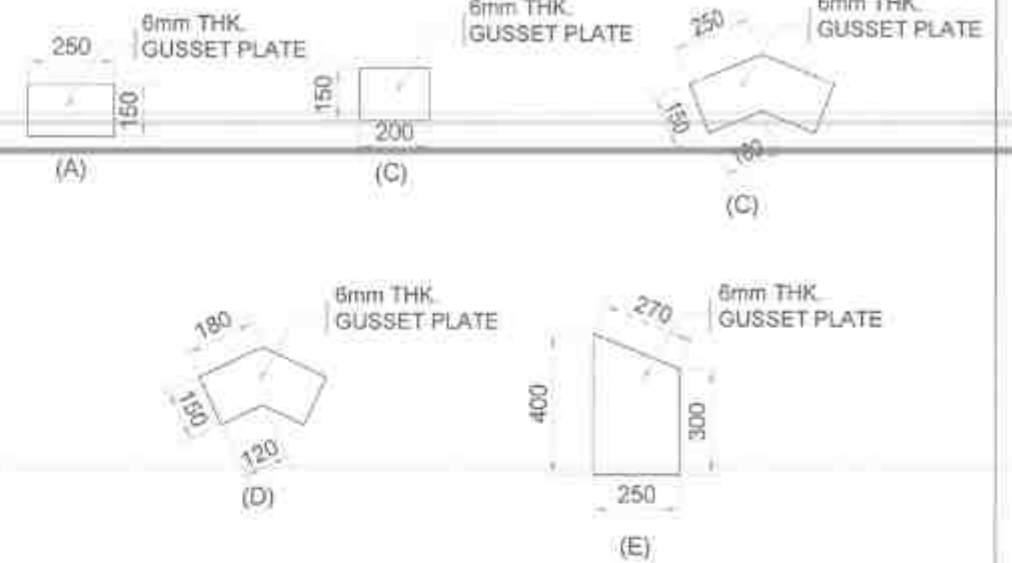
50mm x 150mm x 2.0mm
C-PURLINS SPACED @ 600mm

2 - 75mm x 75mm x 6mm ANGLE
BAR CLEATS

2 - 75mm x 75mm x 6mm ANGLE BAR TOP
CHORD W/ 6mm THK. GUSSETPLATE

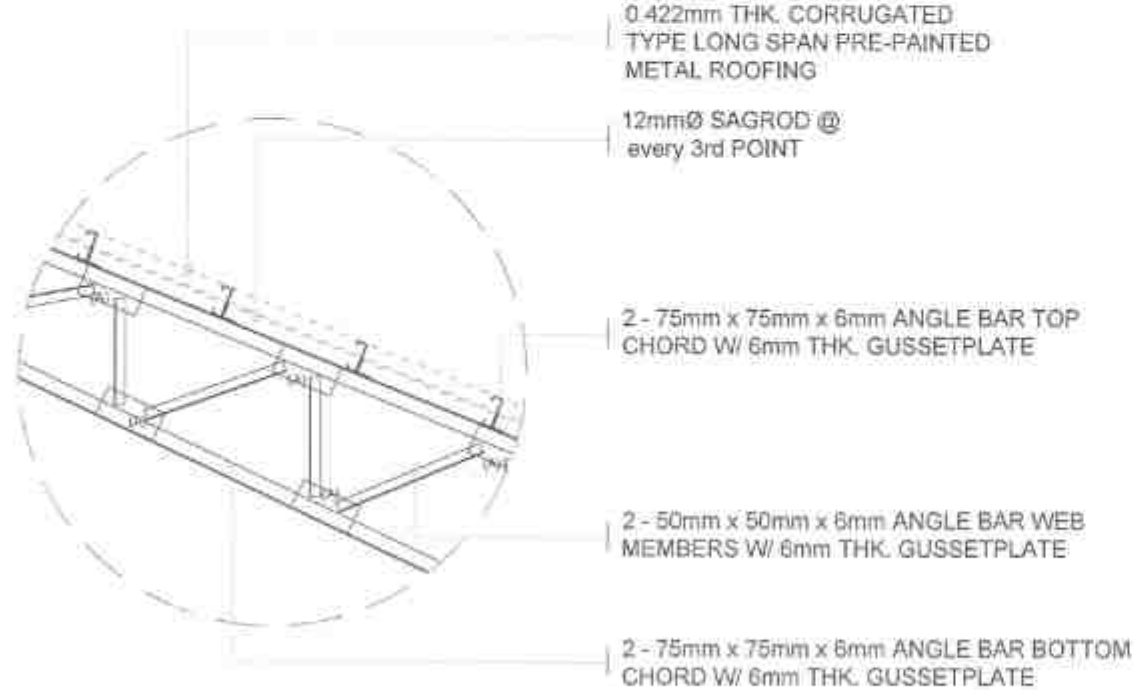
2 - 50mm x 50mm x 6mm ANGLE BAR WEB
MEMBERS W/ 6mm THK. GUSSETPLATE

2 - 75mm x 75mm x 6mm ANGLE BAR BOTTOM
CHORD W/ 6mm THK. GUSSETPLATE

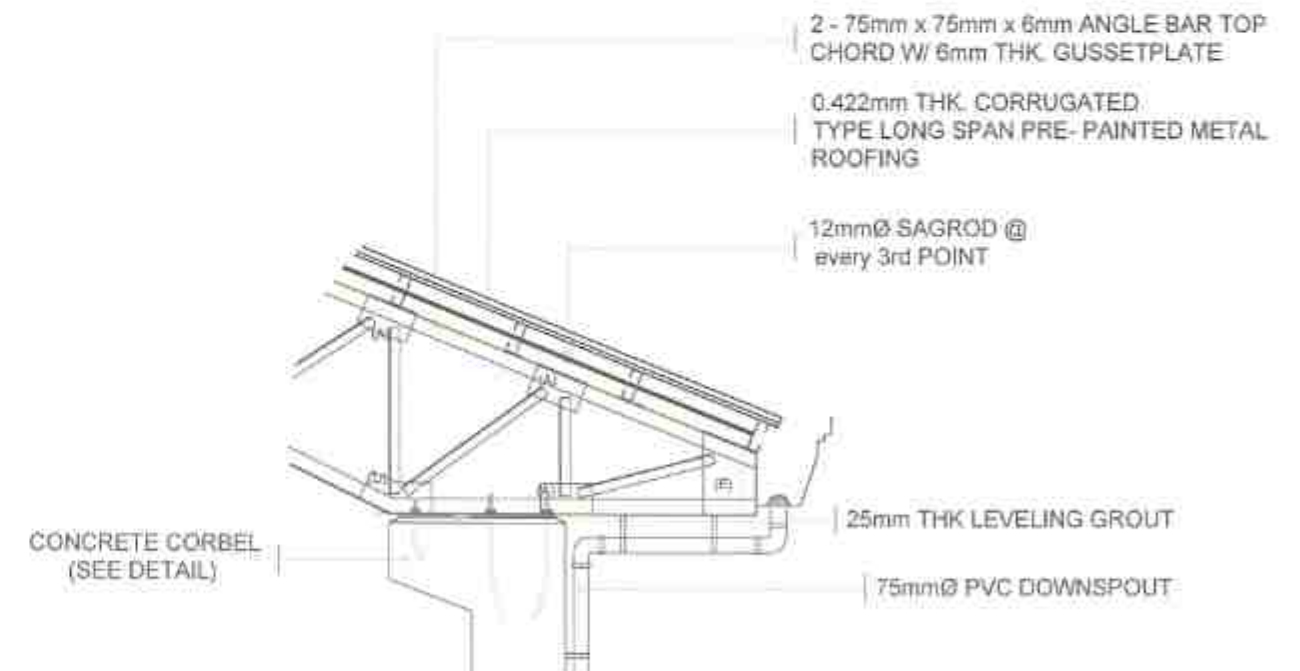


04 GUSSET PLATE DETAIL
SCALE: 1:10mm

01 SPOT DETAIL 1
SCALE: 1:25mm



02 SPOT DETAIL 2
SCALE: 1:25mm



03 SPOT DETAIL 3
SCALE: 1:25mm



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2nd DISTRICT
ENGINEERING OFFICE
BACOD-SOUTHERN LEYTE

PROJECT NAME AND LOCATION
IMPROVEMENT AND SPECIAL SUPPORT PROGRAM: ROAD INFRASTRUCTURE
PROGRAM (IMP-PIU) THROUGH SOUTHERN LEYTE TO SUPPORT
AGRICULTURE - CONSTRUCTION (CONSTRUCTION) OF RURAL INFRASTRUCTURE
SOUTHERN LEYTE, PHILIPPINES

SHEET CONTENTS
SPOT DETAIL
GUSSET PLATE DETAIL

DRAWN BY
A.E. ARANILLA
CHECKED BY
JUSOME C. VALERO
DATE
FEB 17 2025

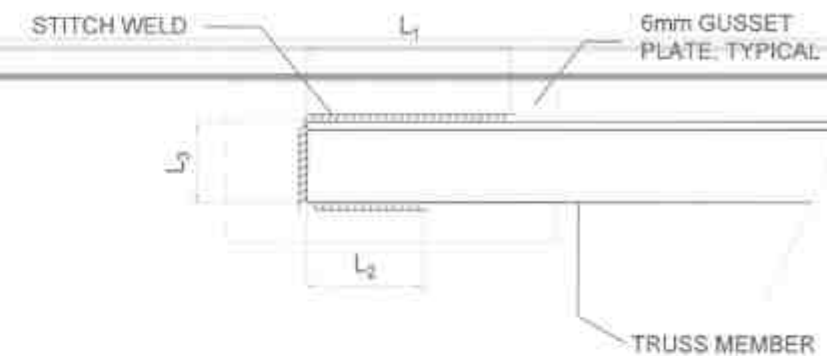
REVIEWED BY
JUSOME C. VALERO
DATE
FEB 10 2025

SUBMITTED BY
RAINIER L. C. NIZ
DATE
FEB 10 2025

RECOMMENDED BY
EVELYN Q. YAP
DATE
FEB 17 2025

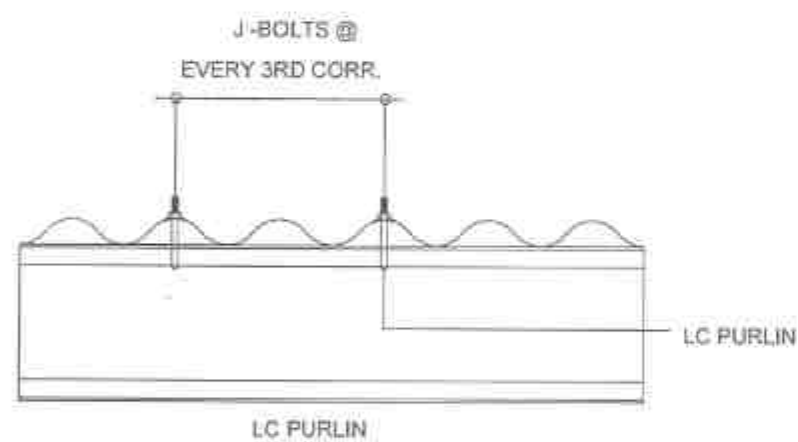
APPROVED BY
EDUARDO SANTOS
DATE
FEB 17 2025

SHEET NO.
8
SHEET NO.
21

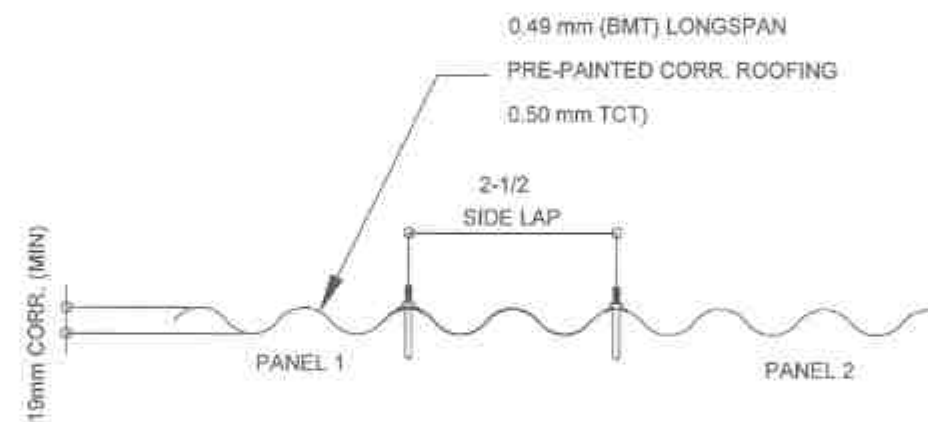


01 DETAIL CONNECTION OF PURLIN TO SAGROD
5-10 SCALE 1/8" = 1'-0"

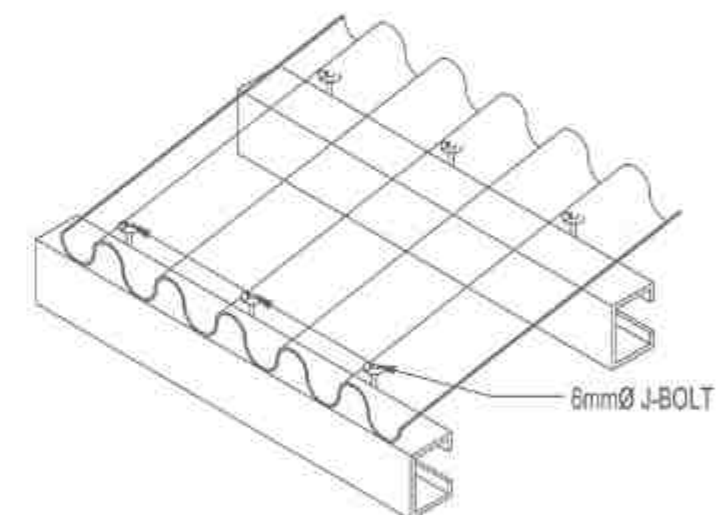
02. WELD CONNECTION DETAIL



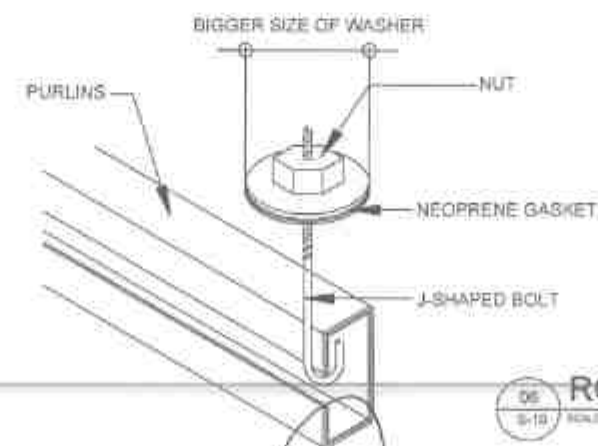
03 J-BOLT SPACING DETAIL
S-10 SCALE 1/8"=1'-0"



04 ROOF PANEL SIDE LAP DETAIL
15-10 SCALE: 1/8" = 1'-0" 1/8" = 1'-0"



05 ISOMETRIC ROOFING DETAIL
S-10 SCALE 1/8"=1'-0"



05 ROOFING-FIXER DETAIL



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
3000 SOUTHERN LEYTE

Project Name and Location

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QUEST CONTINUED

DETAIL: SUBSTITUTION OF PURLIN TO GABLED
VUEL CONNECTION (DETAIL
BOLT SPACING DETAIL)
ROOF PANEL SIDE LAP DETAIL
BRACKETING INSULATED DETAIL
ROOF PANEL FROM GABLE

11/19/2012

DATE _____
 (PREPARED)
 JUNE 1968 C. V. L. 12
 DATE _____

FIGURE 4-10

FILED
FEB 18 2005
DAVE

LAWYER

RAINIER M. C. RUIZ
CHIEF PLANNING & DESIGN SECTION
FEB 10 2005

Abstract: This study examined the effects of a 12-week, 100% body weight (BW) resistance training program on the body composition and muscle strength of 10 sedentary, middle-aged men. The subjects were divided into two groups: a control group (CG) and an exercise group (EG). The EG performed a 12-week, 100% BW resistance training program, while the CG remained sedentary. The results showed that the EG had a significant decrease in body fat percentage and an increase in muscle mass compared to the CG. The EG also had a significant increase in muscle strength compared to the CG. The results suggest that a 12-week, 100% BW resistance training program can effectively improve body composition and muscle strength in sedentary, middle-aged men.

EVELYN D. AP
 ASSISTANT DISTRICT CLERK
 FEB 17 2025

11/11/2019

EDUARDO V. SANTOS
FEB 17 2026

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