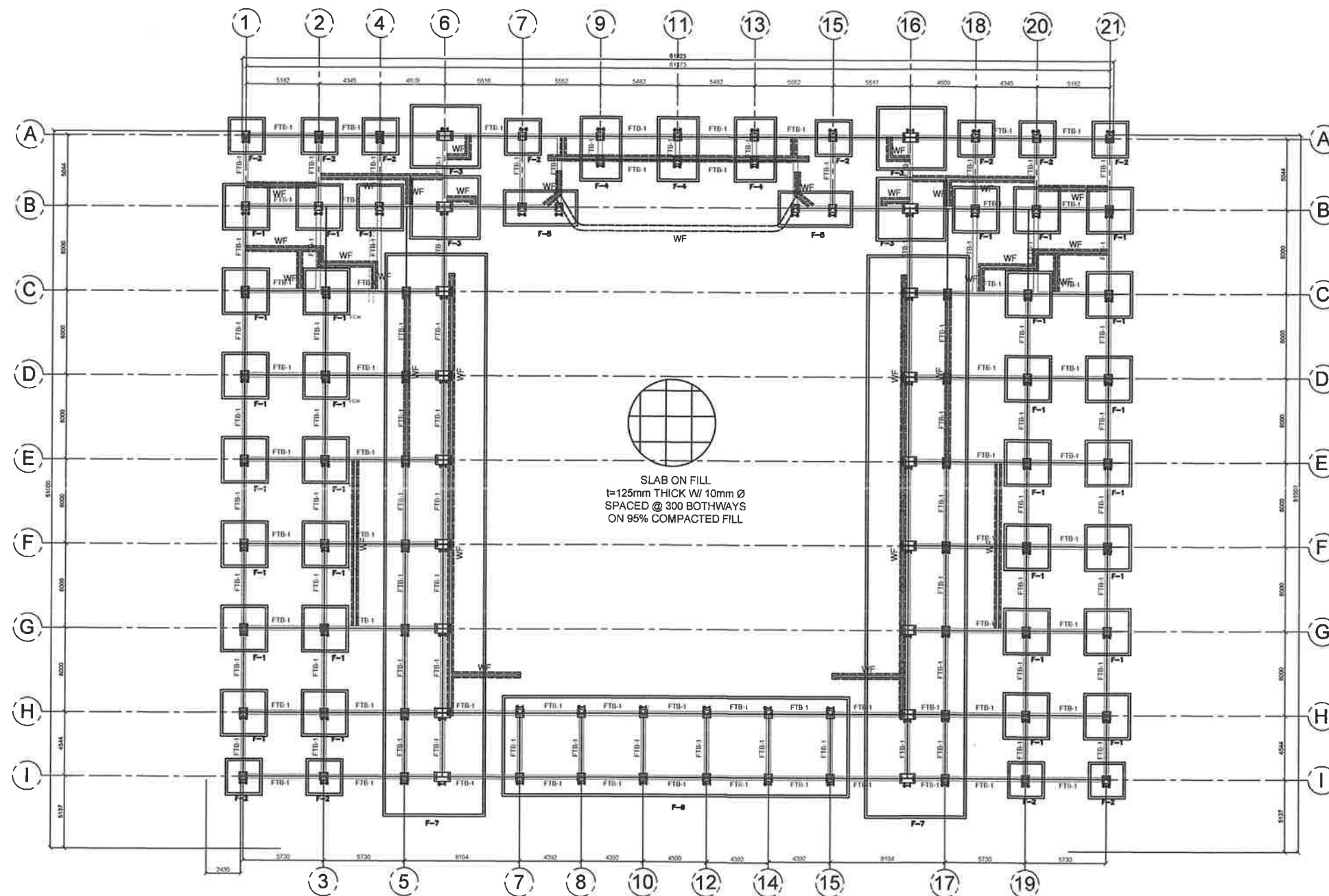




1 FOUNDATION PLAN
S-1 SCALE: 1:200 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

PROJECT TITLE/LOCATION:

CONVERGENCE AND SPECIAL SUPPORT PROGRAM,
BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:

AS SHOWN

PREPARED:

JOSEPH ERIC S. GAYONDATO
ENGINEER II

DATE:

SUBMITTED:

JOHN EDUARDO C. GONZALEZ
CHIEF, PLANNING & DESIGN SECTION

DATE:

REVIEWED:

ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION

DATE:

RECOMMENDED:

REY M. LERIS
DISTRICT ENGINEER

DATE:

APPROVED:

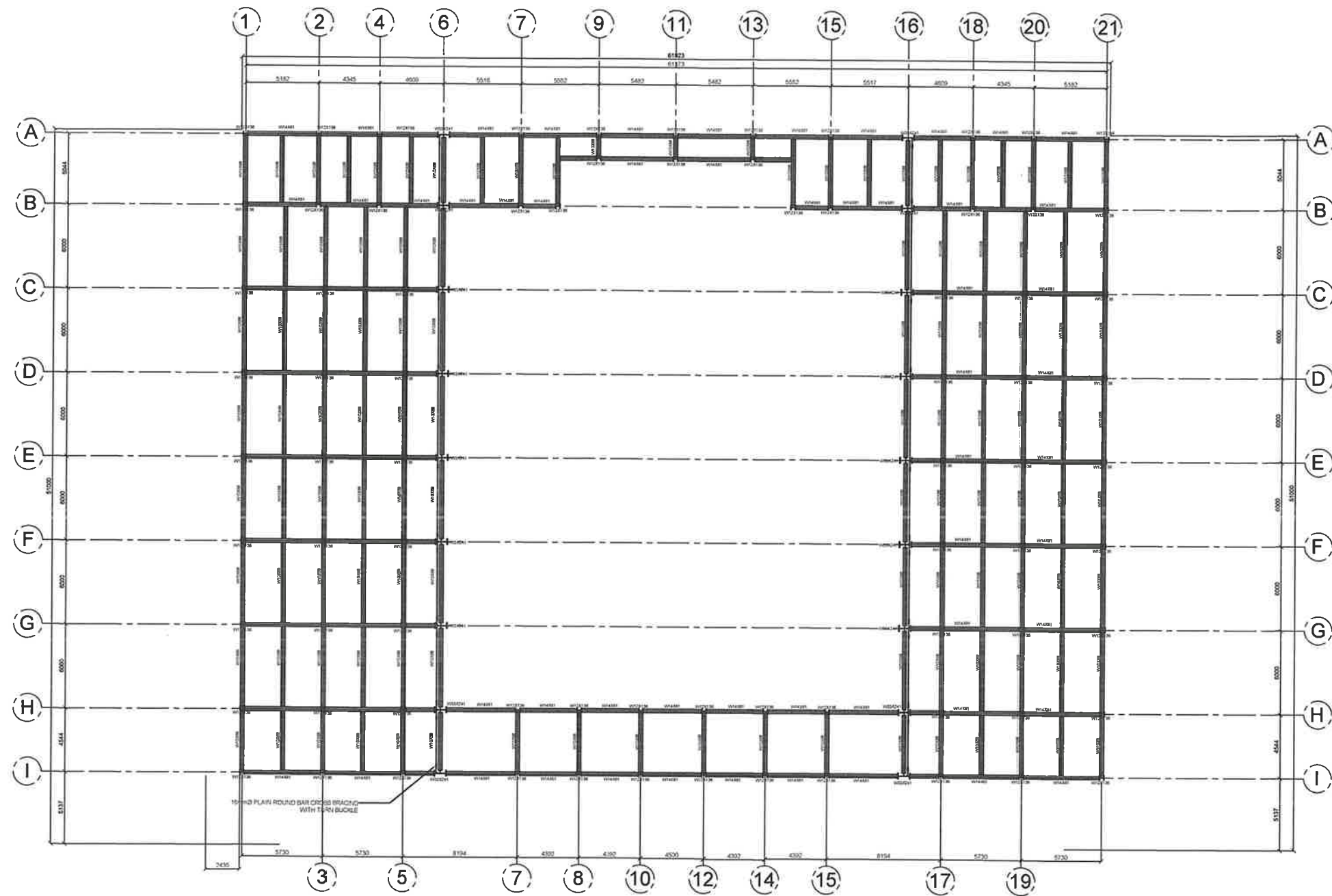
ROSE LER A. TOLENTINO
REGIONAL DIRECTOR

DATE:

SET NO.

S1-4
29 89

SHEET NO.



1 SECOND FLOOR FRAMING PLAN
S-2 SCALE: 1:200 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:

AS SHOWN

PREPARED:

JOSEPH ERIC M. RAYONATO
ENGINEER

DATE:

SUBMITTED:

JOHN JERICO G. LADRINGAN
CHIEF, PLANNING & DESIGN SECTION

DATE:

REVIEWED:

ARTHUR Q. SANTOS
CHIEF, PLANNING & DESIGN DIVISION

DATE:

RECOMMENDED:

REY M. LERIO
DISTRICT ENGINEER

DATE:

APPROVED:

ROSEIL A. TOLENTINO
REGIONAL DIRECTOR

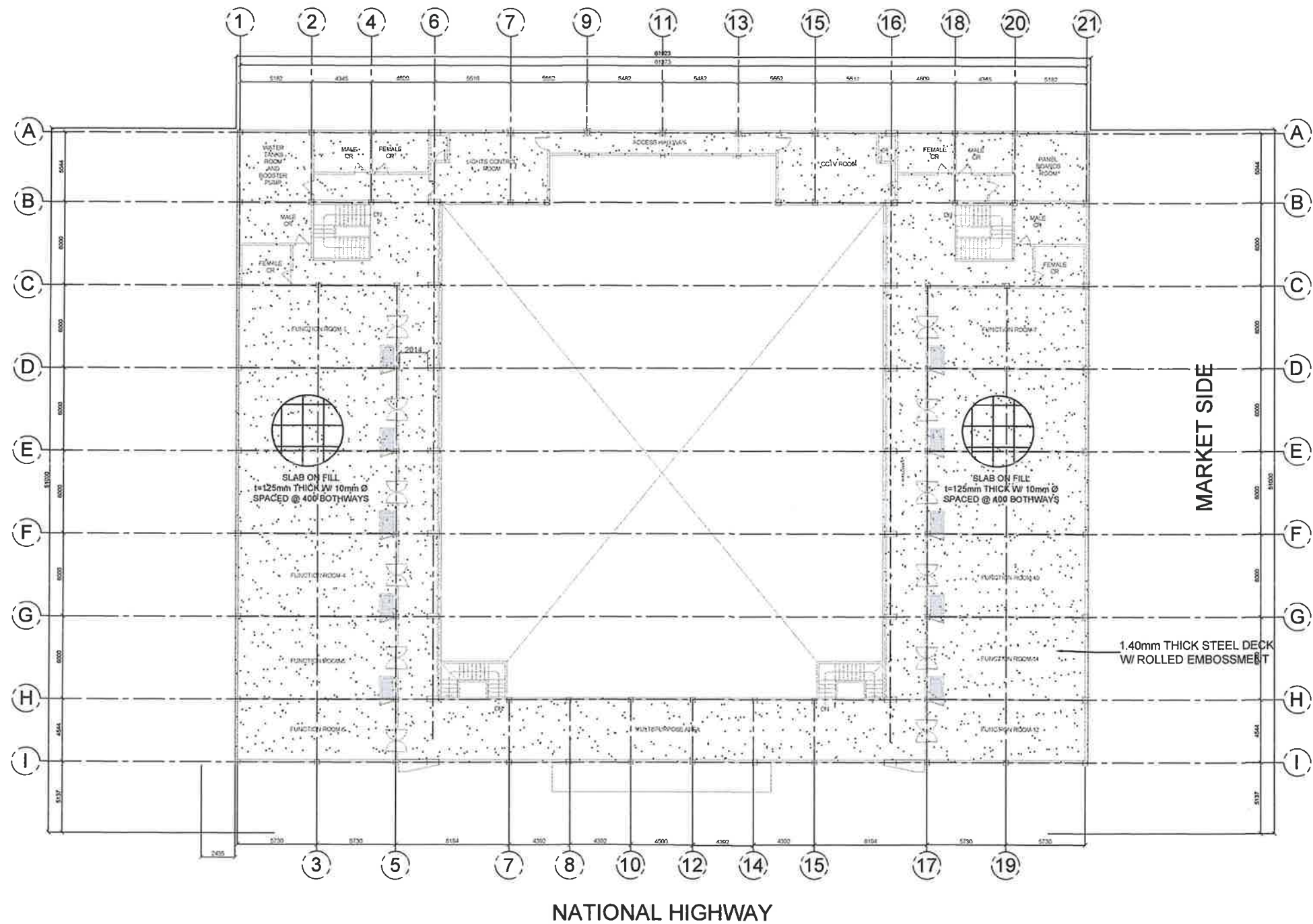
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SET NO:

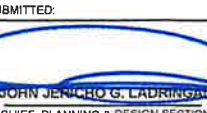
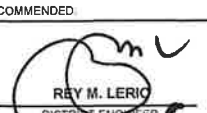
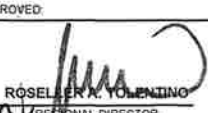
S2-1
30 89

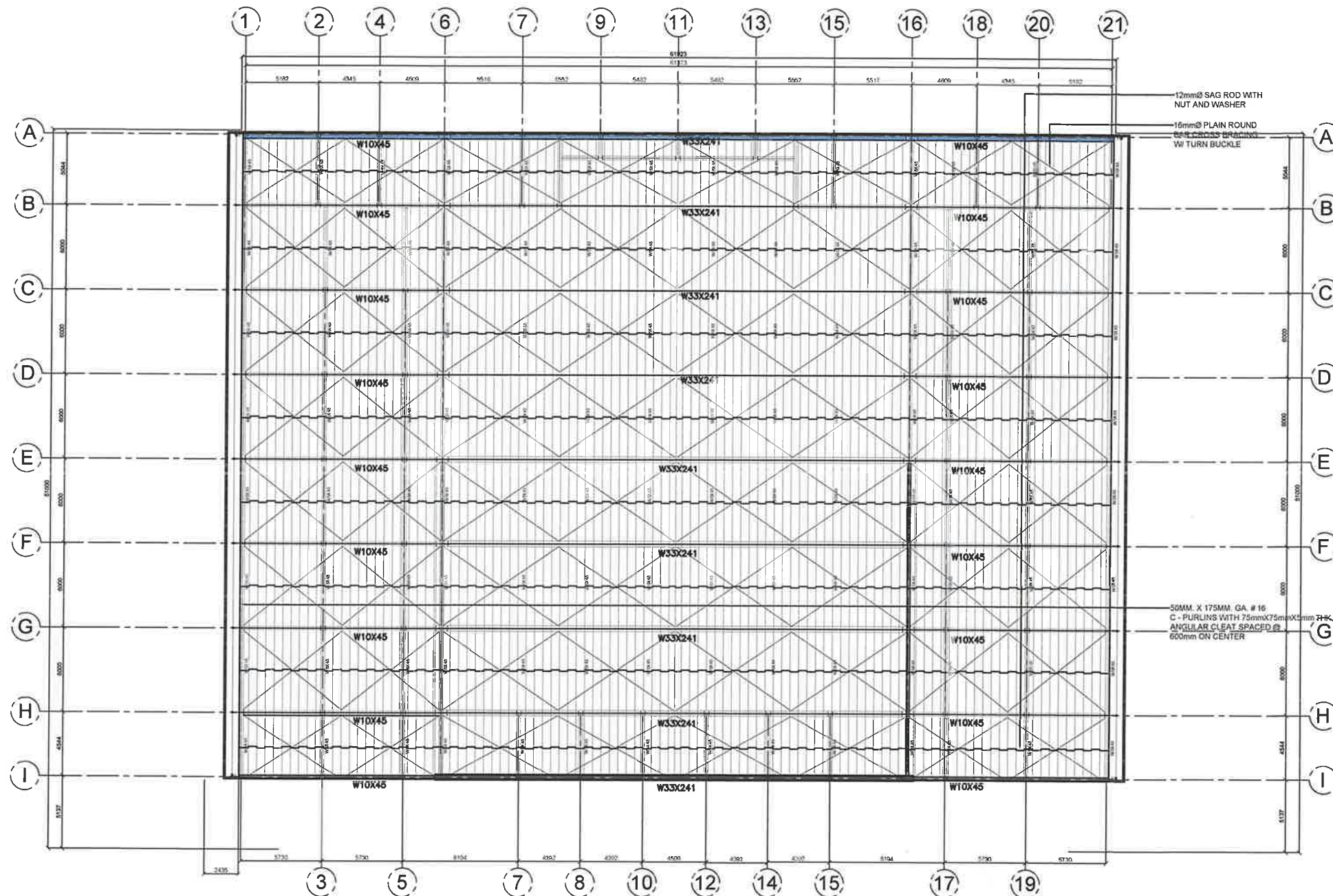
SHEET NO:

SAN NICHOLAS PARISH CHURCH



1 SECOND FLOOR PLAN(STEEL DECK)
S-2 SCALE: 1:200 MTS

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED:  JOSEPH ERIC G. GAYONDATO ENGINEER II DATE: _____	SUBMITTED:  JOHN JERICHO S. LADRINO CHIEF, PLANNING & DESIGN SECTION DATE: _____	REVIEWED:  ARTHUR D. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE: _____	RECOMMENDED:  REY M. LERIO DISTRICT ENGINEER DATE: _____	APPROVED:  ROSELLE R. TOLENTINO REGIONAL DIRECTOR DATE: _____	SET NO.  SHEET NO. 
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1 ROOF FRAMING PLAN
S-3 SCALE: 1:200 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
AS SHOWN

PREPARED:
JOSEPH ERIC B. GAYONDATO
ENGINEER II
DATE:

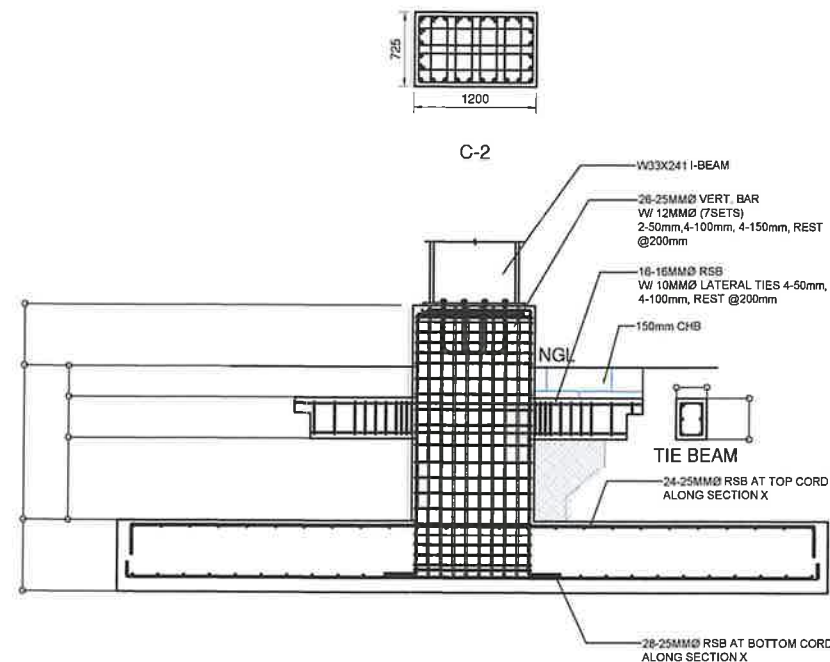
SUBMITTED:
JOHN JERICO G. LADRANGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

REVIEWED:
ARTHUR Q. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

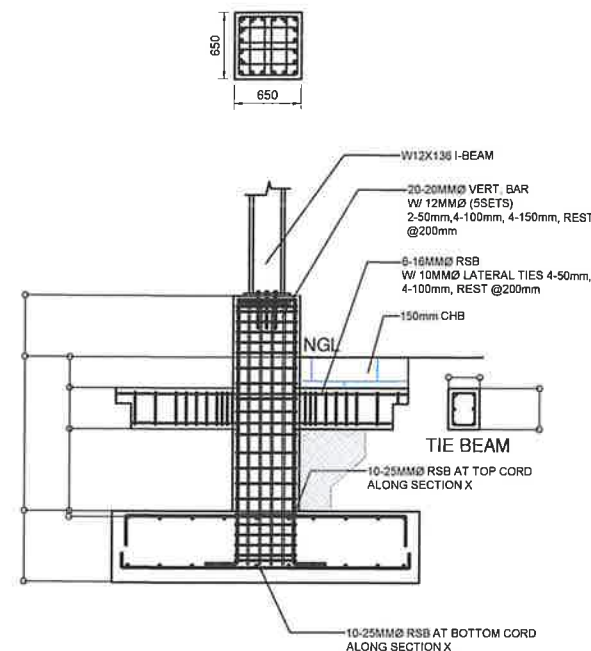
RECOMMENDED:
REY M. LERIO
DISTRICT ENGINEER
DATE:

APPROVED:
ROSELIER A. TOLENTINO
REGIONAL DIRECTOR
DATE:

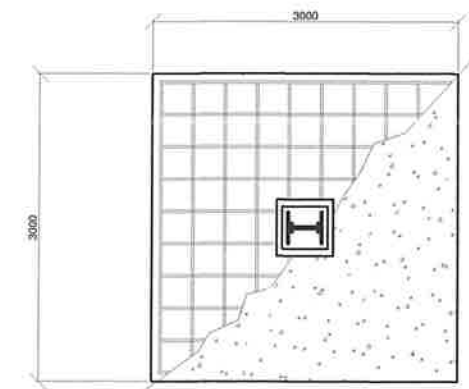
SET NO.:
SHEET NO.:
S3
32/89



1 TYPICAL DETAIL OF COLUMN-1
S-4 SCALE: 1:40 MTS



2 TYPICAL DETAIL OF COLUMN-2
S-4 SCALE: 1:40 MTS

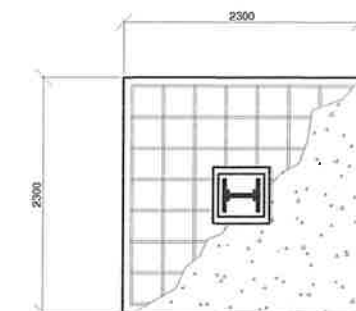


TOP BAR: (X) 10 - 25mmØ, (Y) 10 - 25mmØ
BOTTOM BAR: (X) 10 - 25mmØ, (Y) 10 - 25mmØ

4 DETAIL OF F-2
S-4 SCALE: 1:40 MTS

REINFORCED CONCRETE PEDESTAL SCHEDULE		
LEVEL	C-1	C-2
FLOOR LEVEL TO 0.60M ABOVE FLOOR LEVEL	MAIN BAR: 20-25mmØ TIES : 12mmØ (5 SETS) 1-50mm, 4-100mm, 4-150mm, REST @ 200mm	MAIN BAR: 28-25mmØ TIES : 12mmØ (7 SETS) 1-50mm, 4-100mm, 4-150mm, REST @ 200mm

SCHEDULE OF FOOTING									
FOOTING MARK	FOOTING DIMENSIONS (mm)				TOP REINFORCEMENT		BOTTOM REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (L)	DEPTH (L)	Thickness (t)	BAR X	BAR Y	BAR X	BAR Y	
F-1	3000	3000	2000	750	10-25mmØ	10-25mmØ	10-25mmØ	10-25mmØ	ISOLATED FOOTING
F-2	2300	2300	2000	750	8-25mmØ	8-25mmØ	8-25mmØ	8-25mmØ	ISOLATED FOOTING
F-3	4200	4650	2000	750	16-25mmØ	14-25mmØ	20-25mmØ	16-25mmØ	ISOLATED FOOTING
F-4	4300	2650	2000	750	10-25mmØ	15-25mmØ	10-25mmØ	15-25mmØ	COMBINED FOOTING
F-5	2250	5000	2000	750	18-25mmØ	8-25mmØ	18-25mmØ	8-25mmØ	COMBINED FOOTING
F-6	6844	24367	2000	750	24-25mmØ	124-25mmØ	28-25mmØ	140-25mmØ	MAT FOOTING
F-7	39750	6950	2000	750	160-25mmØ	42-25mmØ	200-25mmØ	48-25mmØ	MAT FOOTING



TOP BAR: (X) 8 - 25mmØ, (Y) 8 - 25mmØ
BOTTOM BAR: (X) 8 - 25mmØ, (Y) 8 - 25mmØ

3 DETAIL OF F-1
S-4 SCALE: 1:40 MTS



REPUBLIC OF THE PHILIPPINES
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BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
AS SHOWN

PREPARED:
JOSEPH ERIC G. GAYONDATO
ENGINEER
DATE:

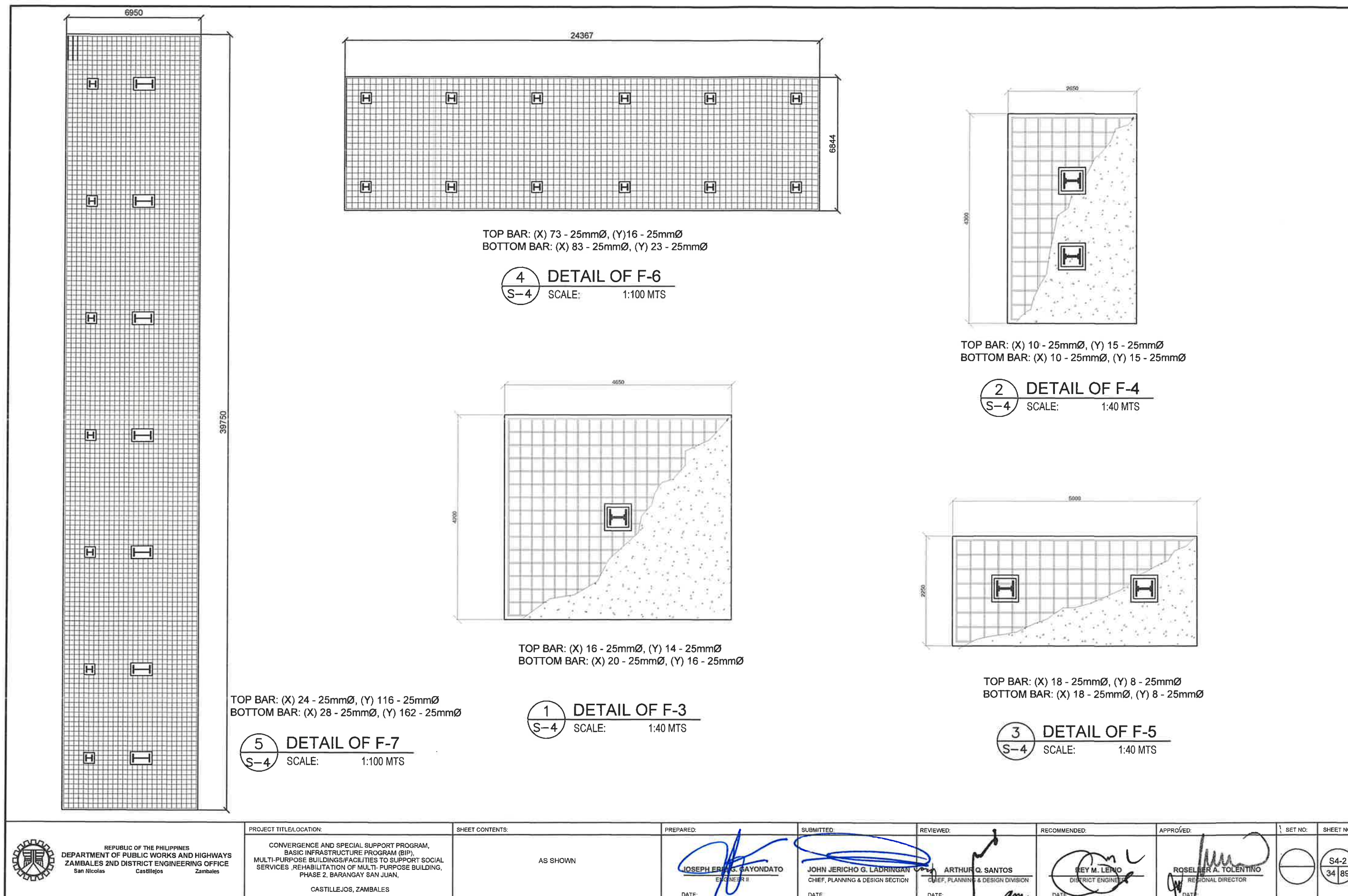
SUBMITTED:
JOHN JERICO G. LADRANGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

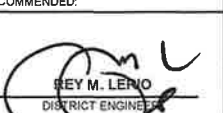
REVIEWED:
ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

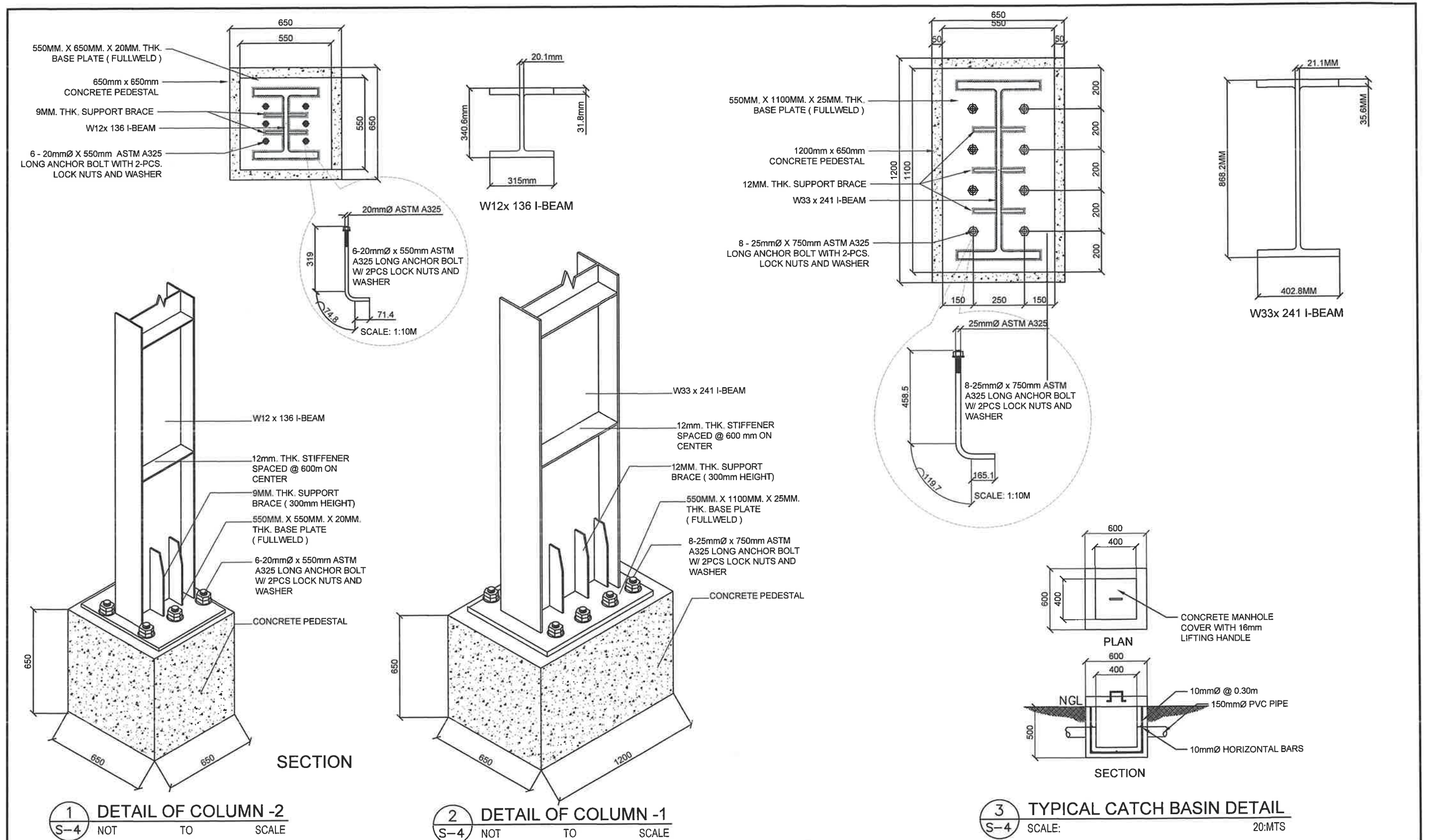
RECOMMENDED:
REY M. LERIO
DISTRICT ENGINEER
DATE:

APPROVED:
ROSELLA A. TOLENTINO
REGIONAL DIRECTOR
DATE:

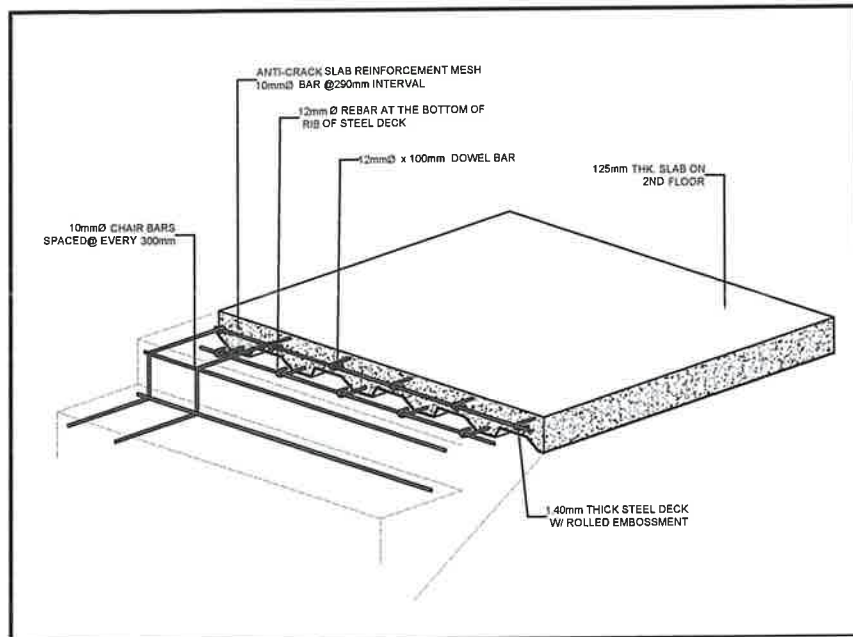
SHEET NO.:
S4-1
33 89



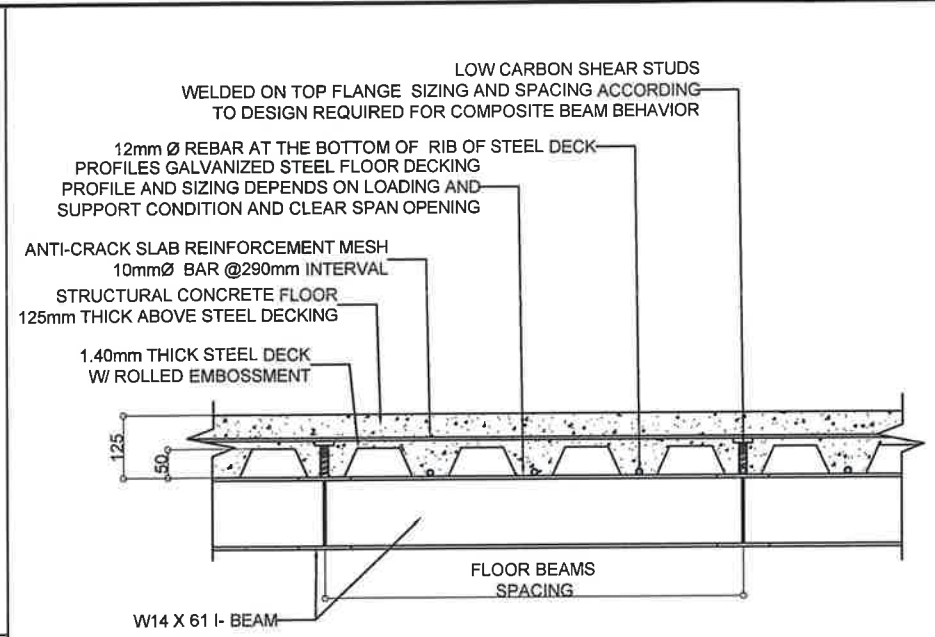
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zambales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED:  JOSEPH E. S. GAYONDATO ENGINEER II DATE: _____	SUBMITTED:  JOHN JERICO G. LADRANGAN CHIEF, PLANNING & DESIGN SECTION DATE: _____	REVIEWED:  ARTHUR Q. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE: _____	RECOMMENDED:  REY M. LENO DISTRICT ENGINEER DATE: _____	APPROVED:  ROSELMER A. TOLENTINO REGIONAL DIRECTOR DATE: _____	SET NO:  SHEET NO: 
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 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED: JOSEPH ERIC S. GAYONDATO ENGINEER II DATE:	SUBMITTED: JOHN JERISHO C. LADRINGAN CHIEF, PLANNING & DESIGN SECTION DATE:	REVIEWED: ARTHUR O. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE:	RECOMMENDED: REY M. LERIO DISTRICT ENGINEER DATE:	APPROVED: ROSELLER A. TOLENTINO REGIONAL DIRECTOR DATE:	SET NO: SHEET NO: S4-3 35/89
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1
S-4 NOT TO SCALE
STAIR AND STEEL DECK CONNECTION DETAIL



2
S-4 NOT TO SCALE
DETAIL OF STEEL DECK SLAB

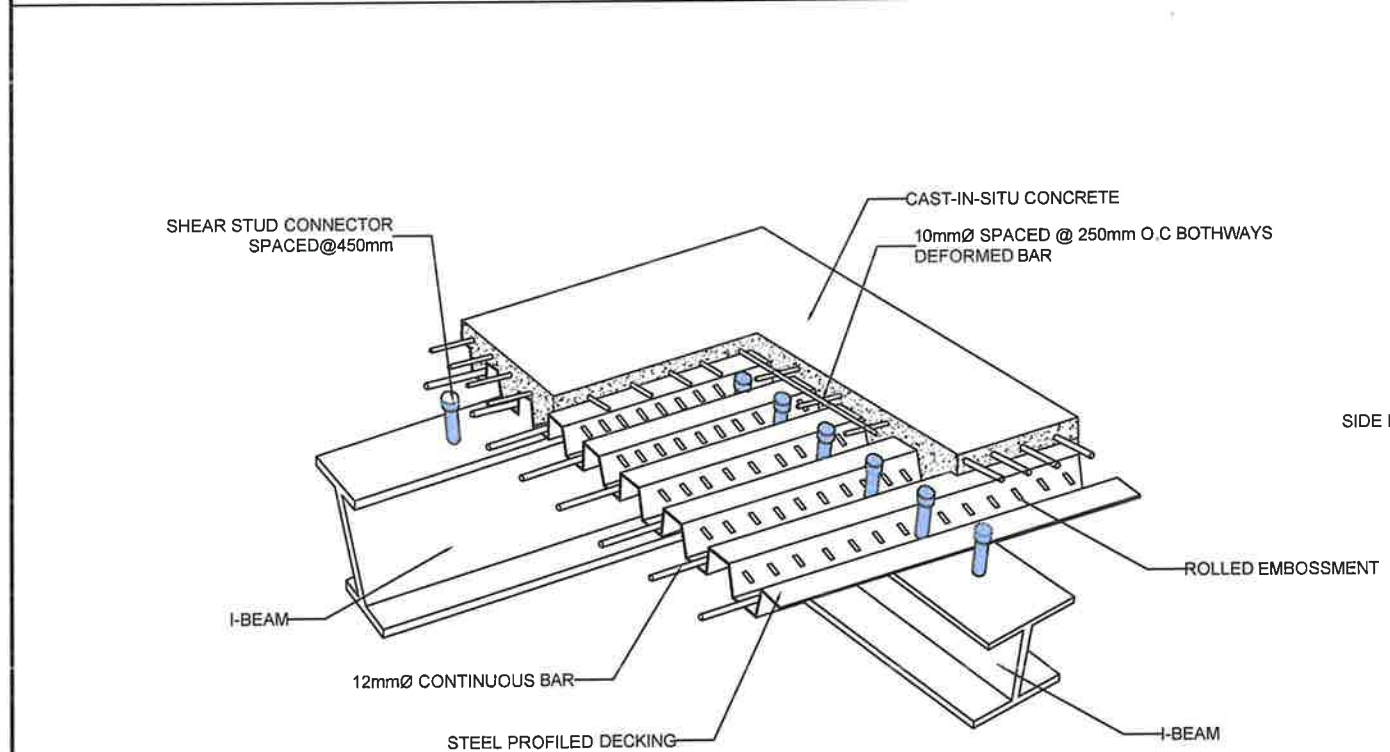
TABLE 1. SECTION PROPERTIES PER METER WIDTH

METAL BASE THICKNESS S(mm)	WEIGHT PER AREA(kg/m ²)	+I X 10 ⁶ (mm ⁴)	-I X 10 ⁶ (mm ⁴)	+S X 10 ³ (mm ³)	-S X 10 ³ (mm ³)	A (mm ²)
0.80	8.0730	0.5040	0.4190	20.0080	19.582	1033.7
1.00	10.0930	0.6310	0.6130	24.9380	24.568	1296.1
1.20	12.1140	0.7570	0.7360	29.8430	29.596	1560.9
1.40	14.1365	0.8850	0.8590	34.7250	34.669	1828.6
1.60	16.1594	1.0110	0.9820	39.7870	39.787	2099.6

+I - POSITIVE MOMENT INERTIA
-I - NEGATIVE MOMENT INERTIA

+S - SECTION MODULUS FOR POSITIVE REGION
-S - SECTION MODULUS FOR NEGATIVE REGION

BASED ON DPWH DEPARTMENT ORDER NO. 10,
SERIES 2006: DPWH STANDARD SPECIFICATIONS
FOR METAL DECK, ITEM 1033



3
S-4 NOT TO SCALE
ISOMETRIC VIEW OF STEEL DECK

SIDE LAP JOINTS SHOULD BE FASTENED BY A
NO. 12X 20mm SELF DRILLING SCREWS
AT THE END AND AT MIDSPAN

1.40mm THICK STEEL DECK
W/ ROLLED EMBOSMENT



4
S-4 NOT TO SCALE
SIDE LAP JOINTS DETAIL

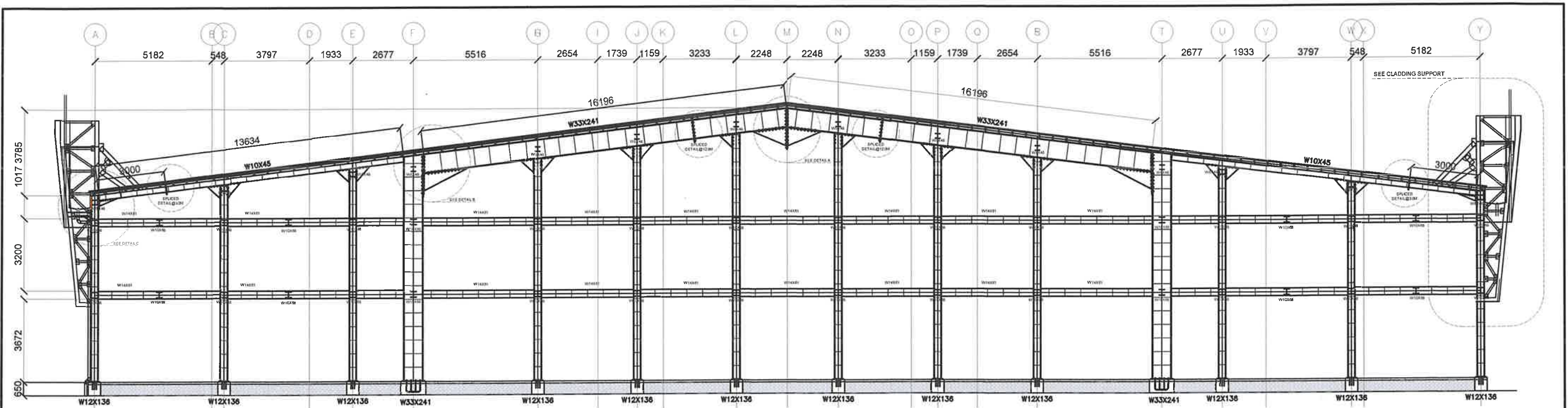
1033.3.2 SIDE LAP JOINTS

METAL DECK SHALL BE SIDELAPPED WITH THE FEMALE RIB OVERLAPPING THE MALE RIB OF THE PANEL. SIDE LAP JOINTS SHOULD BE FASTENED BY A NO. 12 X 20mm SELF DRILLING SCREW OR ITS EQUIVALENT THROUGH THE CENTER OF THE SIDE LAP JOINT. FASTENING SHOULD BE AS FOLLOWS:

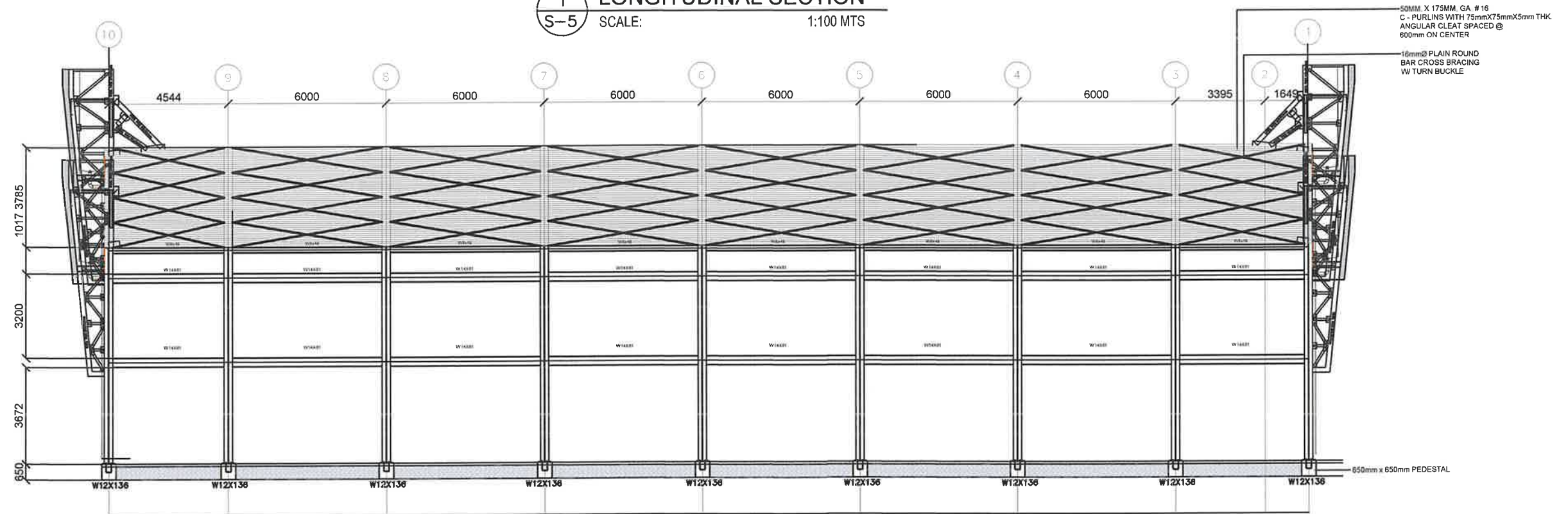
1033.3.2.1
FOR SPANS UP TO 1.80 M. FASTEN SIDE LAP JOINTS AT THE ENDS AND AT MIDSPAN

1033.3.2.2
FOR SPANS GREATER THAN 1.80 M. FASTEN AT THIRD POINTS OF SPAN OR AT 1.20 M SPACING, WHICH IS LESS.

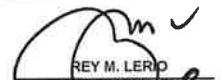
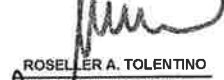
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	REVIEWED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	AS SHOWN	JOSEPH ERIC G. GAYONDATO ENGINEER II	JOHN JERICO G. LADRANGAN CHIEF, PLANNING & DESIGN SECTION	ARTHUR Q. SANTOS CHIEF, PLANNING & DESIGN DIVISION	REY M. LERIO DISTRICT ENGINEER	ROSE LER A. TOLENTINO REGIONAL DIRECTOR		S4-5 37 89

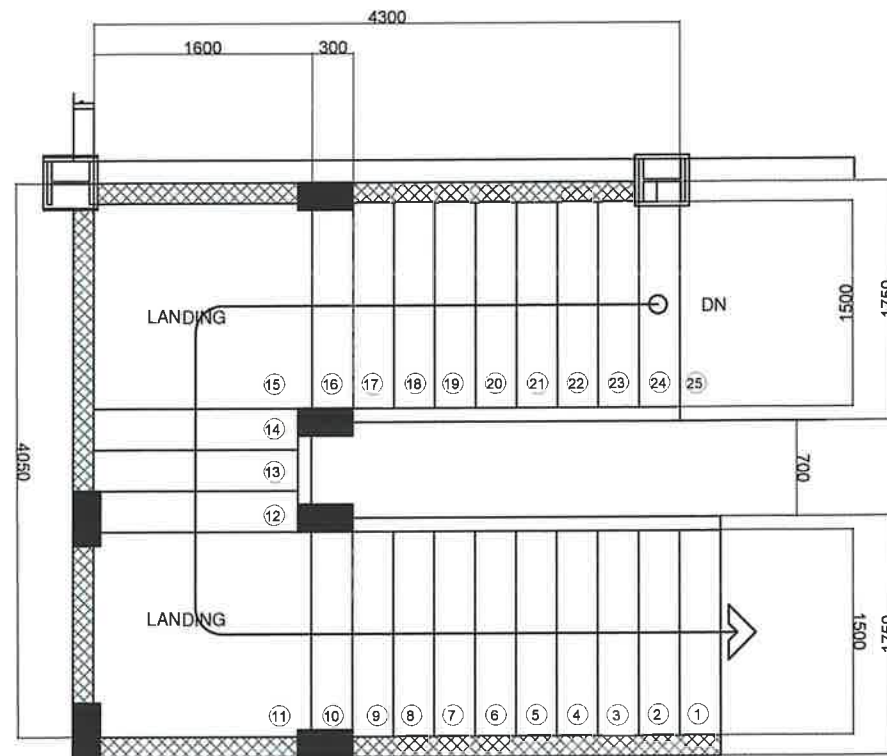


1 LONGITUDINAL SECTION
S-5 SCALE: 1:100 MTS

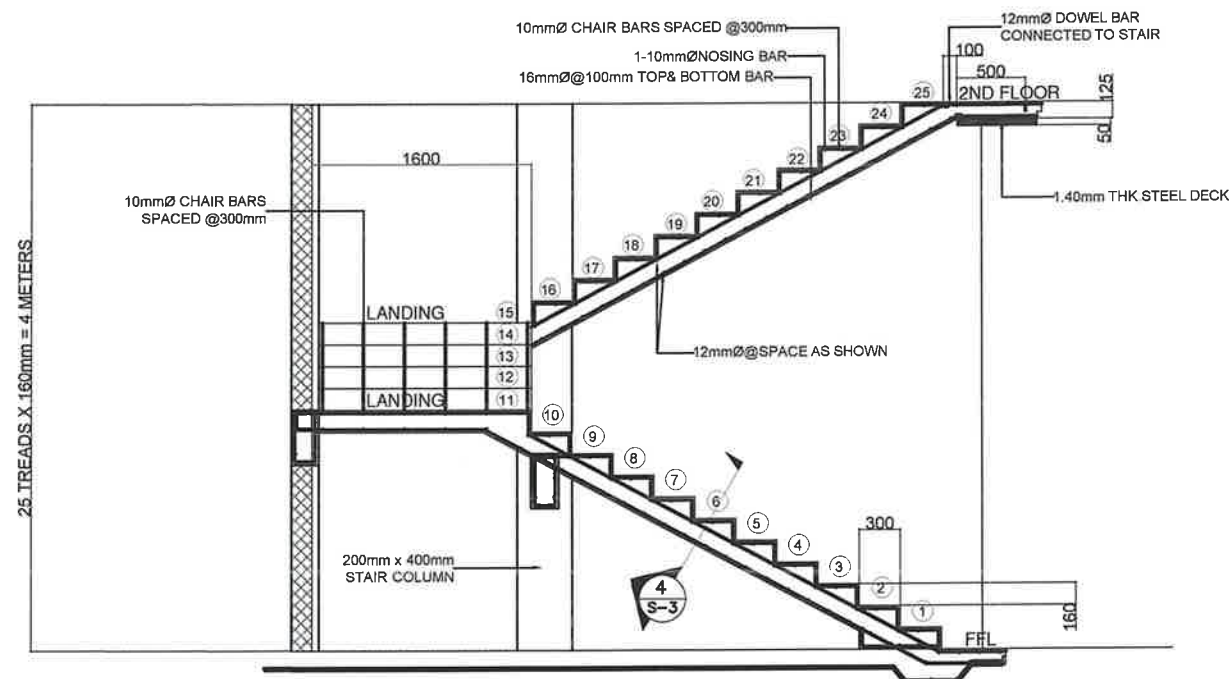


2 CROSS SECTION
S-5 SCALE: 1:100 MTS

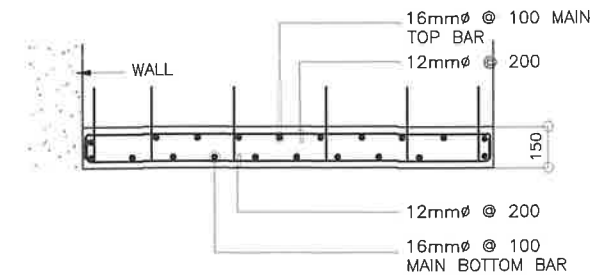
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED:  JOSEPH ERIC C. GAYONDATO ENGINEER II DATE:	SUBMITTED:  JOHN BENIGNO C. LABRANGAN CHIEF, PLANNING & DESIGN SECTION DATE:	REVIEWED:  ARTHUR Q. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE:	RECOMMENDED:  REY M. LERIO DISTRICT ENGINEER DATE:	APPROVED:  ROSELLER A. TOLENTINO REGIONAL DIRECTOR DATE:	SET NO: 38	SHEET NO: S5-1 38/89
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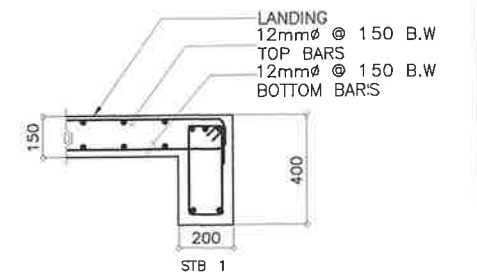
PLAN



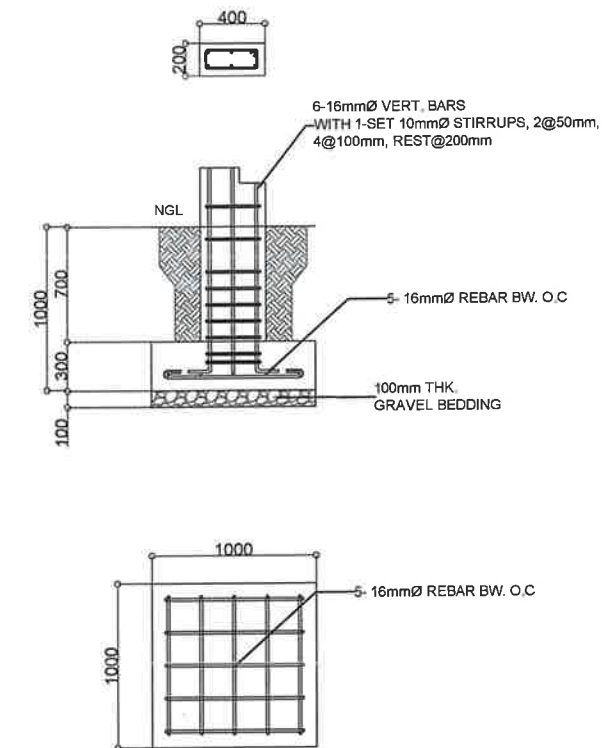
ELEVATION



3 SECTION OF STAIR SLAB
S-5 SCALE: 1:10 MTS

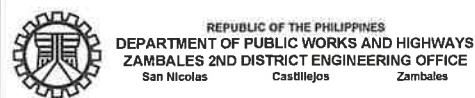


4 SPOT DETAIL
S-5 SCALE: 1:10 MTS



2 DETAIL OF STAIR COLUMN
S-5 SCALE: 1:25 MTS

1 TYPICAL STAIR DETAIL
S-5 SCALE: 1:40 MTS



PROJECT TITLE/LOCATION
CONVERGENCE AND SPECIAL SUPPORT PROGRAM,
BASIC INFRASTRUCTURE PROGRAM (BIP),
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SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
AS SHOWN

PREPARED:
JOSEPH ERIC S. GAYONDATO
ENGINEER
DATE:

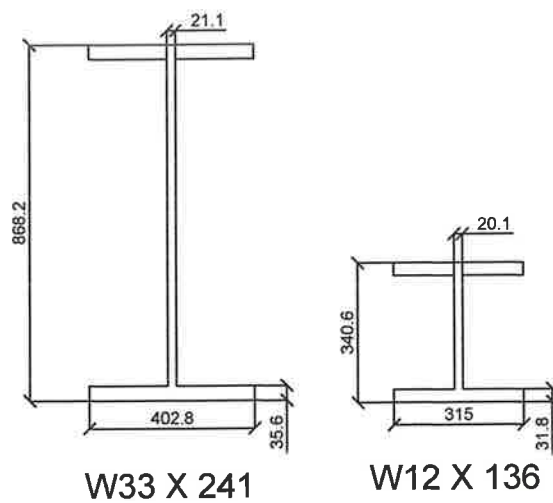
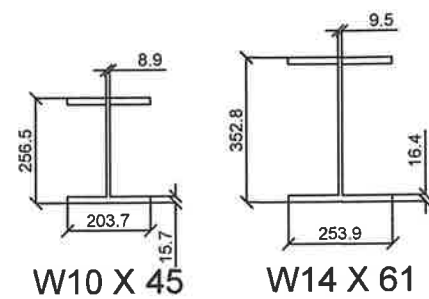
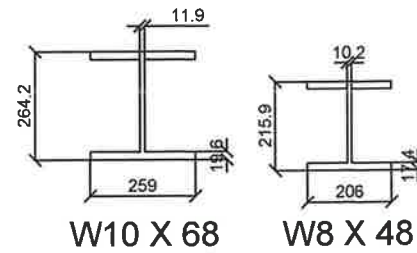
SUBMITTED:
JOHN JERICHO G. LADRINGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

REVIEWED:
ARTHUR Q. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

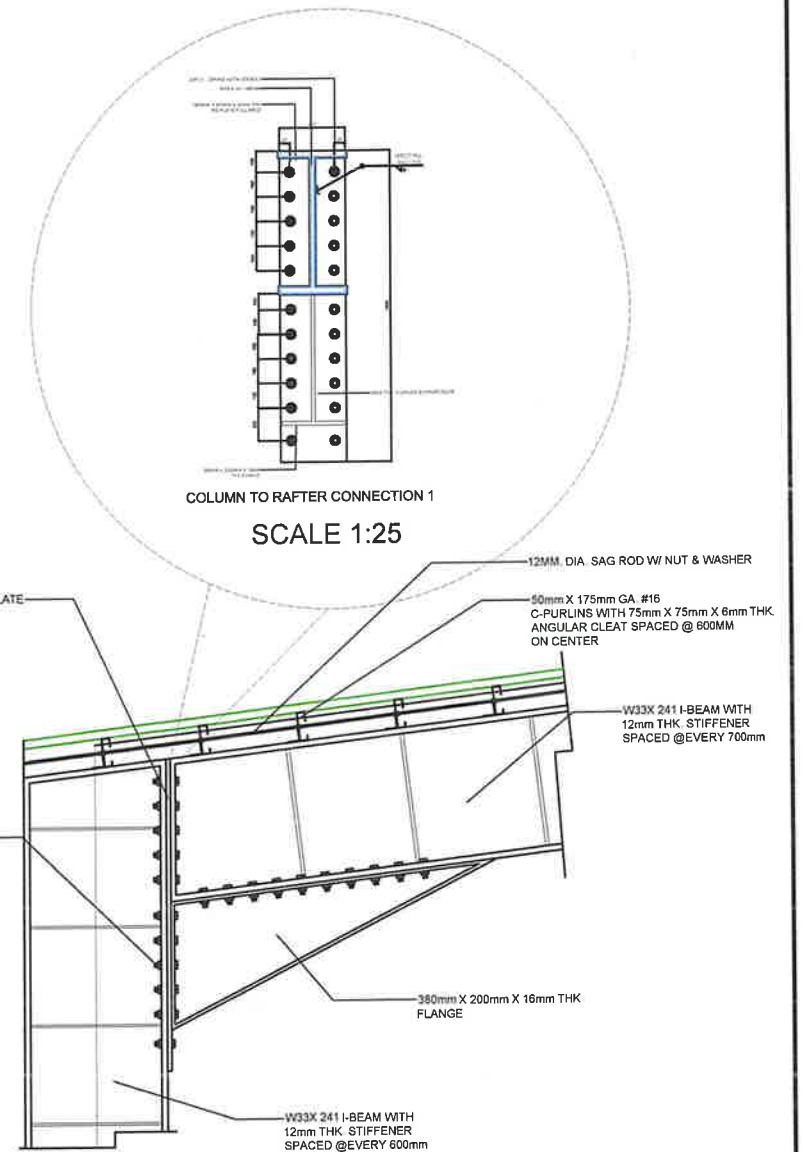
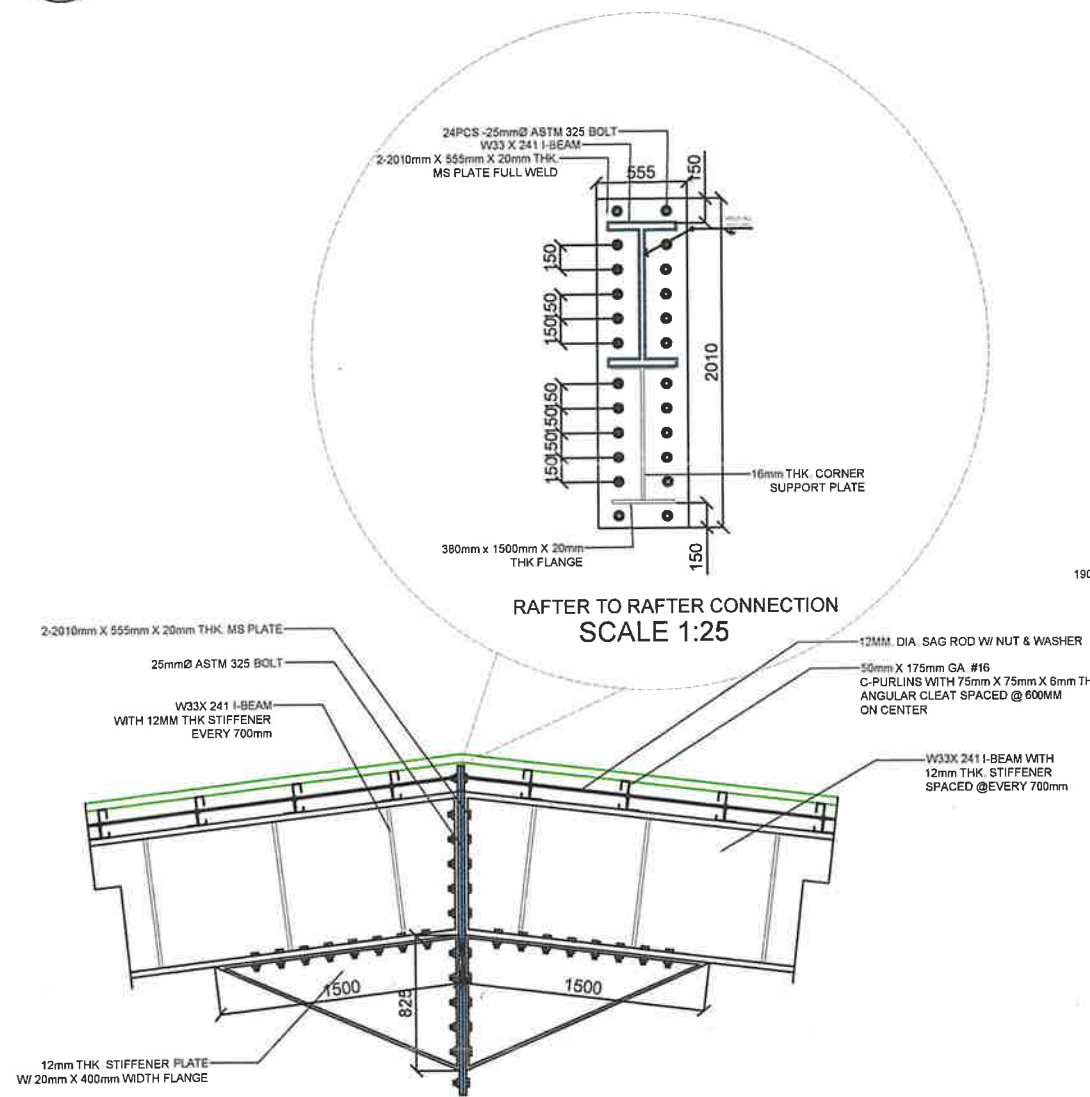
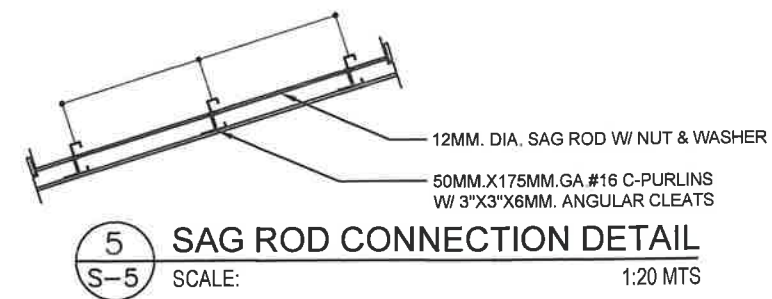
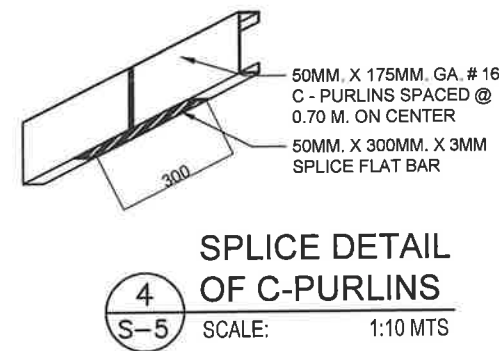
RECOMMENDED:
REY M. LERIO
DISTRICT ENGINEER
DATE:

APPROVED:
ROSELLER A. TOLENTINO
REGIONAL DIRECTOR
DATE:

SET NO.:
SHEET NO.:
S5-2
39/89

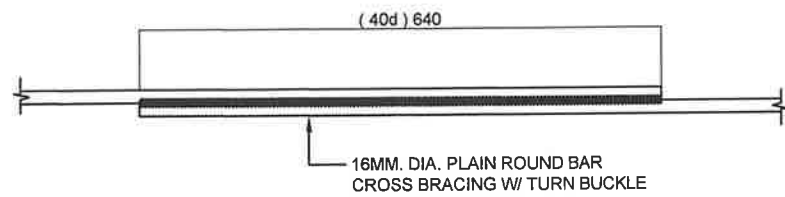


1
S-5 **DETAIL OF I-BEAM**
SCALE: 1:10 MTS

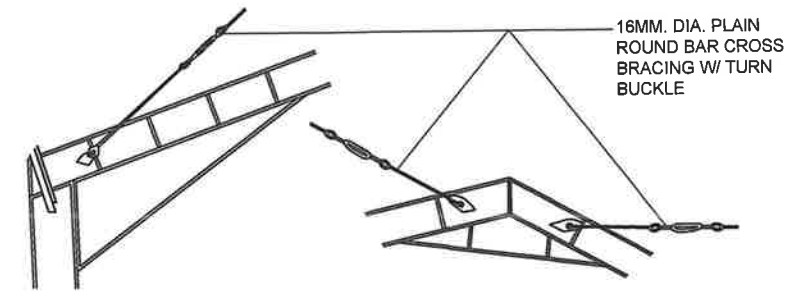


3
S-5 **DETAIL B**
SCALE: 1:25 MTS

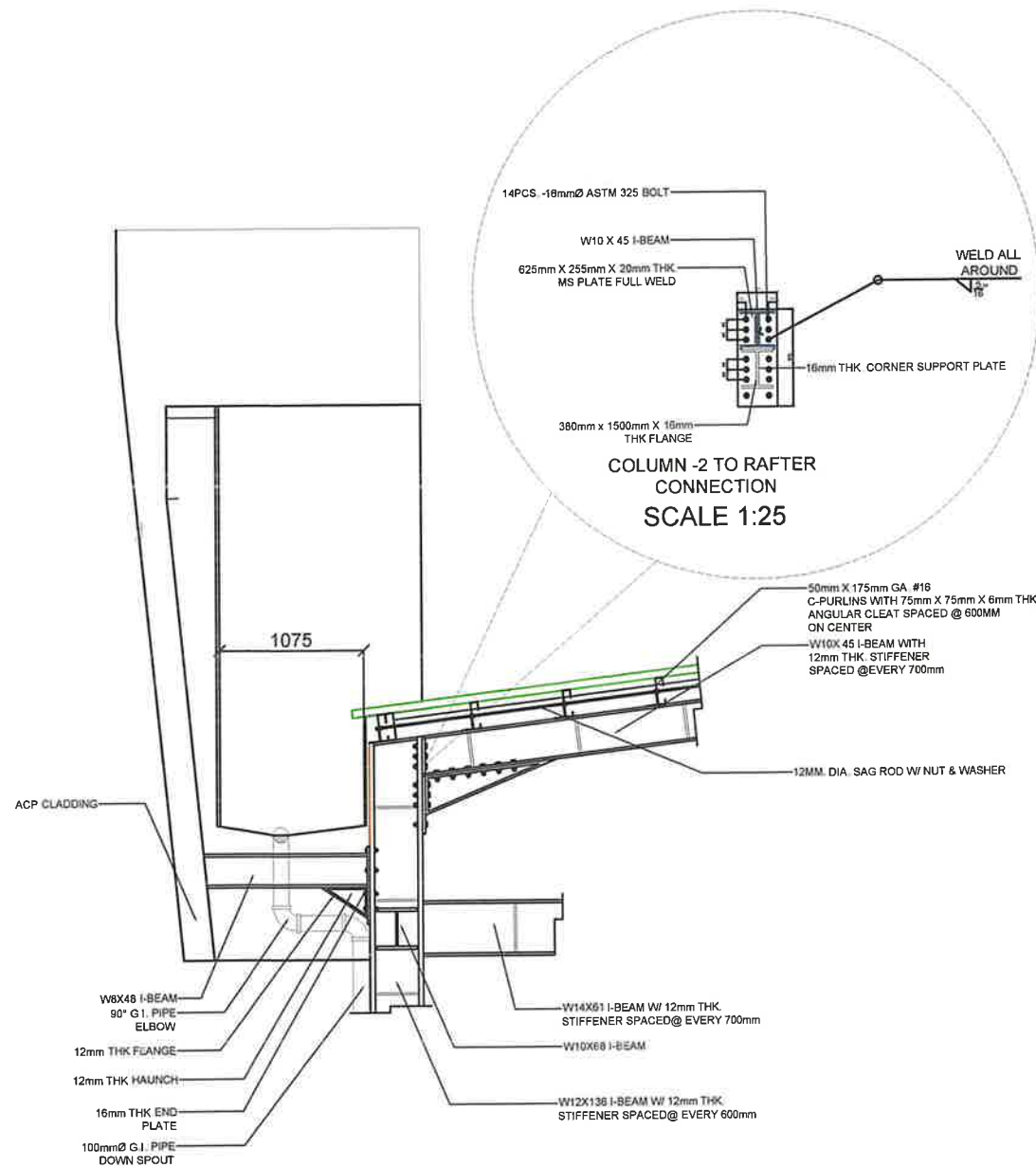
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED: JOSEPH ERIC G. GAYONDATO ENGINEER II DATE: _____	SUBMITTED: JOHN JERICHO G. LABRANGAN CHIEF, PLANNING & DESIGN SECTION DATE: _____	REVIEWED: ARTHUR Q. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE: _____	RECOMMENDED: KEY M. LERIO DISTRICT ENGINEER DATE: _____	APPROVED: ROSELEA A. TOLENTINO REGIONAL DIRECTOR DATE: _____	SET NO. SHEET NO. 40 89
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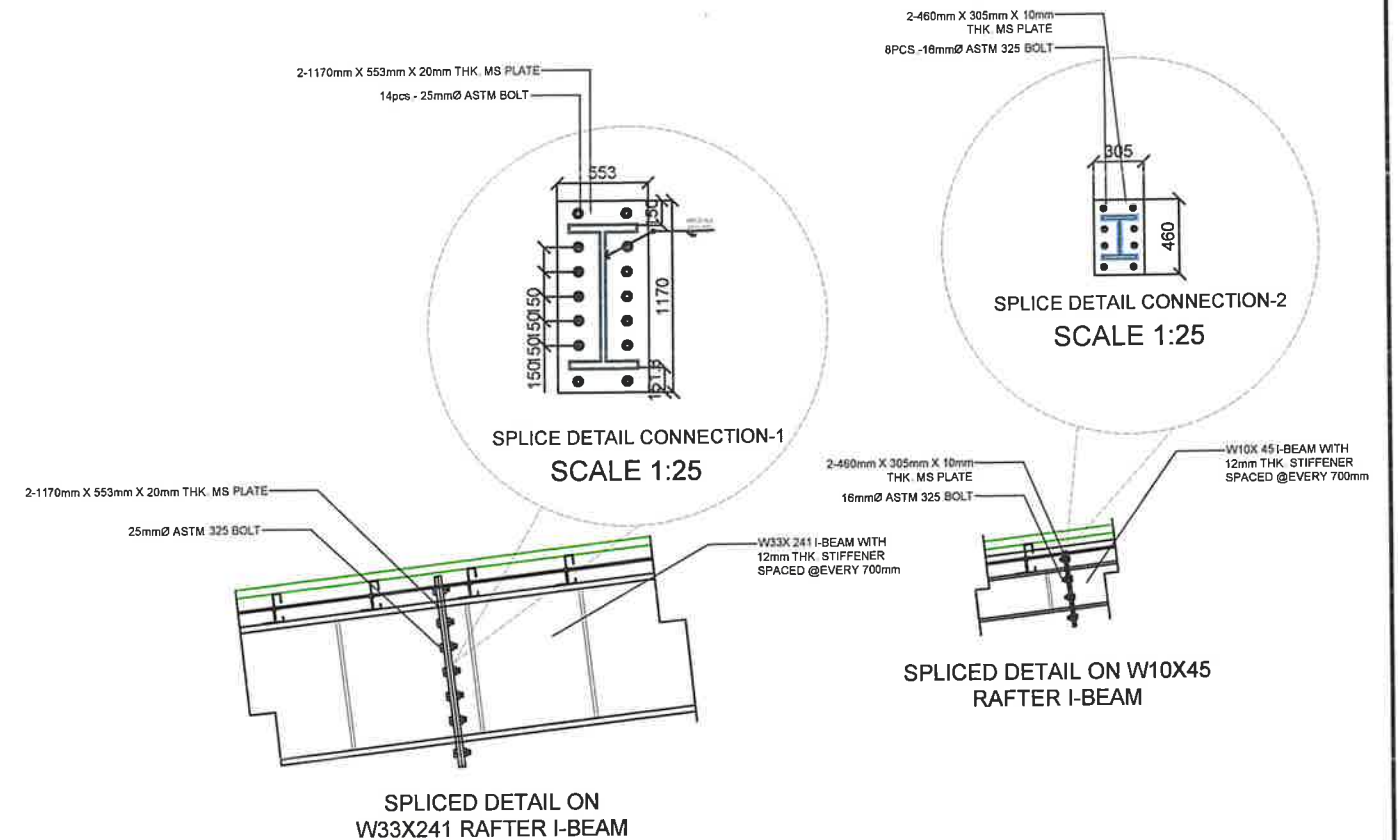
3
S-5 SCALE: 1:10 MTS
SPLICE DETAIL OF CROSS BRACING



4
S-5 NOT TO SCALE
CROSS BRACING CONNECTION DETAIL



1
S-5 SCALE: 1:25 MTS
DETAIL C



2
S-5 SCALE: 1:25 MTS
SPLICE DETAIL CONNECTION



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

PROJECT TITLE/LOCATION:
CONVERGENCE AND SPECIAL SUPPORT PROGRAM,
BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
AS SHOWN

PREPARED:
JOSEPH ERIC S. SAYONATO
ENGINEER II
DATE:

SUBMITTED:
JOHN JERICO G. LADRANGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

REVIEWED:
ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

RECOMMENDED:
REY M. LERIO
DISTRICT ENGINEER
DATE:

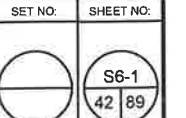
APPROVED:
ROSELYN A. TOLENTINO
REGIONAL DIRECTOR
DATE:

SET NO: SHEET NO:
S5-4
41/89



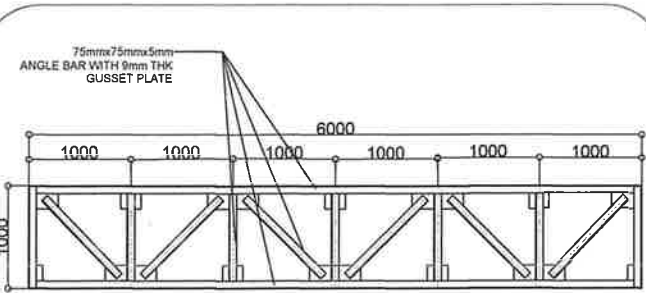
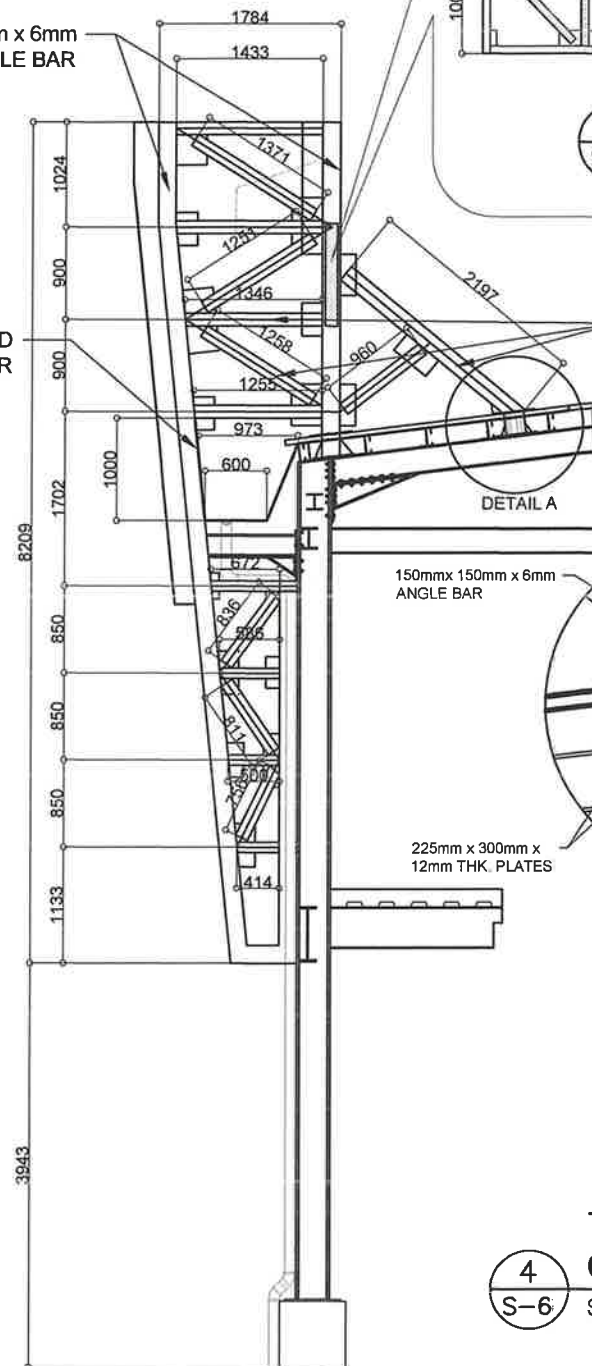
TYPICAL DETAIL OF CLADDING
FRAME ON FRONT

3
S-6 SCALE 1:30 M



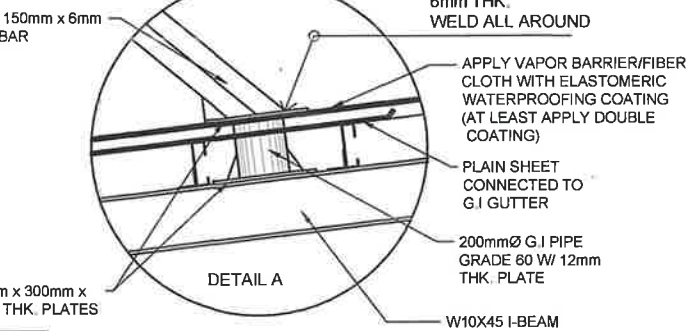
150mmx 150mm x 6mm
ANGLE BAR

PRE-PAINTED
G.I GUTTER

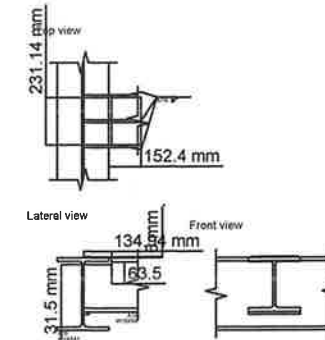


2
S-6 SCALE: 1:100 MTS

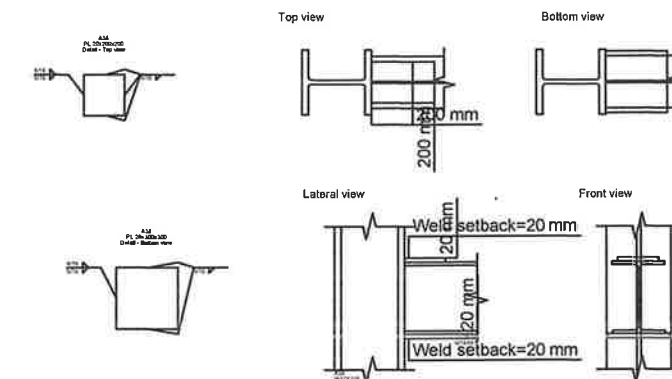
100mmx 100mm x 6mm
ANGLE BAR WEB MEMBER
WITH 6mm GUSSET PLATE



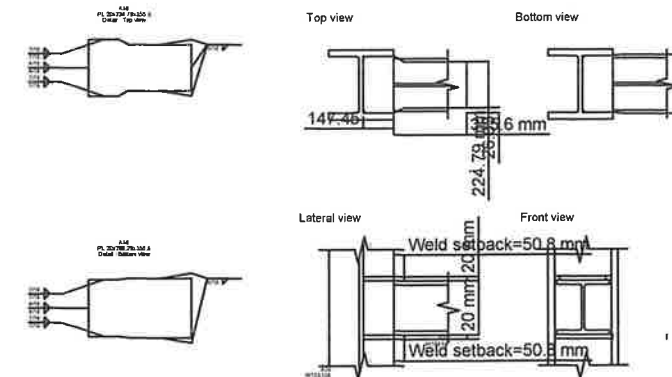
4
S-6 SCALE: 1:40 MTS



BEAM-TO-GIRDER (B-1 TO B-2) CONNECTION DETAIL



BEAM-TO-COLUMN (B-1 TO C-2) FLANGE CONNECTION DETAIL



BEAM-TO-COLUMN (B-2 TO C-2) WEB CONNECTION DETAIL

2
S-6 SCALE: 1:20 MTS

SECOND FLOOR BEAM
CONNECTION DETAILS



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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:

AS SHOWN

PREPARED:

JOSEPH ERIC G. GAYONDATO
ENGINEER II

DATE:

SUBMITTED:

JOHN JERICO G. LADRINGAN
CHIEF, PLANNING & DESIGN SECTION

DATE:

REVIEWED:

ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION

DATE:

RECOMMENDED:

REY M. LERIO
DISTRICT ENGINEER

DATE:

APPROVED:

ROSELLER A. TOLENTINO
REGIONAL DIRECTOR

DATE:

SET NO:

43 89

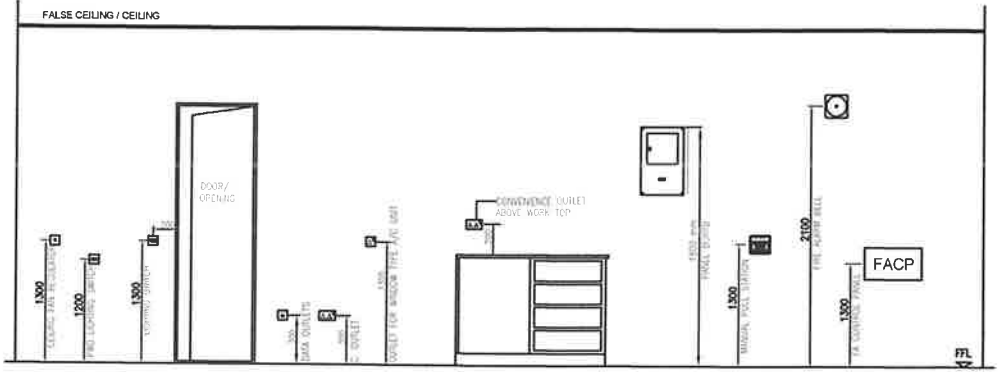
SHEET NO:

GENERAL NOTES

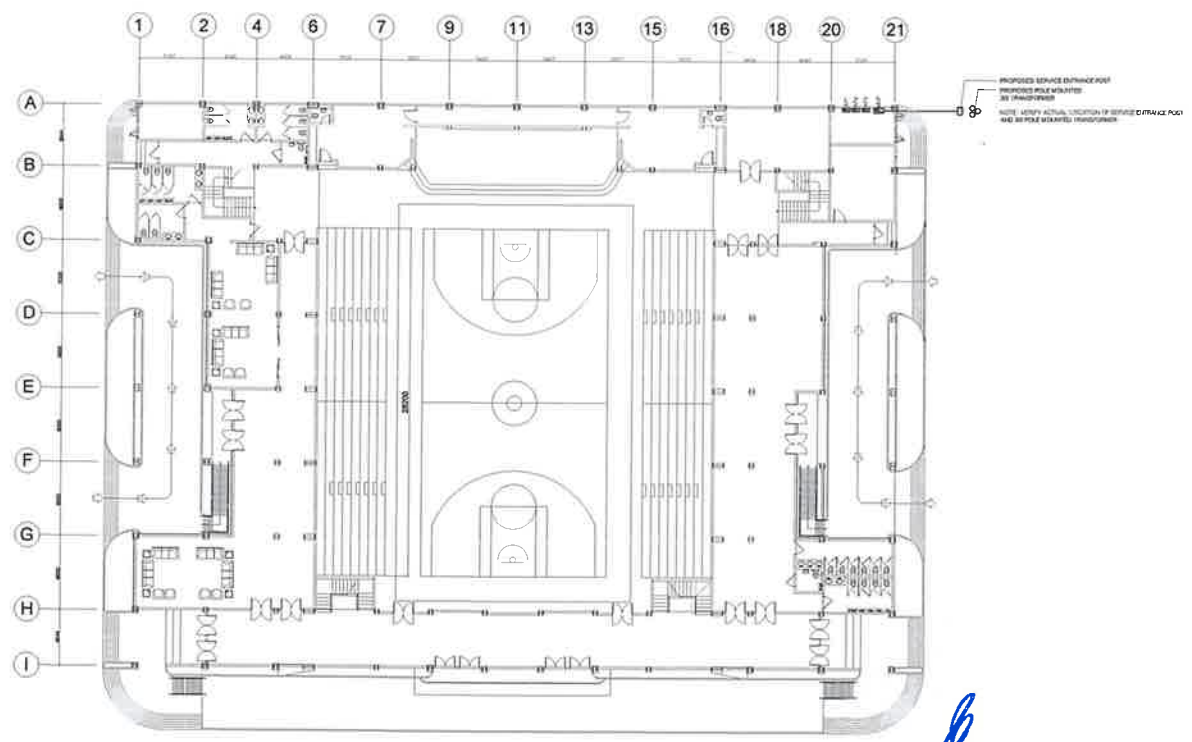
1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LOCAL ORDINANCES, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. ALL WORKS HEREIN SHALL BE DIRECTLY SUPERVISED BY A DULY LICENSED ELECTRICAL ENGINEER AS ENFORCED BY THE NEW ELECTRICAL ENGINEERING LAW OR R.A. 7920.
3. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW, OF THE BEST QUALITY AND OF THE APPROVED TYPE AND SHALL BEAR THE MANUFACTURER'S NAME INCLUDING THE "PSA" MARK. PULL BOXES SHALL BE PROVIDED IN APPROPRIATE AREAS EVEN IF NOT INDICATED IN THE PLAN.
5. POWER SUPPLY TO THE BUILDING SHALL BE THREE PHASE, 3-WIRE AND GROUND, 230 VOLTS.
6. RACEWAY SCHEDULE SHALL BE AS FOLLOWS:
- A. CONCRETE PEDESTAL TO MDP - RIGID STEEL CONDUIT.
 - B. MDP TO DISTRIBUTION PANELBOARDS - uPVC PIPE SCHEDULE 40.
 - C. BRANCH CIRCUITS FOR POWER, LIGHTING AND AUXILIARY
- MINIMUM SIZE OF RACEWAY SHALL BE 20 MM. DIAMETER.
7. OUTLET BOXES SHALL HAVE A MINIMUM THICKNESS OF GA. # 16 WITH 1/2 KO AND SHALL BE PAINTED WITH RED LEAD PAINT PRIOR TO INSTALLATION.
8. WIRES AND CABLES SHALL BE OF THE APPROVED TYPE AND BEARING THE "PS" MARK UNLESS SPECIFIED OR INDICATED OTHERWISE. ALL POWER AND LIGHTING CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS MINIMUM.
9. WIRING DEVICES SHALL HAVE MINIMUM RATING OF 10 AMPERES, 250 VOLTS.
10. LIGHTING FIXTURES SHALL CONFORM WITH THE SCHEDULE AS PREPARED.
11. PANELBOARDS SHALL CONFORM TO THE LOAD SCHEDULE AS SHOWN ON PLANS WITH RESPECT TO BREAKER PHASE ARRANGEMENT, RATING, CAPACITY AND SHORT CIRCUIT CONSIDERATION.
12. FIRE ALARM DEVICES SHALL COMPLY WITH THE NFPA PROVISIONS AND SHALL BEAR THE "UL" STANDARD MARK.
13. ALL NON-CURRENT CARRYING METALLIC PARTS, CABINETS AND EQUIPMENT FRAMES SHALL BE PROPERLY GROUNDING IN ACCORDANCE WITH THE GROUNDING REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
14. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
- A. WALL SWITCHES 1400 MM AFF TO CENTER OF DEVICE
 - B. WALL OUTLETS 300 MM AFF TO CENTER OF DEVICE
 - C. EMERGENCY LIGHT 300 MM BELOW BEAM OR FINISHED CEILING
15. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, THE FOLLOWING TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE OWNER'S REPRESENTATIVE:
- A. INSULATION RESISTANCE TEST, 500v, D.C
 - B. GROUND RESISTANCE TEST
 - C. OPERATIONAL TEST
 - D. PHASE BALANCING TEST
 - E. PHASE SEQUENCE TEST

ELECTRICAL SYMBOLS

	15W LED SQUARE PANEL LIGHT, RECESS MOUNT
	15W LED SQUARE PANEL LIGHT, SURFACE MOUNT
	1-18W LED TUBE, TROFFER TYPE MIRRORIZED LOUVER, RECESS MOUNT
	1-40W LED PANEL LIGHT 1200mm x 300mm
	250W LED HIGH BAY LIGHT
	2x4W, 6V, LED EMERGENCY LIGHT WITH OUTLET
	CEILING MOUNTED EXHAUST FAN
	S1A 1-1WAY SWITCH IN 1 - DEVICE PLATE; 10A, 250V SUBSCRIPT/S DENOTE/S LIGHTS CONTROLLED
	S2,BC 2-1WAY SWITCH IN 2 - DEVICE PLATE; 10A, 250V SUBSCRIPT/S DENOTE/S LIGHTS CONTROLLED
	S3,DEF 3-1WAY SWITCH IN 3 - DEVICE PLATE; 10A, 250V SUBSCRIPT/S DENOTE/S LIGHTS CONTROLLED
	S _{SW} X 1-3WAY SWITCH IN 1 - DEVICE PLATE; 10A, 250V SUBSCRIPT/S DENOTE/S LIGHTS CONTROLLED
	CONVENIENCE OUTLET: DUPLEX, 15A, 250V WITH GROUNDING
	FM FLOOR MOUNTED OUTLET
	HD HAND DRYER OUTLET
	CHL HOMERUN
	MDP MAIN DISTRIBUTION PANEL
	LPP LIGHTING/POWER PANEL
	AP AIRCON PANEL
	GR GROUNDING
	M kWh METER
	G STANDBY GENSET
	ATS AUTOMATIC TRANSFER SWITCH



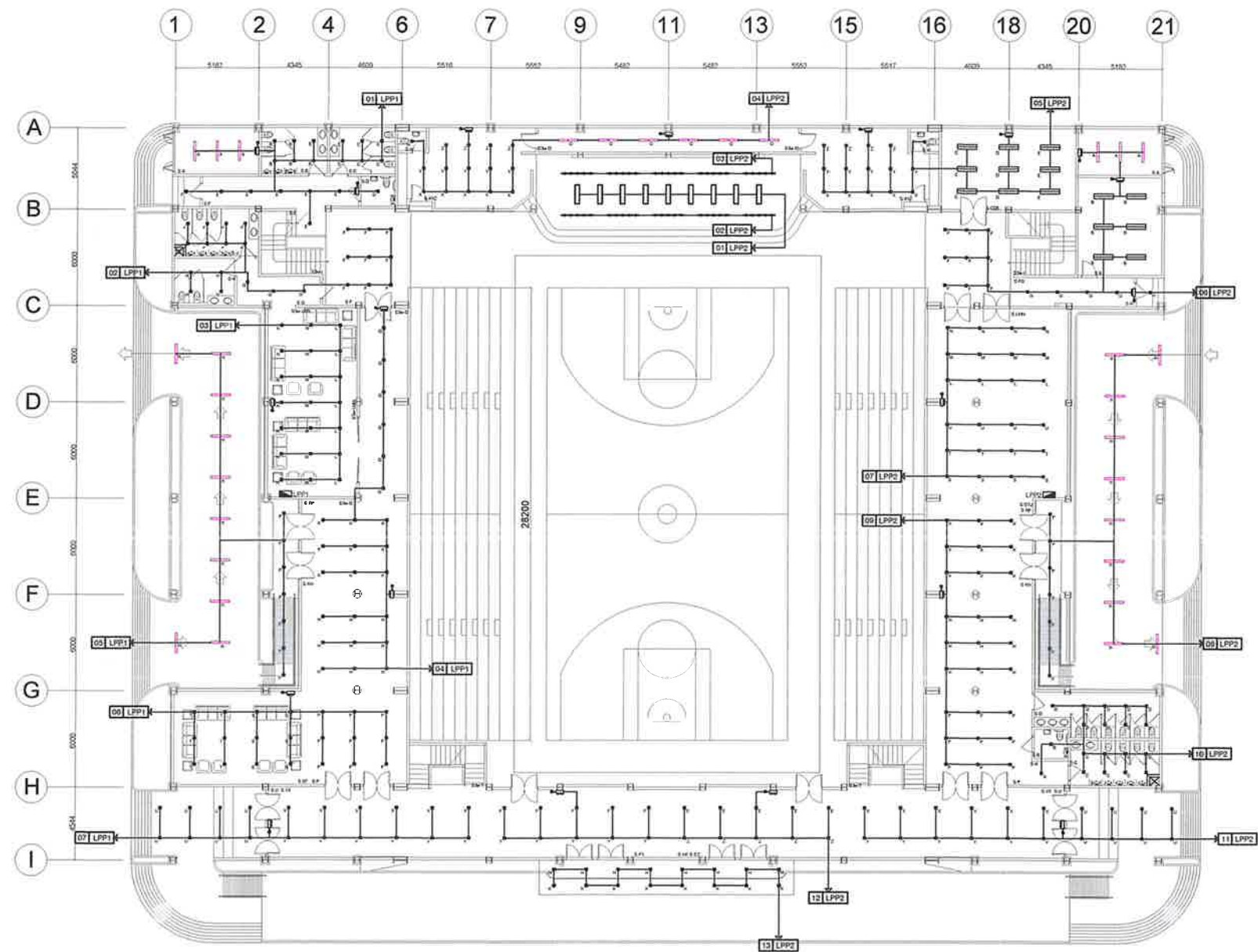
1 MOUNTING HEIGHT DETAIL
E - 1 SCALE NTS



2 SITE DEVELOPMENT PLAN
E - 1 SCALE

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PTR No. 0747905
Issued on: 01-23-2025
Issued at: CSFP
ADDRESS: THE Hausland, Pampanga, Bulacan CSFP

	PROJECT TITLE/LOCATION:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	REVIEWED:	RECOMMENDED:	APPROVED:	SET NO:	SHEET NO:
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	AS SHOWN			JOHN JERICO G. LADRANGAN CHIEF, PLANNING & DESIGN SECTION	ARTHUR O. SANTOS CHIEF, PLANNING & DESIGN DIVISION	REY M. LERIO DISTRICT ENGINEER	ROSELIER A. TOLENTINO REGIONAL DIRECTOR	



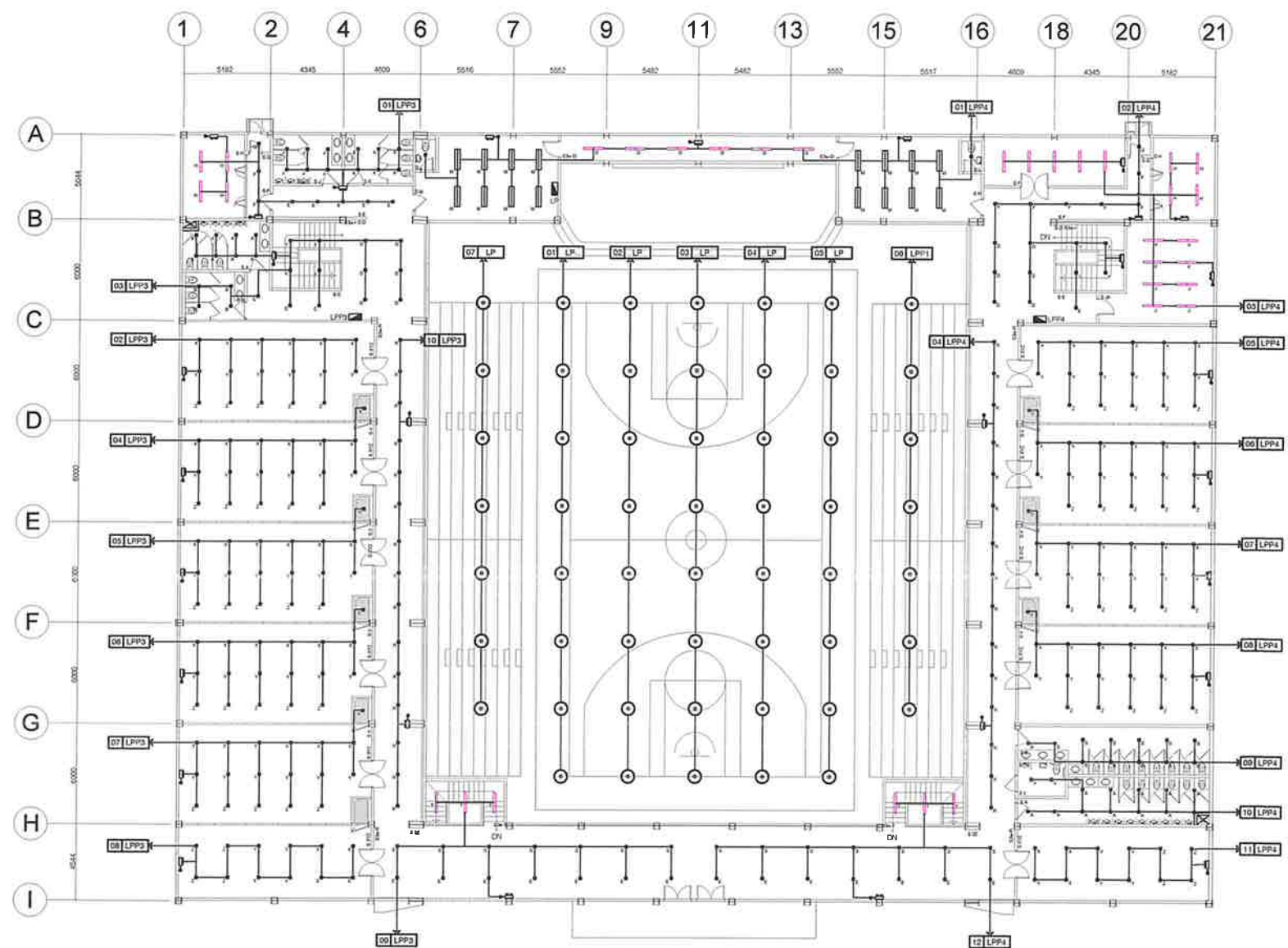
1 GROUND FLOOR LIGHTING LAYOUT
E-1 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0005093 PTR No. 0747905
Issued on: 01-02-2025 TIN No. 285-652-643
Issued at: CSEP
ADDRESS: THE Hausland, Pampanga, Bulaon CSFP



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

PROJECT TITLE/LOCATION:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	REVIEWED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	AS SHOWN	DATE: _____	JOHN JERICHO G. LADRINAN CHIEF, PLANNING & DESIGN SECTION DATE: _____	ARTHUR J. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE: _____	REY M. LERIO DISTRICT ENGINEER DATE: _____	ROSELLER A. TOLENTINO REGIONAL DIRECTOR DATE: _____	46	E1-2 46 89



1 SECOND FLOOR LIGHTING LAYOUT
E-1 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0005093 PTR No. 0747905
Issued on: 01-02-2025 TIN No. 015 562-643
Issued as: CSFP
ADDRESS: THE Hausland, Pampanga, Bulaoon CSFP



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
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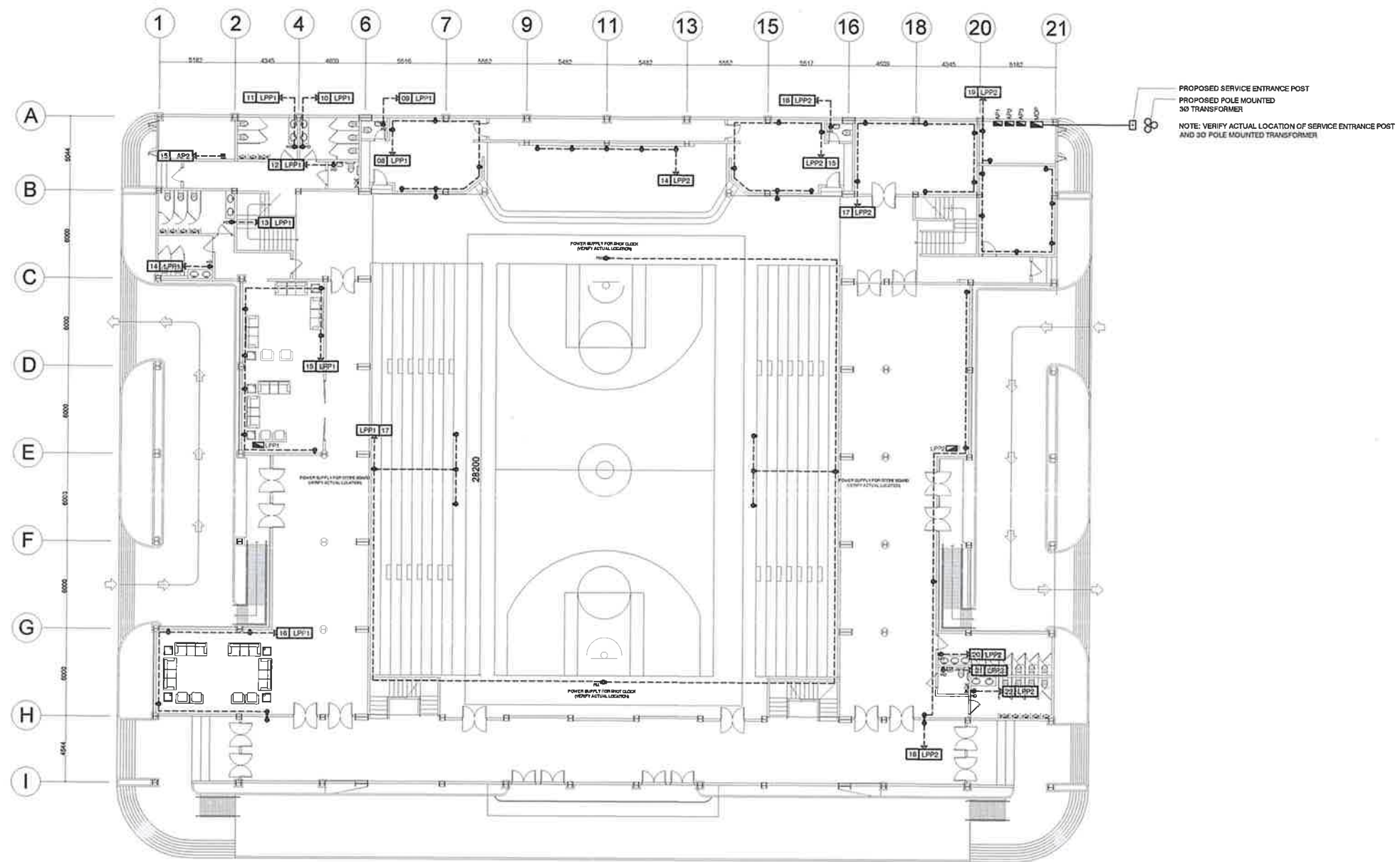
SUBMITTED:
JOHN JERICHO C. LADRINGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

REVIEWED:
ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

RECOMMENDED:
REY M. LERIO
DISTRICT ENGINEER
DATE:

APPROVED:
ROSE LER A. TOLENTINO
REGIONAL DIRECTOR
DATE:

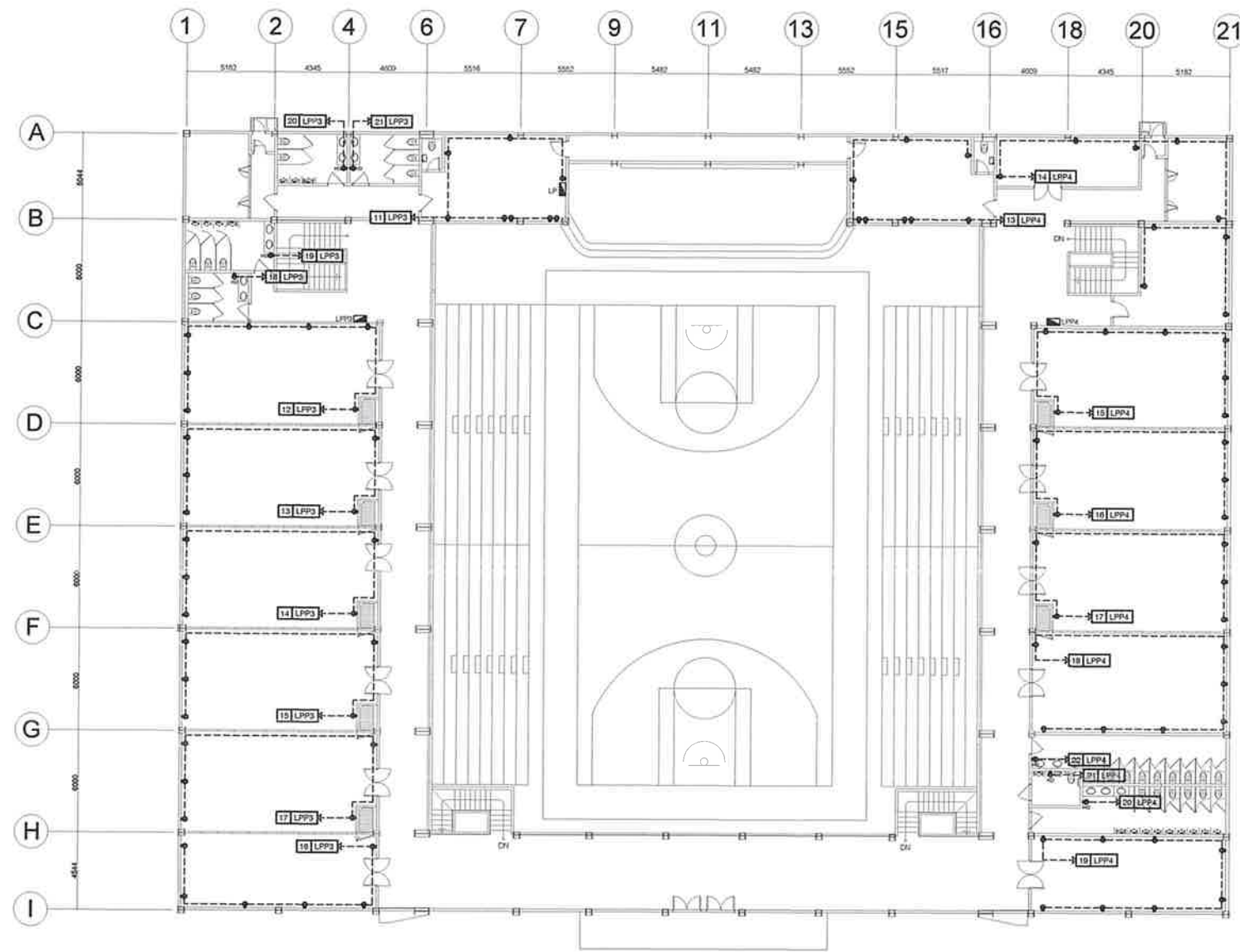
SET NO. SHEET NO.
E1-3
47 89



1 GROUND FLOOR POWER LAYOUT
E - 2 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0065003 PTR No. 0747905
Issued on: 01-02-2025 TIN No. 285-662-643
Issued at: CSFP
ADDRESS: THE Hausland, Tampilaga, Bulaoon CSFP

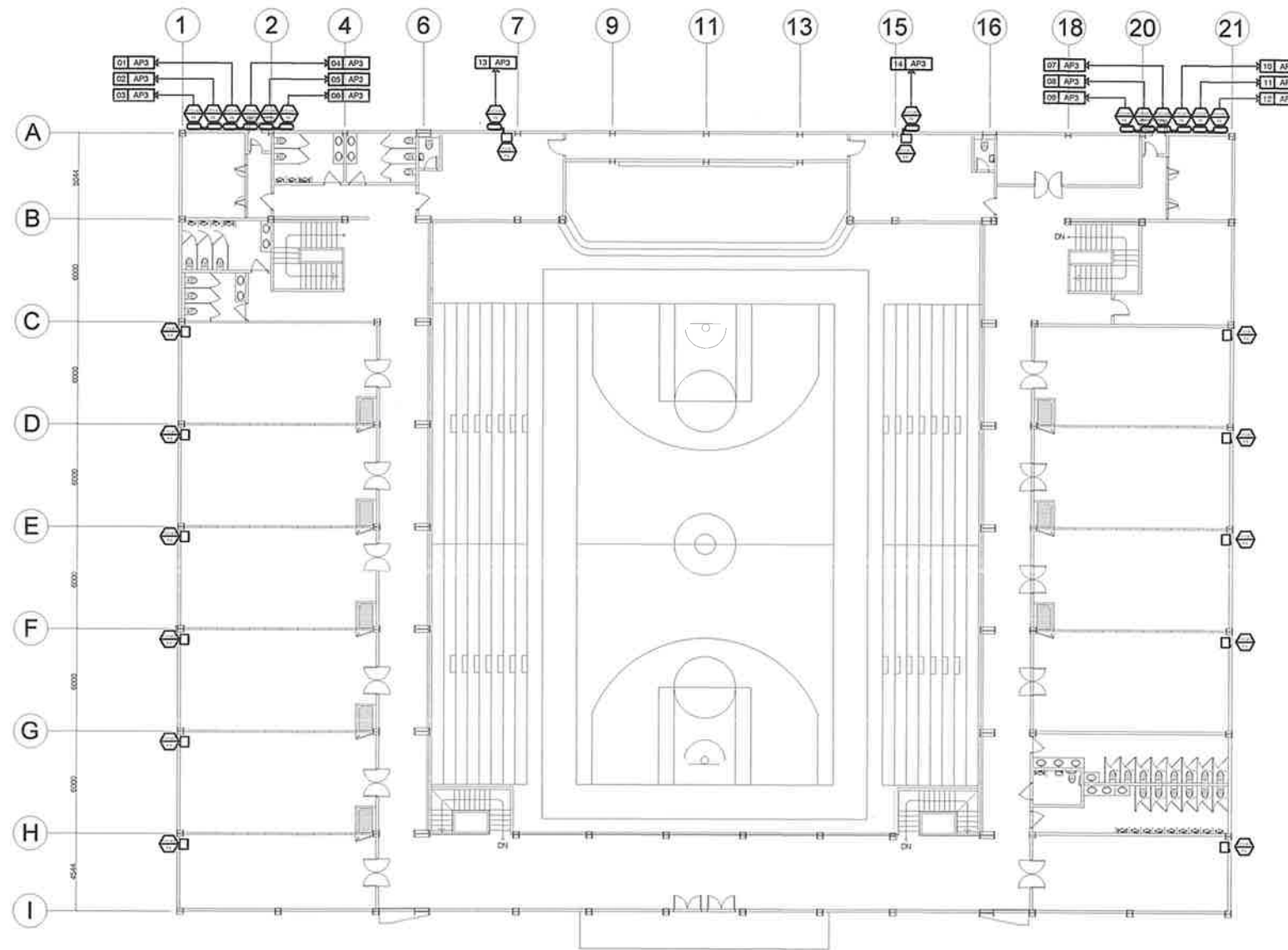
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED: DATE:	SUBMITTED: JOHN JERICO G. LADRINAR CHIEF, PLANNING & DESIGN SECTION DATE:	REVIEWED: ARTHUR D. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE:	RECOMMENDED: REY M. LERIO DISTRICT ENGINEER DATE:	APPROVED: ROSEMER A. TOLENTINO REGIONAL DIRECTOR DATE:	SET NO: SHEET NO: E2-1 48/89
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1 SECOND FLOOR POWER LAYOUT
E-2 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0005093 PTR No. 0747905
Issued on: 01-02-2025 TIN No. 285 662-643
Issued at: C&EP
ADDRESS: THE Hausland, Pampanga, Bulaon CSFP

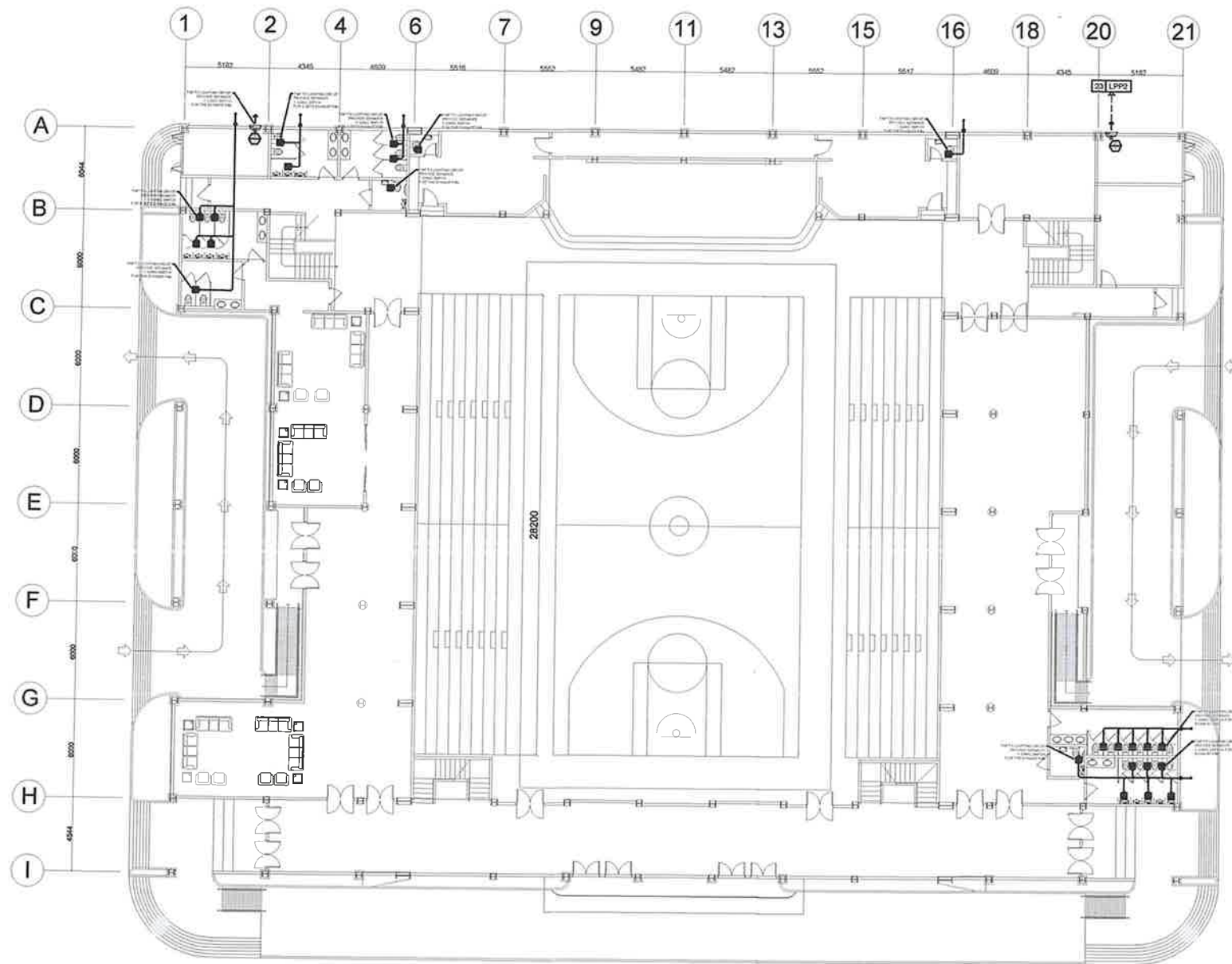
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED: _____ DATE:	SUBMITTED:  JOHN JERICHO G. CADANGAN CHIEF, PLANNING & DESIGN SECTION DATE:	REVIEWED:  ARTHUR D. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE:	RECOMMENDED:  REY M. LERIO DISTRICT ENGINEER DATE:	APPROVED:  ROSELLEN A. TOLENTINO REGIONAL DIRECTOR DATE:	SET NO. SHEET NO.  E2-2 49/89
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1 SECOND FLOOR ACCU POWER LAYOUT
E-3 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0005033 PTR No. 0747905
Issued on: 01-02-2025 TIN No. 285-662-643
Issued at: CSFP
ADDRESS: The Hausland, Pampanga, Bulaoon CSFP

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zamboales CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	AS SHOWN	DATE:	JOHN RICHIE S. EADRINGAN CHIEF, PLANNING & DESIGN SECTION DATE:	ARTHUR Q. SANTOS CHIEF, PLANNING & DESIGN DIVISION DATE:	REY M. LERIO DISTRICT ENGINEER DATE:	ROSELLER A. TOLENTINO REGIONAL DIRECTOR DATE:	51	E3-2 51/89



1 GROUND FLOOR VENTILATION SYSTEM POWER LAYOUT
E - 3 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0005093 PTR No. 0747905
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PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:

AS SHOWN

PREPARED:

DATE:

SUBMITTED:

JOHN EDUARDO SERRANO
CHIEF, PLANNING & DESIGN SECTION

DATE:

REVIEWED:

ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION

DATE:

RECOMMENDED:

REY M. BERIO
DISTRICT ENGINEER

DATE:

APPROVED:

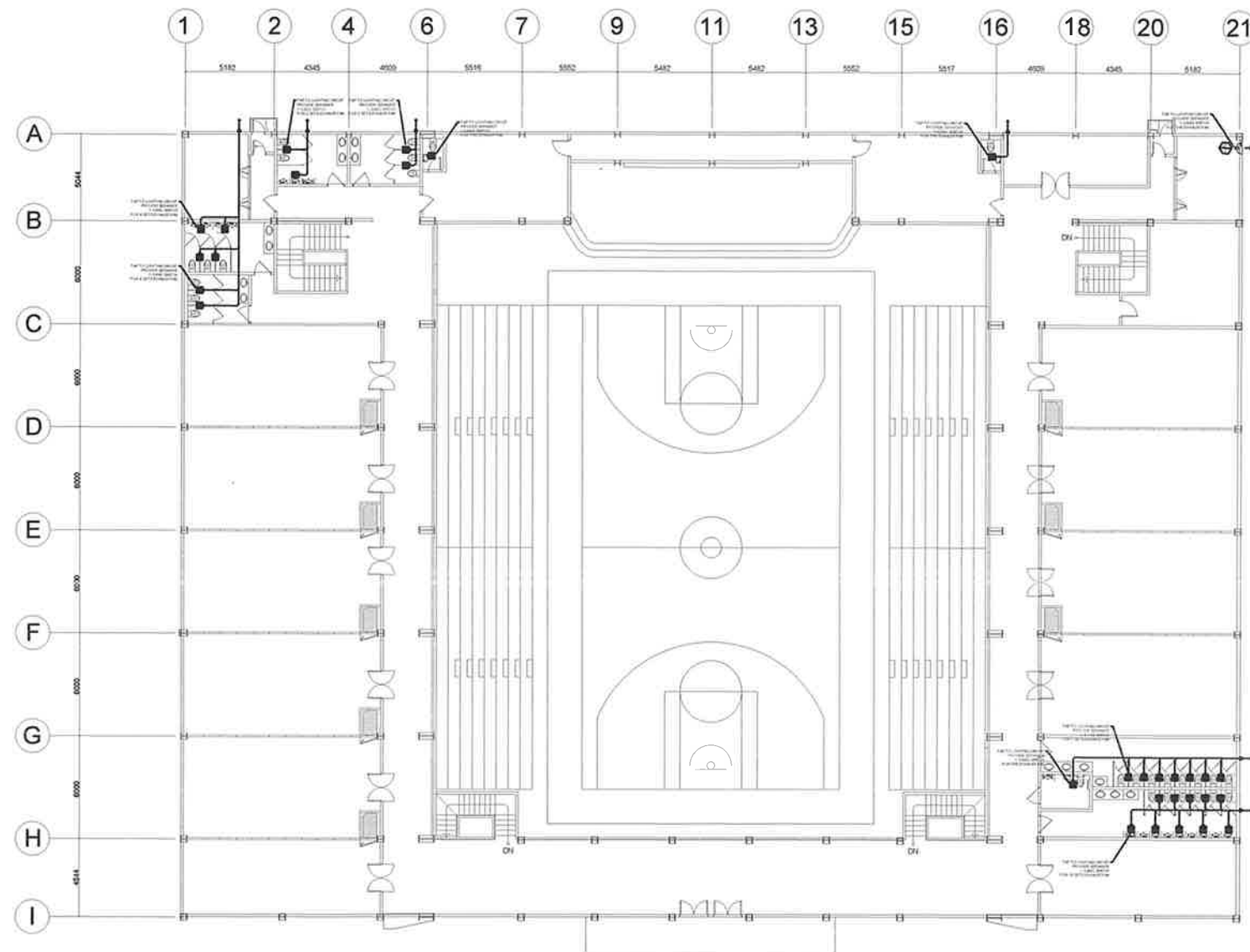
ROSEMER A. TOLENTINO
REGIONAL DIRECTOR

DATE:

SET NO:

E3-3
52 89

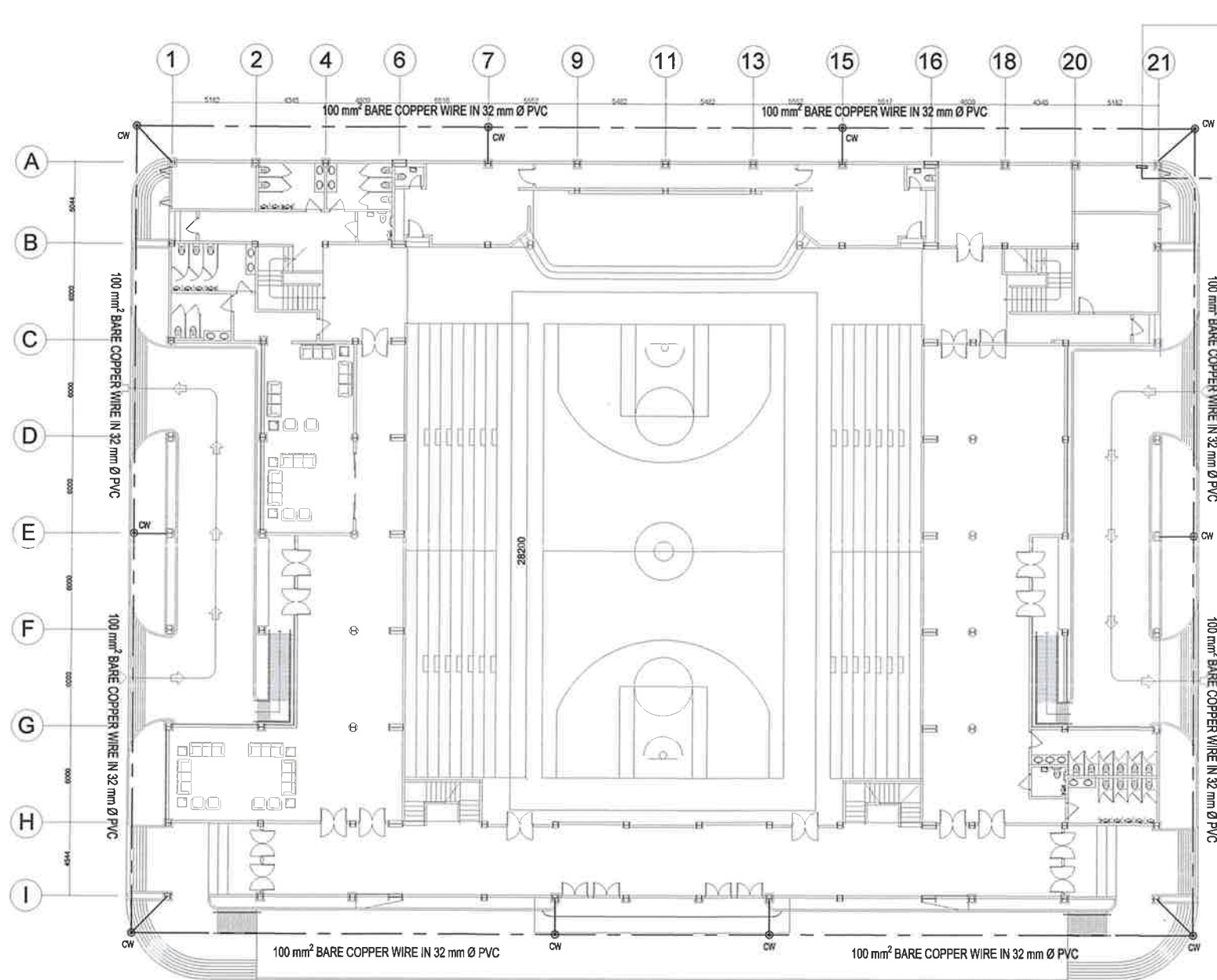
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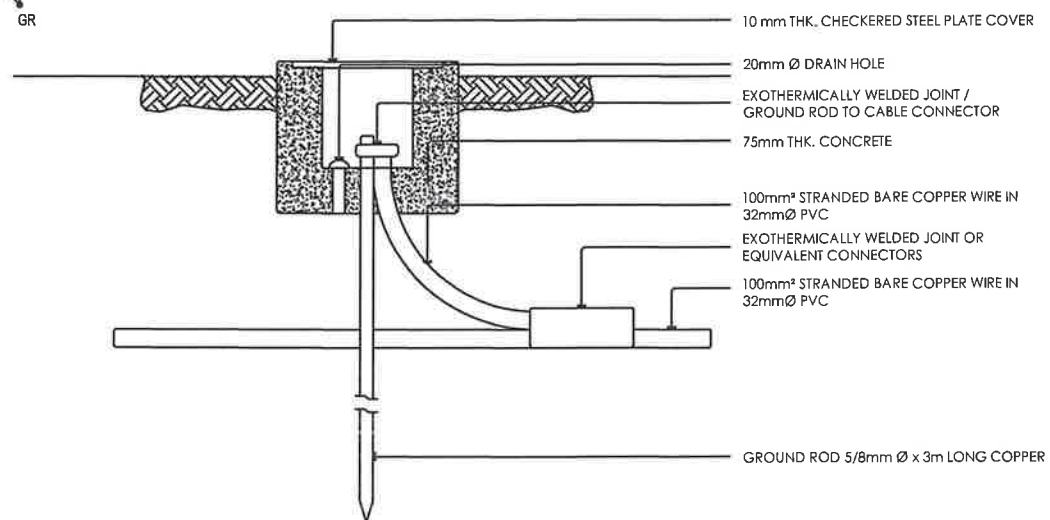
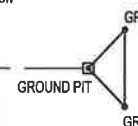
1 SECOND FLOOR VENTILATION SYSTEM POWER LAYOUT
E-3 SCALE 1:100

LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PRC No. 0065093 PTR No. 0747905
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ADDRESS: The Hausland, Pampanga, Bulacan CSFP

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400mm X 90mm x 90mm, 6 Ways
COPPER EARTH BAR
NOT EXCEEDING 1.0 OHM



EARTH PIT DETAIL
SCALE NTS

GENERAL NOTES

1. THE GROUNDING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE AND ORDINANCES OF LOCAL ENFORCING AUTHORITY
2. THE OVERALL RESISTANCE FOR THE GROUNDING SYSTEM SHALL BE LESS THEN ONE (1) OHM.
3. ONE (1) 100mm² BARE STRANDED COPPER CONDUCTOR IN 32mm Ø PVC PIPE EACH CONDUCTOR SHALL BE BONDED TO INCOMING OF SERVICES METAL PIPE INCLUDING GAS, WATER SEWAGE ETC.

LEGENDS

- 100mm² STRANDED BARE COPPER IN 32mm Ø PVC CONDUIT
- 5/8mm x 3MTRS GROUND ROD/ELECTRODE
- CW CAD WELD COPPER TO REBAR OR EQUIVALENT
- GROUND/EARTH PIT

1 GROUNDING LAYOUT
E-3 SCALE 1:100

LOUIE G. SERRANO
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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zambales	PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	SHEET CONTENTS: AS SHOWN	PREPARED: DATE:	SUBMITTED: DATE:	REVIEWED: DATE:	RECOMMENDED: DATE:	APPROVED: DATE:	SHEET NO.: E3-5 54/89
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COMPUTATION & LOAD SCHEDULE - LPP1														
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WIRES AND CONDUITS	
					ØAB	ØBC	ØCA		ØABC	AF	POLE	KAIC		AT
1	LIGHTING + EF	1,300	230	5.65	5.65				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
2	LIGHTING + EF	1,350	230	5.87	5.87				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
3	LIGHTING	1,050	230	4.57		4.57			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
4	LIGHTING	1,200	230	5.22		5.22			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
5	LIGHTING	850	230	3.70			3.70		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
6	LIGHTING	1,050	230	4.57			4.57		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
7	LIGHTING	1,000	230	4.35	4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
8	C.O.	1,080	230	4.70	4.70				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
9	HAND DRYER	1,000	230	4.35		4.35			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
10	HAND DRYER	1,000	230	4.35		4.35			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
11	HAND DRYER	1,000	230	4.35			4.35		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
12	HAND DRYER	1,000	230	4.35			4.35		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
13	HAND DRYER	1,000	230	4.35	4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
14	HAND DRYER	1,000	230	4.35	4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
15	C.O.	1,260	230	5.48		5.48			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
16	C.O.	900	230	3.91		3.91			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
17	C.O.	1,800	230	7.83			7.83		50	2	10	20		2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
18	SPARE	1,500	230	6.52			6.52		50	2	10	20		in 20 mm Ø PVC
TOTAL					29.26	27.87	31.30							

I_{FEEDER} = [1.732 (29.26) (0.90D.F.)] + 0.25 (4.35) : 46.70 AMPERES
 I_{PROTECTION} = [1.732 (29.26) (0.90D.F.)] + 1.50 (4.35) : 52.13 AMPERES
 Size of Circuit Breaker Protection : 75AT / 100AF, 3P, 240V, 10KAIC
 Size of Wire : 3 - 30mm² + 1 - 8mm² (G) THHN
 Size of Conduit : IN 40 mm Ø PVC/RSC

COMPUTATION & LOAD SCHEDULE - LPP2															
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase				3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WIRES AND CONDUITS	
					ØAB	ØBC	ØCA	ØABC		AF	POLE	kAIC	AT		
1	LIGHTING	1,000	230	4.35	4.35					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
2	LIGHTING	900	230	3.91	3.91					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
3	LIGHTING	1,000	230	4.35		4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
4	LIGHTING + EF	1,150	230	5.00		5.00				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
5	LIGHTING	1,200	230	5.22			5.22			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
6	LIGHTING	1,150	230	5.00			5.00			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
7	LIGHTING	1,200	230	5.22	5.22					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
8	LIGHTING	850	230	3.70	3.70					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
9	LIGHTING	1,350	230	5.87		5.87				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
10	LIGHTING + EF	1,310	230	5.70		5.70				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
11	LIGHTING	1,000	230	4.35			4.35			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
12	LIGHTING	1,000	230	4.35			4.35			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
13	LIGHTING	800	230	3.48	3.48					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
14	C.O.	900	230	3.91	3.91					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
15	C.O.	1,080	230	4.70		4.70				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
16	HAND DRYER	1,000	230	4.35		4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
17	C.O.	1,080	230	4.70			4.70			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
18	C.O.	900	230	3.91			3.91			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
19	C.O.	1,440	230	6.26	6.26					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
20	HAND DRYER	1,000	230	4.35	4.35					50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
21	HAND DRYER	1,000	230	4.35		4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
22	HAND DRYER	1,000	230	4.35		4.35				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
23	EF-3	1,200	230	5.22			5.22			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
24	FDAS	1,000	230	4.35			4.35			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
TOTAL					35.17	38.65	37.09								

I_{FEEDER} = [1.732 (38.65) (0.90D.F.)] + 0.25 (5.22) : 63.25 AMPERES
 I_{PROTECTION} = [1.732 (38.65) (0.90D.F.)] + 1.50 (5.22) : 68.08 AMPERES
 Size of Circuit Breaker Protection : 75AT / 100AF, 3P, 240V, 10KAIC
 Size of Wire : 3 - 30mm² + 1 - 8mm² (G) THHN
 Size of Conduit : IN 40 mm Ø PVC/RSC

COMPUTATION & LOAD SCHEDULE - LPP3														
Circuit No	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WIRES AND CONDUITS	
					ØAB	ØBC	ØCA		ØABC	AF	POLE	KAIC		AT
1	LIGHTING + EF	1,320	230	5.74	5.74				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
2	LIGHTING	850	230	3.70	3.70				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
3	LIGHTING + EF	1,430	230	6.22		6.22			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
4	LIGHTING	900	230	3.91		3.91			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
5	LIGHTING	900	230	3.91			3.91		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
6	LIGHTING	900	230	3.91			3.91		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
7	LIGHTING	900	230	3.91	3.91				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
8	LIGHTING	600	230	2.61	2.61				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
9	LIGHTING	850	230	3.70		3.70			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
10	LIGHTING	750	230	3.26		3.26			50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
11	C.O.	1,440	230	6.26			6.26		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
12	C.O.	1,260	230	5.48			5.48		50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
13	C.O.	900	230	3.91	3.91				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
14	C.O.	900	230	3.91	3.91				50	2	10	20		2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC
15	C.O.	900	230	3.91		3.91			50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
16	C.O.	1,080	230	4.70		4.70			50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
17	C.O.	900	230	3.91			3.91		50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
18	HAND DRYER	1,000	230	4.35				4.35	50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
19	HAND DRYER	1,000	230	4.35	4.35				50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
20	HAND DRYER	1,000	230	4.35	4.35				50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
21	HAND DRYER	1,000	230	4.35		4.35			50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
22	HAND DRYER	1,000	230	4.35		4.35			50	2	10	20	2 - 3.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC	
23	SPARE	1,000	230	4.35			4.35		50	2	10	20	in 20 mm Ø PVC	
24	SPARE	1,000	230	4.35			4.35		50	2	10	20	in 20 mm Ø PVC	
TOTAL					32.46	34.39	36.52							

COMPUTATION & LOAD SCHEDULE - AP1																
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø		BRANCH CIRCUIT BREAKERS				SIZE OF WRES AND CONDUITS		
					ØAB	ØBC	ØCA	ØABC	AF	POLE	KALC	AT				
1	ACCU - 60	6,240	230	18.43				18.43	50	3	10	50	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
2	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
3	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
4	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
5	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
6	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
7	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
8	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
9	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
10	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
11	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
12	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
13	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
14	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
15	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
16	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
TOTAL								294.88								

I_{FEEDER} = 294.88 (0.90D.F.) + 0.25 (18.43) : 269.99 AMPERES
 I_{PROTECTION} = 294.88 (0.90D.F.) + 1.50 (18.43) : 293.04 AMPERES
 Size of Circuit Breaker Protection : 350AT / 400AF, 3P, 240V, 36kAIC
 Size of Wire : 3 - 250mm² + 1 - 50mm² (G) THHN
 Size of Conduit : IN 90 mm Ø PVC/RSC

COMPUTATION & LOAD SCHEDULE - AP2																
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WIRES AND CONDUITS			
					ØAB	ØBC	ØCA		ØABC	AF	POLE	KALC		AT		
1	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
2	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
3	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
4	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
5	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
6	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
7	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
8	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
9	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
10	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
11	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
12	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
13	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
14	ACCU - 60	6,240	230	18.43				18.43	50	3	10	40	3 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
15	5HP PUMP	2300	230	15.20				15.20	50	3	10	30	3 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 25 mm Ø PVC			
16	SPARE	6,240	230	18.43				18.43	50	3	10	40				
TOTAL								291.65								

I_{FEEDER} = 291.65 (0.90D.F.) + 0.25 (18.43) : 266.09 AMPERES
 I_{PROTECTION} = 291.65 (0.90D.F.) + 1.50 (18.43) : 290.13 AMPERES
 Size of Circuit Breaker Protection : 350AT / 400AF, 3P, 240V, 36kAIC
 Size of Wire : 3 - 250mm² + 1 - 50mm² (G) THHN
 Size of Conduit : IN 90 mm Ø PVC/RSC

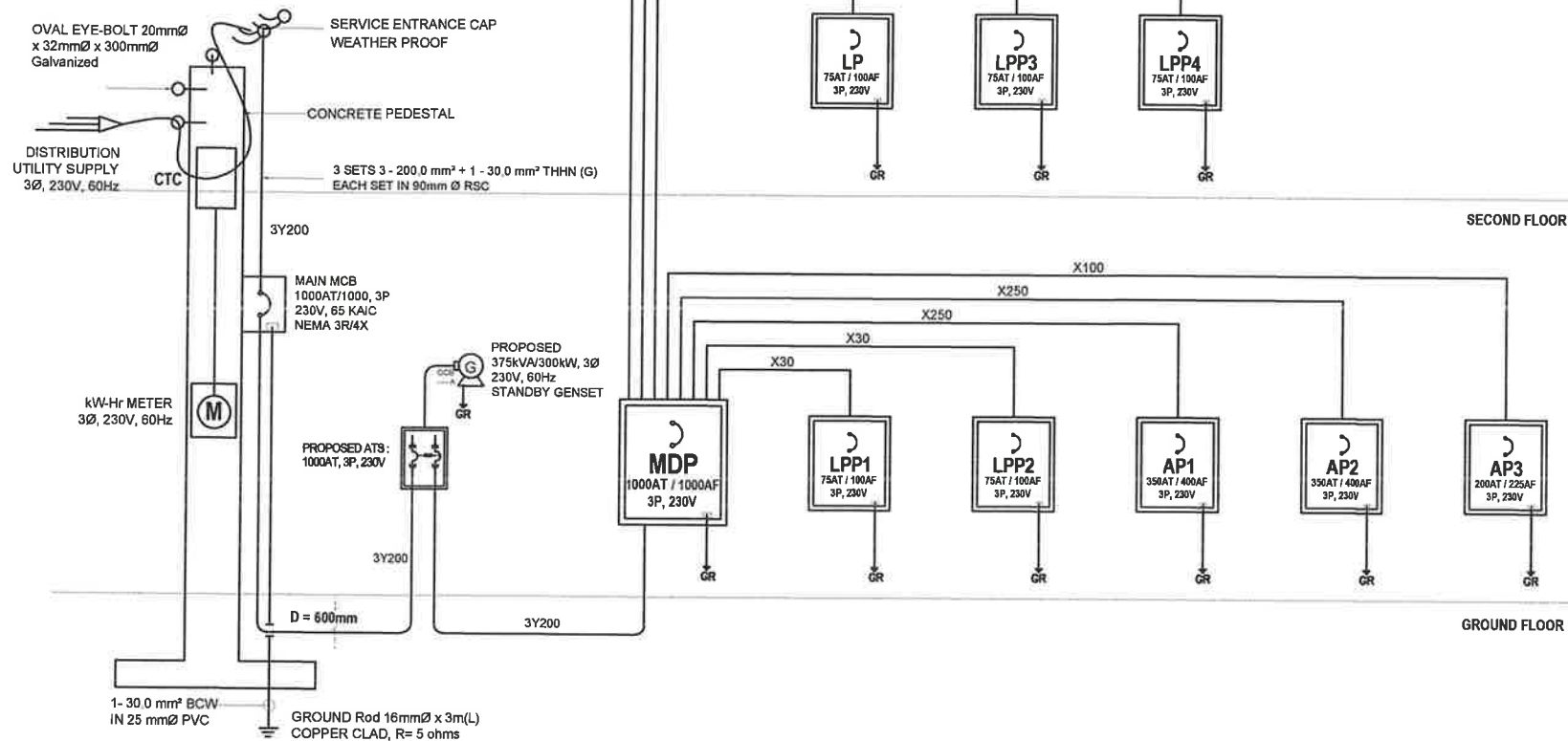
COMPUTATION & LOAD SCHEDULE - AP3																
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WRES AND CONDUITS			
					ØAB	ØBC	ØCA		ØABC	AF	POLE	kAIC		AT		
1	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
2	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
3	ACCU - 4.0	5,060	230	22.00		22.00			50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
4	ACCU - 4.0	5,060	230	22.00		22.00			50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
5	ACCU - 4.0	5,060	230	22.00			22.00		50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
6	ACCU - 4.0	5,060	230	22.00			22.00		50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
7	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
8	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
9	ACCU - 4.0	5,060	230	22.00		22.00			50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
10	ACCU - 4.0	5,060	230	22.00		22.00			50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
11	ACCU - 4.0	5,060	230	22.00			22.00		50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
12	ACCU - 4.0	5,060	230	22.00			22.00		50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
13	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
14	ACCU - 4.0	5,060	230	22.00	22.00				50	2	10	40	2 - 8.0 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
15	SPARE	5,060	230	22.00		22.00			50	2	10	40	-			
16	SPARE	5,060	230	22.00		22.00			50	2	10	40	-			
17	SPARE	5,060	230	22.00			22.00		50	2	10	40	-			
18	SPARE	5,060	230	22.00			22.00		50	2	10	40	-			
TOTAL					88.00	88.00	88.00									

I_{FEEDER} = [1.732 (88.00) (0.90D.F.)] + 0.25 (22.00) : 142.67 AMPERES
 I_{PROTECTION} = [1.732 (88.00) (0.90D.F.)] + 1.50 (22.00) : 170.17 AMPERES
 Size of Circuit Breaker Protection : 200AT / 225AF, 3P, 240V, 25kAIC
 Size of Wire : 3 - 100mm² + 1 - 30mm² (G) THHN
 Size of Conduit : IN 80 mm Ø PVC/RSC

COMPUTATION & LOAD SCHEDULE - LP																
Circuit No.	LOAD DESCRIPTION	WATTS	VOLTS	AMPS	Current per Phase			3Ø	BRANCH CIRCUIT BREAKERS				SIZE OF WIRES AND CONDUITS			
					ØAB	ØBC	ØCA		ØABC	AF	POLE	KAC		AT		
1	250W LED HIGHBAY LIGHT	2,000	230	8.70	8.70				50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
2	250W LED HIGHBAY LIGHT	2,000	230	8.70	8.70				50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
3	250W LED HIGHBAY LIGHT	2,000	230	8.70		8.70			50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
4	250W LED HIGHBAY LIGHT	2,000	230	8.70		8.70			50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
5	250W LED HIGHBAY LIGHT	2,000	230	8.70			8.70		50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
6	250W LED HIGHBAY LIGHT	2,000	230	8.70			8.70		50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
7	250W LED HIGHBAY LIGHT	2,000	230	8.70	8.70				50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
8	250W LED HIGHBAY LIGHT	2,000	230	8.70	8.70				50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
9	250W LED HIGHBAY LIGHT	2,000	230	8.70		8.70			50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
10	250W LED HIGHBAY LIGHT	2,000	230	8.70		8.70			50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
11	SPARE	2,000	230	8.70			8.70		50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
12	SPARE	2,000	230	8.70			8.70		50	2	10	30	2 - 5.5 mm ² THHN + 1 - 3.5 mm ² THHN (G) in 20 mm Ø PVC			
TOTAL								34.78	34.78	34.78						

LEGEND:

X30	3 - 30.0 mm ² + 1 - 8.0 mm ² (G) THHN IN 40 mm Ø C
X100	3 - 100.0 mm ² + 1 - 30.0 mm ² (G) THHN IN 80 mm Ø C
X250	3 - 250.0 mm ² + 1 - 50.0 mm ² (G) THHN IN 90 mm Ø C
Y200	3 - 200.0 mm ² + 1 - 30.0 mm ² (G) THHN IN 90 mm Ø C



1 ELECTRICAL SYSTEM SINGLE LINE DIAGRAM
E - 4 SCALE NTS.

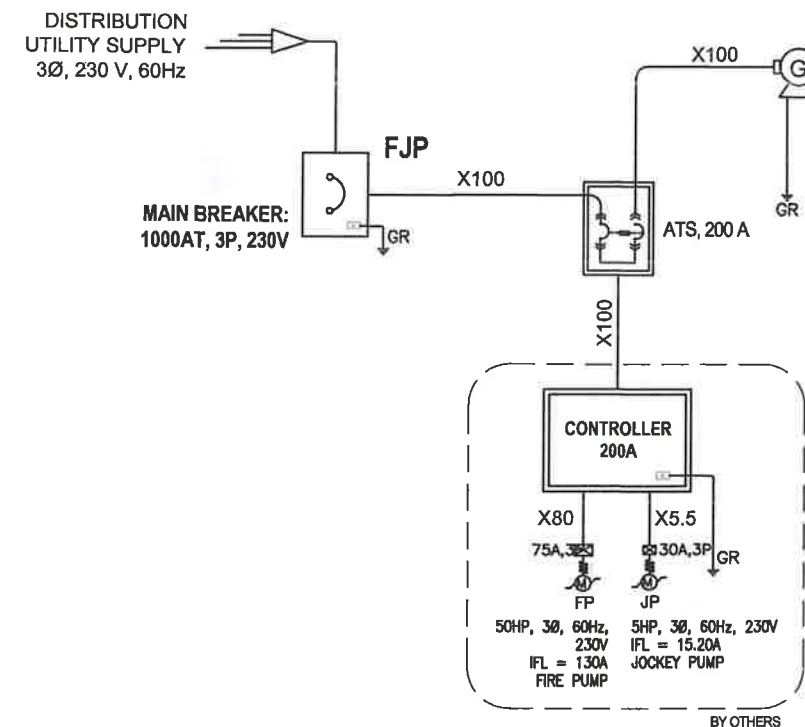
Fire Pump		
I = IFL x 125%	162.50	A
OCPD Size	175.00	A
Wire Size	3 - 80 mm ² + 1-22mm ² (G) THHN in 65mm Ø C	

Jockey Pump		
I = IFL x 125%	19.00	A
OCPD Size	30.00	A
Wire Size	3 - 5.5 mm ² + 1-3.5mm ² (G) THHN in 20mm Ø C	

ATS/Controller		
I = [(IFL(FP) + IFL(JP))] x 125%	181.50	A
OCPD Size	200.00	A
Wire Size	3 - 100 mm ² + 1-30mm ² (G) THHN in 80mm Ø C	

Main Breaker		
I = ILC(FP) + ILC(JP)		
ILC(Fire Pump)	725.00	A
ILC(Jockey Pump)	92.00	A
	817.00	A
OCPD Size	1000.00	A
Wire Size (Same as controller)	3 - 100 mm ² + 1-30mm ² (G) THHN in 80mm Ø C	

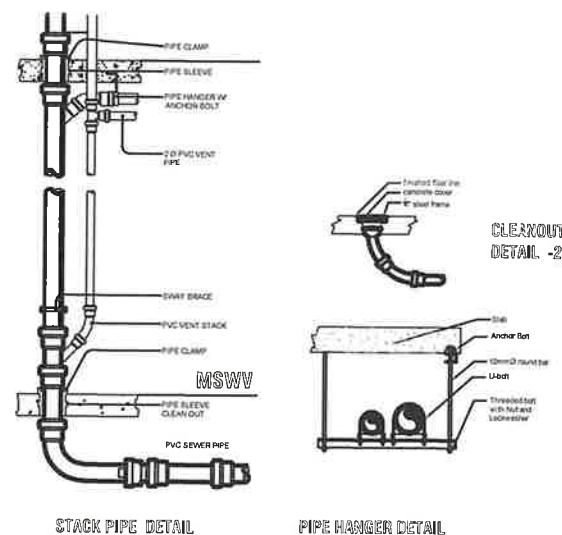
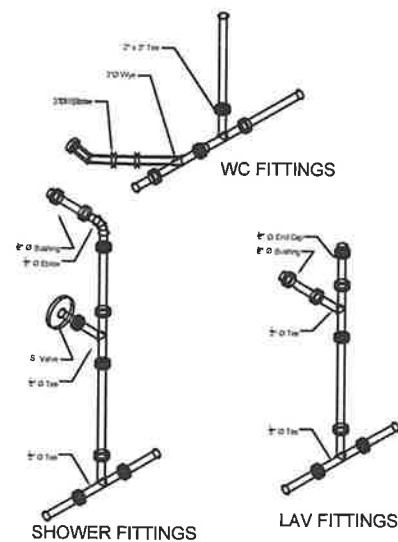
LEGEND:	
X5.5	3-5.5mm ² + 1-3.5mm ² (G) THHN (FIRE RATED) 20mm Ø IMC/PVC
X50	3-80mm ² + 1-22mm ² (G) THHN (FIRE RATED) 65mm Ø IMC/PVC
X80	3-100mm ² + 1-30mm ² (G) THHN (FIRE RATED) 80mm Ø IMC/PVC



2 AFSS SINGLE LINE DIAGRAM
E - 4 SCALE
LOUIE G. SERRANO
PROFESSIONAL ELECTRICAL ENGINEER
PTR No. 0005093
Issued on: 01-02-2025
Issued at: CSFP
ADDRESS: THE Hausland, Pampanga, Bulacan CSFP

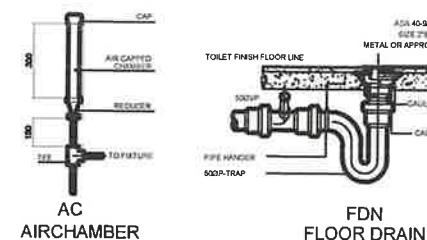
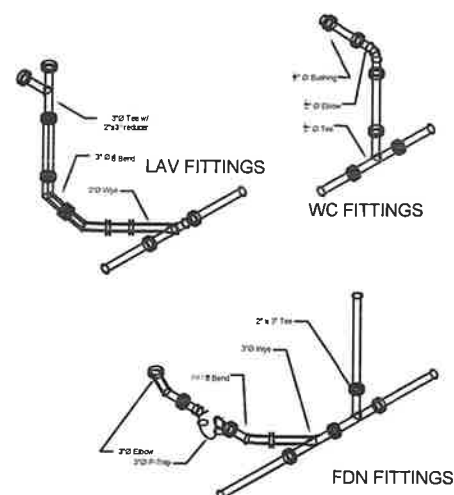
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE San Nicolas Castillejos Zambales	PROJECT TITLE/LOCATION:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	REVIEWED:	RECOMMENDED:	APPROVED:	SET NO:	SHEET NO:
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN, CASTILLEJOS, ZAMBALES	AS SHOWN		JOHN JERICO G. LADRINGAN CHIEF, PLANNING & DESIGN SECTION	ARTHUR D. SANTOS CHIEF, PLANNING & DESIGN DIVISION	REY M. LERIO DISTRICT ENGINEER	ROSELLER A. TOLENTINO REGIONAL DIRECTOR		E4-3 57 89

1. ALL PLUMBING WORKS TO BE DONE AND SIZES OF PIPES TO BE USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL REGULATIONS AND ORDINANCES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED IN THE WORKING DRAWINGS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE UPON THE APPROVAL OF THE SANITARY ENGINEER.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. ALL PIPES SHALL BE PROVIDED W/ PROPER HANGER AND SUPPORT
5. ALL FIXTURES SHALL BE VENTED INDIVIDUALLY AND WATERLINES SHALL BE VALVE BY GROUP
6. UNLESS OTHERWISE SPECIFIED, ALL PLUMBING FIXTURES SHALL BE PROPERLY VENTED. MAXIMUM DISTANCE OF VENTILATION FROM FIXTURES SHALL BE 1.50 m MEASURED ALONG THE LENGTH OF PIPE.
7. ALL PLUMBING FITTINGS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE MANHOLE IF SUCH INSTALLATIONS ARE INSIDE THE CEILING.
8. ALL CHANGES IN DIRECTIONS SHALL BE MADE BY THE APPROPRIATE USE OF FORTY FIVE (45) WYE LONG SWEEP QUARTER BEND. ONE EIGHT WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE BEND COMBINATION MAY BE USED ONLY ON VENT PIPE.
9. NO DOUBLE HUB OR DOUBLE TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES.
10. PROVIDE PIPE SLEEVES AT WALL, COLUMNS OR SLAB TO PROTECT FROM BREAKAGE.
11. ALL EXPOSED PIPINGS AND FITTINGS IN THE AREAS SHALL BE CHROME PLATED.
12. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
13. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGE END.
14. USE POLYPROPYLENE RANDOM, TYPE 3, PN20 FOR ALL WATER PIPING SYSTEM.
15. USE uPVC SANITARY PIPING SYSTEM SERIES 1000 FOR 100
16. ENGINEER-IN-CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE, STREET SEWER AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.

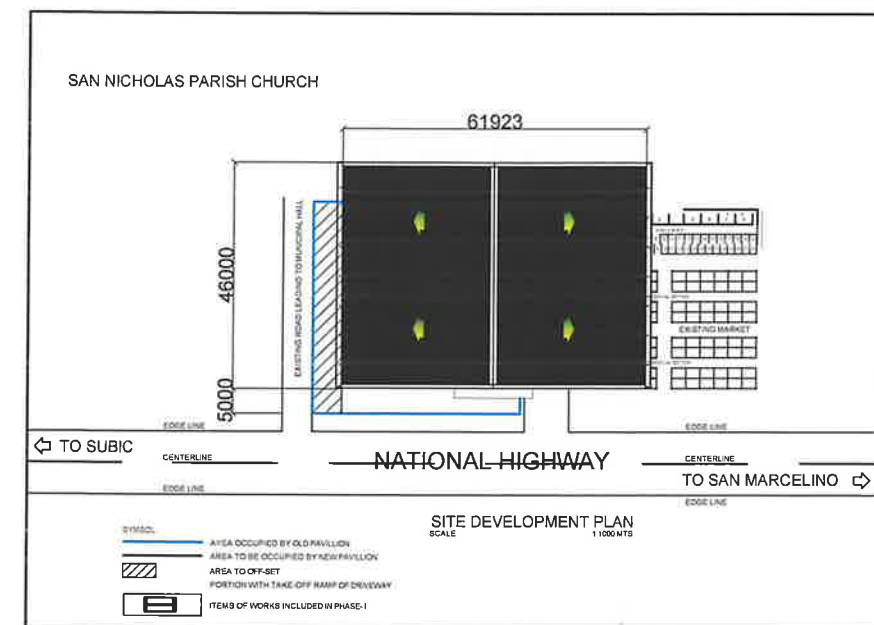


1 VICINITY MAP
P-1 NOT TO SCALE

WATER DISTRIBUTION SYSTEM		
		WATER LINE
		FIRE LINE
	GV	GATE VALVE
	FV	FLOAT VALVE
	WSP	WET STAND PIPE
	DSP	DRY STAND PIPE
	FHC	FIRE HOSE CABINET
	BI	BLACK IRON PIPE
WASTE, SEWER & VENT SYSTEM		
		SANITARY LINE
		VENT LINE
	FCO	FLOOR CLEAN-OUT
	FD	SHOWER/FLOOR DRAIN
	VS	VENT STACK
	SS	SOIL STACK
	VAC	VENT ACROSS CEILING
	VP	VENT PIPE
	PVC	POLYVINYL CHLORIDE
	WP	WET PIPE
	SP	SOIL PIPE
	VTR	VENT THRU ROOF
	ST	SEPTIC TANK
	AC	AIR CHAMBER
WASTE, SEWER & VENT SYSTEM		
		DRAINAGE LINE
	DS	DOWNSPOUT
	CB	CATCH BASIN
	RD	ROOF DRAIN
	CD	CORRIDOR DRAIN
PLUMBING FIXTURES		
	LAV	LAVATORY
	WC	WATER CLOSET
	EWT	ELEVATED WATER TANK



3 PLUMBING DETAILS
P-1 SCALE NTS.



2 SITE DEVELOPMENT PLAN
P-1 SCALE: 1:1000MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

PROJECT TITLE/LOCATION:

CONVERGENCE AND SPECIAL SUPPORT PROGRAM,
BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES ,REHABILITATION OF MULTI- PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,

CASTILLEJOS, ZAMBALES

SHEET CONTENTS:

AS SHOWN

PREPARED:	
-----------	--

SUBMITTED

JOHN JERICO G. LADRINGAN
CHIEF, PLANNING & DESIGN SECTION

DATE:

REVIEWED:

ARTHUR Q. SANTOS
CHIEF, PLANNING & DESIGN DIVISION

DATE:

REVIEWED:

RECOMMENDED:

REY M. LERIO
DISTANCE ENGINEER

Fig. 4. (continued)

APPROVED

ROSELLER A. TOLENTINO
A-1. REGIONAL DIRECTOR

11

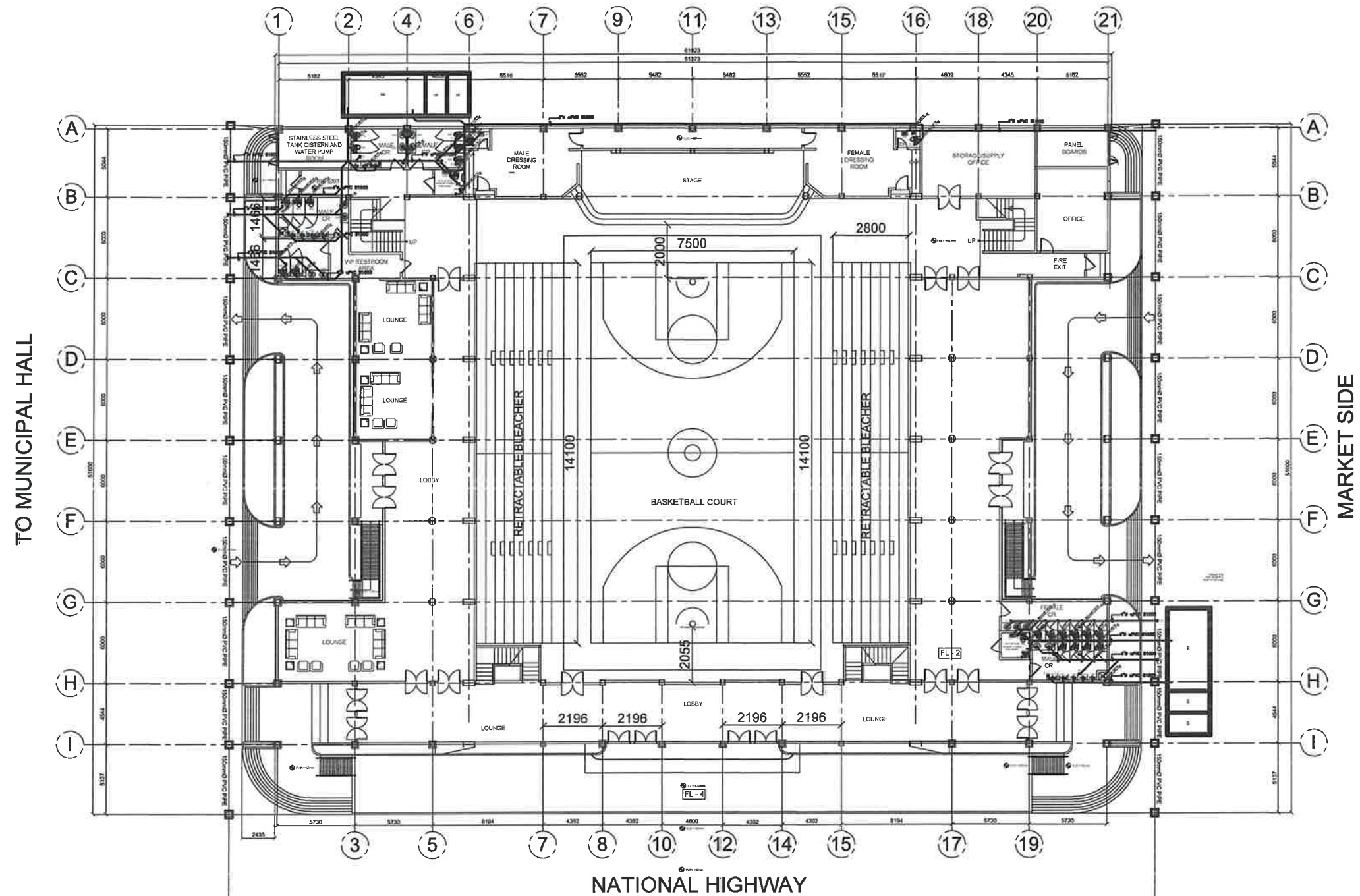
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SHEET NO:

P1-1

58	89
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SAN NICHOLAS PARISH CHURCH



1 GROUND FLOOR SANITARY LAYOUT
P-1 SCALE: 1:200MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zamboales

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BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES, REHABILITATION OF MULTI-PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,
CASTILLEJOS, ZAMBALES

SHEET CONTENTS:
AS SHOWN

PREPARED:
[Signature]
DATE:

SUBMITTED:
[Signature]
JOHN JERICHO S. LADRANGAN
CHIEF, PLANNING & DESIGN SECTION
DATE:

REVIEWED:
[Signature]
ARTHUR D. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

RECOMMENDED:
[Signature]
REY M. LERO
DISTRICT ENGINEER
DATE:

APPROVED:
[Signature]
ROSELLA A. TOLENTINO
REGIONAL DIRECTOR
DATE:

SET NO:
SHEET NO:
P1-2
59/89