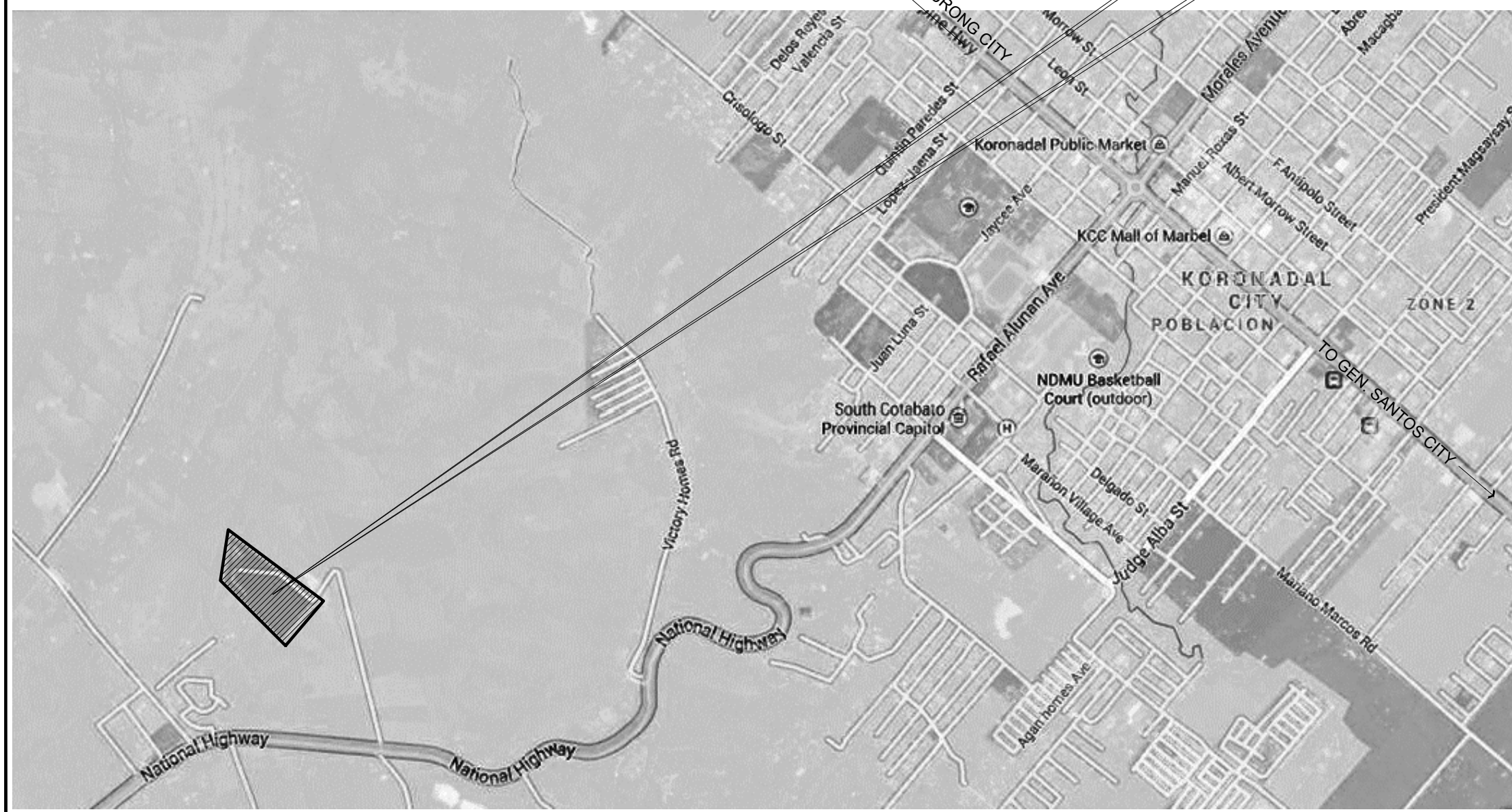
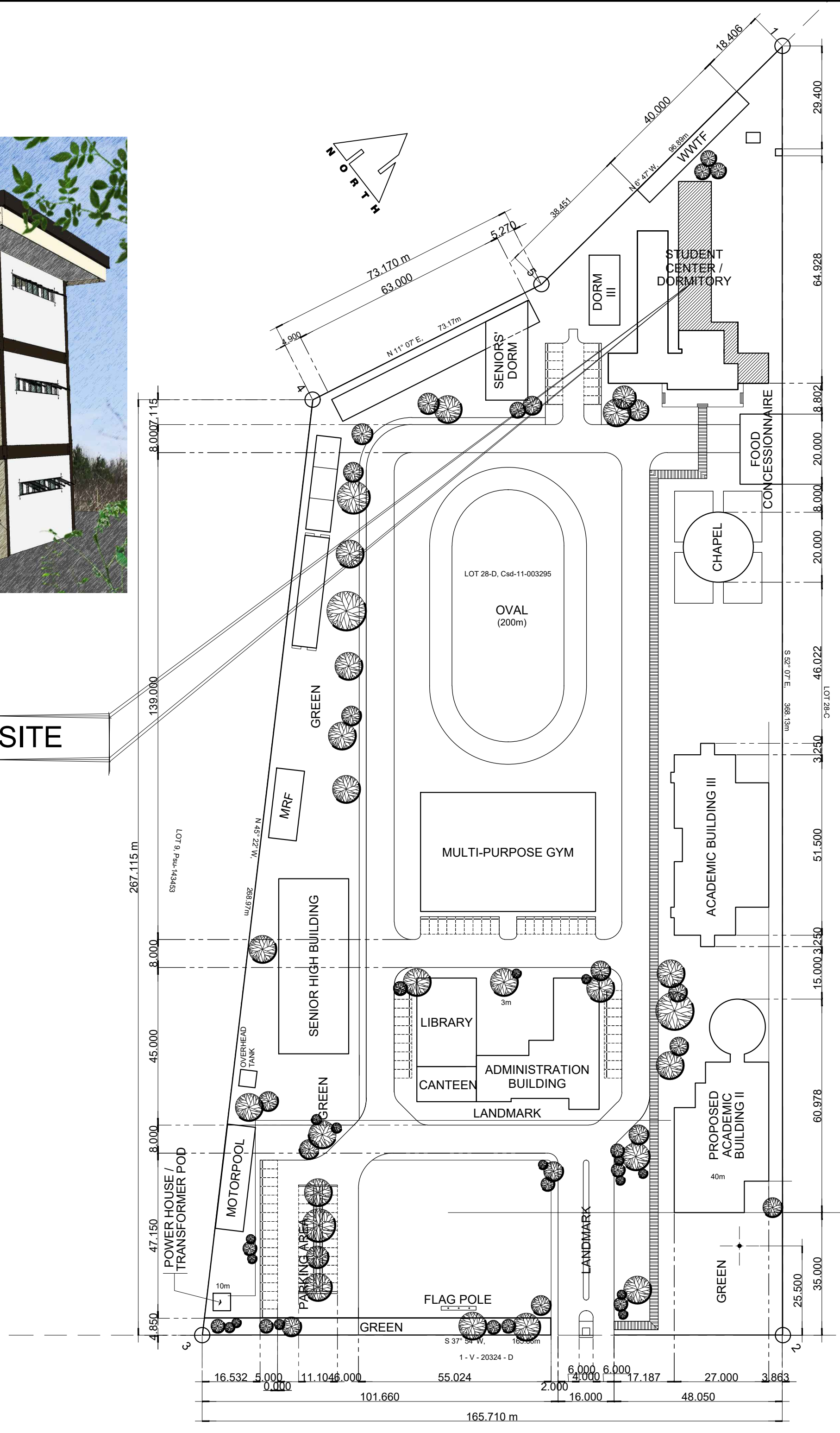




01 **PERSPECTIVE**
A-01 SCALE: NTS



02 **LOCATION PLAN**
A-01 SCALE: NTS



03 **SITE DEVELOPMENT PLAN**
A-01 SCALE: 1:1000

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MICHAEL T. ANG, fuap
ARCHITECT

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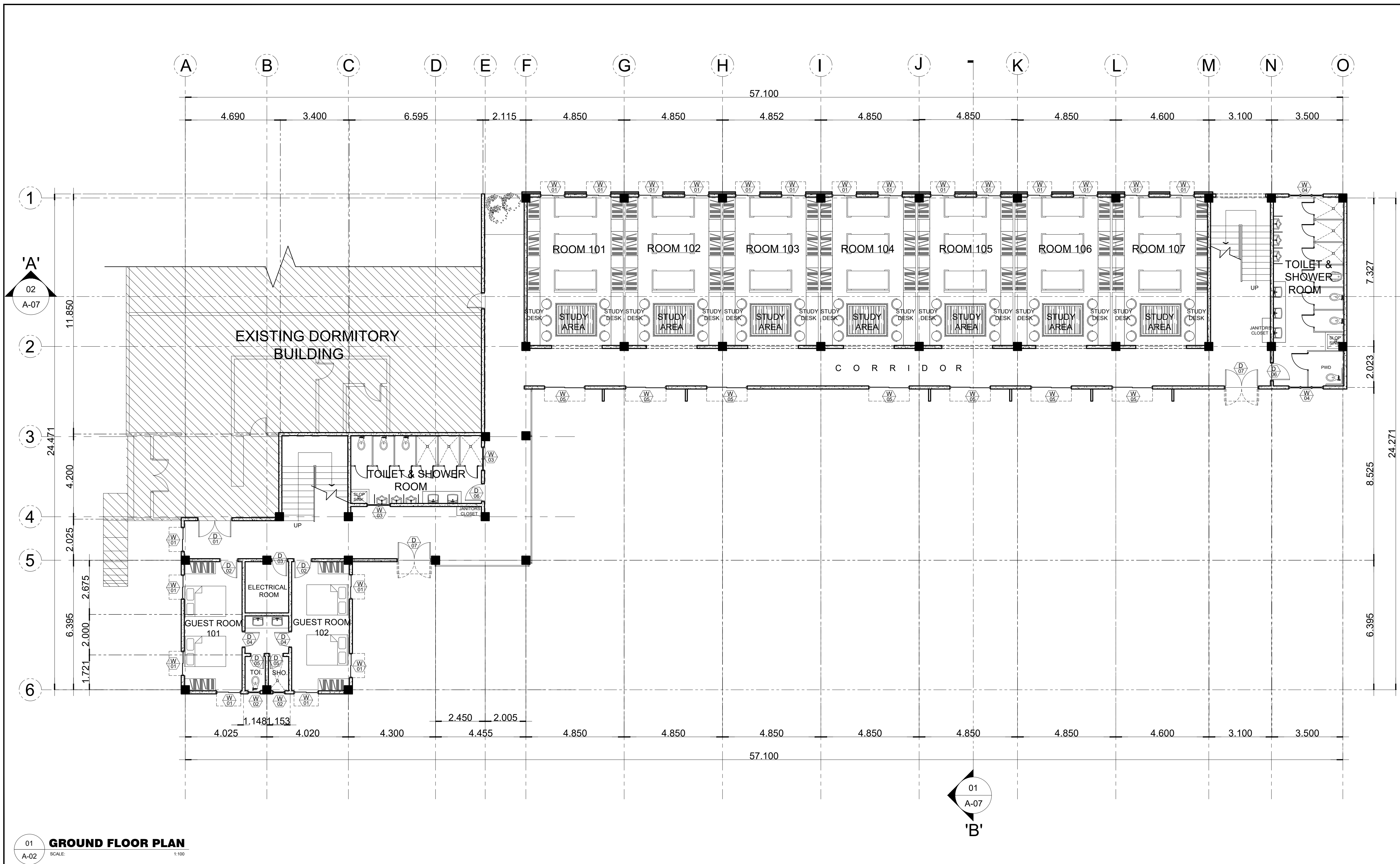
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PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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PREPARED BY:
ADRIAN M. YAMSON, uap
 JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 A-01
 01



01 **GROUND FLOOR PLAN**
A-02 SCALE: 1:100

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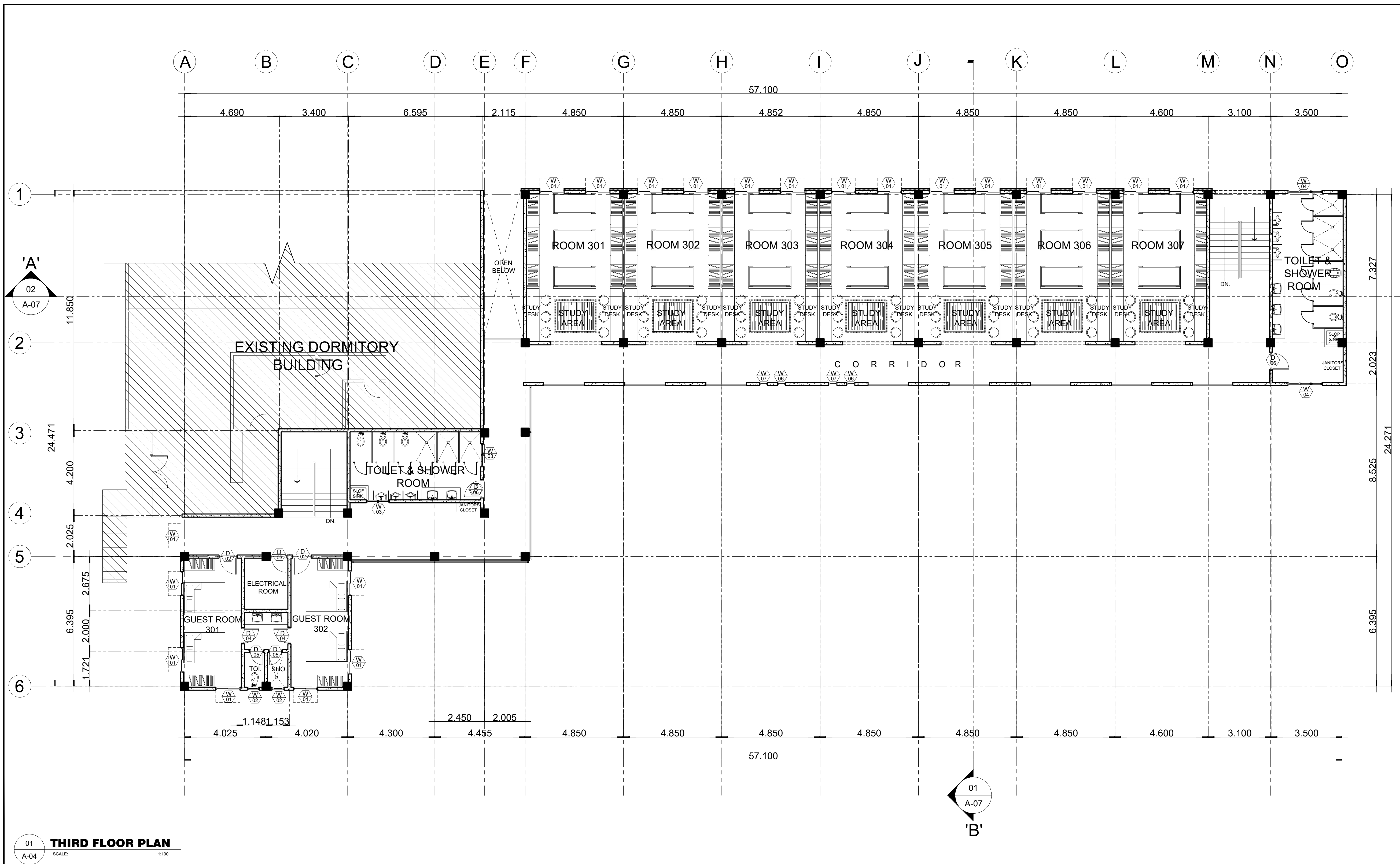
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RESIDENT ENGINEER

SHEET NO.
A-02
02



01 **THIRD FLOOR PLAN**
A-04 SCALE: 1:100

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MICHAEL T. ANG, fuap
ARCHITECT

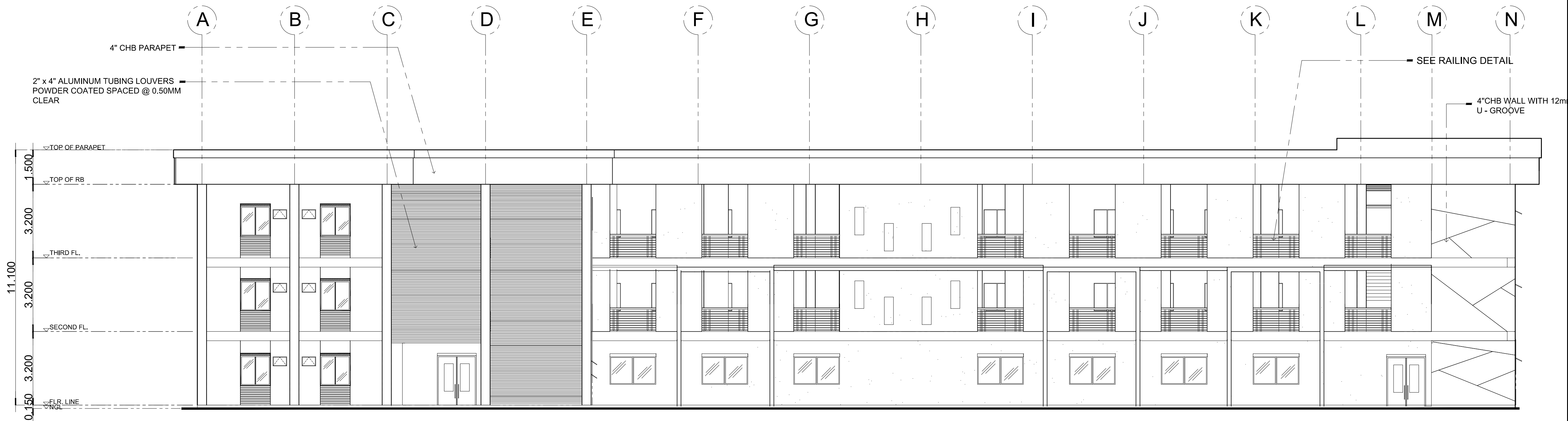
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PROJECT TITLE / LOCATION	APPROVED BY
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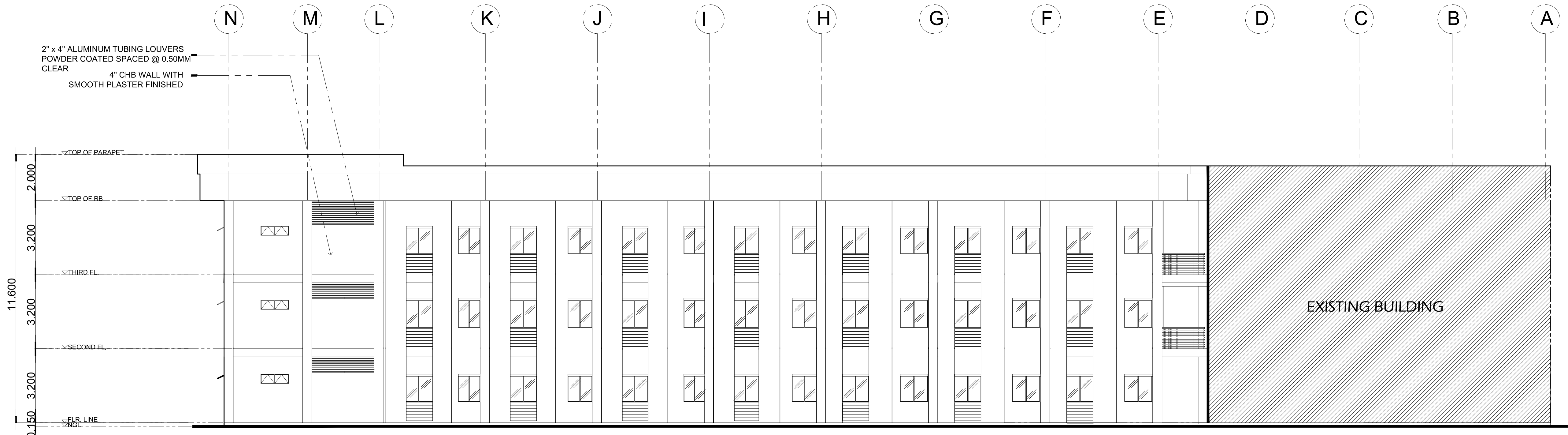
PREPARED BY:	ADRIAN M. YAMSON, uap JUNIOR ARCHITECT
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CHECKED BY:	ROSARIO P. LEONORA RESIDENT ENGINEER
SHEET NO.	A-04 04



01 **FRONT ELEVATION**
A-05 SCALE: 1:100



02 **REAR ELEVATION**
A-05 SCALE: 1:100

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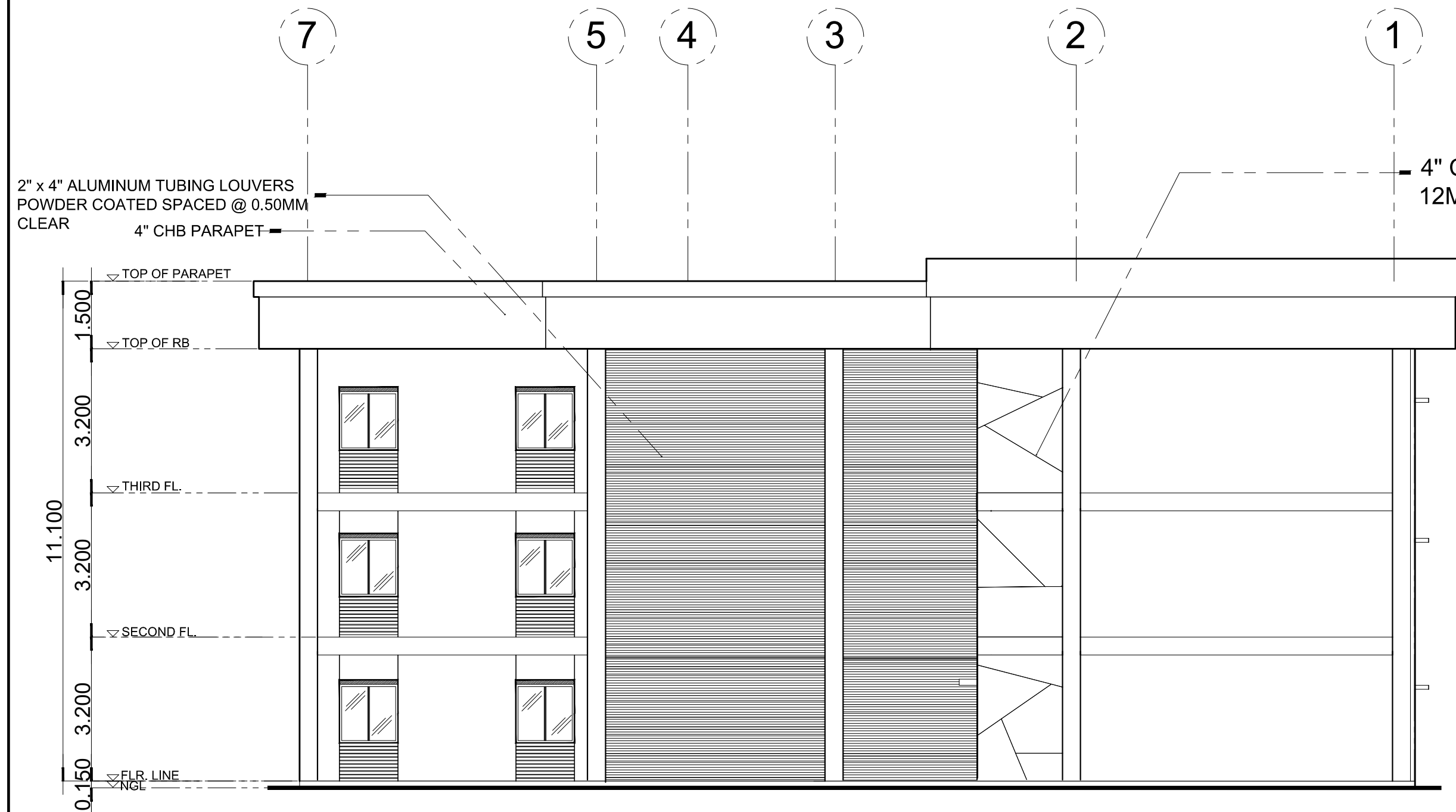
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PROPOSED DORMITORY BUILDING II	CHUCHI P. GARGANERA, PH. D.
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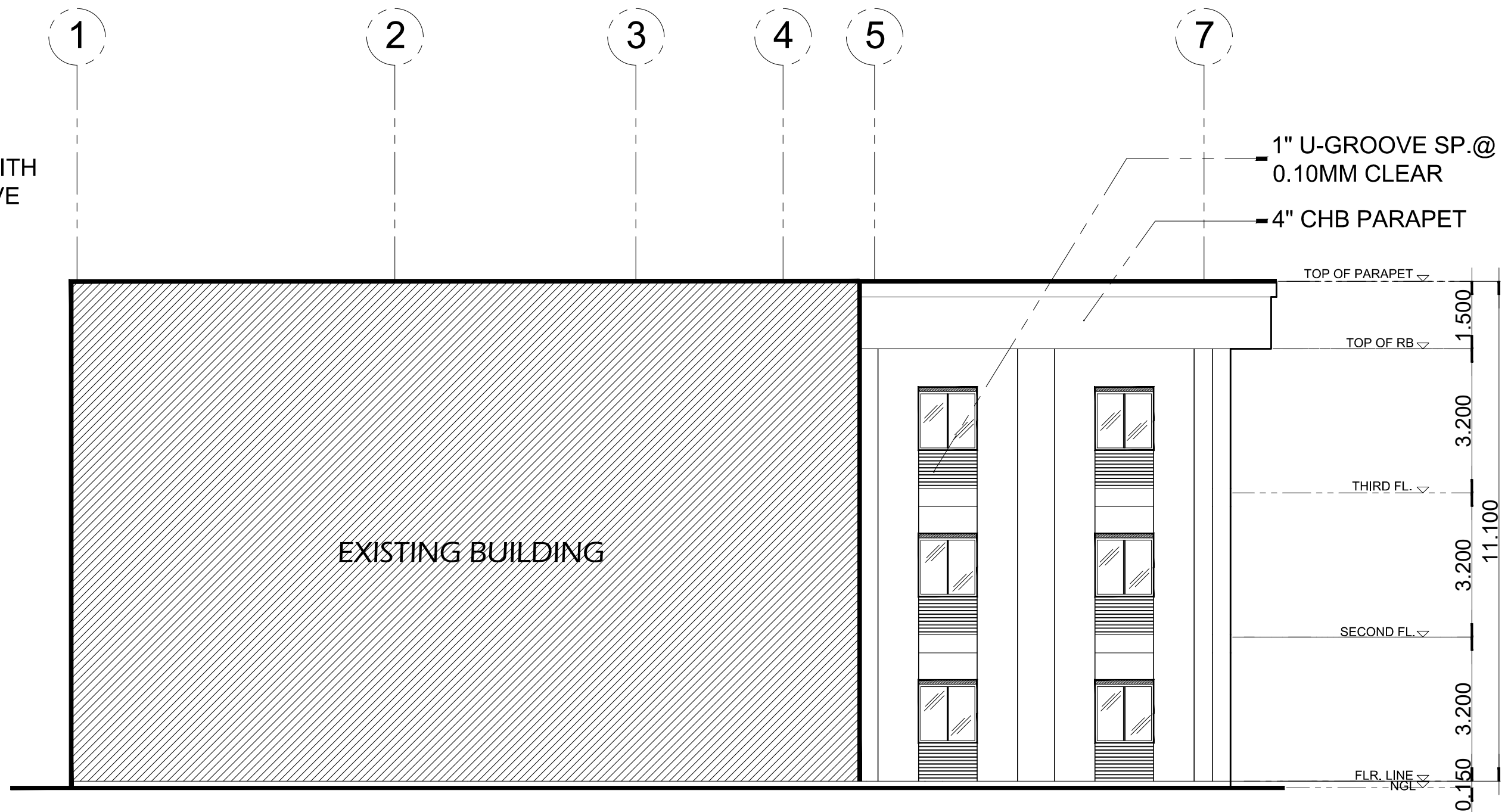
APPROVED BY	PREPARED BY:
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DIRECTOR III	JUNIOR ARCHITECT
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PREPARED BY:	SHEET NO.
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JUNIOR ARCHITECT	05
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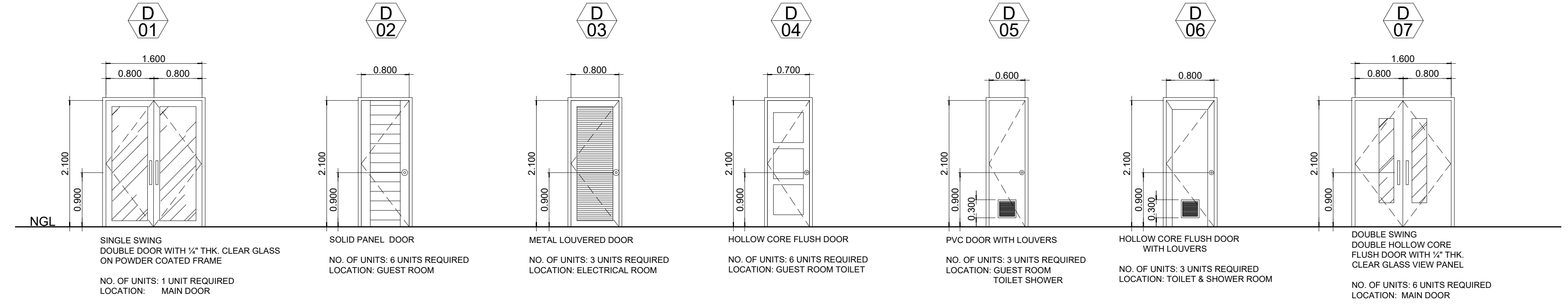


01 **RIGHT SIDE ELEVATION**
A-06 SCALE: 1:100

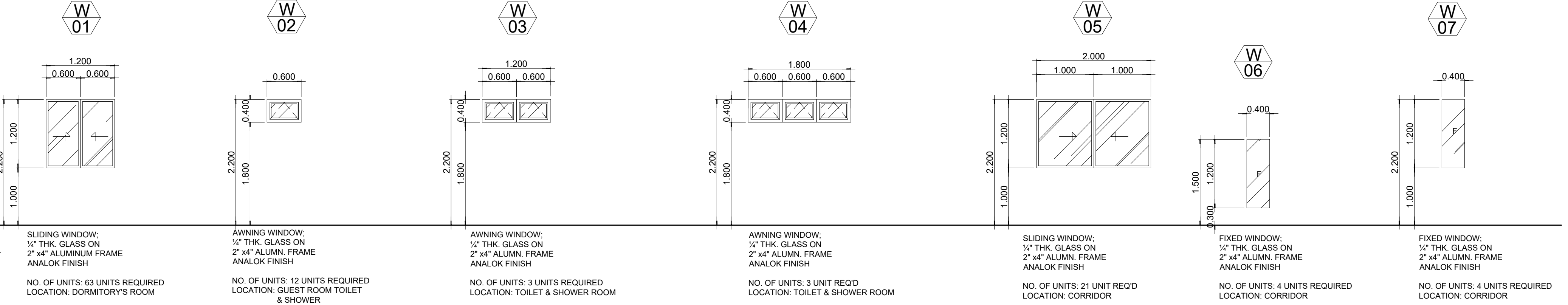


02 **LEFT SIDE ELEVATION**
A-06 SCALE: 1:100

03 **SCHEDULE OF DOORS**
A-06 SCALE: 1:50



04 **SCHEDULE OF WINDOWS**
A-06 SCALE: 1:50



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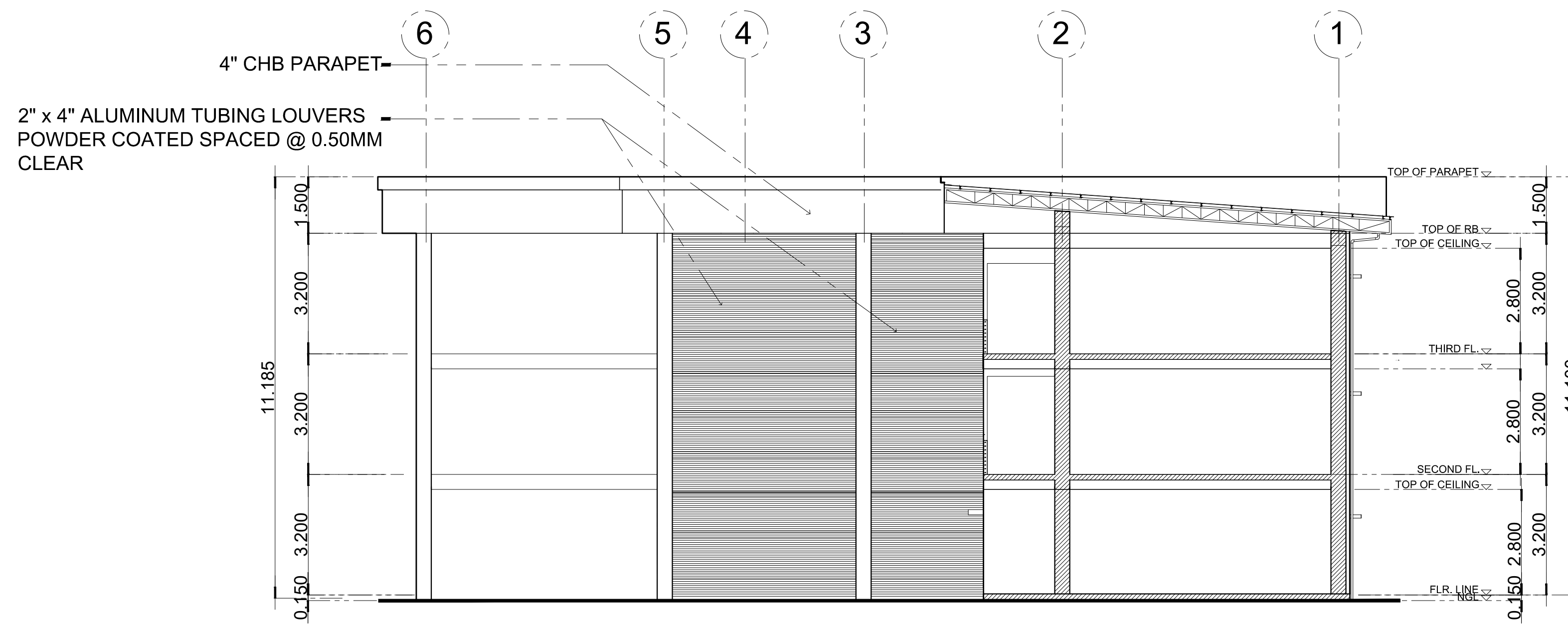
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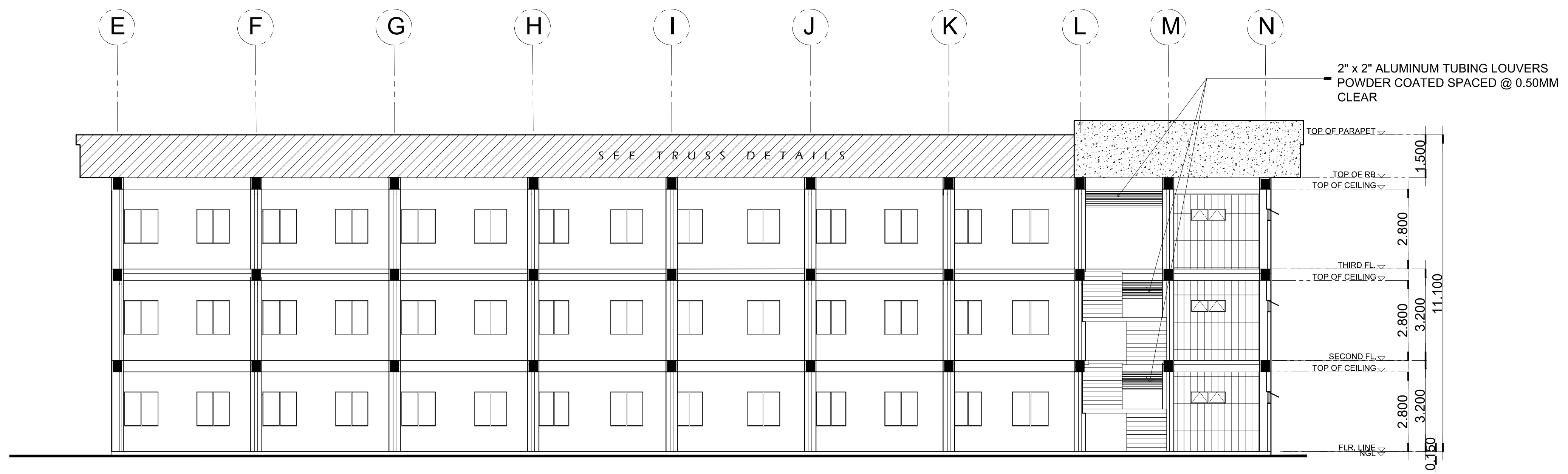
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SHEET NO.
A-06
06



01 **TRANSVERSE SECTION THRU 'A'**
 A-07 SCALE: 1:100



02 **LONGITUDINAL SECTION THRU 'B'**
 A-07 SCALE: 1:100

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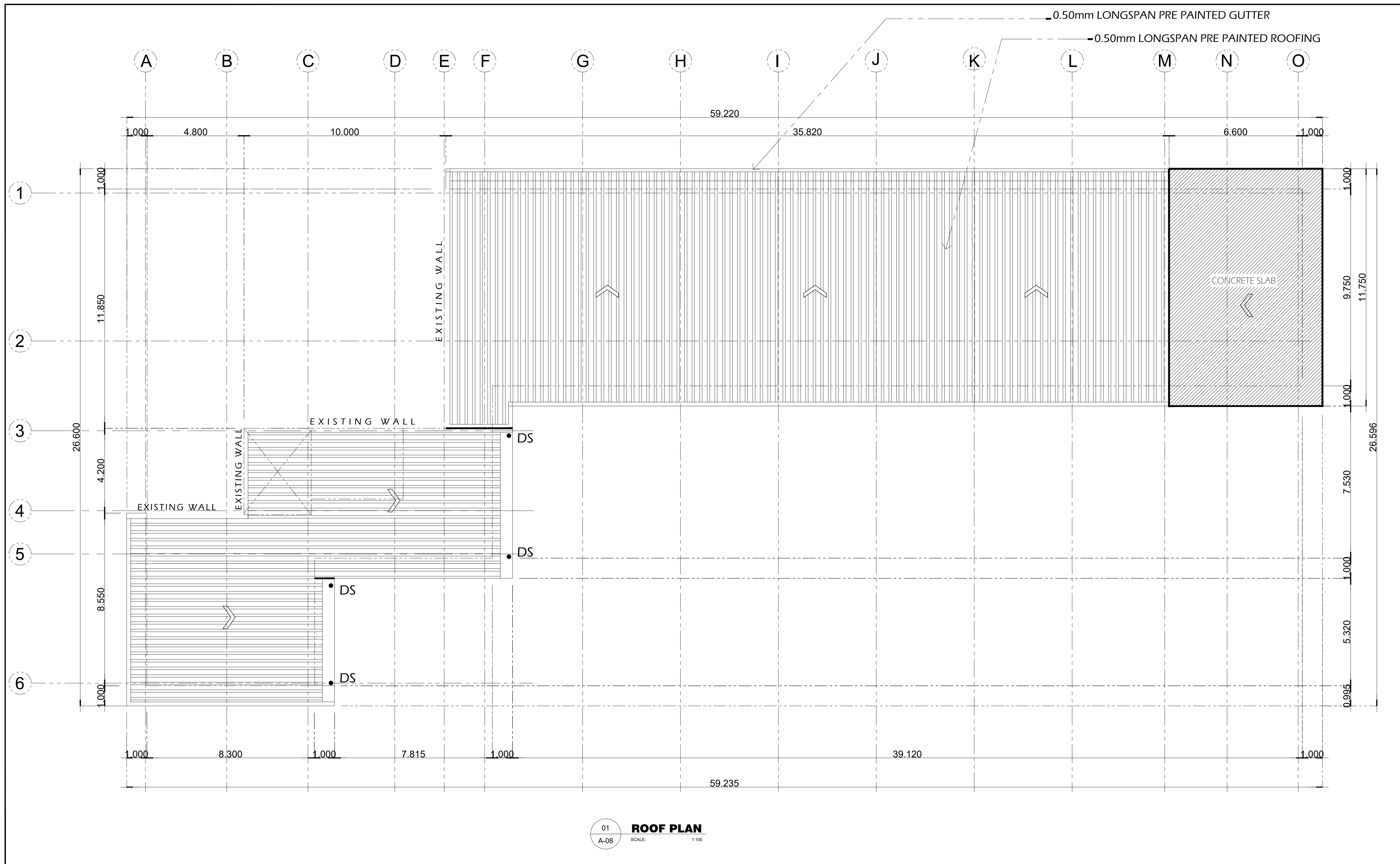
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ROSARIO P. LEONORA
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SHEET NO.

A-07
07



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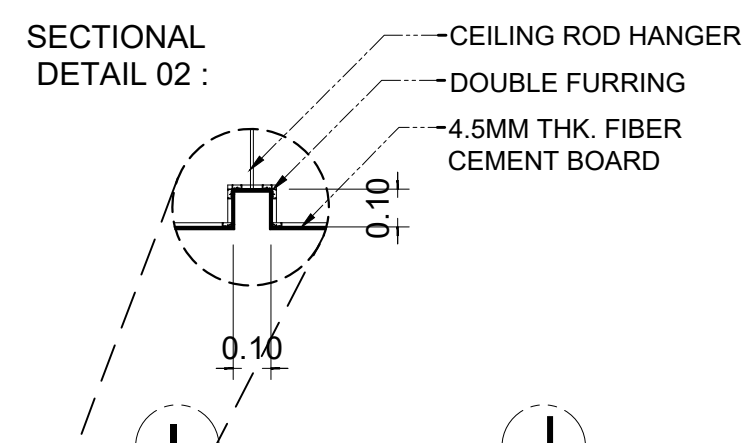
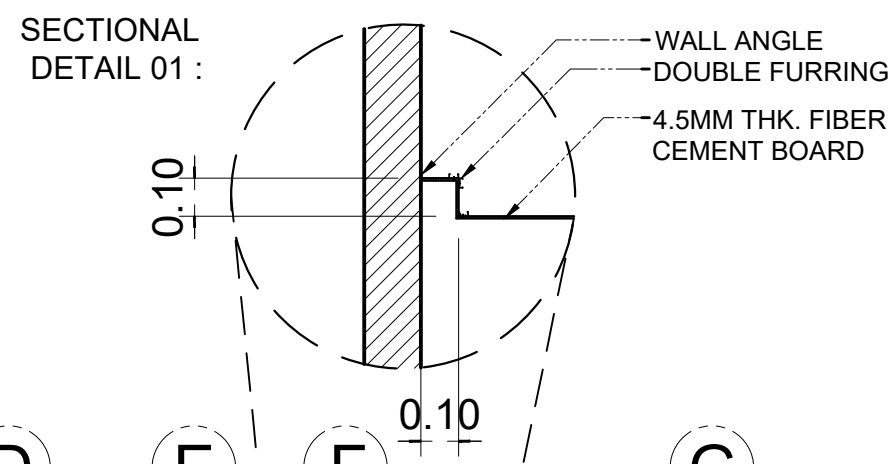
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DIRECTOR III
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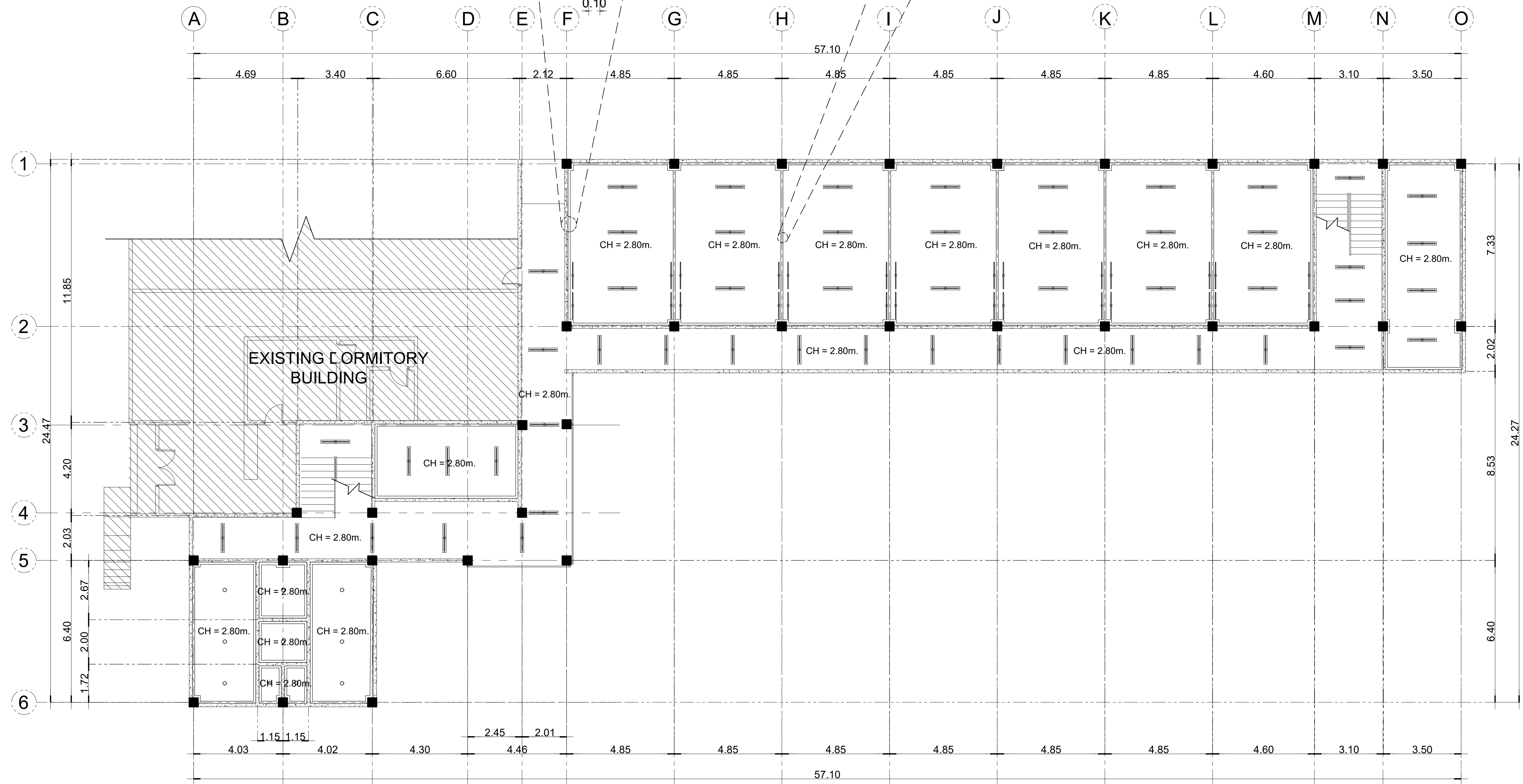
PREPARED BY:
ADRIAN M. YAMSON, uap
JUNIOR ARCHITECT
CHECKED BY :
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.
A-08
08



LEGEND:

	1 x 18w PINLIGHT		LOUVERED CEILING VENT
	1-40w FLUORESCENT LAMP		PVC SOFFITS
	T-5 LIGHT COVE LIGHT		



01 **GROUND FLOOR REFLECTED CEILING PLAN**
A-09 SCALE: 1:100

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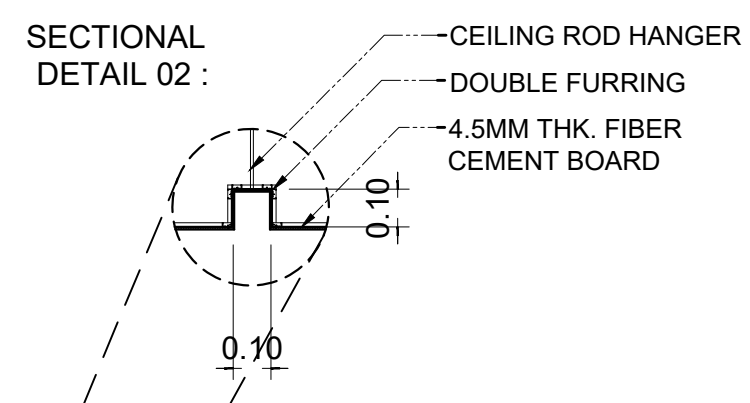
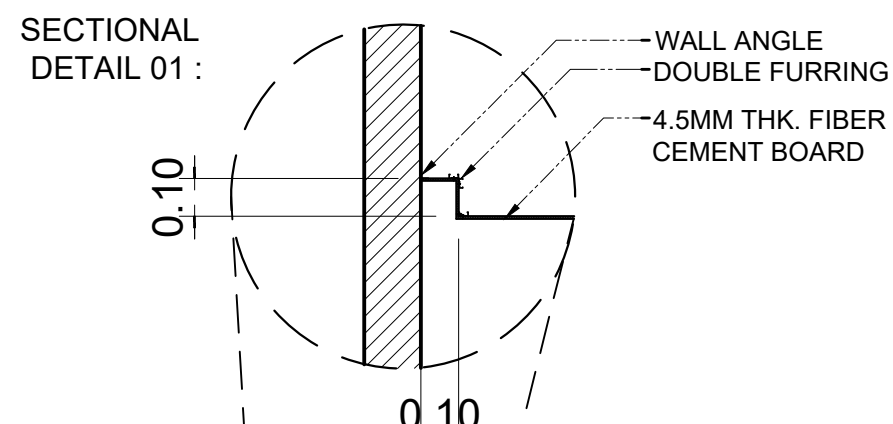
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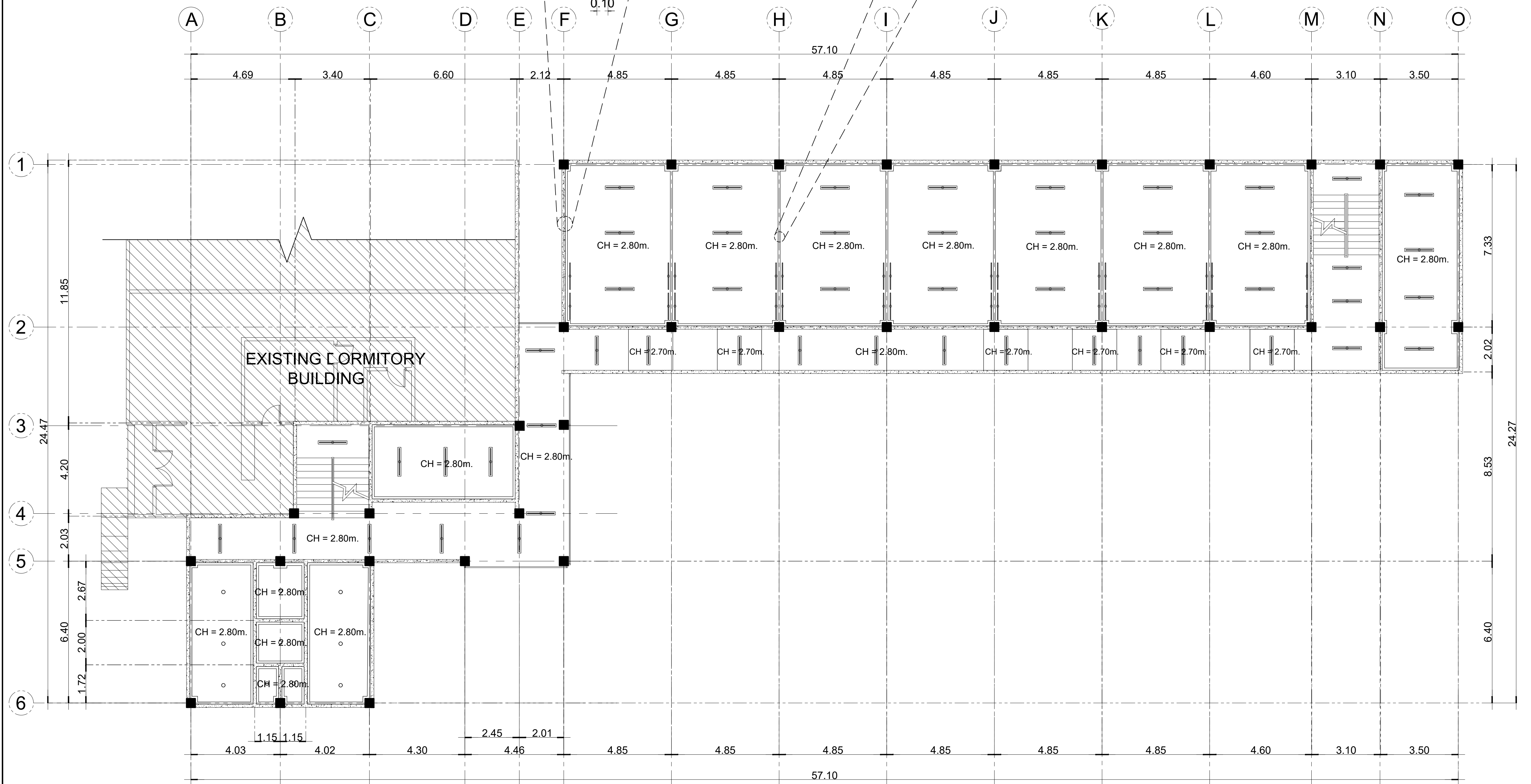
PREPARED BY:
ADRIAN M. YAMSON, uap
JUNIOR ARCHITECT
CHECKED BY :
Eng. ROSE
RESIDENT ENGINEER

SHEET NO.
A-09
09



LEGEND:

	1 x 18w PINLIGHT		LOUVERED CEILING VENT
	1-40w FLUORESCENT LAMP		PVC SOFFITS
	T-5 LIGHT COVE LIGHT		



01 **SECOND FLOOR REFLECTED CEILING PLAN**
 A-10 SCALE: 1:100

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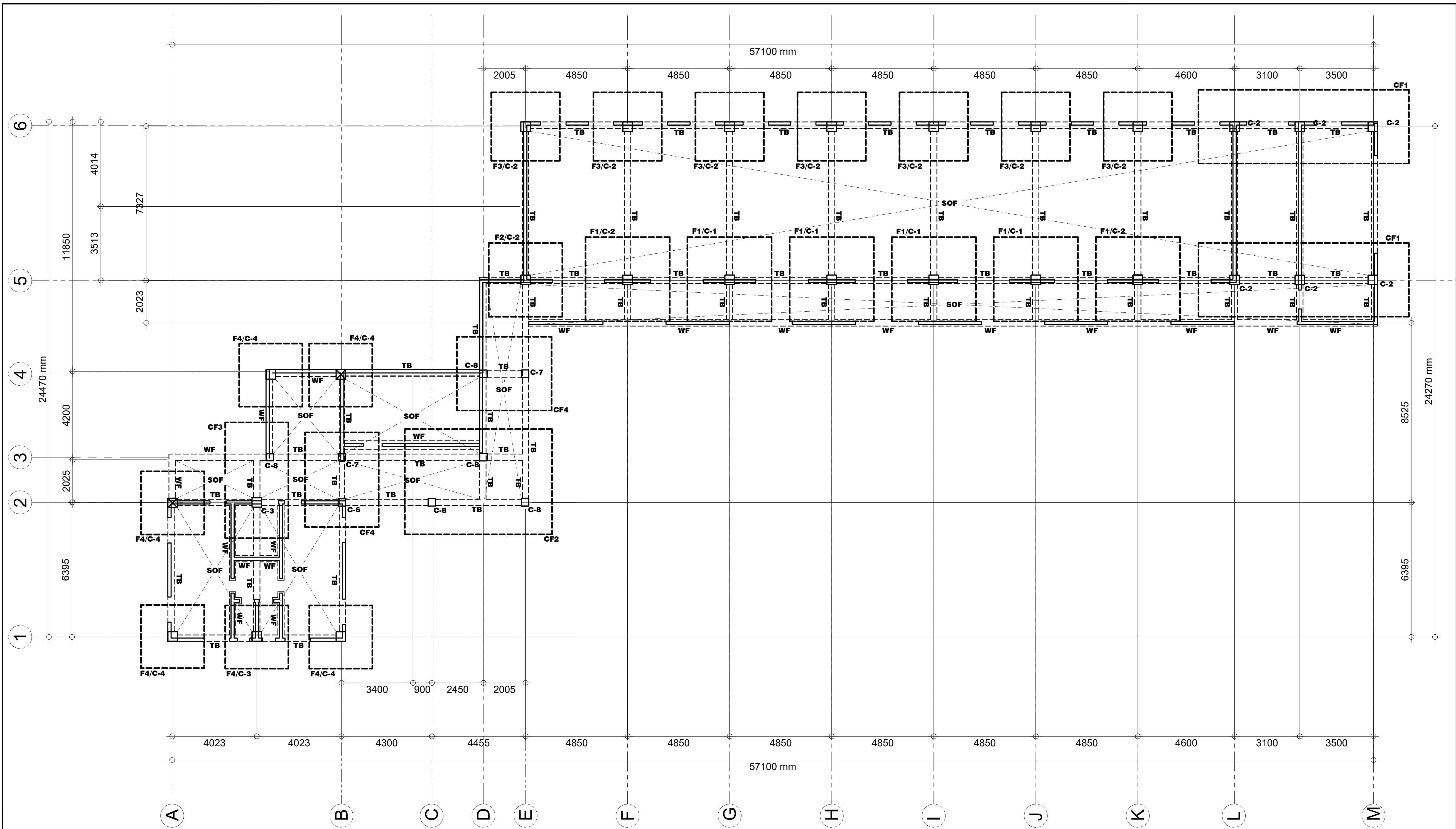
ADRIAN M. YAMSON, uap
 JUNIOR ARCHITECT

CHECKED BY:

Eng. ROSE
 RESIDENT ENGINEER

SHEET NO.

A-10
10



01 **FOUNDATION PLAN**
 S-01 SCALE: 1:100

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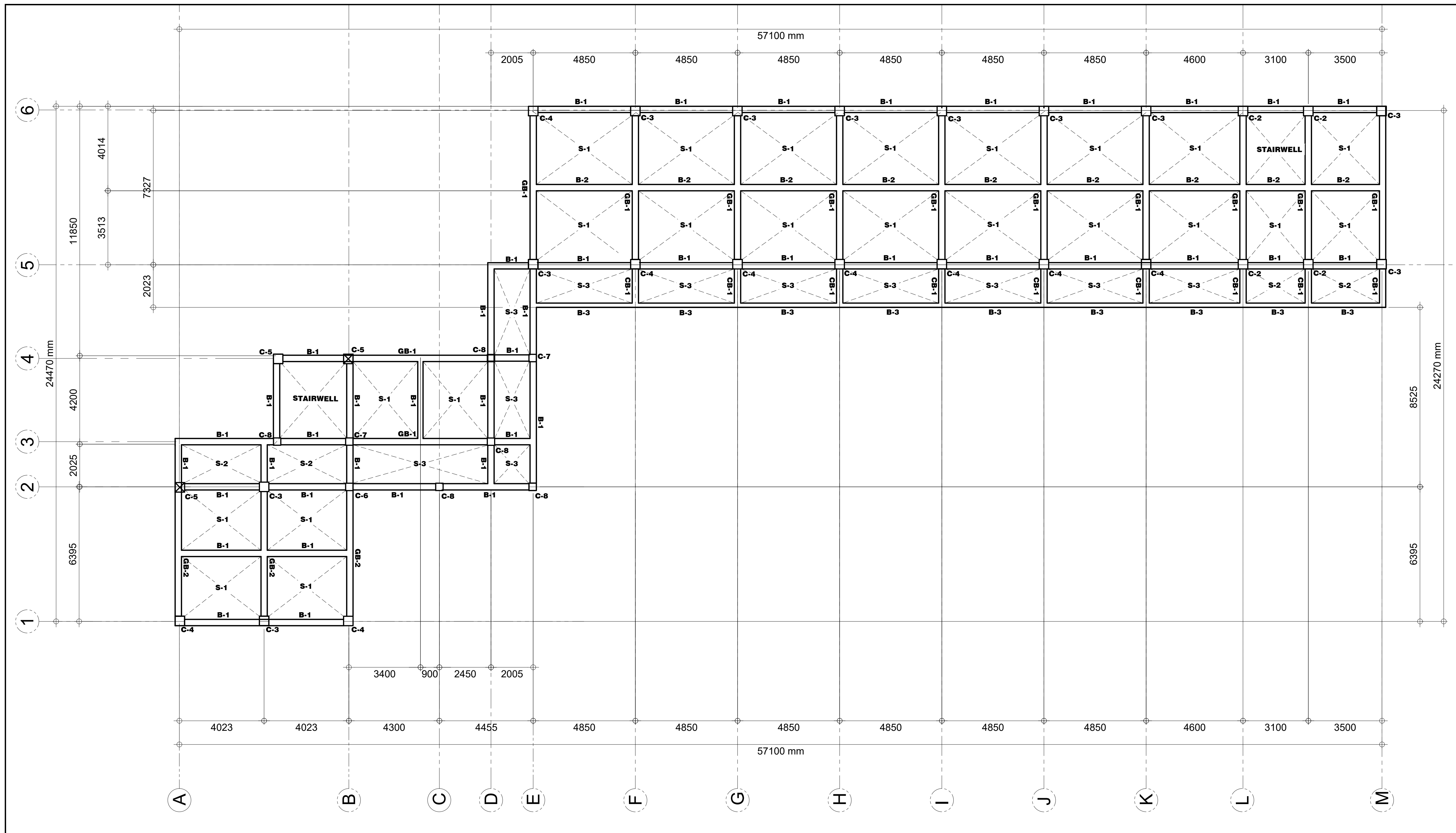
JAMES P. PACIS, PICE, ASEP
 CIVIL/STRUCTURAL ENGINEER
 PRC: 52853 ASEP: 52853-111
 PTR No.: 6601121 DATE: 01/07/16
 ISS. AT: G.S.C. TIN No.: 102-900-886

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
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 2222
 CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 S-01



01 **SECOND FLOOR FRAMING PLAN**
 S-02 SCALE: 1:100

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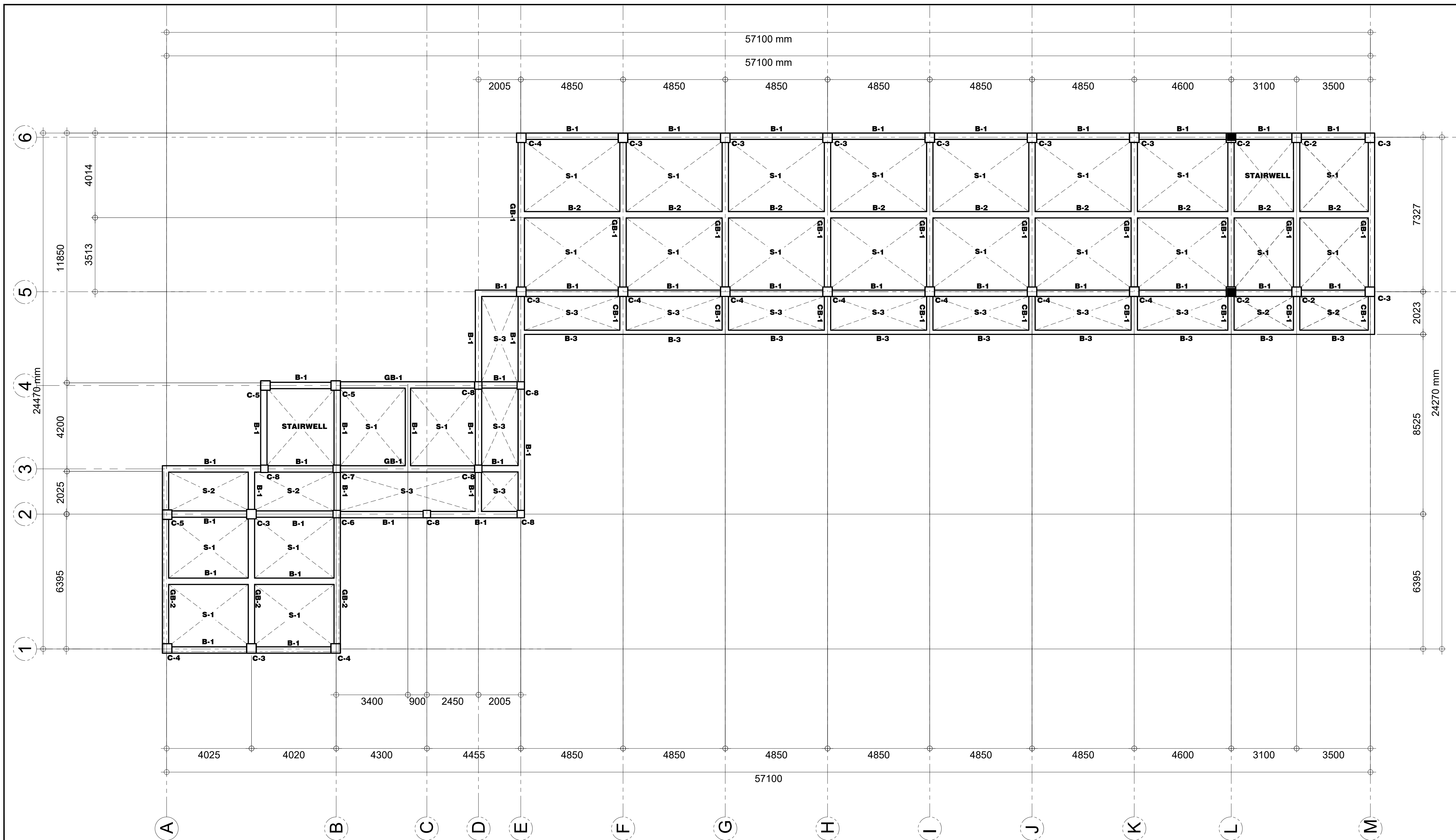
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 2222
 CHECKED BY:
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SHEET NO.
 S-02



01 **THIRD FLOOR FRAMING PLAN**
 S-03 SCALE: 1:100

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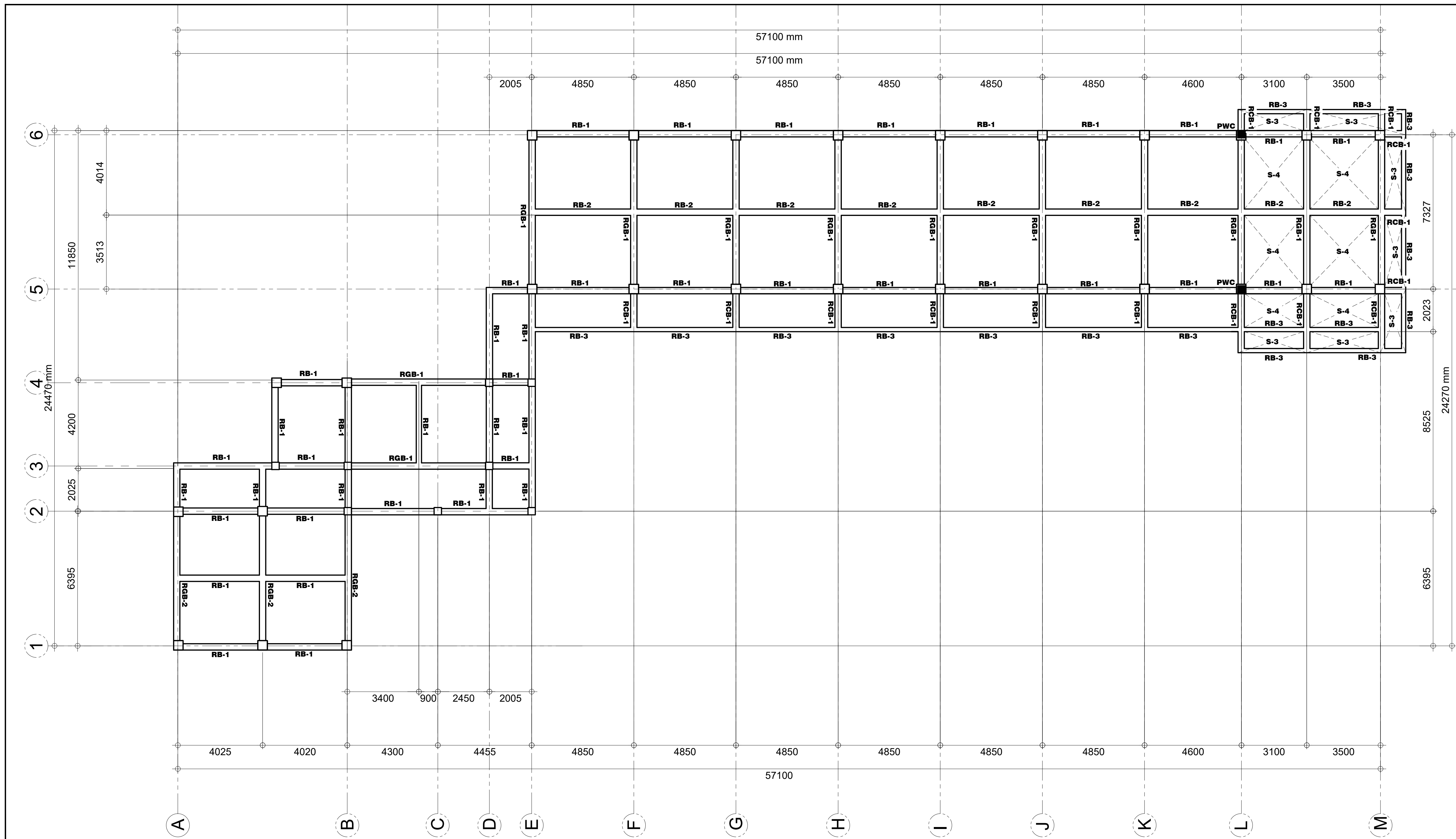
JAMES P. PACIS, PICE, ASEP
 CIVIL/STRUCTURAL ENGINEER
 PRC: 52853 ASEP: 52853-111
 PTR No.: 6601121 DATE: 01/07/16
 ISS. AT: G.S.C. TIN No.: 102-900-886

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY: 1111 2222
 CHECKED BY: **ROSARIO P. LEONORA**
 RESIDENT ENGINEER

SHEET NO.
 S-03



01 **ROOF BEAM FRAMING PLAN**
 S-04 SCALE: 1:100

M.T. Ang
 architectural designs
 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
 ARCHITECT

PRC:	8270
VALIDITY	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE	141342 16JULY15
PTR	6600933
DATE ISS.	05 JAN 2016
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PREPARED BY:
 1111
 2222
 CHECKED BY :
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 S-04



01 **ROOF FRAMING PLAN**
S-05 SCALE: 1:100

M.T. Ang
architectural designs
PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
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APPROVED BY
CHUCHI P. GARGANERA, PH. D.
DIRECTOR III
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
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ROSARIO P. LEONORA
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SHEET NO.
S-05

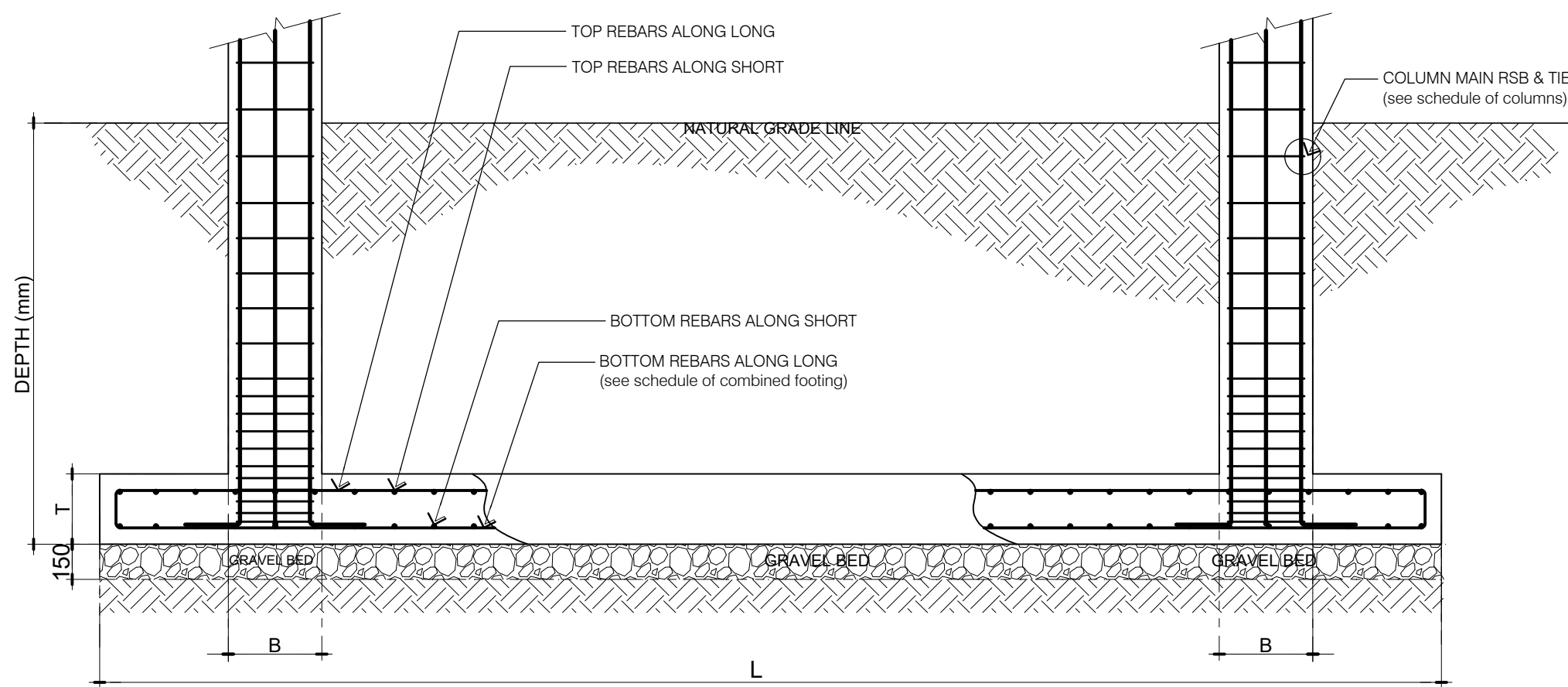
SCHEDULE OF COLUMNS							
"MARK"	DIMENSIONS (mm) & BAR ARRANGEMENT		REINFORCEMENTS		f _c (concrete)	f _y (steel bars)	
						main bars	stirrups
C-1			VERTICAL REBARS: 24 - 25MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø ALTERNATE				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-2			VERTICAL REBARS: 20 - 25MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø ALTERNATE				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-3			VERTICAL REBARS: 16 - 20MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø ALTERNATE				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-4			VERTICAL REBARS: 12 - 20MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø ALTERNATE				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					

SCHEDULE OF COLUMNS							
"MARK"	DIMENSIONS (mm) & BAR ARRANGEMENT		REINFORCEMENTS		f _c (concrete)	f _y (steel bars)	
						main bars	stirrups
C-5			VERTICAL REBARS: 8 - 20MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-6			VERTICAL REBARS: 16 - 20MM Ø	10MM Ø ALTERNATE	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-7			VERTICAL REBARS: 12 - 20MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø ALTERNATE				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					
C-8 PWC			VERTICAL REBARS: 8 - 20MM Ø	10MM Ø	4000 PSI OR 27.60 MPa	GRADE 60 OR 414 MPA	GRADE 33 OR 227 MPA
		MAIN LATERAL TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	10MM Ø				
		SECONDARY TIES: 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM					

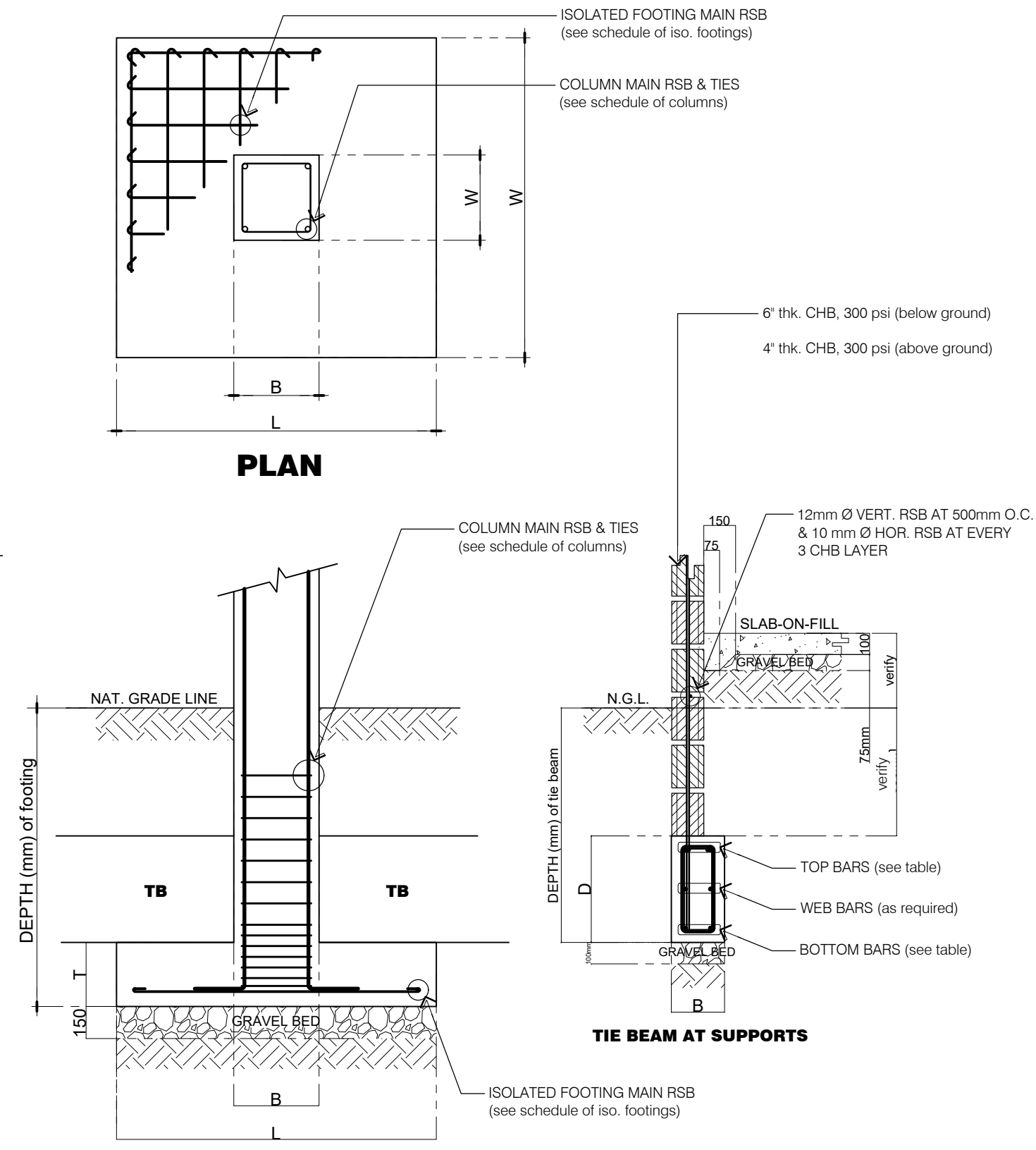
SCHEDULE OF TIE BEAM										
"MARK"	DIMENSION (mm)		LOCATION	REINFORCEMENTS			DEPTH	f _c (concrete)	f _y (steel rebars)	
	B	D		SUPPORTS	MID-SPAN	STIRRUPS			main rebars	stirrups
TB	350	500	TOP	2-16mm Ø CB	2-16mm Ø CB + 4-16mm Ø EB	10mm Ø: 5 @ 50mm, 10 @ 125mm, REST @ 150mm O.C.	(1000 mm) SEE TIE BEAM DETAIL	4000 psi or 27.60MPa	GRADE 60 or 414 MPa	GRADE 33 or 227 MPa
			BOTTOM	2-16mm Ø CB + 4-16mm Ø EB	2-16mm Ø CB					

SCHEDULE OF ISOLATED FOOTINGS							
"MARK"	DIMENSION (mm)			DEPTH (mm)	REINFORCEMENTS	f _c (concrete)	f _y (steel rebars)
	L	W	T				
F1	4000	4000	500	1500	20 - 16mm Ø BED BARS B.W.	4000 psi or 27.60 MPa	GRADE 60 or 414 MPa
F2	3500	3500	450	1500	18 - 16mm Ø BED BARS B.W.		
F3	3250	3250	450	1500	15 - 16mm Ø BED BARS B.W.		
F4	3000	3000	400	1500	15 - 16mm Ø BED BARS B.W.		

SCHEDULE OF COMBINED FOOTINGS									
"MARK"	DIMENSION (mm)			DEPTH (mm)	LOCATION	REINFORCEMENTS		f _c (concrete)	f _y (steel rebars)
	L	W	T			ALONG LONG	ALONG SHORT		
CF1	10000	3500	500	1500	TOP	20 - 16mm Ø CB	50 - 16mm Ø CB	4000 psi or 27.60 MPa	GRADE 60 or 414 MPa
					BOTTOM	24 - 16mm Ø CB	50 - 16mm Ø CB		
CF2	7000	5000	500	1500	TOP	26 - 16mm Ø CB	35 - 16mm Ø CB		
					BOTTOM	30 - 16mm Ø CB	35 - 16mm Ø CB		
CF3	5500	3000	450	1500	TOP	16 - 16mm Ø CB	30 - 16mm Ø CB		
					BOTTOM	20 - 16mm Ø CB	30 - 16mm Ø CB		
CF4	4500	3500	450	1500	TOP	18 - 16mm Ø CB	25 - 16mm Ø CB		
					BOTTOM	22 - 16mm Ø CB	25 - 16mm Ø CB		



01 TYPICAL COMBINED FOOTING DETAIL SCALE: NTS



02 TYPICAL ISOLATED FOOTING & TIE BEAM DETAILS SCALE: NTS

M.T. Ang architectural designs
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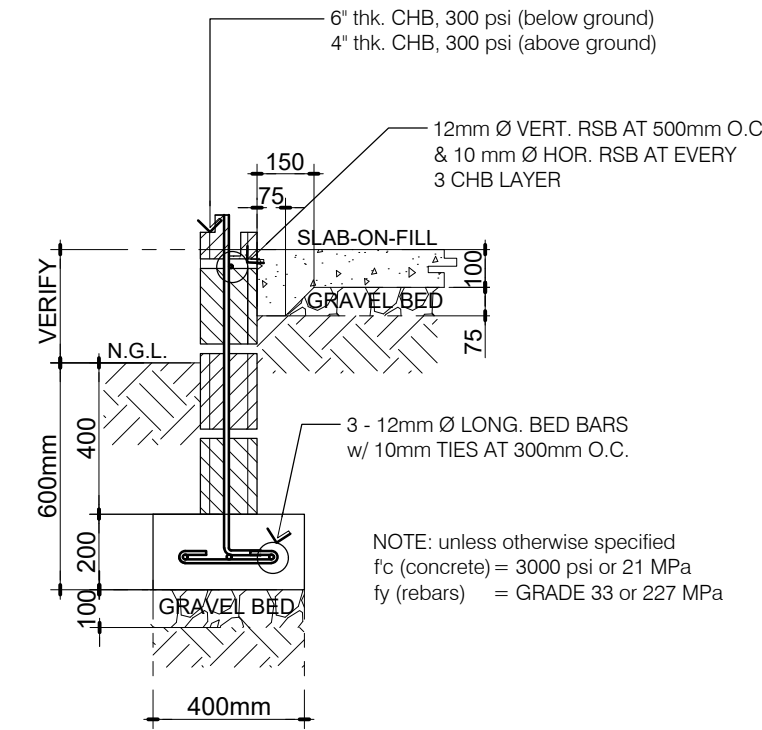
JAMES P. PACIS, PICE, ASEP
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 PTR No.: 6601121 DATE: 01/07/16
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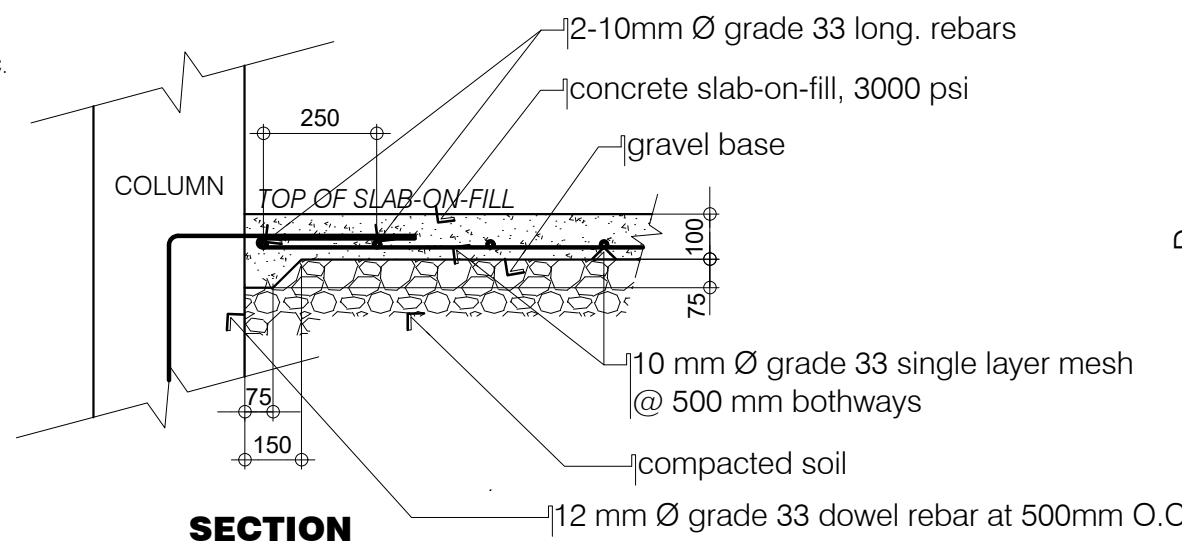
APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
 1111 2222
 CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

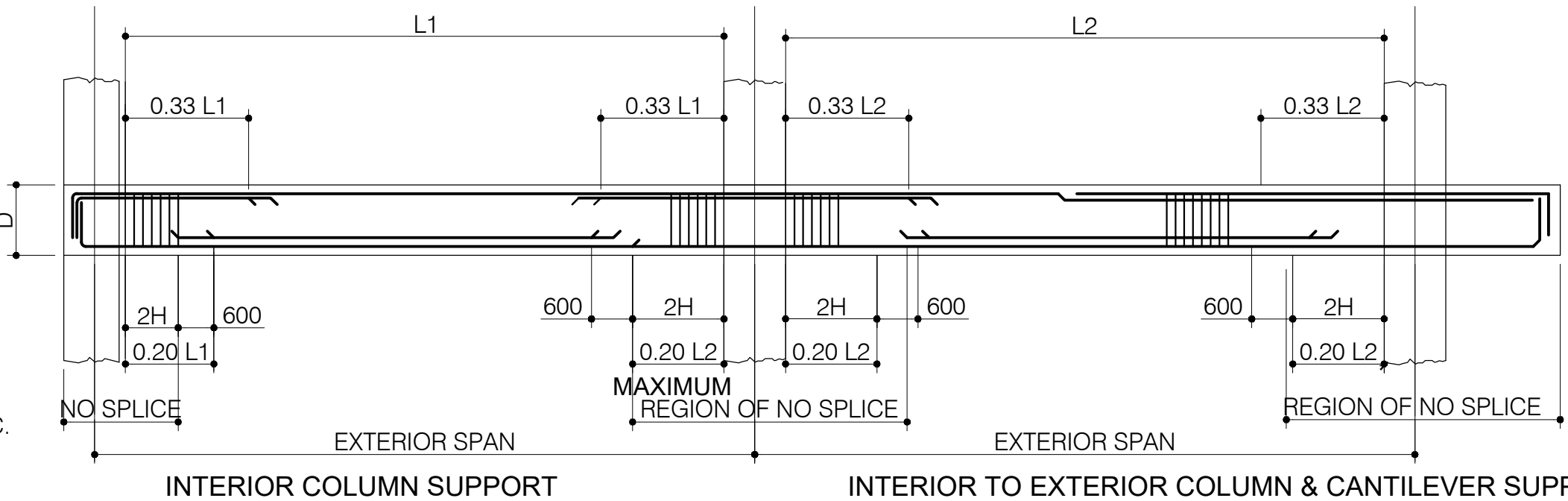
SHEET NO.
 S-06



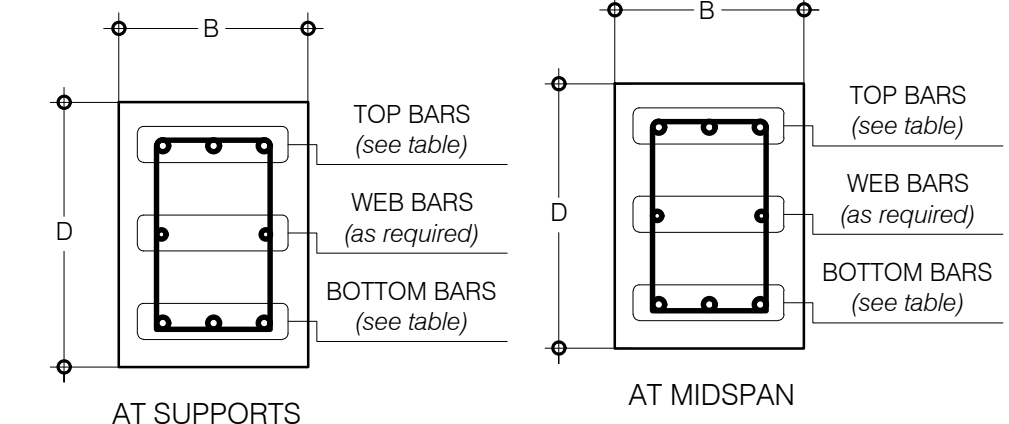
01 WALL FOOTING DETAIL
SCALE: 1/20



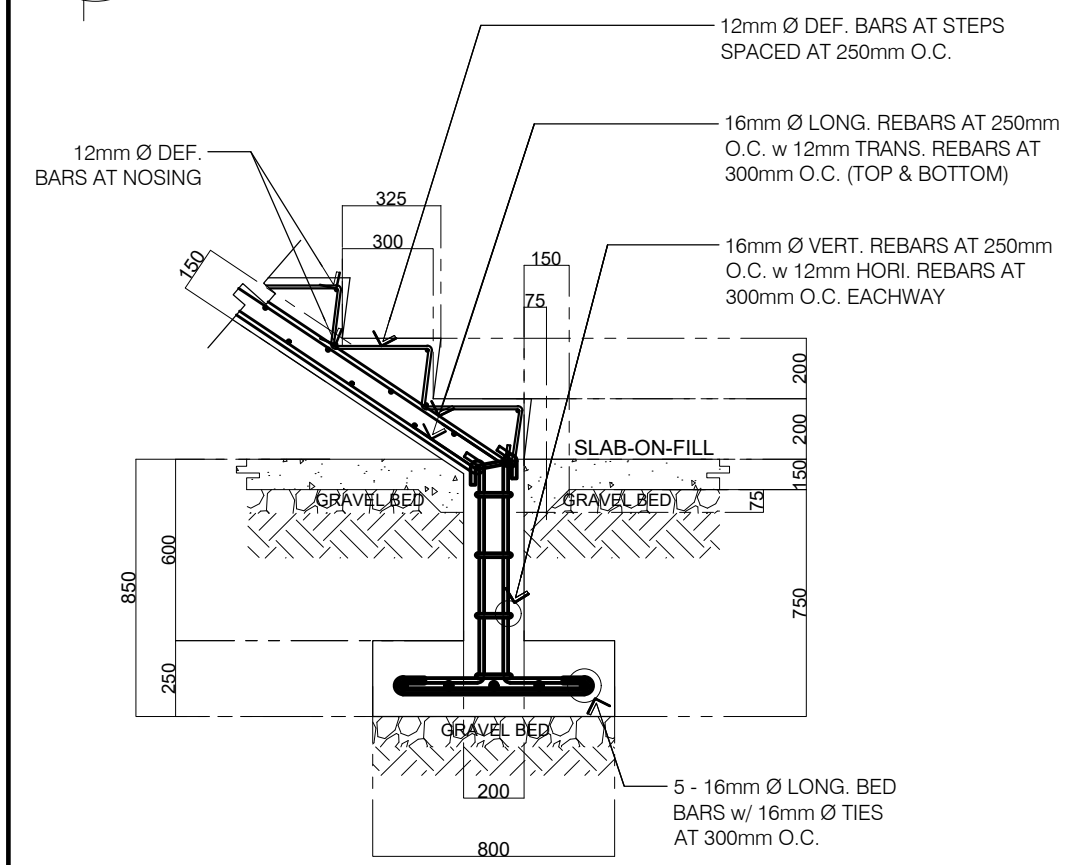
03 SLAB-ON-FILL DETAIL
SCALE: NTS



04 TYPICAL LONGITUDINAL BEAM SECTION DETAIL
SCALE: NTS

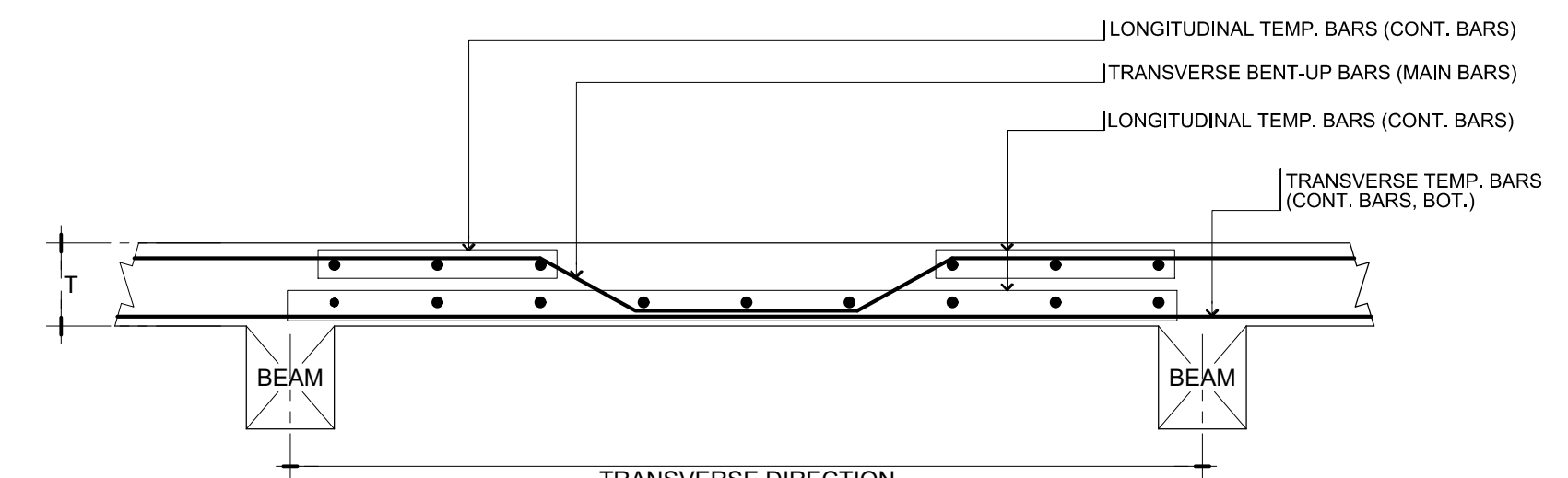


05 TYPICAL BEAM SECTION DETAIL
SCALE: NTS



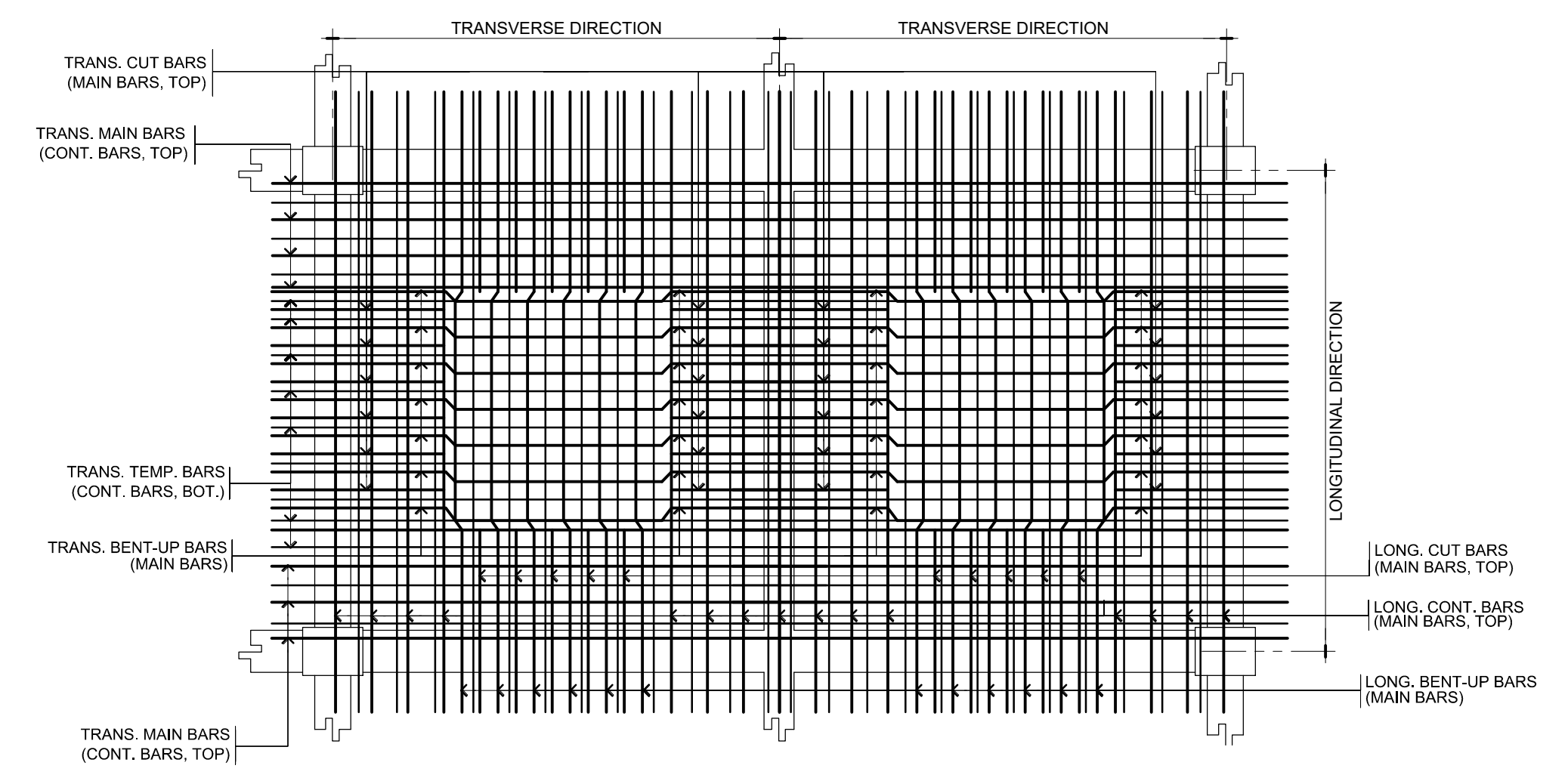
02 TYPICAL STAIR FOOTING DETAIL
SCALE: 1/25

SCHEDULE OF BEAMS & GIRDERS									
BEAM "MARK"	DIMENSION (mm)		LOCATION	REINFORCEMENTS			f _c (concrete)	f _y (steel bars)	
	B	D		SUPPORTS	MID-SPAN	STIRRUPS		main bars	stirrups
GB-1 / RGB-1	300	450	TOP	4-25mm Ø CB + 4-25mm Ø EB	4-25mm Ø CB	10mm Ø STIRRUPS: 5 @ 50mm, 5 @ 75mm, 10 @ 100mm, REST @ 150mm O.C.	4000 psi or 27.60 MPa	GRADE 60 or 414 MPa	GRADE 33 or 227 MPa
			BOTTOM	4-25mm Ø CB	4-25mm Ø CB + 4-25mm Ø EB				
GB-2 / RGB-2	300	400	TOP	2-25mm Ø CB + 3-25mm Ø EB	2-25mm Ø CB				
			BOTTOM	2-25mm Ø CB	2-25mm Ø CB + 3-25mm Ø EB				
CB-1 / RCB-1	250	350	TOP	5-25mm Ø CB	CANTILEVER BEAM				
			BOTTOM	2-25mm Ø CB					
B-1 / RB-1	250	350	TOP	2-20mm Ø CB + 4-20mm Ø EB	2-20mm Ø CB				
			BOTTOM	2-20mm Ø CB	2-20mm Ø CB + 4-20mm Ø EB				
B-2 / RB-2	250	350	TOP	2-16mm Ø CB + 1-16mm Ø EB	2-16mm Ø CB				
			BOTTOM	2-16mm Ø CB	2-16mm Ø CB + 1-16mm Ø EB				
B-3 / RB-3	160	350	TOP	2-16mm Ø CB + 1-16mm Ø EB	2-16mm Ø CB				
			BOTTOM	2-16mm Ø CB	2-16mm Ø CB + 1-16mm Ø EB				



06 TYPICAL ONE-WAY SLAB DETAIL
SCALE: NTS

SCHEDULE OF SUSPENDED SLABS							
"MARK"	T (mm)	LOCATION	REINFORCEMENTS		REMARKS	f _c (concrete)	f _y (steel rebars)
			ALONG TRANSVERSE DIRECTION	ALONG LONGITUDINAL DIRECTION			
S-1	120	MAIN BARS	10mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	10mm Ø BENT-UP BARS AT 400mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	TWO-WAY SLAB	4000 psi or 27.60 MPa	GRADE 60 or 414 MPa
		TEMP. BARS	10mm Ø CONT. BARS AT 300mm O.C. (BOTTOM)	10mm Ø CONT. BARS AT 400mm O.C. (BOTTOM)			
S-2	120	MAIN BARS	10mm Ø BENT-UP BARS AT 400mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	10mm Ø BENT-UP BARS AT 400mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	TWO-WAY SLAB		
		TEMP. BARS	10mm Ø CONT. BARS AT 400mm O.C. (BOTTOM)	10mm Ø CONT. BARS AT 400mm O.C. (BOTTOM)			
S-3	175	MAIN BARS	10mm Ø BENT-UP BARS AT 200mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	---	ONE-WAY SLAB		
		TEMP. BARS	10mm Ø CONT. BARS AT 200mm O.C. (BOTTOM)	10mm Ø CONT. BARS AT 200mm O.C. (TOP & BOTTOM)			
S-4	130	MAIN BARS	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	12mm Ø BENT-UP BARS AT 400mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	TWO-WAY SLAB		
		TEMP. BARS	10mm Ø CONT. BARS AT 300mm O.C. (BOTTOM)	10mm Ø CONT. BARS AT 400mm O.C. (BOTTOM)			



07 TYPICAL TWO-WAY SLAB DETAIL
SCALE: NTS

M.T. Ang architectural designs

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APPROVED BY
CHUCHI P. GARGANERA, PH. D.
DIRECTOR III
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY: **1111 2222**
CHECKED BY: **ROSARIO P. LEONORA**
RESIDENT ENGINEER

SHEET NO.
S-07

CONSTRUCTION NOTES:

A. GENERAL

1. CONSTRUCTION NOTES AND 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 AND PLACING DIAGRAMS 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 AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC TO BE EMBEDDED IN CONCRETE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENTS

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF THE PHILS. AND BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
2. ALL CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH AT THE END OF TWENTY-EIGHT (28) DAYS, SUCH AS FOLLOW:

FOUNDATION.....	4000 psi (27.60 MPa)
COLUMNS & SHEARWALL.....	4000 psi (27.60 MPa)
BEAMS, CORBEL & SLABS.....	4000 psi (27.60 MPa)
STAIR STEPS.....	4000 psi (27.60 MPa)
CONCRETE GUTTER.....	3500 psi (24.00 MPa)
SLABS-ON-GRADE/FILL, WALL FOOTINGS & CURBS.....	3000 psi (21.00 MPa)

3. ALL REINFORCING BARS SHALL CONFORM TO THE ASTM A615 (PNS 49) AS FOLLOW:

FOUNDATION.....	GRADE 60 (414 MPa)
COLUMNS & SHEARWALL.....	GRADE 60 (414 MPa)
A. COLUMN STIRRUPS.....	GRADE 33 (227 MPa)
BEAMS, CORBEL & SLABS.....	GRADE 60 (414 MPa)
A. BEAM STIRRUPS.....	GRADE 33 (227 MPa)
STAIR STEPS.....	GRADE 40 (275 MPa)
CONCRETE GUTTER.....	GRADE 40 (275 MPa)
SLABS-ON-GRADE/FILL, WALL FOOTINGS & CURBS.....	GRADE 33 (227 MPa)

4. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL BARS AS FOLLOWS:

SUSPENDED SLABS.....	3/4" (20mm)
SLAB-ON- FILL.....	1 1/2" (40mm)
WALLS ABOVE GRADE & SHEARWALL.....	1" (25mm)
COLUMN & BEAMS STIRRUPS.....	1 1/2" (40mm)
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS.....	2" (50mm)
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH.....	2" (75mm)

5. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH THE ALLOWABLE LAP SPLICES AND ANCHORAGE LENGTH, UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICE SHALL BE STAGGERED WHENEVER POSSIBLE.

6. ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

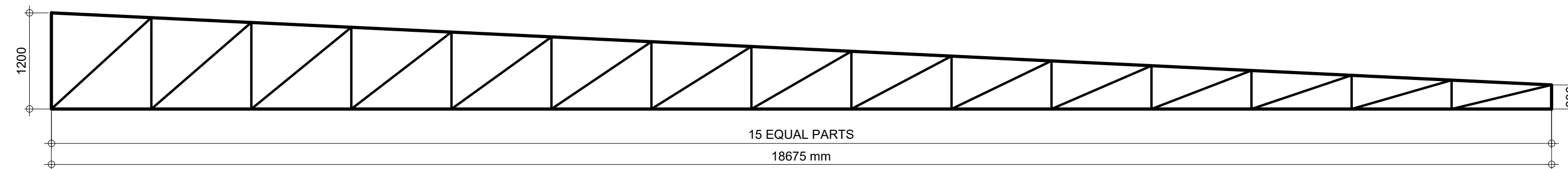
7. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOG SPRAYING, CURING COMPOUND OR OTHER ANY APPROVED METHODS.

8. STRIPPING OF FORMS AND SHORES SHALL BE:

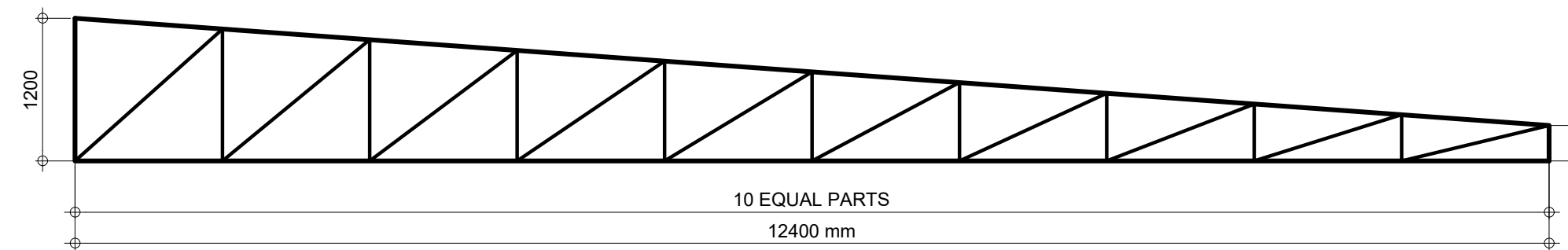
FOUNDATION.....	24 HOURS
SUSPENDED SLABS EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED.....	8 DAYS
WALLS.....	18 HOURS
BEAMS & COLUMNS.....	14 DAYS

C. FOUNDATION

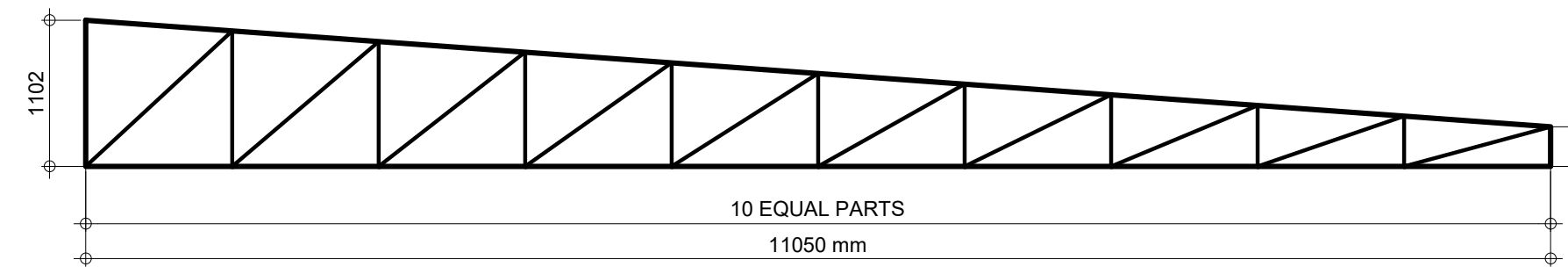
1. FOUNDATION IS DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 110.0 kPa.
2. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE STRUCTURAL ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.



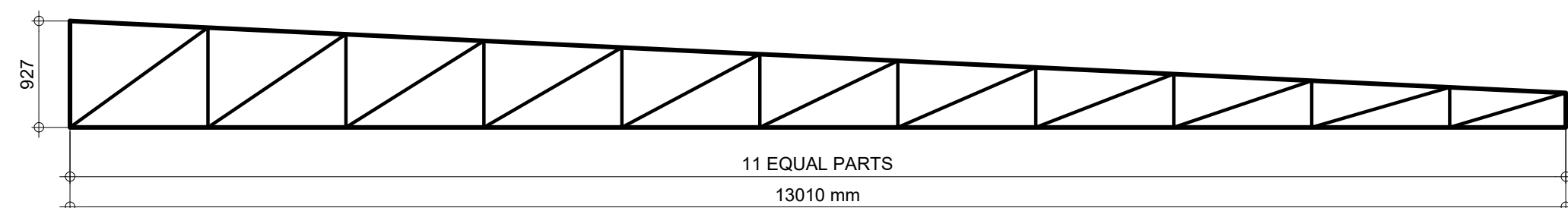
01 HT-01 DETAIL
SCALE: 1:50



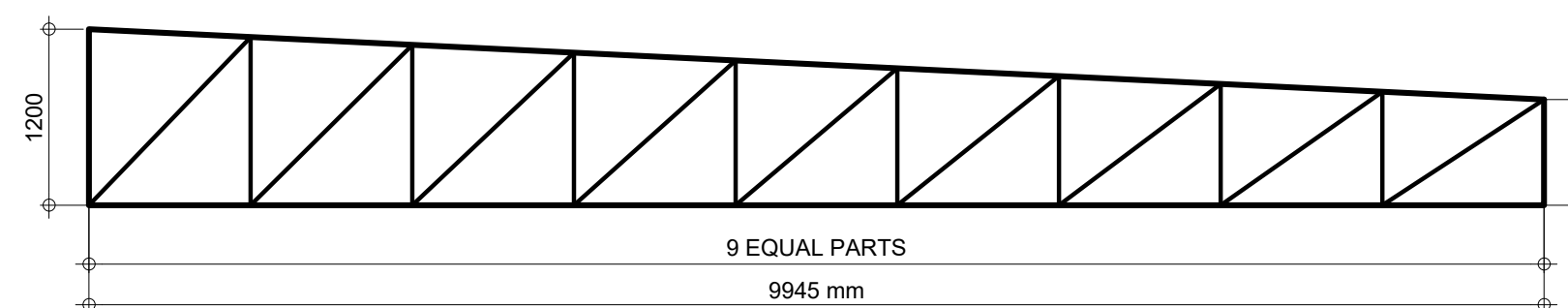
02 HT-02 DETAIL
SCALE: 1:50



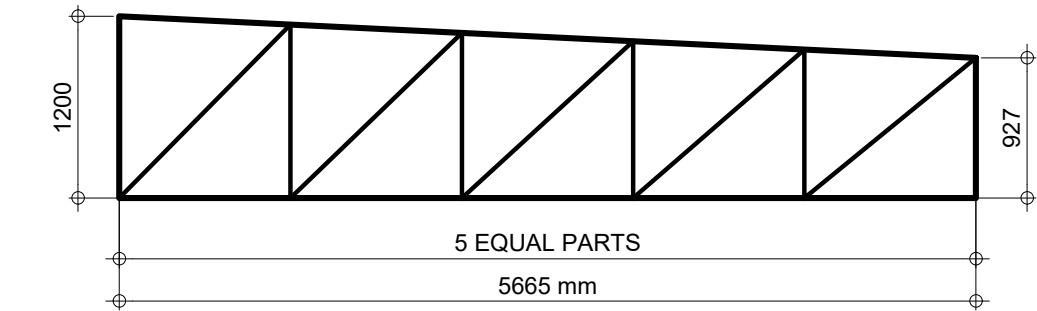
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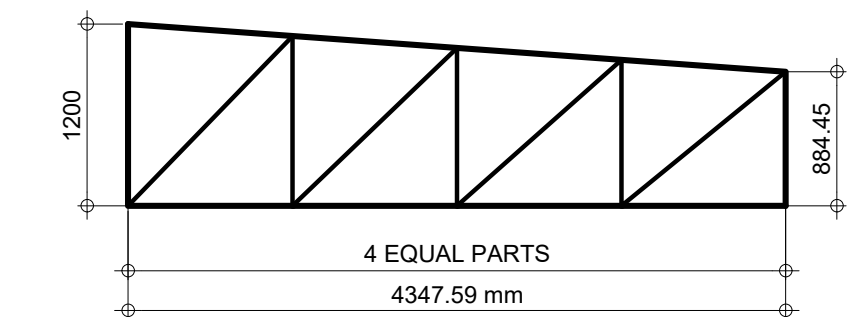
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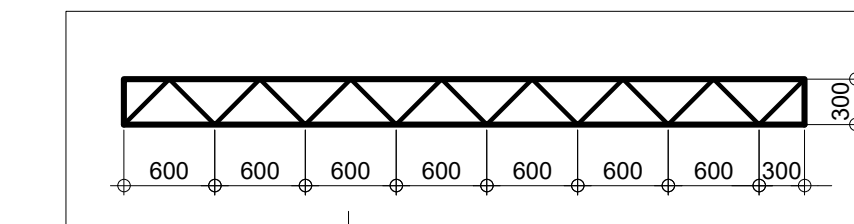
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07 HT-07 DETAIL
SCALE: 1:50



08 GT DETAIL
SCALE: 1:50

SCHEDULE OF TRUSSES & ROOF FRAMING

DESIGNATION	LOCATION	SPECIFICATIONS
HALF-TRUSSES	TOP/BOTTOM CHORDS	2 L - 6 mm THK. x 2" x 2" ANGLE BAR
	WEB MEMBERS	1 L - 6 mm THK. x 2" x 2" ANGLE BAR
GIRT (GT)	TOP/BOTTOM CHORDS	1 L - 6 mm THK. x 1 1/2" x 1 1/2" ANGLE BAR
	WEB MEMBERS	1 L - 6 mm THK. x 1" x 1" ANGLE BAR
CLEATS		4.5mm THK. x 2" x 2" ANGLE BAR
PURLINS		1.5mm THK. x 2" x 6" CEE-PURLINS AT 700mm O.C.
SAGROD		2 - 10mm PLAIN ROUND BAR AT MIDSPAN
CROSS-BRACE		12mm Ø PLAIN ROUND BAR w/ 12mm Ø TURNBUCKLE AT ONE END



PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
DESIGNS BUILT • PLUMBING DESIGN

MICHAEL T. ANG, fuap
ARCHITECT

PRC:	8270
VALIDITY	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE	141342 16JULY15
PTR	6600933
DATE ISS.	05 JAN 2016
PLACE ISS.	GSC
TIN	123-875-856

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JAMES P. PACIS, PICE, ASEP

CIVIL/STRUCTURAL ENGINEER

PRC: 52853	ASEP: 52853-111
PTR No.: 6601121	DATE: 01/07/16
ISS. AT: G.S.C.	T I N No.: 102-900-986

PROJECT TITLE / LOCATION

PROPOSED DORMITORY BUILDING II

PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY

CHUCHI P. GARGANERA, PH. D.
DIRECTOR III

ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:

CHECKED BY:

ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.

S-08

CONSTRUCTION NOTES

A. GENERAL NOTES

- IN THE INTERPRETATION OF THESE DRAWINGS INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- THE CONTRACTOR SHALL COORDINATE WITH THE AR, CE, ME, SE, EE AND OTHER UTILITIES AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENING THRU FLOOR SLABS, BEAMS AND WALLS AND ALSO DIMENSIONS.
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318-95 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS (LATEST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BIDS/MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN THEIR BID.

B. NOTES ON CONCRETE MIXES AND PLACING

- UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE f_c SHALL BE AS FOLLOWS:

1.1 FOUNDATIONS & TIE BEAMS	27.60 MPa (4000 psi)
1.2 COLUMNS & RC WALLS	27.60 MPa (4000 psi)
1.3.1 FOUNDATION TO ROOF BEAM	27.60 MPa (4000 psi)
1.3 FLOOR SLABS, BEAMS & GIRDERS	27.60 MPa (4000 psi)
1.4 CONCRETE GUTTER & STAIRS	24 MPa (3500 psi)
1.5 SLAB-ON-GRADE & WALL FOOTING	21 MPa (3000 psi)
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS, IN WHICH CASE THEY SHALL NOT EXCEED SIX THOUSAND (6000 mm) IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR USUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. NOTES ON REINFORCING STEEL BARS

- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE DEFORMED BARS CONFORMING TO THE SPECIFICATION OF PNS 49:1986 (ASTM 615) WHOSE GRADE IS SHOWN ON TABLE 1.

GRADE	BAR DIAMETER	REMARKS
GRADE 414 (fy = 60 ksi)		PLEASE REFER TO TABULATIONS & DETAILED DRAWINGS OF EACH STRUCTURAL MEMBERS.
GRADE 275 (fy = 40 ksi)		
GRADE 227 (fy = 33 ksi)		

- THE SUPPLEMENTARY REQUIREMENTS OF WELDABLE DEFORMED REINFORCING BARS SHALL BE AS FOLLOWS:
 - THE MAXIMUM YIELD STRENGTH OF WELDABLE BARS = 540 MPa (FOR GRADE 40).
 - THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 TIMES THE ACTUAL YIELD STRENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR USUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.
- ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.
- THE REQUIRED LENGTH OF LAP FOR TENSION SPLICES IS BASED ON THE DEVELOPMENT LENGTH, L_d , SHOWN IN THE TABLE 2 AND TABLE 3 FOR RC BEAMS AND GIRDERS, RESPECTIVELY AND ON THE FOLLOWING CLASSIFICATIONS:

TENSION SPLICES CLASSIFICATION	SPLICE LENGTH
CLASS A	1.0 L_d
CLASS B	1.3 L_d

BAR SIZE (mm)	$f_c = 27.60$ MPa (4000 psi)		$f_c = 24$ MPa (3500 psi)		$f_c = 21$ MPa (3000 psi)	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
16 Ø	390	300	390	300	360	275
20 Ø	650	500	580	450	540	425
25 Ø	1010	780	910	700	800	650

BAR SIZE (mm)	$f_c = 27.60$ MPa		$f_c = 24$ MPa		$f_c = 21$ MPa	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
16 Ø	390	390	390	390	360	275
20 Ø	580	580	580	540	540	425
25 Ø	1010	1010	910	800	800	650

NOTE: FOR BUNDLE BARS (3 BUNDLE) MULTIPLY ABOVE TABLE BY 1.3

- THE REQUIRED LENGTH OF LAP FOR COMPRESSION SPLICES SHALL BE AS SHOWN IN TABLE 4.

BAR SIZE (mm)	$f_c = 27.60$ MPa (4000 psi)	$f_c = 24$ MPa (3500 psi)	$f_c = 21$ MPa (3000 psi)
16 Ø	320	320	320
20 Ø	600	600	600
25 Ø	750	750	750

- CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - CONCRETE CAST AGAINST EARTH - 75 mm
 - CONCRETE EXPOSED TO EARTH:
 - 20 mm TO 36 mm BARS - 50 mm
 - 16 mm BARS AND SMALLER - 40 mm
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS, WALLS, AND JOINTS:
 - BEAMS AND COLUMNS - 20 mm
 - BEAMS AND COLUMNS - 40 mm

D. NOTES ON FOUNDATION

- FOOTING ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 110.0 KPa. AT A MINIMUM DEPTH OF 2.0 METERS FROM THE NATURAL GRADE LINE. CONTRACTOR SHALL REPORT IN WRITING TO THE STRUCTURAL ENGINEER ON THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- NO FOOTING SHALL REST ON FILL. FOOTINGS FOR CHB WALLS AND OTHER MINOR STRUCTURES SHALL BE EMBEDDED AT LEAST 600 mm FROM THE NATURAL GRADE LEVEL.
- PROVIDE TEMPORARY REMOVAL OF WATER FROM ANY SOURCE DURING CONSTRUCTION DE-WATERING SHALL BE CAREFULLY AND PROPERLY REFORMED TO AVOID DISTURBING THE FOUNDATIONS AND SLAB BEARING SURFACES.
- CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR EXCAVATIONS RETENTION SYSTEMS, AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.
- PREPARE CONDITIONS OF CONCRETE SUPPLY AND PLACEMENT OF THE COMPLETE FOUNDATION FOR THE FULL THICKNESS AS A CONTINUOUS MONOLITHIC CASTING.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED THE REQUIRED STRENGTH.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELEVATOR DETAILS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES FOR SUBSOIL DRAINAGE SYSTEM, MACHINERY, ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC.
- SEE TYPICAL DETAIL OF LIMITING SLOPE OF ADJACENT FOOTING AT DIFFERENT ELEVATION. (REFER TO FIGURE 2)

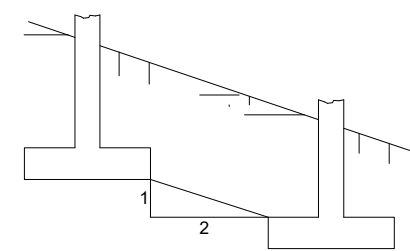


FIGURE 2. DETAIL OF LIMITING SLOPE OF ADJACENT FOOTINGS

E. NOTES ON SLAB - ON - GRADE

- THE SOIL SUBGRADE AND FILL LAYERS BELOW ALL SLABS ON GRADE, PAVING AND PIT SLABS SHALL BE MECHANICALLY COMPACTED IN LAYERS TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR DENSITY, PER ASTM D1557.
- ALL SLABS-ON-GRADE SHALL BE PROVIDED WITH A MINIMUM OF 150 mm THK. COMPACTED CLEAN COARSE SAND BED.
- UNLESS OTHERWISE NOTED, ALL BEDDED SLABS SHALL BE REINFORCED WITH 10 mm BARS AT 400 mm O.C. BOTHWAYS.
- PLACE CONCRETE FOR ALL SLABS-ON-GRADE IN CHECKERBOARD FASHION BETWEEN CONSTRUCTION JOINTS IN AREAS NOT TO EXCEED 300 SQ. METERS WITH A MINIMUM OF 24 HOURS BETWEEN ADJACENT AREAS OF PLACEMENT, CONSTRUCTION JOINTS SHALL NOT BE FARTHER APART THAN 8.00 METERS IN ANY DIRECTION. ALL SLABS-ON-GRADE SHALL BE SAW CUT ON EACH GRID LINE AND MID BAY LINE (IN BOTH DIRECTION) WITHIN 24 HOURS AFTER CASTING.

F. NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS. (REFER TO TABLE-5)

WALL THICKNESS (mm)	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100	10 mm at 250 O.C.	10 mm at 300 O.C.	HORIZONTAL BAR AT CENTER	
125	10 mm at 200 O.C.	10 mm at 250 O.C.	DITTO	
150	12 mm at 288 O.C.	12 mm at 250 O.C.	DITTO	
175	20 mm at 250 O.C.E.F.	12 mm at 200 O.C.E.F.	DITTO	
200	10 mm at 288 O.C.E.F.	10 mm at 250 O.C.E.F.	BOTH FACES HORIZONTAL SHALL BE OUTSIDE.	

- REINFORCING BARS SHALL 25 mm MINIMUM CLEAR DISTANCE FROM WALL EXCEPT FOR WALLS DEPOSITED AGAINST THE GROUND WHERE A MINIMUM OF 63 mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50 mm. CLEAR FOR BARS LARGER THAN 16 mm. AND 38 mm FOR 16 mm BARS OR SMALLER.

- CARRY VERTICAL BARS AT LEAST 600 mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY. STOP AT 50 mm BELOW BETWEEN TOP OF THE SLAB OR SOLID BAND WHERE THE WALLS END. HORIZONTAL AND VERTICAL BARS SHALL BE SPLICE BY LAPPING A DISTANCE EQUAL TO 40 DIAMETER AND WIRED SURELY WITH NO. 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1520 mm ON CENTER. (SEE FIGURE 3)

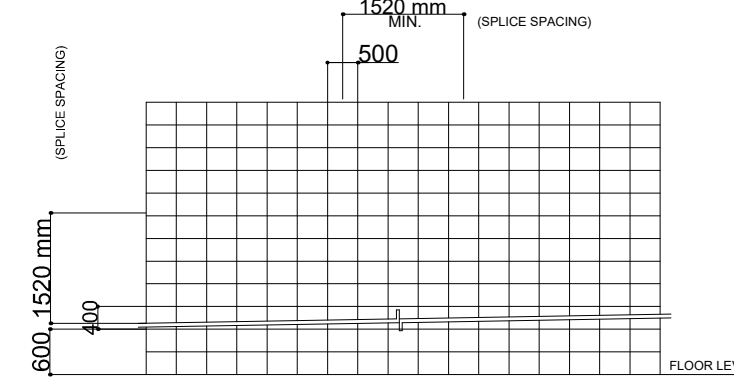
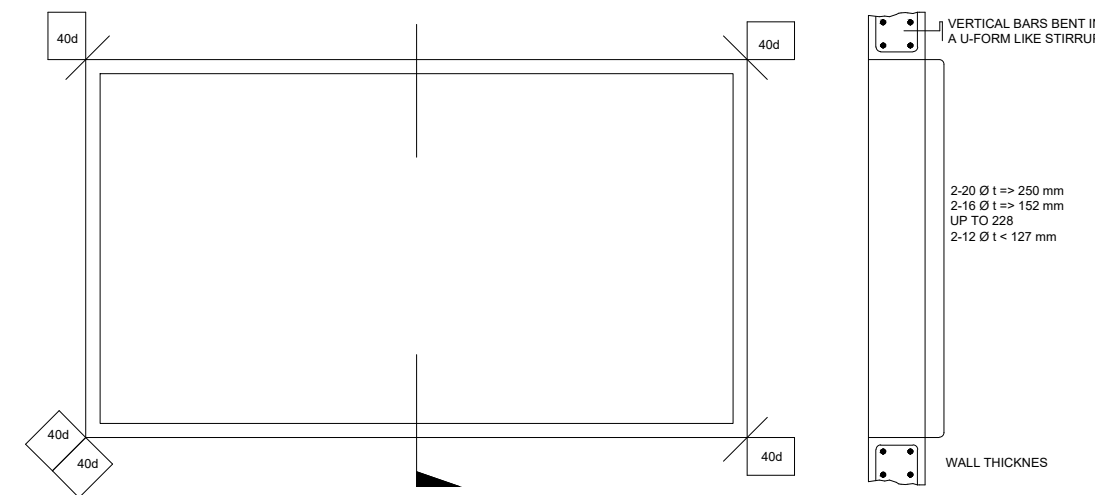


FIGURE 3

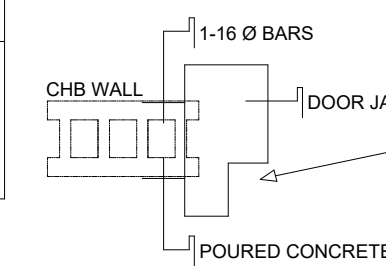


SECTION

G. NOTES ON MASONRY WALLS

- ALL MATTERS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND UNIFORM BUILDING CODE.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- MORTAR AND GROUT FOR ALL REINFORCED MASONRY SHALL CONFORM TO ASTM 270-TYPE M AND SHALL HAVE A MINIMUM 28 DAYS STANDARD CYLINDER COMPRESSIVE OF 21 MPa (3000 PSI).
- ALL MASONRY WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT.
- FOR TYPICAL CONNECTION DETAILS ON MASONRY UNITS. REFER TO FIGURES 5, 6 & 7 RESPECTIVELY.

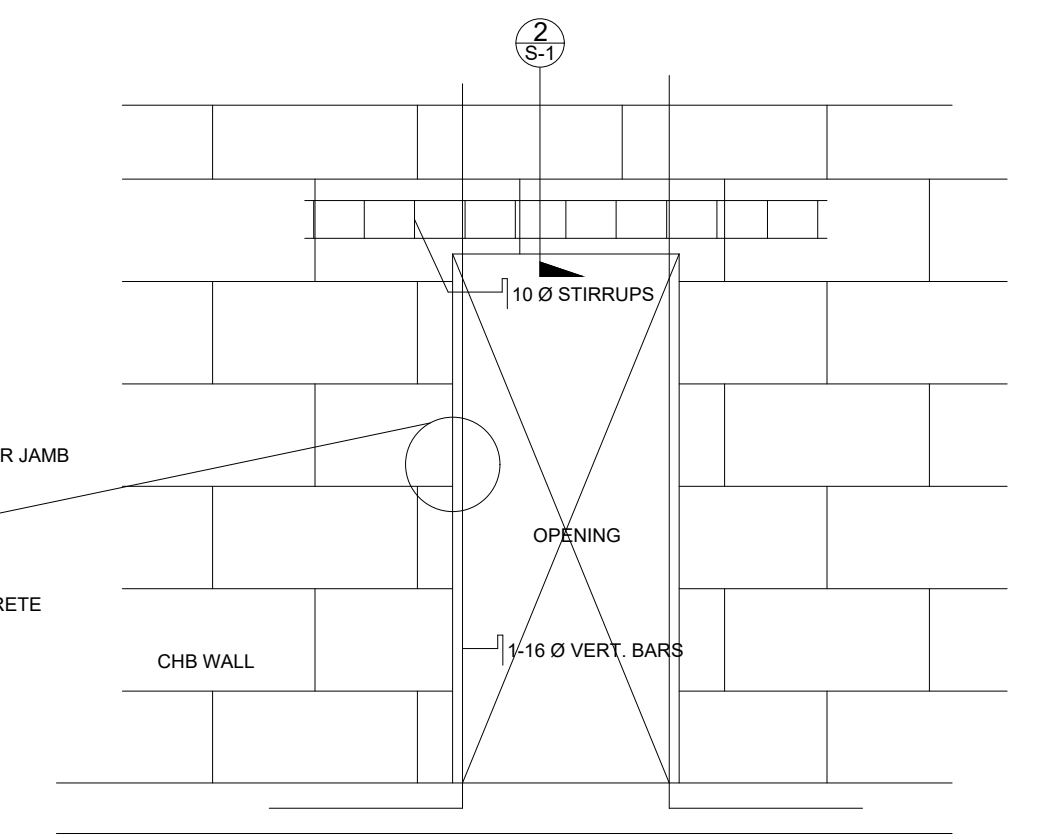
BLOCK THICKNESS (mm)	REINFORCEMENT		NOTE
	HORIZONTAL	VERTICAL	
100	10 Ø at 400 O.C.	12 mm at 600 O.C.	A. MINIMUM LAP SPLICES - 300 B. PROVIDE 1-16 VERTICAL BARS @ CORNERS, INTERSECTION AND OF CONCRETE HOLLOW BLOCK REINFORCEMENT. SEE SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT. C. PROVIDE ONE WALL THROUGHOUT. RC BEARS WALLS DOWEL WITH THE SAME SIZE AS TOPICAL CHB REINFORCEMENT SHALL BE PROVIDED. D. USE 10 Ø STEEL REBAR (ASTM 615) TRANSVERSE WALL CORNERS AND L-ANCHORS. E. PROVIDE POST AND L-ANCHORS @ 3000 O.C.
150	10 Ø at 400 O.C.	12 mm at 600 O.C.	



SECTION

SECTION

TYPICAL DETAIL OF 100 & 150 CHB CONCRETE POSTS @ 3,000 mm O.C.



ELEVATION

CONSTRUCTION NOTES

BEAM REINFORCING BARS BOTH TOP AND BOTTOM TERMINATING IN A WALL SHALL EXTEND AT THE MOST 50 mm FROM THE FACE OF THE WALL AND SHALL TERMINATE IN A STANDARD 90° HOOK.

5. WHEN A BEAM CROSSES A GIRDER REST BEAM BARS ON TOP OF THE GIRDER BARS- PROVIDE ADDITIONAL TIES AS SHOWN IN FIGURE 14 WHEN BEAMS OF DIFFERENT TOP ELEVATIONS CROSS A GIRDER.

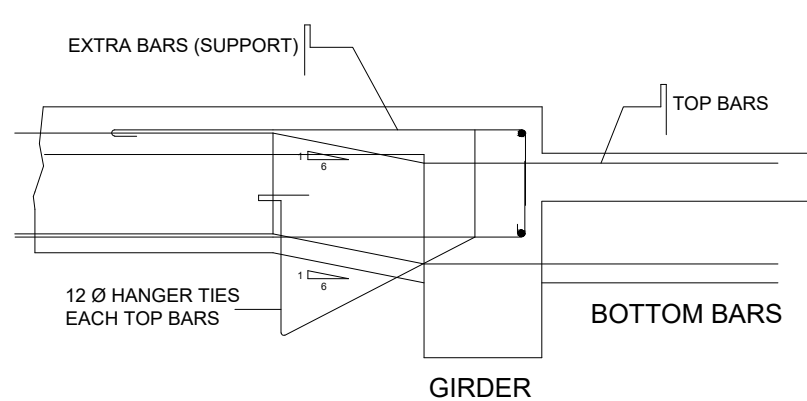


FIGURE 14. EXTRA TIES FOR UNLEVELED BEAMS (TYPICAL FOR 150 & SMALLER DROP ONLY)

- LONGITUDINAL REINFORCEMENT OF GIRDERS, BOTH TOP AND BOTTOM, TERMINATED IN A COLUMN SHALL BE EXTENDED TO THE FAR FACE OF THE CONFINED CONCRETE CORE OF THE COLUMN AND TERMINATED BY A STANDARD 90° HOOK.
- GENERALLY, NO LAP SPICE SHALL BE PERMITTED ON BEAMS AND GIRDERS AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. IN ADDITION, FOR GIRDERS, NO LAP SPICE SHALL BE LOCATED WITHIN THE JOINTS OR WITHIN A DISTANCE EQUAL TO TWICE THE MEMBER DEPTH FROM THE FACE OF THE JOINT.
- PROVIDE LAP SPICES IN GIRDERS WITH HOOP REINFORCEMENT OVER THE LENGTH OF THE LAPPED BARS SPACED NO FARTHER THAN ONE - FOURTH THE NOMINAL DEPTH, OR 100 mm.
- WELDED SPICES AND MECHANICAL CONNECTIONS MAY BE USED FOR SPICING BEAMS AND GIRDERS PROVIDED THAT NO MORE THAN ALTERNATE BARS IN EACH LAYER OF LONGITUDINAL REINFORCEMENT AND SPICES AT A SECTION AND THE CENTER TO CENTER DISTANCE BETWEEN SPICES OF ADJACENT BARS IS AT LEAST 600 mm MEASURED ALONG THE AXIS OF THE MEMBER.
- UNLESS OTHERWISE DETAILED, TYPICAL BAR CUTTING DETAILS ARE AS SHOWN IN FIGURES 15 & 16 AND 10 OF THE NOTES ON REINFORCING STEEL BARS ON SHEET - 1.
- SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING, CONDUITS, DUCTWORKS, EQUIPMENTS, ETC.
- PIPE AND DUCT SLEEVES SHALL BE LOCATED WITHIN THE REGION BOUNDED BY ONE-FOURTH OF CLEAR SPAN LENGTH FROM THE SUPPORTS. (SEE FIGURE 18)
- SHEAR REINFORCEMENT SHALL BE IN THE FORM OF HOOPS IN REGIONS WHERE CONFINEMENT IS REQUIRED. SINGLE AND TWO-PIECE HOOPS SHALL BE AS DETAILED IN FIGURE 19. PIPE SLEEVE

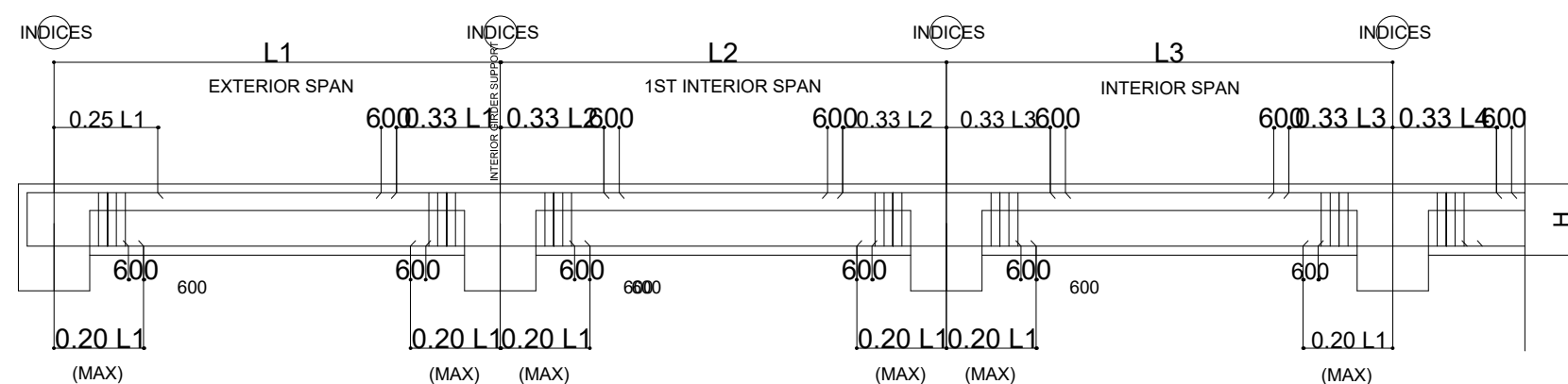


FIGURE 15. TYPICAL BAR DETAILS FOR BEAMS

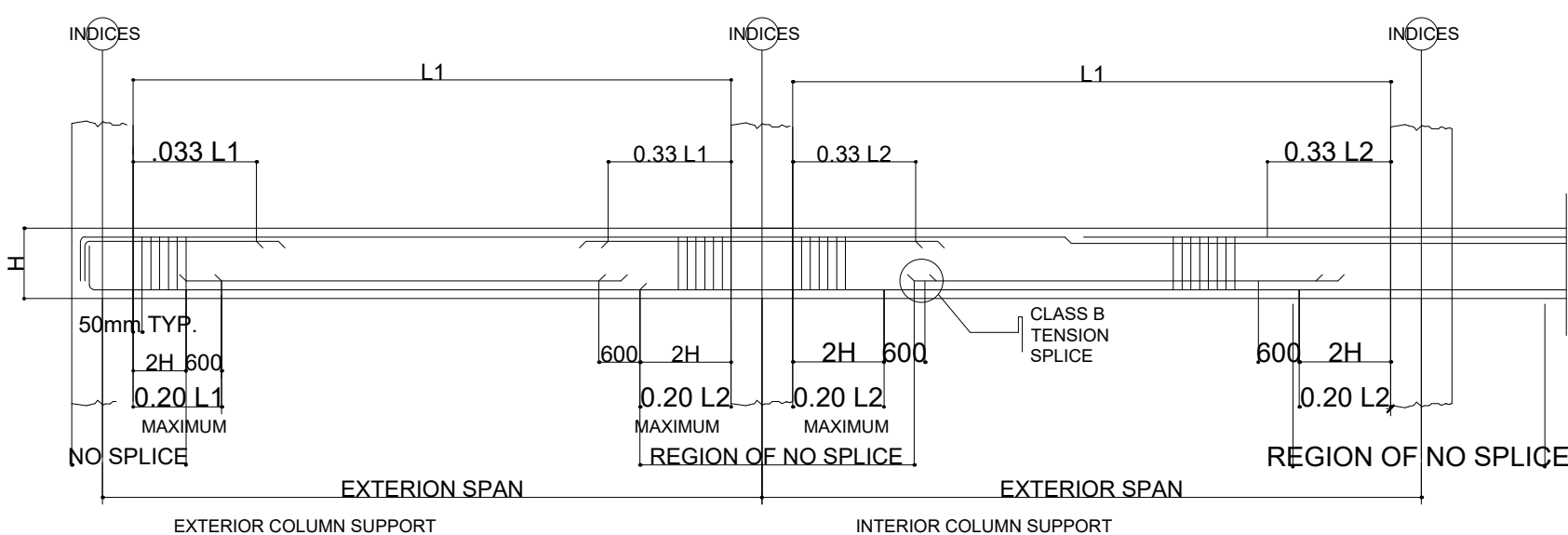


FIGURE 16. TYPICAL BAR DETAILS FOR PRISMATIC GIRDERS

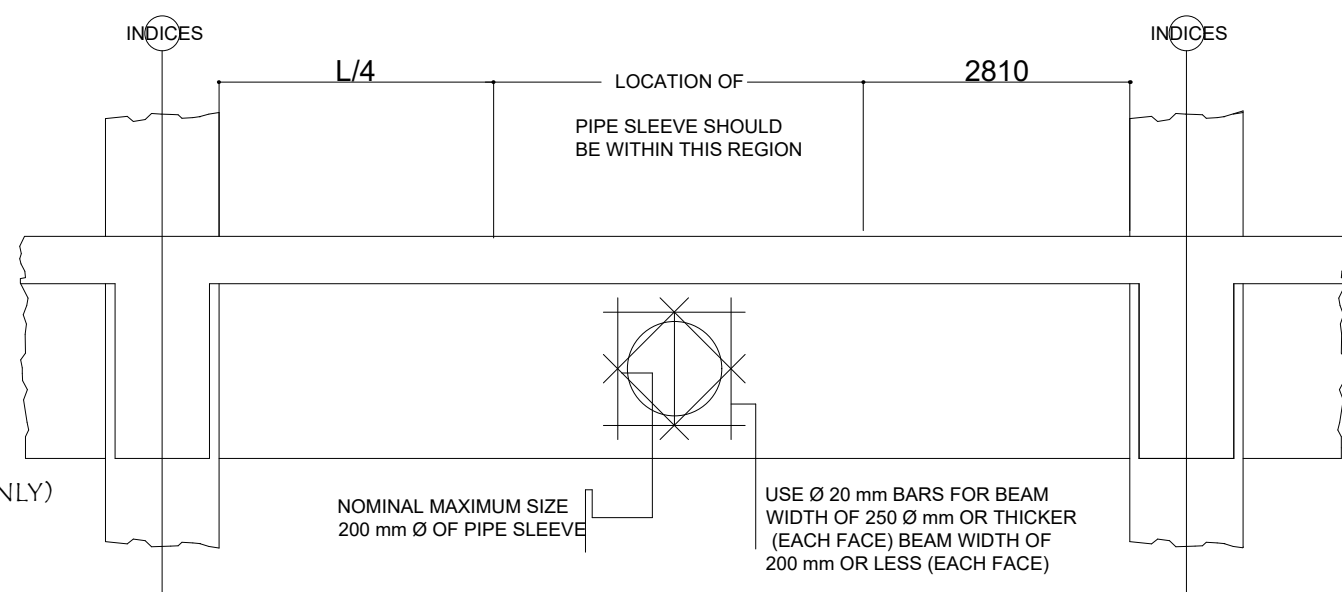


FIGURE 17. TYPICAL PIPE SLEEVE DETAIL

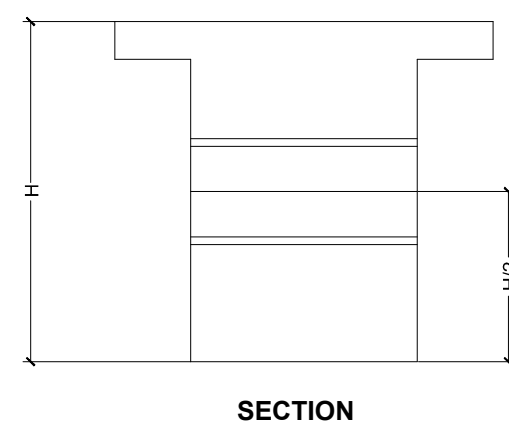
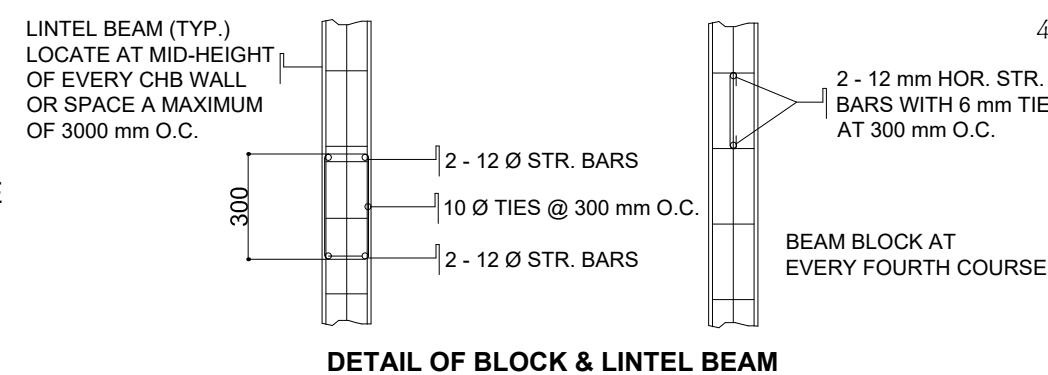


FIGURE 18. SINGLE AND TWO-PIECE HOOPS



DETAIL OF BLOCK & LINTEL BEAM

H. NOTES ON CONCRETE SLABS

- ALL SLABS REINFORCEMENTS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 20 mm FROM THE BOTTOM AND FROM THE TOP OF SLABS.
- UNLESS OTHERWISE DETAILED, FOR CONTINUOUS SLABS WITH THE MAIN REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARS SHALL BE BENT UP, EXTENDED OR CUT AS FOLLOWS:

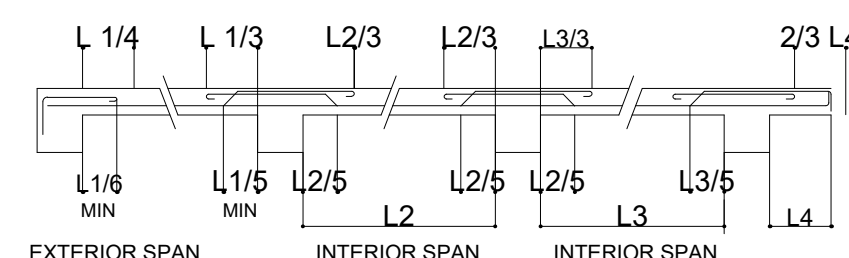


FIGURE 8.

- IF SLABS ARE REINFORCED BOTH HAY, BARS ALONG THE SHORTER SPAN BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER OF THE SLAB AND BE PLACED OVER THE LONGER SPAN BARS ON AREAS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL BE APPROXIMATELY ONE AND ONE-HALF (1½) TIMES THAT IN THE MIDDLE STRIPS BUT IN NO CASE GREATER THAN TWO AND ONE-HALF (2½) TIMES THE SLAB THICKNESS OR 450mm.
- TEMPERATURE BARS FOR SLABS SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 B. (SEE TABLE 7)
- UNLESS OTHERWISE NOTED, DROP SLABS SHALL BE PROVIDED WITH ADDITIONAL REINFORCEMENT AT THE LOCATION OF DROPS AS SHOWN IN FIGURE 9.
- PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW AND AT ENDS CORNERS OF SHEAR WALL (SEE FIGURE 10).

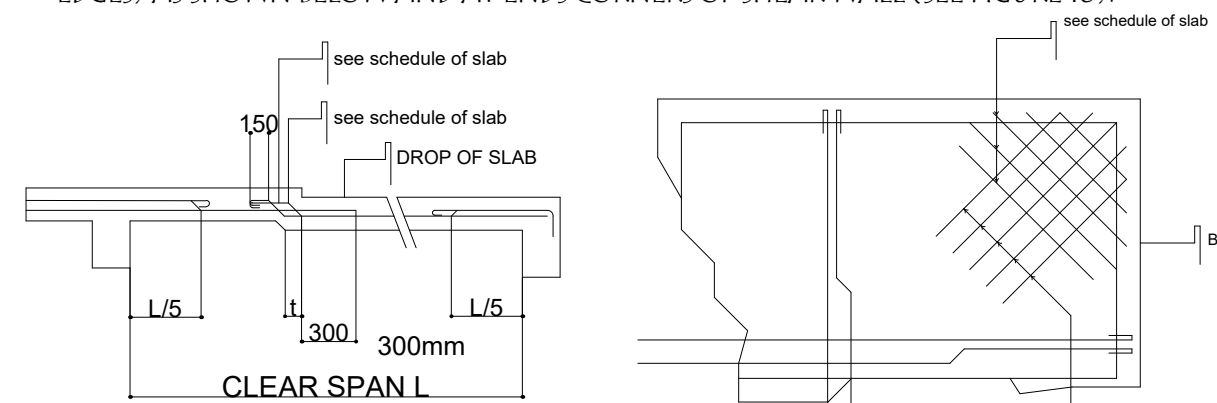


FIGURE 9. DROP SLAB

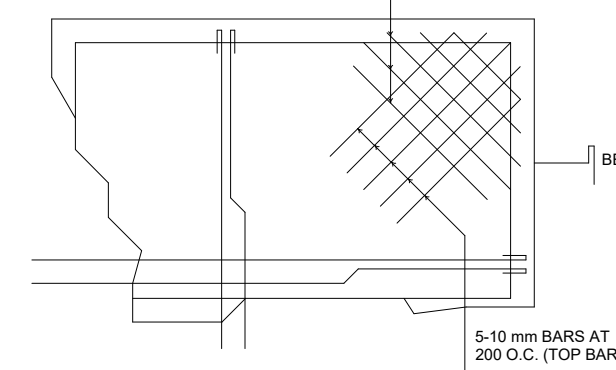
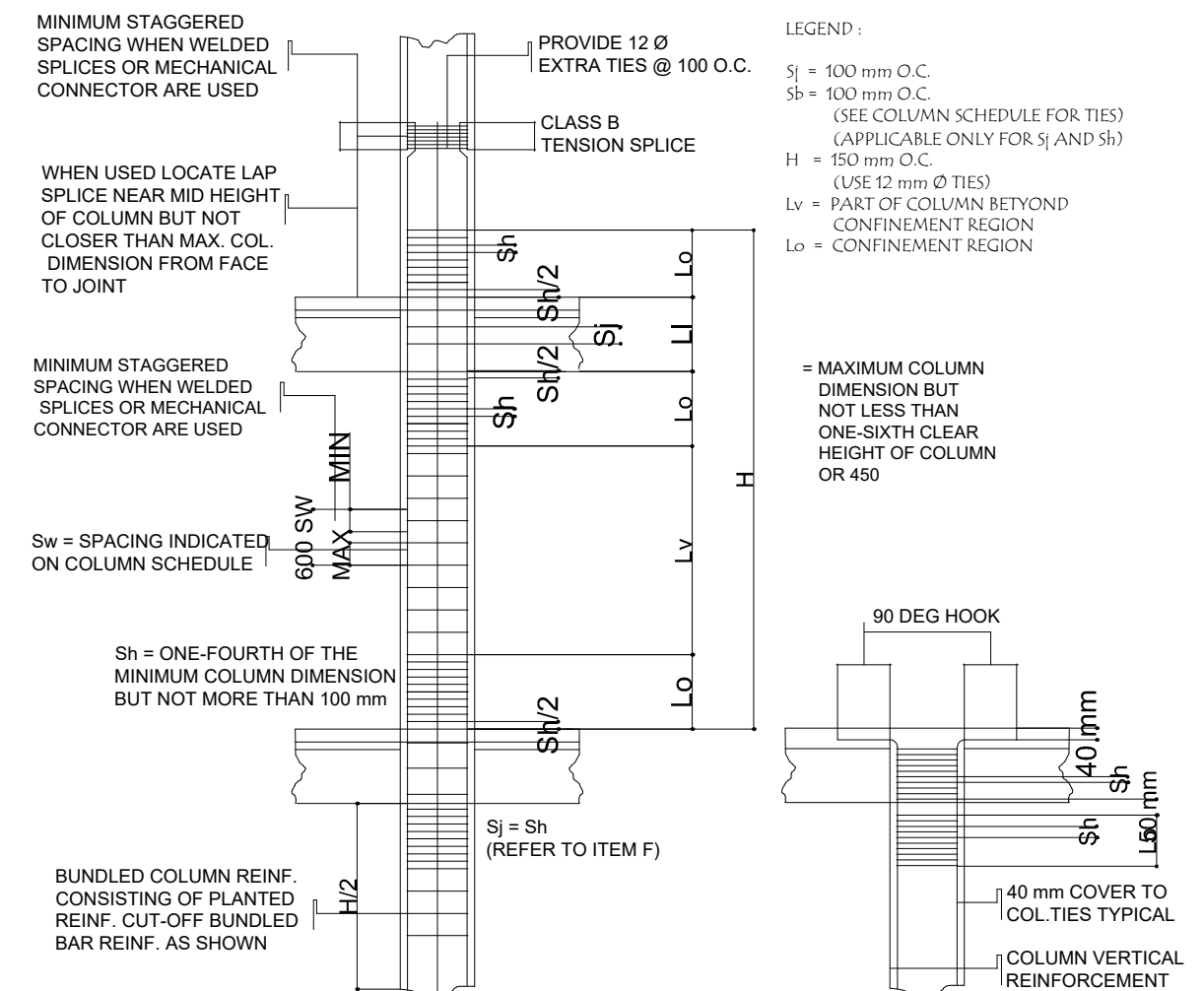


FIGURE 10. CORNER SLAB

- SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING CONDUITS DUCTWORK EQUIPMENT ETC.
- UNLESS OTHERWISE NOTED, EMBEDDED CONDUITS SHALL BE RUN GENERALLY AT MID-BAY AND PARALLEL CONDUITS SHALL BE AT THREE DIAMETERS ON CENTER. CONDUIT SIZE NOT EXCEED ¼ OF THE SLAB THICKNESS AND SHALL BE LOCATED AT MID THICKNESS OF THE SLAB.

I. NOTES ON COLUMNS

- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE NOT MORE THAN 1 in. 6. PROVIDE TRANSVERSE REINFORCEMENT AS PER ITEM E BELOW FOR JOINTS WITH BAR OFFSET (AS SHOWN IN FIGURE 11.)
- LAP SPICES, WHEN REQUIRED, ARE PERMITTED ONLY WITHIN THE CENTER OF THE COLUMN LENGTH AND SHALL BE PROPORTIONED AS TENSION SPICES, IN NO CASE SHALL THE LAP SPICE BE LOCATED CLOSER THAN A DISTANCE EQUAL TO THE MAXIMUM COLUMN DIMENSION FROM THE FACE OF THE BEAM-COLUMN JOINT. PROVIDE EXTRA TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SCHEDULE SPACED AT MOST ONE-FOURTH THE MINIMUM COLUMN SECTION DIMENSION THROUGHOUT THE LENGTH OF THE SPICE OR 100 mm.
- FOR ALL TIED COLUMNS, PROVIDE TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SECTION SCHEDULE AND SPACED NO GREATER THAN ONE-QUARTER THE MINIMUM COLUMN SECTION DIMENSION NOR 100 mm, OVER A DISTANCE FROM EACH JOINT FACE OF NOT LESS THAN THE LARGER OF THE MAXIMUM COLUMN SECTION DIMENSION, OR ONE-SIXTH OF THE CLEAR HEIGHT OF THE COLUMN OR 450 mm.
- UNLESS OTHERWISE DETAILED, TYPICAL BAR DETAILS FOR TIED COLUMNS ARE AS SHOWN IN FIGURE 12.



TYPICAL TIED COLUMN BARS DETAIL

DETAIL OF REINFORCEMENTS OF TIED COLUMN AT TOP

FIGURE 12. TYPICAL SLICE & OFFSET DETAIL OF COLUMN BARS

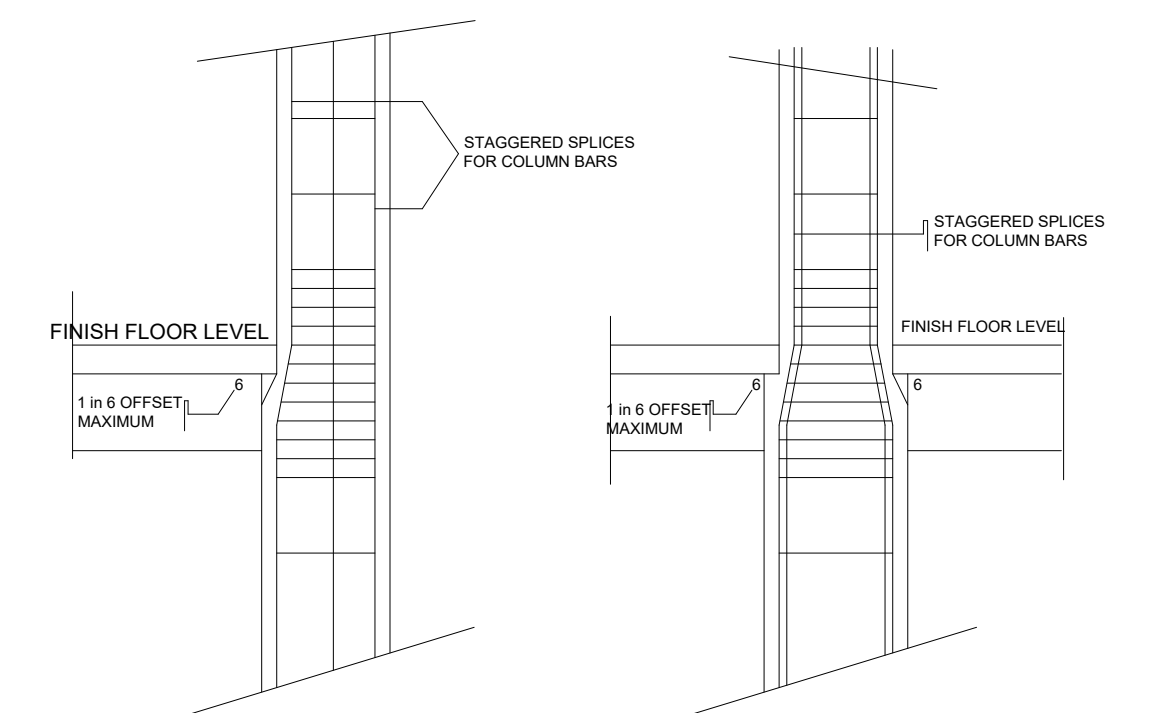
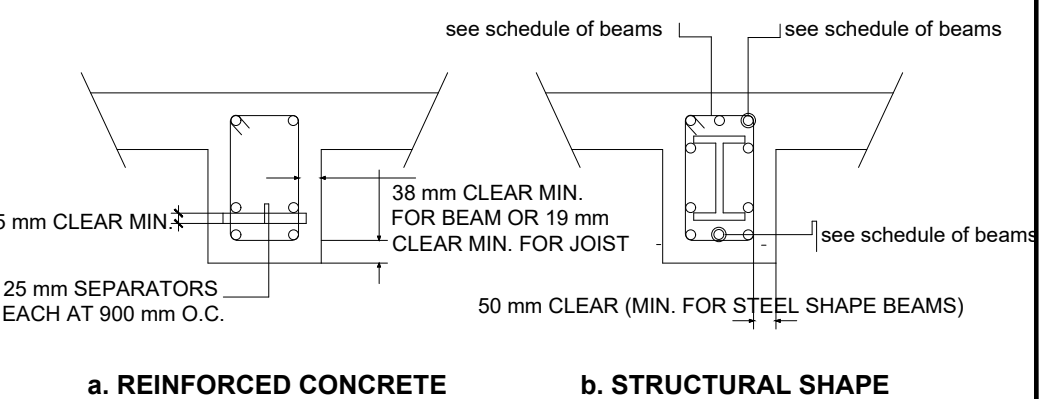


FIGURE 11. TYPICAL SLICE & OFFSET DETAIL OF COLUMN BARS

J. NOTES ON BEAMS AND GIRDERS

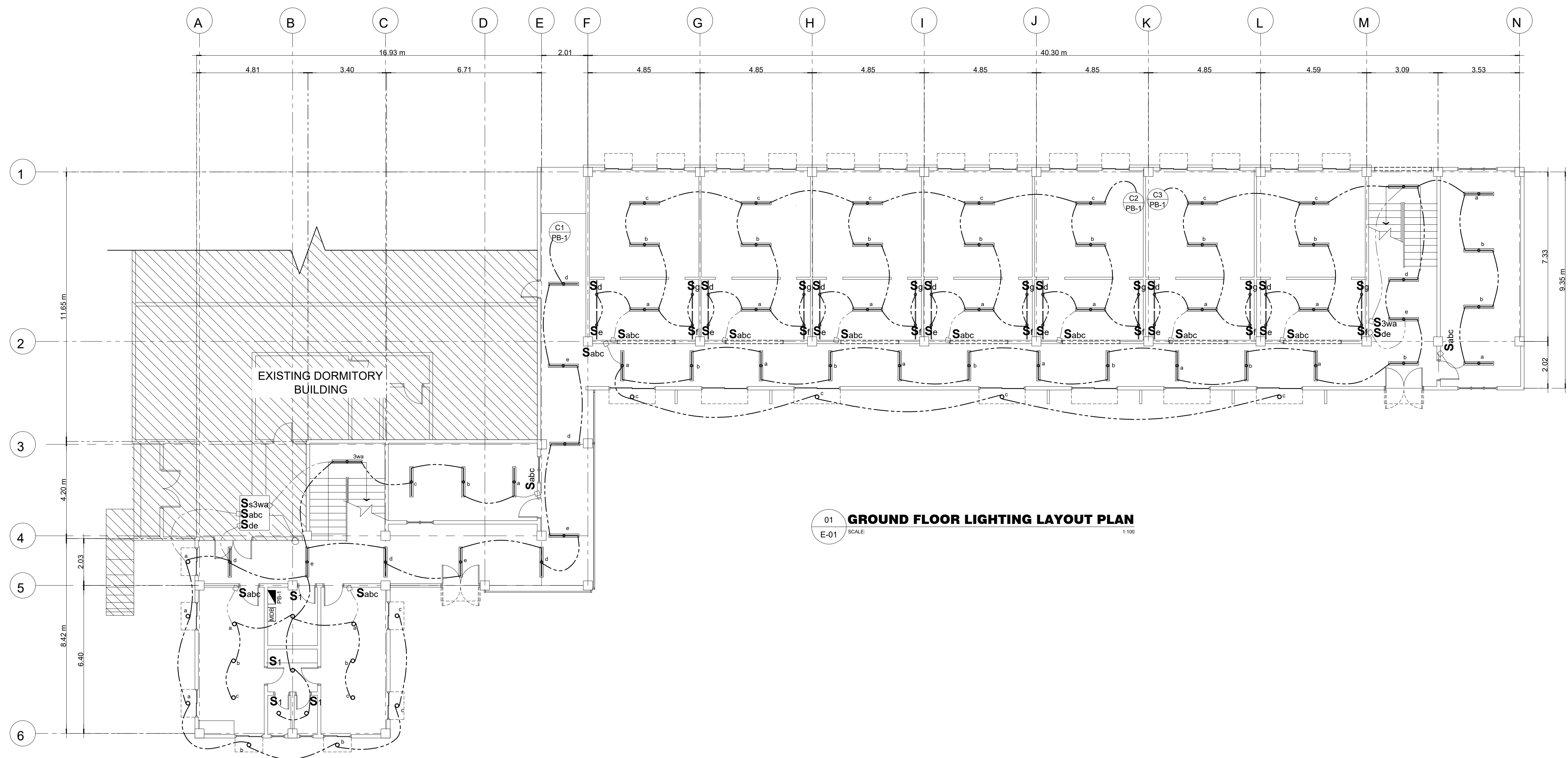
- UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL BEAMS AT LEAST 8mm FOR EVERY 450 mm OF SPAN EXCEPT FOR CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN THE PLANS OR AS ORDERED BY THE STRUCTURAL ENGINEERS BUT IN NO CASE LESS THAN 19 mm FOR EVERY 300 mm OF FREE SPAN.
- IF THERE ARE TWO OR MORE LAYERS OF LONGITUDINAL REINFORCING BARS IN A BEAM OR GIRDER, USE SEPARATORS OF A SIZE NOT LESS THAN 25 mm BARS SPACED ABOUT 900 mm ON CENTER IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN LAYER OF BARS.
- LONGITUDINAL REINFORCING BARS SHALL BE PLACED SYMMETRICALLY ABOUT THE VERTICAL CENTER LINE OF THE BEAM OR GIRDER SECTION WHERE POSSIBLE WITH UPPER LAYER BARS PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER.
- MINIMUM CONCRETE PROJECTION OR REINFORCEMENT BARS OR SHAPES SHALL BE AS SHOWN IN FIGURE 13.



a. REINFORCED CONCRETE

b. STRUCTURAL SHAPE

LEGEND:			
	1 x 18w PINLIGHT		WATER PUMP
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES		EXHAUST FAN
	T-5 LIGHT COVE LIGHT		PANEL BOARD
	CIRCUIT HOMERUN		
	EMERGENCY LIGHT		
	DUPLEX CONVENIENCE OUTLETS		



01 **GROUND FLOOR LIGHTING LAYOUT PLAN**
E-01 SCALE: 1:100

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MICHAEL T. ANG, fuap
ARCHITECT

PRC:	8270
VALIDITY:	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE:	141342 16JULY15
PTR:	6600933
DATE ISS:	05 JAN 2016
PLACE ISS:	GSC
TIN:	123-875-856

SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.

FERNANDO G. OCAT
PROF. ELECTRICAL ENGINEER
PRC Reg.No.: 2228 PTR No.: 6580750
TIN No.: 130-297-471 Date: 1/04/16 Iss.: GSC

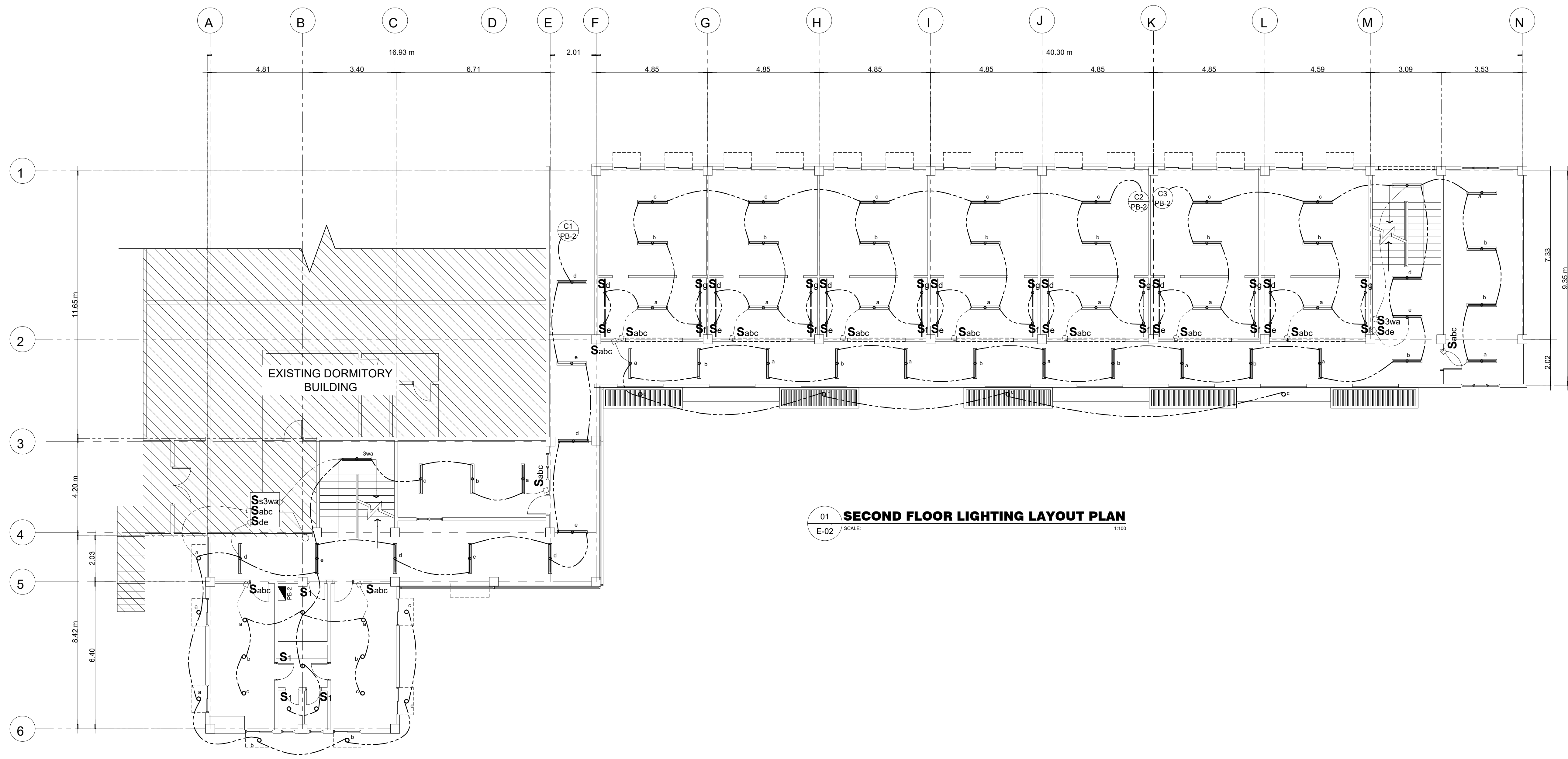
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
DIRECTOR III
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PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.
E-01
22 44

LEGEND:			
	1 x 18w PINLIGHT		WATER PUMP
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES		EXHAUST FAN
	T-5 LIGHT COVE LIGHT		PANEL BOARD
	CIRCUIT HOMERUN		
	EMERGENCY LIGHT		
	DUPLEX CONVENIENCE OUTLETS		



01 **SECOND FLOOR LIGHTING LAYOUT PLAN**
 E-02 SCALE: 1:100

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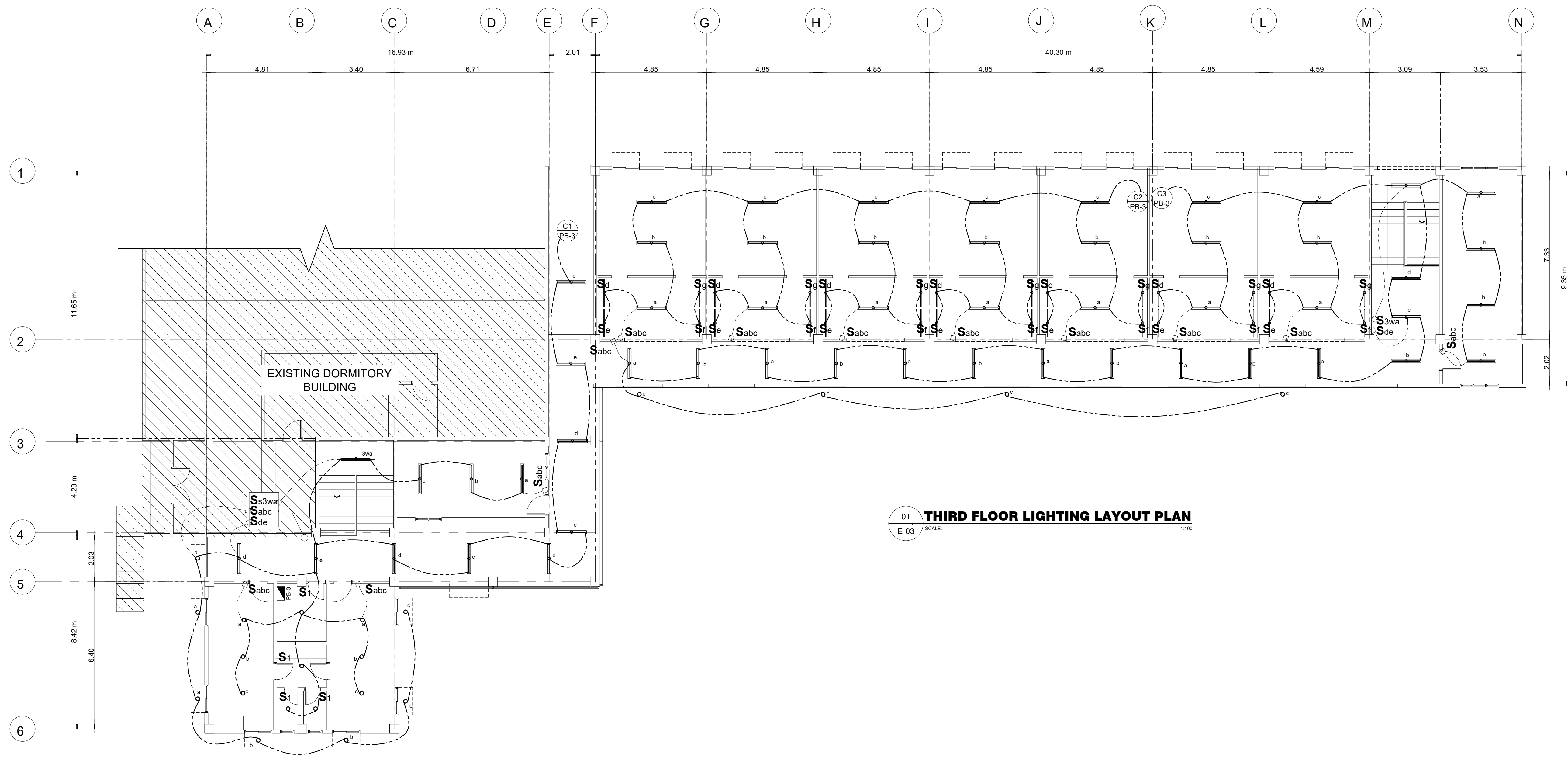
PROJECT TITLE / LOCATION
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 RESIDENT ENGINEER

SHEET NO.	
E-02	
23	44

LEGEND:			
	1 x 18w PINLIGHT		WATER PUMP
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES		EXHAUST FAN
	T-5 LIGHT COVE LIGHT		PANEL BOARD
	CIRCUIT HOMERUN		
	EMERGENCY LIGHT		
	DUPLEX CONVENIENCE OUTLETS		



01 **THIRD FLOOR LIGHTING LAYOUT PLAN**
E-03 SCALE: 1:100

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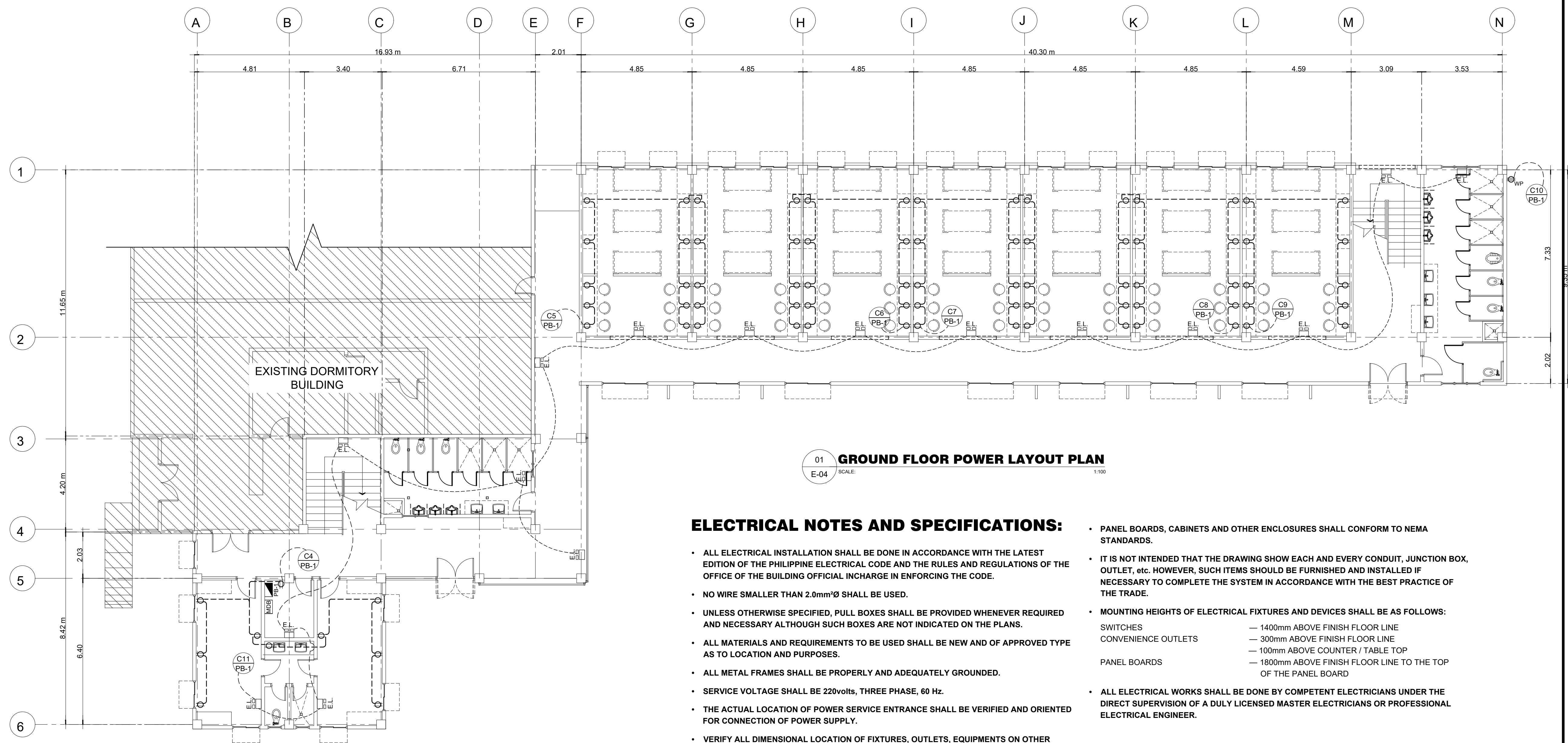
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RESIDENT ENGINEER

SHEET NO.	
E-03	
24	44

LEGEND:			
	1 x 18w PINLIGHT		WATER PUMP
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES		EXHAUST FAN
	T-5 LIGHT COVE LIGHT		PANEL BOARD
	CIRCUIT HOMERUN		
	EMERGENCY LIGHT		
	DUPLEX CONVENIENCE OUTLETS		



01 **GROUND FLOOR POWER LAYOUT PLAN**
E-04 SCALE: 1:100

ELECTRICAL NOTES AND SPECIFICATIONS:

- ALL ELECTRICAL INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND THE RULES AND REGULATIONS OF THE OFFICE OF THE BUILDING OFFICIAL INCHARGE IN ENFORCING THE CODE.
- NO WIRE SMALLER THAN 2.0mm² SHALL BE USED.
- UNLESS OTHERWISE SPECIFIED, PULL BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY ALTHOUGH SUCH BOXES ARE NOT INDICATED ON THE PLANS.
- ALL MATERIALS AND REQUIREMENTS TO BE USED SHALL BE NEW AND OF APPROVED TYPE AS TO LOCATION AND PURPOSES.
- ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED.
- SERVICE VOLTAGE SHALL BE 220volts, THREE PHASE, 60 Hz.
- THE ACTUAL LOCATION OF POWER SERVICE ENTRANCE SHALL BE VERIFIED AND ORIENTED FOR CONNECTION OF POWER SUPPLY.
- VERIFY ALL DIMENSIONAL LOCATION OF FIXTURES, OUTLETS, EQUIPMENTS ON OTHER DRAWINGS OF RELATED TRADES AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITION AFFECTING THE ELECTRICAL WORK.
- PANEL BOARDS, CABINETS AND OTHER ENCLOSURES SHALL CONFORM TO NEMA STANDARDS.
- IT IS NOT INTENDED THAT THE DRAWING SHOW EACH AND EVERY CONDUIT, JUNCTION BOX, OUTLET, etc. HOWEVER, SUCH ITEMS SHOULD BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- MOUNTING HEIGHTS OF ELECTRICAL FIXTURES AND DEVICES SHALL BE AS FOLLOWS:
 SWITCHES — 1400mm ABOVE FINISH FLOOR LINE
 CONVENIENCE OUTLETS — 300mm ABOVE FINISH FLOOR LINE
 — 100mm ABOVE COUNTER / TABLE TOP
 PANEL BOARDS — 1800mm ABOVE FINISH FLOOR LINE TO THE TOP OF THE PANEL BOARD
- ALL ELECTRICAL WORKS SHALL BE DONE BY COMPETENT ELECTRICIANS UNDER THE DIRECT SUPERVISION OF A DULY LICENSED MASTER ELECTRICIANS OR PROFESSIONAL ELECTRICAL ENGINEER.

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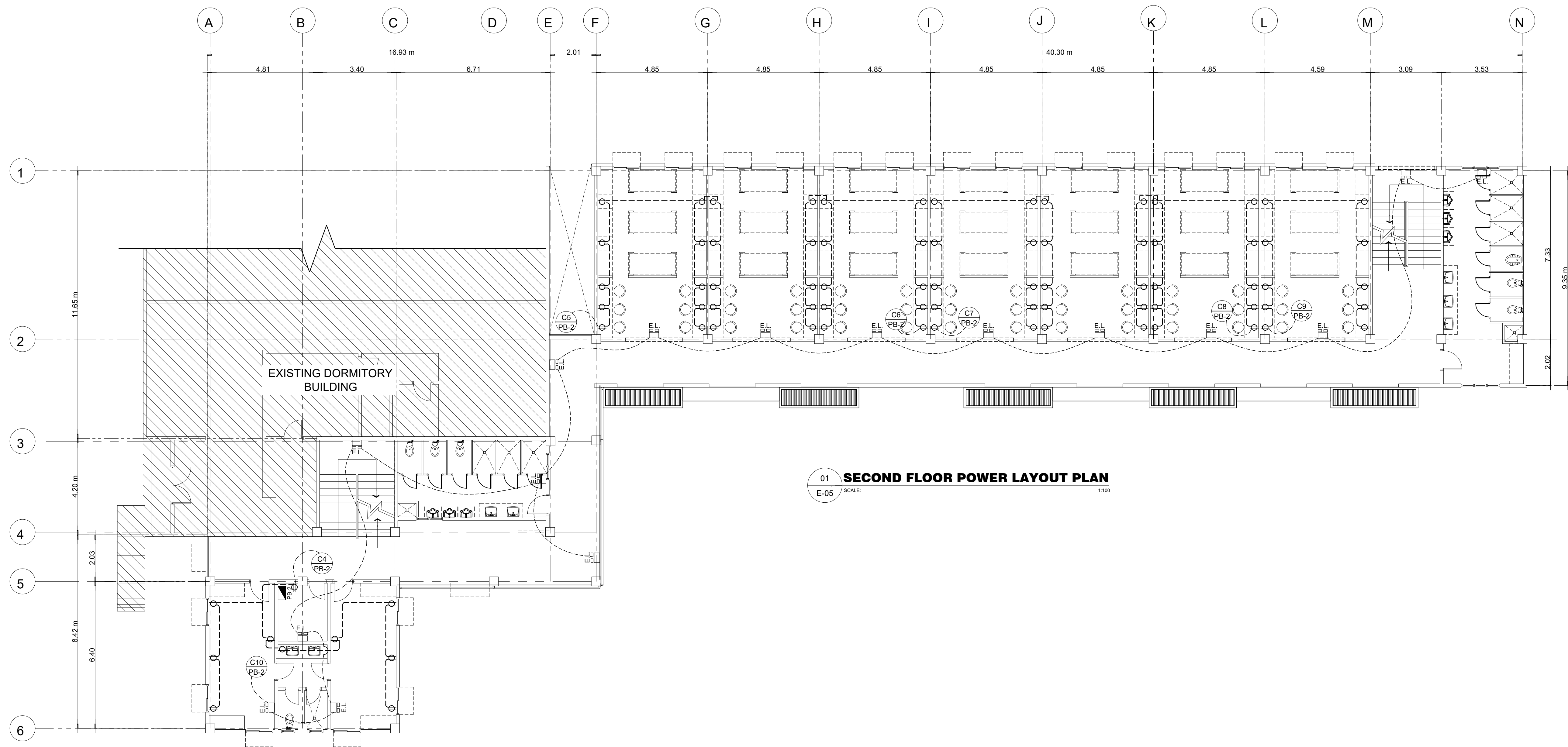
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JUNIOR ARCHITECT
CHECKED BY:
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RESIDENT ENGINEER

SHEET NO.	E-04
	25 44

LEGEND:			
	1 x 18w PINLIGHT		WATER PUMP
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES		EXHAUST FAN
	T-5 LIGHT COVE LIGHT		PANEL BOARD
	CIRCUIT HOMERUN		
	EMERGENCY LIGHT		
	DUPLEX CONVENIENCE OUTLETS		



01 **SECOND FLOOR POWER LAYOUT PLAN**
E-05 SCALE: 1:100

M.T. Ang
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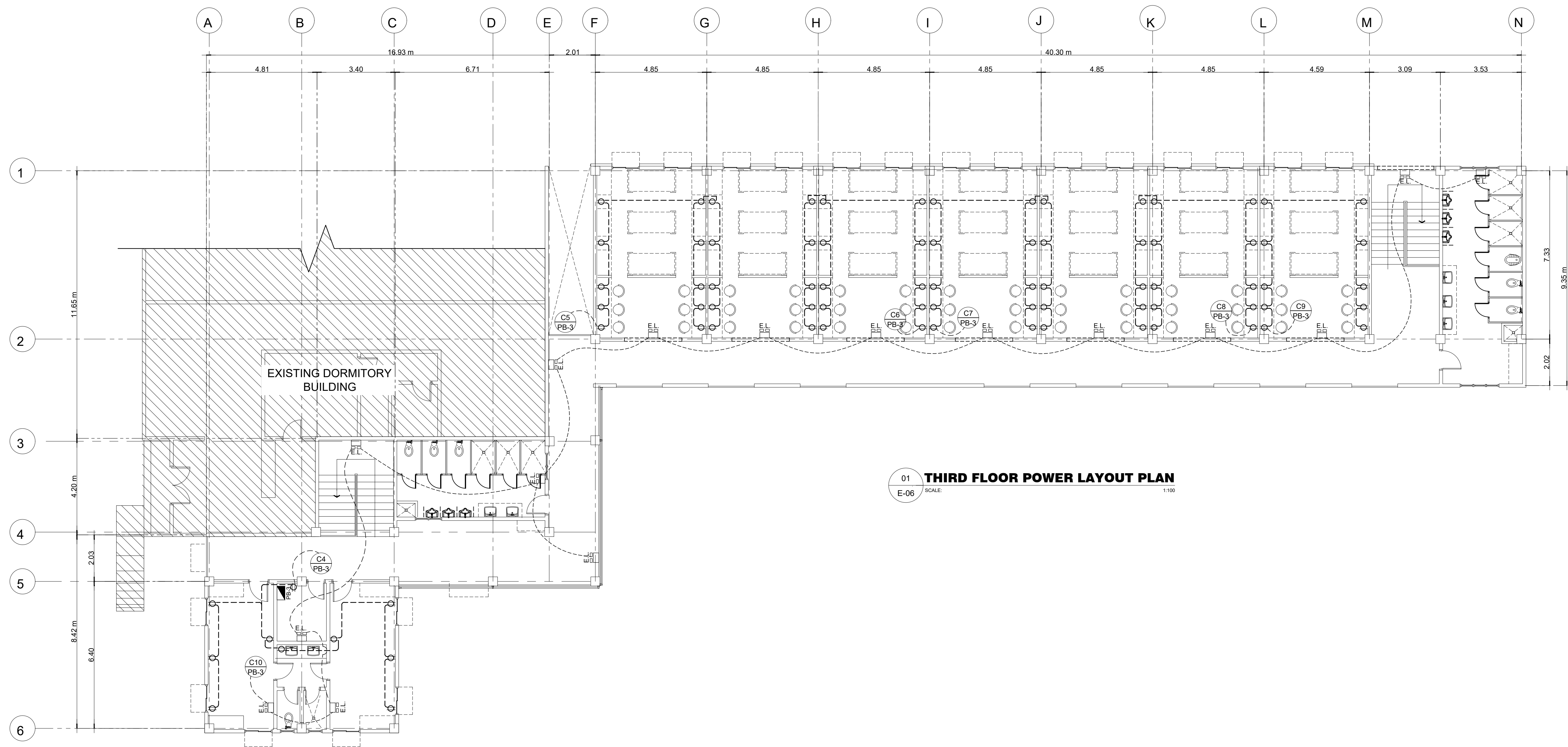
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CHECKED BY:
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SHEET NO.	
E-05	
26	44

LEGEND:	
	1 x 18w PINLIGHT
	1-40w F.L. W/ LOUVER TYPE LUMINAIRES
	T-5 LIGHT COVE LIGHT
	CIRCUIT HOMERUN
	EMERGENCY LIGHT
	DUPLEX CONVENIENCE OUTLETS
	WATER PUMP
	EXHAUST FAN
	PANEL BOARD



01 **THIRD FLOOR POWER LAYOUT PLAN**
E-06 SCALE: 1:100

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DESIGNS BUILT • PLUMBING DESIGN
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CHECKED BY:
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RESIDENT ENGINEER

SHEET NO.	
E-06	
27	44

LOAD COMPUTATION FOR PB-01

CKT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/VA/HP	AMPERES			SWITCHES			SIZES OF WIRES AND CONDUITS	CIRCUIT PROTECTION			VOLTAGE	
		L.O	C.O	OTHERS		AB	BC	AC	S1	S2	S3		3W	AT	AF		POLE
1	LIGHTING OUTLET	30			3000 W	13.6			4	1	4	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
2	LIGHTING OUTLET	35			3500 W		15.9		20	5			2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
3	LIGHTING OUTLET	37			3700 W			16.8	8	1	2	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
4	CONVENIENCE OUTLET		10		1850 W	8.4							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
5	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
6	CONVENIENCE OUTLET		15		2775 W			12.6					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
7	CONVENIENCE OUTLET		15		2775 W	12.6							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
8	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
9	CONVENIENCE OUTLET		10		1850 W			8.4					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
10	WATER PUMP			1	1.5 HP	10.0							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
11	EMERGENCY LIGHTS			16	1600 W		7.3						2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
12	SPARE				1000 W			4.5					2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
TOTAL		102	80	17		44.7	48.4	42.4	32	7	6	4	3-30mm² THHN WIRE IN 1½" Ø RSC	100	125	3	220

LOAD COMPUTATION FOR PB-02

CKT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/VA/HP	AMPERES			SWITCHES			SIZES OF WIRES AND CONDUITS	CIRCUIT PROTECTION			VOLTAGE	
		L.O	C.O	OTHERS		AB	BC	AC	S1	S2	S3		3W	AT	AF		POLE
1	LIGHTING OUTLET	30			3000 W	13.6			4	1	4	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
2	LIGHTING OUTLET	35			3500 W		15.9		20	5			2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
3	LIGHTING OUTLET	37			3700 W			16.8	8	1	2	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
4	CONVENIENCE OUTLET		10		1850 W	8.4							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
5	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
6	CONVENIENCE OUTLET		15		2775 W			12.6					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
7	CONVENIENCE OUTLET		15		2775 W	12.6							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
8	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
9	CONVENIENCE OUTLET		10		1850 W			8.4					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
10	EMERGENCY LIGHTS			16	1600 W		7.3						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
11	SPARE				1000 W		4.5						2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
12	SPARE				1000 W			4.5					2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
TOTAL		102	80	16		41.9	45.7	42.4	32	7	6	4	3-30mm² THHN WIRE IN 1½" Ø RSC	100	125	3	220

LOAD COMPUTATION FOR PB-03

CKT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/VA/HP	AMPERES			SWITCHES			SIZES OF WIRES AND CONDUITS	CIRCUIT PROTECTION			VOLTAGE	
		L.O	C.O	OTHERS		AB	BC	AC	S1	S2	S3		3W	AT	AF		POLE
1	LIGHTING OUTLET	30			3000 W	13.6			4	1	4	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
2	LIGHTING OUTLET	35			3500 W		15.9		20	5			2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
3	LIGHTING OUTLET	37			3700 W			16.8	8	1	2	2	2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
4	CONVENIENCE OUTLET		10		1850 W	8.4							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
5	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
6	CONVENIENCE OUTLET		15		2775 W			12.6					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
7	CONVENIENCE OUTLET		15		2775 W	12.6							2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
8	CONVENIENCE OUTLET		15		2775 W		12.6						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
9	CONVENIENCE OUTLET		10		1850 W			8.4					2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
10	EMERGENCY LIGHTS			16	1600 W		7.3						2-3.5 MM ² THHN WIRES 1/2" Ø RSC	20	30	2	220
11	SPARE				1000 W		4.5						2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
12	SPARE				1000 W			4.5					2-5.5 MM ² THHN WIRES 1/2" Ø RSC	30	40	2	220
TOTAL		102	80	16		41.9	45.7	42.4	32	7	6	4	3-30mm² THHN WIRE IN 1½" Ø RSC	100	125	3	220

SCHEDULE OF LOADS AND COMPUTATIONS FOR MDP

PANEL DESCRIPTION	AMPERES	CIRCUIT PROTECTION			VOLTAGE
		AT	AF	POLE	
PB-01	83.89	100	125	3	220
PB-02	79.12	100	125	3	220
PB-03	79.12	100	125	3	220
TOTAL	242.13	250	300	3	220

SIZE OF SERVICE ENTRANCE

$I = [PB-01 + PB-02 + PB-03 + PB-04]$
 $= 83.89 + 79.12 + 79.12$
 $= 242.13 \text{ AMPERES}$
 USE: 3- 125 mm² THHN WIRE IN 3" Ø RSC

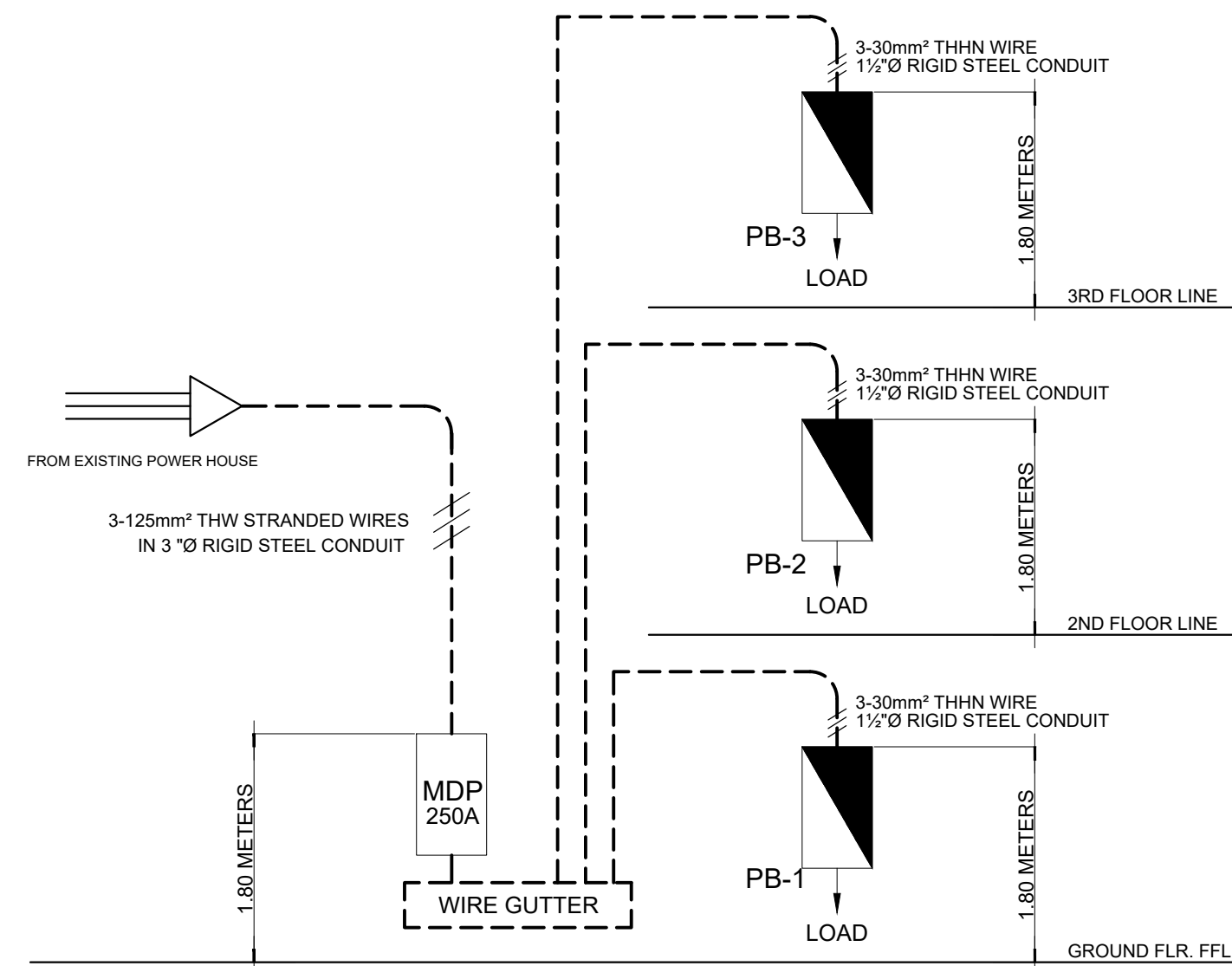
VOLTAGE DROP

@ PANELS PB-01 & PB-02
 DISTANCE FROM TAPPING POLE TO PANELS: ±28 m
 MAIN = 242.13
 $R(175\text{mm}^2) = 0.14 / \text{Km}$
 @ 25m = 0.0035 Ohms

VOLTAGE DROP = 242.13 x 0.0035
 = 0.8474676 V

VOLTAGE DROP @ MDP

VOLTS = 220 - 0.847468
 = 219.152532 V

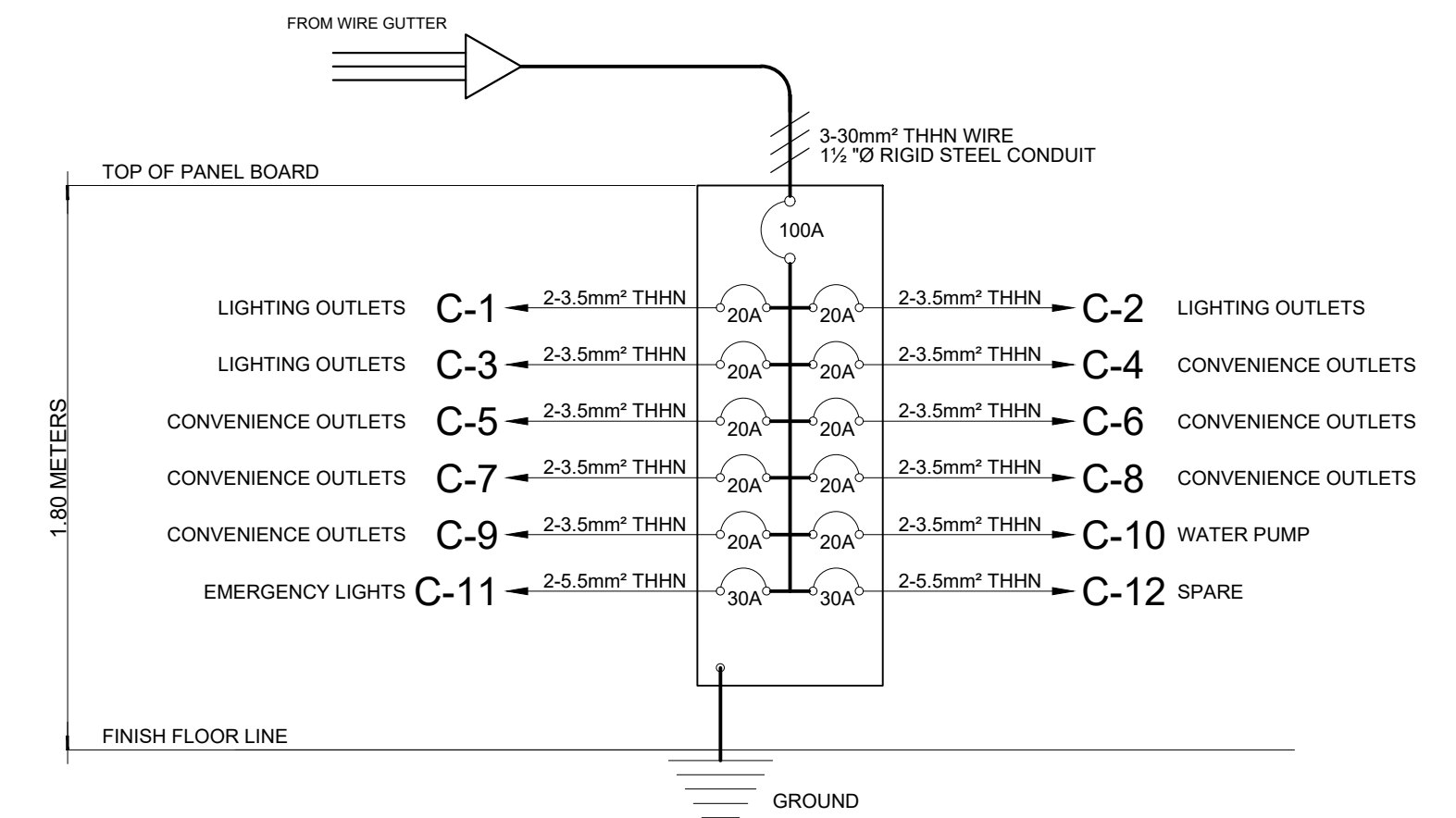


03 SCHEMATIC DIAGRAM
E-06 NTS

SIZE OF FEEDER

$\geq 48.4 \times 1.732$
 $\geq 83.892 \text{ AMPS}$

USE: 3-30mm² THHN WIRE IN 1½" Ø RSC

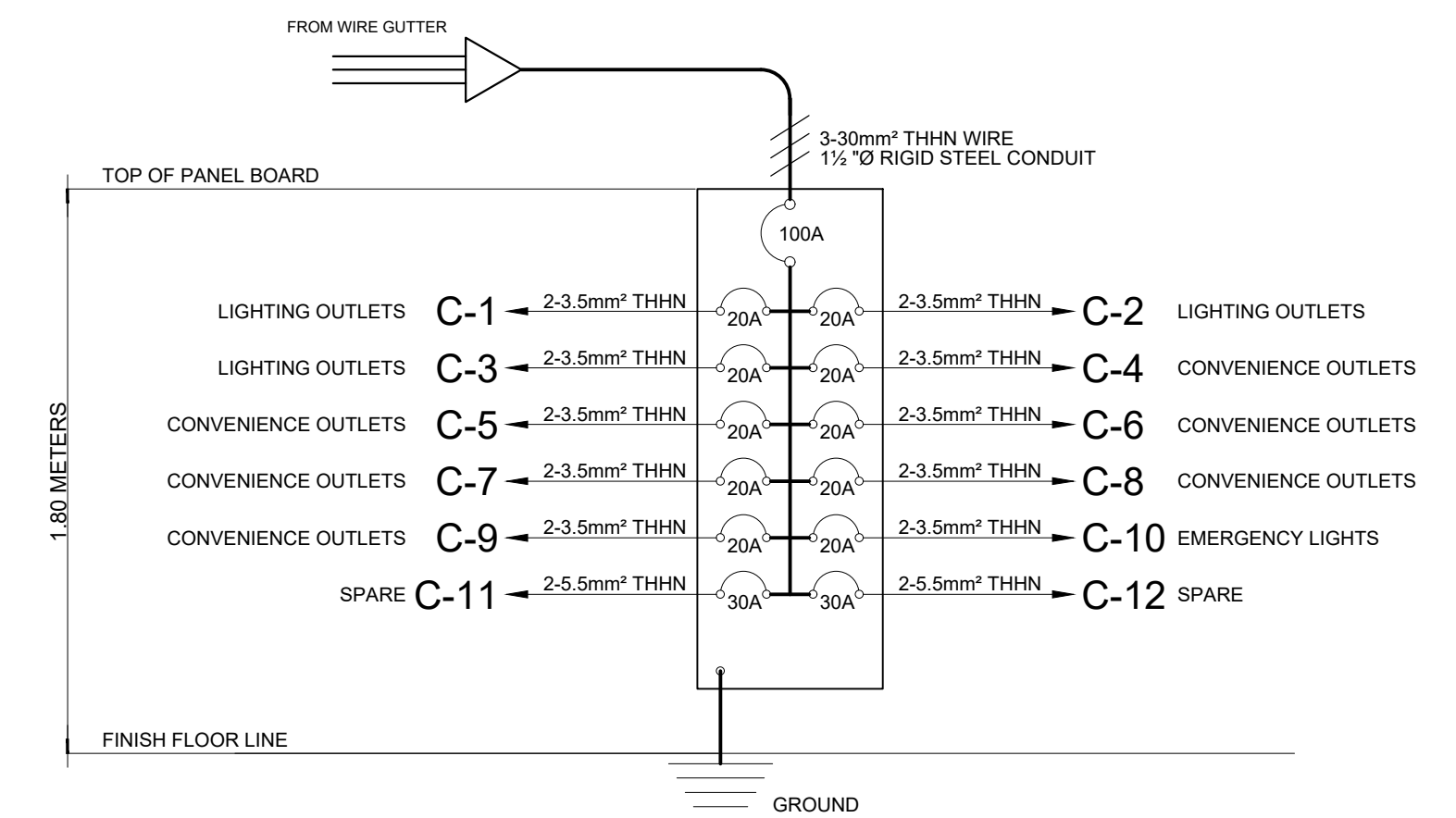


01 RISER DIAGRAM (PB-1)
E-07 NTS

SIZE OF FEEDER

$\geq 45.7 \times 1.732$
 $\geq 79.121 \text{ AMPS}$

USE: 3-30mm² THHN WIRE IN 1½" Ø RSC

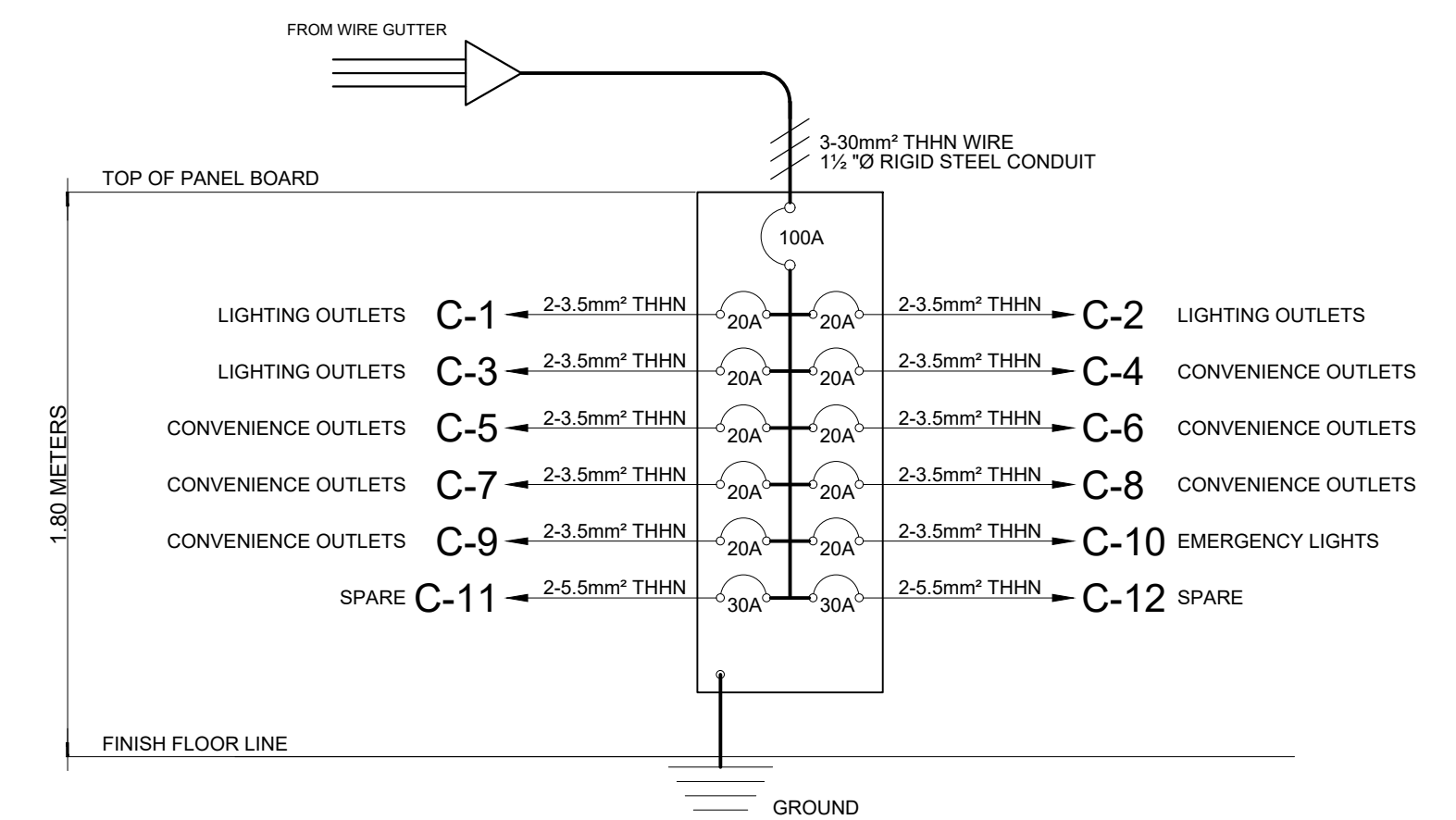


01 RISER DIAGRAM (PB-2)
E-07 NTS

SIZE OF FEEDER

$\geq 45.7 \times 1.732$
 $\geq 79.121 \text{ AMPS}$

USE: 3-30mm² THHN WIRE IN 1½" Ø RSC



01 RISER DIAGRAM (PB-3)
E-07 NTS

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DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

PRC: 8270
 VALIDITY: 08 MAY 2018
 IAPOA: 04440 141342 071615
 O.R. | DATE: 141342 | 16JULY15
 PTR: 6600933
 DATE ISS: 05 JAN 2016
 PLACE ISS: GSC
 TIN: 123-875-856

SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.

FERNANDO G. OCAT
 PROF. ELECTRICAL ENGINEER
 PRC Reg.No.: 2228 PTR No.: 6580750
 TIN No.: 130-297-471 Date: 1/04/16 Iss.: GSC

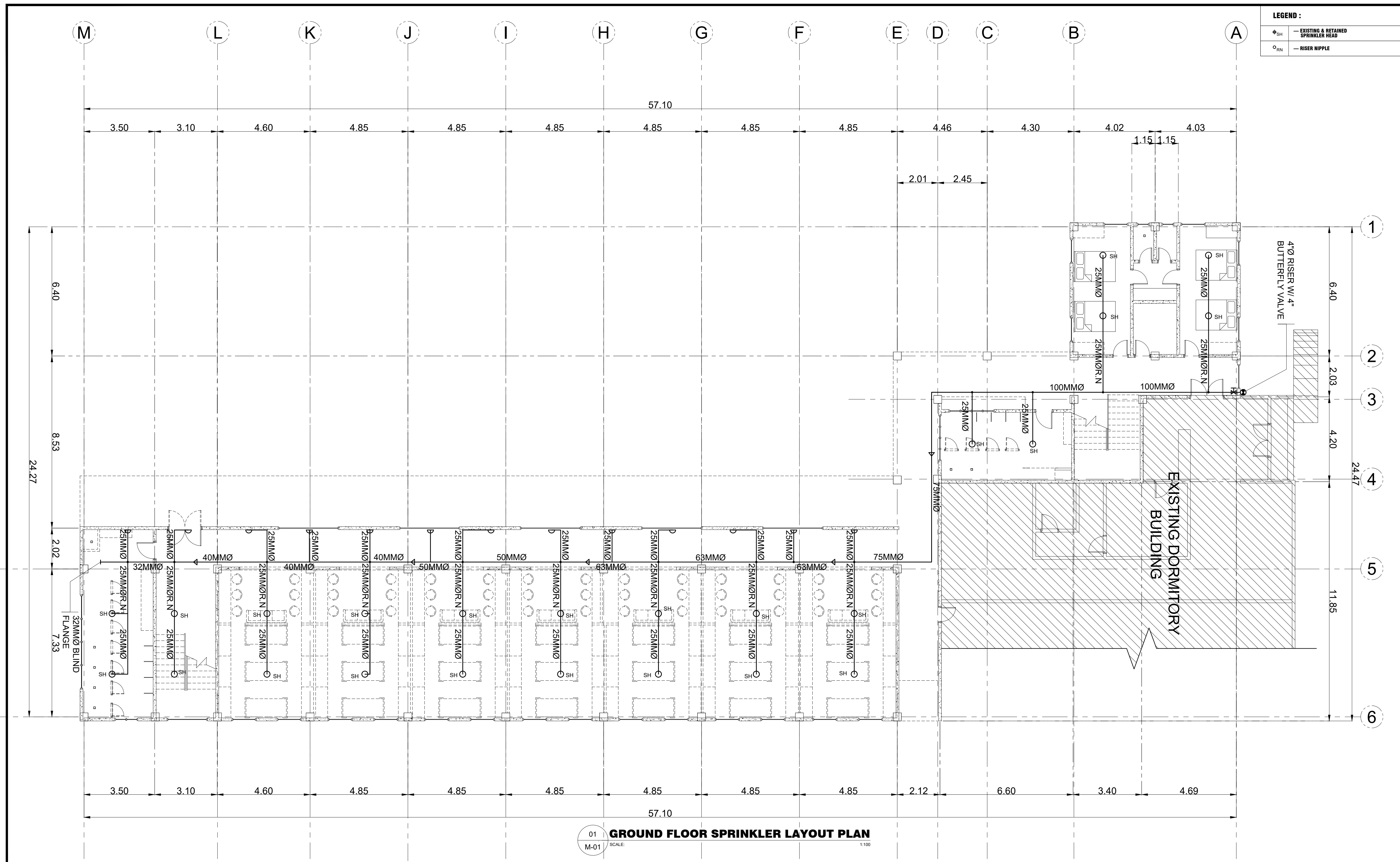
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 E-07
 28 44

LEGEND :	
◊ SH	— EXISTING & RETAINED SPRINKLER HEAD
○ RN	— RISER NIPPLE



01
M-01
GROUND FLOOR SPRINKLER LAYOUT PLAN
SCALE: 1:100

M.T. Ang
architectural designs

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DESIGNS BUILT • PLUMBING DESIGN

27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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FELIX R. CAÑIZARES
PROF. MECHANICAL ENGINEER

PRC Reg.No.: 3129 PTR No.: 6603433
TIN No.: 144-954-544 Date: 1/08/16 Iss.: GSC

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Barangay. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
DIRECTOR III

ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

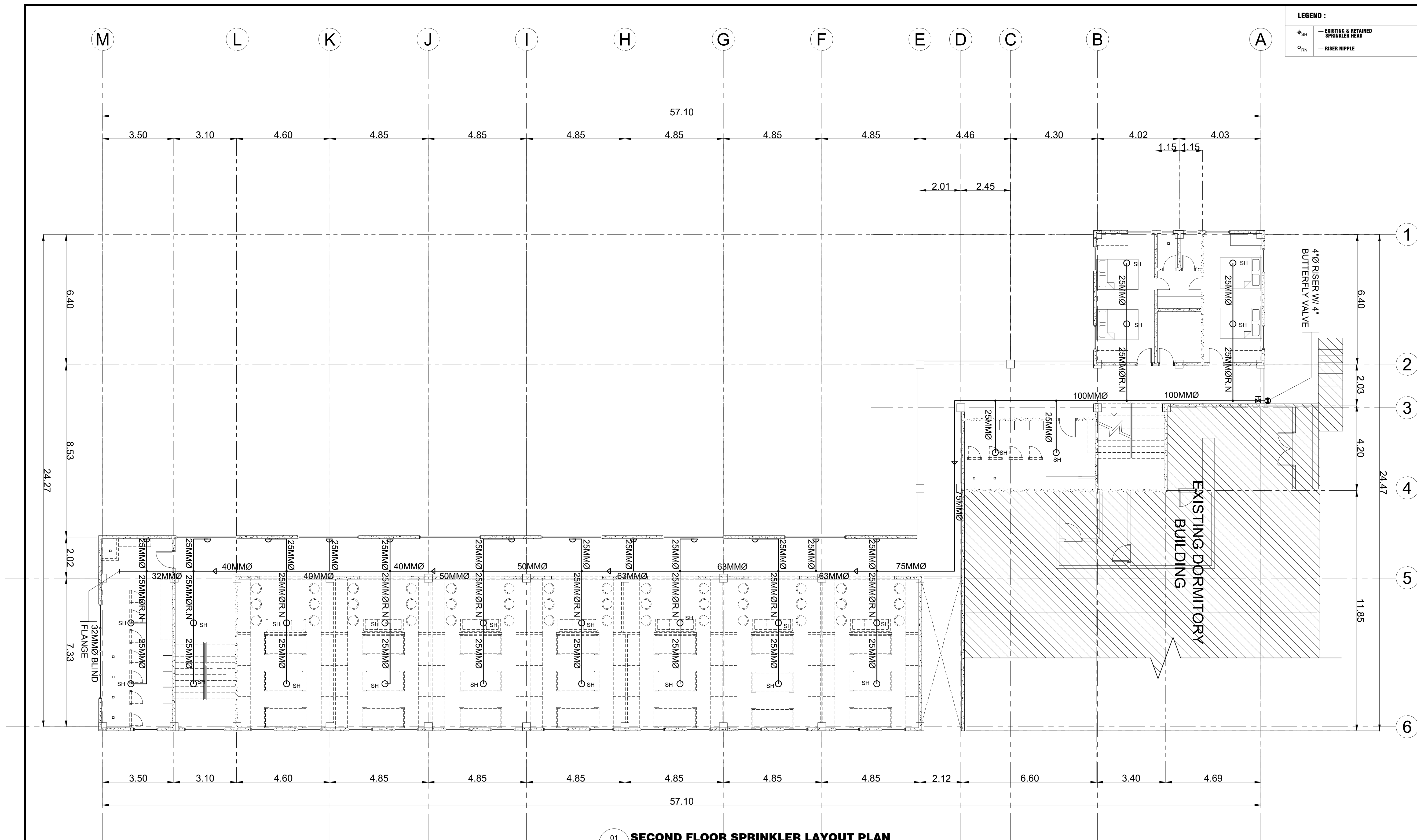
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CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.
M-01

LEGEND :

- ◊SH — EXISTING & RETAINED SPRINKLER HEAD
- RN — RISER NIPPLE



01 **SECOND FLOOR SPRINKLER LAYOUT PLAN**
M-02 SCALE: 1:100

M.T. Ang
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DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎: 301-1917

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PRC Reg.No.: 3129 PTR No.: 6603433
TIN No.: 144-954-544 Date: 1/08/16 Iss.: GSC

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Barangay. Paraiso, Koronadal City

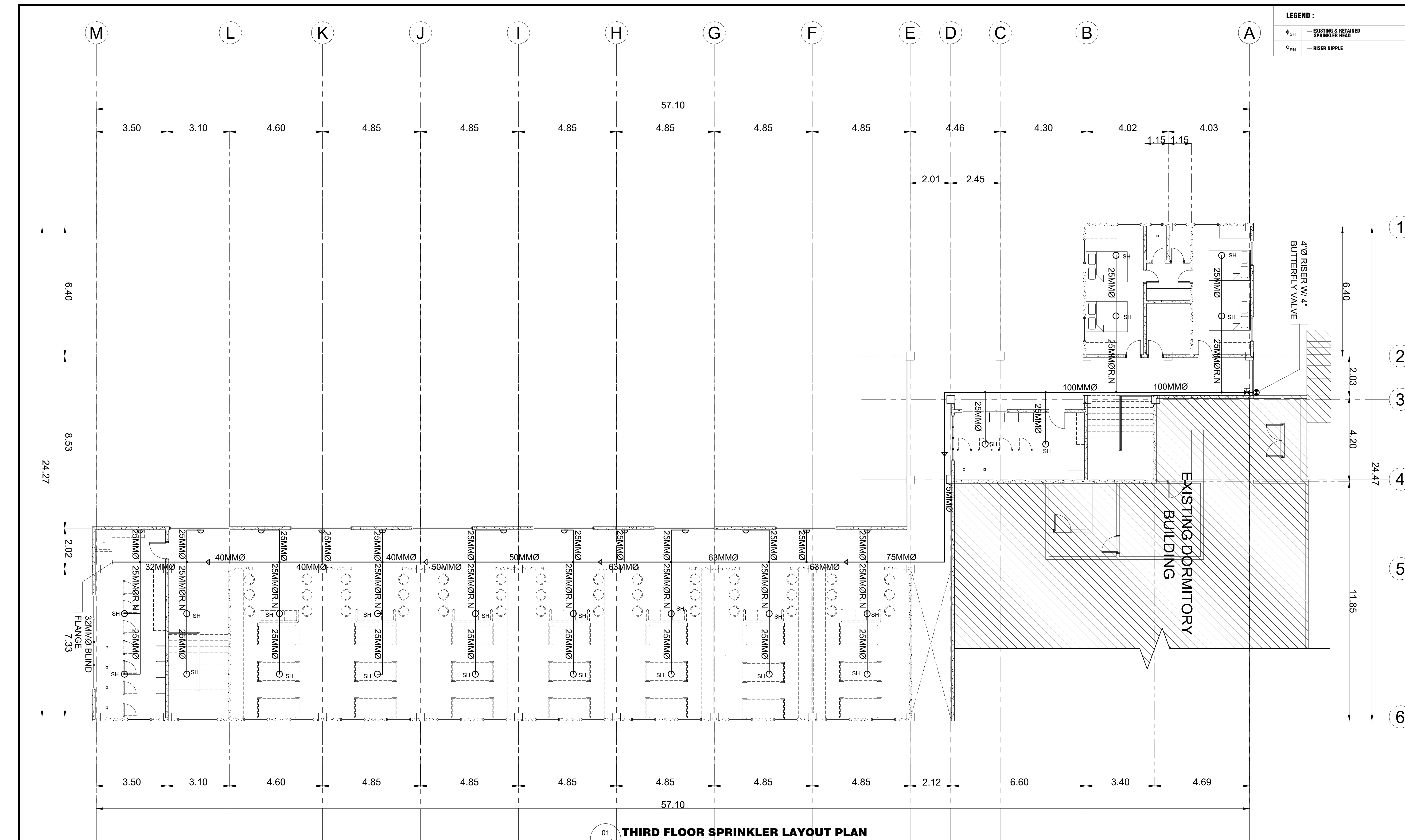
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ROSARIO P. LEONORA
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SHEET NO.
M-02

LEGEND :

- ◊ SH — EXISTING & RETAINED SPRINKLER HEAD
- RN — RISER NIPPLE



01
M-03
THIRD FLOOR SPRINKLER LAYOUT PLAN
SCALE: 1:100

M.T. Ang
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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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PRC Reg.No.: 3129 PTR No.: 6603433
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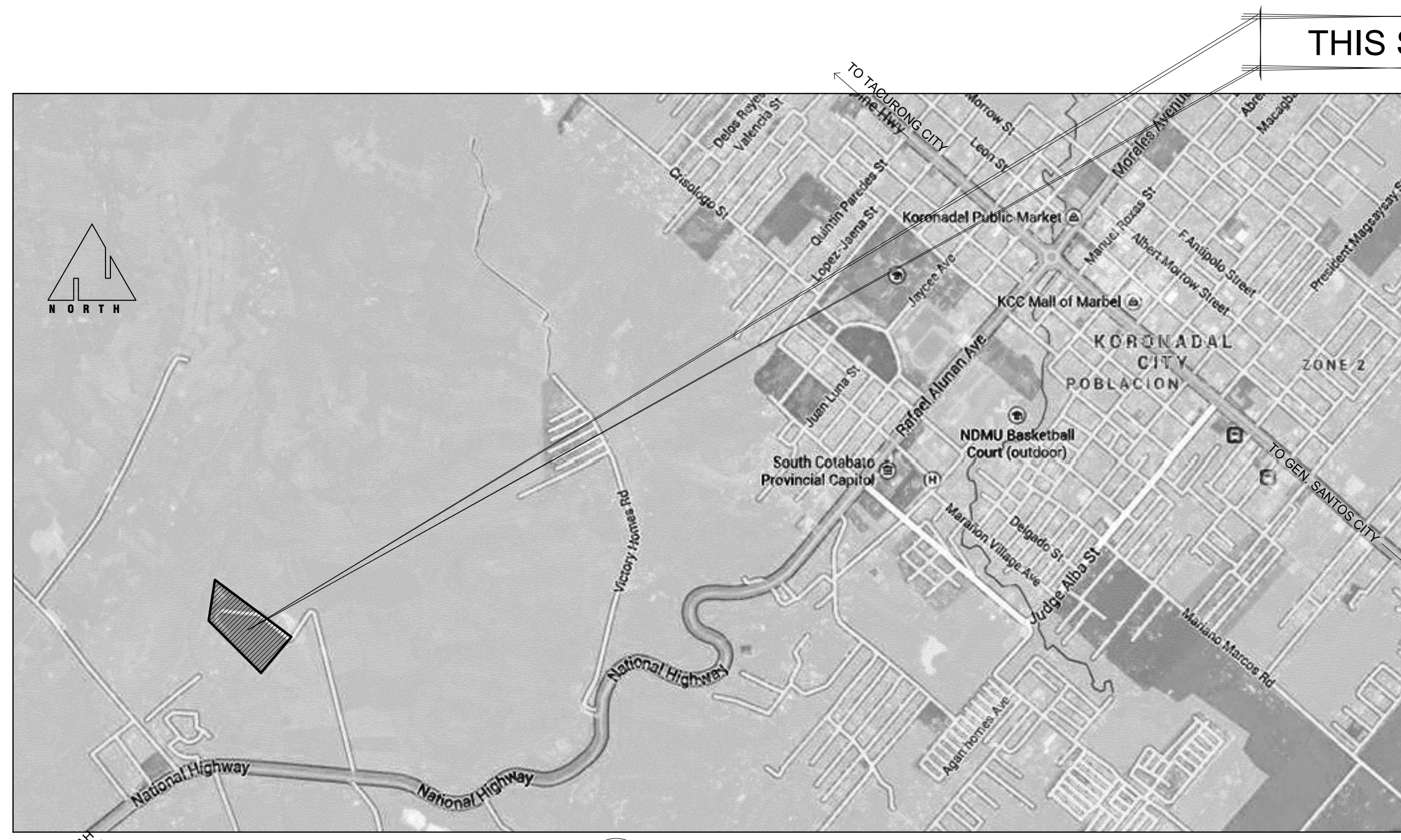
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Barangay. Paraiso, Koronadal City

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PREPARED BY:
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JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

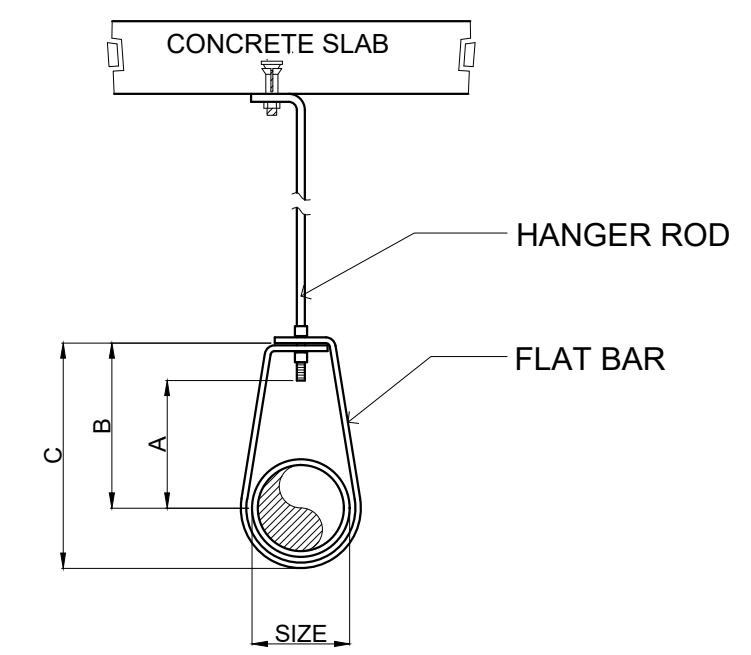
SHEET NO.
M-03

LEGEND :	
◊SH	— EXISTING & RETAINED SPRINKLER HEAD
○RN	— RISER NIPPLE



01 LOCATION PLAN
M-04 SCALE: NTS

THIS SITE



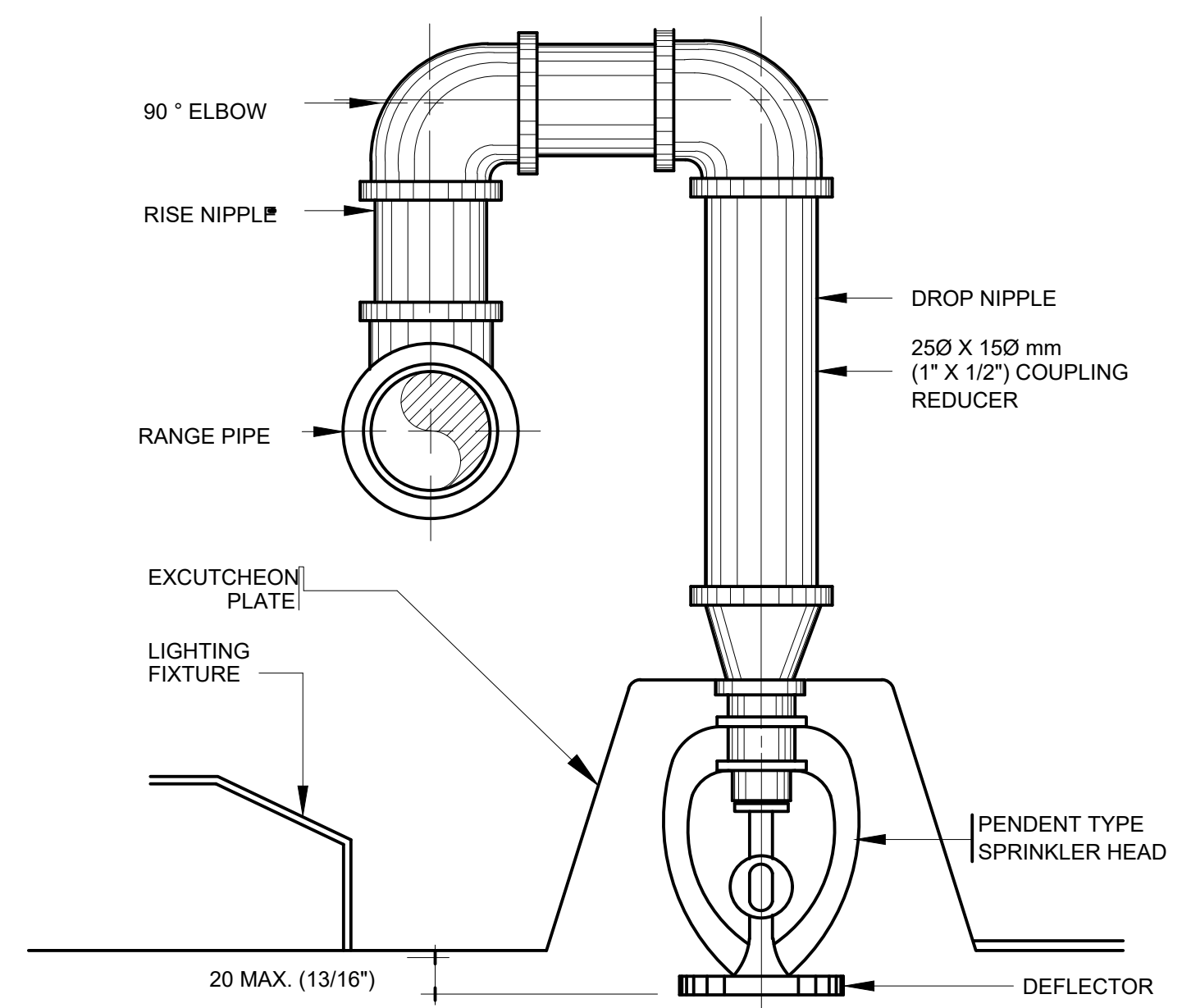
02 TYPICAL PIPE HANGER DETAILS
M-04 NTS

PIPE HANGER DIMENSION IN MM

PIPE SIZE	ROD DIA.	FLAT BAR				
		A	B	C	WIDTH	THICK
25	10	36	55	75	22	1.8
32	10	46	65	87	22	1.8
40	10	49	67	95	22	1.8
50	10	56	76	106	22	1.8
65	15	76	98	135	38	2.5
75	15	84	108	152	38	2.5

GENERAL NOTES:

1. ALL INSTALLATION SHALL FOLLOW THE PERTINENT NFPA-13 STANDARDS.
2. FOR AREAS WITH EXISTING FIRE PROTECTION SYSTEM LAYOUT, ANY DESIGN MODIFICATIONS SHALL BE SUBJECT TO MALL ADMIN APPROVAL.
3. IN AREAS WHERE NON-COMBUSTIBLE (ACOUSTIC TYPE OR THE LIKE) DROP CEILING WILL BE INSTALLED, INSTANT PENDANT TYPE SPRINKLER HEADS WITH THE SAME TYPE OR BRAND AS WHAT HAVE BEEN.
4. IN AREAS WHERE NON-COMBUSTIBLE (PLYWOOD) DROP CEILING WILL BE PENDANT TYPE SPRINKLER HEAD AND UPRIGHT TYPE SPRINKLER HEADS CONCEALED INSIDE CEILING.
5. ALL AREAS OR ROOM WITH FLOOR TO CEILING PARTITIONS SHALL HAVE PENDANT TYPE SPRINKLER HEADS.
6. INSTALL SPRINKLER RATED AT 74°C (165°F) FOR ORDINARY ROOMS. FOR KITCHEN OR OTHER AREAS WHICH HAS HEAT EMITTING EQUIPMENTS / APPLIANCES THAT WILL MAKE THE ROOM TEMPERATURE HIGHER, INSTALL SPRINKLER HEADS RATED AT LEAST 100°C (212°F).
7. DISTANCE OF SPRINKLER HEADS (PENDANT OF UPRIGHT) TO A WALL OF HIGH PARTITION MUST NOT EXCEED 2.50m.
8. MAXIMUM DISTANCE OF A SPRINKLER UNIT FROM THE SLAB SHOULD BE 300mm.
9. MAXIMUM COVERAGE OF ONE SPRINKLER HEAD (PENDANT OR UPRIGHT TYPE) IS EQUIVALENT TO A ROOM WITH DIMENSIONS OF 3.00 x 3.00 m (AREA). IRREGULAR CEILING OR CEILING WITH OBSTRUCTION (NOT FLAT) SHALL BE SUBJECT TO THE FIRE PROTECTION CONSULTANT APPROVAL.
10. MAXIMUM DISTANCE OF A SPRINKLER HEAD TO WALL OR PARTITION SHALL BE 1.50m.
11. FIRE PIPE LINES SHALL BE BLACK IRON (B.I.) PIPES, SCHEDULE 40 WITH FIRST AND FINAL COATING OF SAFETY RED PAINT. FITTINGS SHALL CONFORM WITH ASTM, A 53/A153.



03 PENDANT SPRINKLER HEAD
M-04 NOT TO SCALE

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

PRC:	8270
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TIN No.: 144-854-544 Date: 1/08/16 Iss.: GSC

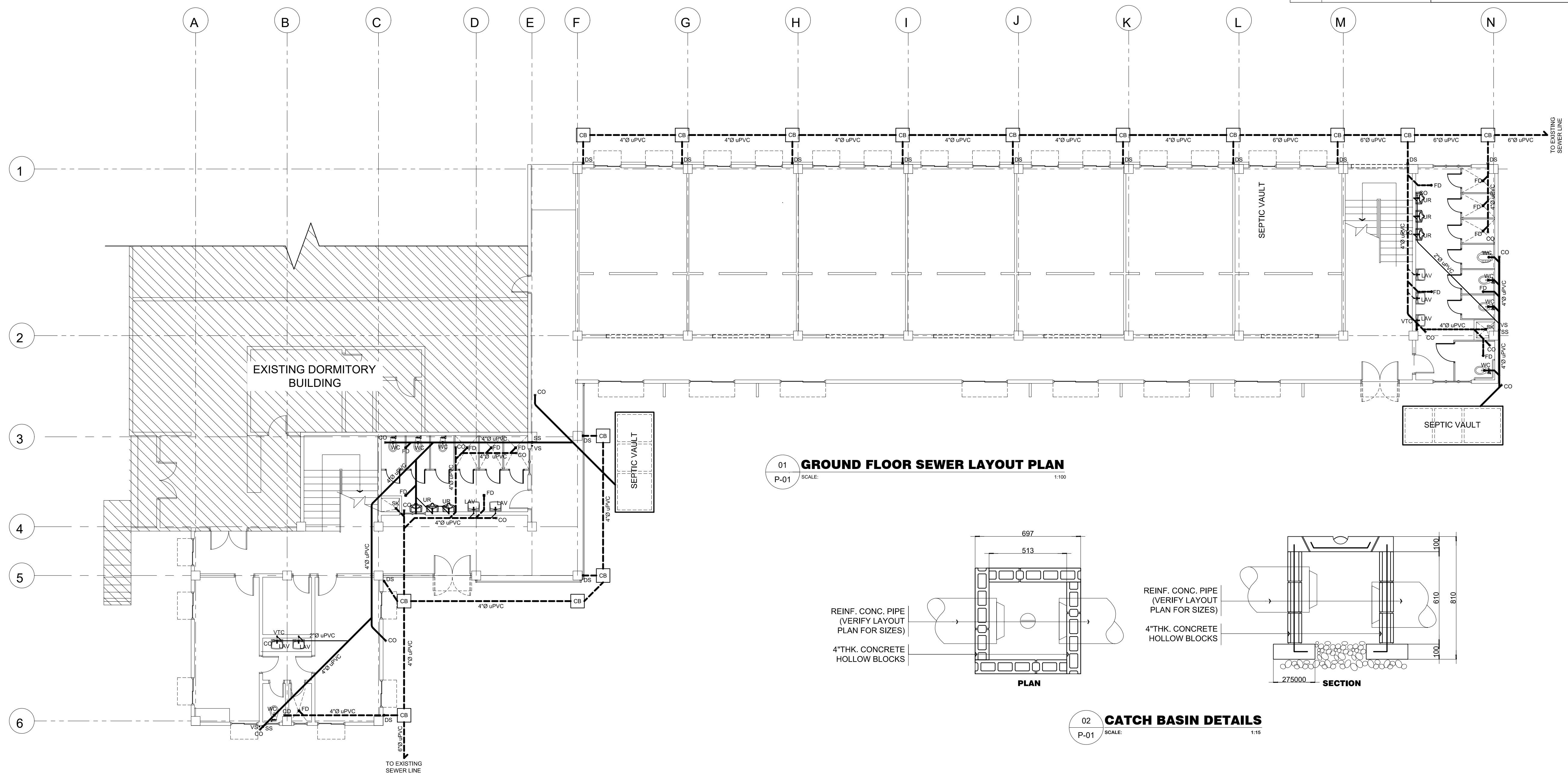
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Barangay. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

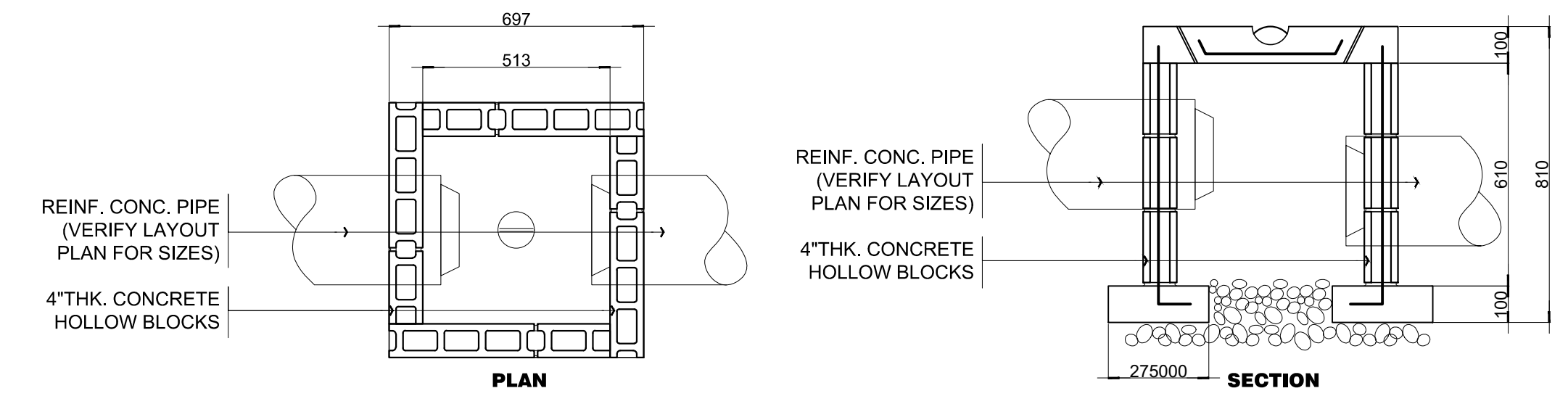
PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY :
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.
M-04

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 GROUND FLOOR SEWER LAYOUT PLAN
P-01 SCALE: 1:100



02 CATCH BASIN DETAILS
P-01 SCALE: 1:15

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

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MICHAEL T. ANG
MASTER PLUMBER
PRC Reg.No.: 2174 PTR No.: 6600934
TIN No.: 123-875-856 Date: 01/05/16

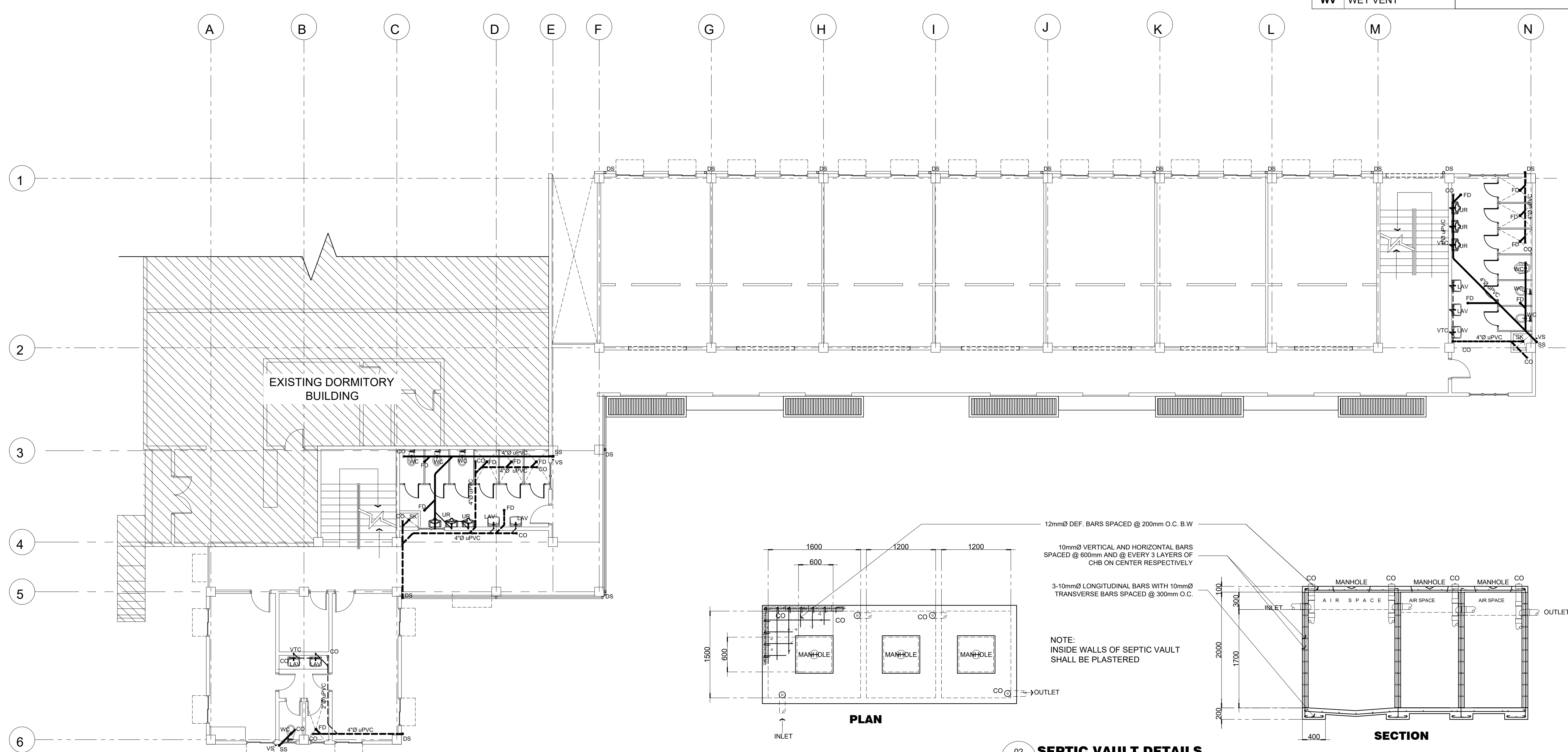
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.	
P-01	
33	44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 **SECOND FLOOR SEWER LAYOUT PLAN**
SCALE: 1:100

02 **SEPTIC VAULT DETAILS**
SCALE: 1:40

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

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MICHAEL T. ANG
MASTER PLUMBER
PRC Reg.No.: 2174 PTR No.: 6600934
TIN No.: 123-875-856 Date: 01/05/16

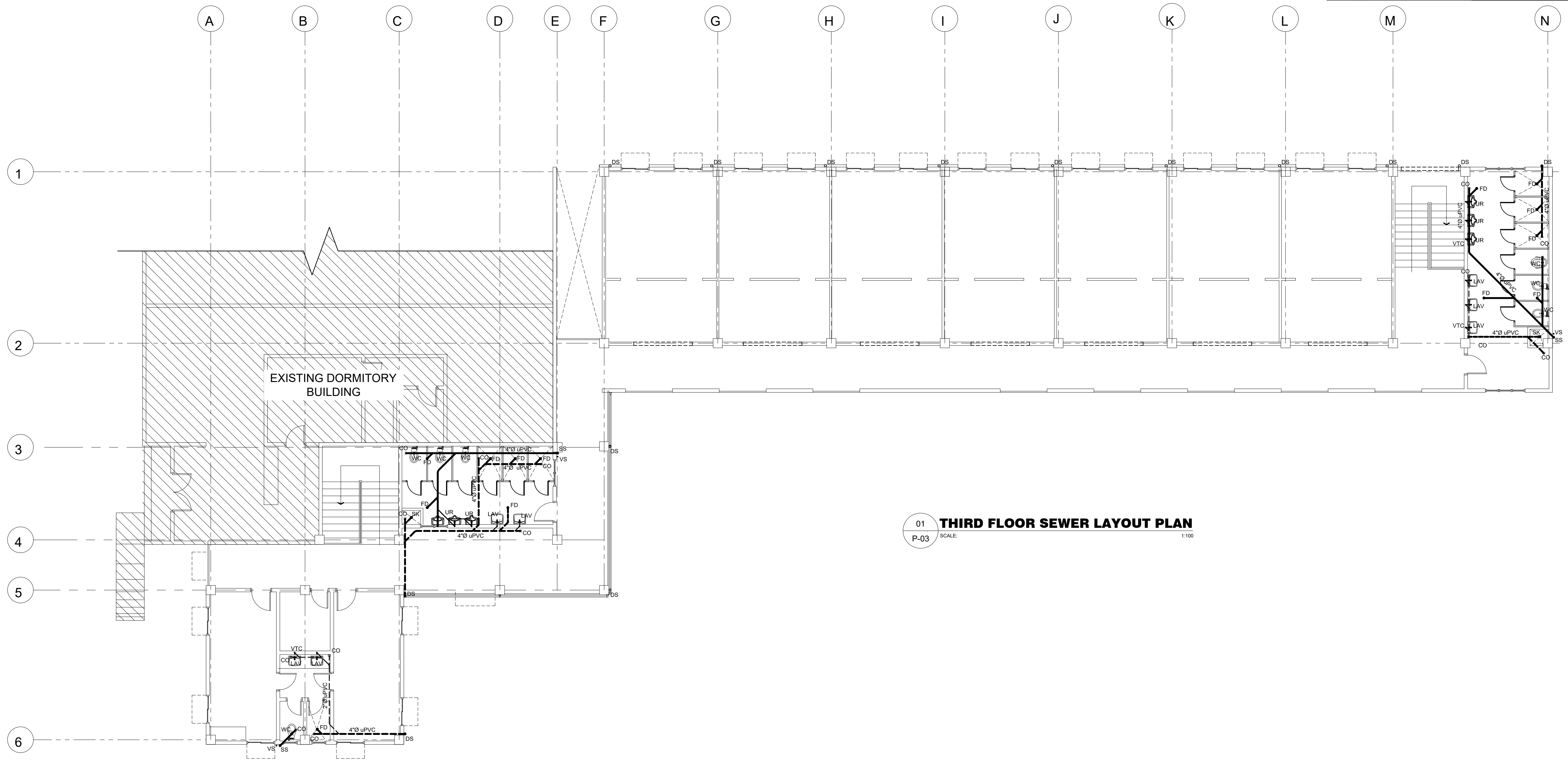
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.	
P-02	
34	44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 **THIRD FLOOR SEWER LAYOUT PLAN**
 P-03 SCALE: 1:100

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 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
 ARCHITECT

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MICHAEL T. ANG
 MASTER PLUMBER
 PRC Reg.No.: 2174 PTR No.: 6600934
 TIN No.: 123-875-856 Date: 01/05/16

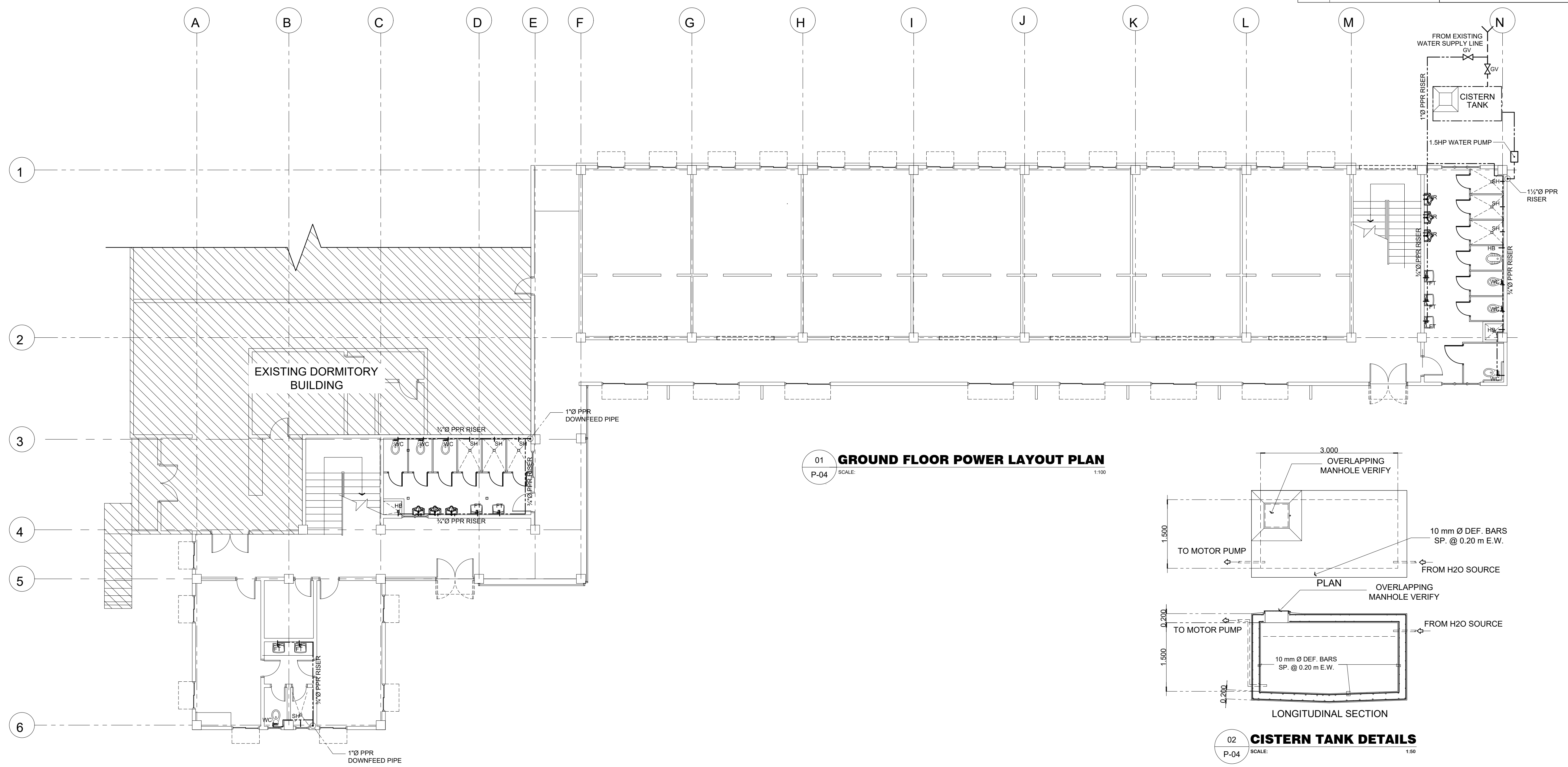
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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 RESIDENT ENGINEER

SHEET NO.
 P-03
 35 44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



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architectural designs

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DESIGNS BUILT • PLUMBING DESIGN

27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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MICHAEL T. ANG
MASTER PLUMBER

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PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
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DIRECTOR III

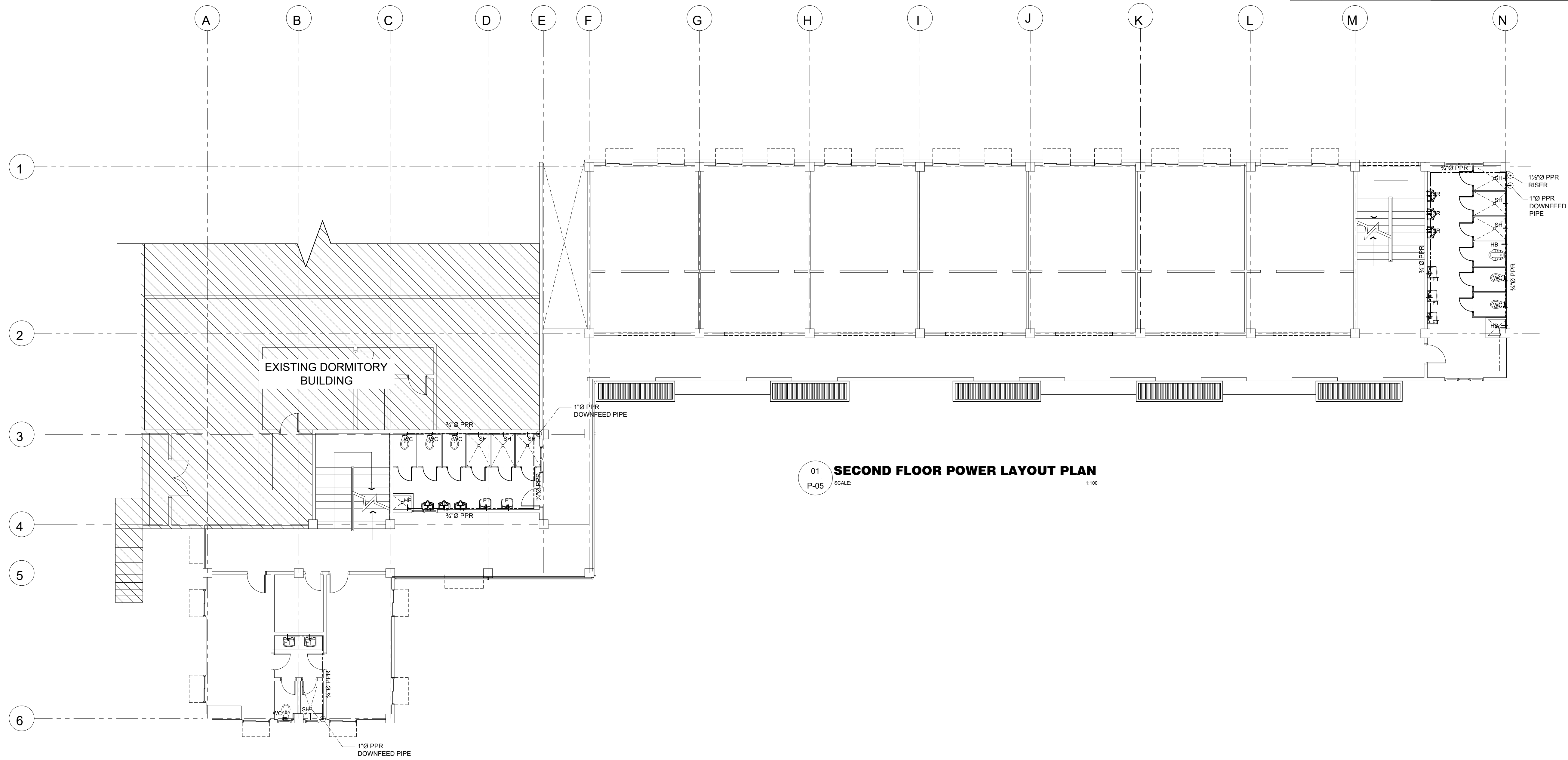
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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CHECKED BY:
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.	
P-04	
36	44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 **SECOND FLOOR POWER LAYOUT PLAN**
 P-05 SCALE: 1:100

M.T. Ang
 architectural designs
 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
 ARCHITECT

PRC:	8270
VALIDITY:	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE:	141342 16JULY15
PTR:	6600933
DATE ISS:	05 JAN 2016
PLACE ISS:	GSC
TIN:	123-875-856

SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed party or in whole, without the written consent of architect or author of said documents.

MICHAEL T. ANG
 MASTER PLUMBER
 PRC Reg.No.: 2174 PTR No.: 6600934
 TIN No.: 123-875-856 Date: 01/05/16

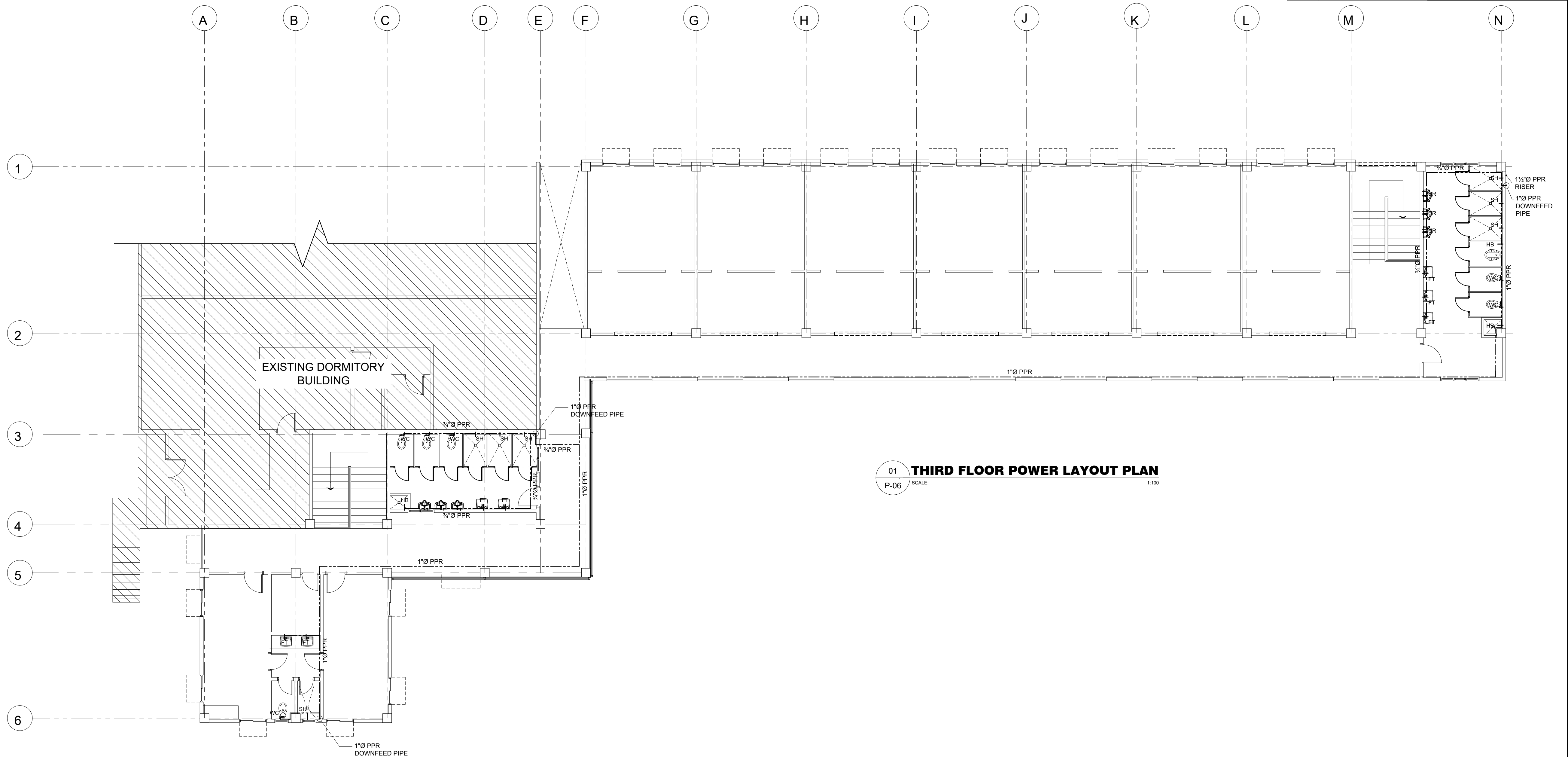
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
P-05
37 44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



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PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
DESIGNS BUILT • PLUMBING DESIGN

27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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MICHAEL T. ANG
MASTER PLUMBER

PRC Reg.No.:	2174	PTR No.:	6600934
TIN No.:	123-875-856	Date:	01/05/16

PROJECT TITLE / LOCATION

PROPOSED DORMITORY BUILDING II
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY

CHUCHI P. GARGANERA, PH. D.
DIRECTOR III

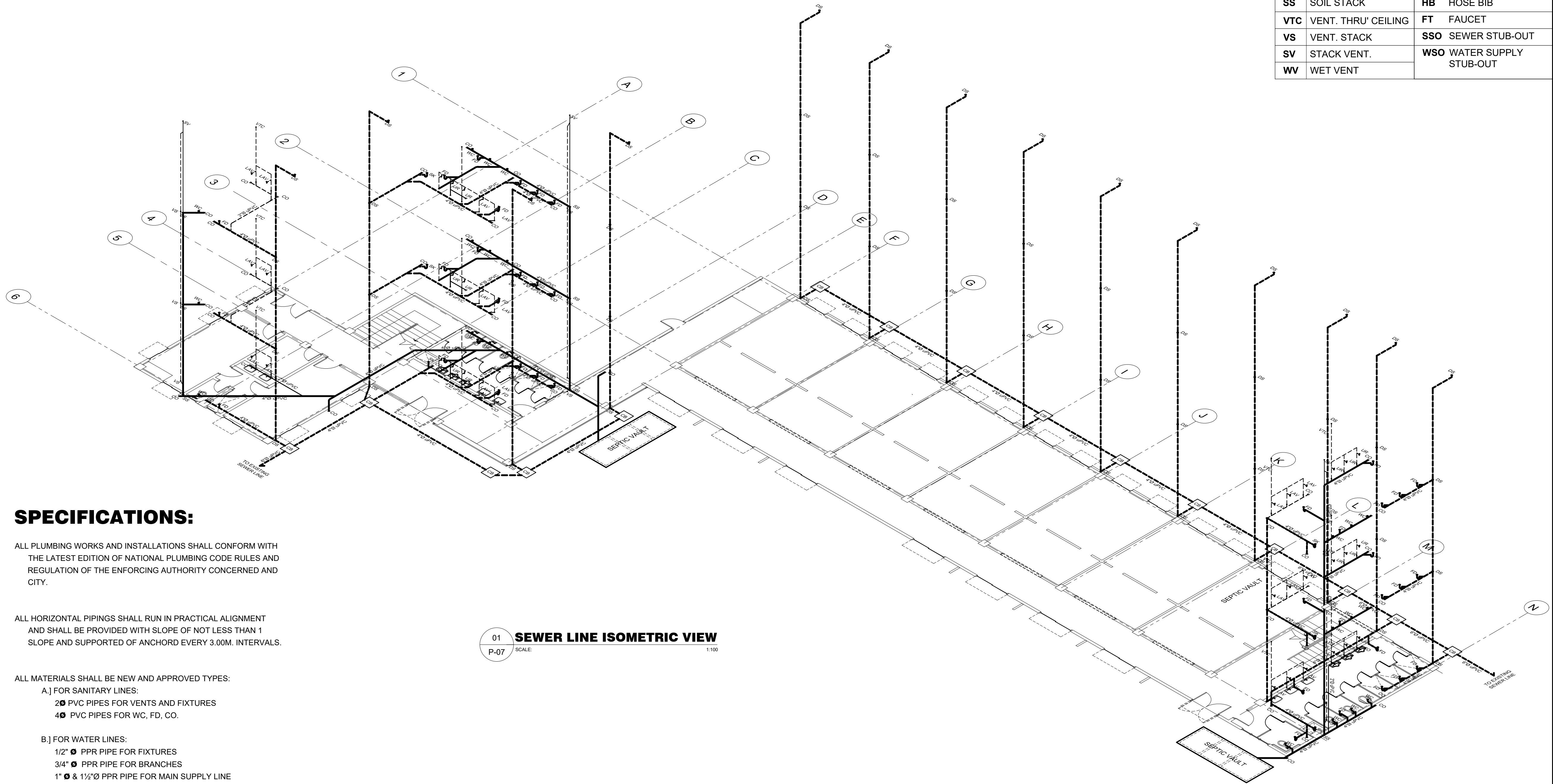
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT

CHECKED BY :
ROSARIO P. LEONORA
RESIDENT ENGINEER

SHEET NO.	
P-06	
38	44

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
VTC	VENT. THRU' CEILING	FT	FAUCET
VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 SEWER LINE ISOMETRIC VIEW
P-07 SCALE: 1:100

SPECIFICATIONS:

ALL PLUMBING WORKS AND INSTALLATIONS SHALL CONFORM WITH THE LATEST EDITION OF NATIONAL PLUMBING CODE RULES AND REGULATION OF THE ENFORCING AUTHORITY CONCERNED AND CITY.


ALL HORIZONTAL PIPINGS SHALL RUN IN PRACTICAL ALIGNMENT AND SHALL BE PROVIDED WITH SLOPE OF NOT LESS THAN 1 SLOPE AND SUPPORTED OF ANCHORD EVERY 3.00M. INTERVALS.

ALL MATERIALS SHALL BE NEW AND APPROVED TYPES:

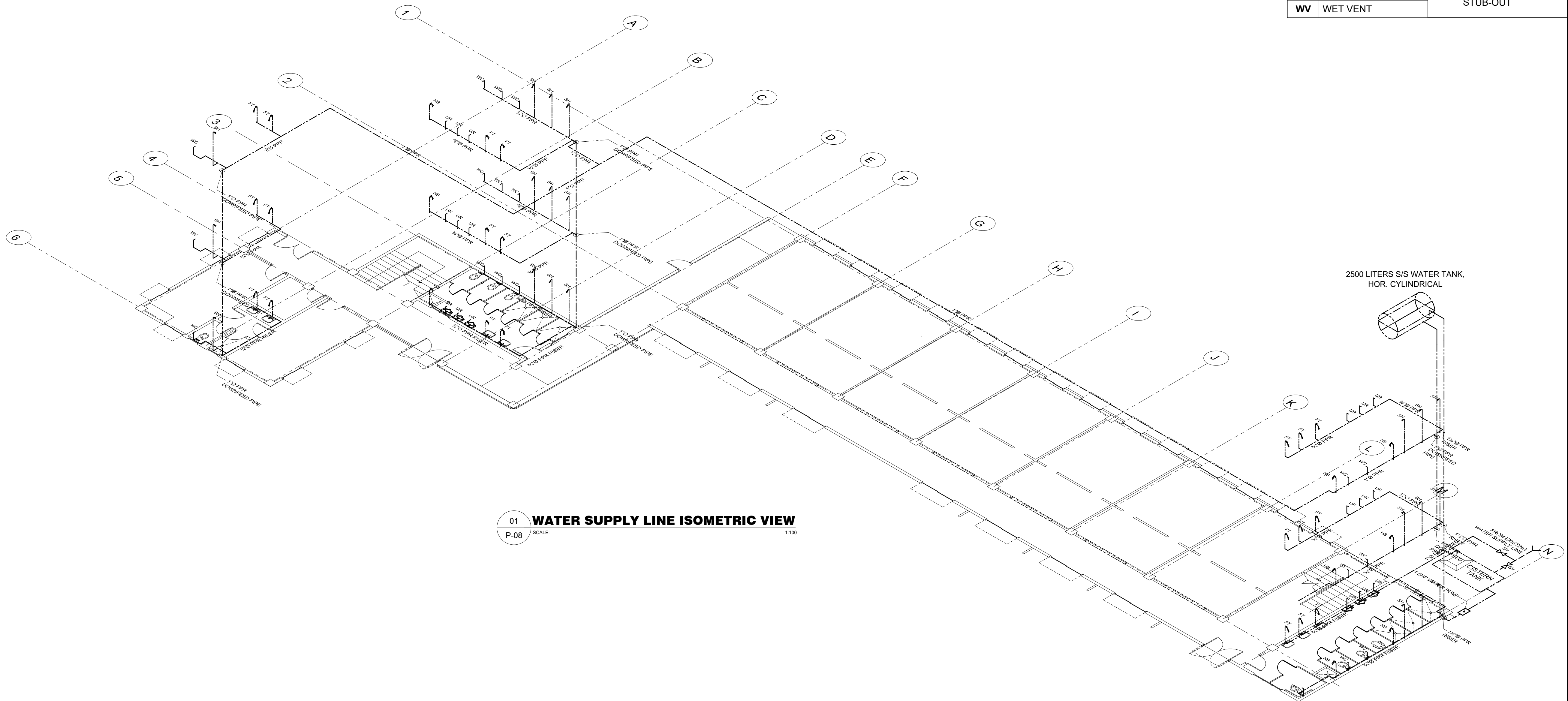
- A.] FOR SANITARY LINES:
 - 2" PVC PIPES FOR VENTS AND FIXTURES
 - 4" PVC PIPES FOR WC, FD, CO.

- B.] FOR WATER LINES:
 - 1/2" PPR PIPE FOR FIXTURES
 - 3/4" PPR PIPE FOR BRANCHES
 - 1" & 1 1/2" PPR PIPE FOR MAIN SUPPLY LINE

ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE STRICTLY SUPERVISED BY A DULY REGISTERED MASTER PLUMBER.

 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT • DESIGNS BUILT • PLUMBING DESIGN 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917	MICHAEL T. ANG, fuap ARCHITECT	PRC: 8270 VALIDITY: 08 MAY 2018 IAPOA: 04440 141342 071615 O.R. DATE: 141342 16JULY15 PTR: 6600933 DATE ISS: 05 JAN 2016 PLACE ISS: GSC TIN: 123-875-856	SECTION 33 of RA 9266 Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.	MICHAEL T. ANG MASTER PLUMBER PRC Reg.No.: 2174 PTR No.: 6600934 TIN No.: 123-875-856 Date: 01/05/16	PROJECT TITLE / LOCATION PROPOSED DORMITORY BUILDING II PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	APPROVED BY CHUCHI P. GARGANERA, PH. D. DIRECTOR III ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	PREPARED BY: RANILE ESPINA CORDOVA, uap JUNIOR ARCHITECT CHECKED BY : ROSARIO P. LEONORA RESIDENT ENGINEER	SHEET NO. P-07 39 44
		FILE NAME: MTA16-004-PHILsci_Dorm-electrical1.dwg February 16, 2016						

LEGEND :			
WC	WATER CLOSET	FV	FIXTURE VENT
LAV	LAVATORY	SK	SLOP SINK
KS	KITCHEN SINK	DS	DOWN SPOUTS
FD	FLOOR DRAIN	RD	ROOF DRAIN
UR	URINAL	CO	CLEAN OUT
SS	SOIL STACK	HB	HOSE BIB
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VS	VENT. STACK	SSO	SEWER STUB-OUT
SV	STACK VENT.	WSO	WATER SUPPLY STUB-OUT
WV	WET VENT		



01 WATER SUPPLY LINE ISOMETRIC VIEW
 P-08 SCALE: 1/100

M.T. Ang
 architectural designs
 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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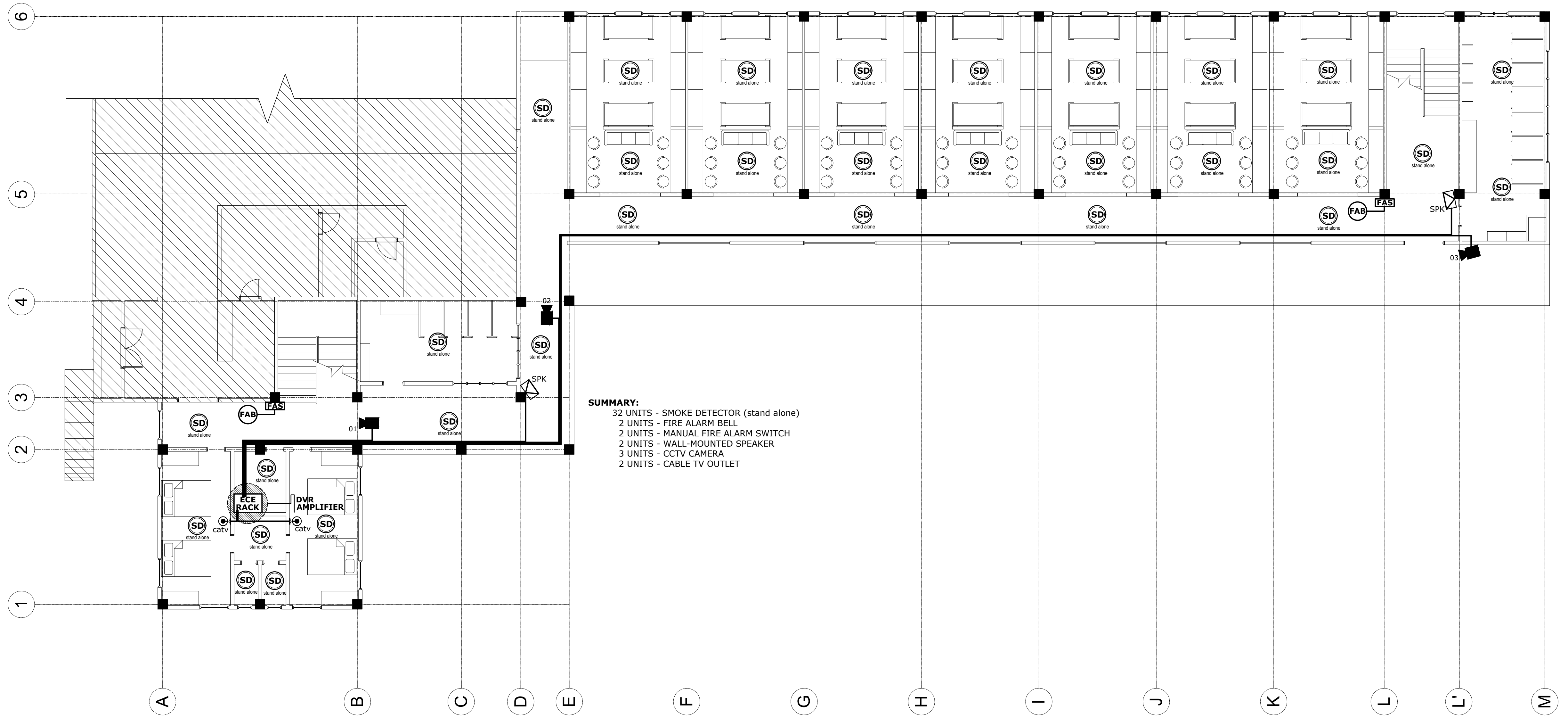
MICHAEL T. ANG
 MASTER PLUMBER
 PRC Reg.No.: 2174 PTR No.: 6600934
 TIN No.: 123-875-856 Date: 01/05/16

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 JUNIOR ARCHITECT
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 P-08
 40 44



SUMMARY:
 32 UNITS - SMOKE DETECTOR (stand alone)
 2 UNITS - FIRE ALARM BELL
 2 UNITS - MANUAL FIRE ALARM SWITCH
 2 UNITS - WALL-MOUNTED SPEAKER
 3 UNITS - CCTV CAMERA
 2 UNITS - CABLE TV OUTLET

GROUND FLOOR LAYOUT PLAN
SECURITY, FIRE ALARM, PAS & AUX. LAYOUT
 01 ECE-01 SCALE: 1:100

LEGEND/SYMBOLS/ ABBREVIATIONS:

	- CCTV CAMERA		- FIRE ALARM BELL
	- DIGITAL VIDEO RECORDER		- FIRE ALARM SWITCH (manual switch)
	- CONTAINS DVR, AMPLIFIER & CatV SIGNAL BOX		- AMPLIFIER
	- GROUNDING		- WALL-MOUNTED SPEAKER
	- SERVICE ENTRANCE		- PUBLIC ADDRESS
	- STAND ALONE SMOKE DETECTOR		- CABLE TV OUTLET

M.T. Ang
 architectural designs
 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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DARWIN D. NISPEROS, IECEP PROF. ELECTRONICS & COMM. ENGR.	
PRC: 0472, 2016	IECEP No.: 09-09657, 2018
PTR No.: 6595691	DATE: 01/08/16
ISS. AT: G.S.C.	TIN No.: 169-824-299

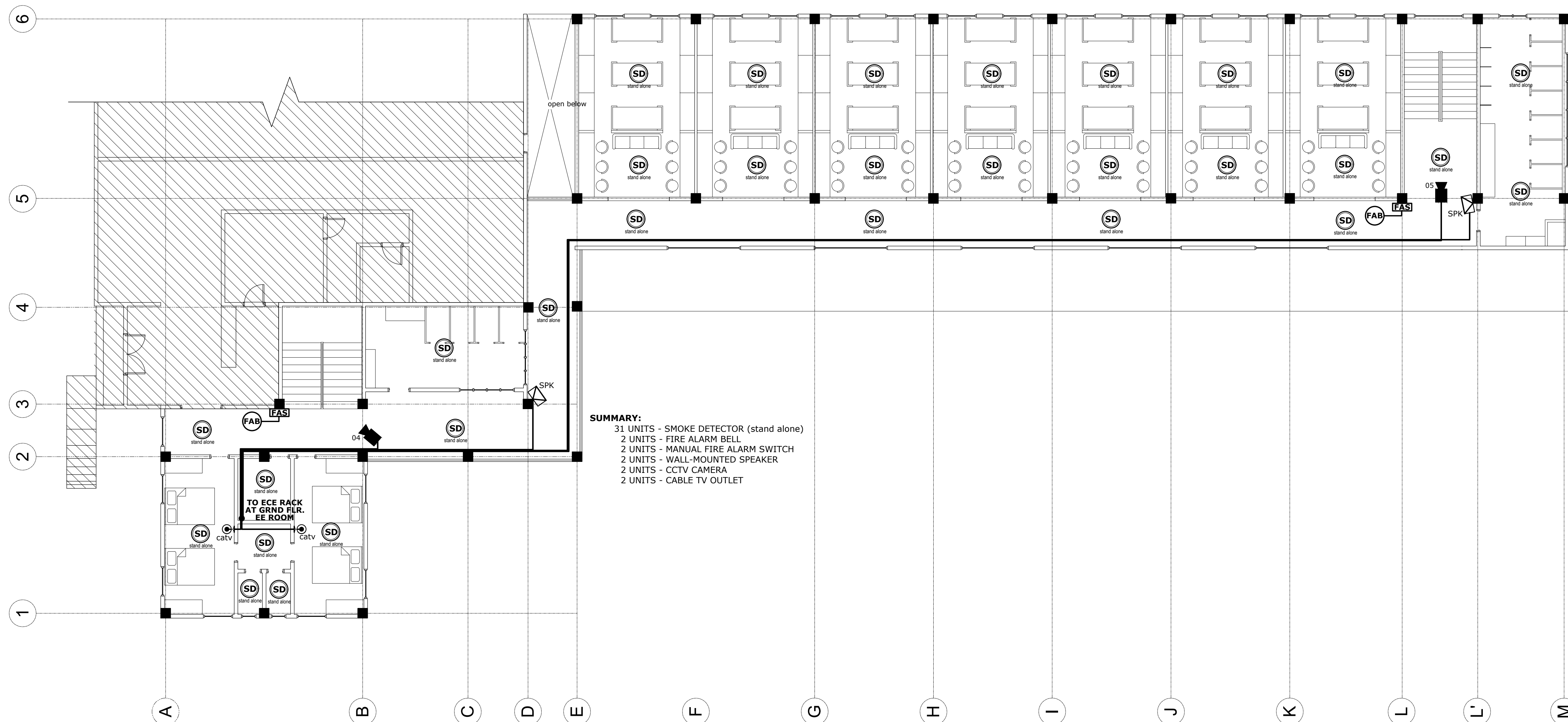
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
DARWIN D. NISPEROS
 PROF. ELECTRONICS & COMM. ENGR.
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.

ECE-01	
41	44



SUMMARY:
 31 UNITS - SMOKE DETECTOR (stand alone)
 2 UNITS - FIRE ALARM BELL
 2 UNITS - MANUAL FIRE ALARM SWITCH
 2 UNITS - WALL-MOUNTED SPEAKER
 2 UNITS - CCTV CAMERA
 2 UNITS - CABLE TV OUTLET

01
ECE-02 SCALE: 1:100
SECOND FLOOR LAYOUT PLAN
SECURITY, FIRE ALARM, PAS & AUX. LAYOUT

LEGEND/SYMBOLS/ ABBREVIATIONS:

	- CCTV CAMERA		- FIRE ALARM BELL
	- DIGITAL VIDEO RECORDER		- FIRE ALARM SWITCH (manual switch)
	- CONTAINS DVR, AMPLIFIER & CatV SIGNAL BOX		- AMPLIFIER
	- GROUNDING		- WALL-MOUNTED SPEAKER
	- SERVICE ENTRANCE		- PUBLIC ADDRESS
	- STAND ALONE SMOKE DETECTOR		- CABLE TV OUTLET

M.T. Ang
 architectural designs
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 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
 ARCHITECT

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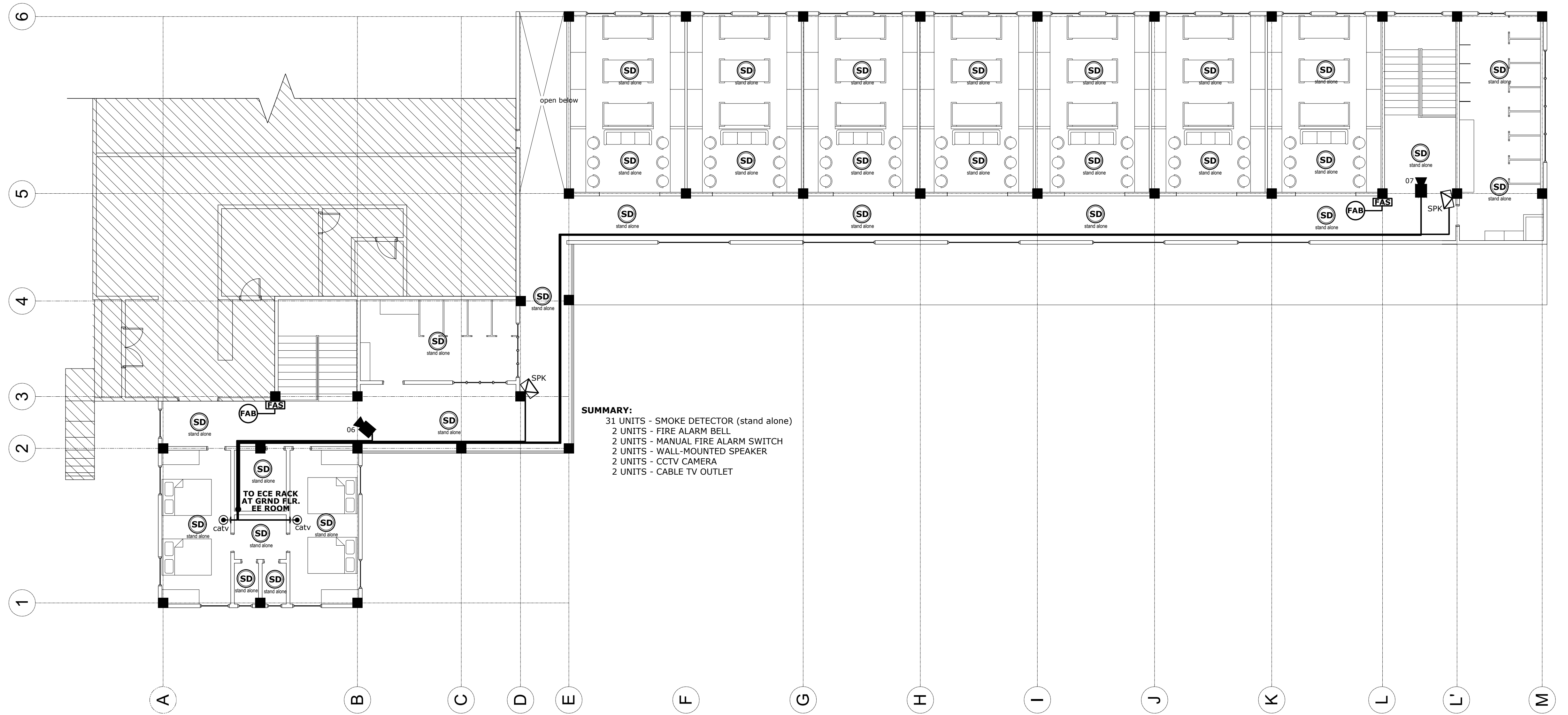
DARWIN D. NISPEROS, IECEP
 PROF. ELECTRONICS & COMM. ENGR.
 PRC: 0472, 2016 IECEP No.: 09-09657, 2018
 PTR No.: 6595691 DATE: 01/08/16
 ISS. AT: G.S.C. TIN No.: 169-824-299

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
DARWIN D. NISPEROS
 PROF. ELECTRONICS & COMM. ENGR.
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.
 ECE-02
 42 44



THIRD FLOOR LAYOUT PLAN
SECURITY, FIRE ALARM, PAS & AUX. LAYOUT

01
ECE-03

SCALE:

1:100

LEGEND/SYMBOLS/ ABBREVIATIONS:

	- CCTV CAMERA		- FIRE ALARM BELL
	- DIGITAL VIDEO RECORDER		- FIRE ALARM SWITCH (manual switch)
	- CONTAINS DVR, AMPLIFIER & CatV SIGNAL BOX		- AMPLIFIER
	- GROUNDING		- WALL-MOUNTED SPEAKER
	- SERVICE ENTRANCE		- PUBLIC ADDRESS
	- STAND ALONE SMOKE DETECTOR		- CABLE TV OUTLET

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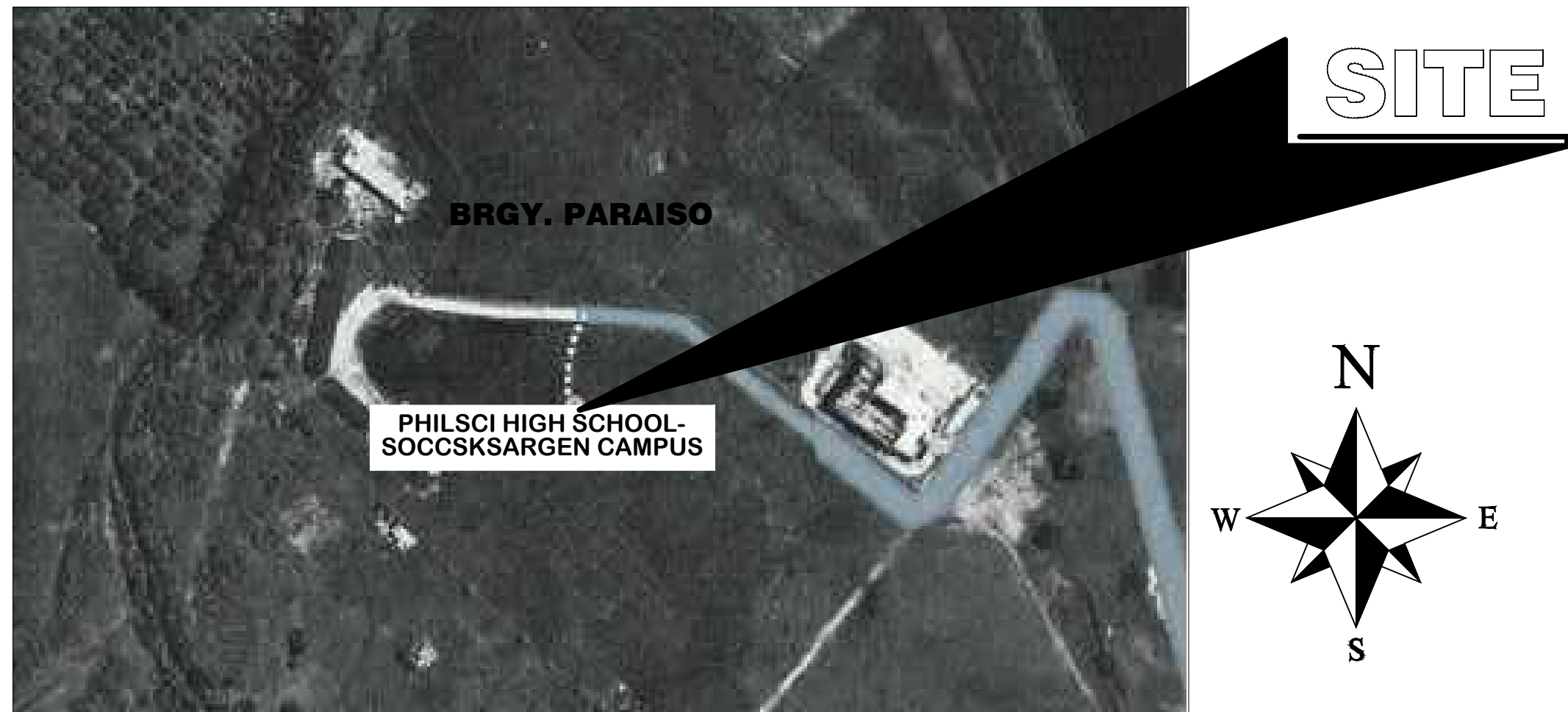
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING II
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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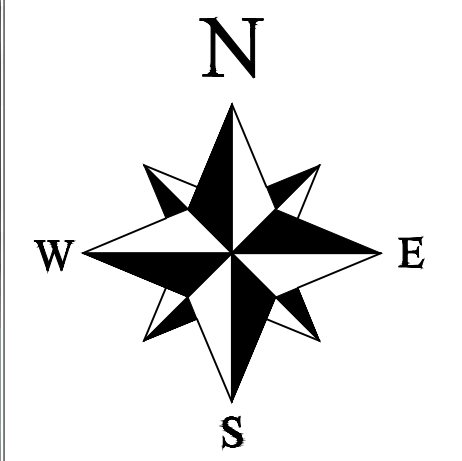
PREPARED BY:
DARWIN D. NISPEROS
 PROF. ELECTRONICS & COMM. ENGR.
CHECKED BY:
ROSARIO P. LEONORA
 RESIDENT ENGINEER

SHEET NO.

ECE-03	
43	44



01 LOCATION MAP
 ECE-04 SCALE: NTS

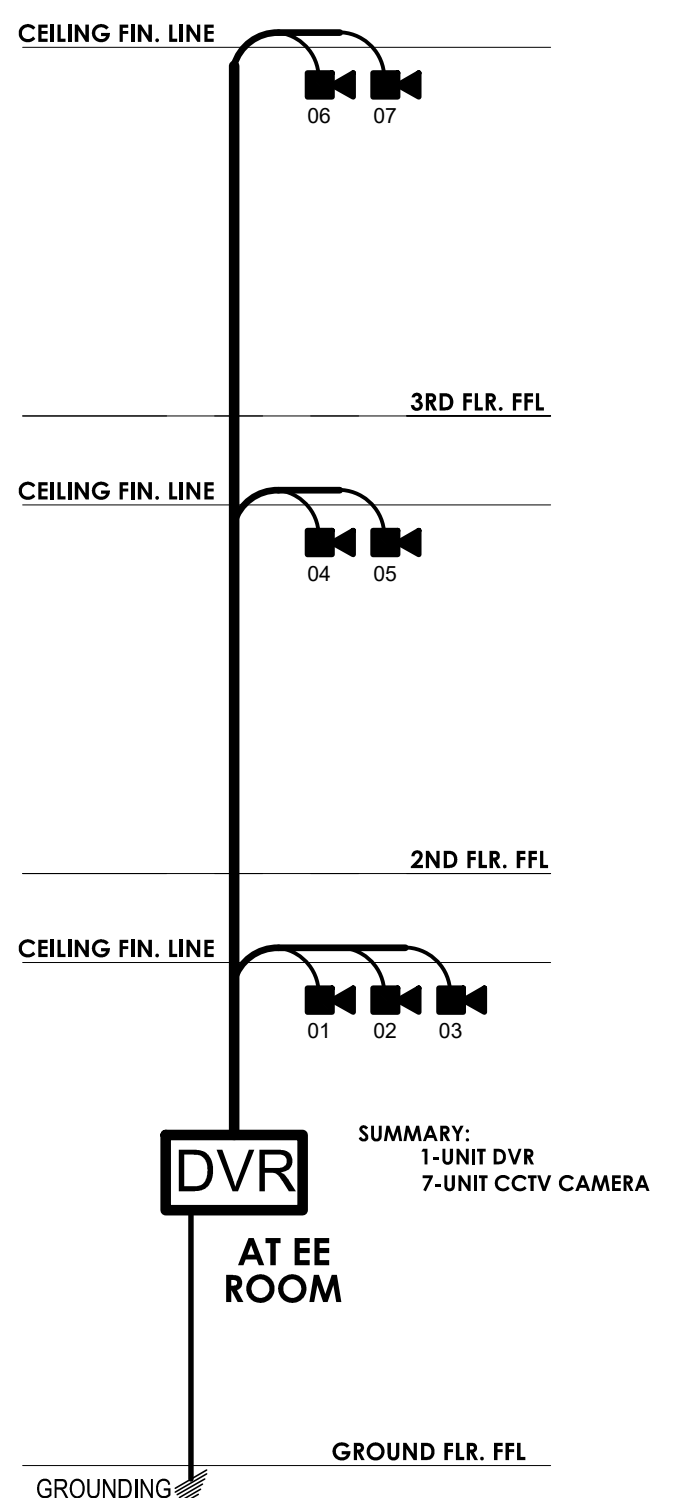


ELECTRONIC NOTES:

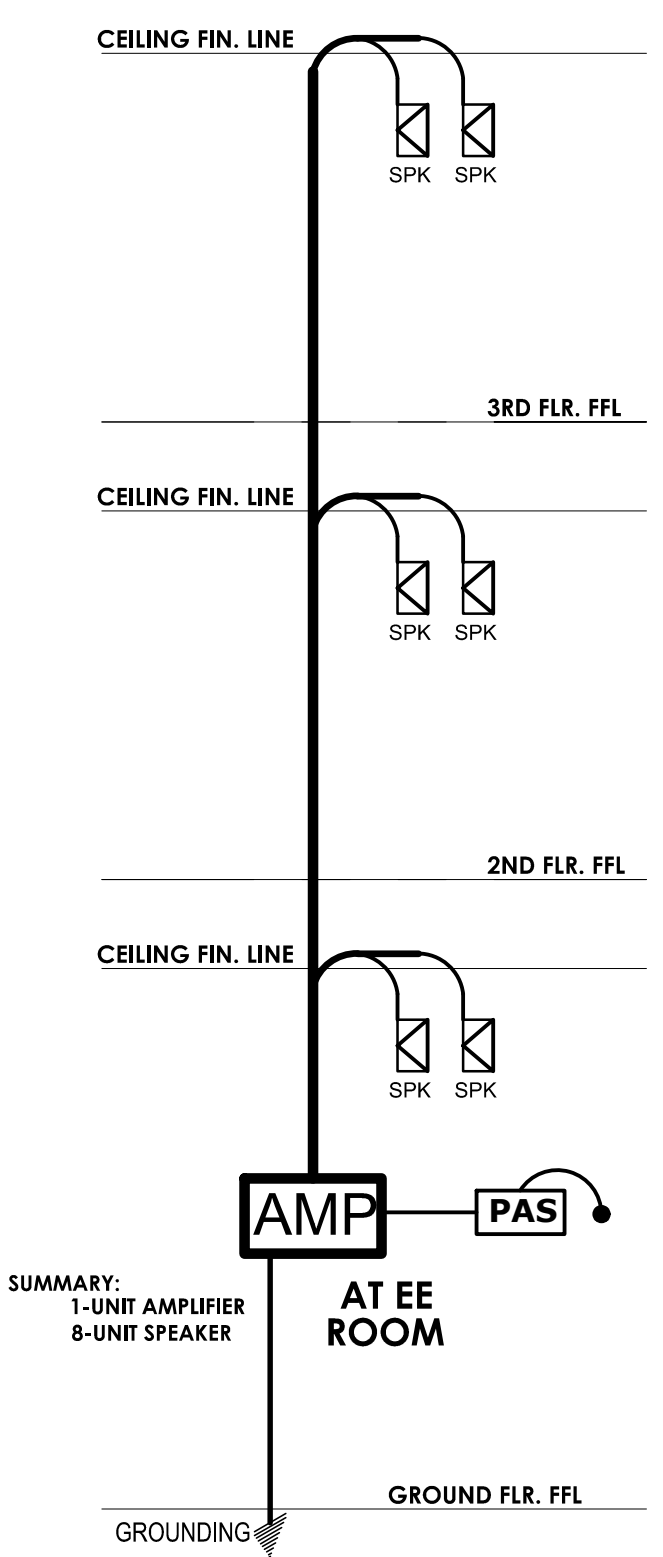
- ALL ELECTRONIC WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHIL. ELECTRONIC CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE POWER COMPANY.
- ALL ELECTRONIC WORKS INCLUDED HEREIN SHALL BE EXECUTED BY ELECTRONIC TECHNICIAN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED/PROF. ELECTRONIC AND COMMUNICATION ENGINEER. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO COMMUNICATION SUPPLY.
- ALL MATERIALS SHALL BE BRAND NEW AND SHALL CONFORM WITH THE PROVISIONS OF THE UNDERWRITERS' LABORATORIES INC. IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.
- ALL CONDUITS MUST BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF WATER AND FOREIGN MATTERS DURING CONSTRUCTION. ALL ENDS OF CONDUITS SHALL BE PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
- UNLESS OTHERWISE SPECIFIED, ALL ELECTRONIC WIRING INSTALLATION SHALL BE USED RSC PIPE. THE MINIMUM SIZE OF CONDUIT SHALL BE 15mm Ø.
- ALL OUTLET BOXES SHALL BE GALVANIZED GA. 16, DEEP-TYPE WITH FACTORY KNOCKOUTS. PULLBOXES SHALL BE USED WHEN APPLICABLE FOR EASY PULLING OF WIRES AND SHALL BE IN ACCORDANCE WITH THE PHILIPPINE ELECTRONIC CODE REQUIREMENTS PREFERRED BRAND FOR JUNCTION, PULLBOX OR UTILITY SQUARE BOXES SHALL BE FUMACO, AMCU, TIMCO, OR APPROVED EQUAL.
- MOUNTING HEIGHTS OF DEVICES SHALL BE: (SUBJECT TO ARCHITECT'S APPROVAL PRIOR TO INSTALLATION), DATA OUTLET SHALL BE 0.30m ABOVE FINISHED FLOOR TO CENTER OF DEVICE.
- THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND THE DETAILS AND SHOWN CONDITION AS ACCURATELY AS IT IS POSSIBLE TO INDICATE THEM IN SCALE, THE PLANS ARE DIAGRAMMATICAL AND DOES NOT NECESSARY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATIONS OF OUTLETS, APPARATUS AND APPLIANCES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE.

GENERAL SPECIFICATIONS:

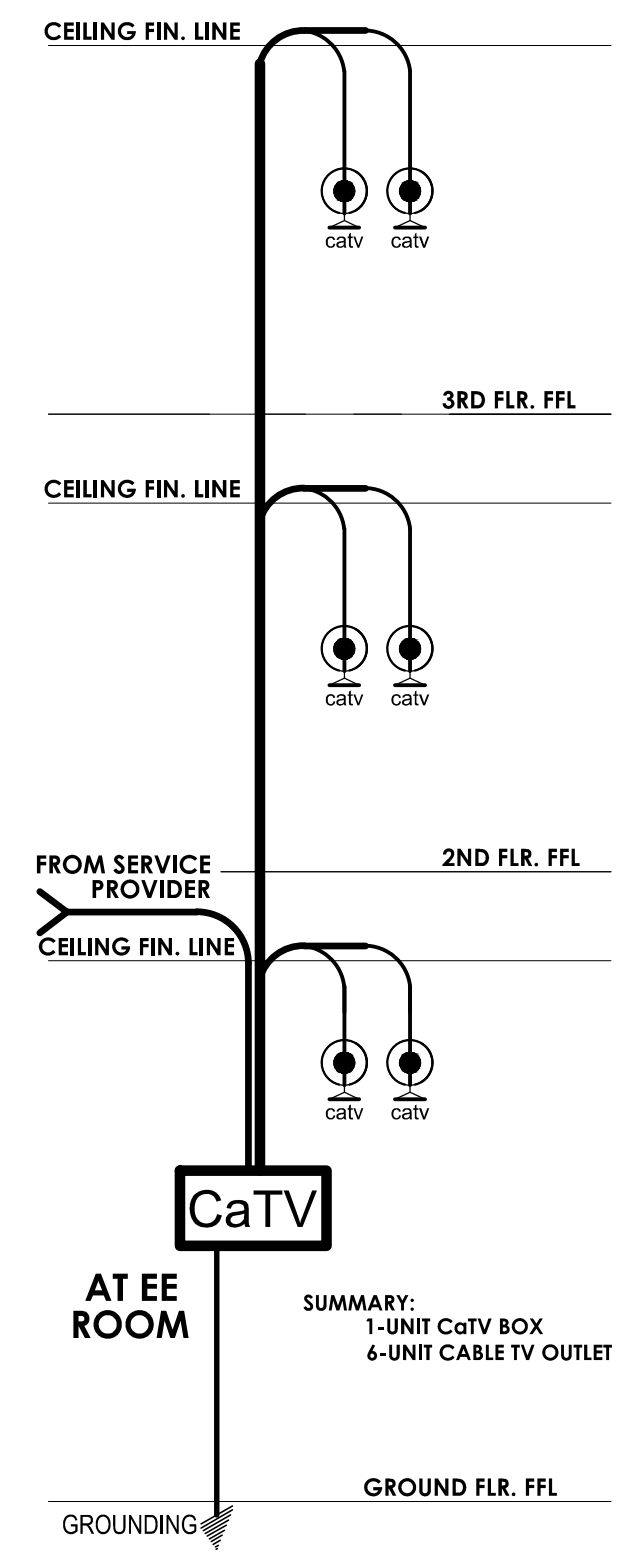
1. THIS DRAWING IS SCHEMATIC REPRESENTATION OF SYSTEM ONLY. TENDERS TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM AND WIRING METHODS RECOMMENDATION.
2. SMOKE DETECTOR SHALL BE MANUALLY-OPERATED OR STAND ALONE.
3. WIRING INSTALLATION (CEILING CONCEALED, EMBEDDED, EXPOSED OR SURFACED) SHALL BE USED RSC OR EMT, 15mm Ø MINIMUM.
4. WIRING METHODS SHALL BE AS FOLLOW:
 - A. LAN/TEL CABLE - #24 AWG 4 PAIRS UTP CABLE/CATS-E/CAT6
 - B. CCTV/CaTV CABLE - RG-59/6 COAX CABLE
5. CONDUIT SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED.
6. THIS ARRANGEMENT IS LIMITED TO DROP WIRE ATTACHMENT OF UP TO 5 LINES.
7. SPAN TO FIXTURE SHALL BE NOT EXCEED 45.7m.
8. SERVICE SHALL BE SUFFICIENTLY HIGH TO PROVIDE PROPER DROP WIRE CLEARANCE OVER SIDE, STREETS OR ROADWAYS IN COMPLIANCE WITH THE CODES AND REGULATIONS.



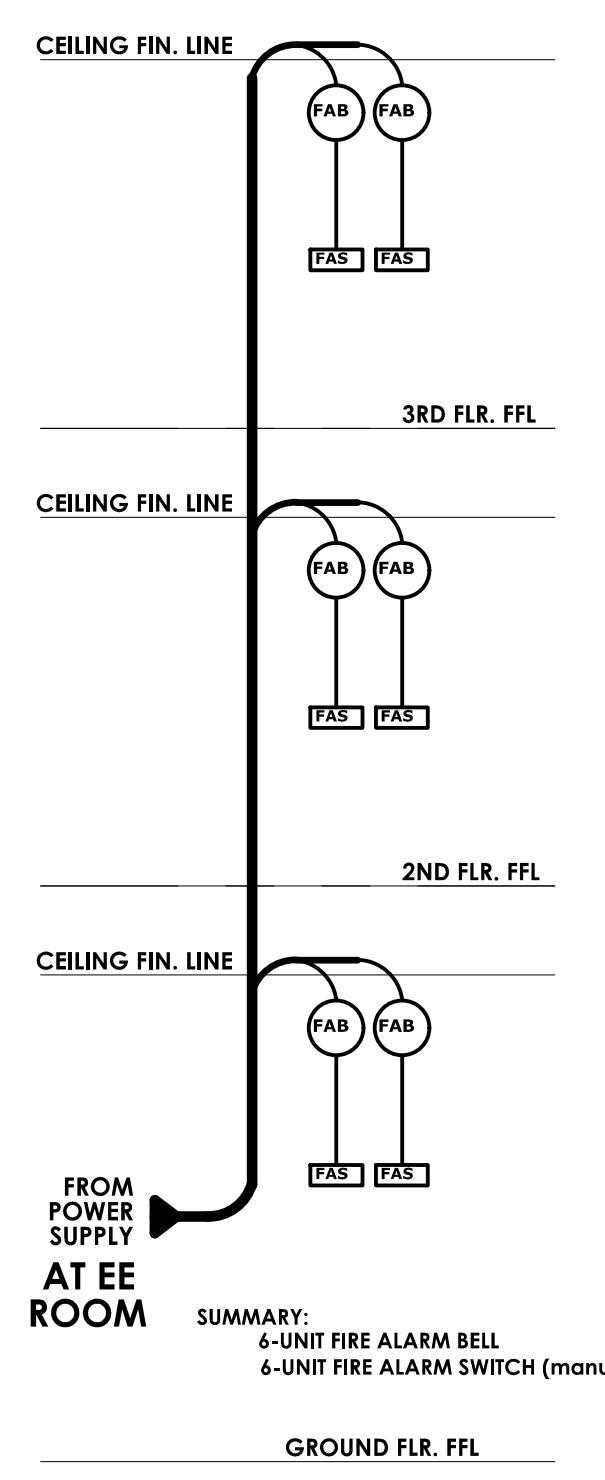
02 SECURITY SINGLE LINE RISER DIAGRAM
 ECE-04 SCALE: NTS



03 PUBLIC ADDRESS SYSTEM SINGLE LINE RISER DIAGRAM
 ECE-04 SCALE: NTS



04 CABLE TV SINGLE LINE RISER DIAGRAM
 ECE-04 SCALE: NTS



05 FIRE ALARM SYSTEM SINGLE LINE RISER DIAGRAM
 ECE-04 SCALE: NTS

LEGEND/SYMBOLS/ ABBREVIATIONS:			
	# - CCTV CAMERA		(FAB) - FIRE ALARM BELL
	DVR - DIGITAL VIDEO RECORDER		(FAS) - FIRE ALARM SWITCH (manual switch)
	ECE RACK - CONTAINS DVR, AMPLIFIER & CaTV SIGNAL BOX		(AMP) - AMPLIFIER
	↓ - GROUNDING		(SPK) - WALL-MOUNTED SPEAKER
	Y - SERVICE ENTRANCE		(PAS) - PUBLIC ADDRESS
	(SD) - STAND ALONE SMOKE DETECTOR		(CaTV) - CABLE TV OUTLET

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