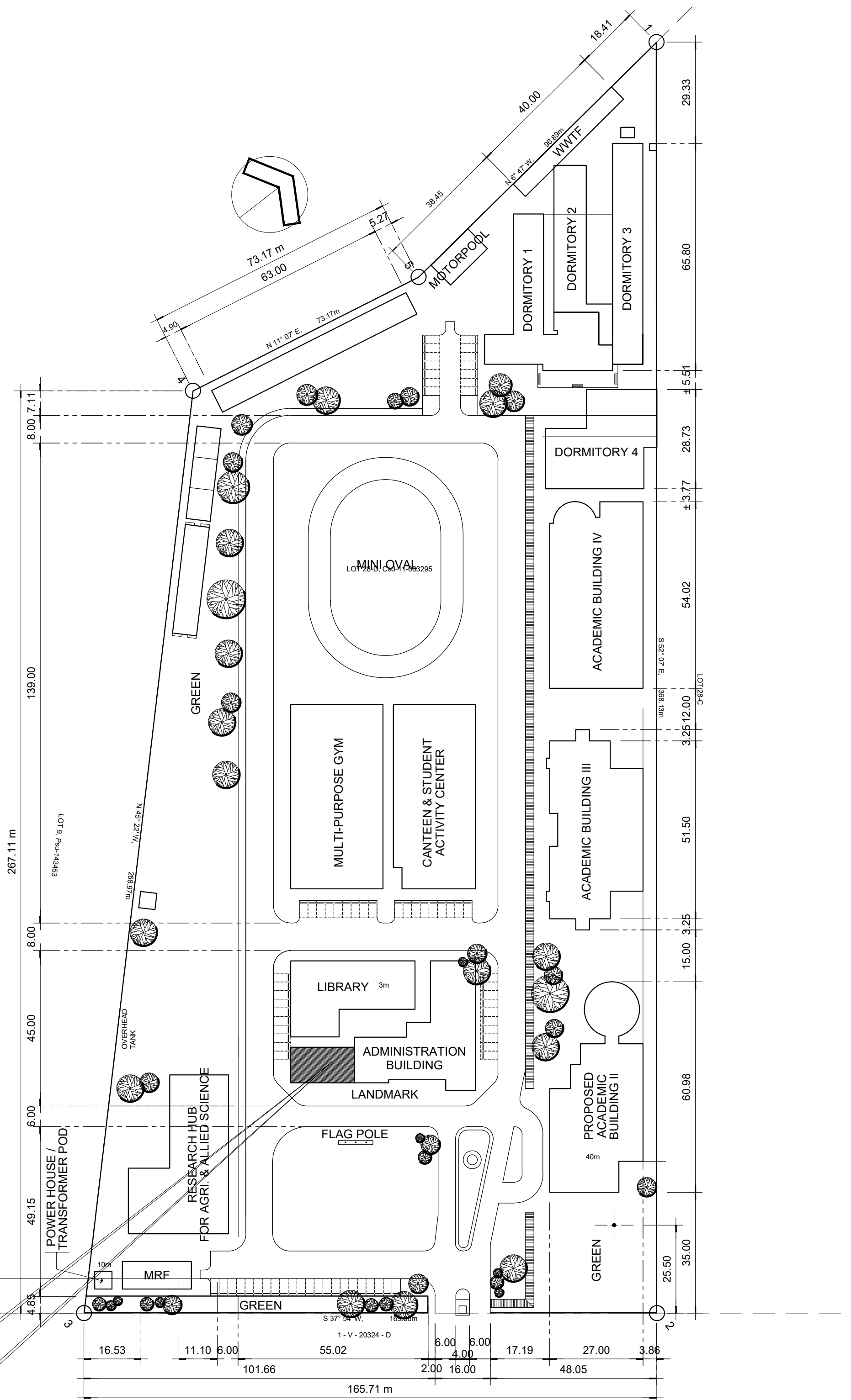




01 PERSPECTIVE  
A-01 SCALE: NTS



02 LOCATION MAP  
A-01 SCALE: NTS



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

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- FIRE DETECTION RISER DIAGRAM
- TELEPHONE RISER DIAGRAM
- CABLE TV RISER DIAGRAM
- GENERAL NOTES & SPECIFICATION

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAY  
OFFICE OF THE BUILDING OFFICIAL  
GENERAL SANTOS CITY

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**BUILDING OFFICIAL**

**LAND USE AND ZONING**

**LINE AND GRADE**

**ARCHITECTURAL**

**STRUCTURAL**

**ELECTRICAL**

**MECHANICAL**

**SANITARY**

**ELECTRONICS**

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ARCHITECT

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PTR: 7805115  
DATE ISS: 04 JAN 2018  
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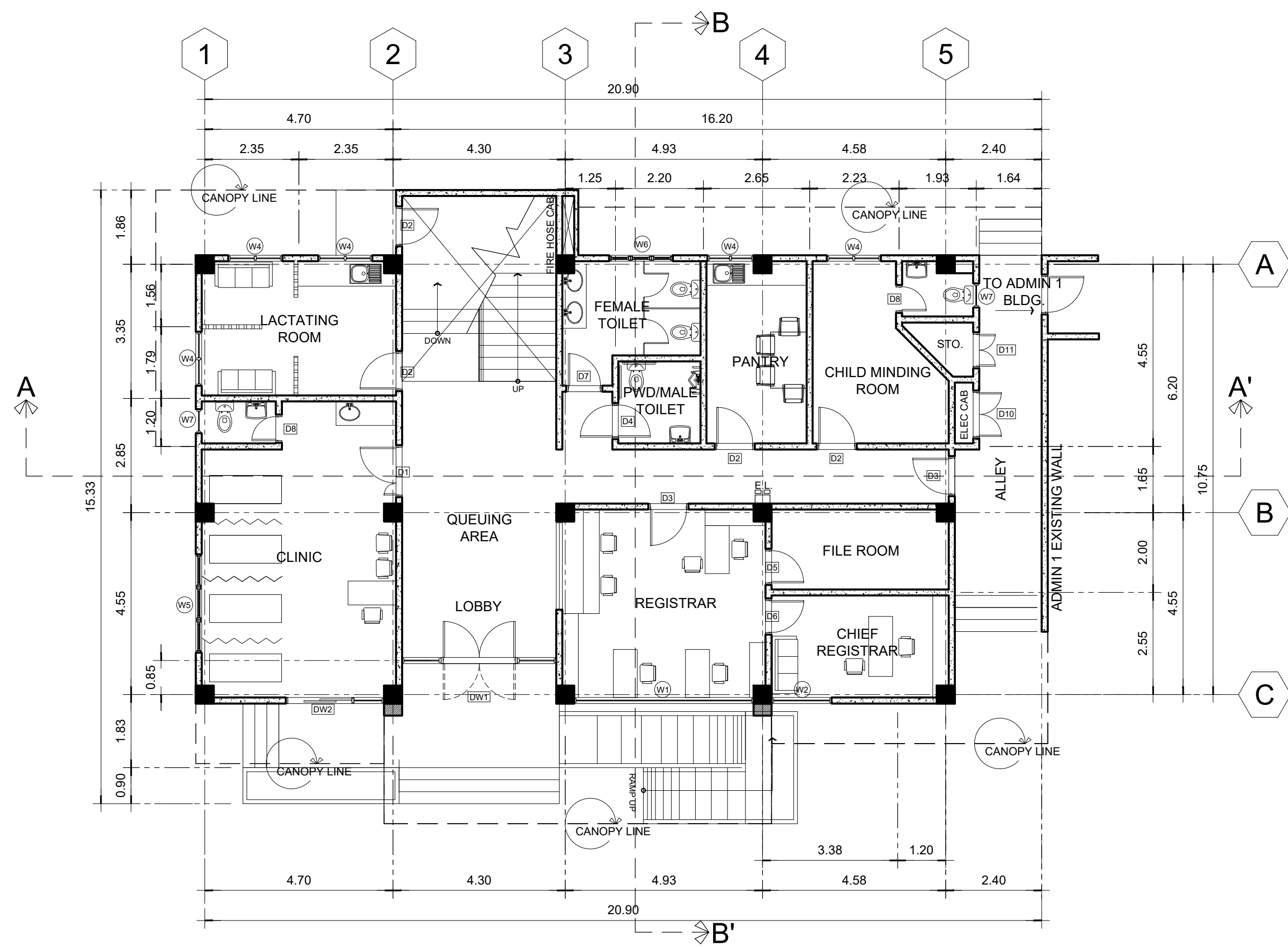
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PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

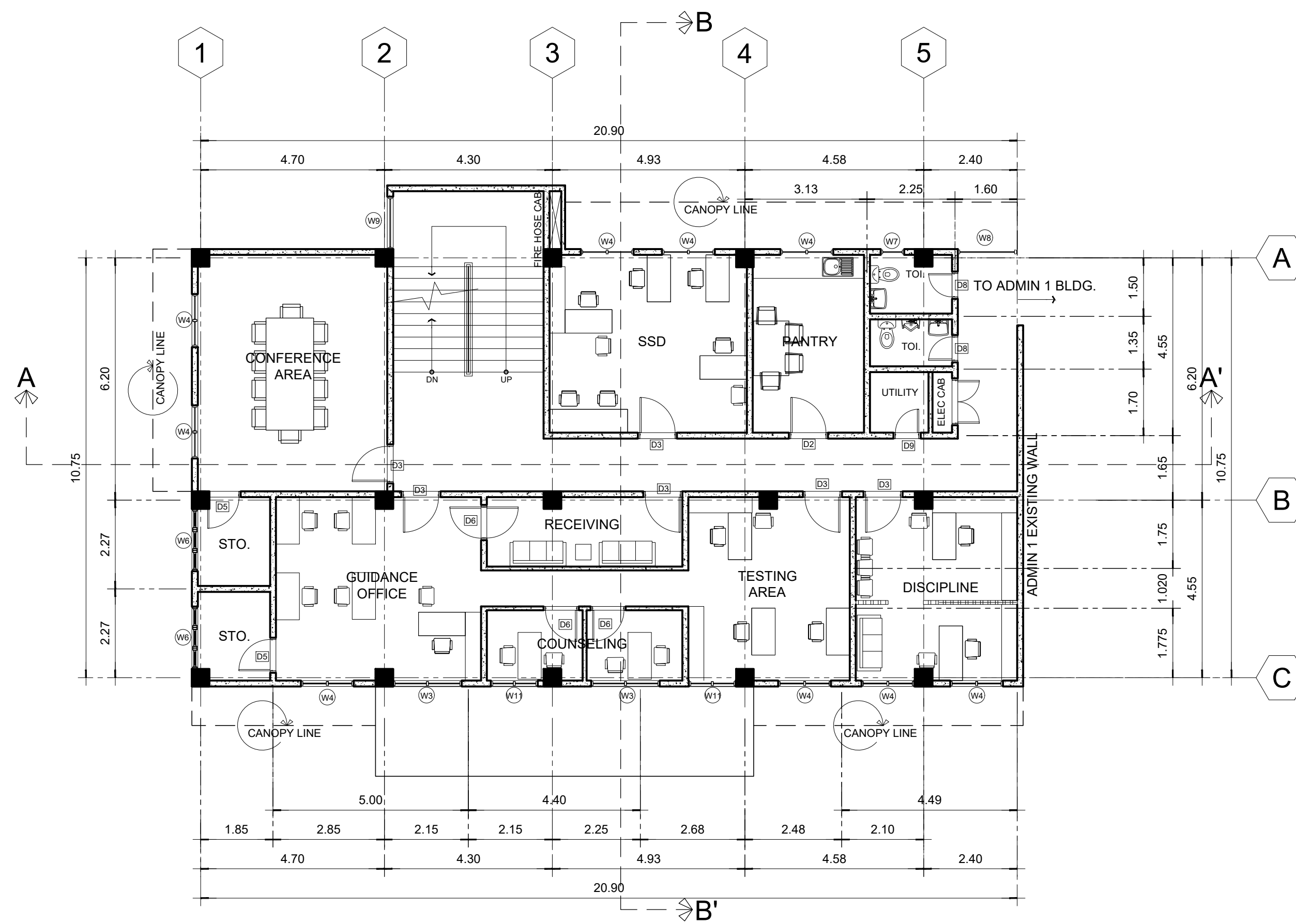
APPROVED BY  
**CHUCHI P. GARGANERA, PH. D.**  
OWNER  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:  
**AR.MON PAOLO H. LAVEGA**  
JUNIOR DESIGN ARCHITECT  
CHECKED BY:  
RESIDENT ENGINEER

SHEET NO.  
A-01  
01 23



01 GROUND FLOOR PLAN  
A-02 SCALE: 1:100m.



02 SECOND FLOOR PLAN  
A-02 SCALE: 1:100m.

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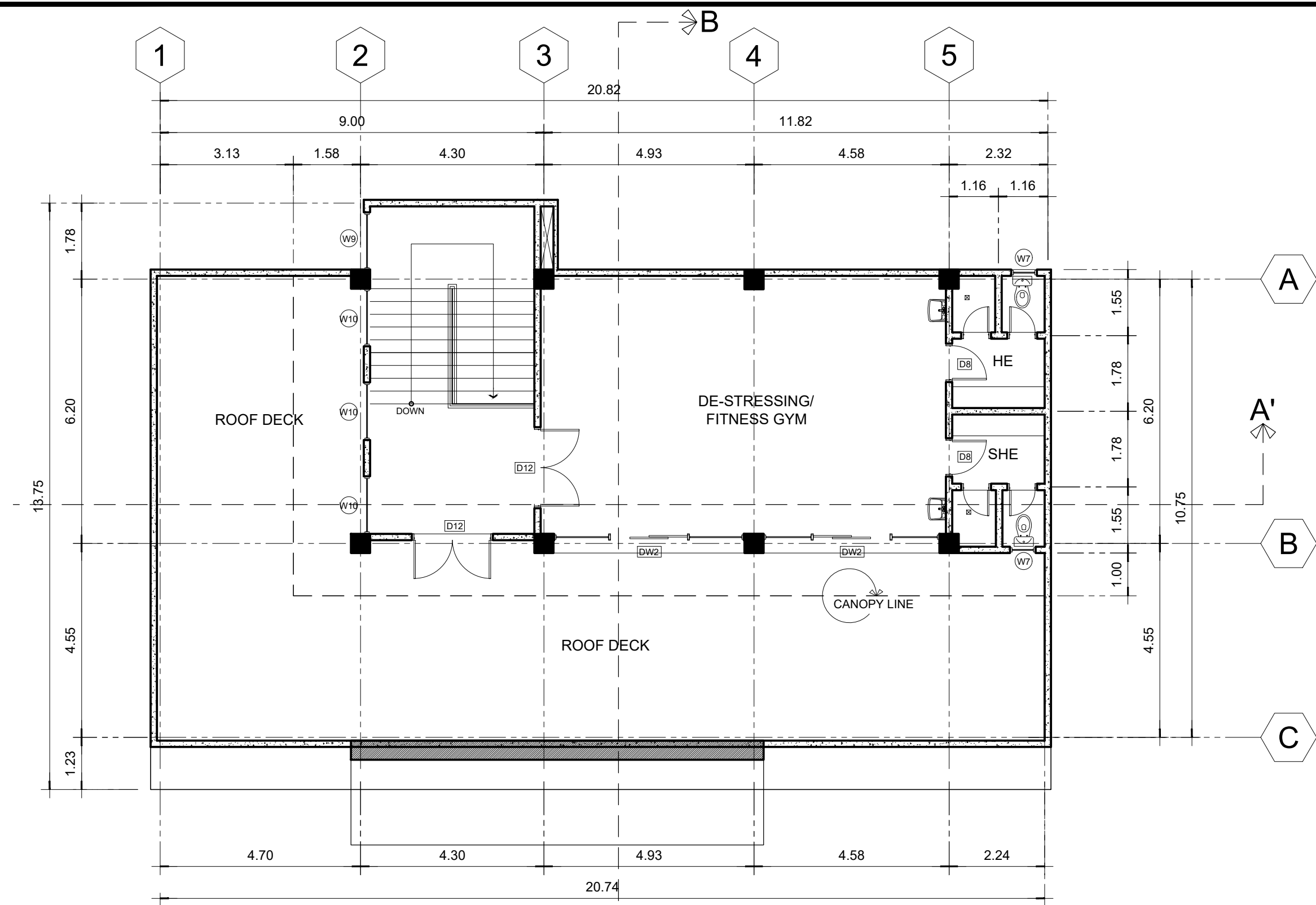
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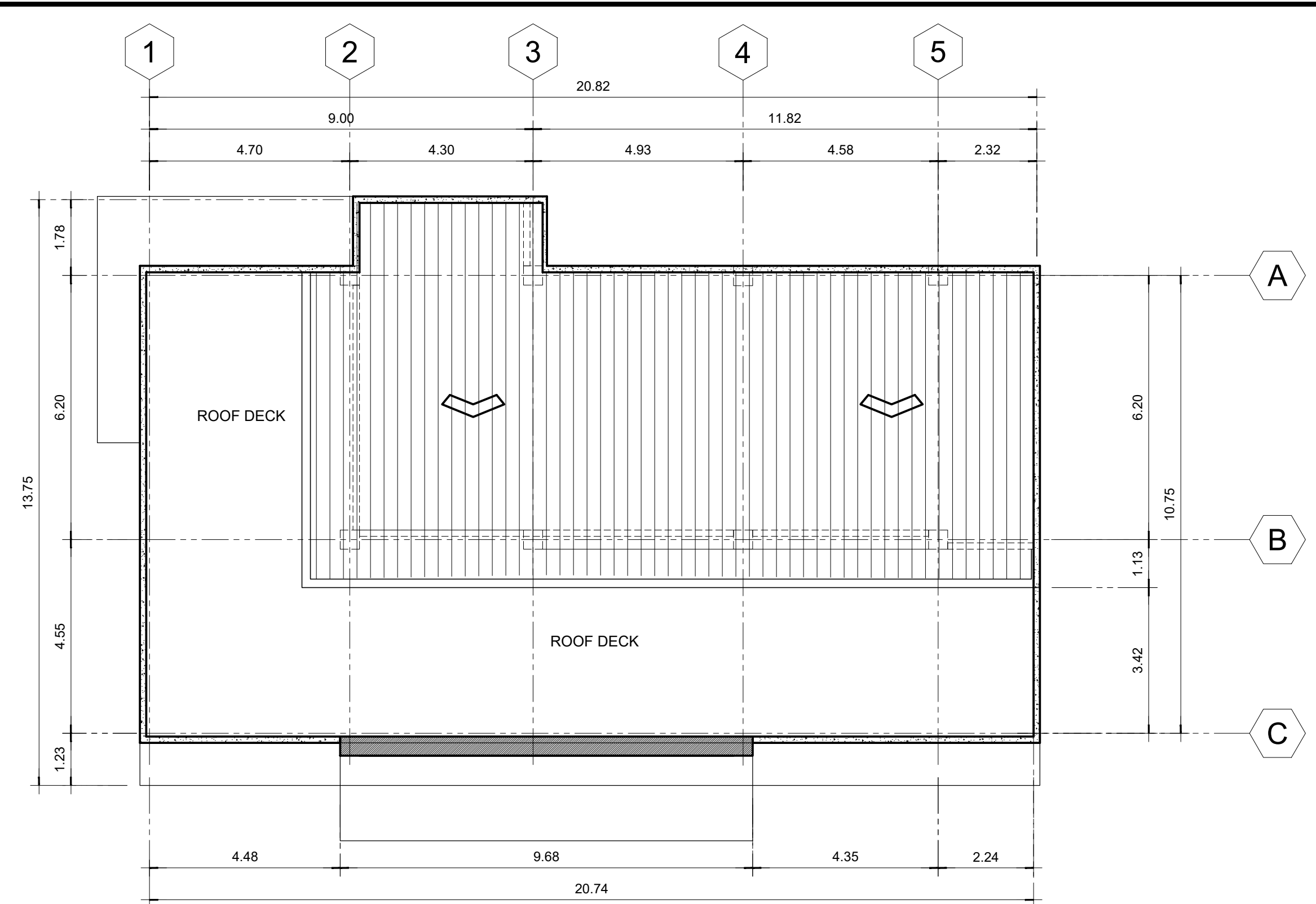
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**PREPARED BY:**  
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**CHECKED BY:**  
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RESIDENT ENGINEER

**SHEET NO.**  
A-02  
02 23



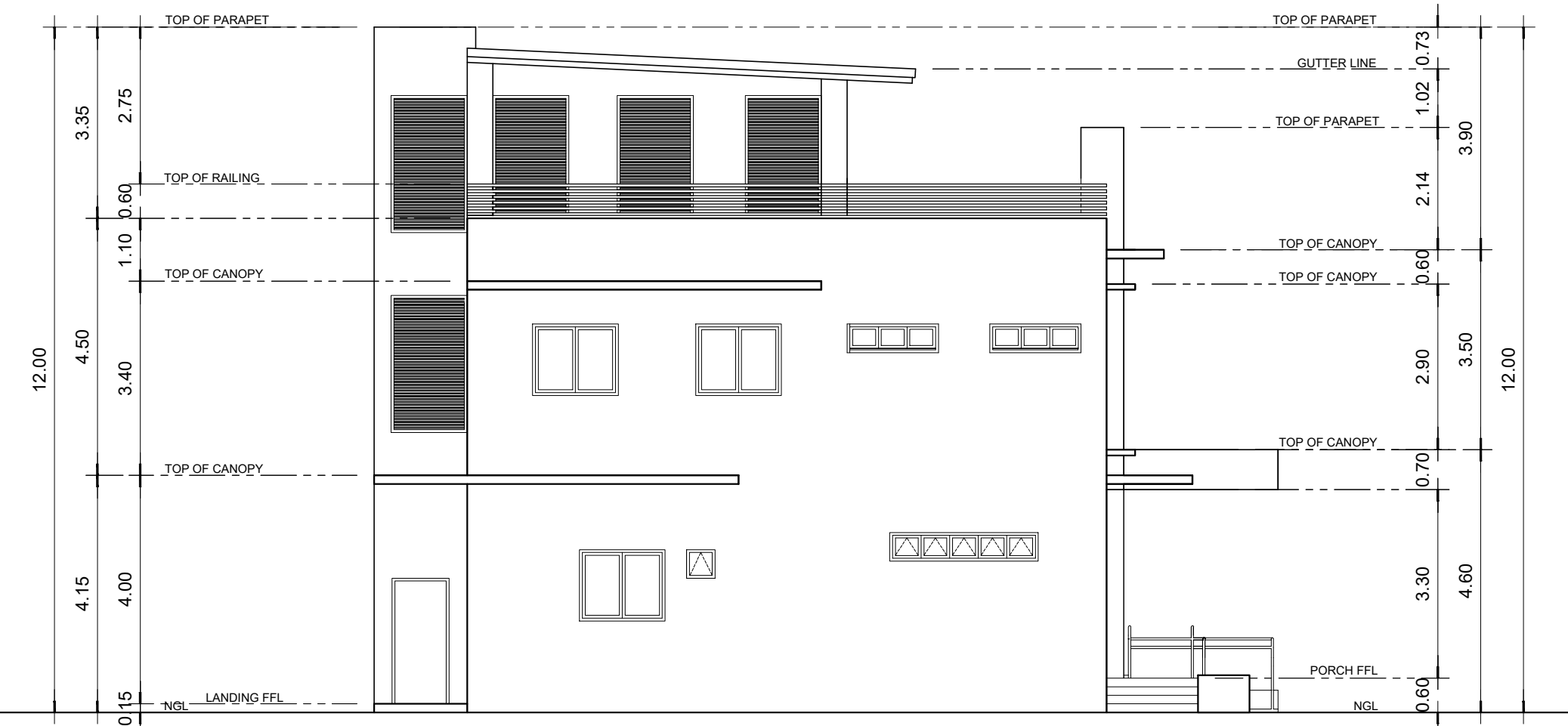
01 THIRD FLOOR PLAN  
A-03 SCALE: 1:100m.



02 ROOF PLAN  
A-03 SCALE: 1:100m.



03 FRONT ELEVATION  
A-03 SCALE: 1:100m.



04 LEFT SIDE ELEVATION  
A-03 SCALE: 1:100m.

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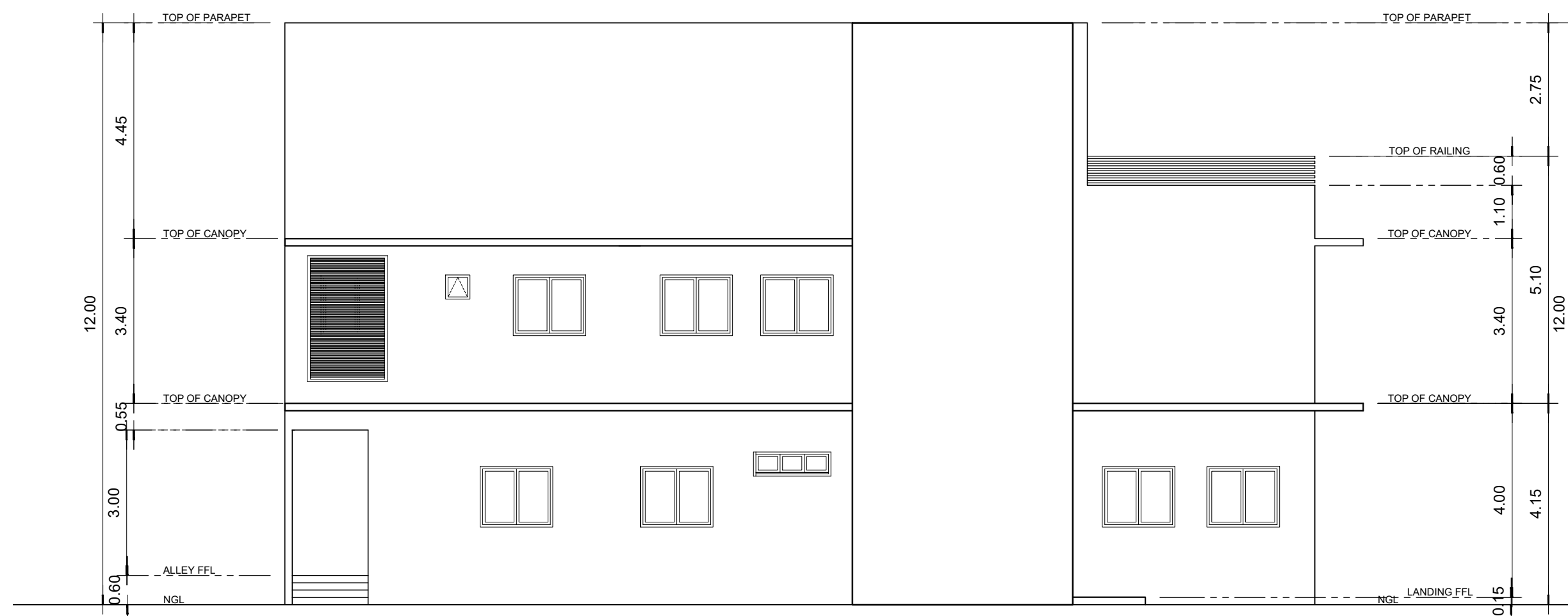
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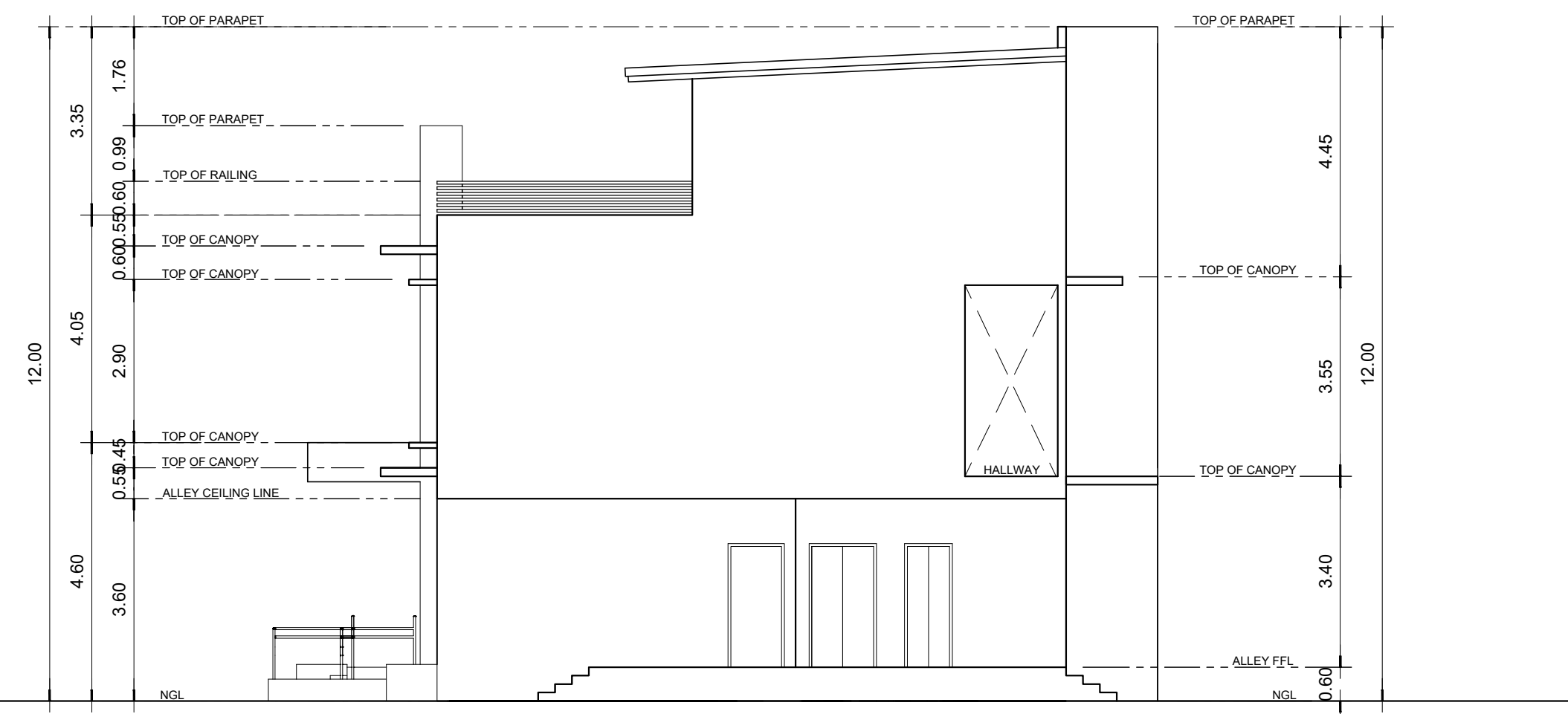
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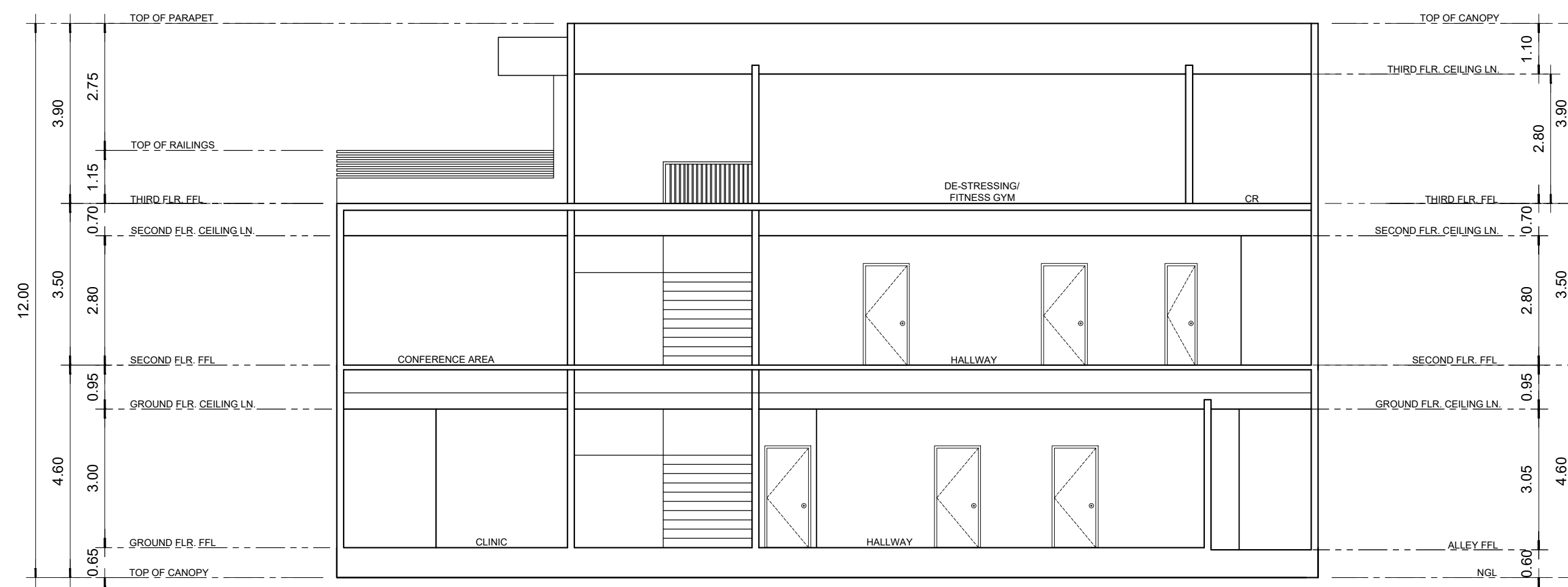
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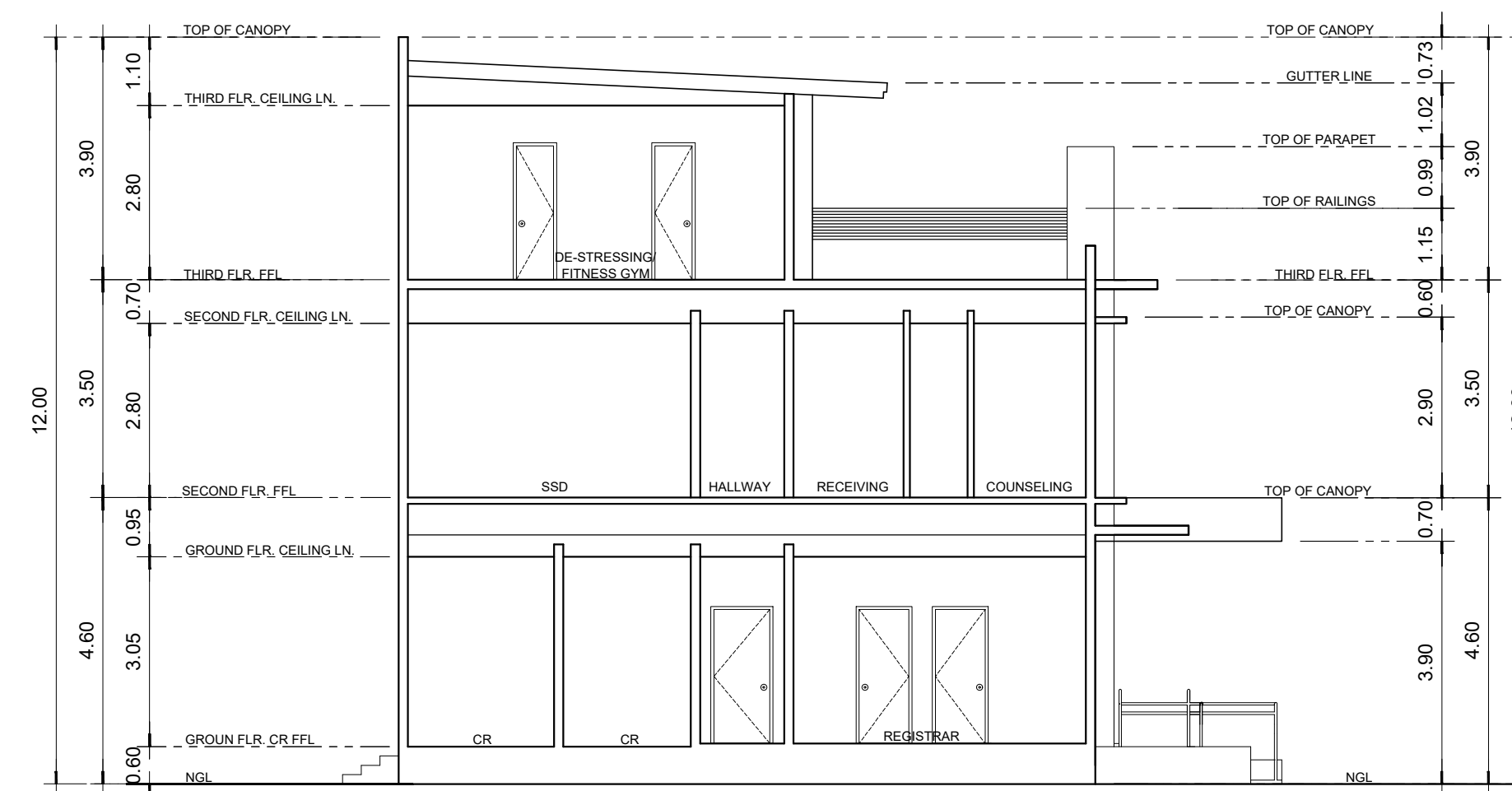
01 REAR ELEVATION  
A-04 SCALE: 1:100m.



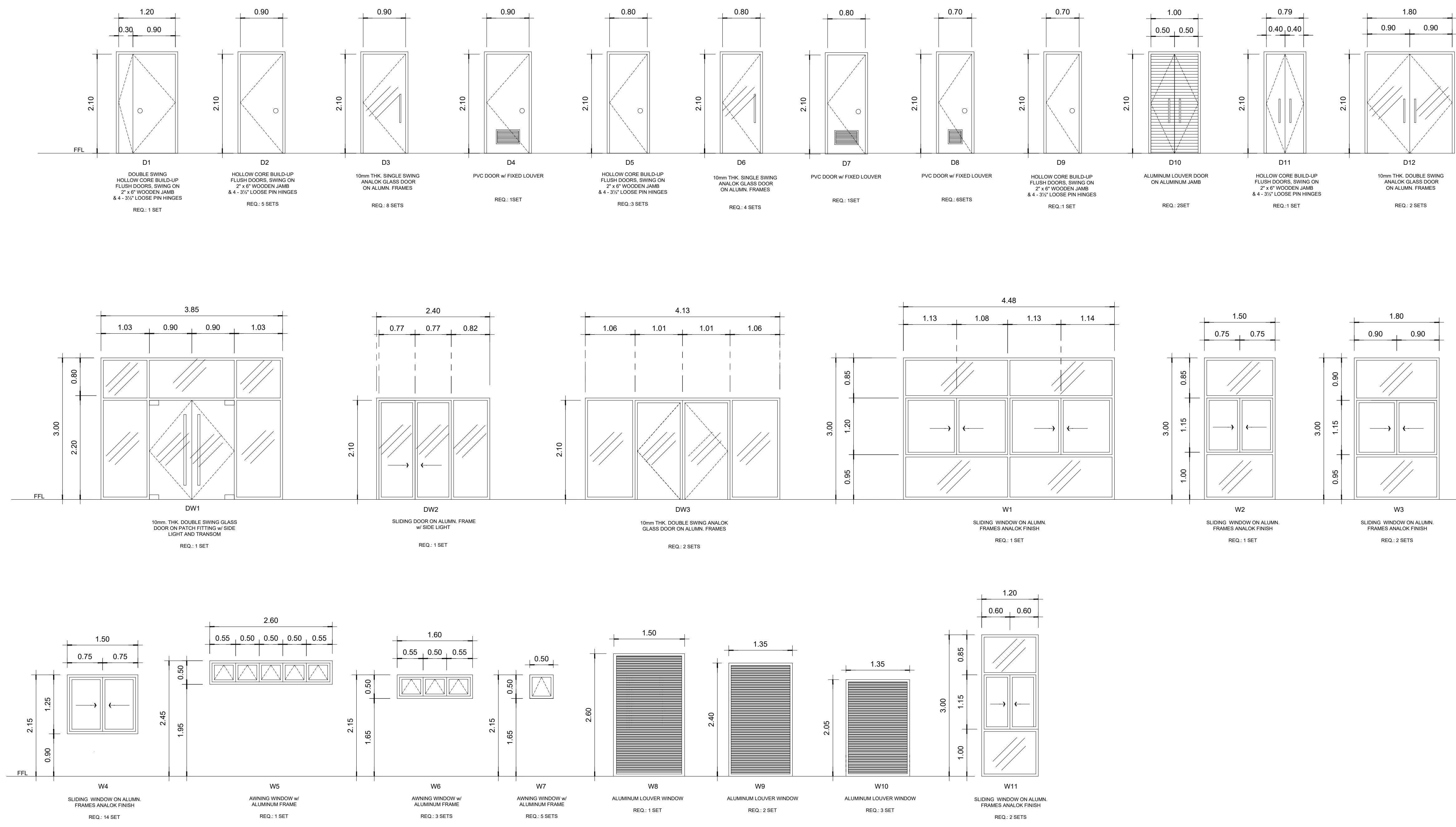
02 RIGHT SIDE ELEVATION  
A-04 SCALE: 1:100m.



03 SECTION THRU A-A'  
A-04 SCALE: 1:100m.



04 SECTION THRU B-B'  
A-04 SCALE: 1:100m.



01 SCHEDULE OF DOORS AND WINDOWS  
A-05 SCALE: 1:50

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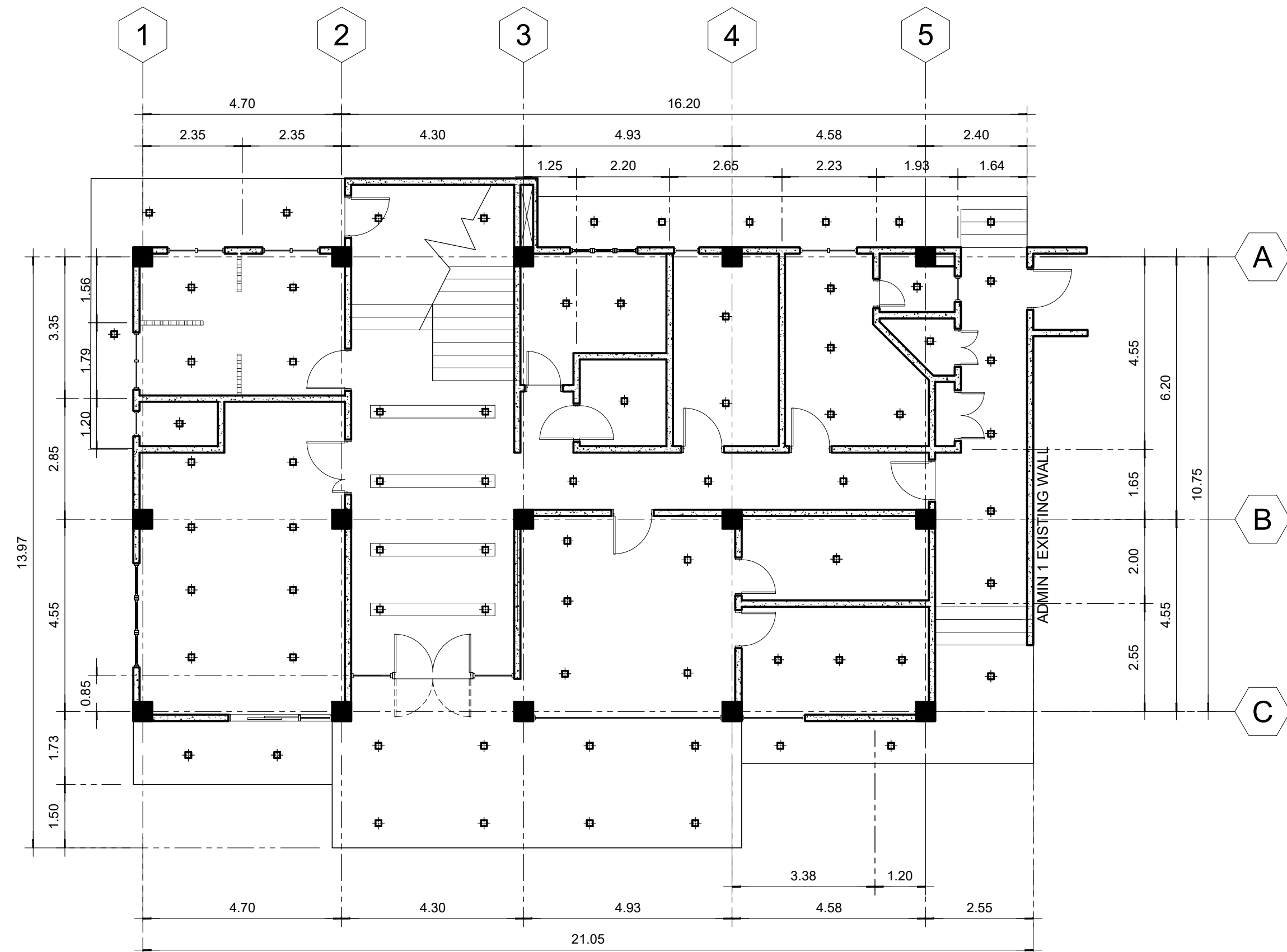
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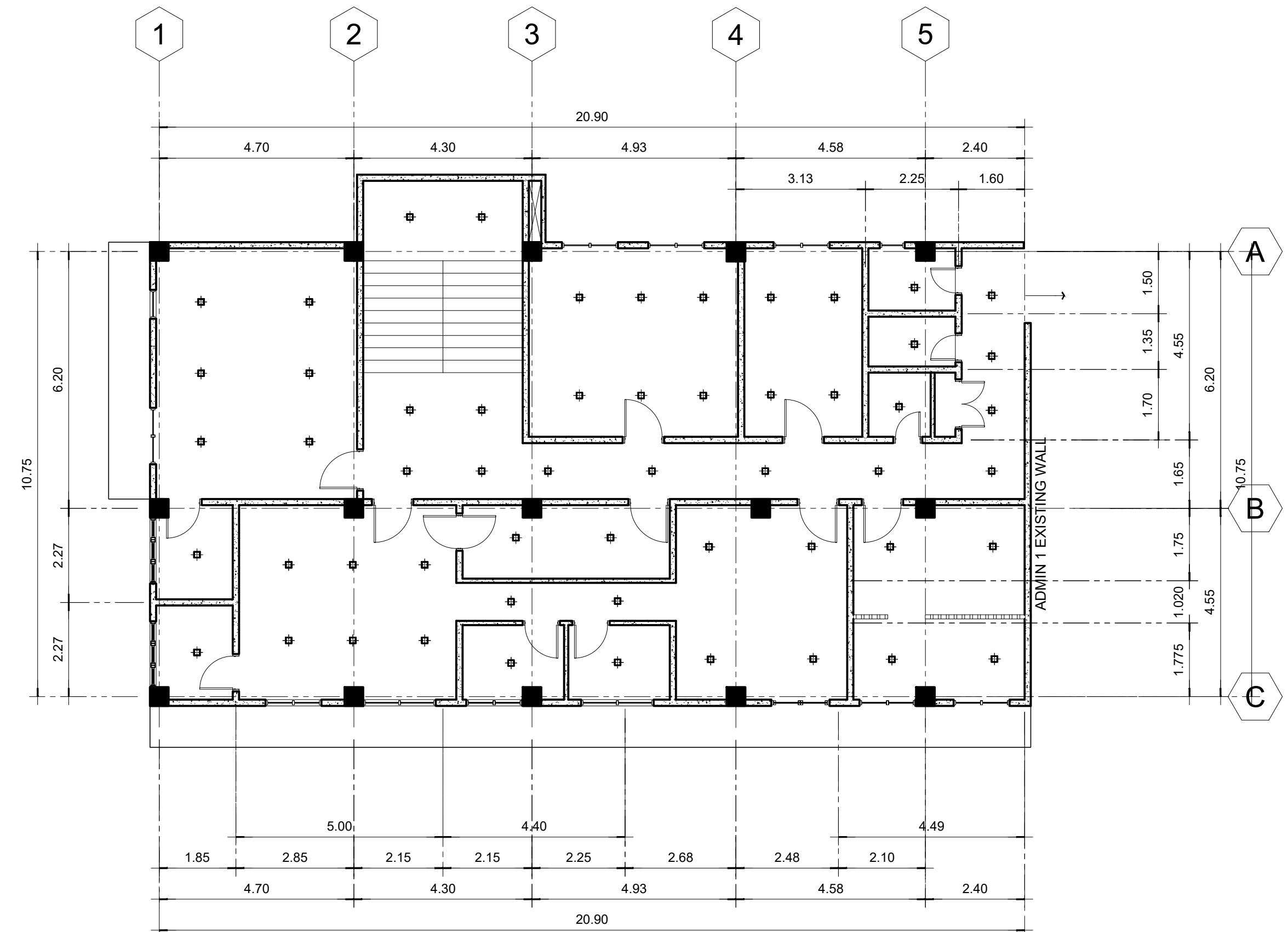
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RESIDENT ENGINEER	---

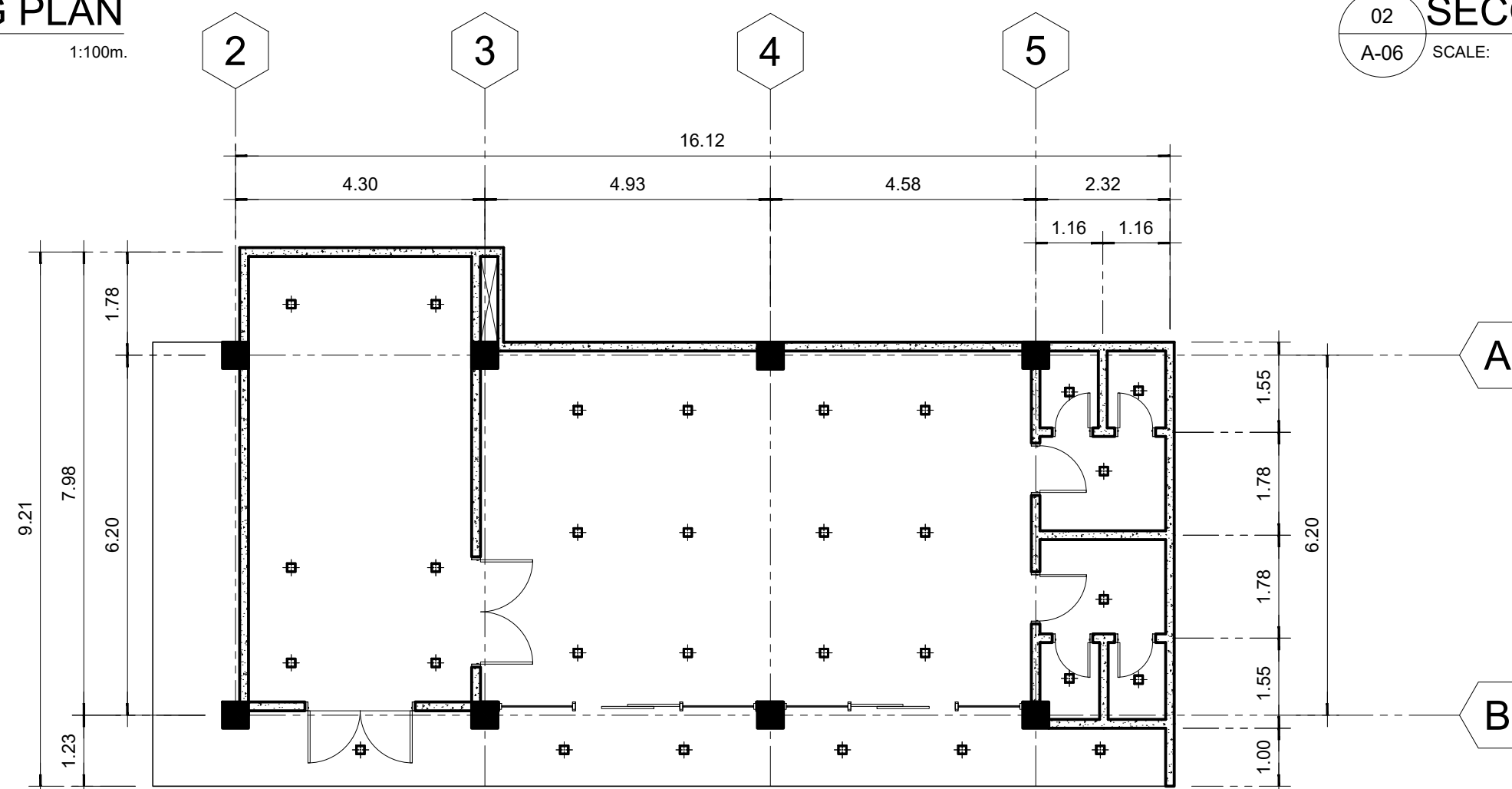
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05	23



01 GROUND FLOOR CEILING PLAN  
A-06 SCALE: 1:100m.



02 SECOND FLOOR CEILING PLAN  
A-06 SCALE: 1:100m.



03 THIRD FLOOR CEILING PLAN  
A-06 SCALE: 1:100m.



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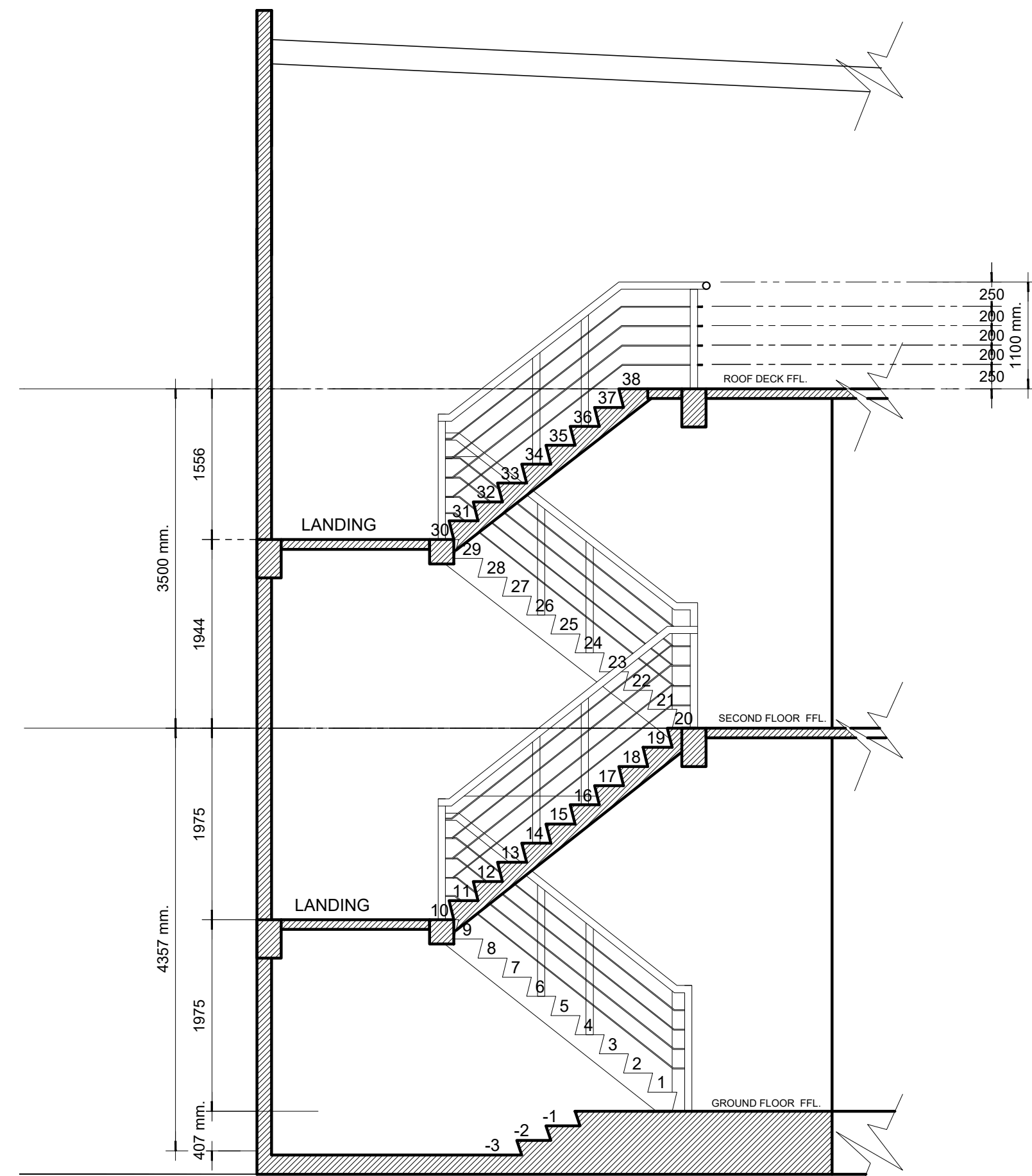
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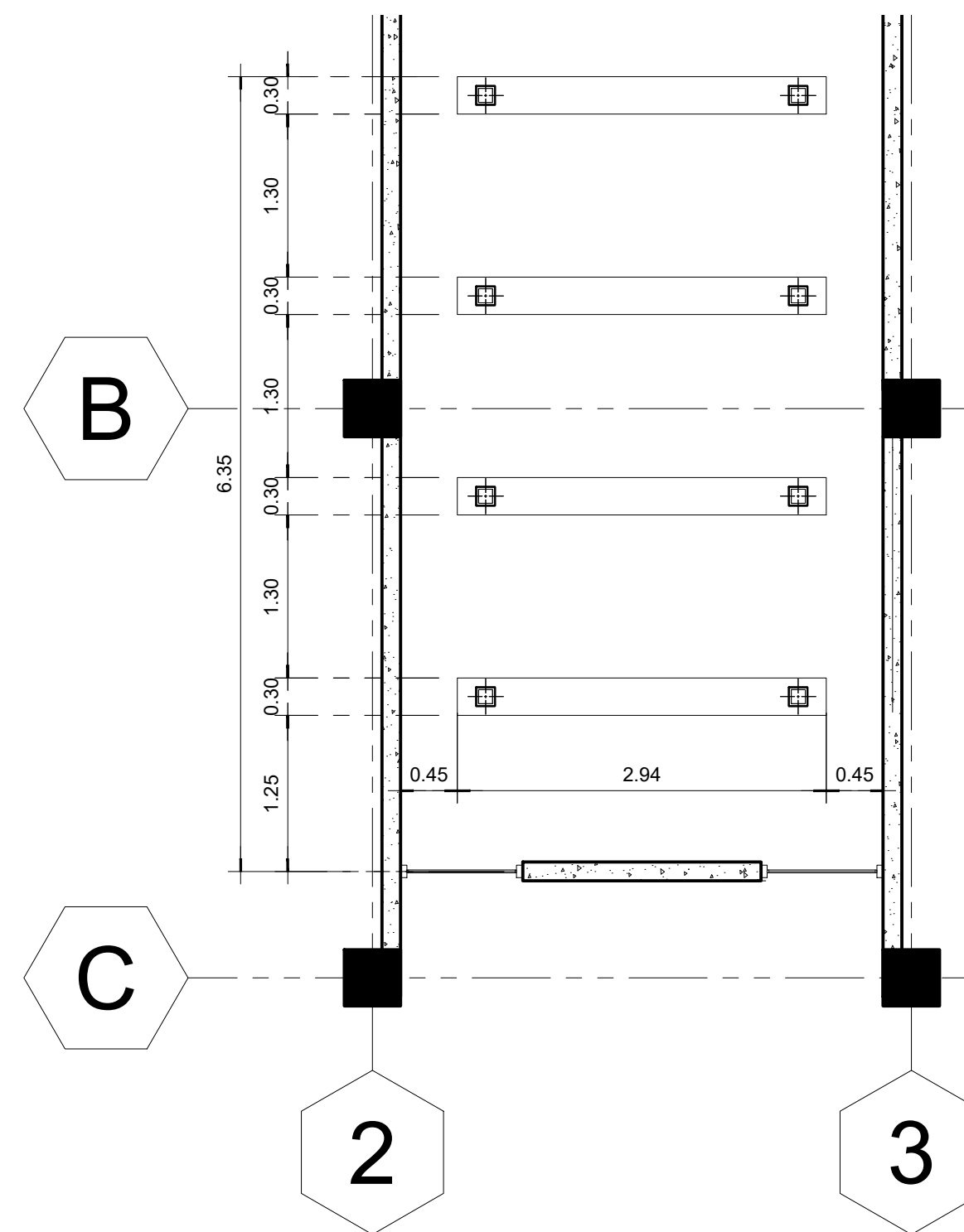
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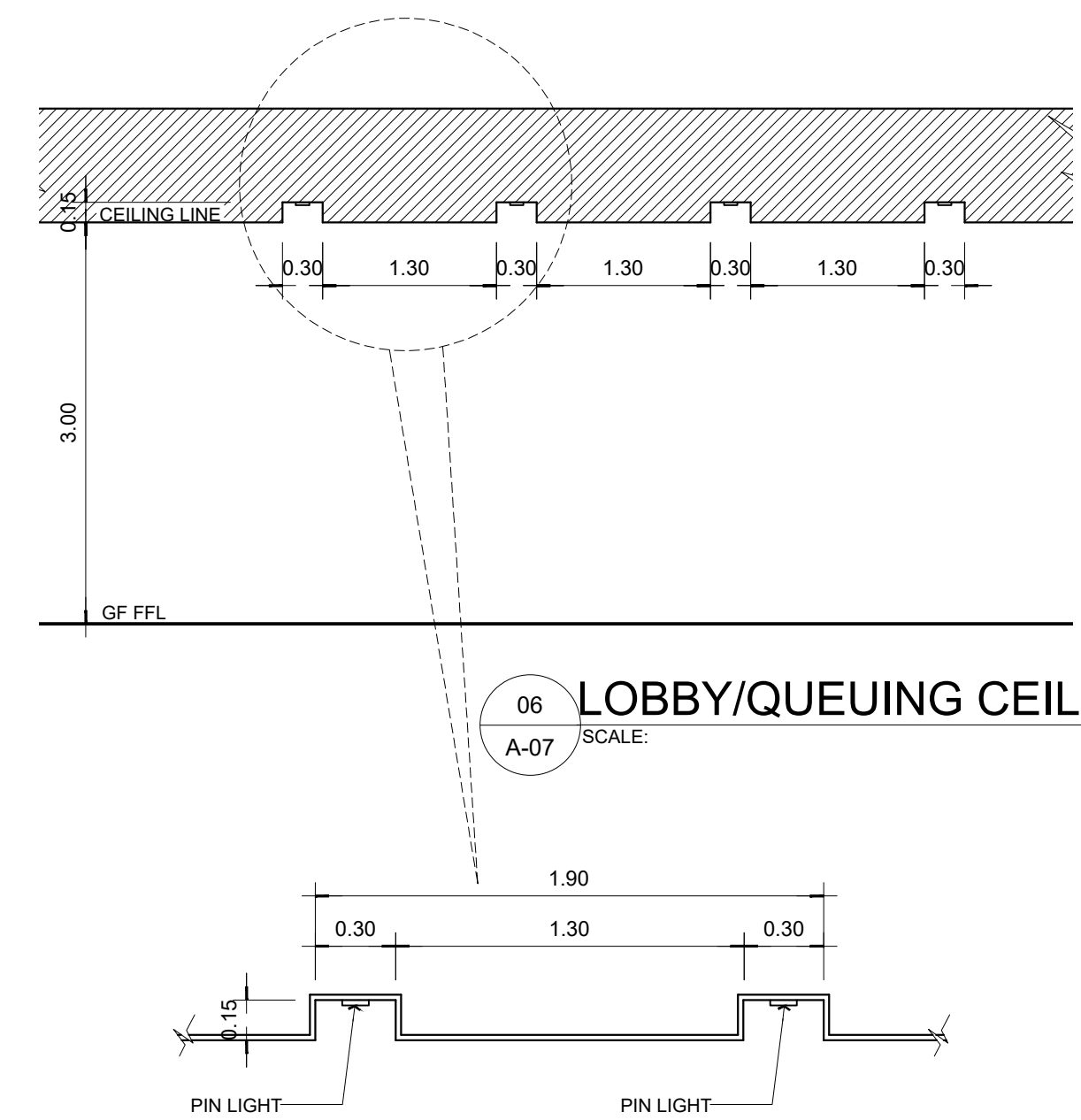
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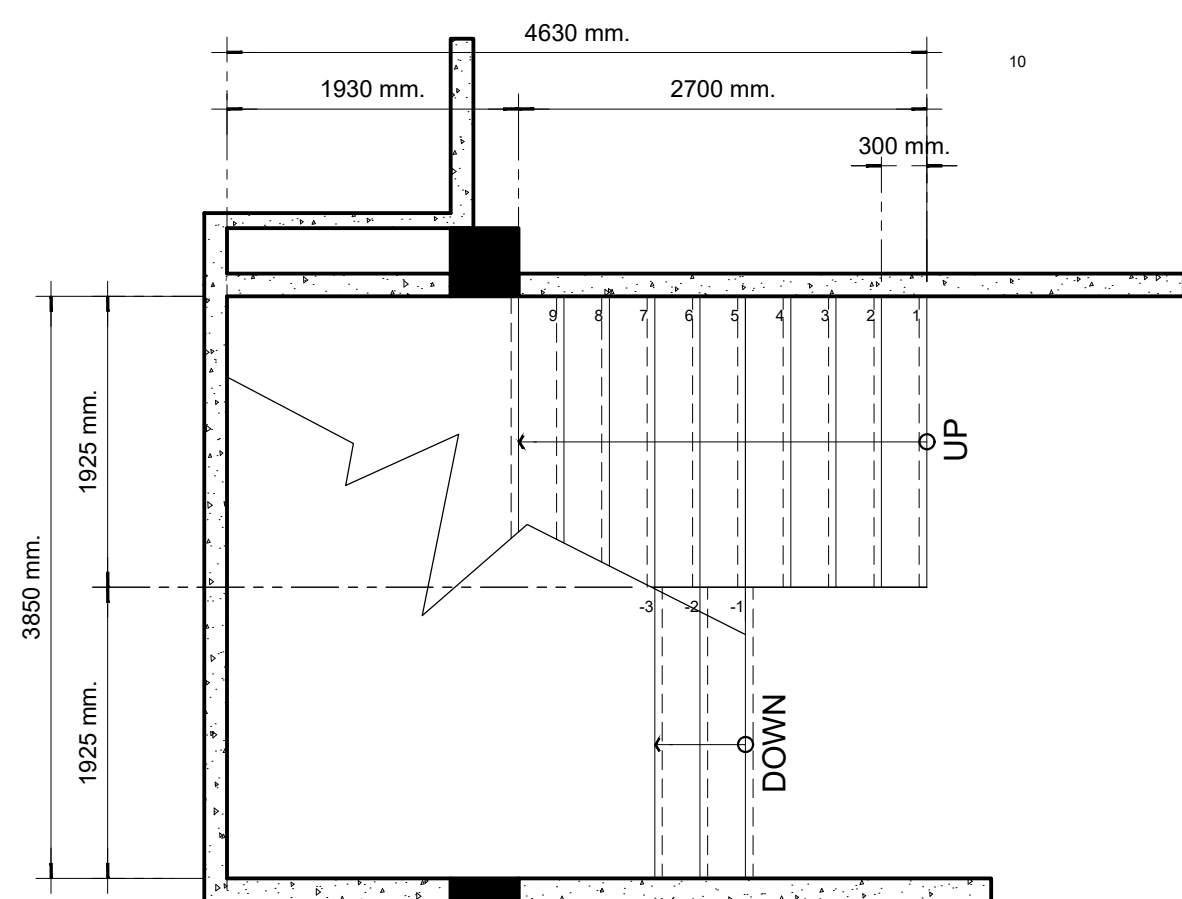
01 STAIR SECTION  
A-07 SCALE: 1:50m.



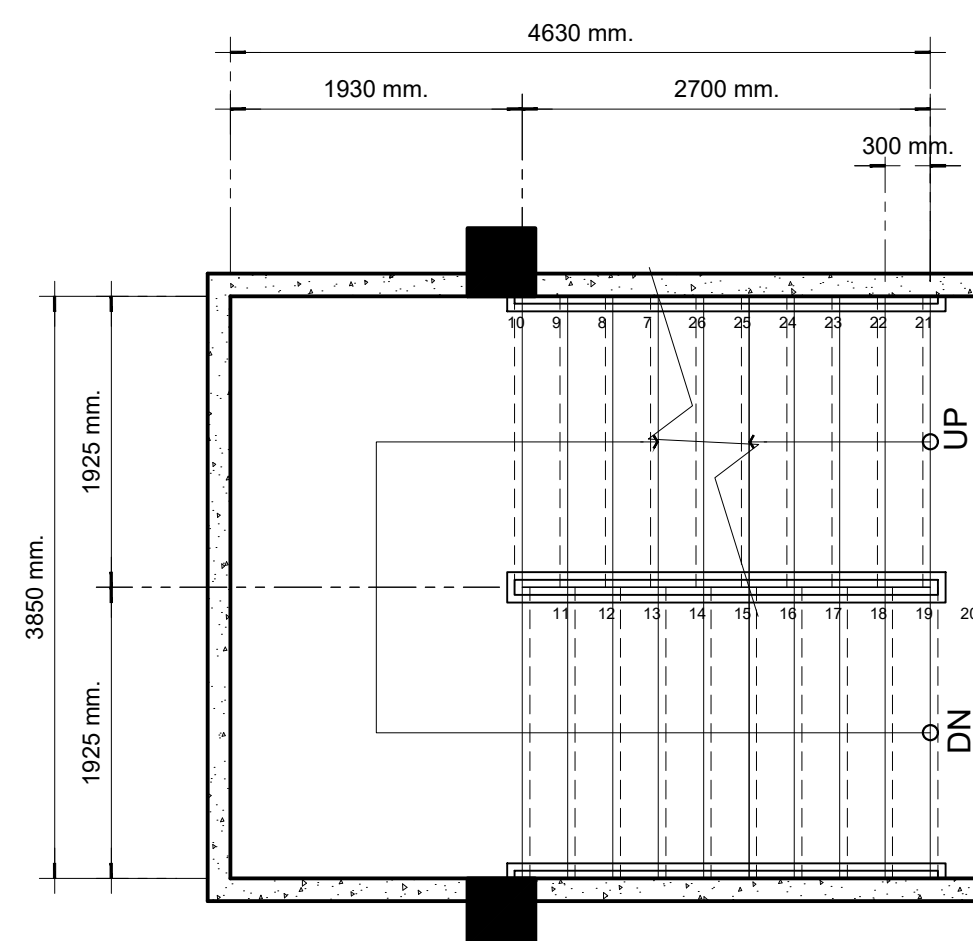
05 LOBBY/QUEUING CEILING PLAN  
A-07 SCALE: 1:50m.



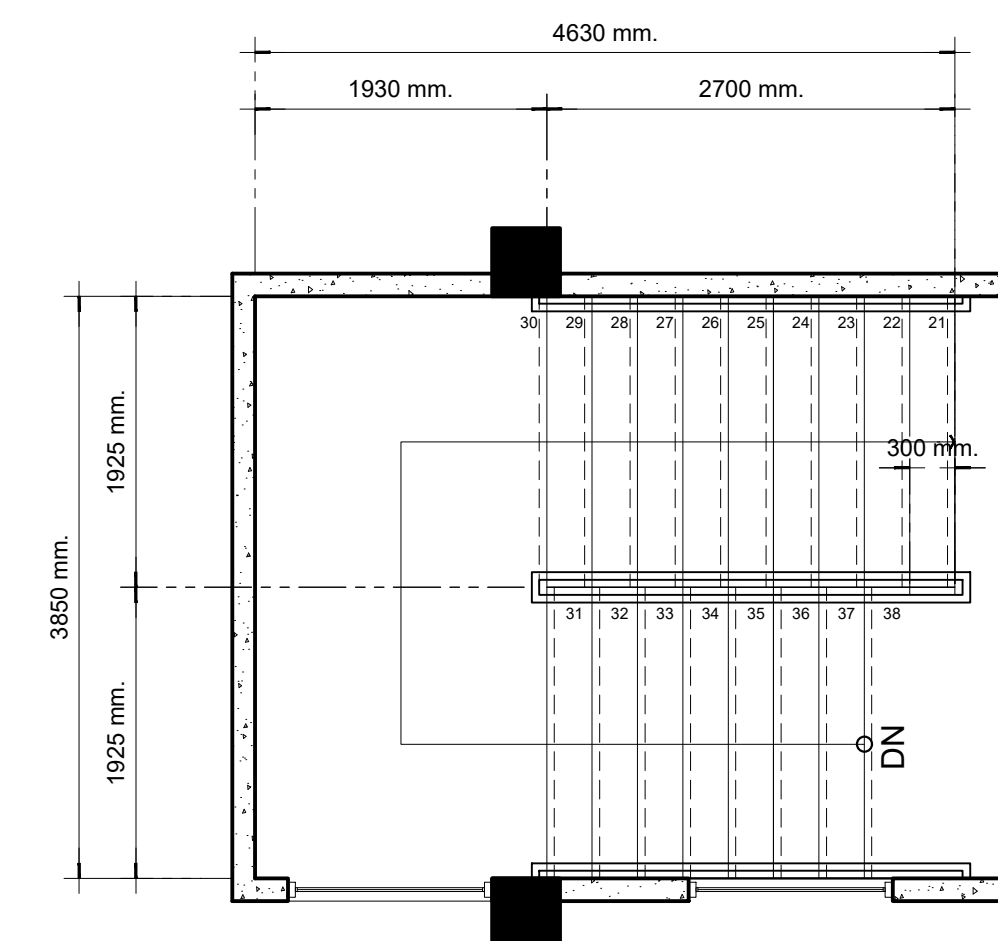
07 BLOW UP DETAIL  
A-07 SCALE: 1:25m.



02 STAIR PLAN @ GROUND FLOOR  
A-07 SCALE: 1:50m.



03 STAIR PLAN @ SECOND FLOOR  
A-07 SCALE: 1:50m.



04 STAIR PLAN @ ROOF DECK  
A-07 SCALE: 1:50m.

# CONSTRUCTION NOTES & DETAILS

## A. GENERAL

- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- 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.
- 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 & REINFORCEMENT

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

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS & SOF	2500 PSI(20.5 MPa)	1 IN. (25MM.)	3/4 IN. (19MM.)
WALL FOOTINGS & STIFF. COLUMNS	3000 PSI(21.0 MPa)	1 IN. (25MM.)	3/4 IN. (19MM.)
FOUNDATION & FOOTING TIE BEAM	3500 PSI(24.0 MPa)	3/4 IN. (19MM.)	3/4 IN. (19MM.)
BEAMS & SLAB	3500 PSI(24.0 MPa)	3/4 IN. (19MM.)	3/4 IN. (19MM.)
COLUMNS & STAIR	3500 PSI(24.0 MPa)	3/4 IN. (19MM.)	3/4 IN. (19MM.)

- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 (PNS 49); GRADE 33 FOR DIA. 12 AND SMALLER BARS AND GRADE 40 FOR DIA. 16 AND LARGER BARS ALL TIES ARE ALL GRADE 33.
- IN GENERAL, THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO, UNLESS OTHERWISE SHOWN OR NOTED.
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	3/4 IN. ( 19 MM. )
SLAB ON GRADE	1 1/2 IN. ( 38 MM. )
WALLS ABOVE GRADE	1 IN. ( 25 MM. )
BEAM STIRRUPS AND COLUMN TIES	1 1/2 IN. ( 38 MM. )
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	2 IN. ( 50 MM. )
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	2 3/4 IN. ( 70 MM. )

- SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPlice AND ANCHORAGE LENGTH). UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS, AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.

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

- STRIPPING OF FORMS AND SHORES:
 

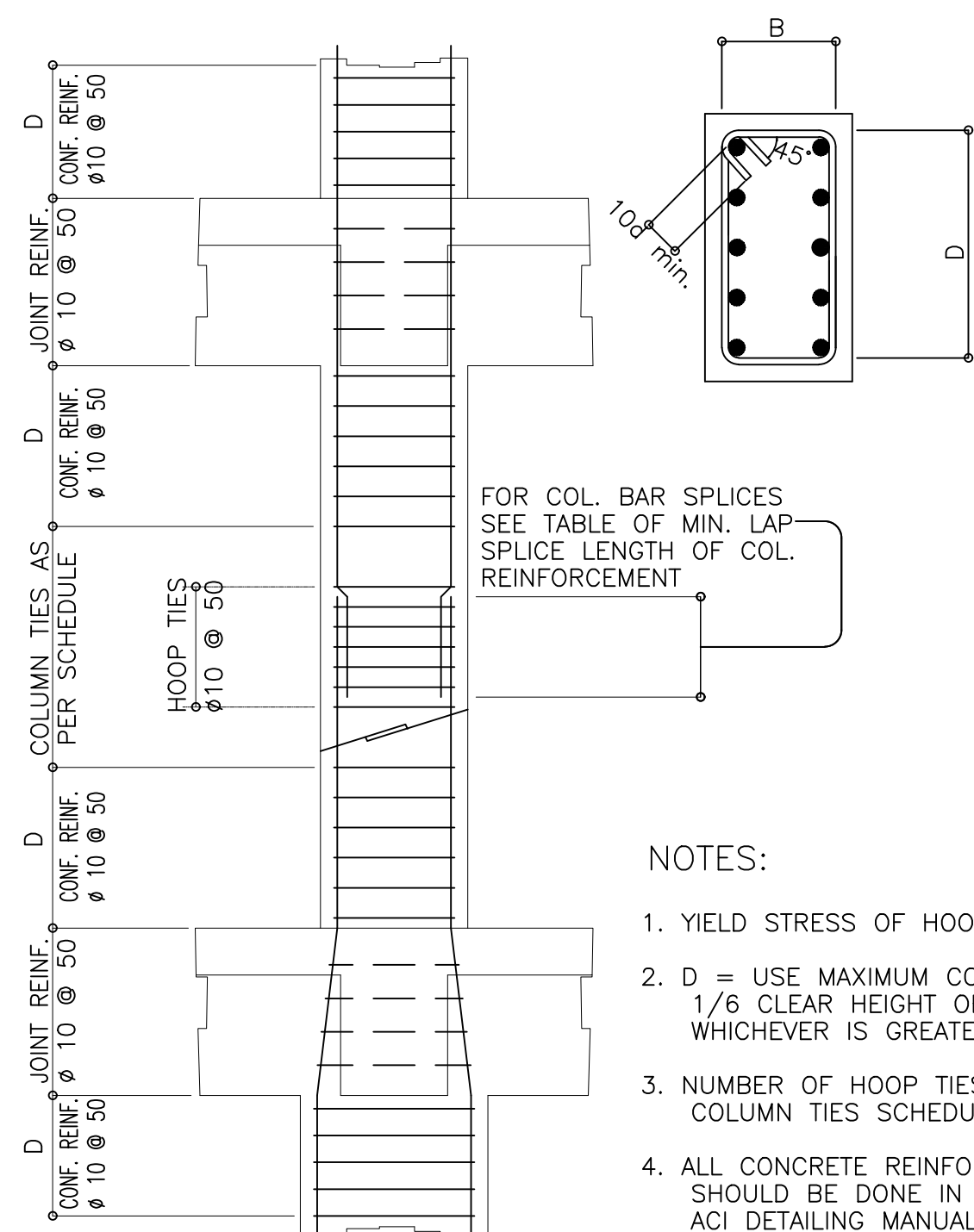
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	18 HRS.
BEAMS & COLUMNS	8 DAYS

## C. FOUNDATION

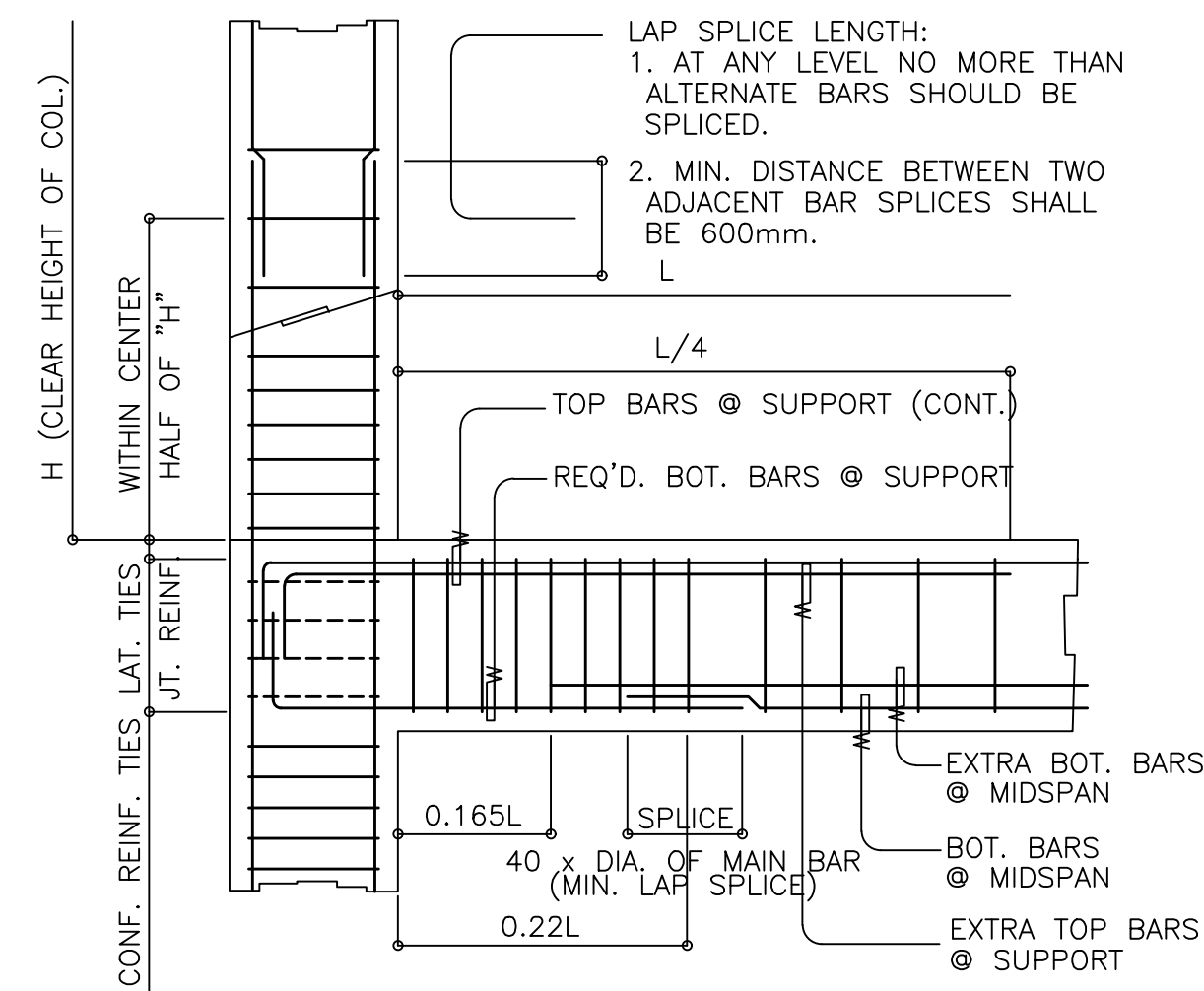
- FOUNDATION IS DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF OF 110.0 kPa. (SEE SOIL TEST RESULT)
- FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.

## D. STEEL STRUCTURES

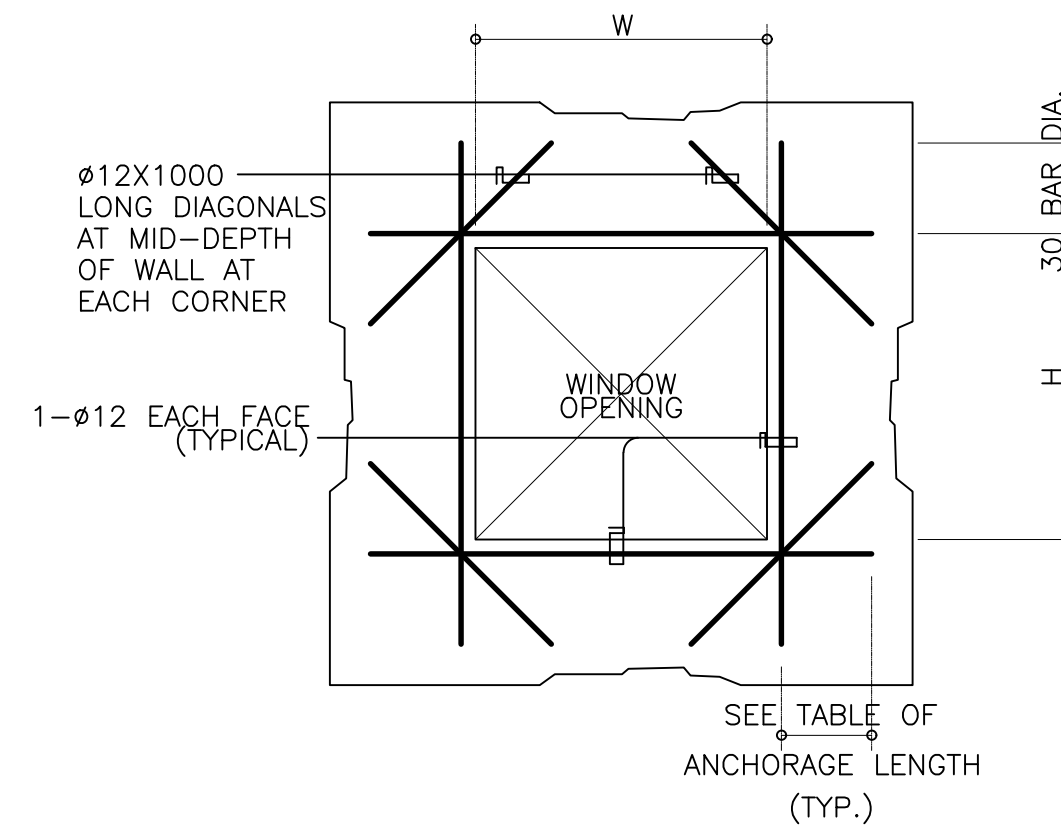
- All steel members should conform with ASTM A 36 Steel Specifications.
- Welds should be E 60 Electrodes and should conform to the Standard Code for Welding in Building Construction. All welds shall develop at least 100% of the structural steel member strength.
- In actual fabrication of steel trusses, members meeting at a point shall have their gravity axis intersect as nearly as practicable at a common point to avoid eccentricity.
- The Contractor shall verify all dimensions and conditions at the site before proceeding with the work.
- The Contractor shall provide temporary erection bracing and shoring for all structural members as required for structural stability during all phases of construction.
- The Contractor shall be responsible for the accurate location of all steel works including items used to attach materials to other parts of the work.
- The Contractor shall see to it that any or all items of work which are to be built into the works of other trades are installed at the proper time.
- The Contractor shall submit for approval samples, shop and erection drawings, showing in detail the proposed design, fabrication and erection. No work shall be started until these samples and drawings have been approved.



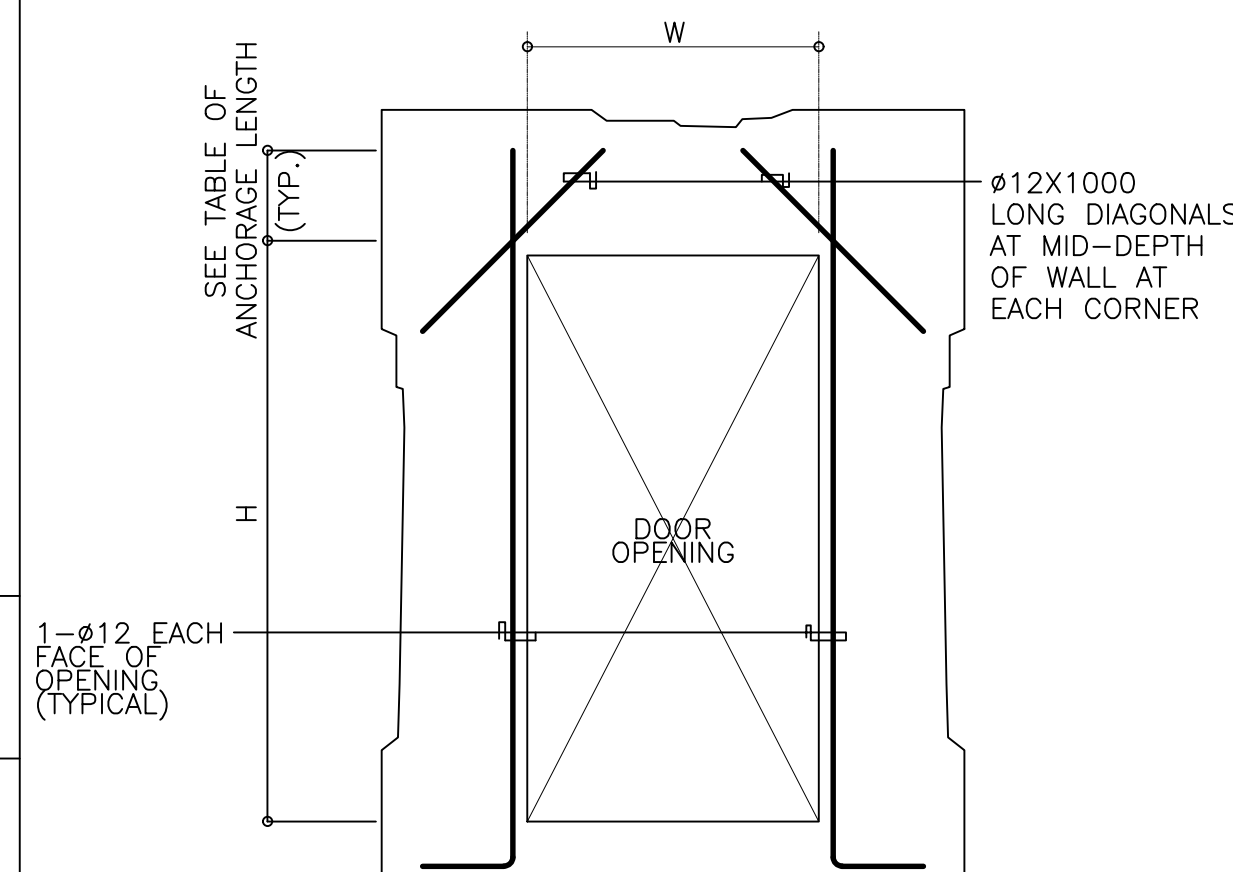
01 COLUMN ELEV. SHOWING DOWELS AND TIES SPACING DETAIL



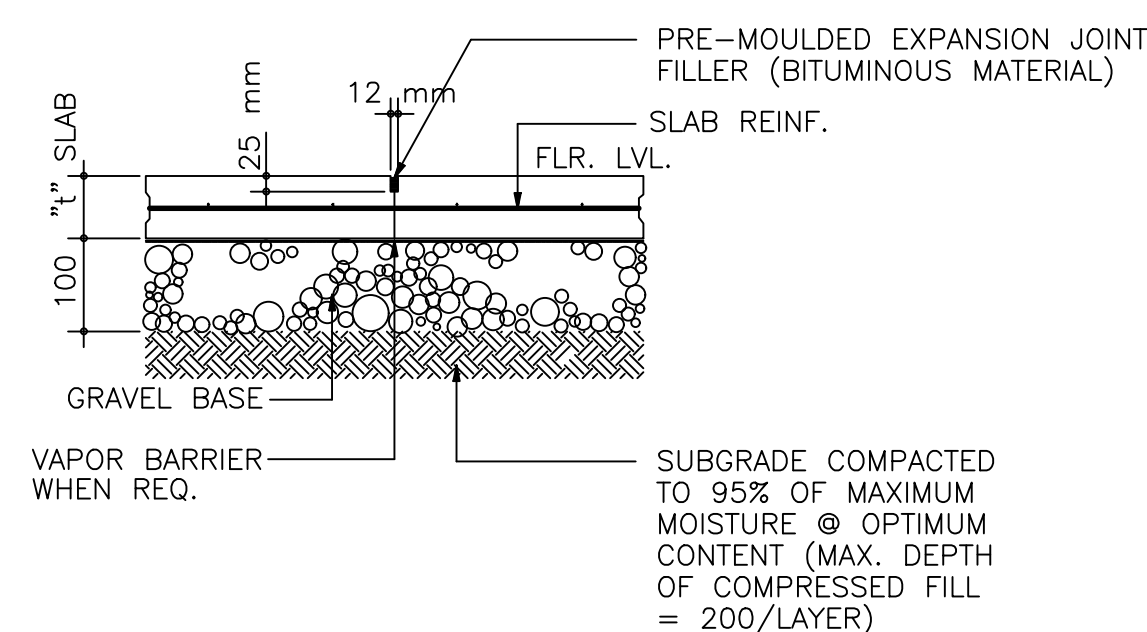
02 COLUMN LAP SPlice AND EXT. GIRDER TO COLUMN CONNECTION DETAIL



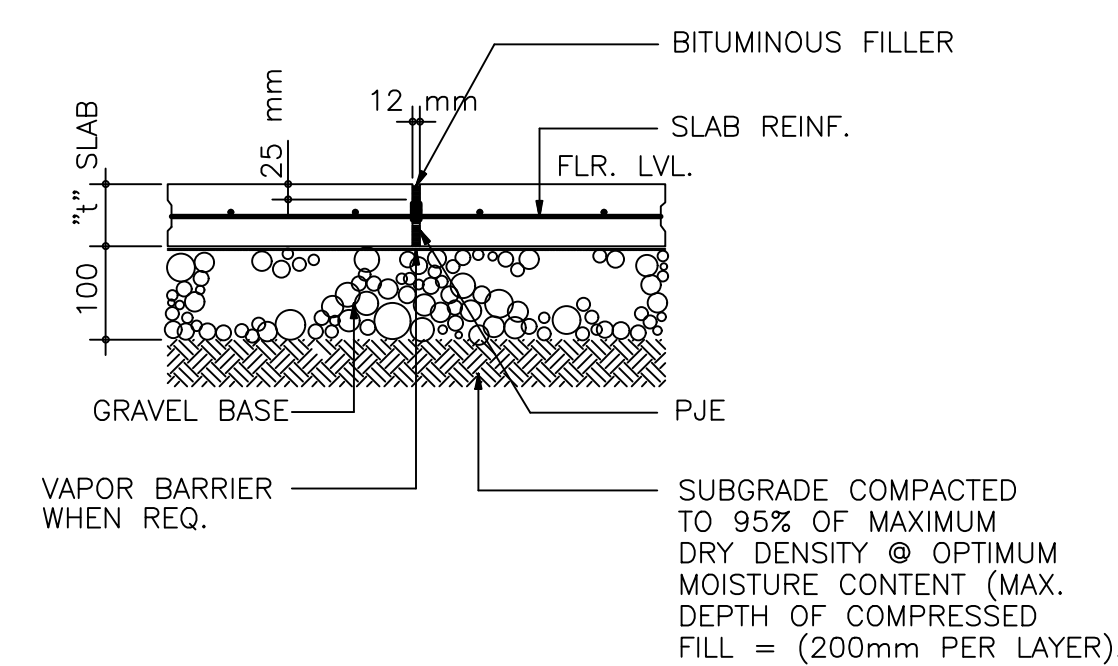
03 WINDOW OPENING DETAIL



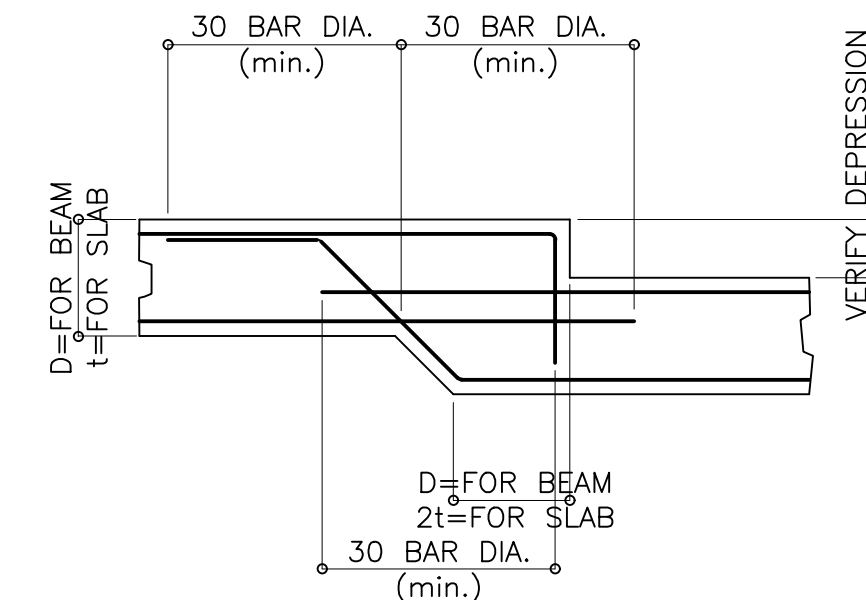
04 DOOR OPENING DETAIL



05 SLAB-ON-GRADE EXPANSION JOINT DETAIL

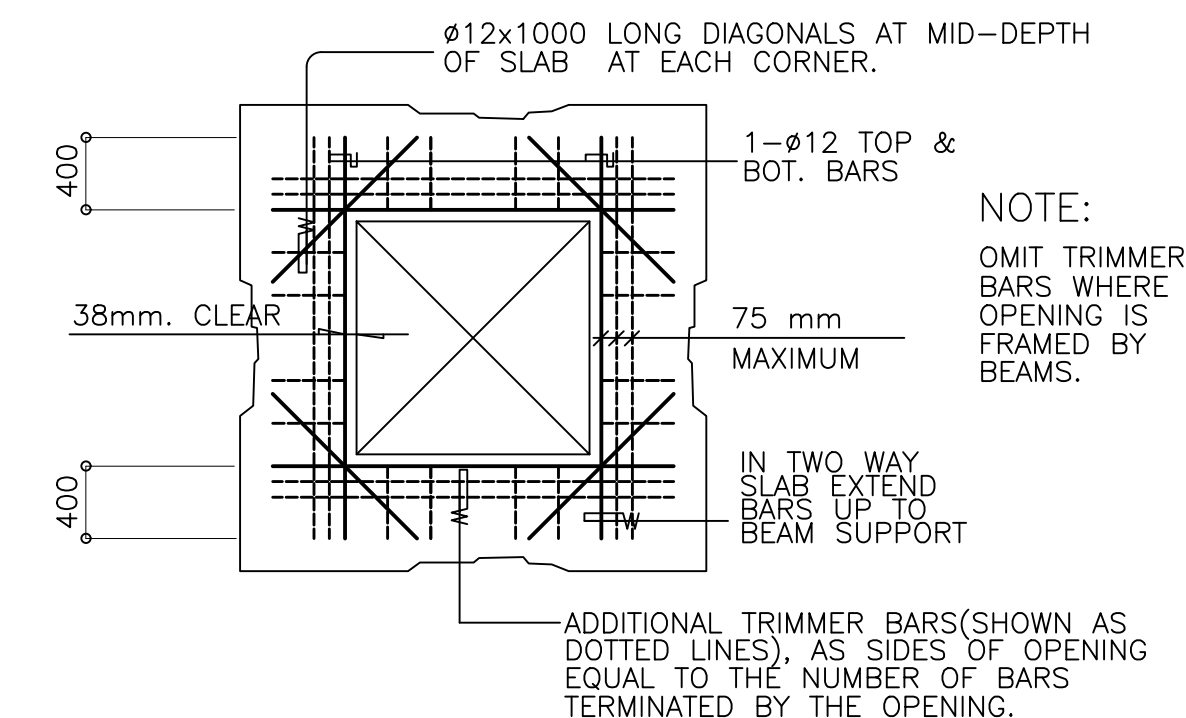


06 SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL



07 BEAM/SLAB CHANGE SOFFIT DETAIL

- NOTE:  
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (SHOWN AS DOTTED LINES) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF INTERRUPTED BARS BY THE OPENING.  
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.



08 SLAB OPENING DETAIL



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O.R. | DATE: 141342 | 16JULY15  
PTR: 7805115  
DATE ISS: 04 JAN 2018  
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.

JAMES P. PACIS, m.asep, pice  
CIVIL / STRUCTURAL ENGINEER  
PRC No.: 52853 ASEP-SIE No.: 52853-111  
PTR No.: 7805170 ISSUED DATE: 01-04-18  
TIN No.: 102-900-986 ISSUED PLACE: G.S.C.

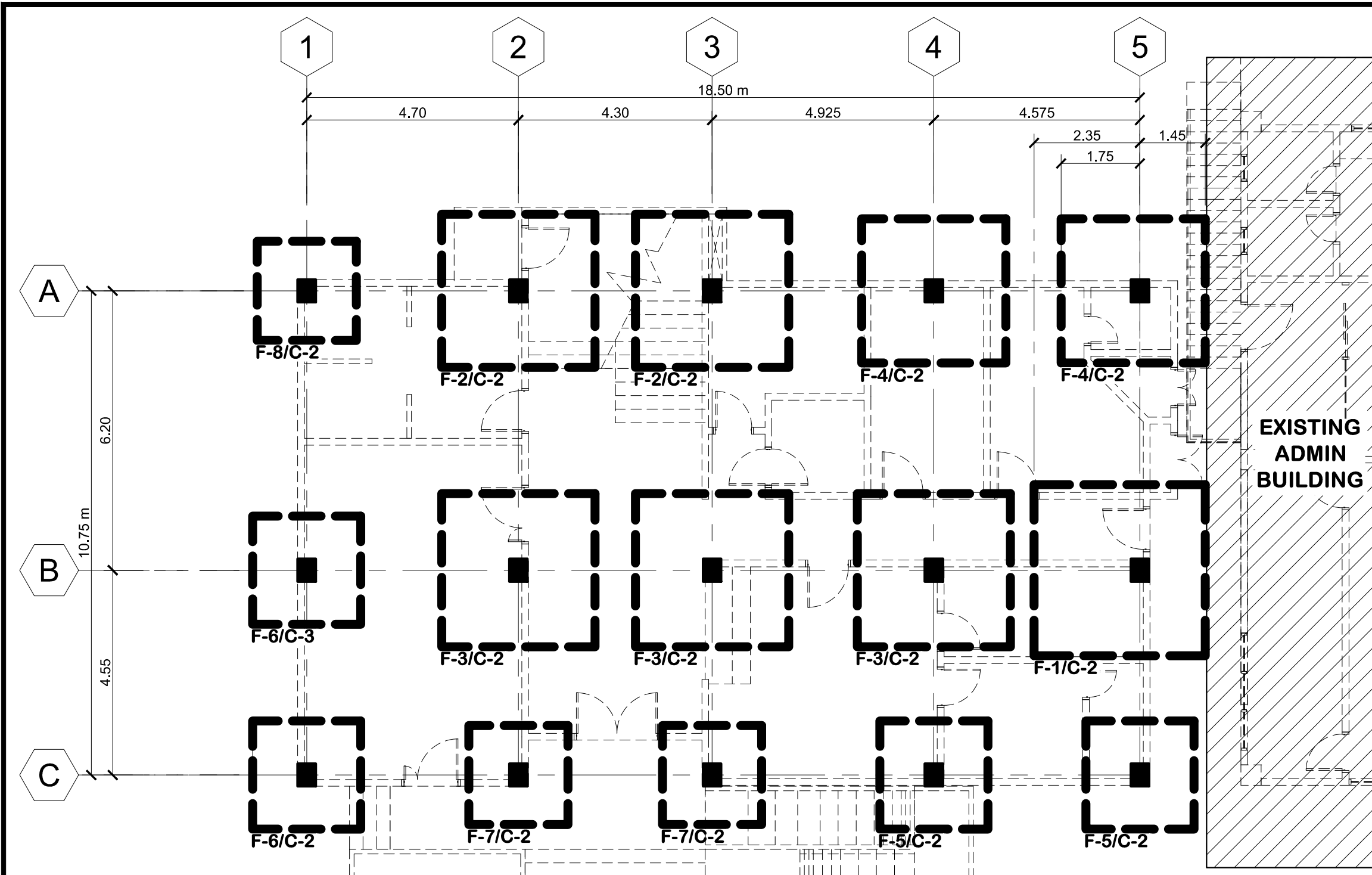
PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

PREPARED BY:  
**J.P. PACIS ENGINEERING SERVICES**  
STRUCTURAL CONSULTANT  
CHECKED BY:  
RESIDENT ENGINEER

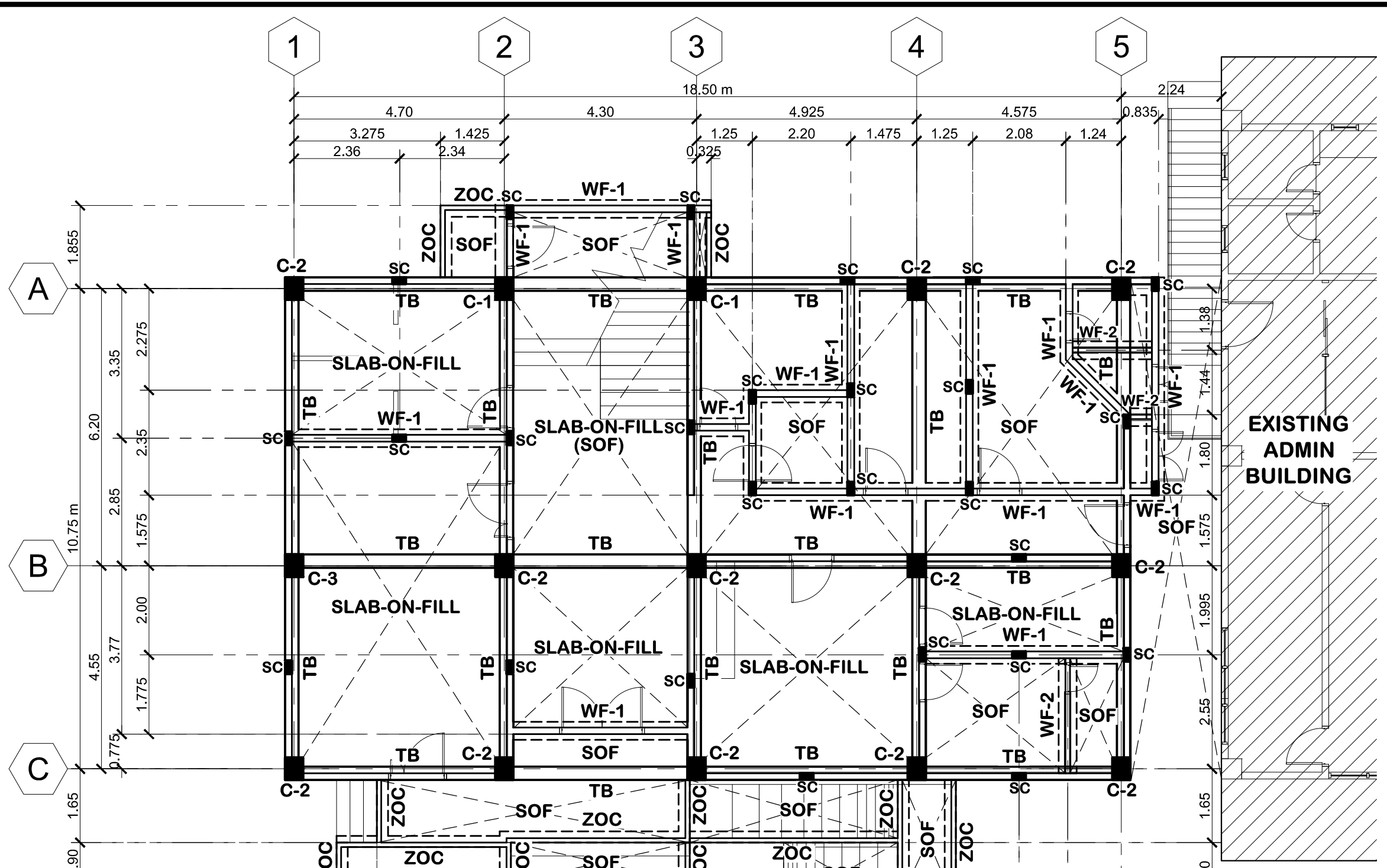
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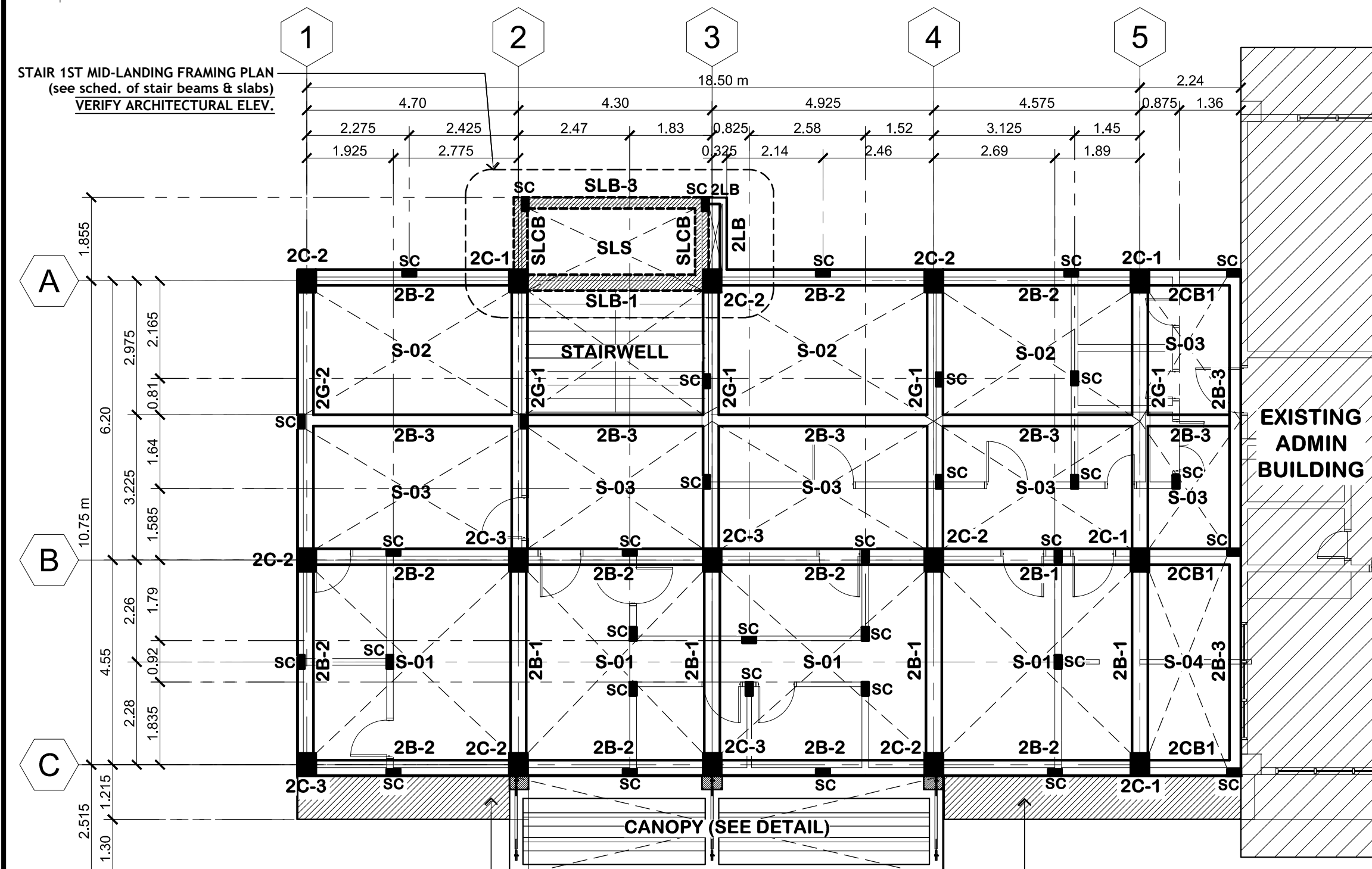


**01 MAIN FOUNDATION PLAN**  
SCALE: 1:100

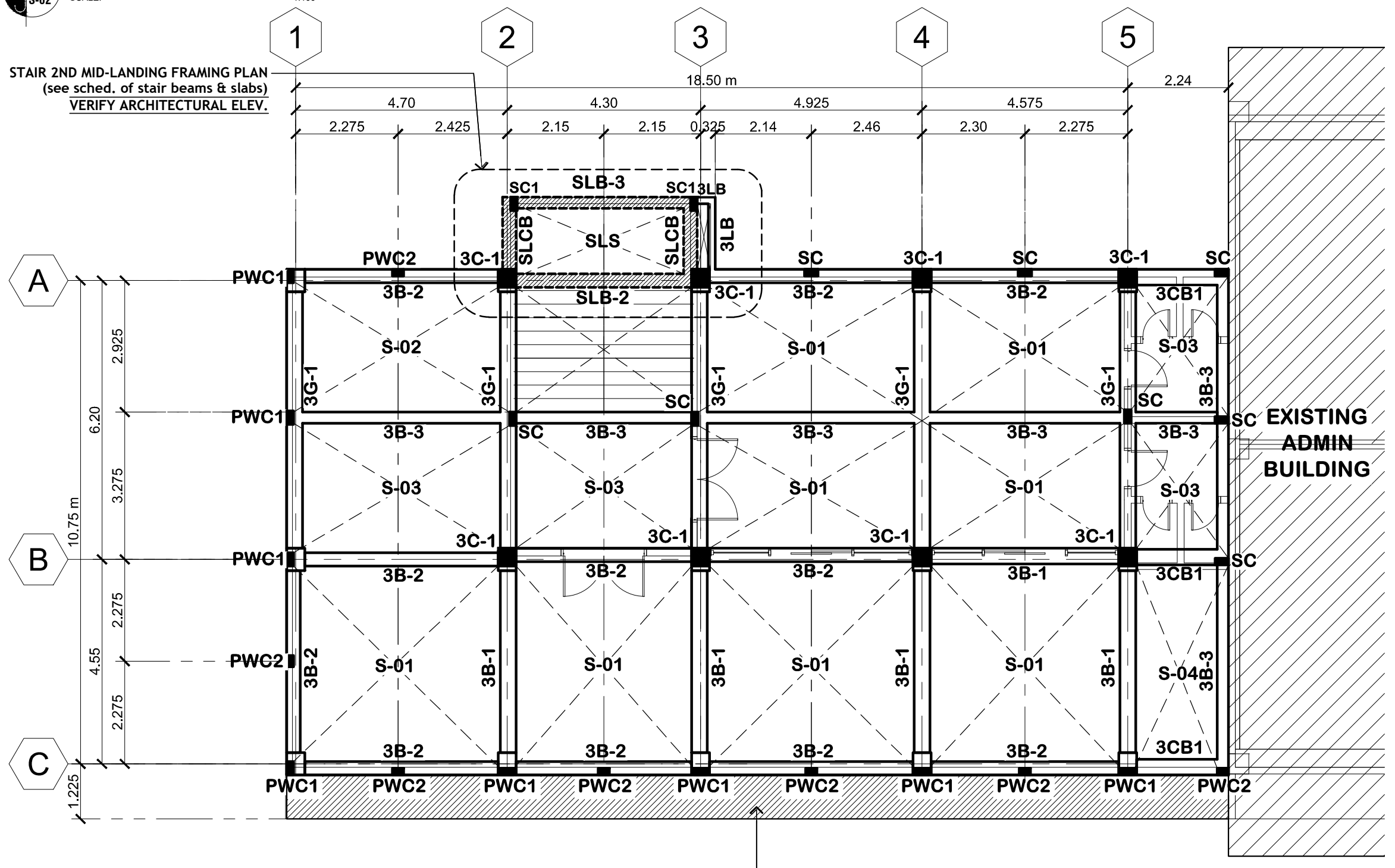
- GENERAL NOTES: unless otherwise specified**
- 1) TIE BEAMS SHALL BE SERVED AS CHB WALL FOOTINGS IF THERE ARE CHB WALLS TO BE PILED ABOVE IT. NO NEED FOR WALL FOOTING PROVISIONS. CHB WALL REBARS SHALL BE ANCHORED TO PROVIDED DOWEL REBARS IN THE BEAMS. SIZE & SPACING OF DOWEL REBARS SHALL BE THE SAME WITH CHB WALL VERTICAL REBARS.
  - 2) WALL STIFFENER COLUMNS (SC) REBARS SHALL BE ANCHORED TO EITHER THE BEAM OR WALL FOOTING WHICHEVER IS AVAILABLE. PROVIDE DOWEL REBARS THAT MATCH THE SIZE & NUMBER OF STIFFENER COLUMN REBARS.
  - 3) CONCRETING AND/OR REBARS OF STAIR MID-LANDING BEAMS & SLABS SHALL BE MONOLITHIC TO ADJACENT PRIMARY COLUMNS & BEAMS.
  - 4) PROVIDE DOWEL REBARS TO ALL ADJACENT BEAM, SLAB OR CONCRETE WALL WHICHEVER IS AVAILABLE FOR STAIR REBARS ANCHORAGE.
  - 5) SIZE OF DOWEL REBARS SHALL BE THE SAME WITH THE SIZE OF STAIR REBARS TO BE ANCHORED.
  - 6) PROVIDE DOWEL REBARS FOR REBARS ANCHORAGE OF CHB WALLS & WALL STIFFENER COLUMNS IN EITHER SLABS OR BEAMS AT SECOND & THIRD FLOOR LEVELS WHENEVER THERE ARE CHB WALLS & STIFFENER COLUMN PROVISIONS. SIZE OF DOWEL REBARS, SPACING & NUMBER SHALL BE THE SAME WITH CHB WALL & STIFFENER COLUMNS VERTICAL REBARS.
  - 7) PROVIDE 10mm Ø DEF. BAR DOWEL REBARS AT EVERY ±1.20m ALTERNATELY SPACED BOTHWAYS AT SLABS SOFFIT FOR CEILING JOIST/FRAME ANCHORAGE.
  - 8) CONCRETING AND/OR REBARS OF CONCRETE LEDGE & GUTTER SHALL BE MONOLITHIC TO ADJACENT COLUMNS & ROOF BEAMS.
  - 9) ALL DOWEL REBARS, BOLTS & OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO POURING OF CONCRETE.



**(SECONDARY) FOUNDATION PLAN**  
SCALE: 1:100



**03 SECOND FLOOR FRAMING PLAN**  
SCALE: 1:100



**04 THIRD FLOOR FRAMING PLAN**  
SCALE: 1:100

**M.T. Ang**  
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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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**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

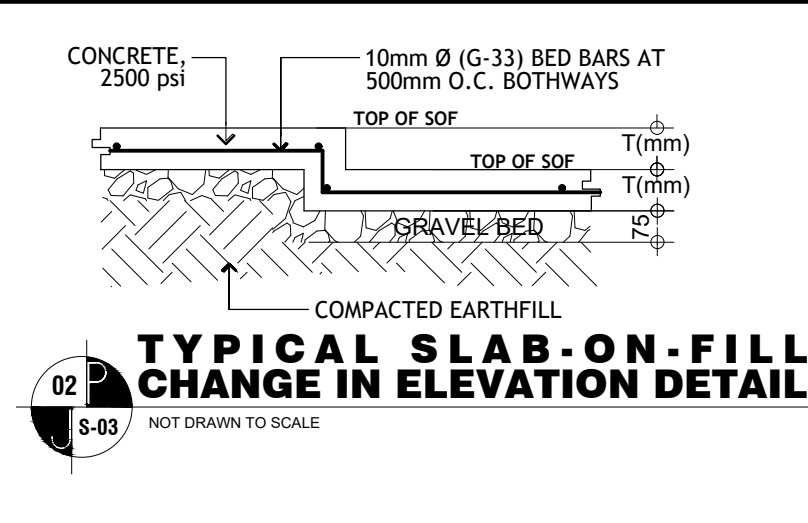
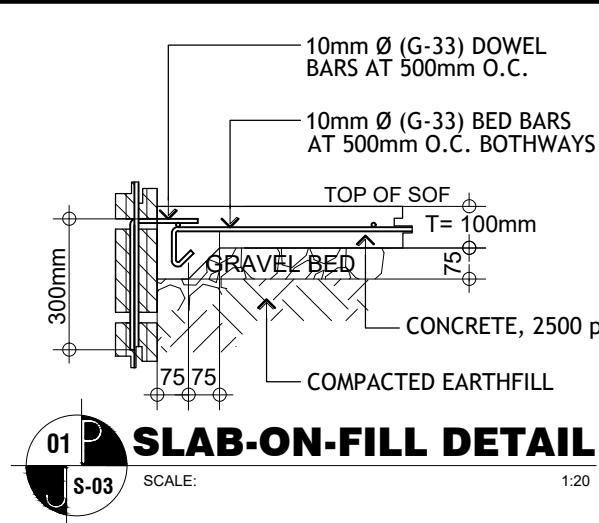
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**PREPARED BY:**  
**J.P. PACIS ENGINEERING SERVICES**  
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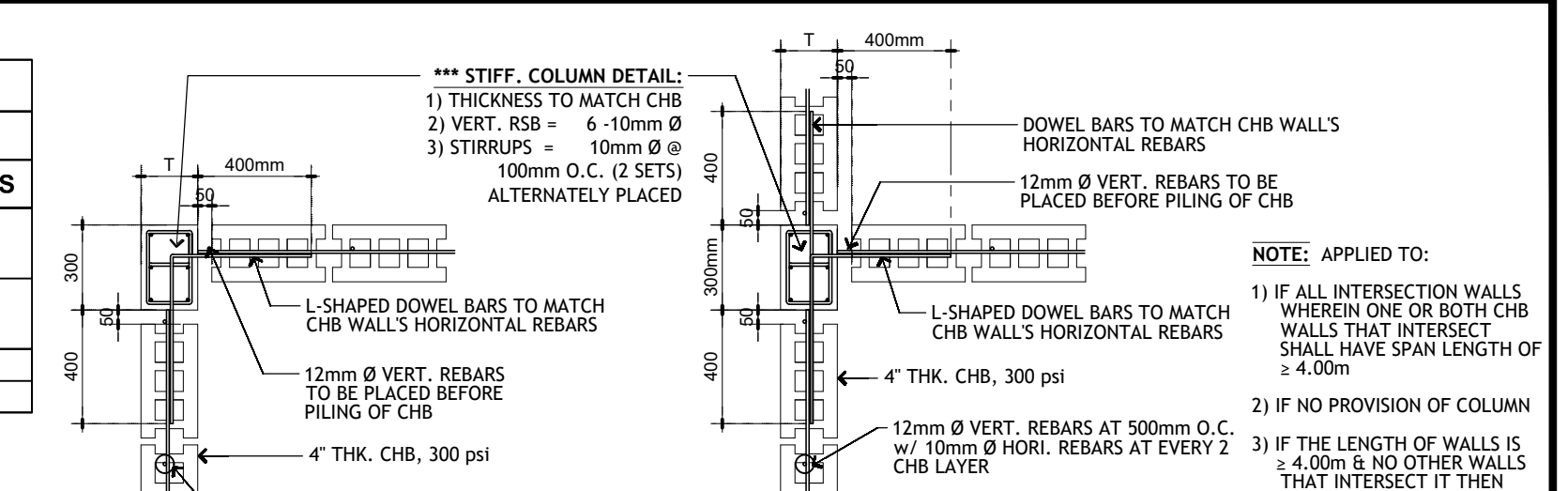
<b>SHEET NO.</b>	S-02
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SCHEDULE OF FOOTINGS					
MARK	DIMENSIONS (mm)		DEPTH (mm)	MAIN REINFORCEMENTS	REMARKS
	L	W			
F-1	3800	3800	450	2000	26 - 16mm Ø BED BARS O.C. BOTHWAYS
F-2	3400	3400	450	2000	24 - 16mm Ø BED BARS O.C. BOTHWAYS
F-3	3400	3400	400	2000	22 - 16mm Ø BED BARS O.C. BOTHWAYS
F-4	3200	3200	400	2000	22 - 16mm Ø BED BARS O.C. BOTHWAYS
F-5	2400	2400	350	2000	15 - 16mm Ø BED BARS O.C. BOTHWAYS
F-6	2400	2400	350	2000	12 - 16mm Ø BED BARS O.C. BOTHWAYS
F-7	2200	2200	350	2000	12 - 16mm Ø BED BARS O.C. BOTHWAYS
F-8	2200	2200	350	2000	10 - 16mm Ø BED BARS O.C. BOTHWAYS

NOTE:  
 f'c (concrete) 3500 psi (24.0 MPa)  
 fy (rebars) GRADE 40 (275 MPa)



SCHEDULE OF STAIR MID-LANDING SLAB					
MARK	T (mm)	LOCATION	REINFORCEMENTS		
			TRANSVERSE BARS	LONGITUDINAL BARS	
SLS STAIR LANDING SLAB	200	TOP BARS	16mm Ø CONT. BARS AT 200mm O.C.	12mm Ø CONT. BARS AT 175mm O.C.	
		BOT. BARS	16mm Ø CONT. BARS AT 200mm O.C.	12mm Ø CONT. BARS AT 175mm O.C.	
f'c (concrete)			3500 psi (24.0MPa)		
fy (rebars)			GRADE 40 for 16mmØ & bigger / GRADE 33 for 12mmØ & smaller		

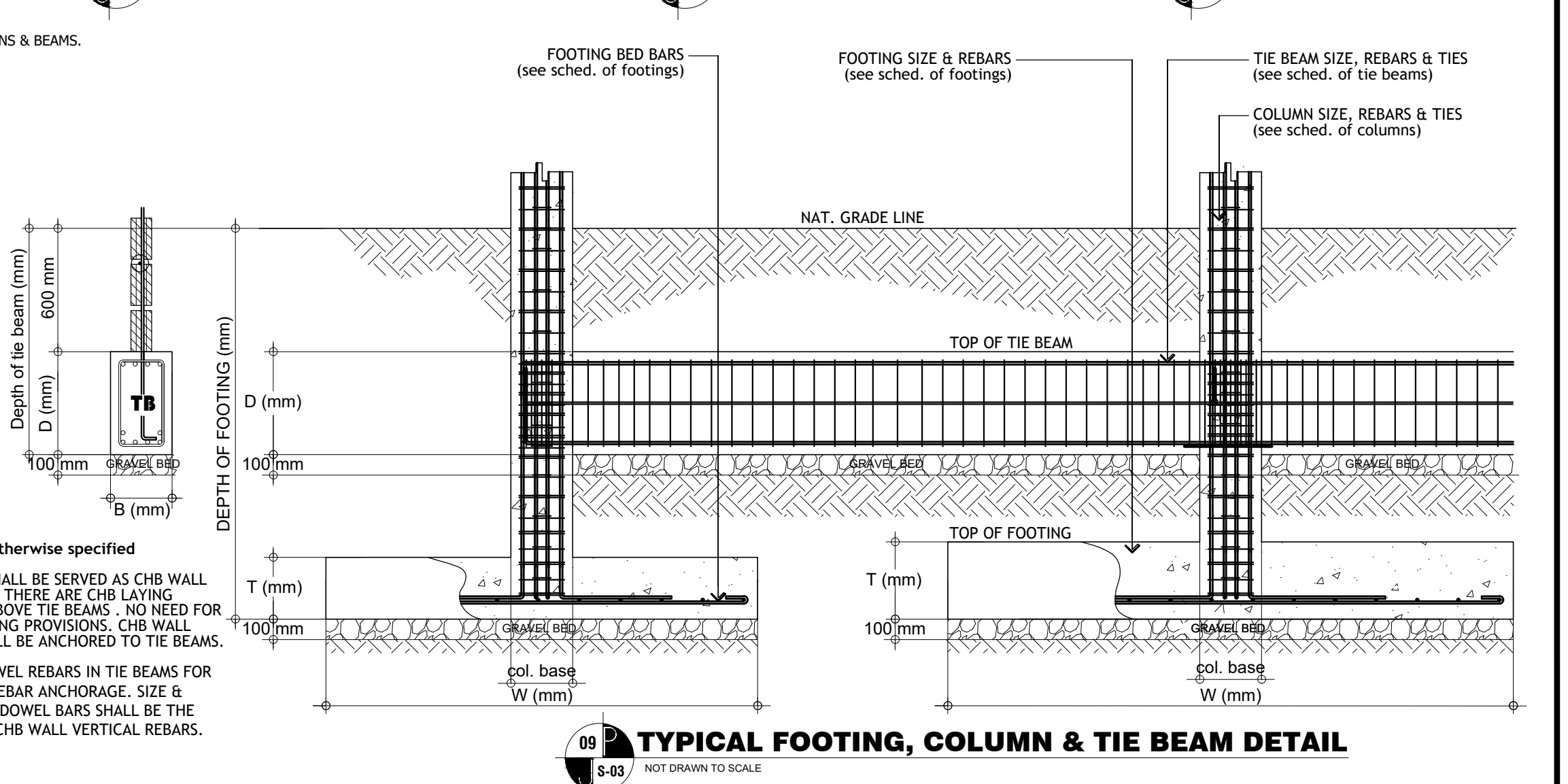
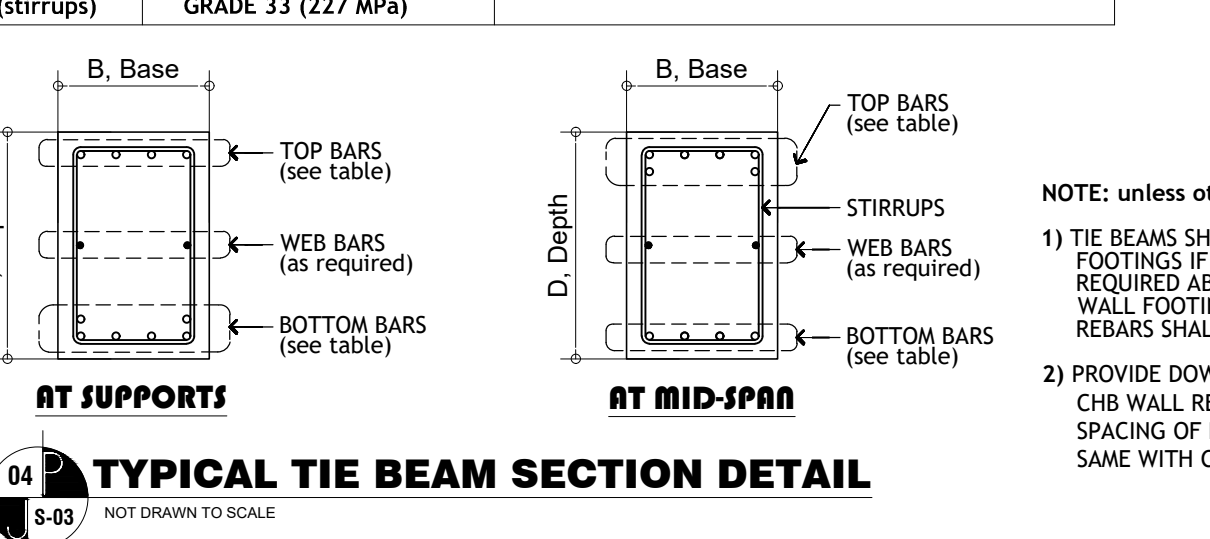
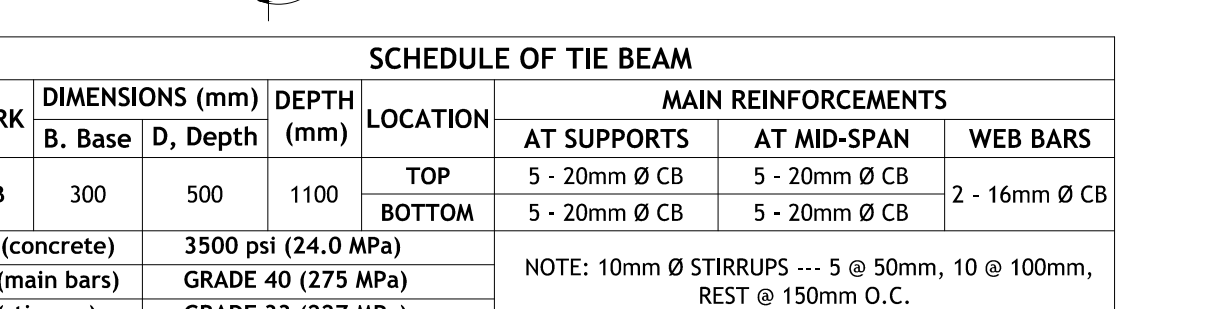
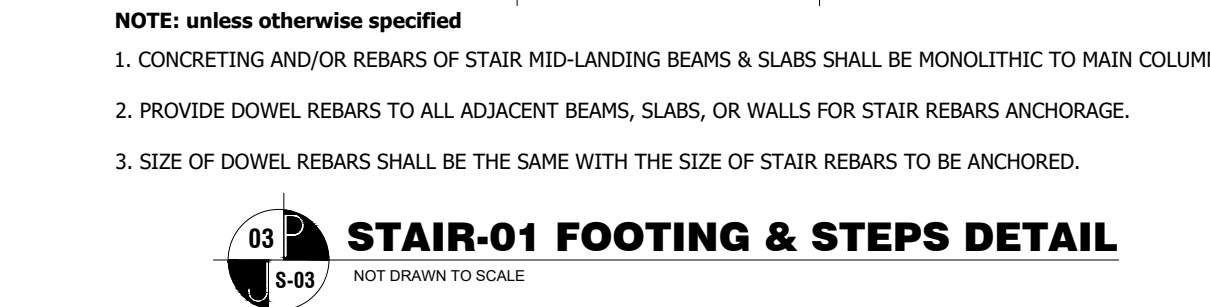
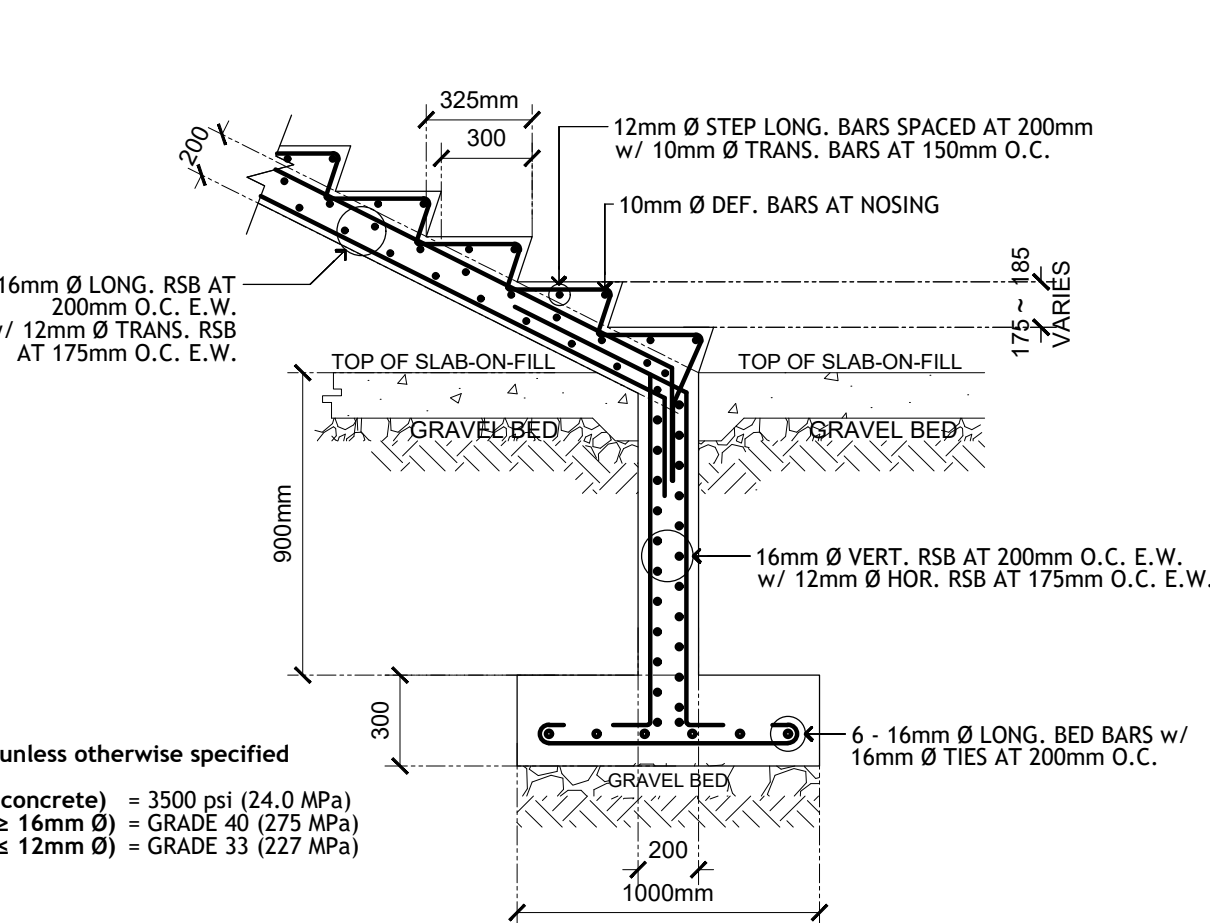


SCHEDULE OF PRIMARY & SECONDARY COLUMNS					
"MARK"	DIMENSIONS (b x d) & BAR ARRANGEMENT	REINFORCEMENTS	f'c (concrete)	fy (steel bars)	
				main bars	stirrups
C-1	b=400 mm, d=500 mm	VERTICAL REBARS: 24 - 20MM Ø MAIN LATERAL TIES: 10MM Ø SECONDARY TIES: 10MM Ø ALTERNATE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
C-2 2C-1	b=400 mm, d=500 mm	VERTICAL REBARS: 20 - 20MM Ø MAIN LATERAL TIES: 10MM Ø SECONDARY TIES: 10MM Ø ALTERNATE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
C-3 2C-2	b=400 mm, d=500 mm	VERTICAL REBARS: 16 - 20MM Ø MAIN LATERAL TIES: 10MM Ø SECONDARY TIES: 10MM Ø ALTERNATE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
2C-3	b=400 mm, d=500 mm	VERTICAL REBARS: 12 - 20MM Ø MAIN LATERAL TIES: 10MM Ø SECONDARY TIES: 10MM Ø DOUBLE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
3C-1	b=400 mm, d=400 mm	VERTICAL REBARS: 20 - 20MM Ø MAIN LATERAL TIES: 10MM Ø SECONDARY TIES: 10MM Ø ALTERNATE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
PWC1 PARAPET WALL COLUMN	300 mm x 150 mm	VERTICAL REBARS: 4 - 20MM Ø MAIN LATERAL TIES: 10MM Ø DOUBLE	3500 PSI (24.0 MPA)	GRADE 40 (275 MPA)	GRADE 33 (227 MPA)
PWC2 PARAPET WALL COLUMN	250 mm x 150 mm	VERTICAL REBARS: 4 - 12MM Ø MAIN LATERAL TIES: 10MM Ø	3000 PSI (21.0 MPA)	GRADE 33 (227 MPA)	GRADE 33 (227 MPA)
SC1 WALL STIFF. COLUMN	300 mm x 150 mm	VERTICAL REBARS: 6 - 12MM Ø MAIN LATERAL TIES: 10MM Ø DOUBLE	3000 PSI (21.0 MPA)	GRADE 33 (227 MPA)	GRADE 33 (227 MPA)
SC WALL STIFF. COLUMN	300 mm x 150 mm	VERTICAL REBARS: 6 - 10MM Ø MAIN LATERAL TIES: 10MM Ø	3000 PSI (21.0 MPA)	GRADE 33 (227 MPA)	GRADE 33 (227 MPA)

SCHEDULE OF STAIR MID-LANDING BEAMS					
MARK	DIMENSIONS (mm)	LOCATION	MAIN REINFORCEMENTS		
			AT SUPPORTS	AT MID-SPAN	WEB BARS
SLB-1	350 x 500	TOP BOTTOM	3 - 25mm Ø CB + 2 - 25mm Ø EB 3 - 25mm Ø CB	3 - 25mm Ø CB 3 - 25mm Ø CB + 2 - 25mm Ø EB	2 - 16mm Ø CB
SLB-2	300 x 500	TOP BOTTOM	3 - 20mm Ø CB + 3 - 20mm Ø EB 3 - 20mm Ø CB	3 - 20mm Ø CB 3 - 20mm Ø CB + 3 - 20mm Ø EB	2 - 16mm Ø CB
SLB-3	250 x 350	TOP BOTTOM	2 - 16mm Ø CB + 2 - 16mm Ø EB 2 - 16mm Ø CB	2 - 16mm Ø CB 2 - 16mm Ø CB + 2 - 16mm Ø EB	2 - 16mm Ø CB
SLCB	300 x 400	TOP BOTTOM	5 - 20mm Ø CB 3 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 350mm)	2 - 16mm Ø CB

NOTE:  
 f'c (concrete) 3500 psi (24.0 MPA)  
 fy (main bars) GRADE 40 (275 MPA)  
 fy (stirrups) GRADE 33 (227 MPA)

STIRRUPS:  
 A --- 10mm Ø: 5 @ 50mm, 5 @ 75mm, 10 @ 100mm, 5 @ 125mm, REST @ 150mm O.C.  
 B --- 10mm Ø: 5 @ 50mm, 10 @ 100mm and REST @ 150mm O.C.  
 C --- 10mm Ø: 5 @ 50mm and REST @ 100mm O.C.



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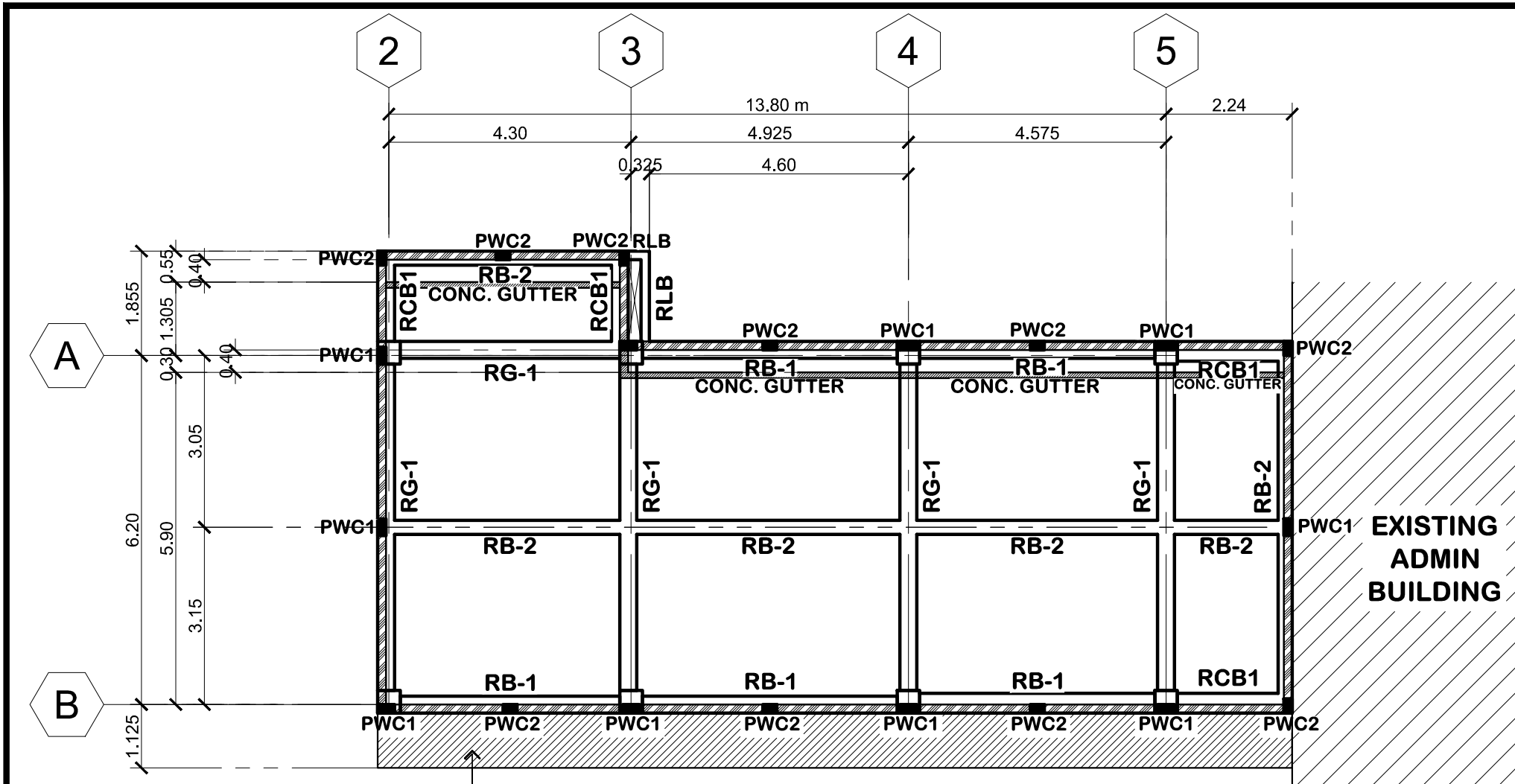
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 PRC No.: 52853 ASEP-SIE No.: 52853-114  
 PTR No.: 7805170 ISSUED DATE: 01-04-18  
 T I N No.: 102-900-986 ISSUED PLACE: G.S.C.

PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

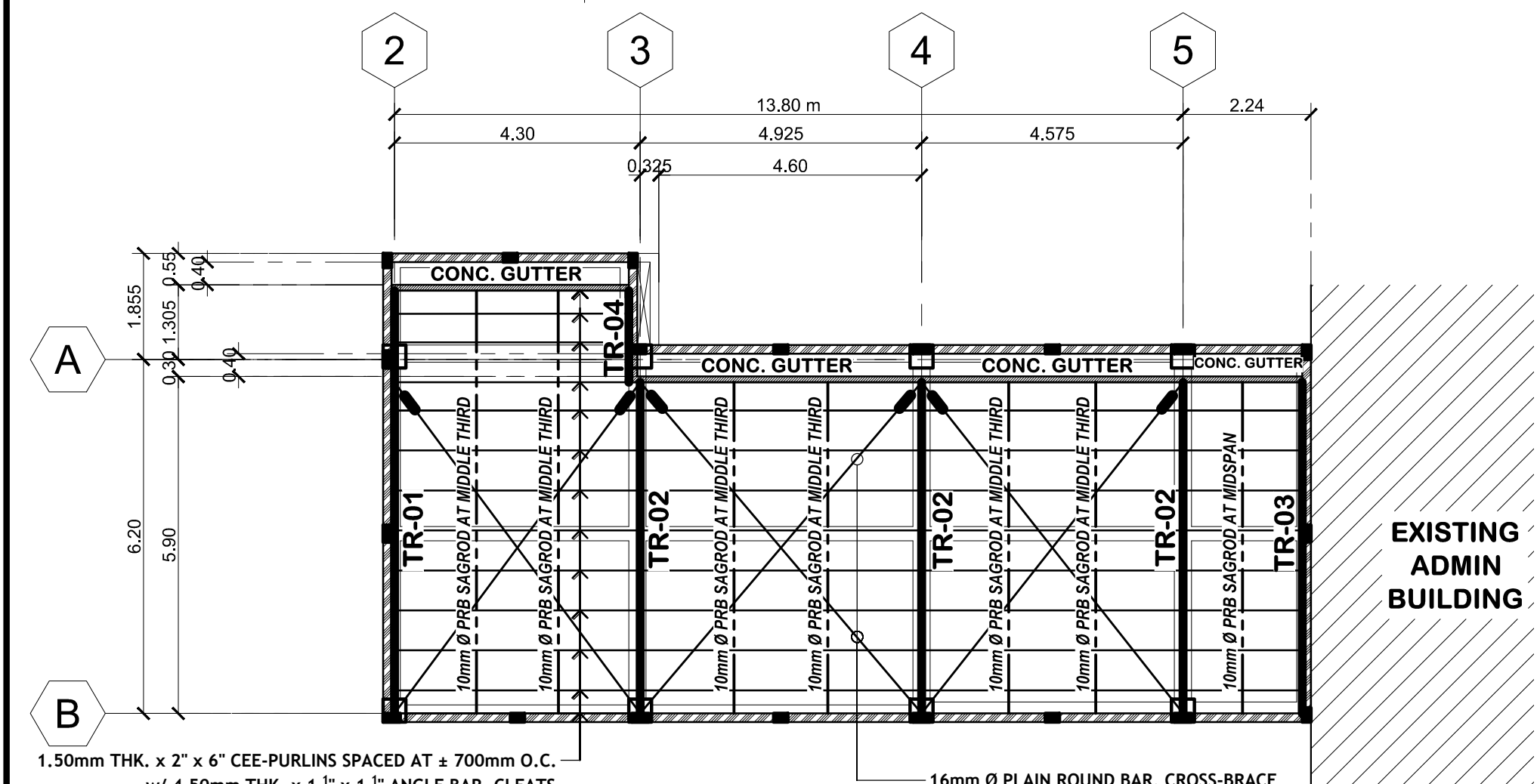
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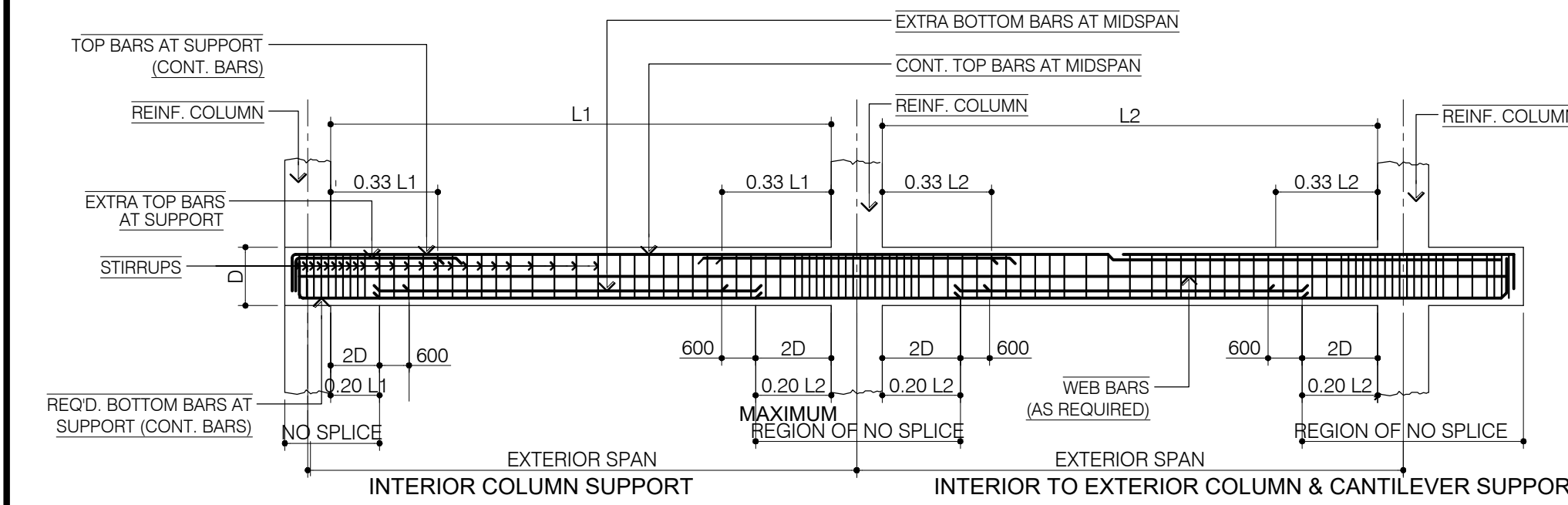
SHEET NO.  
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**01 ROOF BEAM FRAMING PLAN**  
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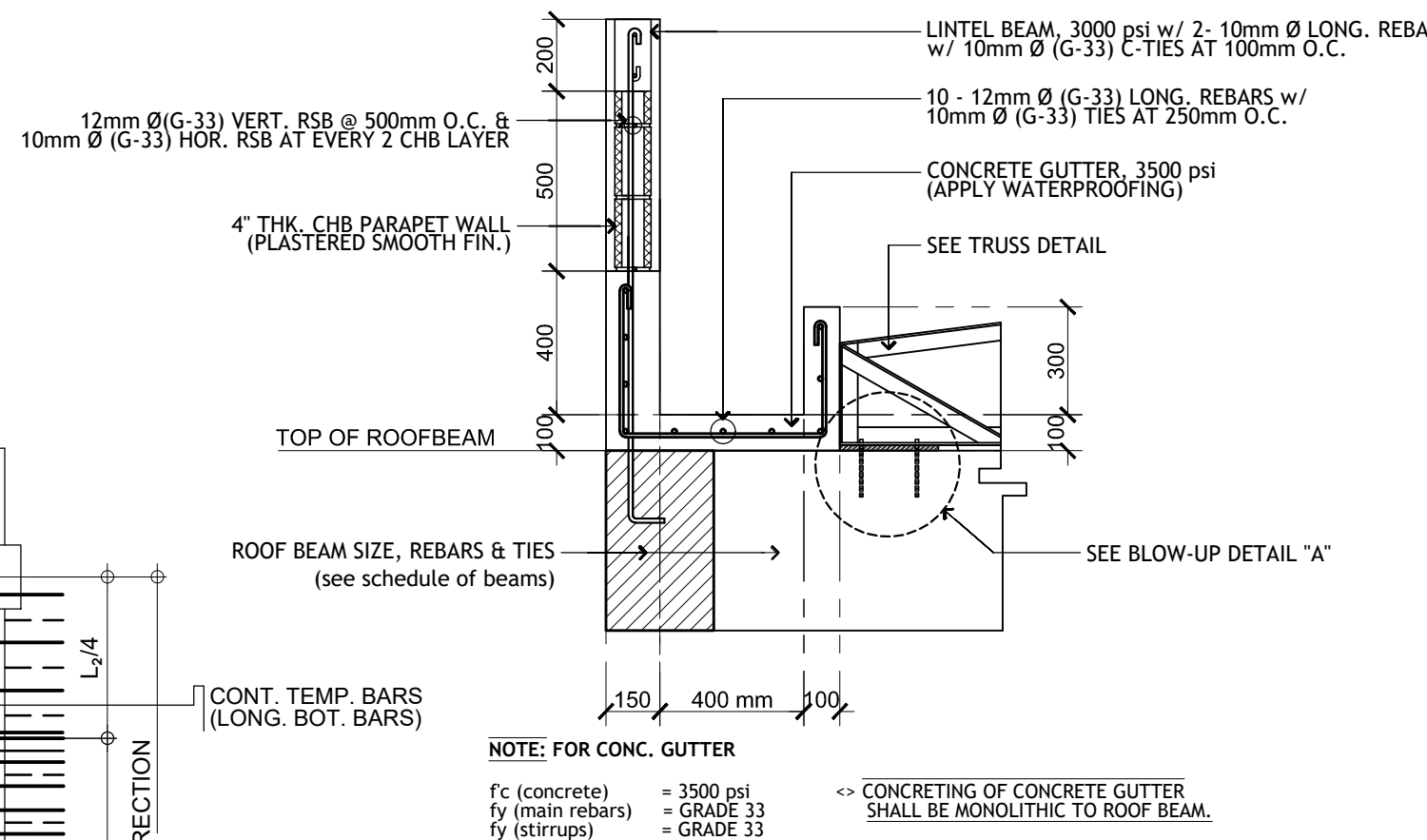
**02 ROOF FRAMING PLAN**  
SCALE: 1:100



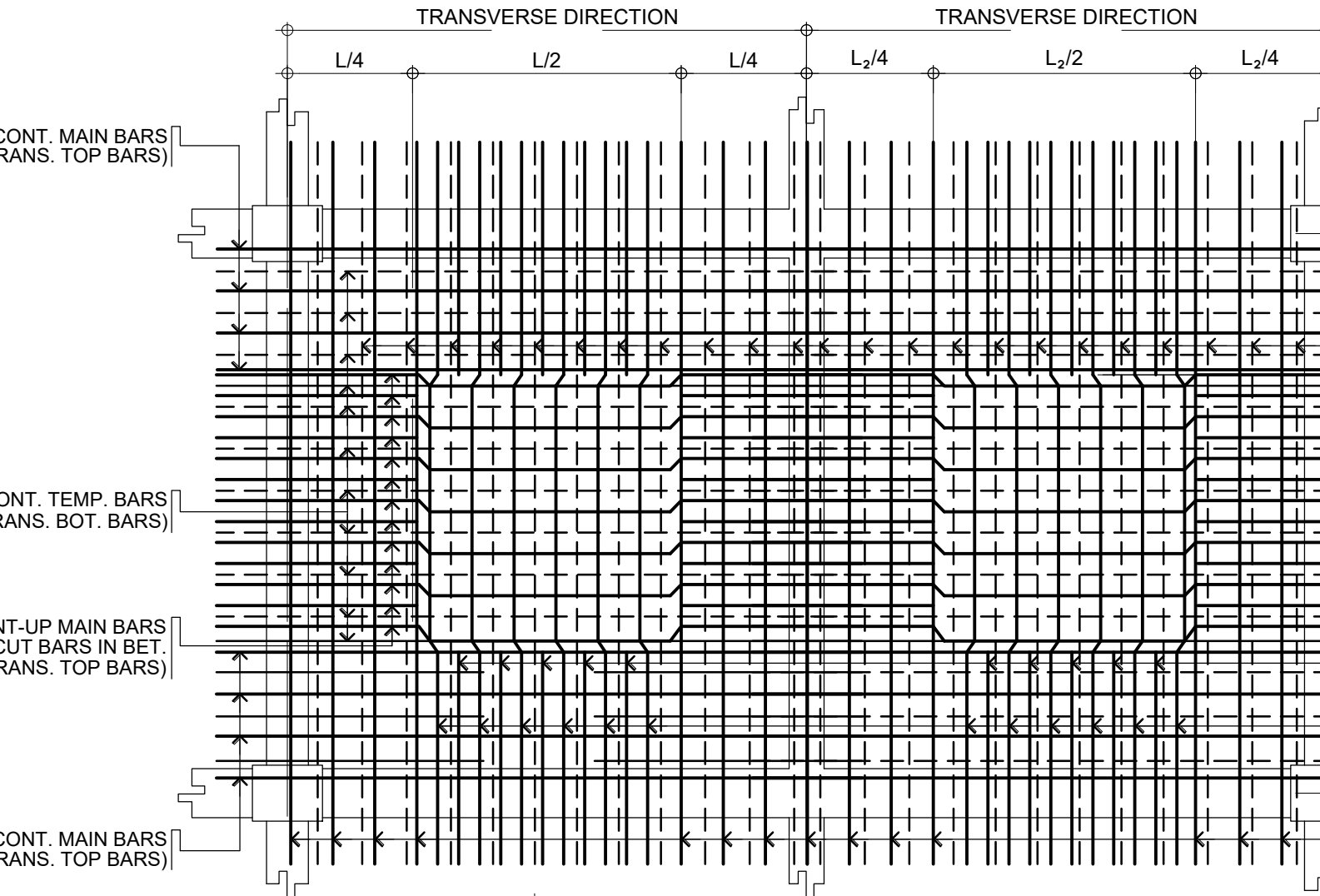
**03 TYPICAL GIRDER/BEAM LONGITUDINAL SECTION DETAIL**  
SCALE: NOT DRAWN TO SCALE

SCHEDULE OF PRIMARY & SECONDARY BEAMS						
MARK	DIMENSIONS (mm) B. Base   D. Depth	LOCATION	MAIN REINFORCEMENTS			
			AT SUPPORTS	AT MID-SPAN	WEB BARS	STIRRUPS
<b>SECOND FLOOR LEVEL</b>						
2G-1 / 2B-1	350   500	TOP	3 - 25mm Ø CB + 4 - 25mm Ø EB	3 - 25mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	4 - 25mm Ø CB	4 - 25mm Ø CB + 3 - 25mm Ø EB		
2G-2 / 2B-2	350   500	TOP	3 - 25mm Ø CB + 2 - 25mm Ø EB	3 - 25mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	3 - 25mm Ø CB	3 - 25mm Ø CB + 2 - 25mm Ø EB		
2B-3	250   350	TOP	3 - 20mm Ø CB + 2 - 20mm Ø EB	3 - 20mm Ø CB	2 - 16mm Ø CB	B
		BOTTOM	3 - 20mm Ø CB	3 - 20mm Ø CB + 2 - 20mm Ø EB		
2LB	150   250	TOP	2 - 10mm Ø CB	LINEEL BEAM (SECONDARY BEAM)	---	C
		BOTTOM	2 - 10mm Ø CB	---		
2CB1	350   500	TOP	6 - 25mm Ø CB	CANTILEVER BEAM (TAPERED TO 350mm)	2 - 16mm Ø CB	C
		BOTTOM	3 - 25mm Ø CB	---		
<b>THIRD FLOOR LEVEL</b>						
3G-1 / 3B-1	350   500	TOP	3 - 25mm Ø CB + 3 - 25mm Ø EB	3 - 25mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	3 - 25mm Ø CB	3 - 25mm Ø CB + 3 - 25mm Ø EB		
3B-2	300   500	TOP	3 - 20mm Ø CB + 3 - 20mm Ø EB	3 - 20mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	3 - 20mm Ø CB	3 - 20mm Ø CB + 3 - 20mm Ø EB		
3B-3	250   350	TOP	2 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 20mm Ø CB	2 - 16mm Ø CB	B
		BOTTOM	2 - 20mm Ø CB	2 - 20mm Ø CB + 2 - 20mm Ø EB		
3LB	150   250	TOP	2 - 10mm Ø CB	LINEEL BEAM (SECONDARY BEAM)	---	C
		BOTTOM	2 - 10mm Ø CB	---		
3CB1	350   500	TOP	6 - 25mm Ø CB	CANTILEVER BEAM (TAPERED TO 350mm)	2 - 16mm Ø CB	C
		BOTTOM	3 - 25mm Ø CB	---		
<b>ROOF BEAM LEVEL</b>						
RG-1	300   500	TOP	3 - 20mm Ø CB + 3 - 20mm Ø EB	3 - 20mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	3 - 20mm Ø CB	3 - 20mm Ø CB + 3 - 20mm Ø EB		
RB-1	300   400	TOP	2 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 20mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	2 - 20mm Ø CB	2 - 20mm Ø CB + 2 - 20mm Ø EB		
RB-2	250   350	TOP	2 - 16mm Ø CB + 2 - 16mm Ø EB	2 - 16mm Ø CB	2 - 16mm Ø CB	B
		BOTTOM	2 - 16mm Ø CB	2 - 16mm Ø CB + 2 - 16mm Ø EB		
RLB	150   200	TOP	2 - 10mm Ø CB	LINEEL BEAM (SECONDARY BEAM)	---	C
		BOTTOM	2 - 10mm Ø CB	---		
RCB1	300   400	TOP	4 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 350mm)	2 - 16mm Ø CB	C
		BOTTOM	2 - 20mm Ø CB	---		
<b>NOTE:</b>						
f'c (concrete)			3500 psi (24.0 MPa)			
fy (≥ 16mm Ø)			GRADE 40 (275 MPa)			
fy (≤ 12mm Ø)			GRADE 33 (227 MPa)			
<b>STIRRUPS:</b>			A --- 10mm Ø: 5 @ 50mm, 5 @ 75mm, 10 @ 100mm, 5 @ 125mm, REST @ 150mm O.C.			
			B --- 10mm Ø: 5 @ 50mm, 10 @ 100mm and REST @ 150mm O.C.			
			C --- 10mm Ø: 5 @ 50mm and REST @ 100mm O.C.			

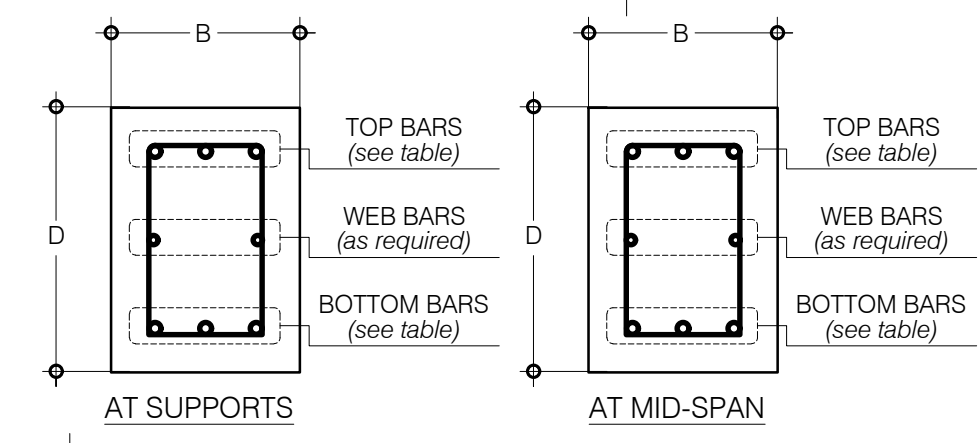
SCHEDULE OF SUSPENDED SLABS						
MARK	T (mm)	LOCATION	REINFORCEMENTS			
			ALONG TRANSVERSE DIRECTION	ALONG LONGITUDINAL DIRECTION		
S-01 TWO-WAY SLAB	100	MAIN TOP BARS	AT L/2	12mm Ø BENT-UP BARS AT 150mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	12mm Ø BENT-UP BARS AT 150mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	
			AT L/4	12mm Ø CONT. BARS AT 150mm O.C.	12mm Ø CONT. BARS AT 150mm O.C.	
S-02 TWO-WAY SLAB	100	MAIN TOP BARS	AT L/2	12mm Ø BENT-UP BARS AT 200mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	12mm Ø BENT-UP BARS AT 200mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN	
			AT L/4	12mm Ø CONT. BARS AT 200mm O.C.	12mm Ø CONT. BARS AT 200mm O.C.	
S-03 TWO-WAY SLAB	100	MAIN TOP BARS	AT L/2	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	
			AT L/4	12mm Ø CONT. BARS AT 300mm O.C.	12mm Ø CONT. BARS AT 300mm O.C.	
S-04 TWO-WAY SLAB	100	MAIN TOP BARS	AT L/2	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	
			AT L/4	12mm Ø CONT. BARS AT 300mm O.C.	12mm Ø CONT. BARS AT 300mm O.C.	
<b>BOTTOM TEMP. BARS</b>			12mm Ø CONT. BARS AT 150mm O.C.	12mm Ø CONT. BARS AT 150mm O.C.		
<b>BOTTOM TEMP. BARS</b>			12mm Ø CONT. BARS AT 200mm O.C.	12mm Ø CONT. BARS AT 200mm O.C.		
<b>BOTTOM TEMP. BARS</b>			12mm Ø CONT. BARS AT 300mm O.C.	12mm Ø CONT. BARS AT 300mm O.C.		
<b>BOTTOM TEMP. BARS</b>			12mm Ø CONT. BARS AT 300mm O.C.	12mm Ø CONT. BARS AT 300mm O.C.		
<b>BOTTOM TEMP. BARS</b>			10mm Ø CONT. BARS AT 200mm O.C.	10mm Ø CONT. BARS AT 200mm O.C.		
f'c (concrete)			3500 psi (24.0MPa)			
fy (rebars)			GRADE 33 (227 MPa)			



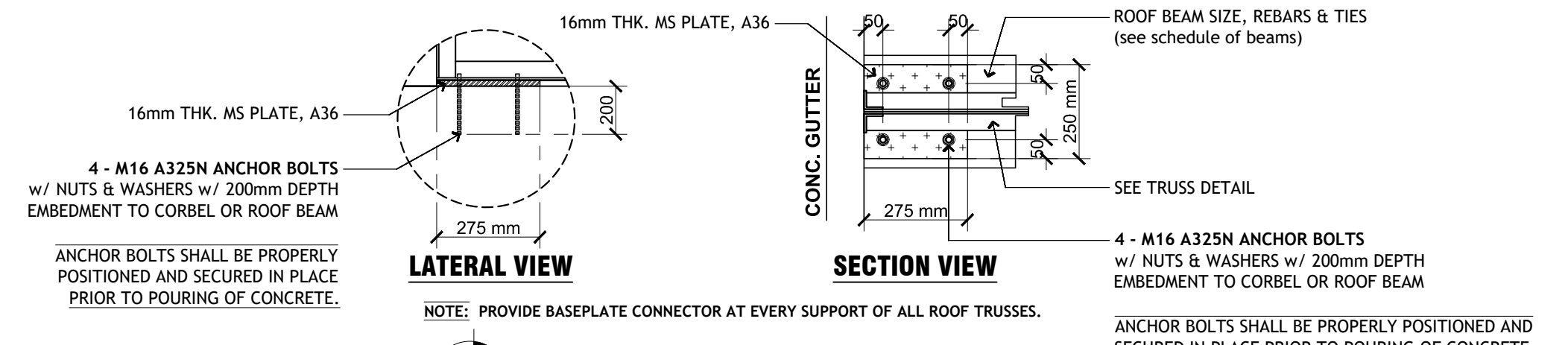
**06 TYPICAL CONCRETE GUTTER DETAIL**  
SCALE: NOT DRAWN TO SCALE



**05 TYPICAL TWO-WAY SLAB DETAIL**  
SCALE: NOT DRAWN TO SCALE



**04 TYPICAL BEAM SECTION DETAIL**  
SCALE: NOT DRAWN TO SCALE



**07 TYPICAL BLOW-UP DETAIL "A"**  
SCALE: 1:15

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**MICHAEL T. ANG, fuap**  
ARCHITECT

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.

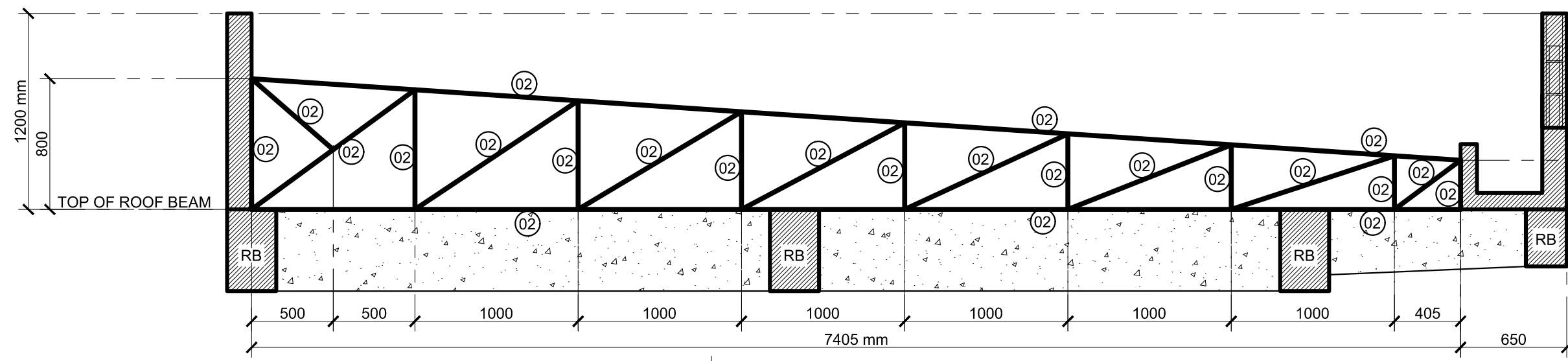
**JAMES P. PACIS, m.asep, plice**  
CIVIL / STRUCTURAL ENGINEER  
PRC No.: 52853 ASEP-SIE No.: 52853-111  
PTR No.: 7805170 ISSUED DATE: 01-04-18  
T I N No.: 102-900-986 ISSUED PLACE: G.S.C.

PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

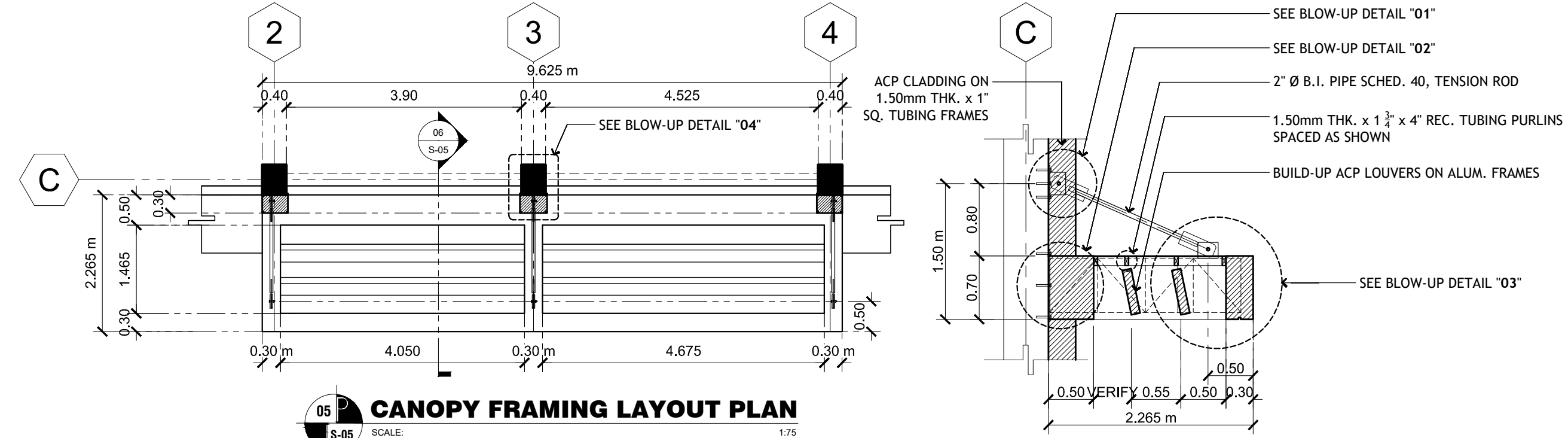
APPROVED BY  
**CHUCHI P. GARGANERA, PH. D.**  
DIRECTOR III  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:  
**J.P. PACIS ENGINEERING SERVICES**  
STRUCTURAL CONSULTANT  
CHECKED BY:  
RESIDENT ENGINEER

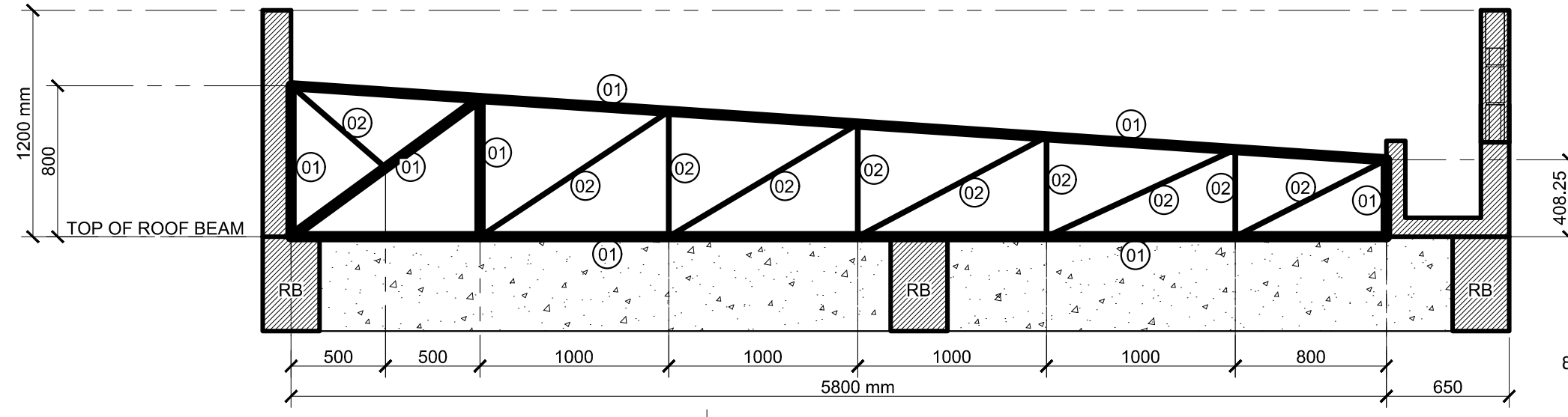
SHEET NO.  
S-04  
11 23



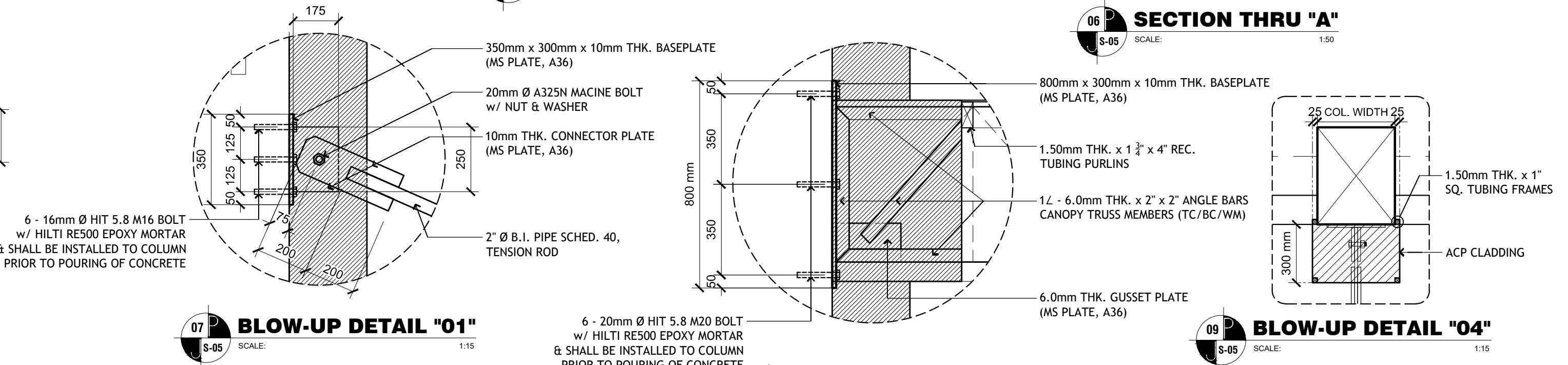
**01 TRUSS TR-01 DETAIL**  
SCALE: 1:30



**05 CANOPY FRAMING LAYOUT PLAN**  
SCALE: 1:75



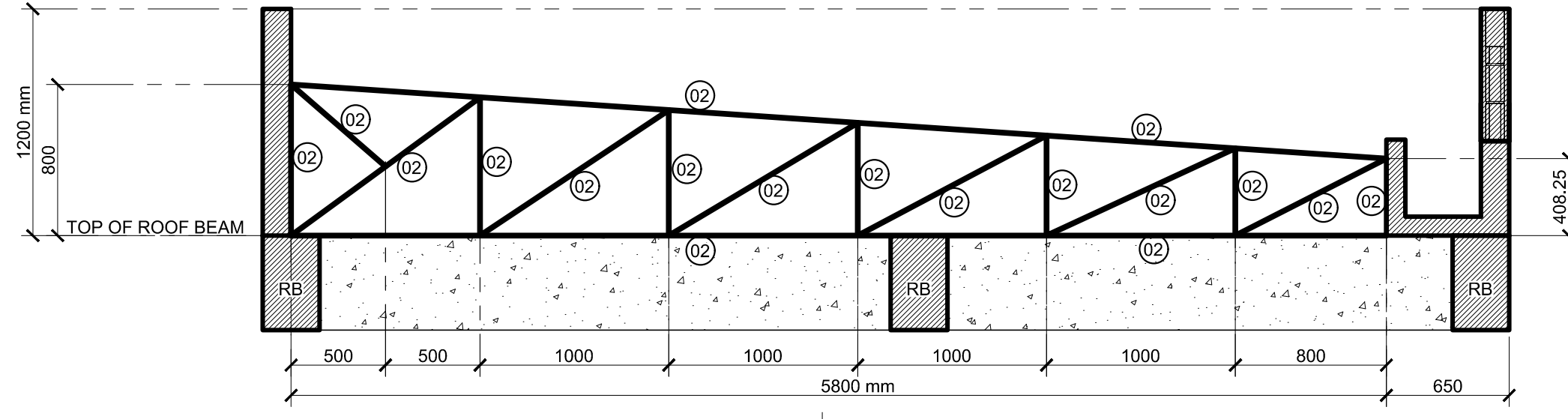
**02 TRUSS TR-02 DETAIL**  
SCALE: 1:30



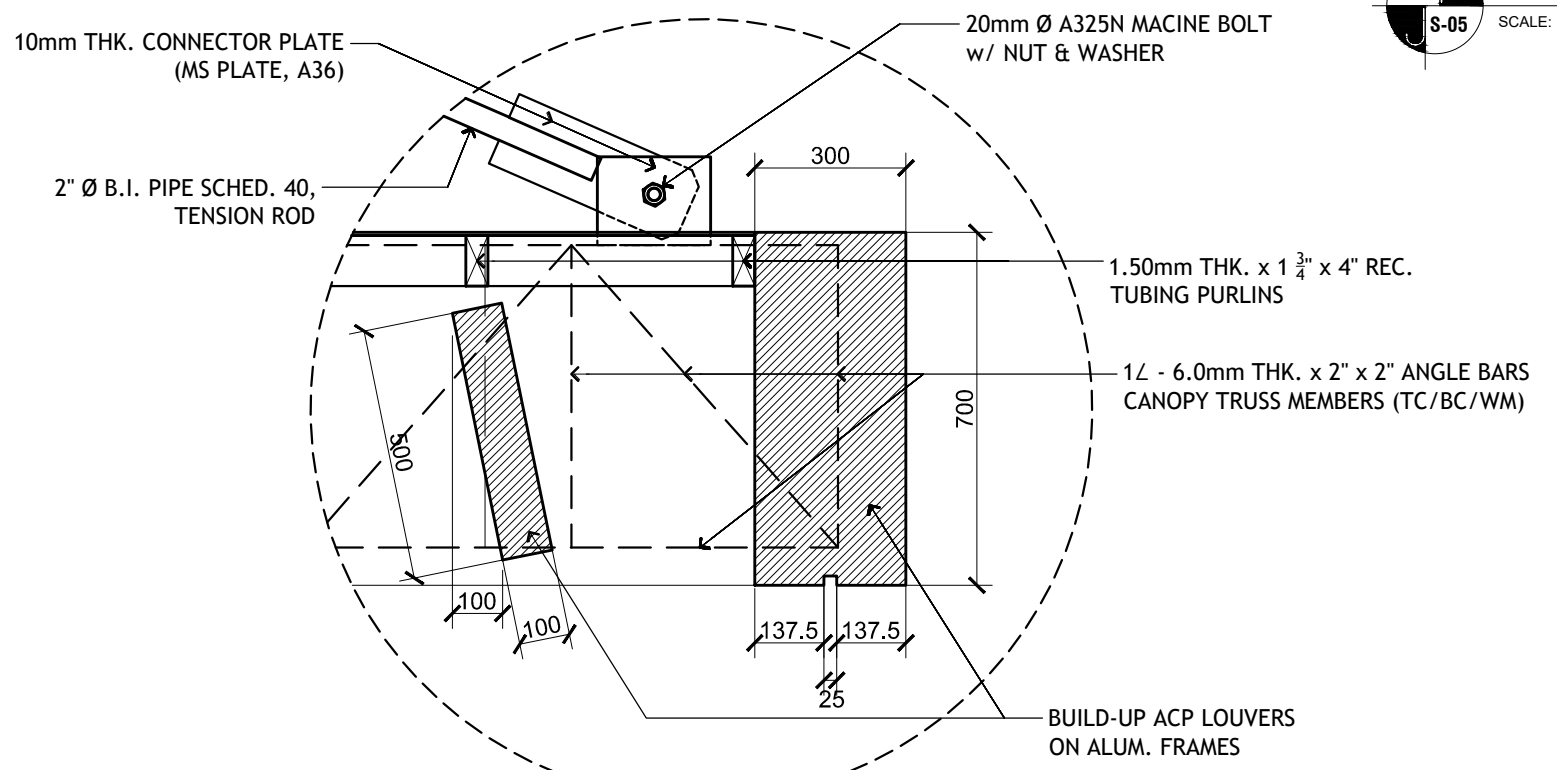
**07 BLOW-UP DETAIL "01"**  
SCALE: 1:15

**08 BLOW-UP DETAIL "02"**  
SCALE: 1:15

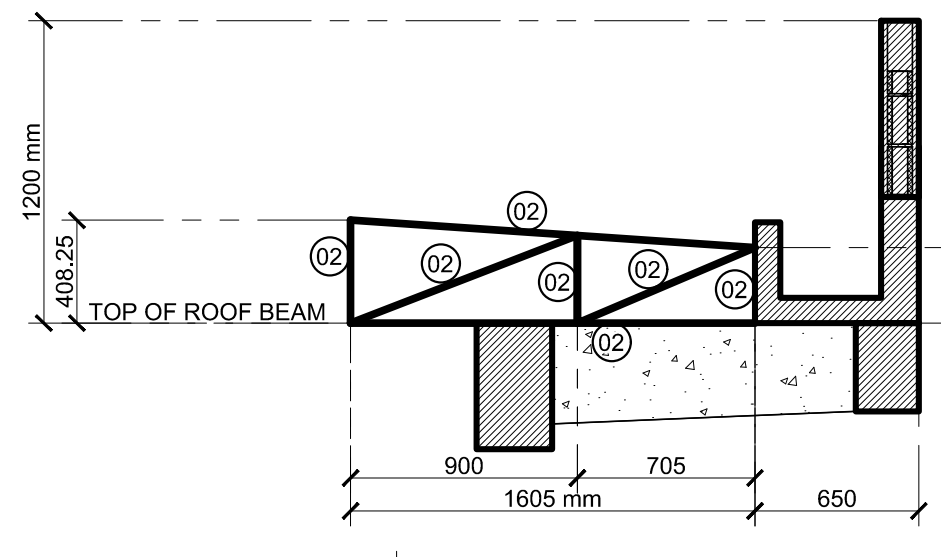
**09 BLOW-UP DETAIL "04"**  
SCALE: 1:15



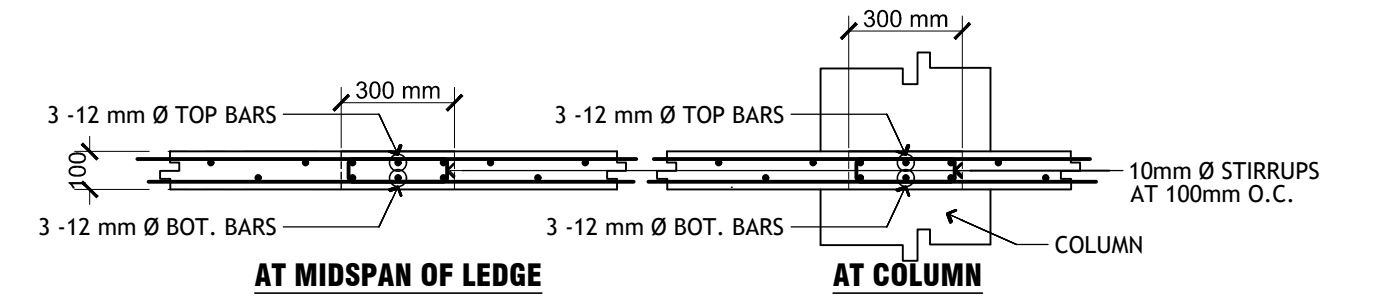
**03 TRUSS TR-03 DETAIL**  
SCALE: 1:30



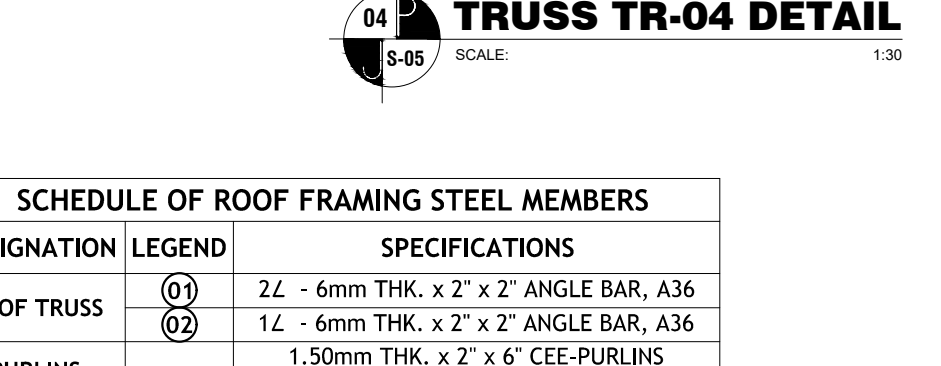
**10 BLOW-UP DETAIL "03"**  
SCALE: 1:15



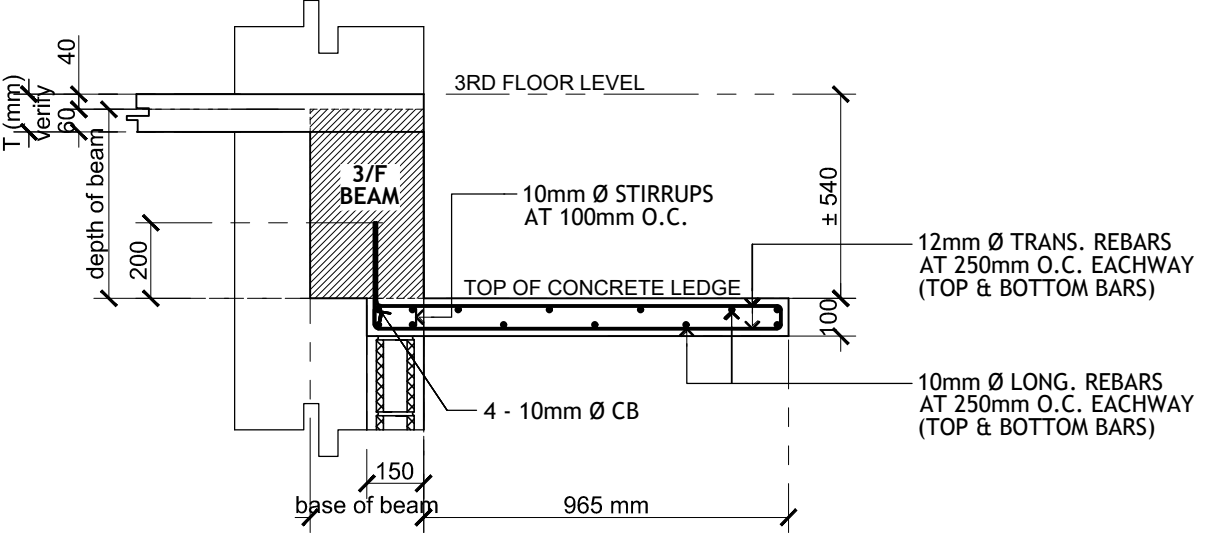
**04 TRUSS TR-04 DETAIL**  
SCALE: 1:30



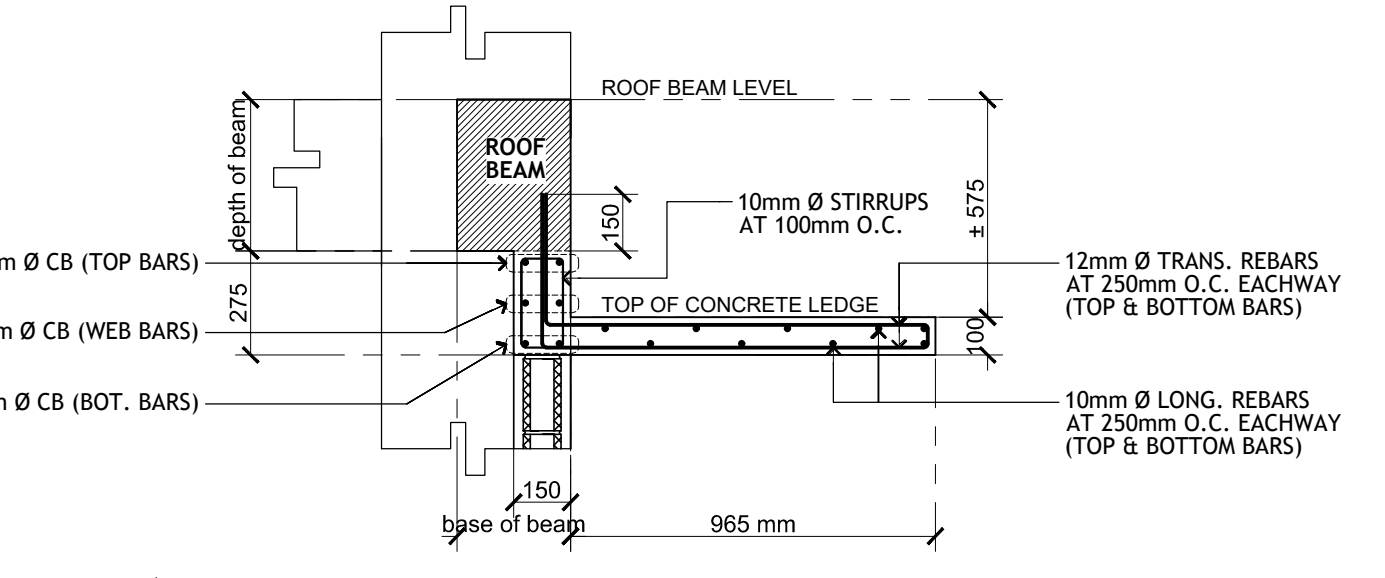
**11 TYPICAL CONC. LEDGE LONG. SECTION DETAIL**  
SCALE: 1:20



**12 CONC. LEDGE DET. (@ 2/F LEVEL)**  
SCALE: 1:20



**13 CONC. LEDGE DET. (@ 3/F LEVEL)**  
SCALE: 1:20



**14 CONC. LEDGE DET. (@ ROOFBEAM LEVEL)**  
SCALE: 1:20

SCHEDULE OF ROOF FRAMING STEEL MEMBERS		
DESIGNATION	LEGEND	SPECIFICATIONS
ROOF TRUSS	(01)	2L - 6mm THK. x 2" x 2" ANGLE BAR, A36
	(02)	1L - 6mm THK. x 2" x 2" ANGLE BAR, A36
PURLINS		1.50mm THK. x 2" x 6" CEE-PURLINS AT 700mm O.C.
CROSS-BRACE		16mm Ø PLAIN ROUND BAR w/ 16mm Ø TURNBUCKLE AT ONE END w/ SAFETY PIN
SAGROD		10mm Ø PLAIN ROUND BAR AT MIDDLE THIRD
CLEATS		4.50mm THK. x 1 1/2" x 1 1/2" ANGLE BAR, A36

**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

PRC: 8270  
VALIDITY: 08 MAY 2018  
IAPOA: 04440 141342 071615  
O.R. | DATE: 141342 | 16JULY15  
PTR: 7805115  
DATE ISS: 04 JAN 2018  
PLACE ISS: GSC  
TIN: 123-875-856

**MICHAEL T. ANG, fuap**  
ARCHITECT

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**JAMES P. PACIS, m.asep, pice**  
CIVIL / STRUCTURAL ENGINEER

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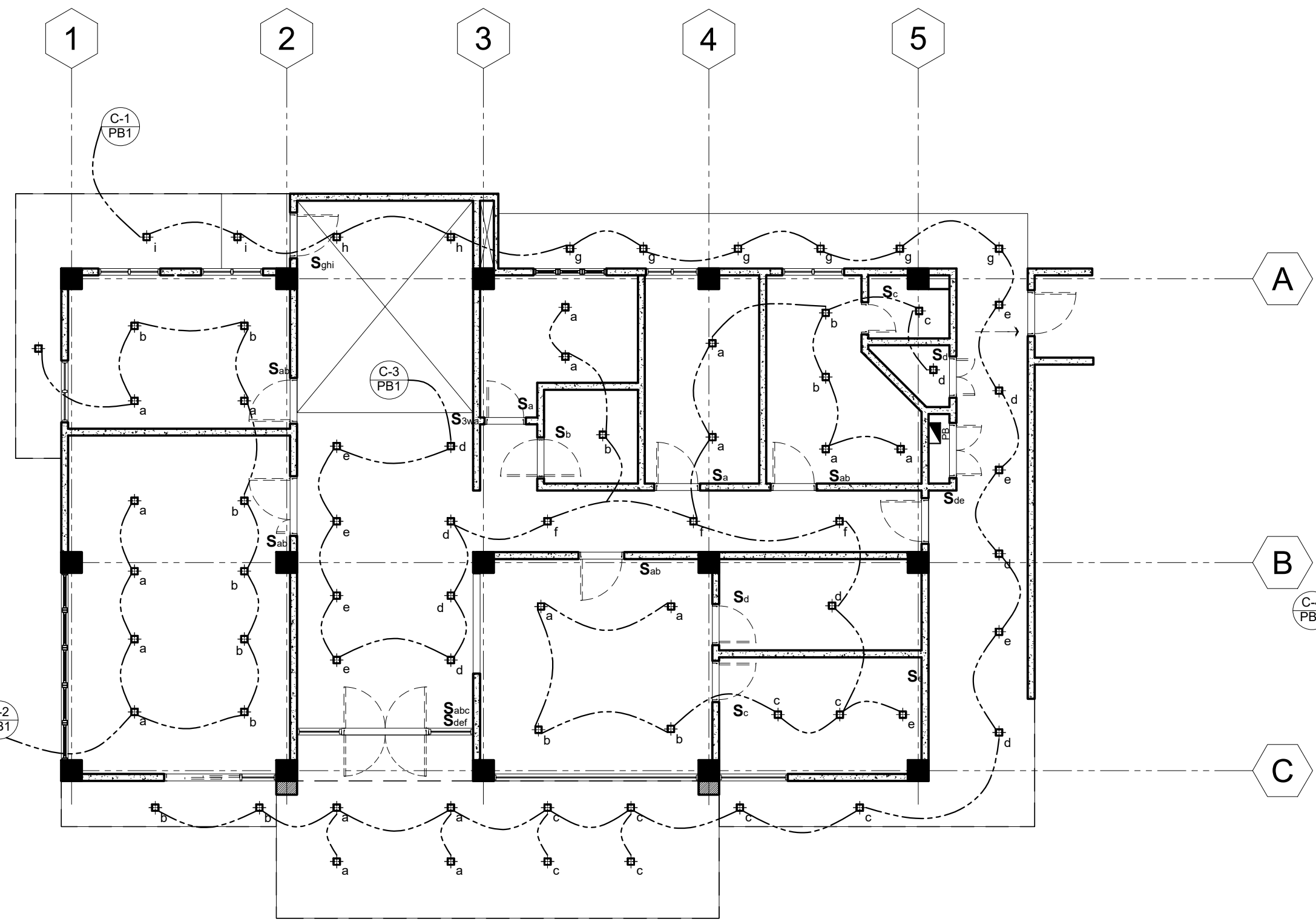
PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKARGEN Campus, Brgy. Paraiso, Koronadal City

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

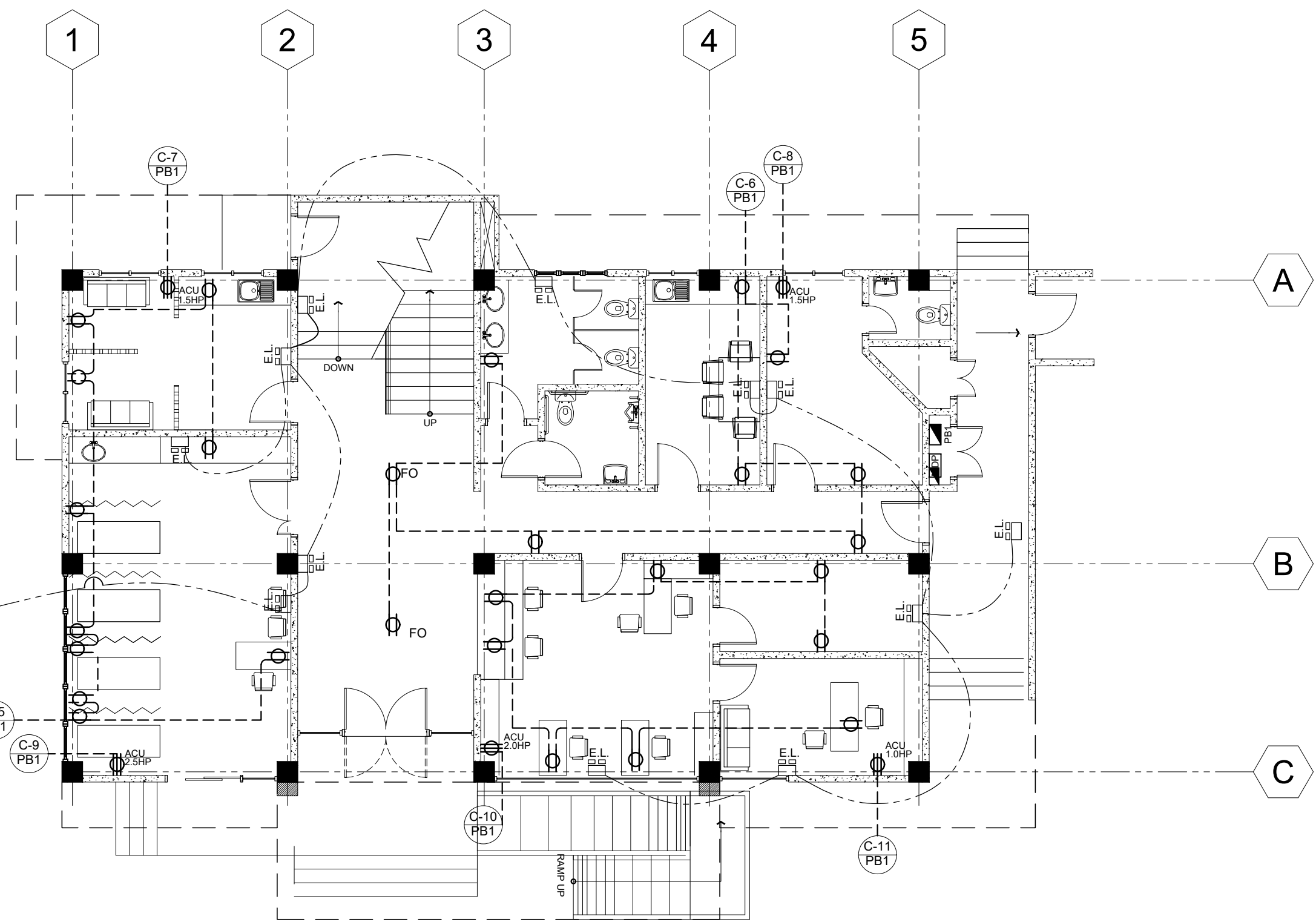
PREPARED BY:  
**J.P. PACIS ENGINEERING SERVICES**  
STRUCTURAL CONSULTANT

CHECKED BY:  
\_\_\_\_\_  
RESIDENT ENGINEER

SHEET NO.  
S-05  
12 23



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



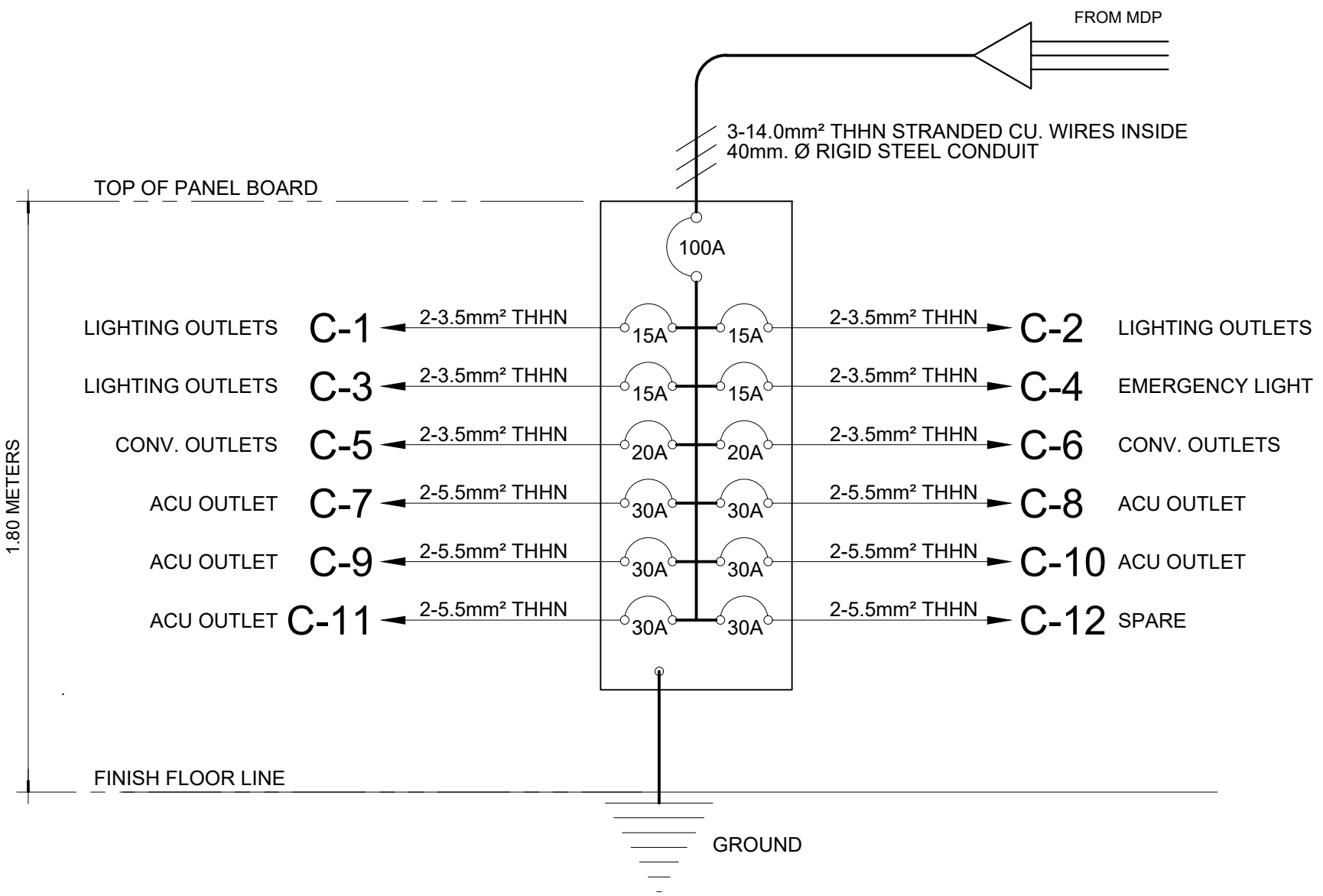
02 GROUND FLOOR POWER SUPPLY PLAN  
E-01 SCALE: 1:100

LEGEND :	
	— CIRCUIT HOMERUN
	— PANEL BOARD
	— 1 x 40 watts FLUORESCENT LAMP RECESSED TYPE WITH REFLECTOR
	— 3U PINLIGHT, 18w
	— 2-GANG CONVENIENCE OUTLET
	— ELECT. FAN OUTLET
	— WATER HEATER OUTLET
	— AIRCON. OUTLET
	— FLOOR OUTLETS
	— EMERGENCY LIGHTS

**SCHEDULE OF LOADS & COMPUTATIONS (PB-1)**

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING WVA/HP	AMPERES		SWITCHES							SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTA GE
		L.O.	C.O.	OTHE RS		S1	S2	S3	S4	S5	3W	AT	AF	POL E								
C1	LIGHTING	28			1400W	6.36			1	2					2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	59.8	0.00506	1.9256	15	20	2	230
C2	LIGHTING	13			650W	2.95			2						2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	54.95	0.00506	0.8215	15	20	2	230
C3	LIGHTING	25			1250W	5.68		8	2						2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	51.25	0.00506	1.4734	15	20	2	230
C4	EMERGENCY LIGTHS			10	500W	2.27									2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	95.33	0.00506	1.0963	15	20	2	230
C5	CONVENIENCE OUTLET		10		2000W	9.09									2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	69.07	0.00506	3.1772	20	30	2	230
C6	CONVENIENCE OUTLET		9		1700W	7.73									2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	76.66	0.00506	2.9974	20	20	2	230
C7	ACU OUTLET			1	1.5HP	10.00									2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	49.42	0.00324	1.6012	30	45	2	230
C8	ACU OUTLET			1	1.5HP	10.00									2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	96	0.00324	3.1104	30	45	2	230
C9	ACU OUTLET			1	2.5HP	14.00									2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	75	0.00324	3.4020	30	45	2	230
C10	ACU OUTLET			1	2HP	12.00									2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	60	0.00324	2.3328	30	45	2	230
C11	ACU OUTLET			1	1HP	8.00									2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	68	0.00324	1.7626	30	45	2	230
C12	SPARE			1	1000W	4.55									2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	50	0.00324	0.7364	30	45	2	230
<b>TOTAL</b>		<b>66</b>	<b>19</b>	<b>12</b>	<b>8508.5W</b>	<b>30.64</b>	<b>30.05</b>	<b>31.95</b>	<b>8</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3 - 14mm<sup>2</sup> THHN WIRE IN 40mm Ø RSC PIPE</b>	<b>3.00</b>	<b>0.00126</b>	<b>0.1208</b>	<b>60</b>	<b>75</b>	<b>3</b>	<b>230</b>

SIZE OF FEEDER:  
 $\geq A [ 31.95 \times \sqrt{3} ]$   
 $\geq 55.34527 \text{ AMPERES}$   
**USE:** 3 - 14mm<sup>2</sup> THHN WIRE IN 40mm. Ø RSC PIPE



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

**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

PRC:	8270
VALIDITY	08 MAY 2018
IAPOA:	04440 141342 071615
O.R.   DATE	141342   16JULY15
PTR	7805115
DATE ISS.	04 JAN 2018
PLACE ISS.	GSC
TIN	123-875-856

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FERNANDO G. OCAT  
 PROF. ELECTRICAL ENGINEER  
 PRC Reg.No.: 2228 PTR No.: 7178915  
 TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC

PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

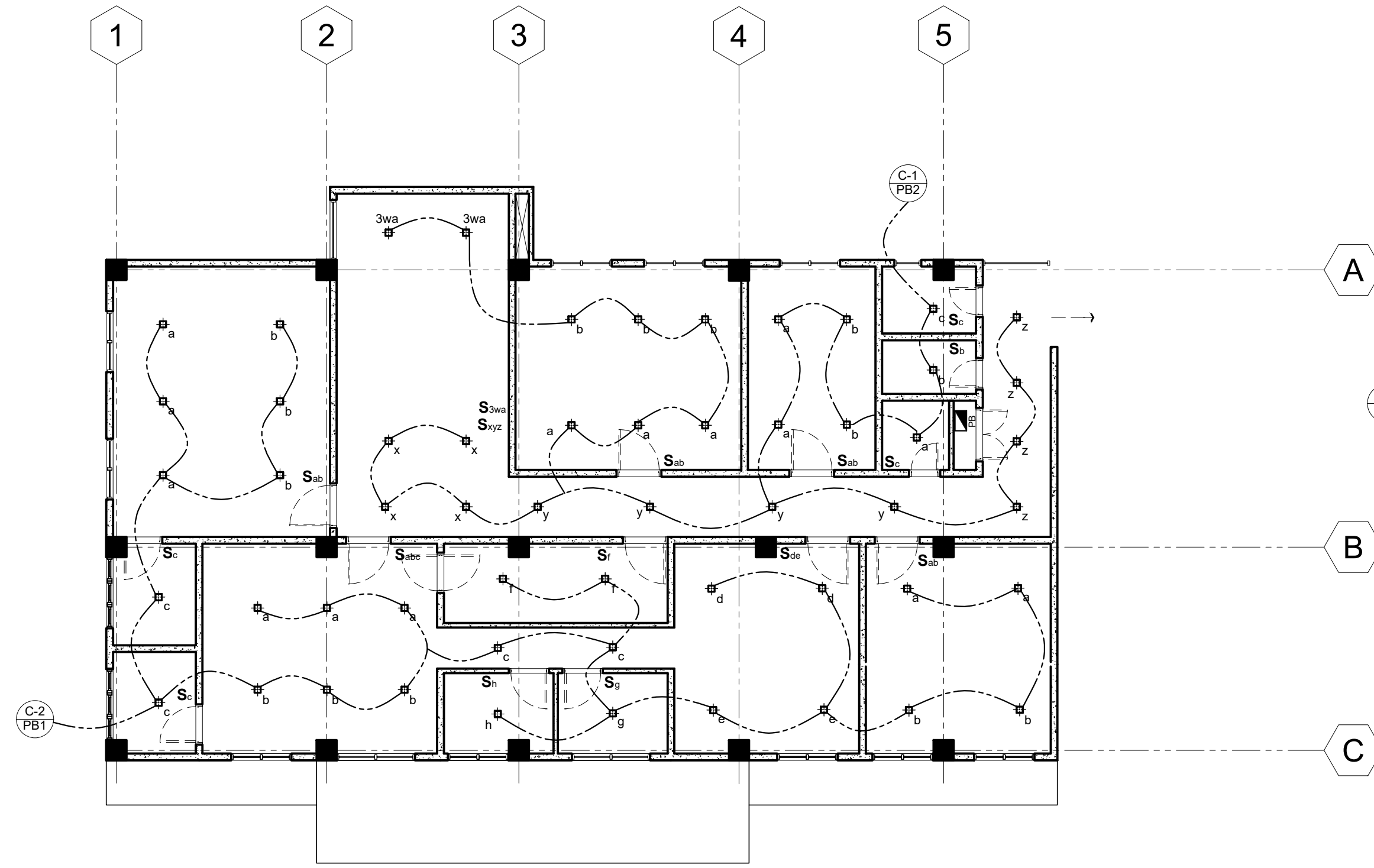
APPROVED BY  
**CHUCHI P. GARGANERA, PH. D.**  
 OWNER  
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:  
 SENIOR DESIGN ARCHITECT  
 CHECKED BY:  
 RESIDENT ENGINEER

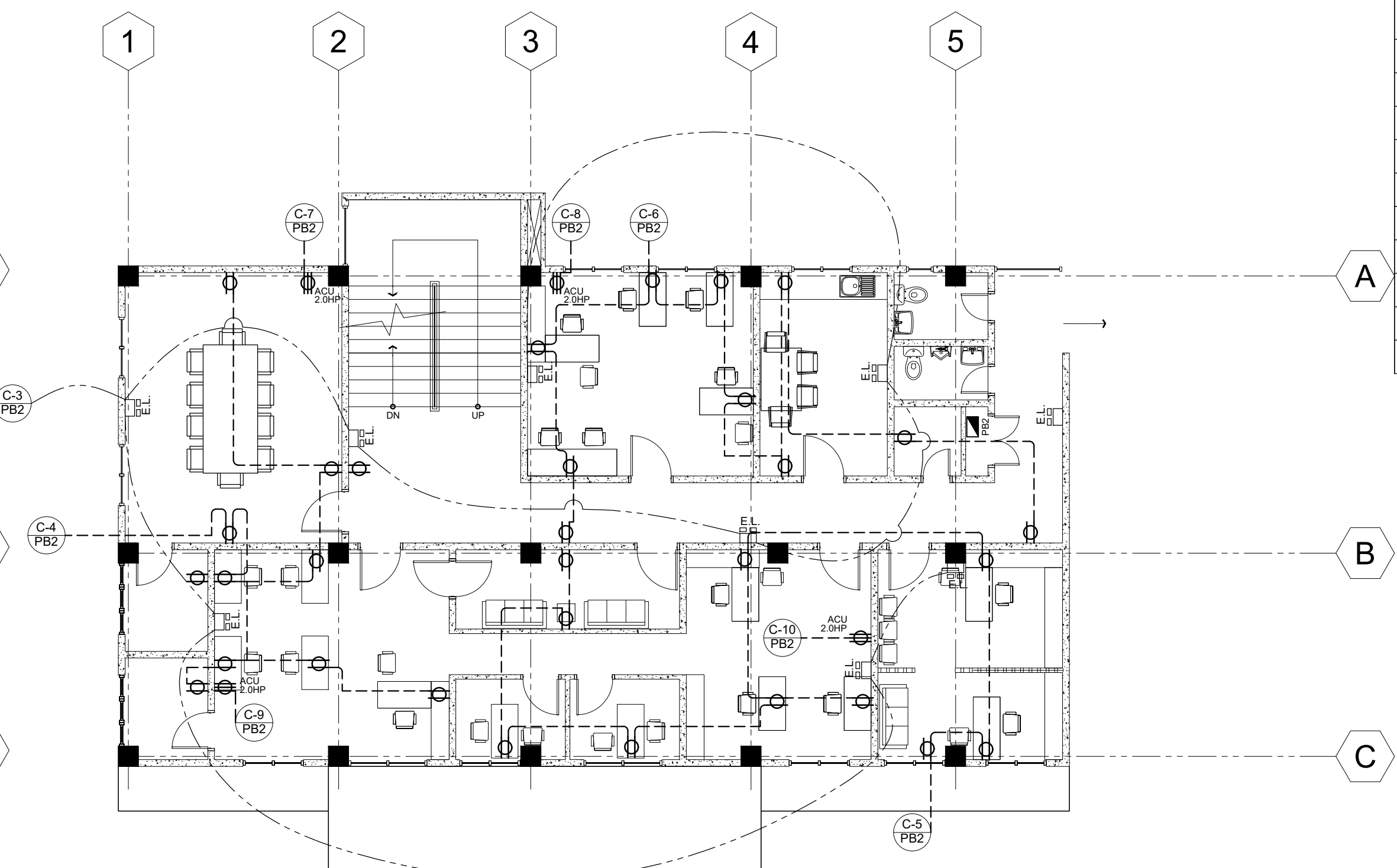
SHEET NO.	
E-01	
13	23

**LEGEND :**

	— CIRCUIT HOMERUN
	— PANEL BOARD
	— 1 x 40 watts FLUORESCENT LAMP RECESSED TYPE WITH REFLECTOR
	— 3U PINLIGHT, 18w
	— 2-GANG CONVENIENCE OUTLET
	— ELECT. FAN OUTLET
	— WATER HEATER OUTLET
	— AIRCON. OUTLET
	— FLOOR OUTLETS
	— EMERGENCY LIGHTS



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

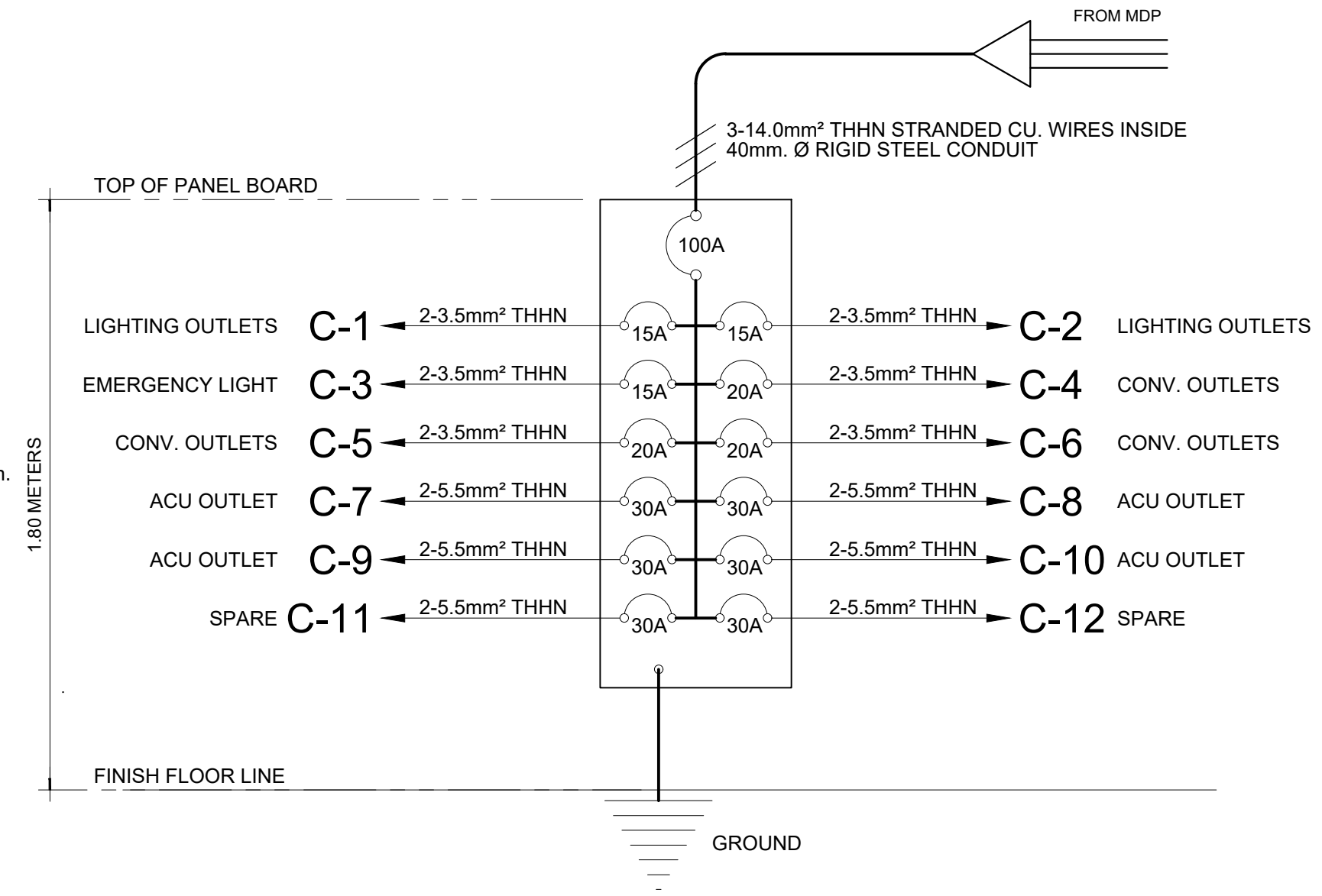


02 SECOND FLOOR POWER SUPPLY PLAN  
E-02 SCALE: 1:100

**SCHEDULE OF LOADS & COMPUTATIONS (PB-2)**

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/VA/HP	AMPERES		SWITCHES						SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTA GE	
		L.O.	C.O.	OTRE BS		S1	S2	S3	S4	S5	3W	AT	AF					E				
C1	LIGHTING	27			1350W		6.14	3	2				1	2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	15.01	0.00506	0.4661	15	20	2	230	
C2	LIGHTING	28			1400W		6.36	5	3					2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	70.10	0.00506	2.2572	15	20	2	230	
C3	EMERGENCY LIGHTS	17			850W		3.86							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	30.91	0.00506	0.6043	15	20	2	230	
C4	CONVENIENCE OUTLET		11		2200W	10.00								2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	56.95	0.00506	2.8817	20	30	2	230	
C5	CONVENIENCE OUTLET		10		2000W		9.09							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	17.36	0.00506	0.7986	20	30	2	230	
C6	CONVENIENCE OUTLET		10		1700W		7.73							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	10.49	0.00506	0.4102	20	30	2	230	
C7	ACU OUTLET			1	2HP	14.00								2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	49.42	0.00324	2.2417	30	45	2	230	
C8	ACU OUTLET			1	2HP	14.00								2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	30.04	0.00324	1.3626	30	45	2	230	
C9	ACU OUTLET			1	2HP	14.00								2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	45	0.00324	2.0412	30	45	2	230	
C10	ACU OUTLET			1	2HP	14.00								2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	50	0.00324	2.2680	30	45	2	230	
C11	SPARE			1	1000W		4.55							2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	55	0.00324	0.8100	30	45	2	230	
C12	SPARE			1	1001W		4.55							2 - 5.5mm <sup>2</sup> THHN WIRES / 3/4" Ø RSC	50	0.00324	0.7371	30	45	2	230	
<b>TOTAL</b>		<b>72</b>	<b>31</b>	<b>2</b>	<b>9504W</b>	<b>38.00</b>	<b>34.00</b>	<b>36.28</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3 - 4mm<sup>2</sup> THHN WIRE IN 40mm. Ø RSC PIPE</b>	<b>3.00</b>	<b>0.03684</b>	<b>0.0013</b>	<b>60</b>	<b>75</b>	<b>3</b>	<b>230</b>

**SIZE OF FEEDER:**  
 $\geq A [ 38.00 \times \sqrt{3} ]$   
 $\geq 65.816 \text{ AMPERES}$   
**USE:** 3 - 4mm<sup>2</sup> THHN WIRE IN 40mm. Ø RSC PIPE



01 RISER DIAGRAM (PB-2)  
E-04 NTS

**M.T. Ang**  
architectural designs  
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DESIGNS BUILT • PLUMBING DESIGN  
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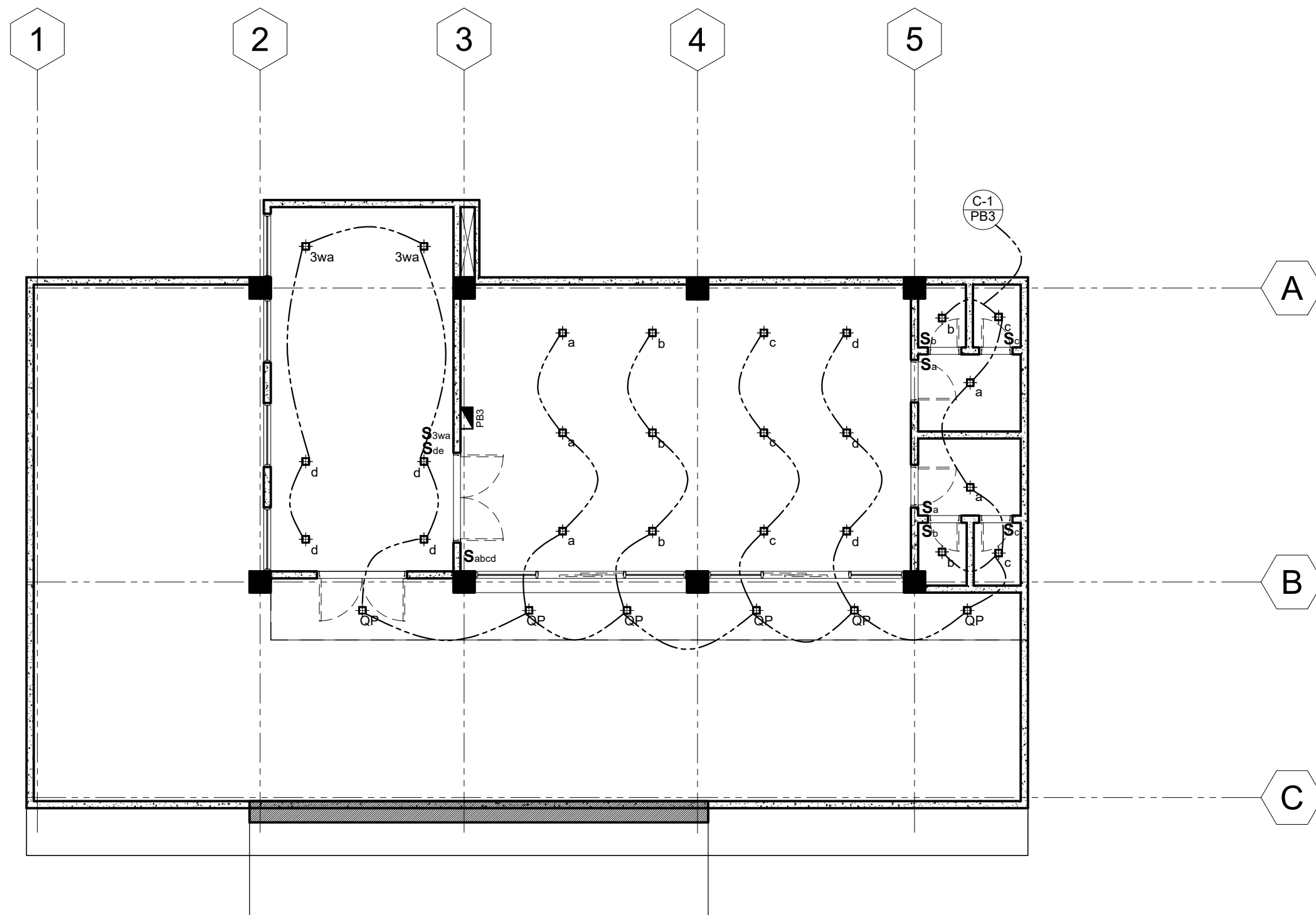
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PRC Reg.No.: 2228 PTR No.: 7178915  
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PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

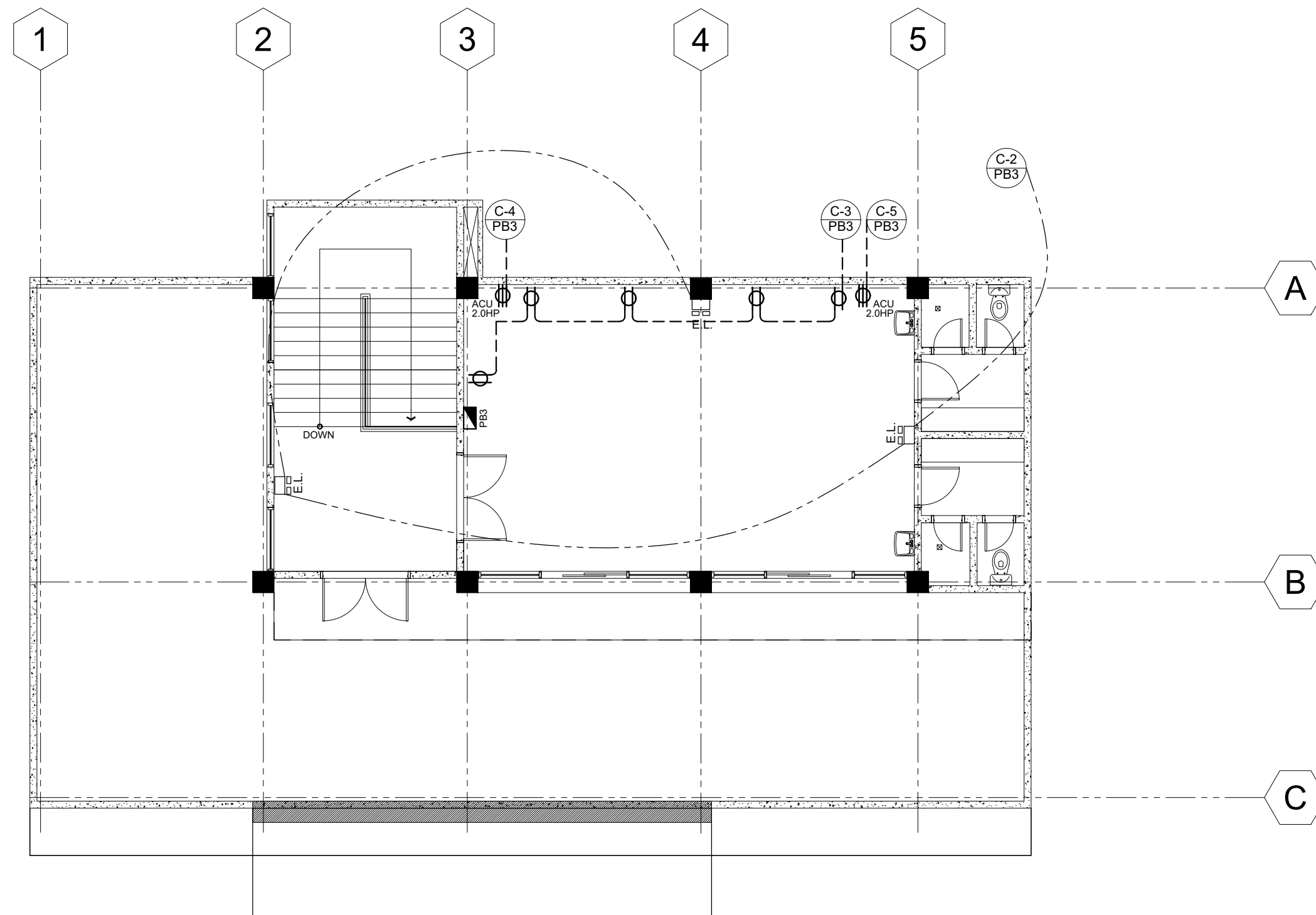
APPROVED BY  
**CHUCHI P. GARGANERA, PH. D.**  
OWNER  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:  
SENIOR DESIGN ARCHITECT  
CHECKED BY:  
RESIDENT ENGINEER

SHEET NO.  
E-02  
14 23



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



02 THIRD FLOOR POWER SUPPLY PLAN  
E-03 SCALE: 1:100

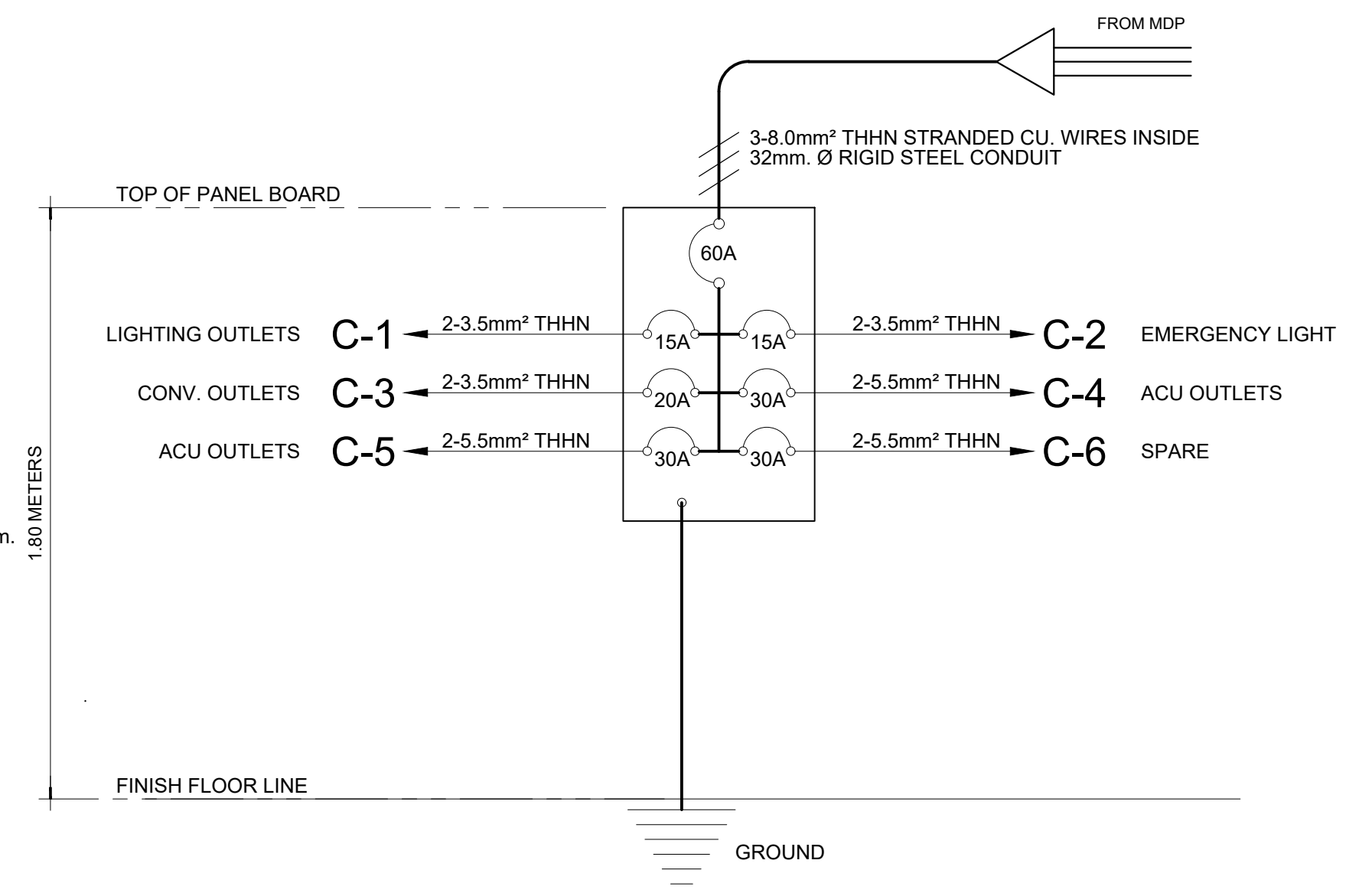
**LEGEND :**

	CIRCUIT HOMERUN
	PANEL BOARD
	1 x 40 watts FLUORESCENT LAMP RECESSED TYPE WITH REFLECTOR
	3U PINLIGHT, 18w
	2-GANG CONVENIENCE OUTLET
	ELECT. FAN OUTLET
	WATER HEATER OUTLET
	AIRCON. OUTLET
	FLOOR OUTLETS
	EMERGENCY LIGHTS

**SCHEDULE OF LOADS & COMPUTATIONS (PB-3)**

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING WVA/HP	AMPERES	SWITCHES							SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTAGE
		L.O.	C.O.	OTHERS			S1	S2	S3	S4	S5	3W	AT					AF	POL		
C1	LIGHTING	30			1500W	6.82	6	1	1				2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	43.44	0.00506	1.4987	15	20	2	230	
C2	EMERGENCY LIGHTS			3	150W	0.68							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	25.82	0.00506	0.0891	15	20	2	230	
C3	CONVENIENCE OUTLET		5		1000W	4.55							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	65.49	0.00506	1.5063	20	30	2	230	
C4	ACU OUTLET			1	2.5HP	12.00							2 - 3.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	67.80	0.00324	2.6361	20	30	2	230	
C5	ACU OUTLET			1	2.5HP	12.00							2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	2.43	0.00324	0.0943	30	40	2	230	
C6	SPARE			1	1000W	4.55							2 - 5.5mm <sup>2</sup> THHN WIRES / 1/2" Ø RSC	7.41	0.00324	0.0000	30	40	2	230	
<b>TOTAL</b>		<b>30</b>	<b>5</b>	<b>6</b>		<b>12.00</b>	<b>12.68</b>	<b>15.91</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>75</b>	<b>3</b>	<b>230</b>	

**SIZE OF FEEDER:**  
 $\geq A [ 15.91 \times \sqrt{3} ]$   
 $\geq 15.90909 \text{ AMPERES}$   
**USE:** 3 - 8.0mm<sup>2</sup> THHN WIRE IN 32mm. Ø RSC PIPE



01 RISER DIAGRAM (PB-3)  
E-03 NTS

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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

PRC:	8270
VALIDITY:	08 MAY 2018
IAPOA:	04440 141342 071615
O.R.   DATE:	141342   16JULY15
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**FERNANDO G. OCAT**  
PROF. ELECTRICAL ENGINEER  
PRC Reg.No.: 2228 PTR No.: 7178915  
TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC

**PROJECT TITLE / LOCATION**  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

**PREPARED BY:** SENIOR DESIGN ARCHITECT  
**CHECKED BY:** RESIDENT ENGINEER

**SHEET NO.**

E-03
15 23

## 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 2.0mm<sup>2</sup> 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.

## SCHEDULE OF LOADS & COMPUTATIONS FOR MDP

PANEL DESCRIPTION	AMPERES	CIRCUIT PROTECTION			VOLTAGE
		AT	AF	POLE	
PB-1	55.35	100	125	3	230
PB-2	65.82	100	125	3	230
PB-3	15.91	60	75	3	230
<b>TOTAL</b>	<b>137.07</b>	<b>200</b>	<b>225</b>	<b>3</b>	<b>230</b>

### VOLTAGE DROP

@ PANELS BOARD

DIST. FROM TAPPING POLE TO PANELS: ±30 meters  
MAIN = 137.07 Amps

(FROM TABLE SYCWIN ELECTRIC WIRES AND CABLES)

Z ( 50 mm<sup>2</sup> ) = 0.13900 / 300m  
@ 30 m; Zt = 0.00046 Ohms  
Zt = 0.0417 Ohms

### VOLTAGE DROP @ MDP

VOLTAGE DROP = IZ  
= 137.07 x 0.04170  
= 5.72 V  
% VOLTAGE DROP = 2.598 %

### SHORT CIRCUIT CURRENT:

Distance from Tapping Pole: ±30 meters

### Transformer Capacity:

$$kVA = \frac{I \times \text{Voltage}}{1000}$$

$$= \frac{137.07 \times 220 \times \sqrt{3}}{1000}$$

= 52.22929 kVA

USE: 3 - 25 kVA TRANSFORMER  
7620v / 220v SEC.

$$I_{sc} = \frac{I_{sc}}{Z}$$

I<sub>sc</sub> = SHORT CIRCUIT CURRENT (SYMMETRICAL)  
Z = TOTAL IMPEDANCE  
= X<sub>t</sub> + X<sub>LINE</sub>

$$I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$$

FROM DIAGRAM :

$$I_{sc} = \frac{196.83 \text{ Amps}}{0.016 + 0.04170}$$

$$I_{sc} = 3,411.26 \text{ A (RMS)}$$

## SIZE OF MAIN SERVICE ENTRANCE:

$$I = \frac{1}{\sqrt{3}} \left( \frac{BP-1}{Z} + \frac{PB-2}{Z} + \frac{PB-3}{Z} \right)$$

$$= \frac{1}{\sqrt{3}} (55.35 + 65.82 + 15.91)$$

$$= 137.07 \text{ A}$$

USE: - 3 - 50mm<sup>2</sup> THHN STRANDED WIRES IN 63mm. Ø RSC  
- 200 AMPERES, 3P, 250v, MAIN DISCONNECTION SWITCH

## FOR TRANSFORMER CAPACITY:

$$S = \frac{\sqrt{3} (137.07 \times 220)}{1000}$$

≥ 52 kVA USE: 3 - 25 kVA DISTRIBUTION TRANSFORMER

USE: 1 - 60 Kw GENSET  
CPS, 230v 30% POWER

### @ PANEL BOARD (PB-1)

DIST. FROM TAPPING POLE TO PANEL: ±3.00m.  
Z (14 mm<sup>2</sup>) = 0.501 / 300m  
Z @ 3m. = 0.00167 OhmS  
Z = 0.01503 Ohms

### VOLTAGE DROP @ PB-1

VOLTAGE DROP = IZ  
= 55.345 x 0.01503  
= 0.832 V  
% VOLTAGE DROP = 0.38%

### I<sub>sc</sub> = 1sec.

Z = TOTAL IMPEDANCE

I<sub>sc</sub> = SHORT CIRCUIT CURRENT (SYMMETRICAL)

Z = TOTAL IMPEDANCE

= X<sub>t</sub> + X<sub>line</sub>

I<sub>sc</sub> = Kva x 1000

1.732 x 220v

I<sub>sc</sub> = 196.83 Amps

0.016 + 0.0417 + 0.01503

I<sub>sc1</sub> = 2,706.311 A (RMS)

USE: KAIC VALUE NOT LESS THAN 5 KAIC

### @ PANEL BOARD (PB-2)

DIST. FROM TAPPING POLE TO PANEL: ±6.00m.  
Z (14 mm<sup>2</sup>) = 0.501 / 300m  
Z @ 6m. = 0.00167 OhmS  
Z = 0.03006 Ohms

### VOLTAGE DROP @ PB-2

VOLTAGE DROP = IZ  
= 65.82 x 0.03006  
= 1.98V  
% VOLTAGE DROP = 0.9%

### I<sub>sc</sub> = 1sec.

Z = TOTAL IMPEDANCE

I<sub>sc</sub> = SHORT CIRCUIT CURRENT (SYMMETRICAL)

Z = TOTAL IMPEDANCE

= X<sub>t</sub> + X<sub>line</sub>

I<sub>sc</sub> = Kva x 1000

1.732 x 220v

I<sub>sc</sub> = 196.83 Amps

0.016 + 0.0417 + 0.03006

I<sub>sc3</sub> = 2,242.821 A (RMS)

USE: KAIC VALUE NOT LESS THAN 5 KAIC

### @ PANEL BOARD (LP-3)

DIST. FROM TAPPING POLE TO PANEL: ±9.00m.  
Z (8.0 mm<sup>2</sup>) = 0.515 / 300m  
Z @ 9m. = 0.00171 OhmS  
Z = 0.04635 Ohms

### VOLTAGE DROP @ LP-3

VOLTAGE DROP = IZ  
= 15.91 x 0.04635  
= 0.74V  
% VOLTAGE DROP = 0.336%

### I<sub>sc</sub> = 1sec.

Z = TOTAL IMPEDANCE

I<sub>sc</sub> = SHORT CIRCUIT CURRENT (SYMMETRICAL)

Z = TOTAL IMPEDANCE

= X<sub>t</sub> + X<sub>line</sub>

I<sub>sc</sub> = Kva x 1000

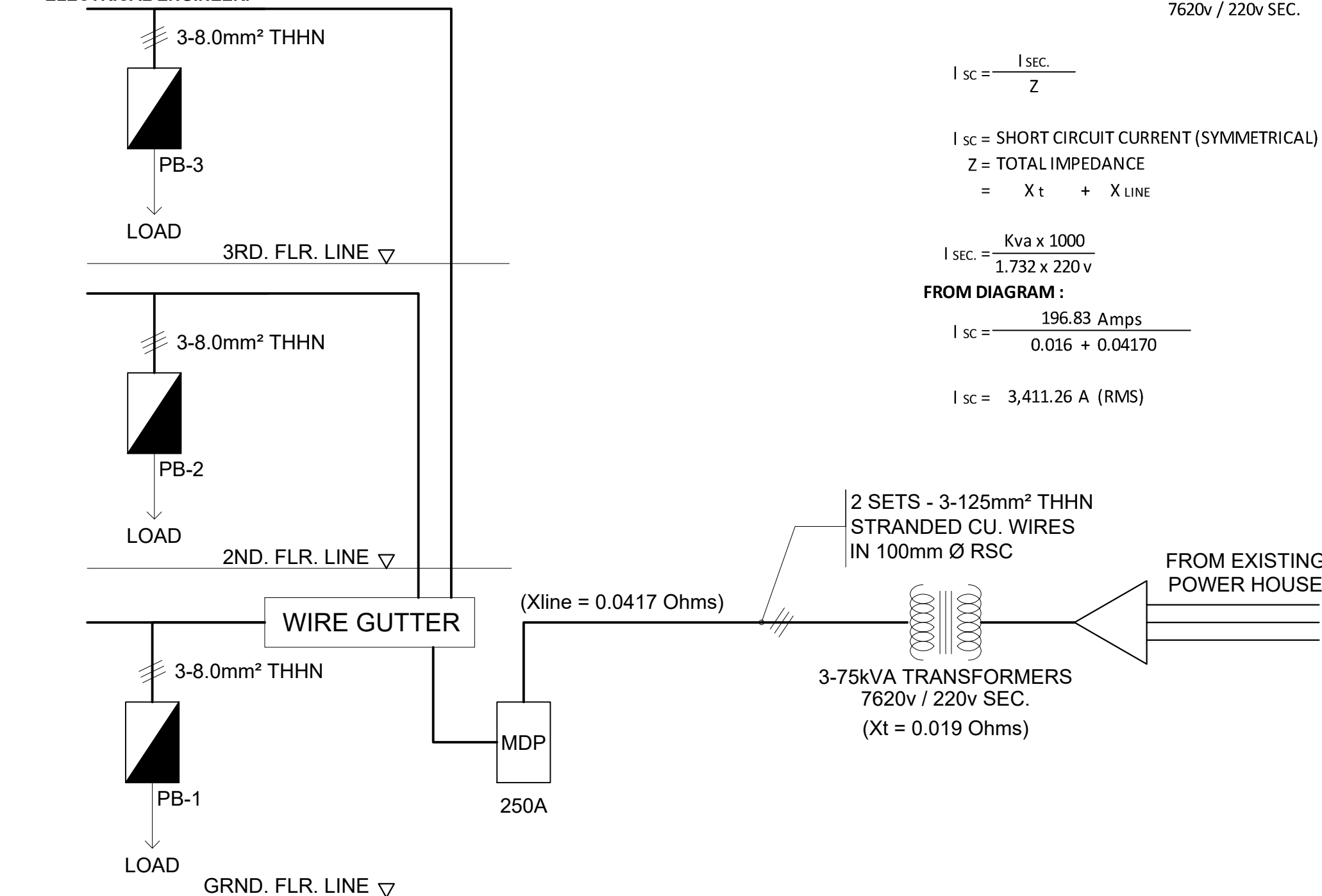
1.732 x 220v

I<sub>sc</sub> = 196.83 Amps

0.016 + 0.0417 + 0.04635

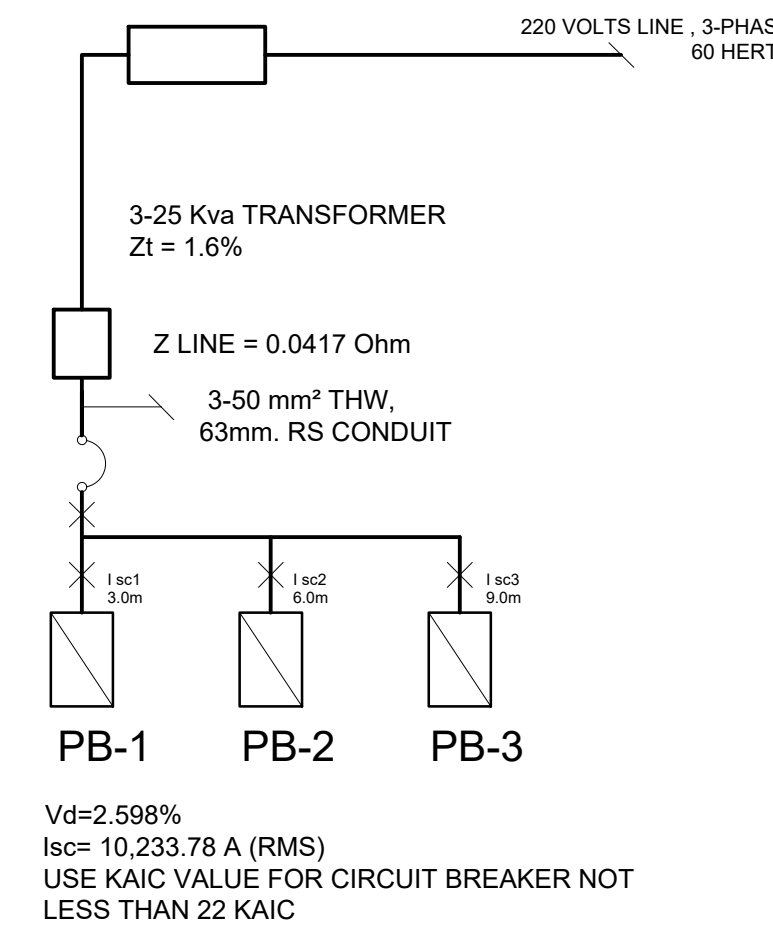
I<sub>sc5</sub> = 1,891.687 A (RMS)

USE: KAIC VALUE NOT LESS THAN 5 KAIC



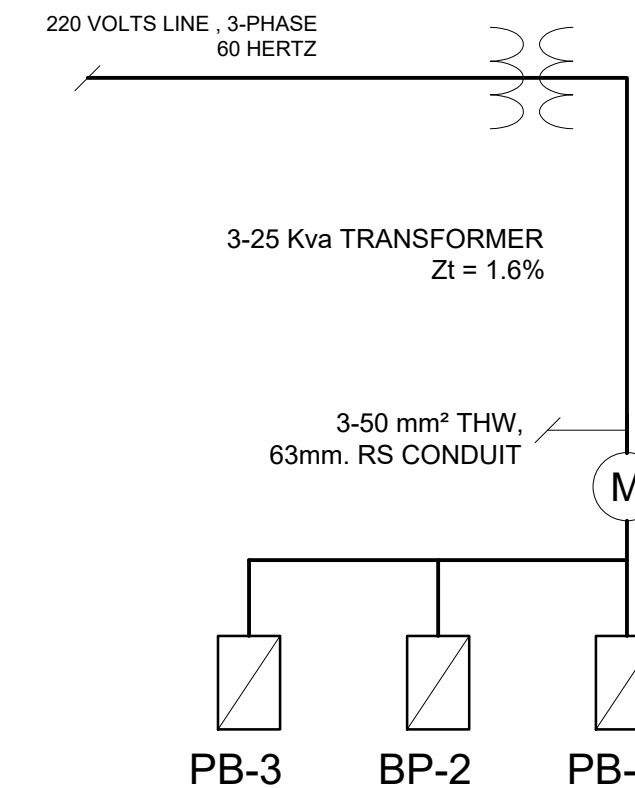
## 01 SCHEMATIC DIAGRAM

E-04 NTS

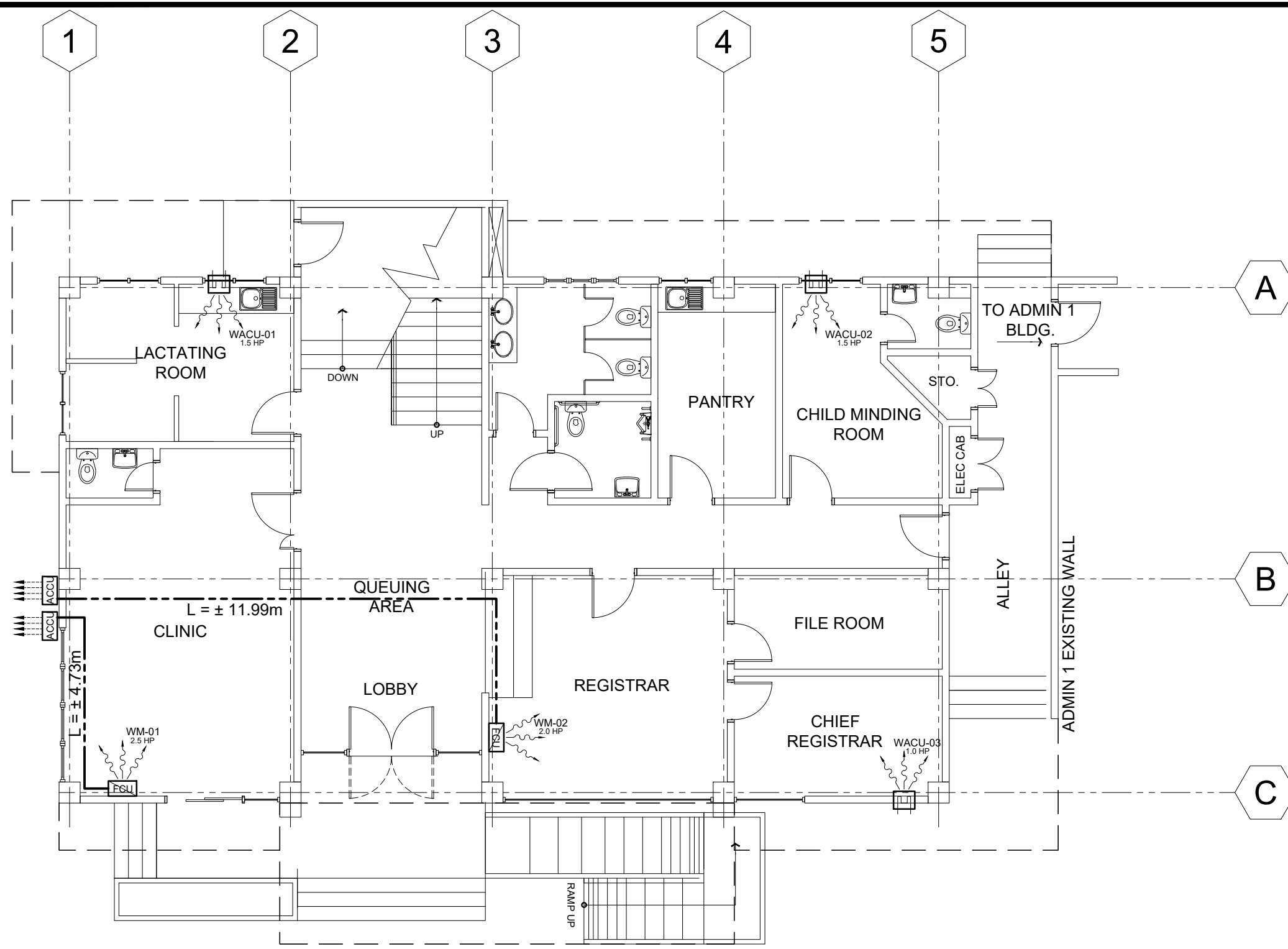


## SIMPLIFIED DIAGRAM

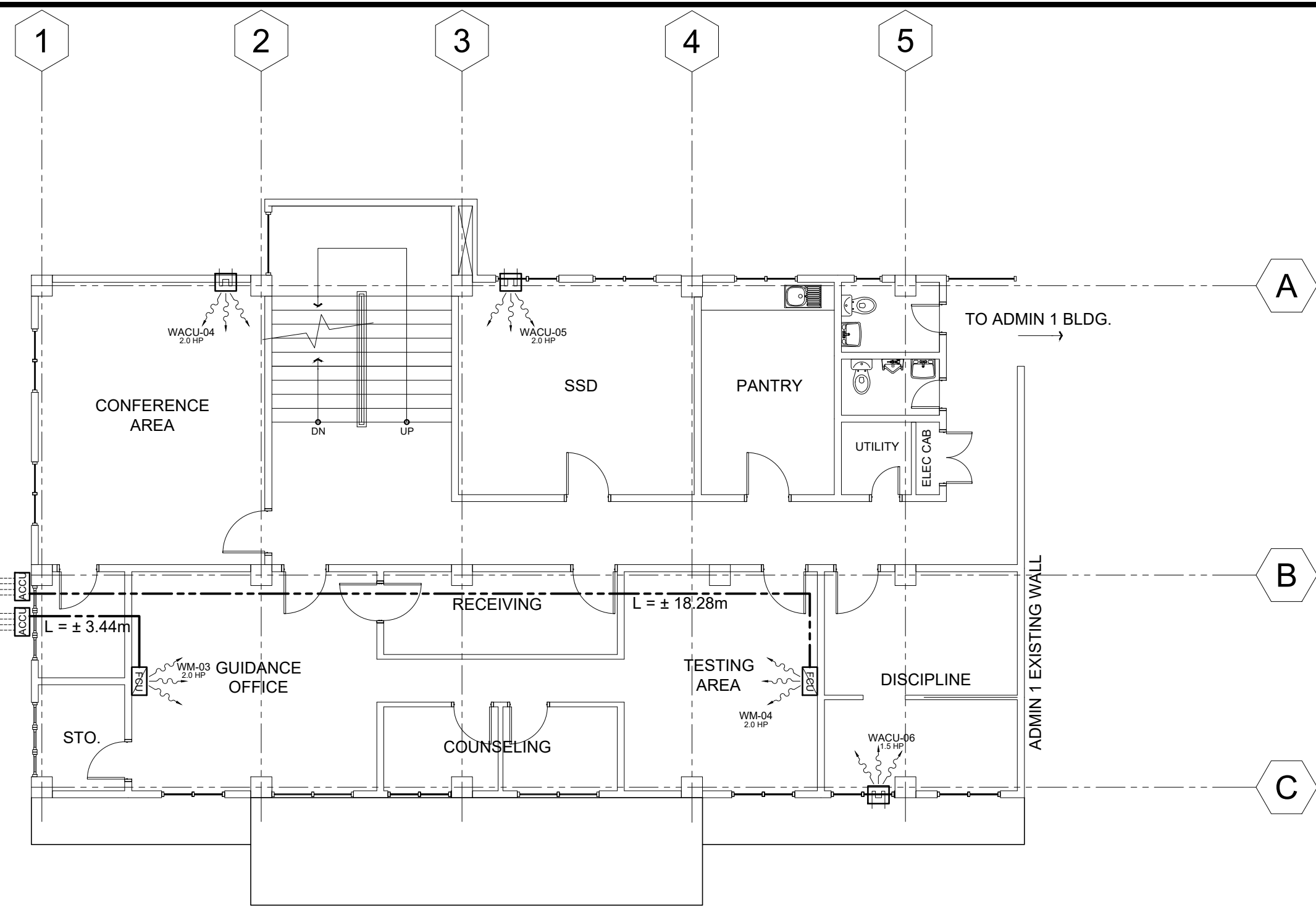
NTS



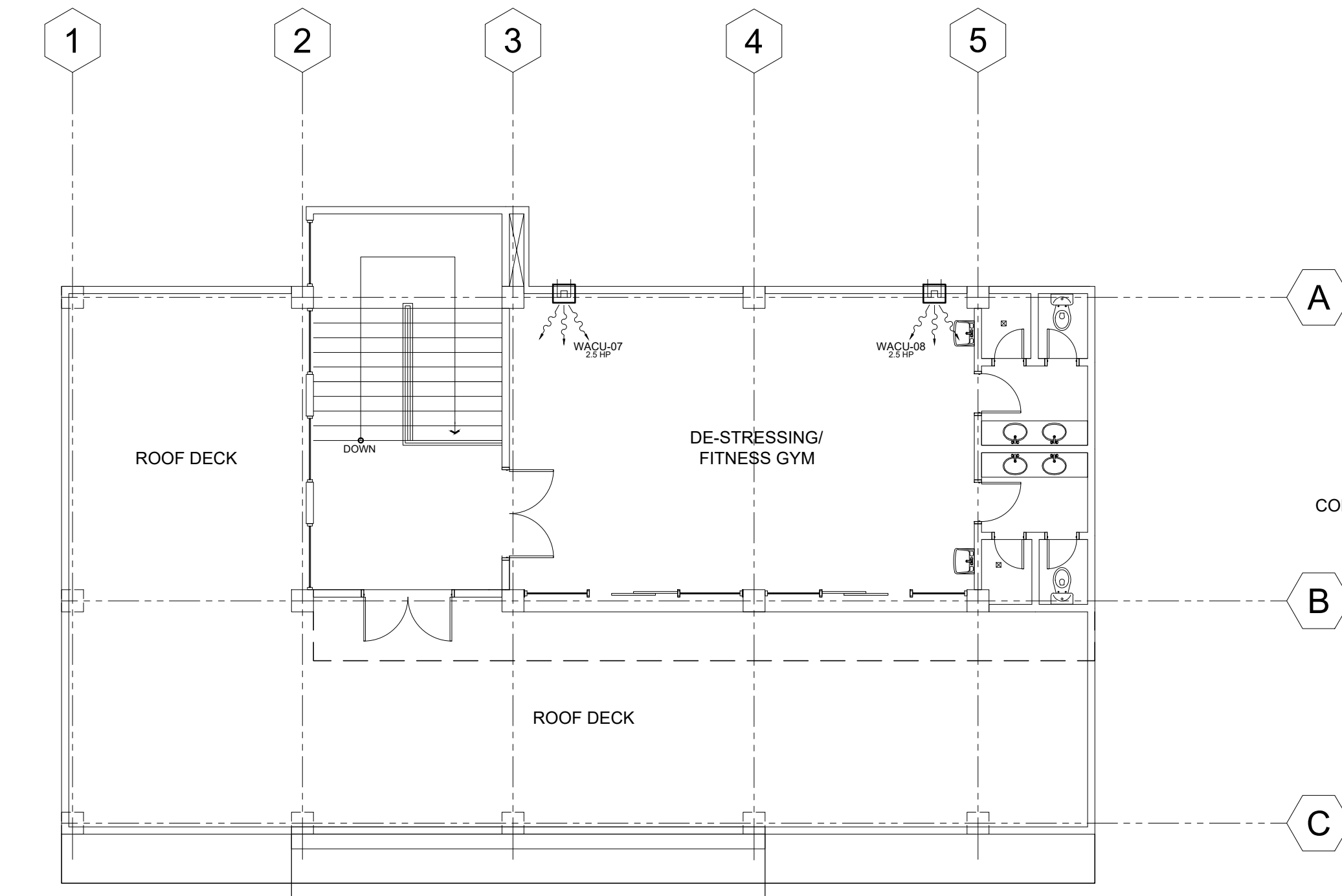




01 **GROUND FLOOR A/C LAYOUT PLAN**  
M-01 SCALE: 1:100



02 **SECOND FLOOR A/C LAYOUT PLAN**  
M-01 SCALE: 1:100



03 **THIRD FLOOR A/C LAYOUT PLAN**  
M-01 SCALE: 1:100

**LEGEND :**

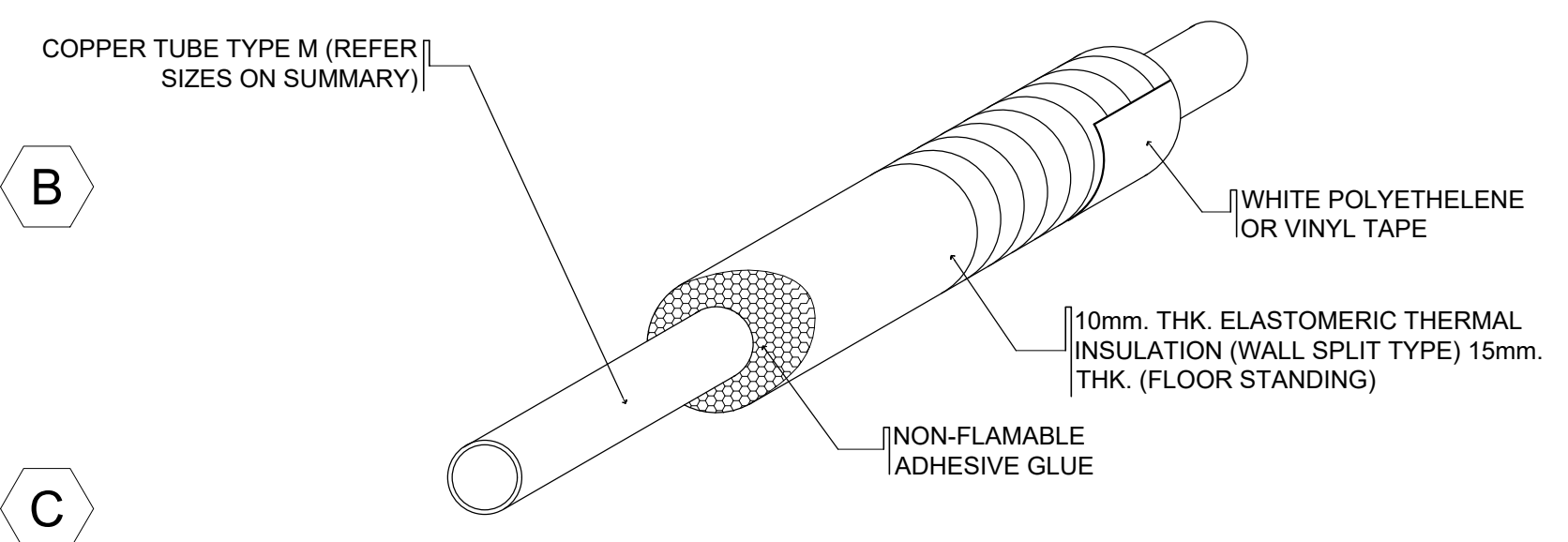
	WINDOW TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	WALL MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	FLOOR MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	AIRCON CONDENSING UNIT (OUTDOOR UNIT)
	INSULATED REFRIGERANT PIPE LINE
	EXHAUST FAN

**TABULATION OF EQUIPMENTS**

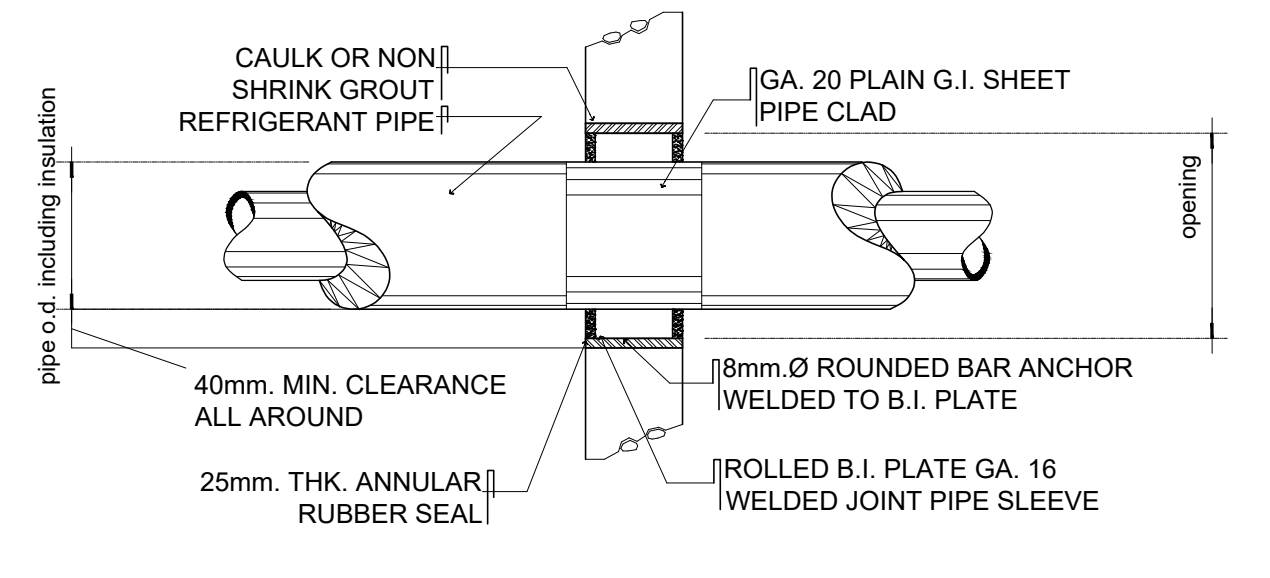
TYPE OF AIRCON	COOLING CAP.			ELECTRICAL SUPPLY			
	HP / TR	KJ/hr	EER	WATTAGE	VOLTAGE	PHASE	CYCLE
WM-1	2.5 HP	21,600	13.10	940	220	1	60
WM-2	2.0 HP	18,720	13.60	1,380	220	1	60
WM-3	2.0 HP	18,720	13.60	1,380	220	1	60
WM-4	2.0 HP	18,720	13.60	1,380	220	1	60
WACU-1	1.5 HP	13,000	10.70	1,210	220	1	60
WACU-2	1.5 HP	13,000	10.70	1,210	220	1	60
WACU-3	1.0 HP	11,000	11.70	940	220	1	60
WACU-4	2.0 HP	19,900	10.50	1,890	220	1	60
WACU-5	2.0 HP	19,900	10.50	1,890	220	1	60
WACU-6	1.5 HP	13,000	10.70	1,210	220	1	60
WACU-7	2.5 HP	25,500	9.60	2,660	220	1	60
WACU-8	2.5 HP	25,500	9.60	2,660	220	1	60

**GENERAL NOTES:**

- VERIFY ALL DIMENSION LOCATION OF THE EQUIPMENT ON THE DRAWING OF RELATED AND OTHER TRADES AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITION AFFECTING THE MECHANICAL WORKS.
- THE CONTRACTOR SHALL SUBMIT WARRANTY CERTIFICATE UPON COMPLETION OF THE PROJECT.
- IT IS NOT INTENDED THAT THIS DRAWINGS SHALL SHOW EVERY REFRIGERANT PIPES, FITTINGS, CONTROLS AND VALVES. ALL SUCH ITEMS WHETHER SPECIFICALLY INDICATED OR NOT ON THE DRAWING, SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF THE DULY QUALIFIED & COMPETENT MECHANICAL ENGINEER.
- ALL WORK PERFORMED SHALL COMPLY WITH THE LATEST REGULATION OF PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS CODE.
- EXHAUST FANS SHALL BE DUCTED TYPE, PREFERRED BRAND SHALL BE KDK OR APPROVED EQUAL.



02 **REFRIGERANT PIPE INSULATION DETAILS**  
M-05 NTS



03 **PIPE THRU' WALL DETAILS**  
M-05 NTS

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**MICHAEL T. ANG, fuap**  
ARCHITECT

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O.R.   DATE:	141342   16JULY15
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**FELIX R. CAÑIZARES**  
PROF. MECHANICAL ENGINEER  
PRC Reg.No.: 3129 PTR No.: 7818015  
TIN No.: 144-954-544 Date: 01/06/18 Iss.: GSC

PROJECT TITLE / LOCATION  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

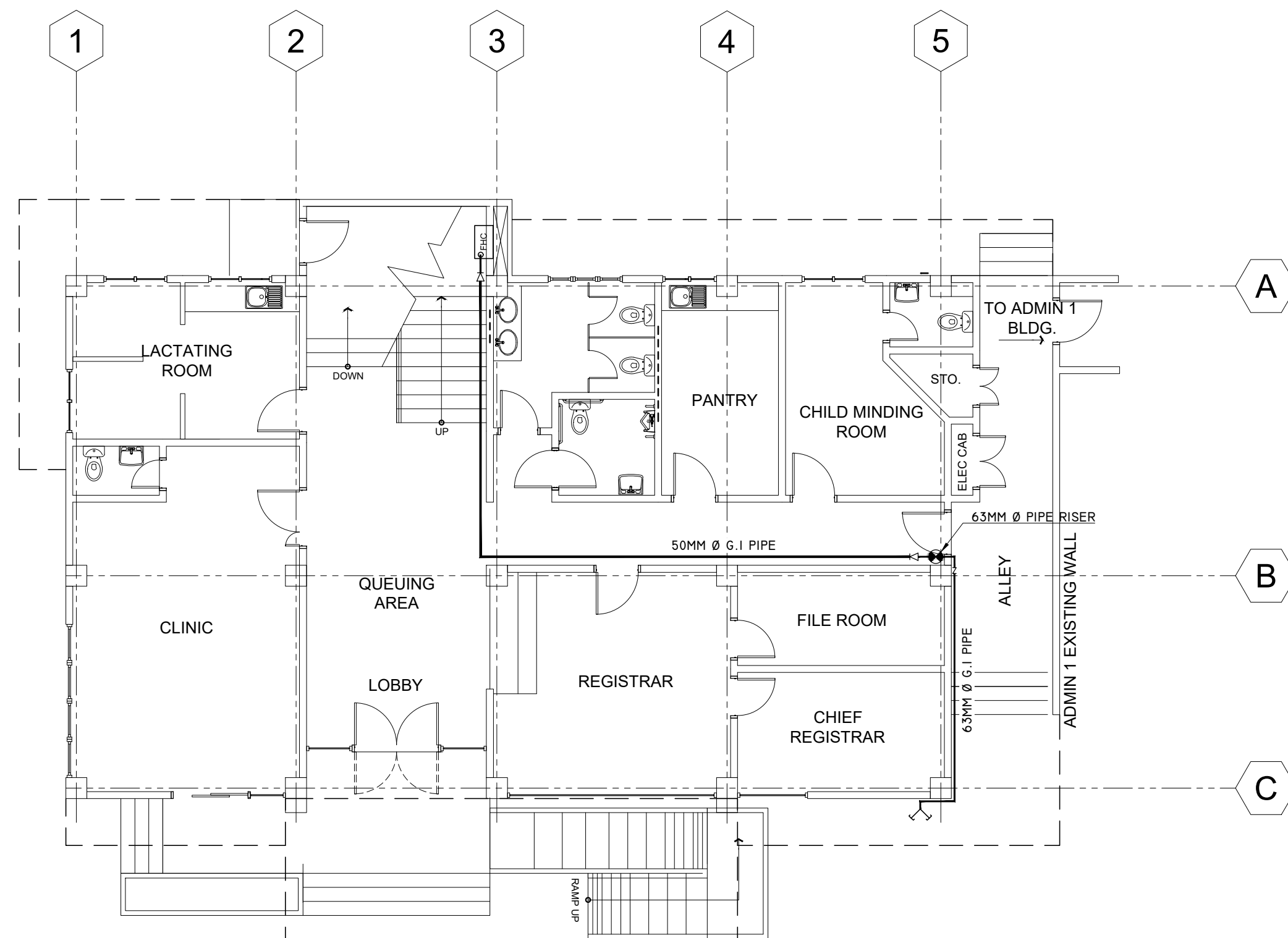
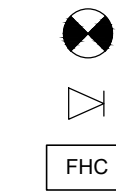
APPROVED BY  
**CHUCHI P. GARGANERA, PH. D.**  
OWNER  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
CHECKED BY:  
RESIDENT ENGINEER

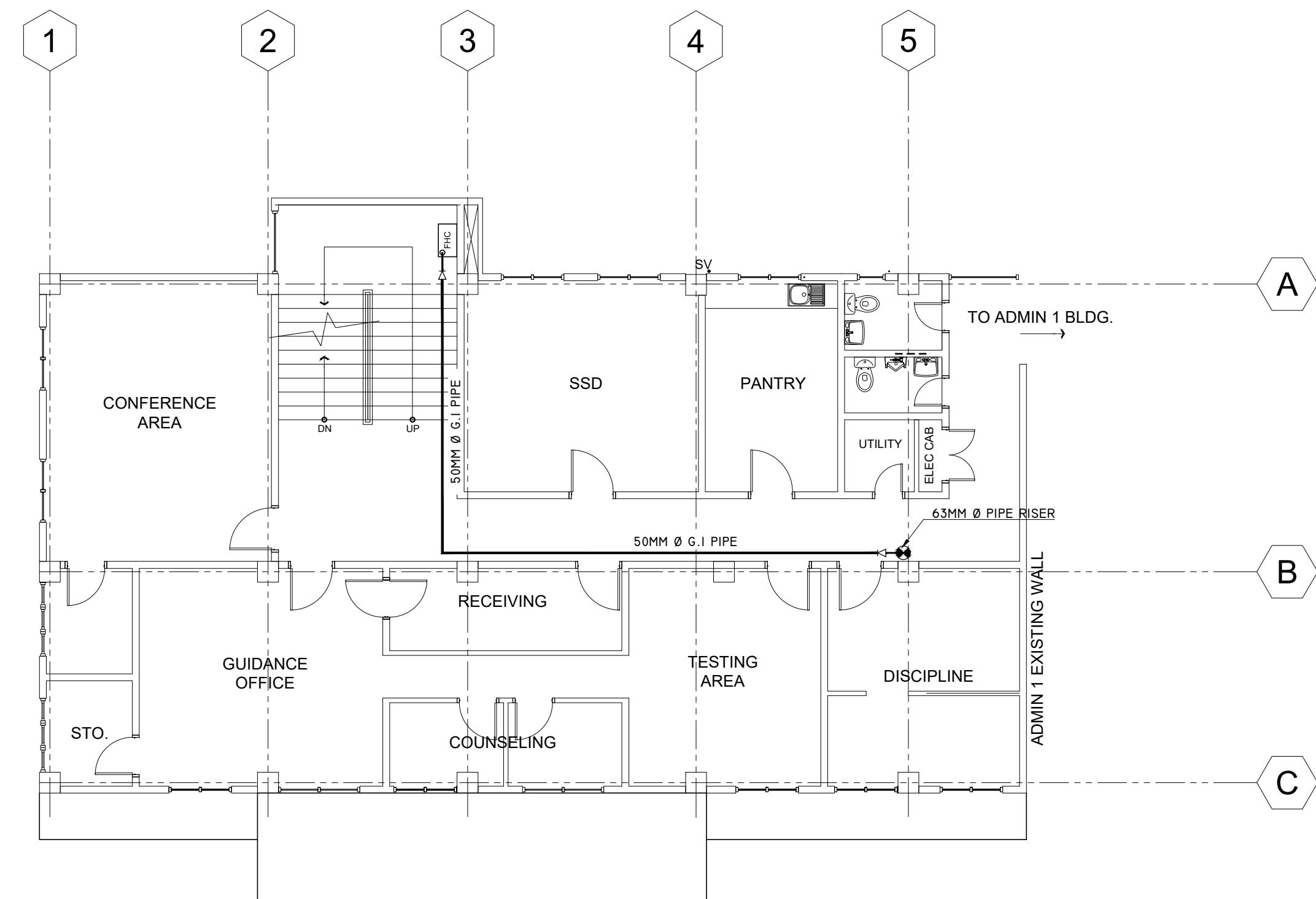
SHEET NO.	
M-01	
17	23

**GENERAL NOTES**

1. All works herein shall be executed in accordance to the provisions and codes of the Fire Code of the Philippines and the National Fire Protection Association (NFPA).
2. Pipes shall be installed as indicated, any relocation required shall be with prior approval of the consultant.
3. Coordinate entire installation of the fire protection system with work of all other trades prior to any fabrication or installation.
4. Deviations and revisions from the plans shall be referred to the designer for the review and approval..
5. Pipe hangers and sway braces location shall be as per NFPA Standard.
6. All pipe materials shall be Black Iron (B.I) pipe, Schedule 40, ASTM A53, new and clean. The same shall be primer painted and pipes shall be painted with red color code.
7. It is not intended that this drawing shall show all the details of the entire system, and therefore all the details not found therein such as pipes, fittings, control, valves, parts/components, etc., but needed to complete the project shall be furnished and installed by the contractor as part of the contract based on item #1 and in favor of the project.
8. All welding works shall be done only by a certified TESDA Class A welders.



01 **GROUND FLOOR FIRE PROTECTION LAYOUT PLAN**  
P-01 SCALE: 1:100



02 **SECOND FLOOR FIRE PROTECTION LAYOUT PLAN**  
P-01 SCALE: 1:100

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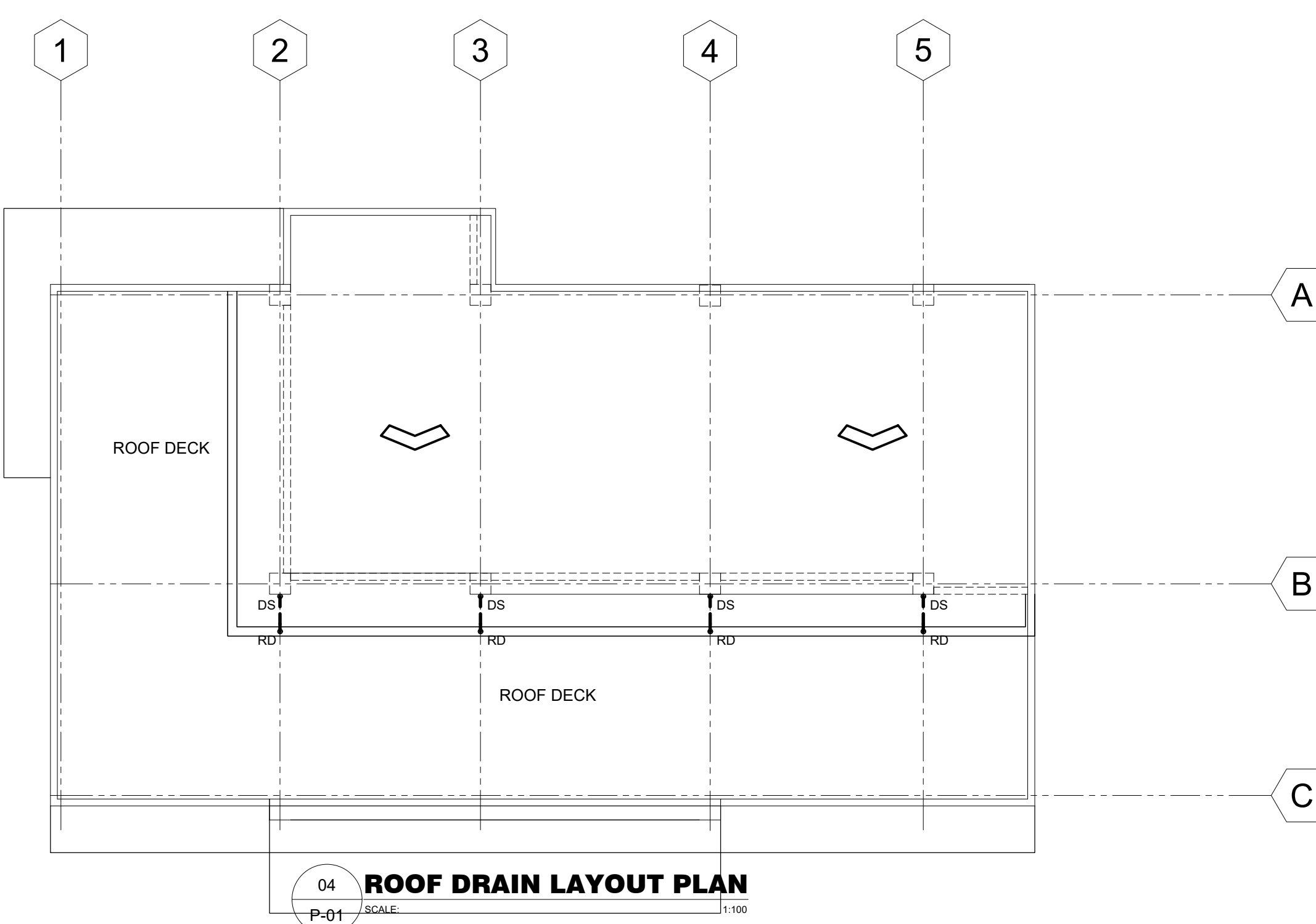
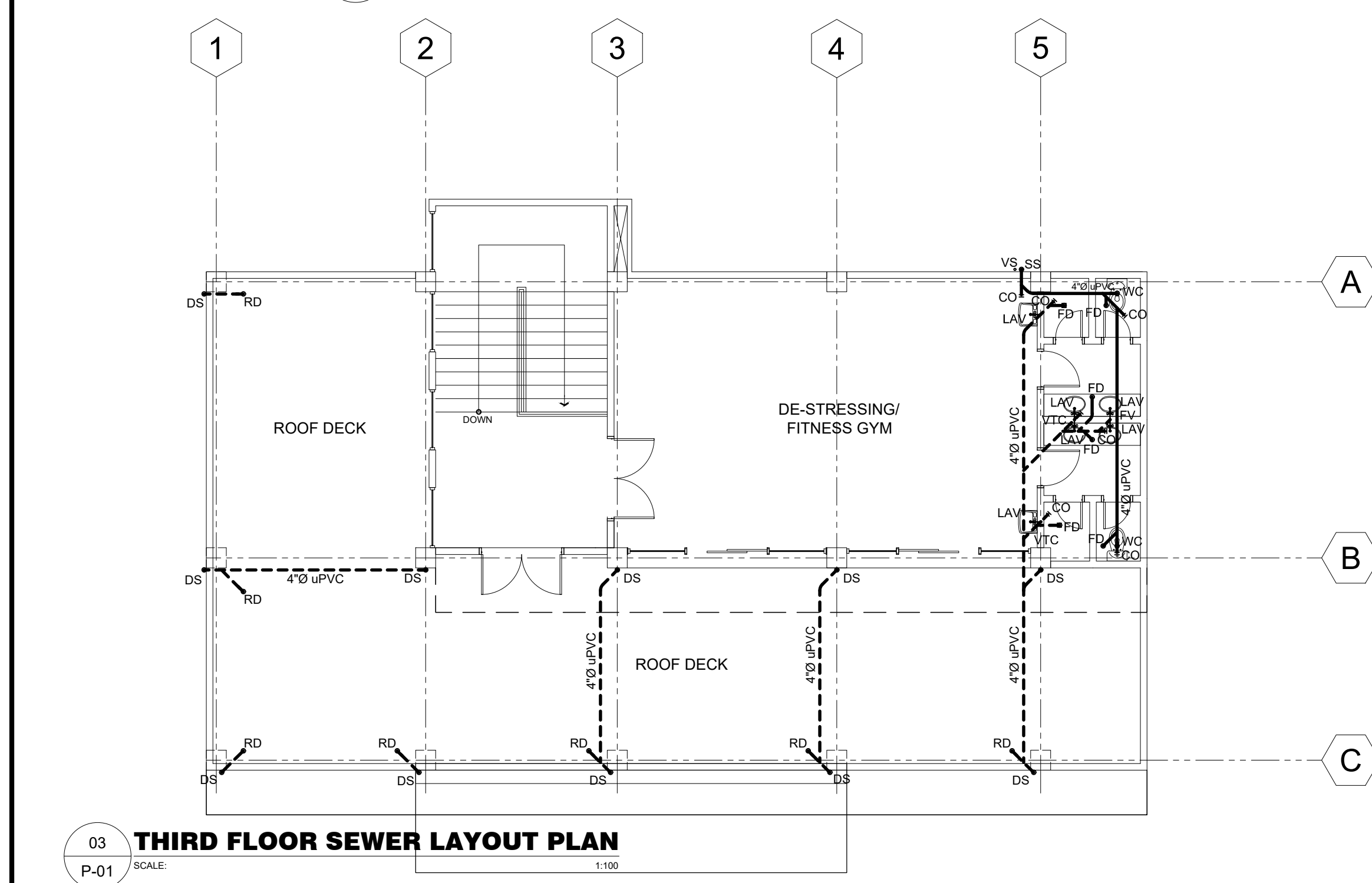
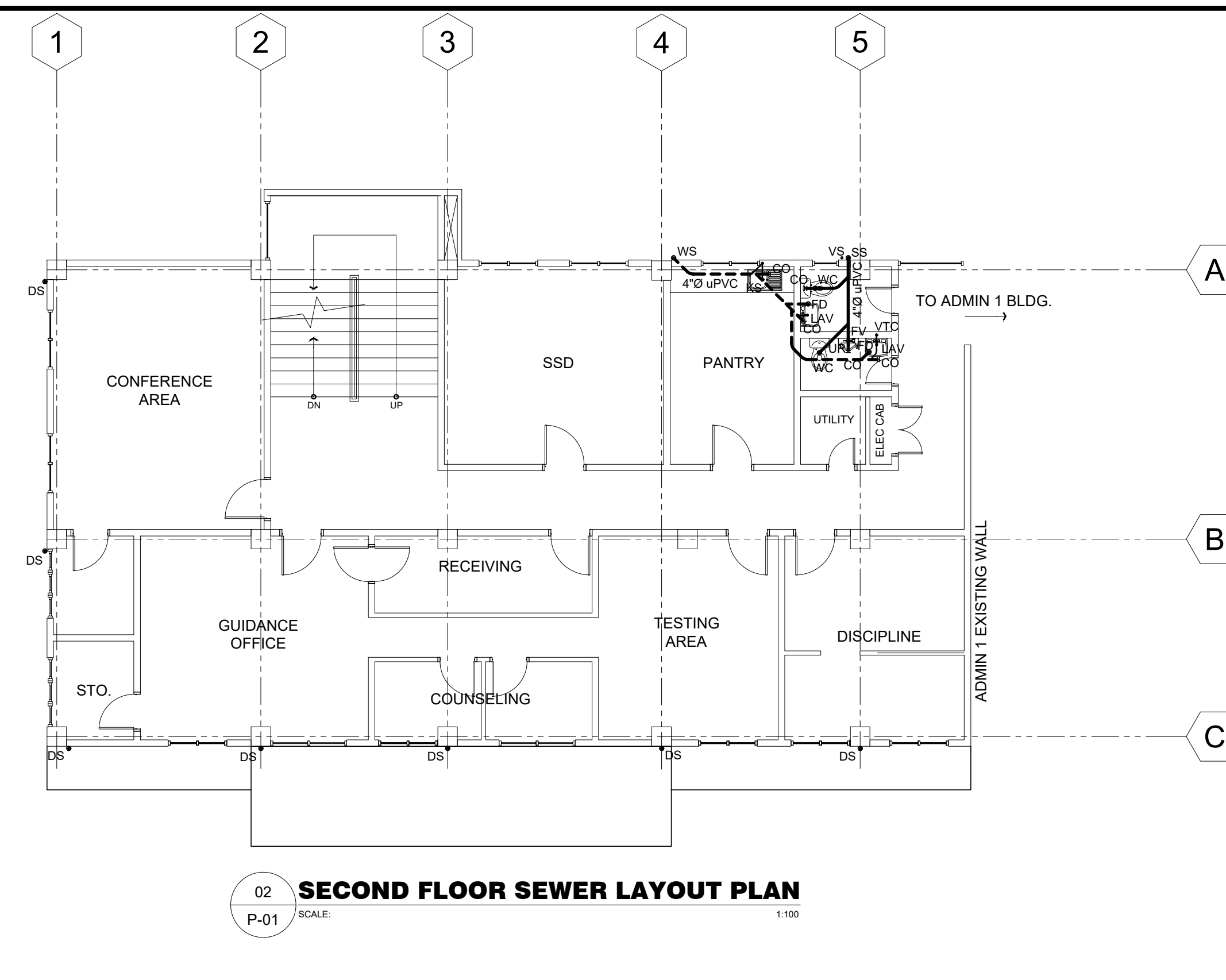
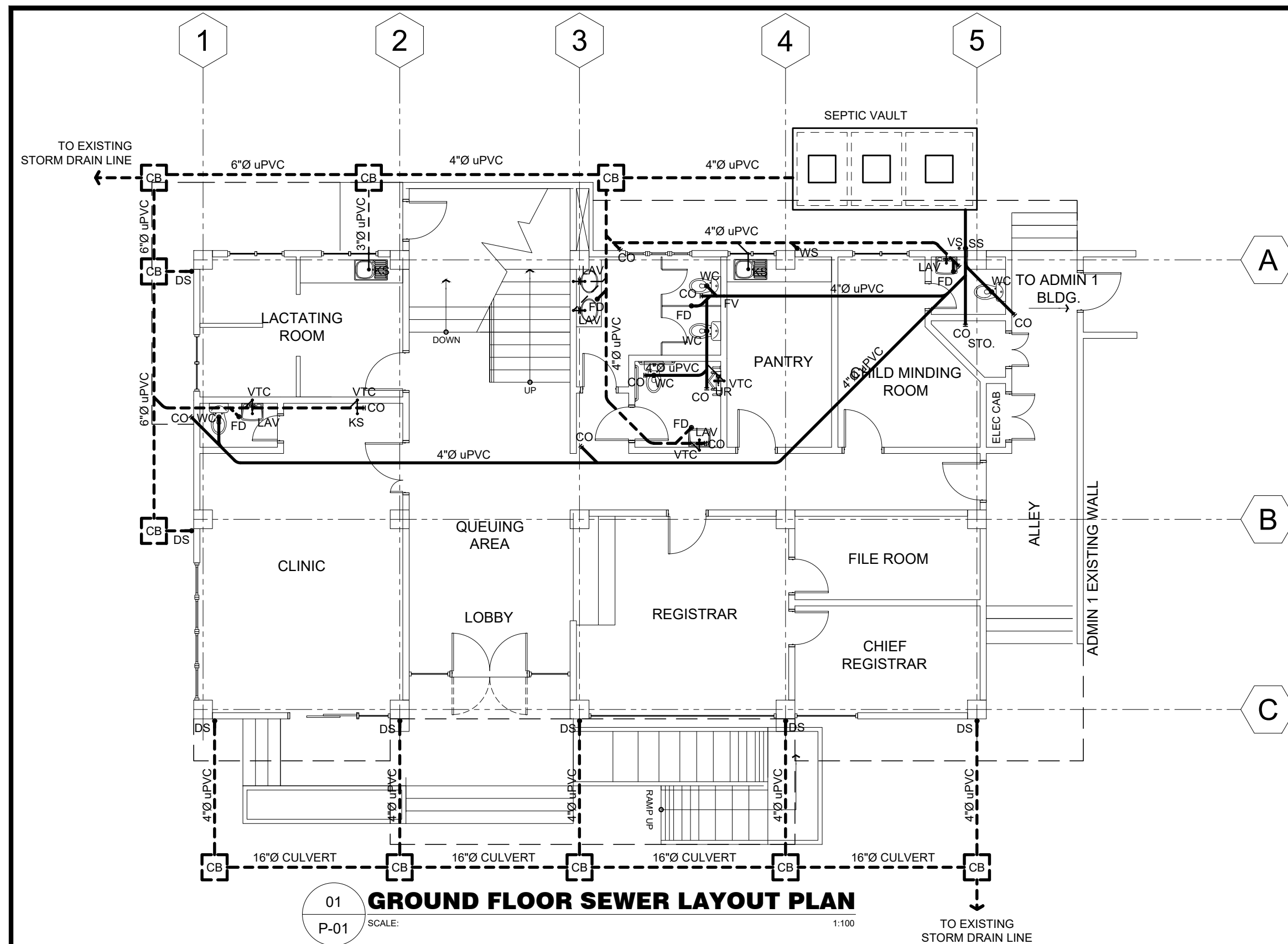
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PROF. MECHANICAL ENGINEER  
PRC Reg.No.: 3129 PTR No.: 7818015  
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**PROJECT TITLE / LOCATION**  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

**PREPARED BY:**  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
**CHECKED BY:**  
RESIDENT ENGINEER

<b>SHEET NO.</b>	
M-02	
18	23



**LEGEND :**

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

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architectural designs  
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**MICHAEL T. ANG**  
MASTER PLUMBER  
PRC Reg.No.: 2174 PTR No.: 7805117  
TIN No.: 123-875-856 Date: 01/04/18

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**APPROVED BY**  
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OWNER  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

**PREPARED BY:**  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
**CHECKED BY:**  
RESIDENT ENGINEER

**SHEET NO.**

P-01
19   23

# 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 ANCHOR EVERY 3.00M. INTERVALS.

ALL MATERIALS SHALL BE NEW AND APPROVED TYPES:

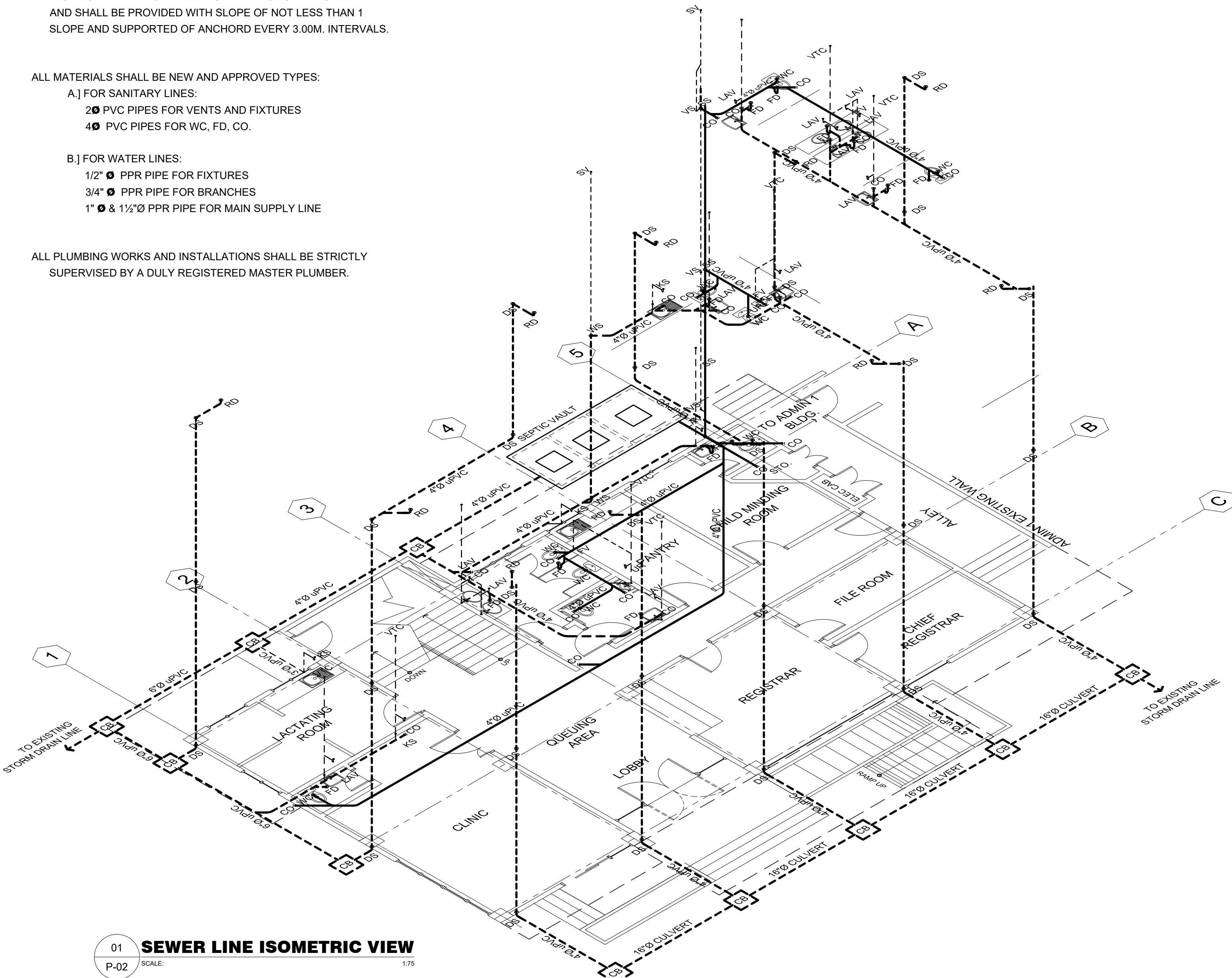
A.) FOR SANITARY LINES:

- 2" PVC PIPES FOR VENTS AND FIXTURES
- 4" PVC PIPES FOR WC, FD, CO.

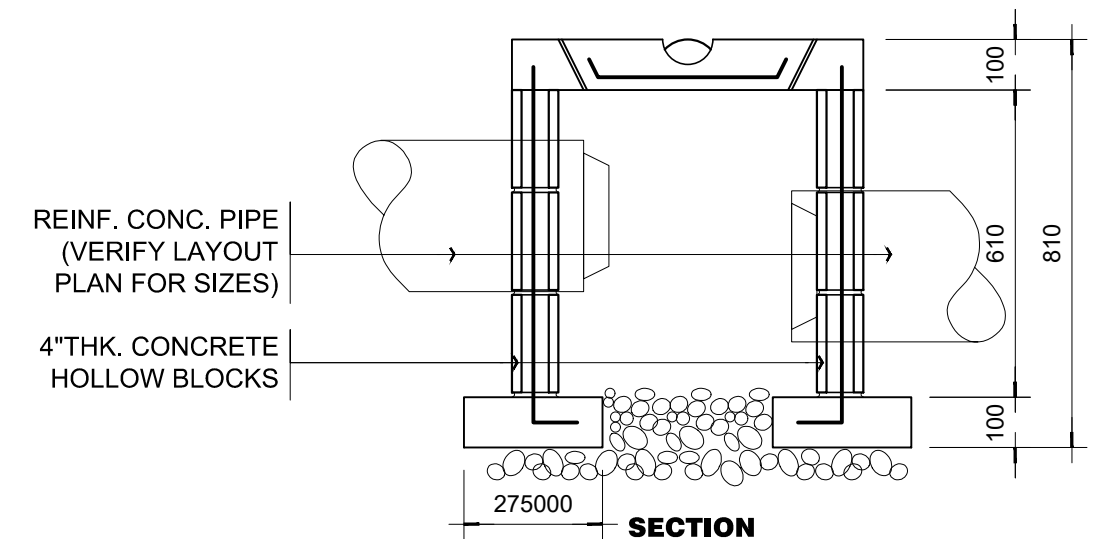
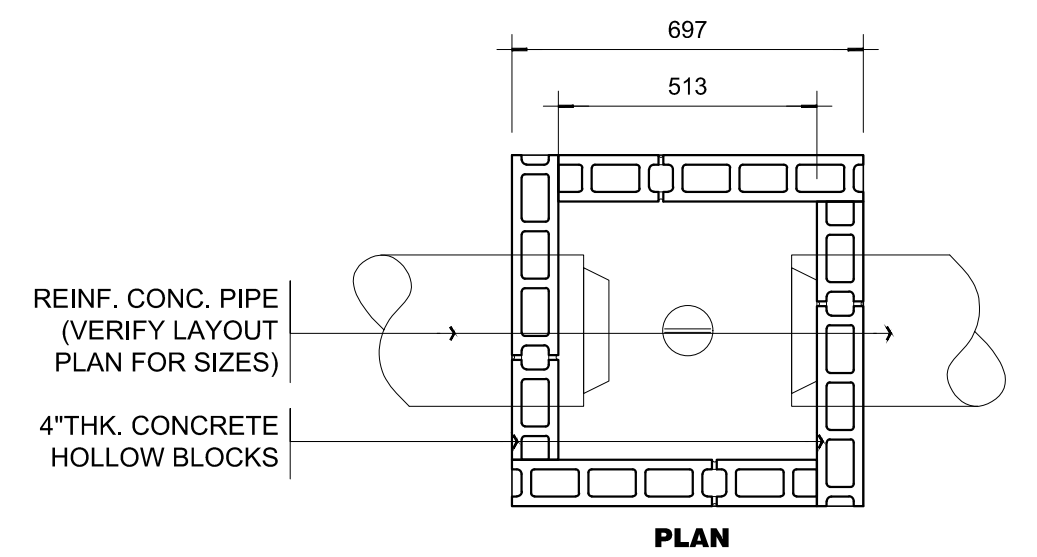
B.) FOR WATER LINES:

- 1/2" PPR PIPE FOR FIXTURES
- 3/4" PPR PIPE FOR BRANCHES
- 1" & 1 1/2" PPR PIPE FOR MAIN SUPPLY LINE

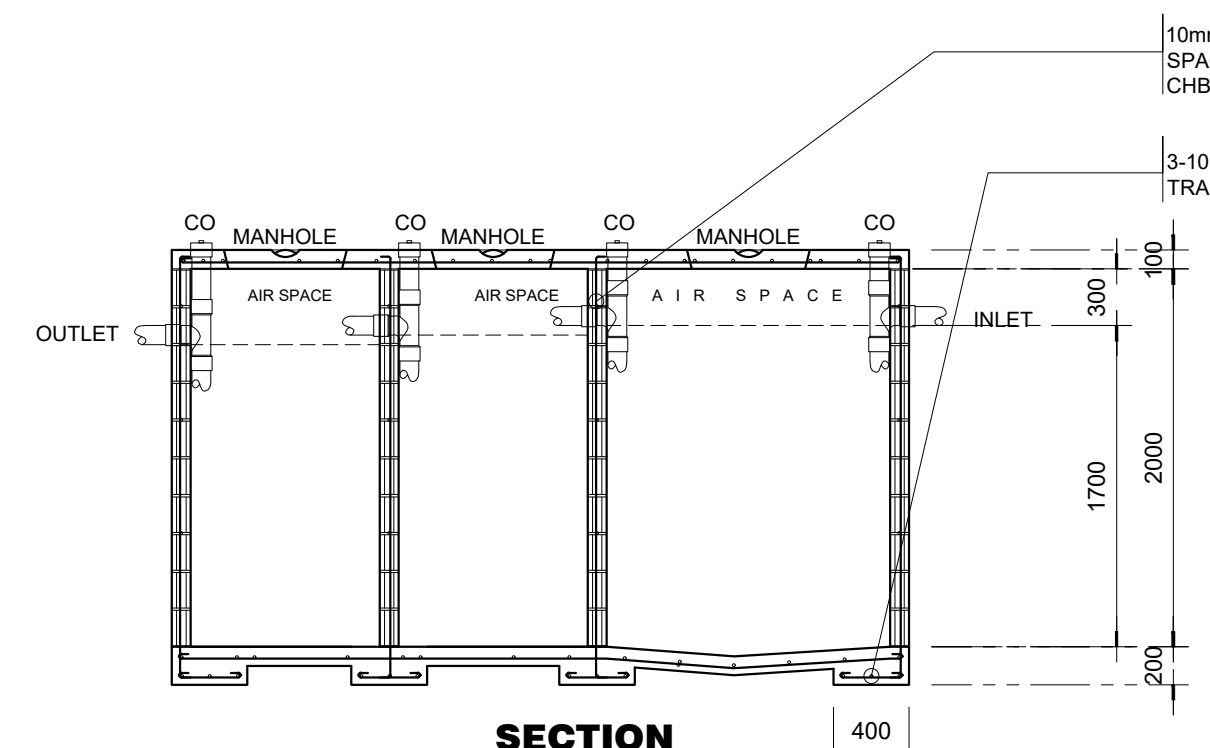
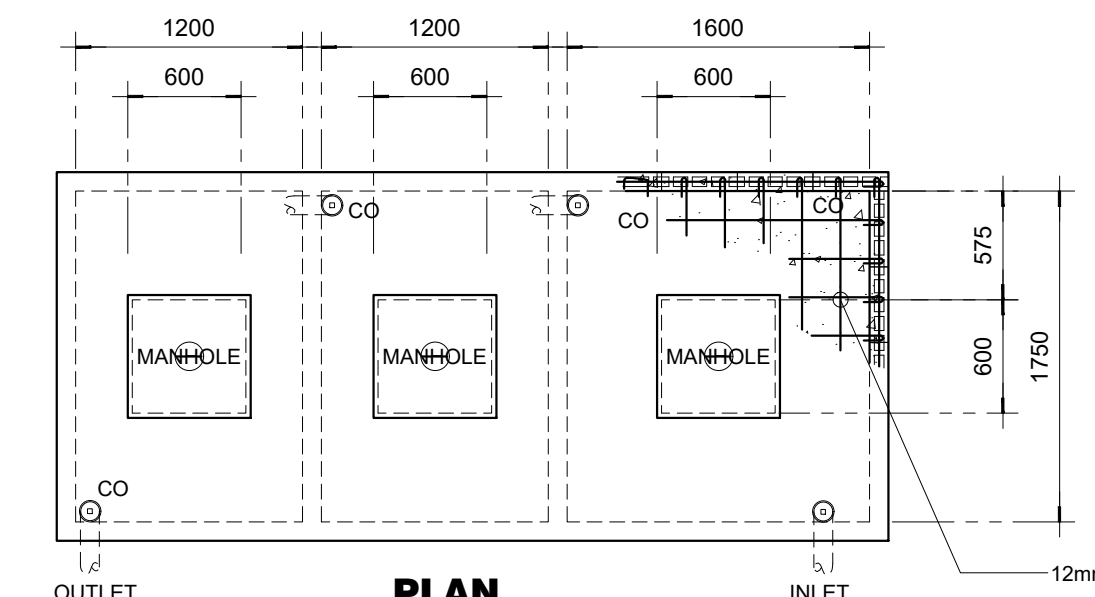
ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE STRICTLY SUPERVISED BY A DULY REGISTERED MASTER PLUMBER.



**01 SEWER LINE ISOMETRIC VIEW**  
P-02 SCALE: 1/75



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



**03 SEPTIC VAULT DETAILS**  
P-02 SCALE: 1/40

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

**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	7805115
DATE ISS	04 JAN 2018
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.

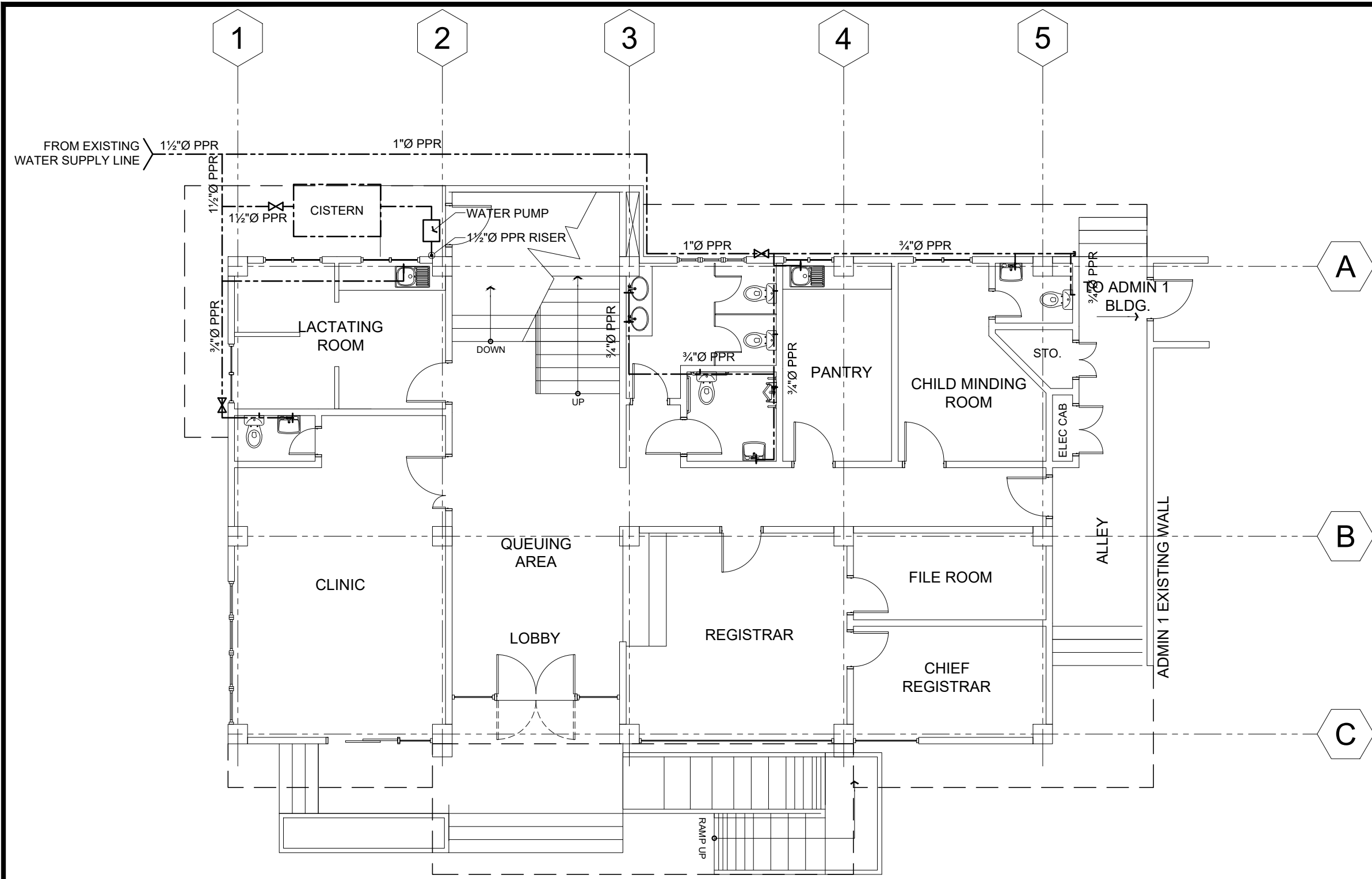
**MICHAEL T. ANG**  
MASTER PLUMBER  
PRC Reg. No.: 2174 PTR No.: 7805117  
TIN No.: 123-875-856 Date: 01/04/18

**PROJECT TITLE / LOCATION**  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

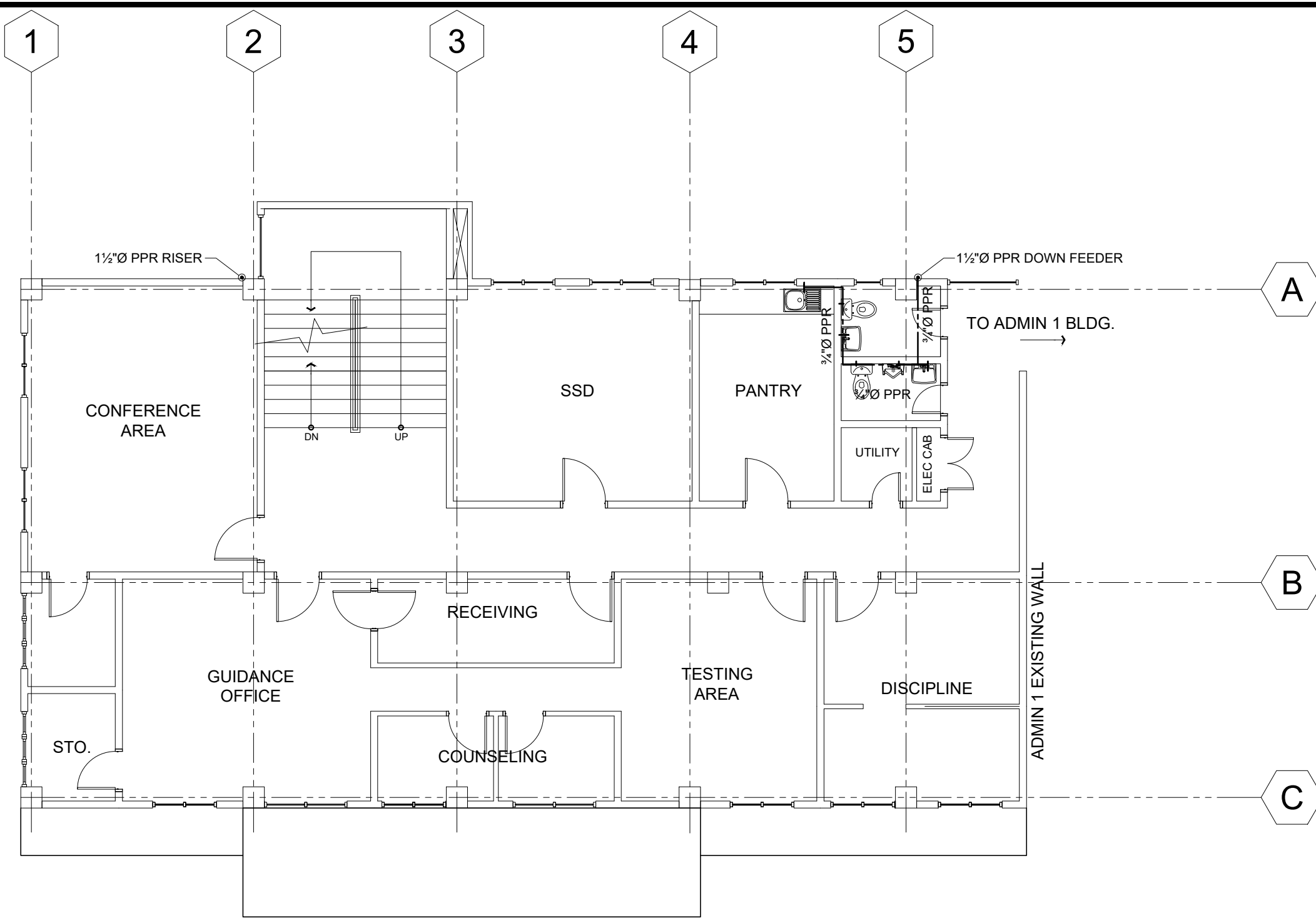
**APPROVED BY**  
**CHUCHI P. GARGANERA, PH. D.**  
OWNER  
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

**PREPARED BY:**  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
**CHECKED BY:**  
RESIDENT ENGINEER

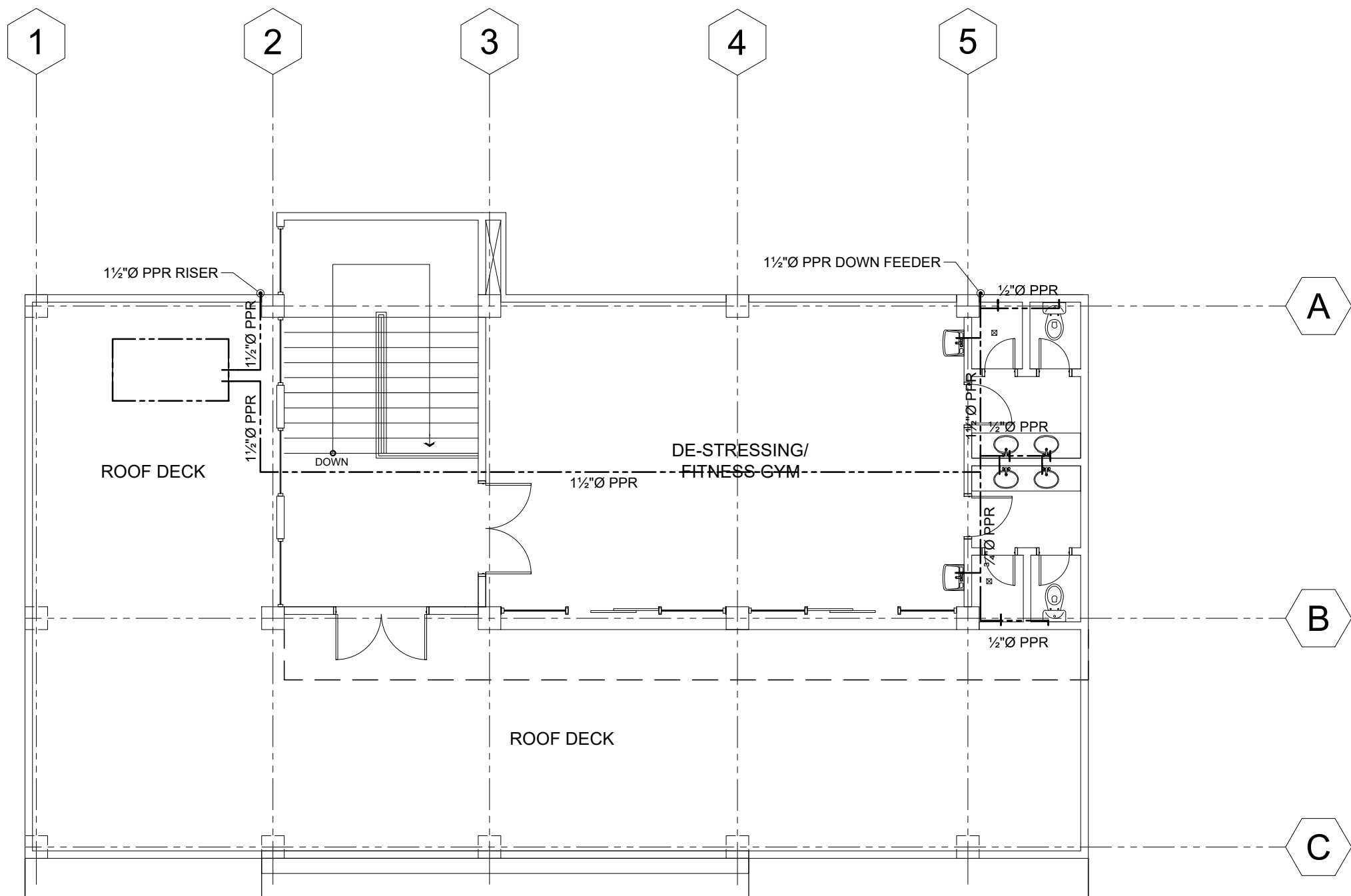
SHEET NO.	
P-02	
20	23



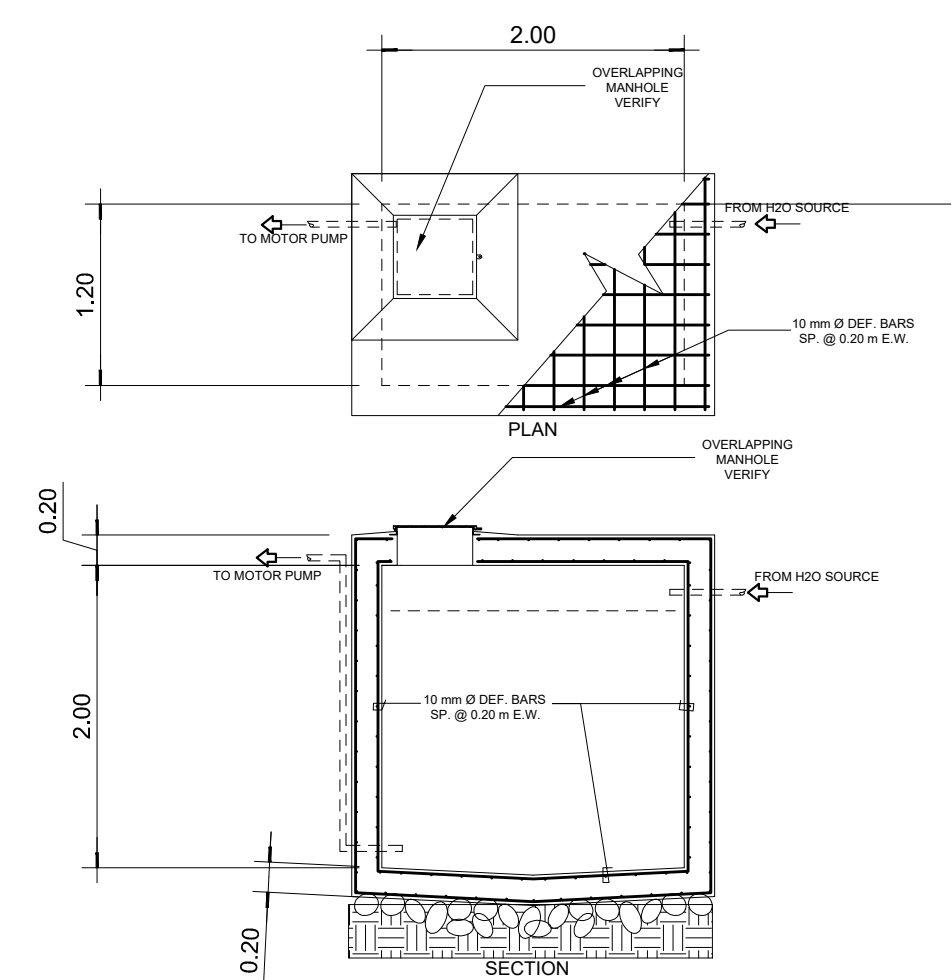
01 **GROUND FLOOR WATER SUPPLY LINE LAYOUT PLAN**  
P-01 SCALE: 1:100



02 **SECOND FLOOR WATER SUPPLY LINE LAYOUT PLAN**  
P-01 SCALE: 1:100



03 **THIRD FLOOR WATER SUPPLY LINE LAYOUT PLAN**  
P-01 SCALE: 1:100



04 **CISTERN TANK DETAILS**  
P-03 SCALE: 1:50

LEGEND :	
WC	WATER CLOSET
LAV	LAVATORY
KS	KITCHEN SINK
FD	FLOOR DRAIN
UR	URINAL
FV	FIXTURE VENT
SK	SLOP SINK
DS	DOWN SPOUTS
RD	ROOF DRAIN
CO	CLEAN OUT
SS	SOIL STACK
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WS	WASTE STACK
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SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT

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**MICHAEL T. ANG**  
MASTER PLUMBER  
PRC Reg. No.: 2174 PTR No.: 7805117  
TIN No.: 123-875-856 Date: 01/04/18

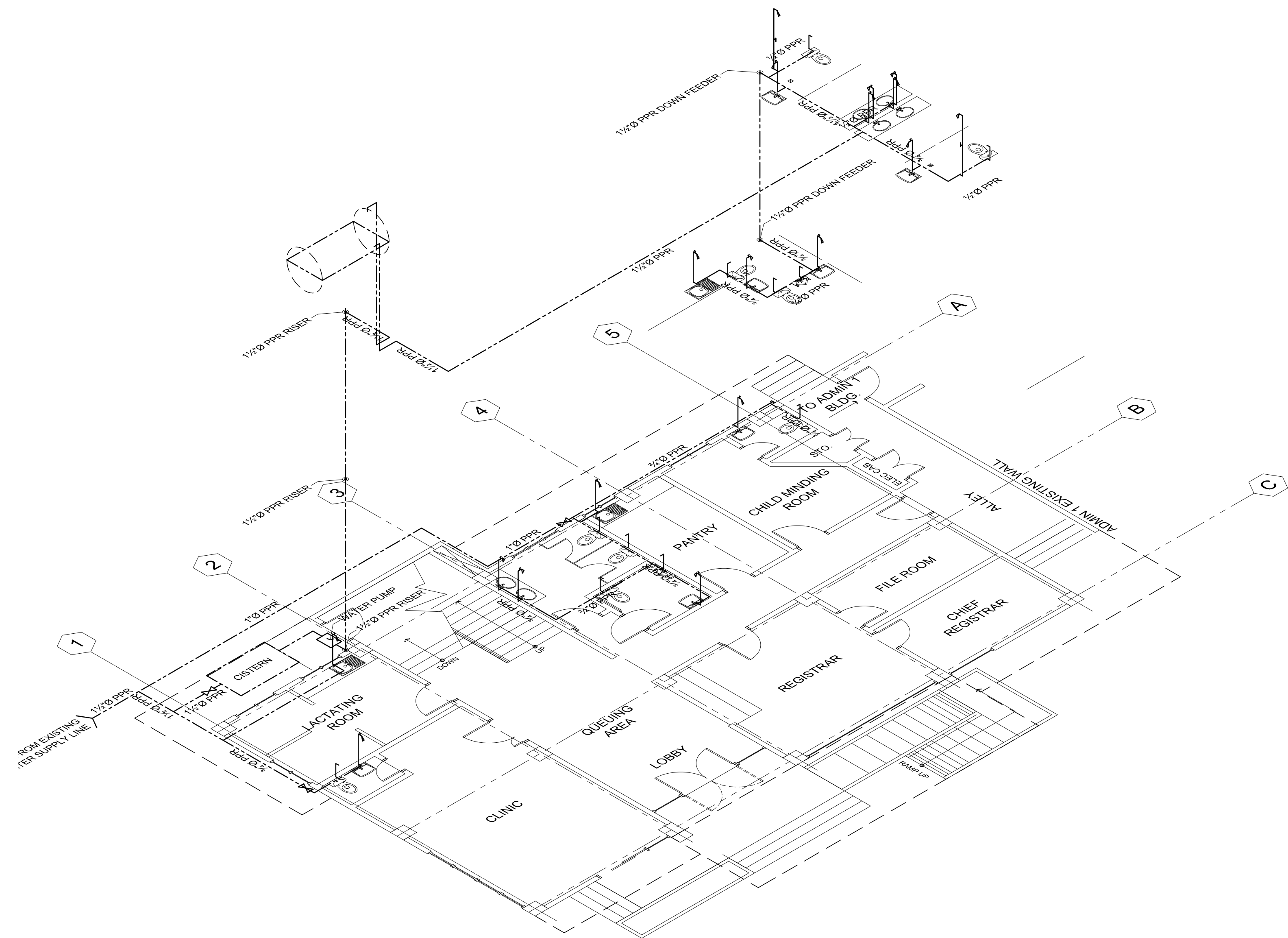
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

**PREPARED BY:**  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
**CHECKED BY:**  
RESIDENT ENGINEER

SHEET NO.	
P-03	
21	23

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



01 WATER SUPPLY LINE ISOMETRIC VIEW  
P-04 SCALE: 1/75

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

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**MICHAEL T. ANG**  
MASTER PLUMBER

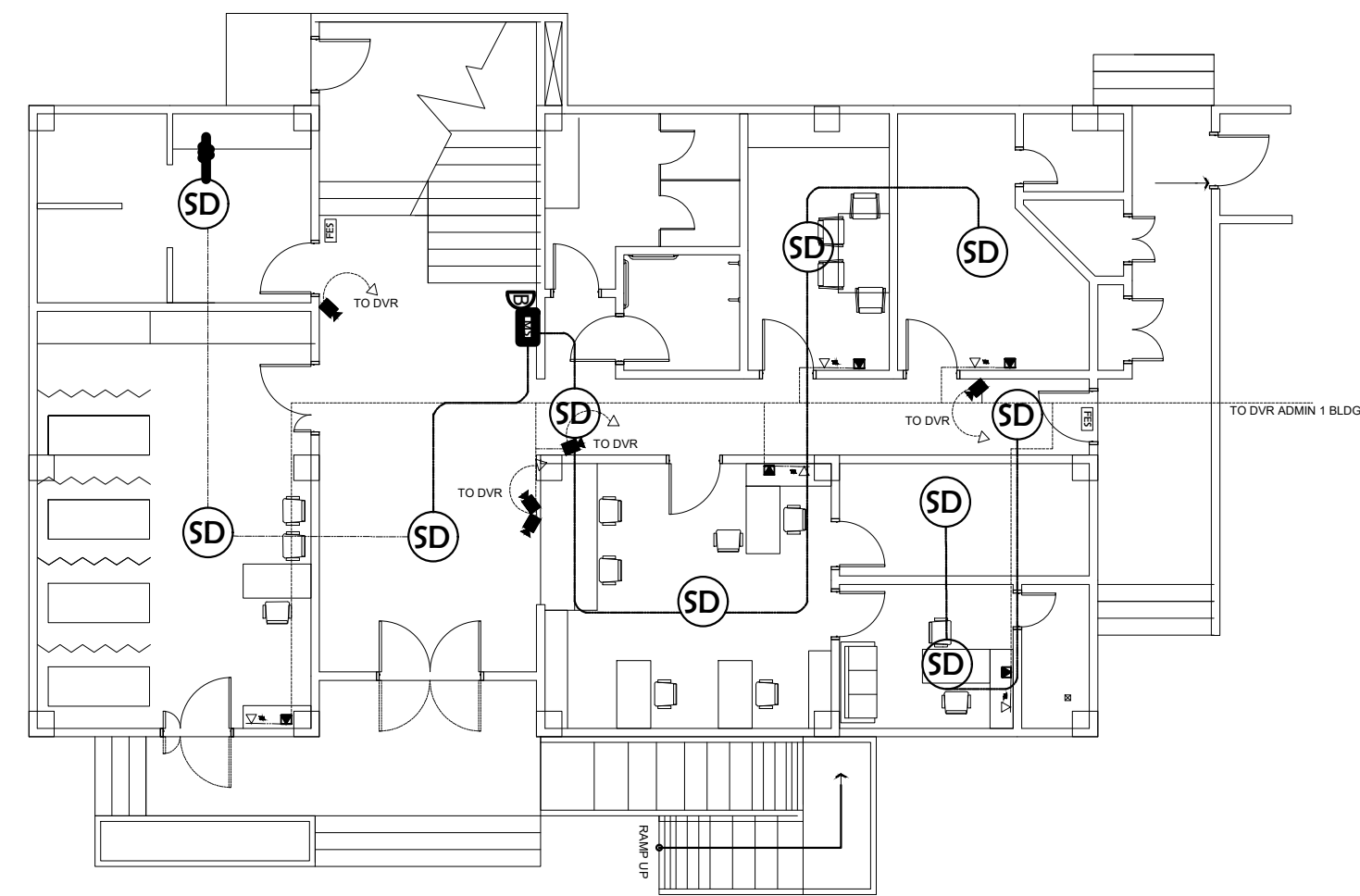
PRC Reg.No.: 2174 PTR No.: 7805117  
TIN No.: 123-875-856 Date: 01/04/18

**PROJECT TITLE / LOCATION**  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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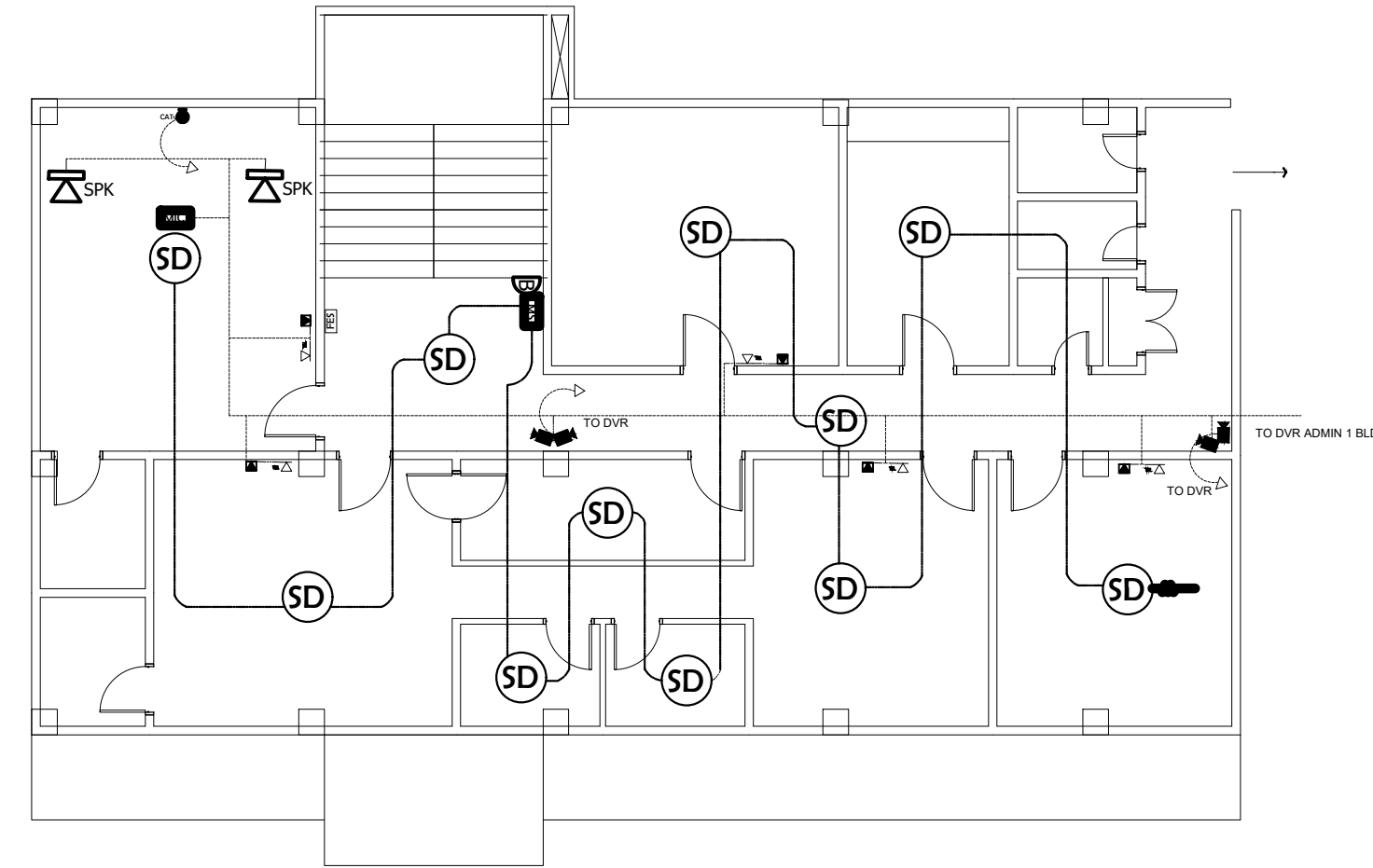
**PREPARED BY:**  
**RANILE ESPINA CORDOVA**  
SENIOR DESIGN ARCHITECT  
**CHECKED BY :**  
RESIDENT ENGINEER

SHEET NO.	
P-04	
22	23



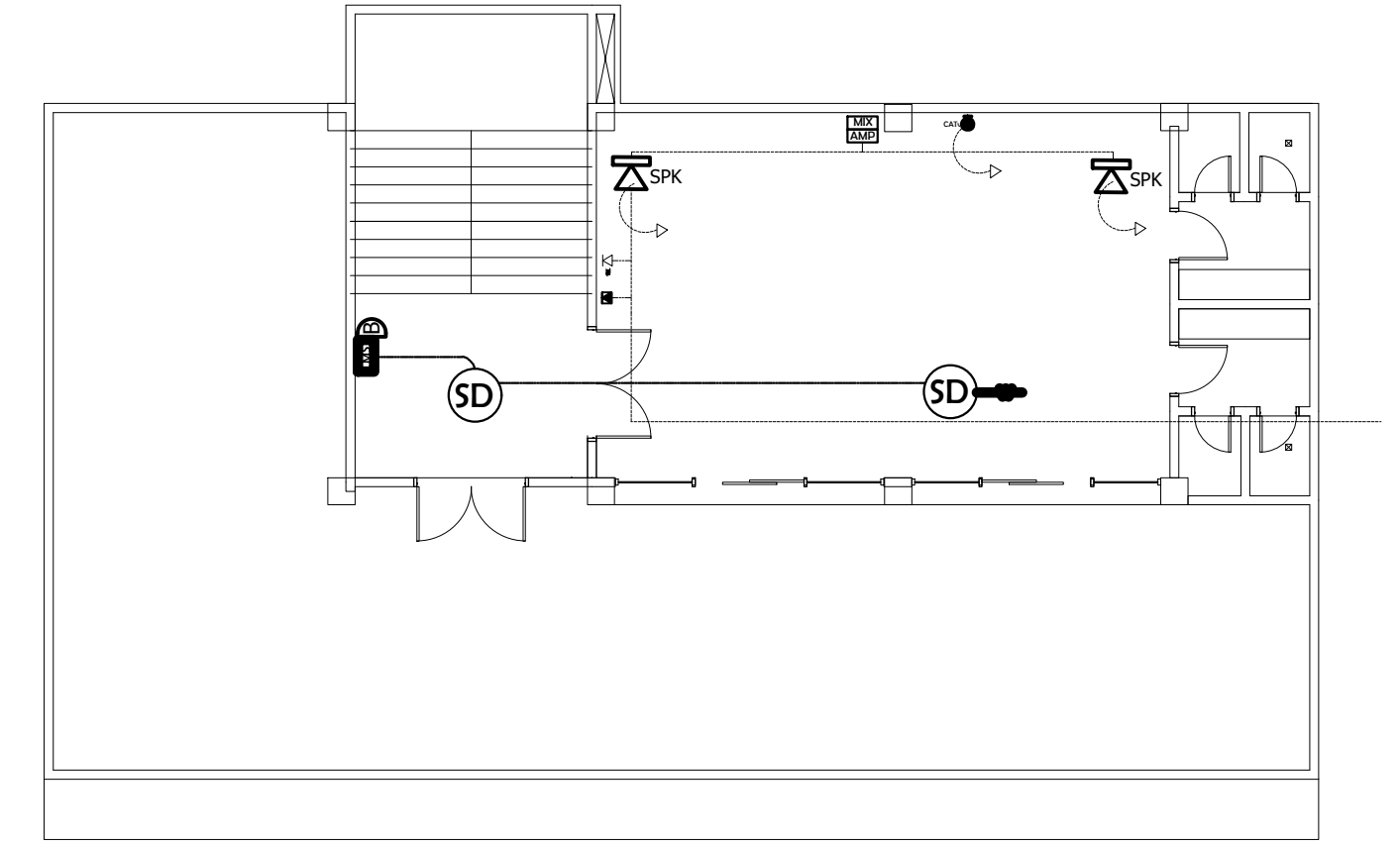
**GROUND FLOOR FIRE DETECTION & ALARM SYSTEM LAYOUT**

SCALE: 1:100



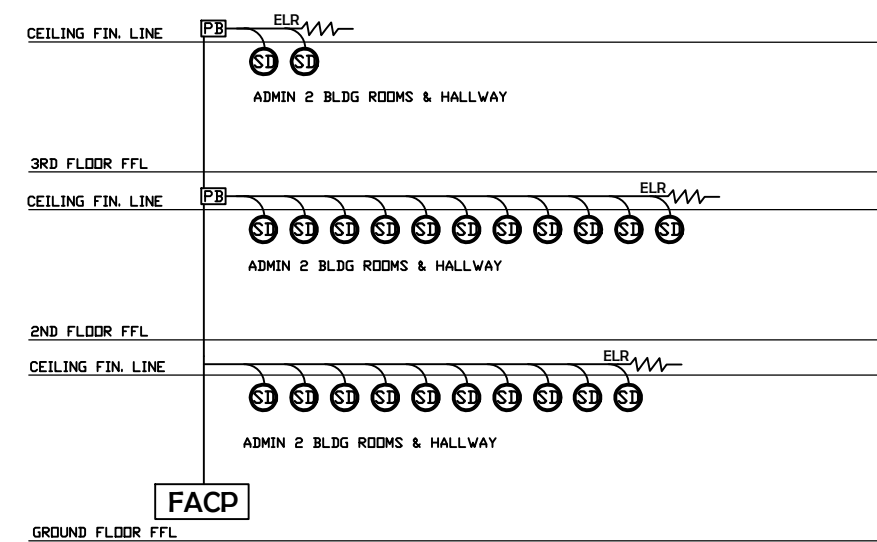
**SECOND FLOOR FIRE DETECTION & ALARM SYSTEM LAYOUT**

SCALE: 1:100



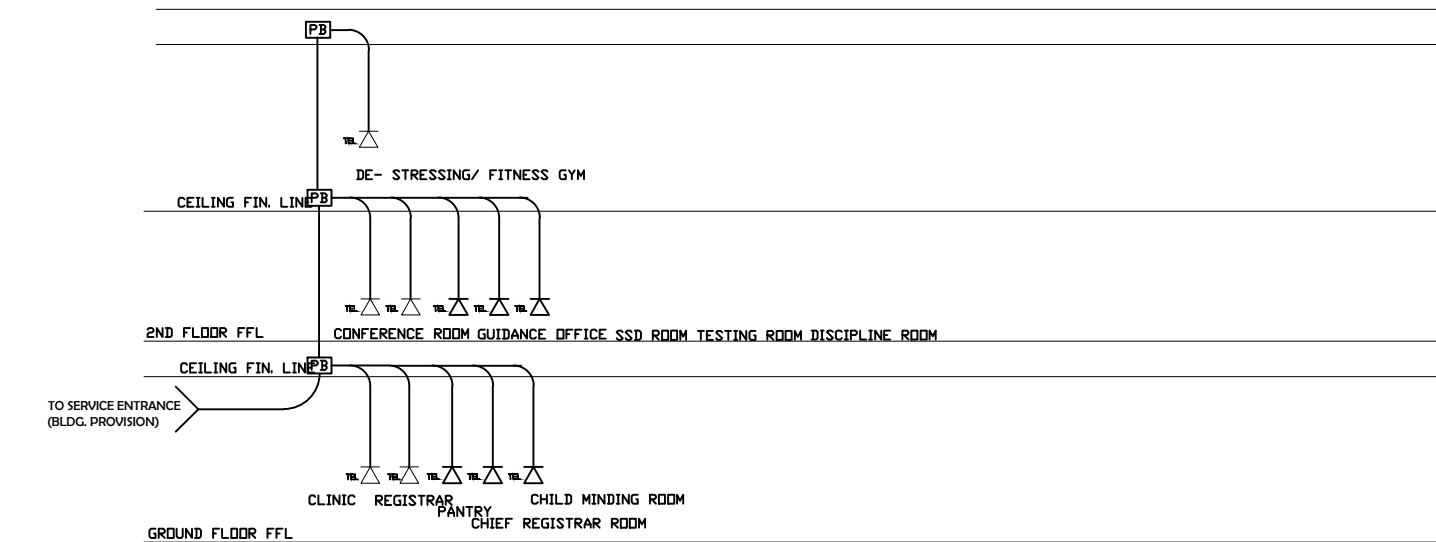
**THIRD FLOOR FIRE DETECTION & ALARM SYSTEM LAYOUT**

SCALE: 1:100



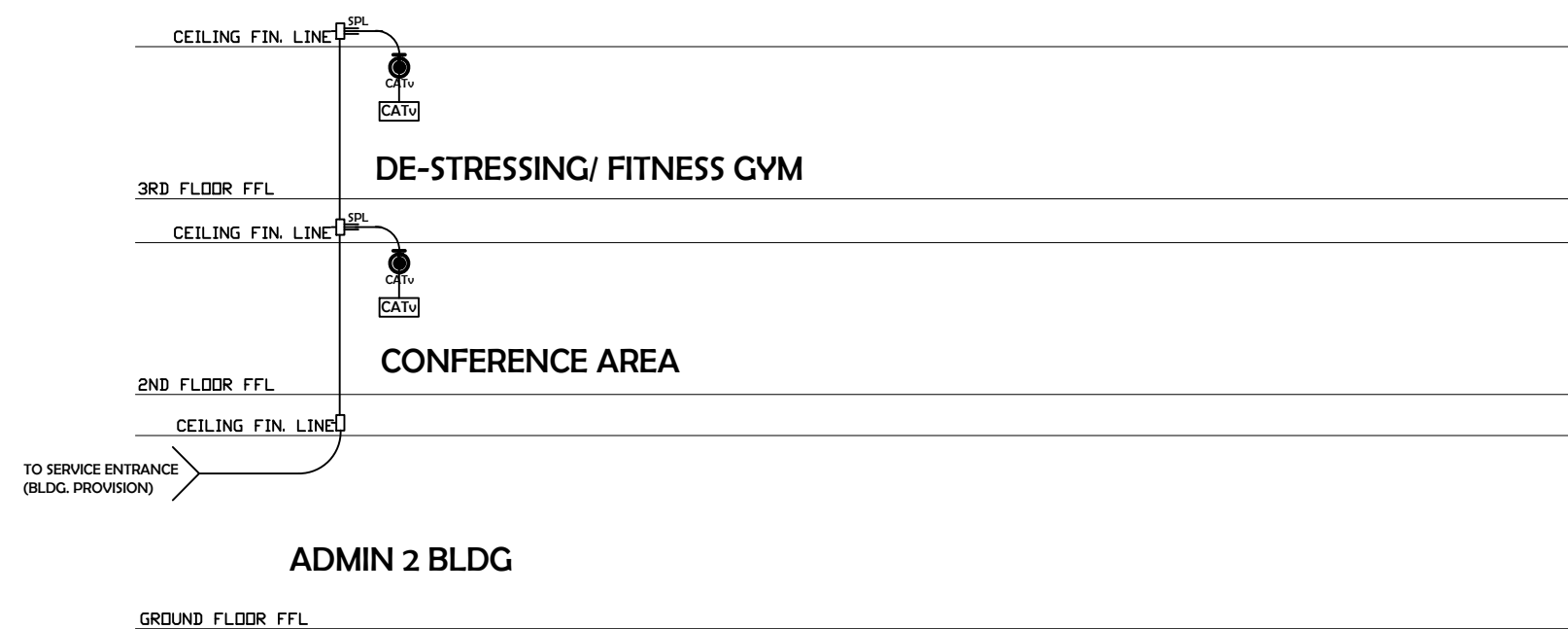
**ADMIN 2 FIRE DETECTION ALARM SYSTEM SINGLE LINE RISER DIAGRAM**

NOT TO SCALE



**ADMIN 2 TELEPHONE SINGLE LINE RISER DIAGRAM**

NOT TO SCALE



**ADMIN 2 CABLE TV SINGLE LINE RISER DIAGRAM**

NOT TO SCALE

**GENERAL SPECIFICATIONS:**

- THIS DRAWING IS SCHEMATIC REPRESENTATION OF SYSTEM ONLY. TENDERS TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM AND WIRING METHODS RECOMMENDATION.
- SMOKE DETECTORS SHALL BE STAND ALONE BATTERY-OPERATED ONLY.
- WIRING INSTALLATION (CEILING CONCEALED, EMBEDDED, EXPOSED OR SURFACED) SHALL BE USED RSC OR EMT, 15mmØ MINIMUM.
- WIRING METHODS SHALL BE AS FOLLOWS:
  - A. LAN/TEL CABLE - #24 AWG 4 PAIRS UTP CABLE/CAT5-E/CAT6
  - B. CCTV CABLE - RG-59/6 COAX CABLE
- CONDUIT SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED.
- THIS ARRANGEMENT IS LIMITED TO DROP WERE ATTACHMENT OF UP TO 5 LINES.
- SPAN TO FIXTURE SHALL BE NOT EXCEED 45.7m.
- SERVICE SHALL BE SUFFICIENTLY HIGH TO PROVIDE PROPER DROP WIRE CLEARANCE OVER SIDE, STREETS OR ROADWAYS IN COMPLIANCE WITH THE CODES AND REGULATIONS.

**NOTES AND SPECIFICATIONS**

- ALL ELECTRONIC WORKS AND INSULATIONS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF PHIL.ELEC. CODE AS PER RA 9292 FIRE AND RULES AND REGULATION OF THE NATIONAL AND LOCAL AUTHORITY CONCERNS.
- ALL ELECTRONIC WORKS AND INSTALLATION SHALL BE PERFORMED UNDER THE STRICT SUPERVISION OF A DULY LICENSED PROFESSIONAL ELECTRICAL ENGINEER AS PER RA 9292 LINE.
- TELEPHONE UNIT MUST BE SEPARATED OF AT LEAST 300MM FROM ANY ELECTRICAL LINE.
- CAT 5 CABLE MUST BE USED.
- SMOKE DETECTORS, ALARM FIRE & AC LINE MUST BE SEPARATED AT LEAST 600MM.
- SMOKE AND CONTROL PANEL MUST BE LISTED.
- BACK UP BATTERY SHOULD BE ABLE TO SUPPORT FOR AT LOADS 24 HOURS.
- DETECTORS MAY BE PLACED NO CLOSE THAN 10 MM FROM THE WALL.
- FOR FIELD CONDITION WHICH REQUIRED DEVIATION IN THE PLAN OR AND ANY SUGGESTED CHANGES, THESE SHALL FIRST BE CONSULTED TO THE DESIGNER CONSULTANT FOR APPROVAL.

LEGEND/SYMBOLS/ABBREVIATIONS:	
	CCTV CAMERA
	LAN OUTLET
	WIFI ROUTER (ACCESS POINT)
	FIRE ALARM CONTROL PANEL
	COMPUTER
	FIRE DETECTION & ALARM SYSTEM
	LOCAL AREA NETWORK
	SMOKE DETECTOR
	END OF LINE RESISTOR
	FIRE ALARM BELL
	FIRE EXIT SIGN
	CABLE TV
	WALL-MOUNTED/SUSPENDED SPEAKER
	FLOOR-MOUNTED SPEAKER
	PRINTER

**M.T. Ang**  
architectural designs  
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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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**DARWIN D. NISPEROS**  
PROF. ELECTRONICS & COMM. ENGINEER  
PRC No.: 0472, 2016 PTR No.: 7797949  
TIN No.: 169-824-299 Date: 1/04/18 ISS. AT: GSC  
IECEP No.: 09-09657 Validity: 2018

**PROJECT TITLE / LOCATION**  
**PROPOSED ADMINISTRATION BUILDING (PHASE 2)**  
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:**  
JUNIOR ARCHITECT  
**CHECKED BY:**  
RESIDENT ENGINEER

**SHEET NO.**  
ECE-01  
23 23