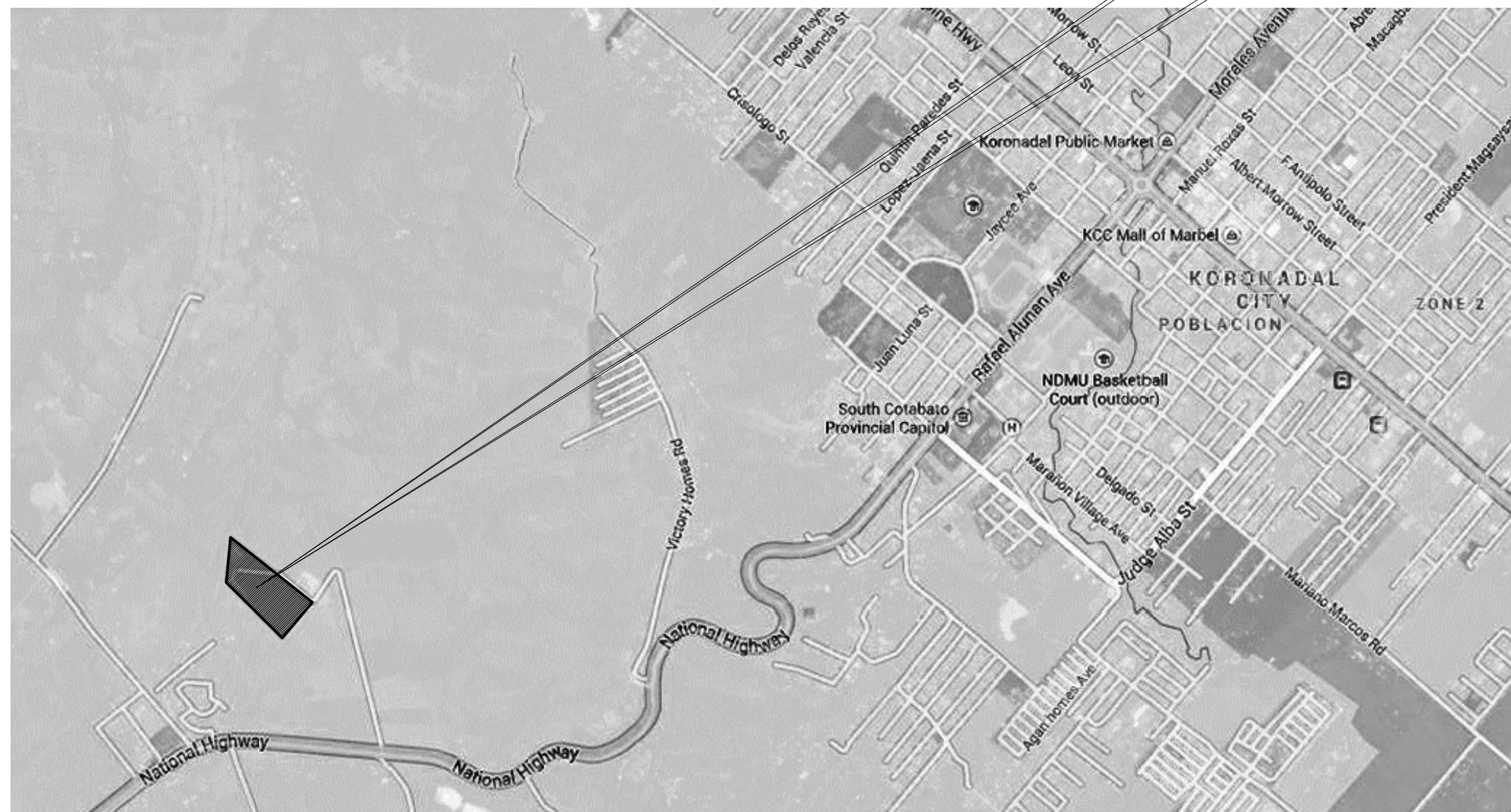
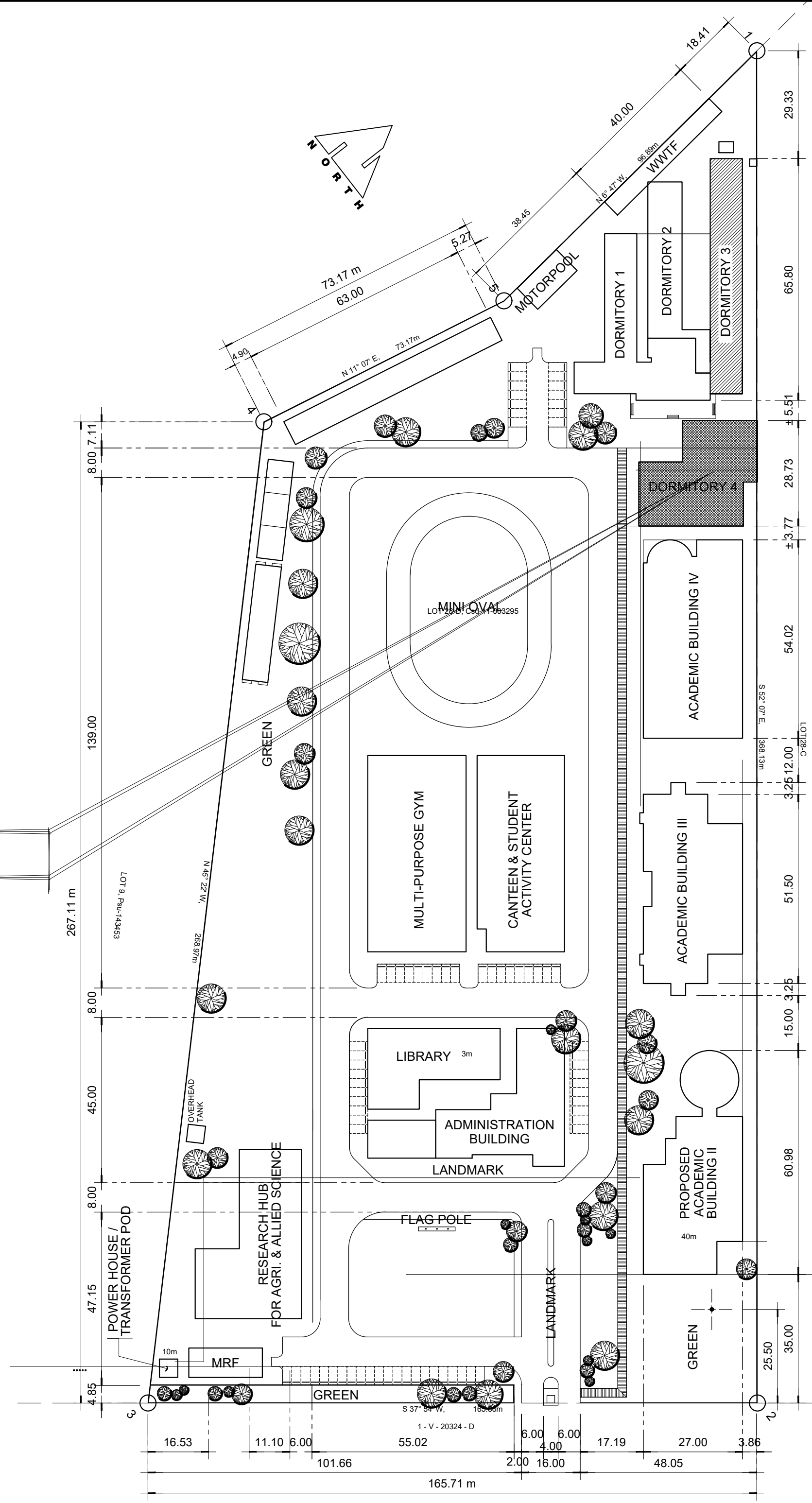




01 **PERSPECTIVE**
A-01 SCALE: NTS



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



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

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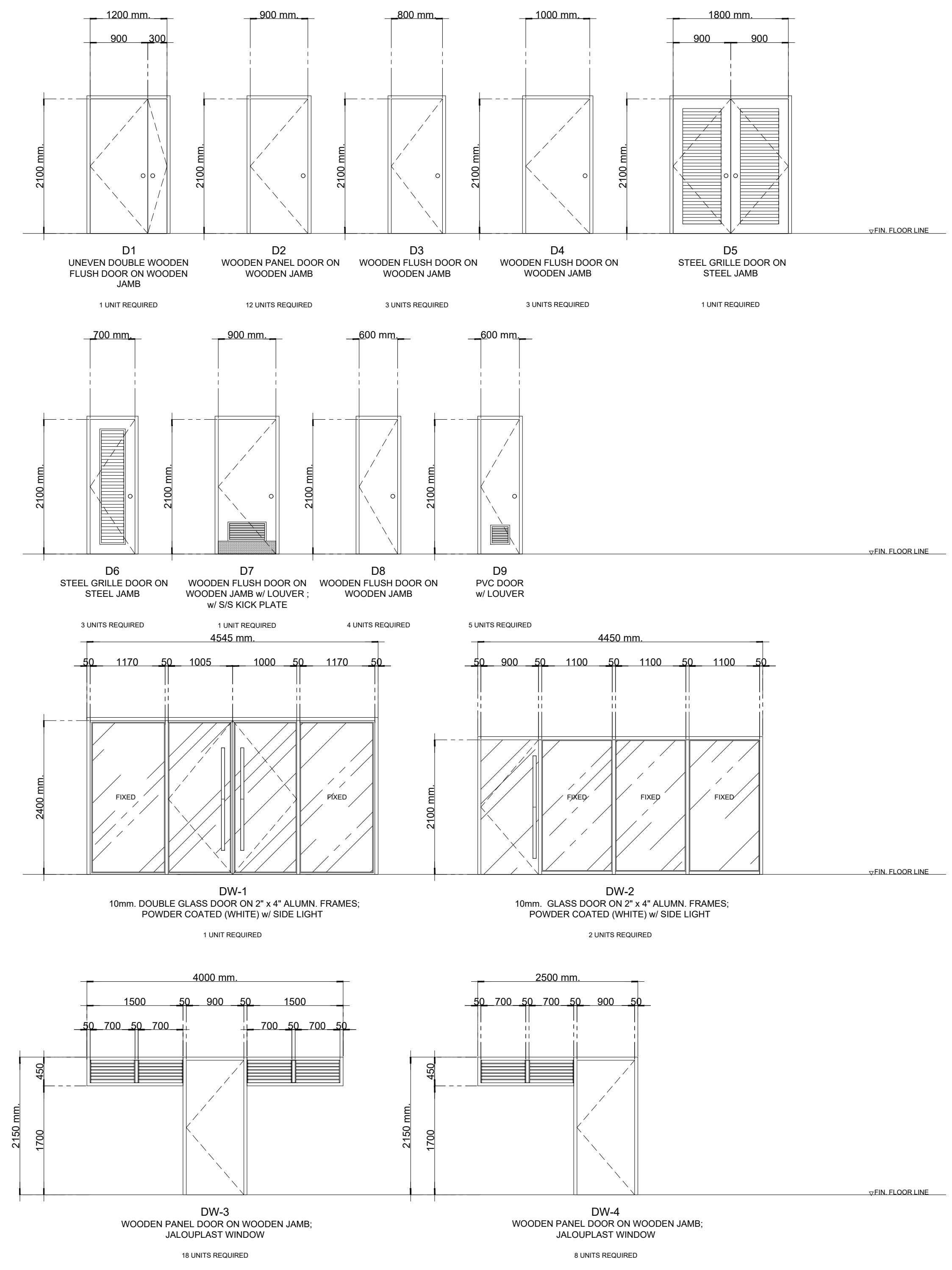
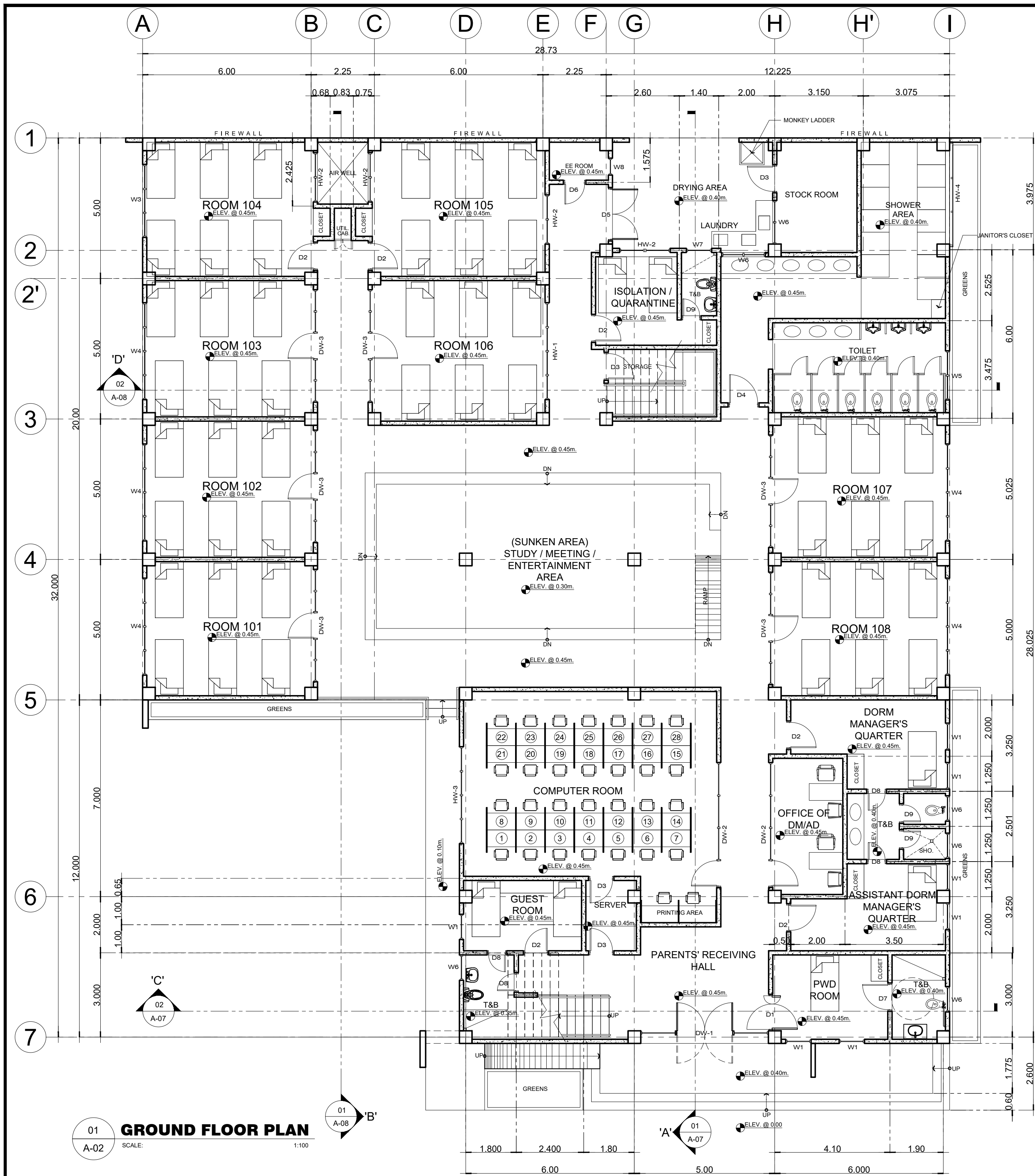
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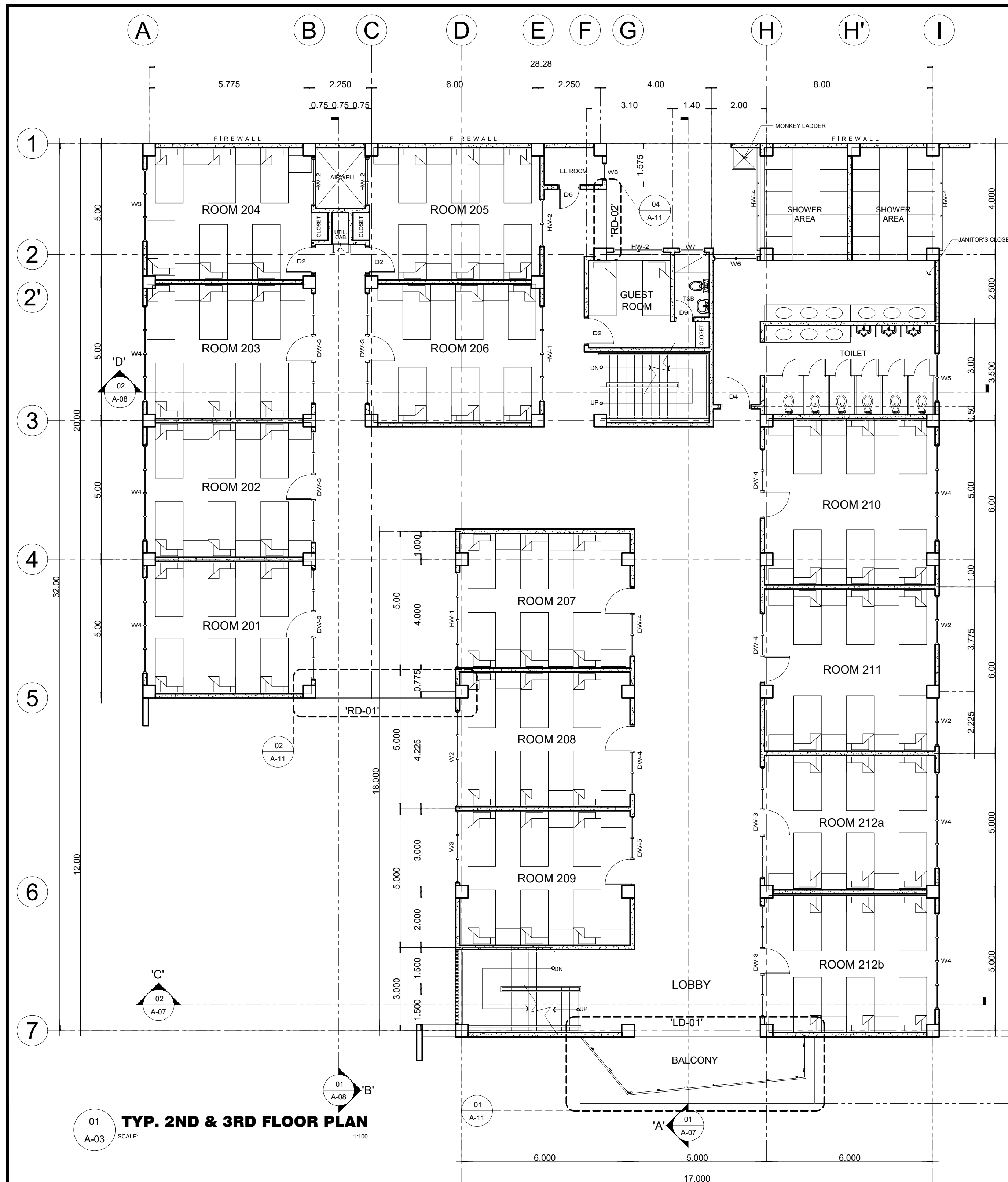
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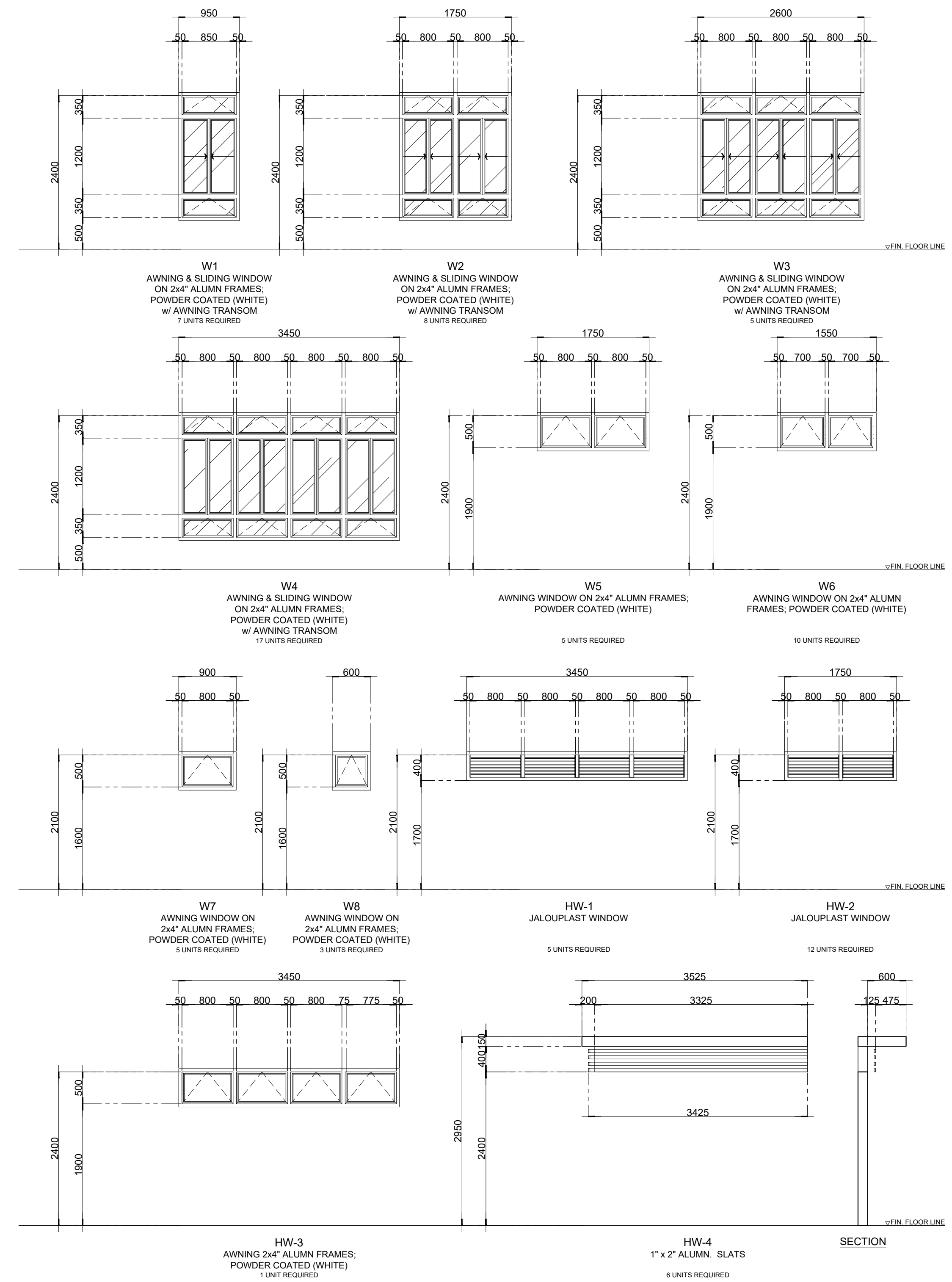
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01 **TYP. 2ND & 3RD FLOOR PLAN**
A-03 SCALE: 1:100



02 **SCHEDULE OF WINDOWS**
A-03 SCALE: 1:50

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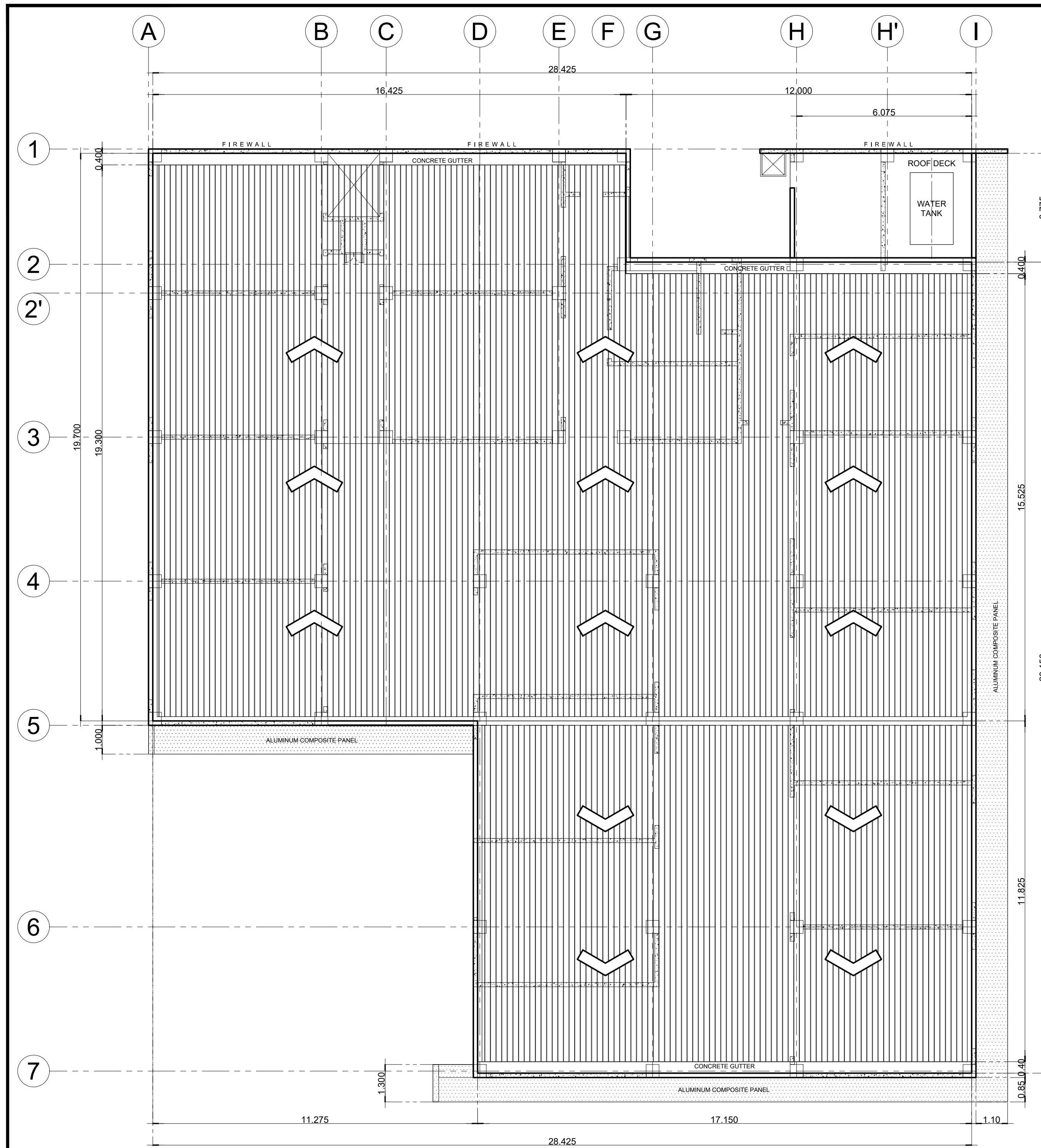
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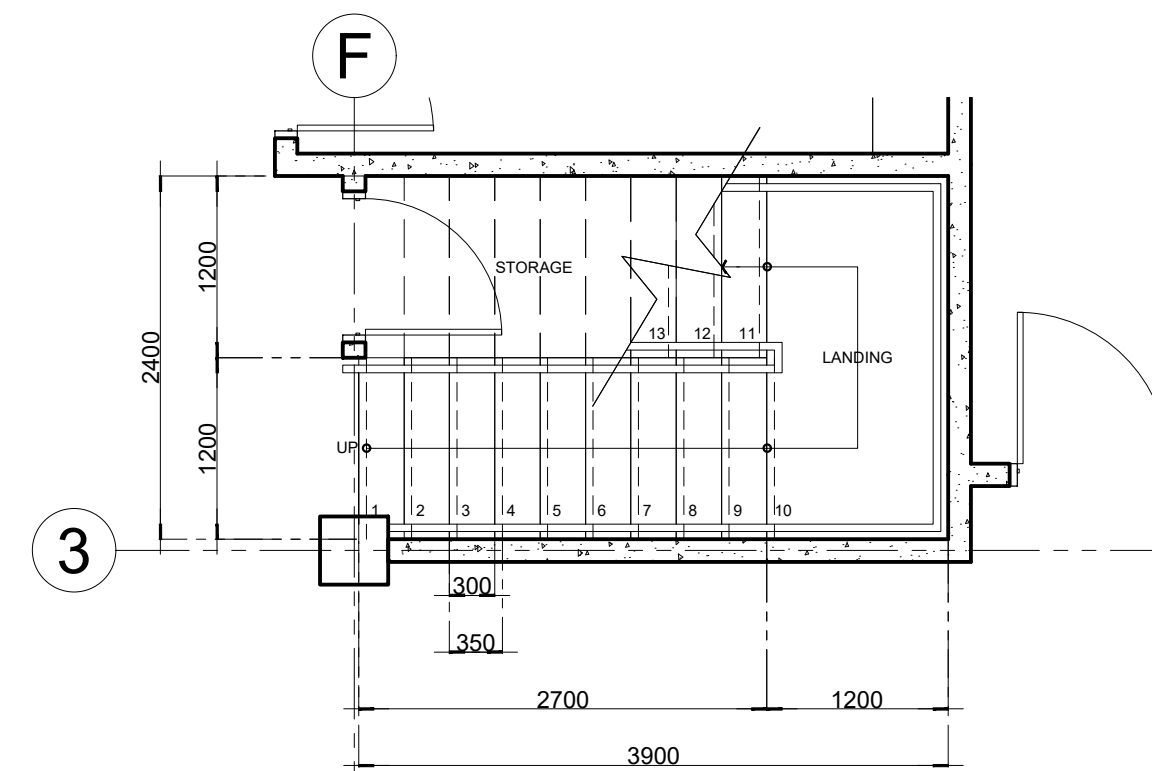
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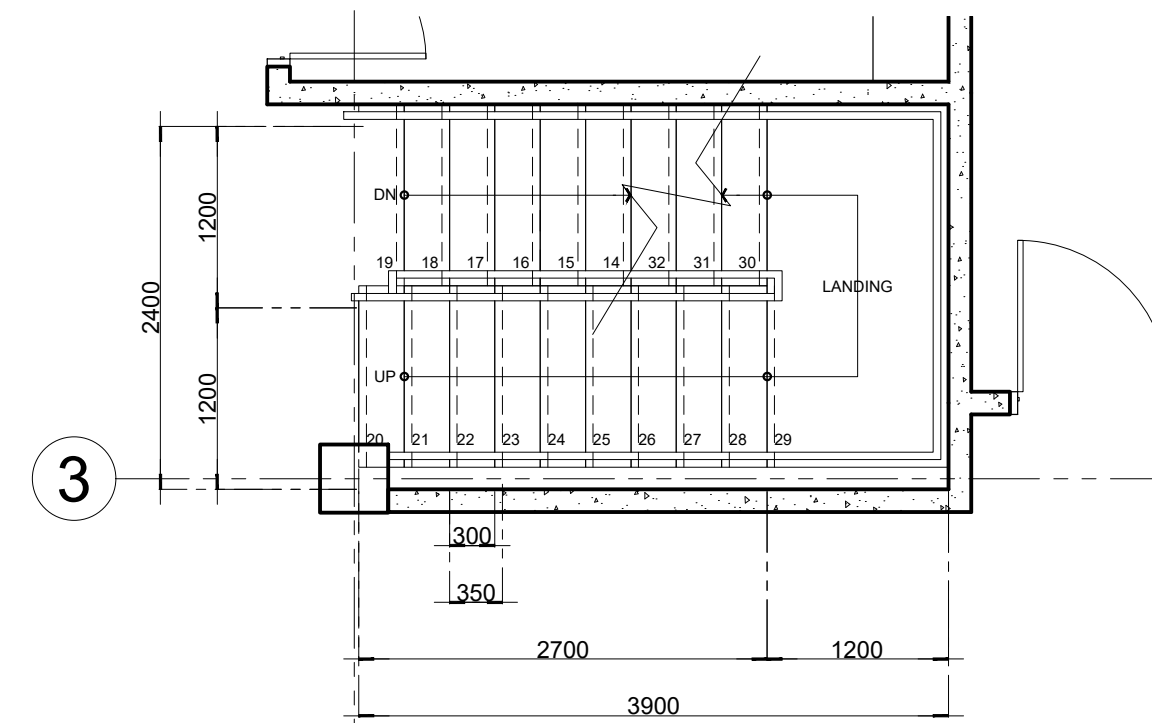
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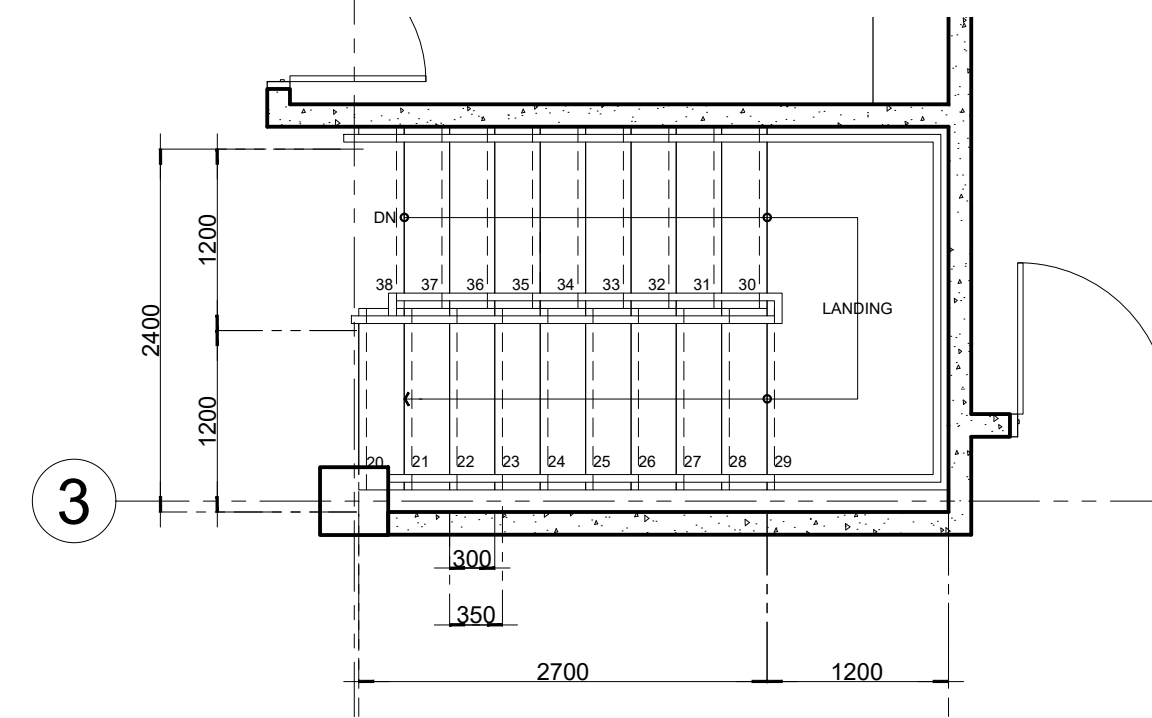
01 **ROOF PLAN**
A-04 SCALE: 1:100



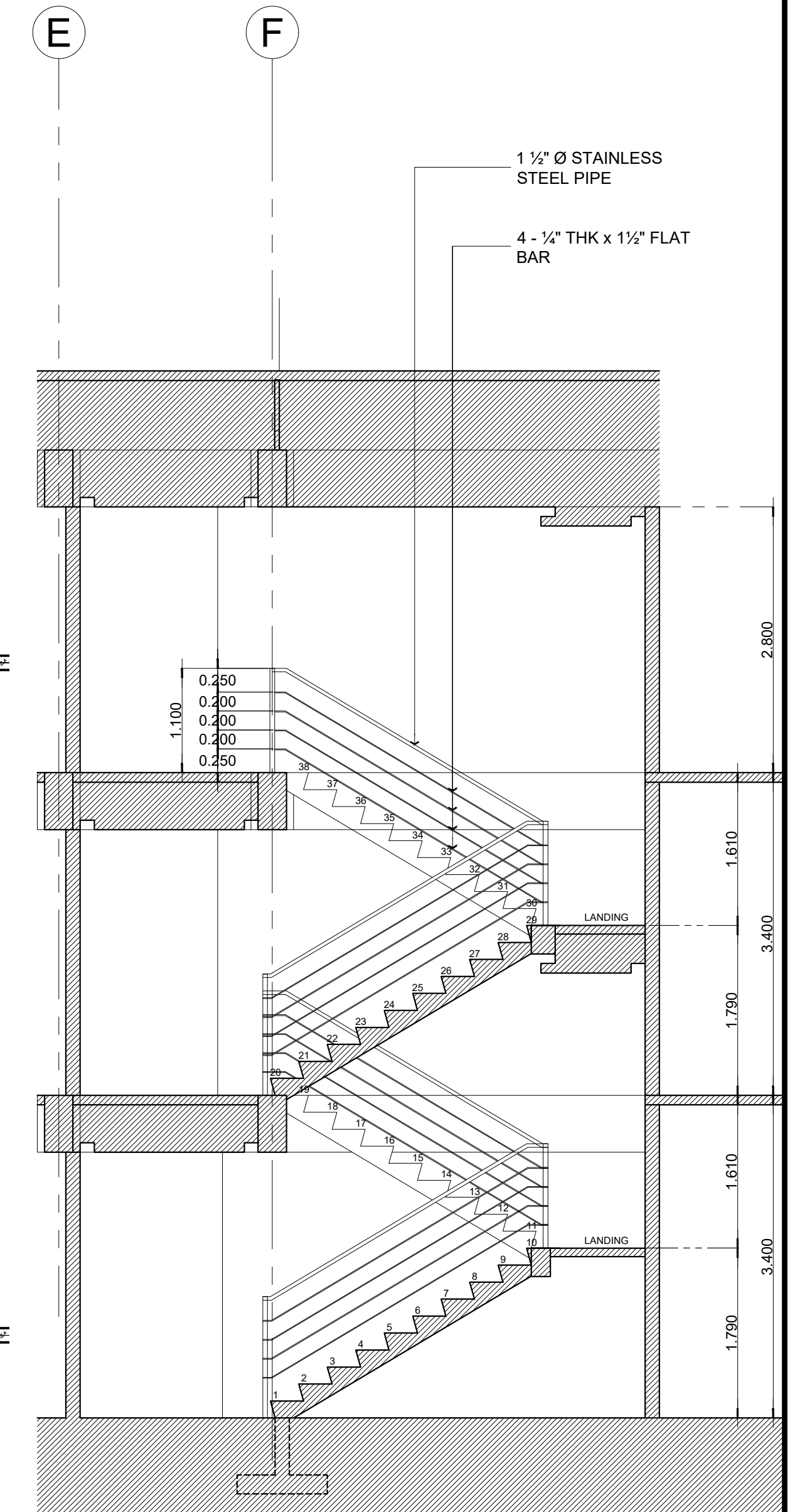
02 **STAIR PLAN "ST-2"@ G.F.**
A-04 SCALE: 1:50



03 **STAIR PLAN "ST-2"@ 2.F.**
A-04 SCALE: 1:50



04 **STAIR PLAN "ST-2"@ 3.F.**
A-04 SCALE: 1:50



05 **STAIR "ST-2" SECTION**
A-04 SCALE: 1:50

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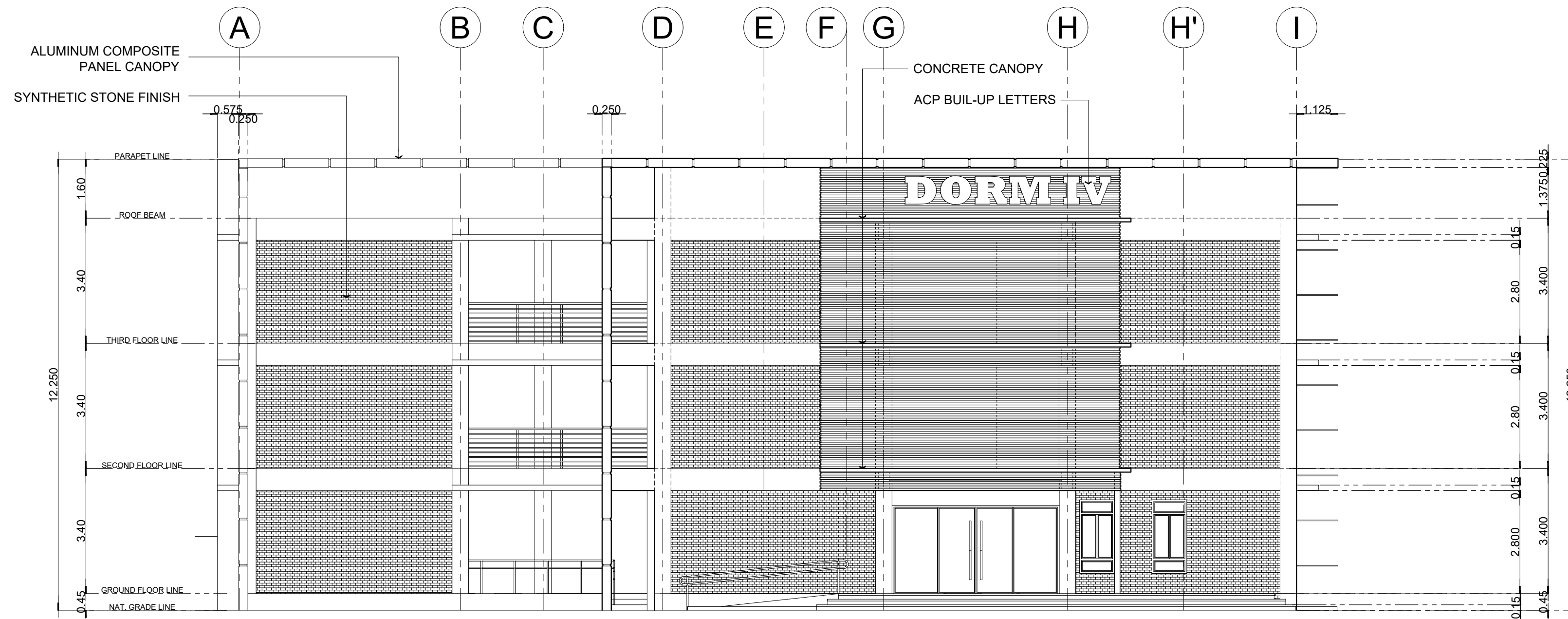
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PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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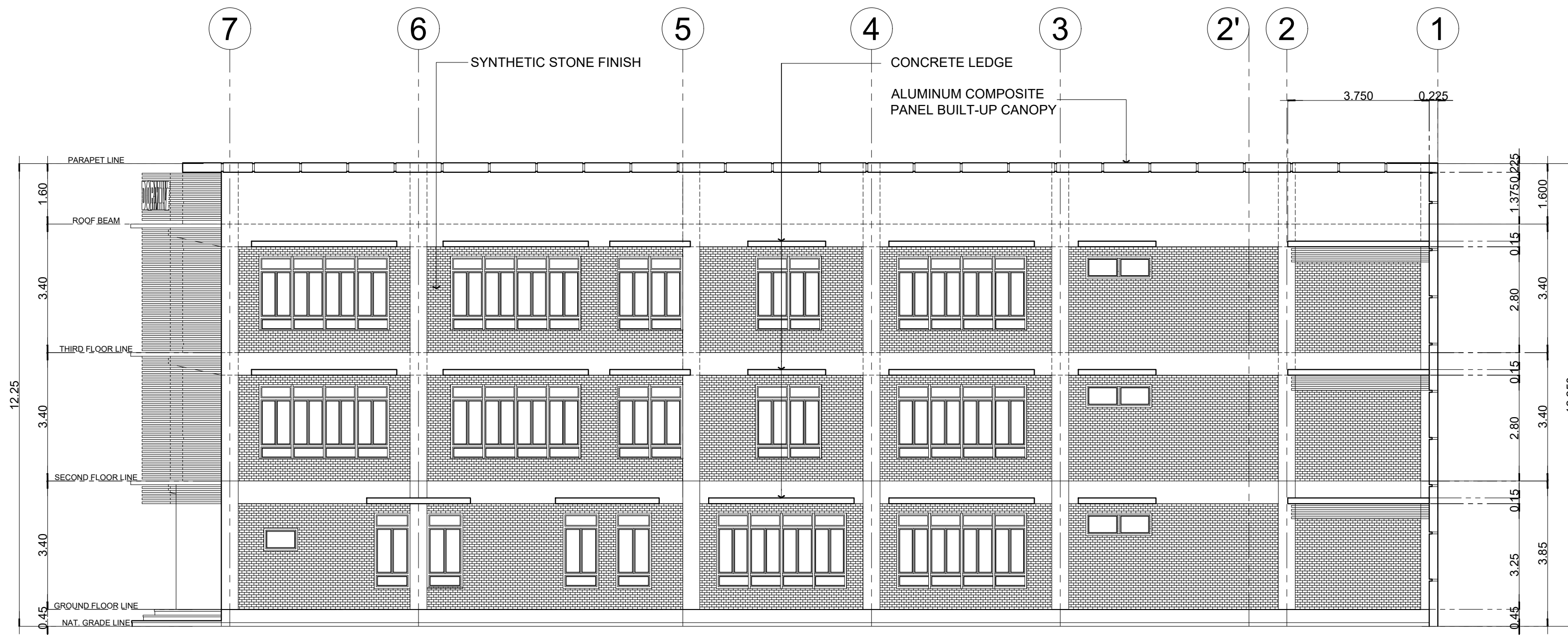
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CHECKED BY:

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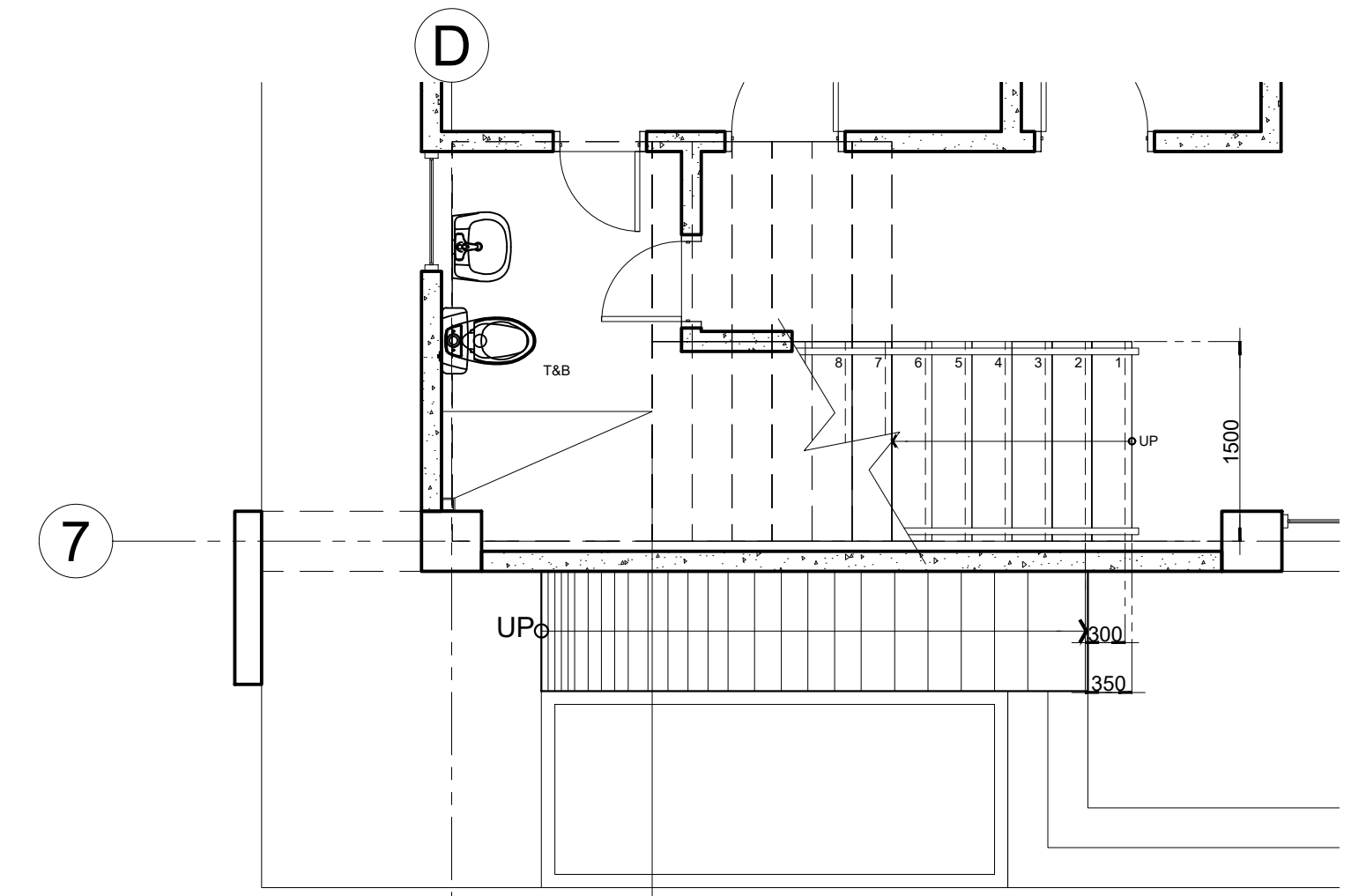
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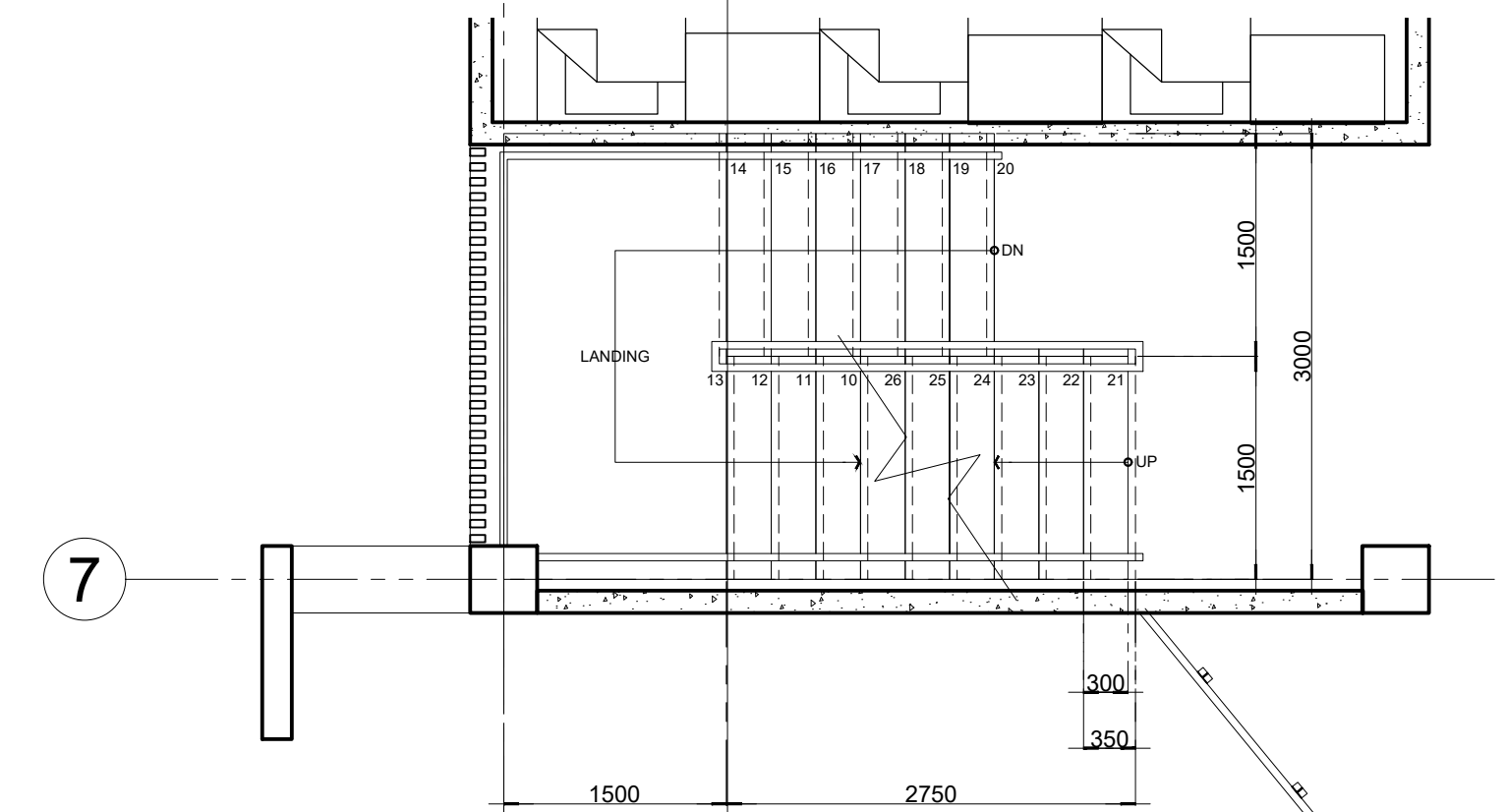
01 **FRONT ELEVATION**
A-05 SCALE: 1:100



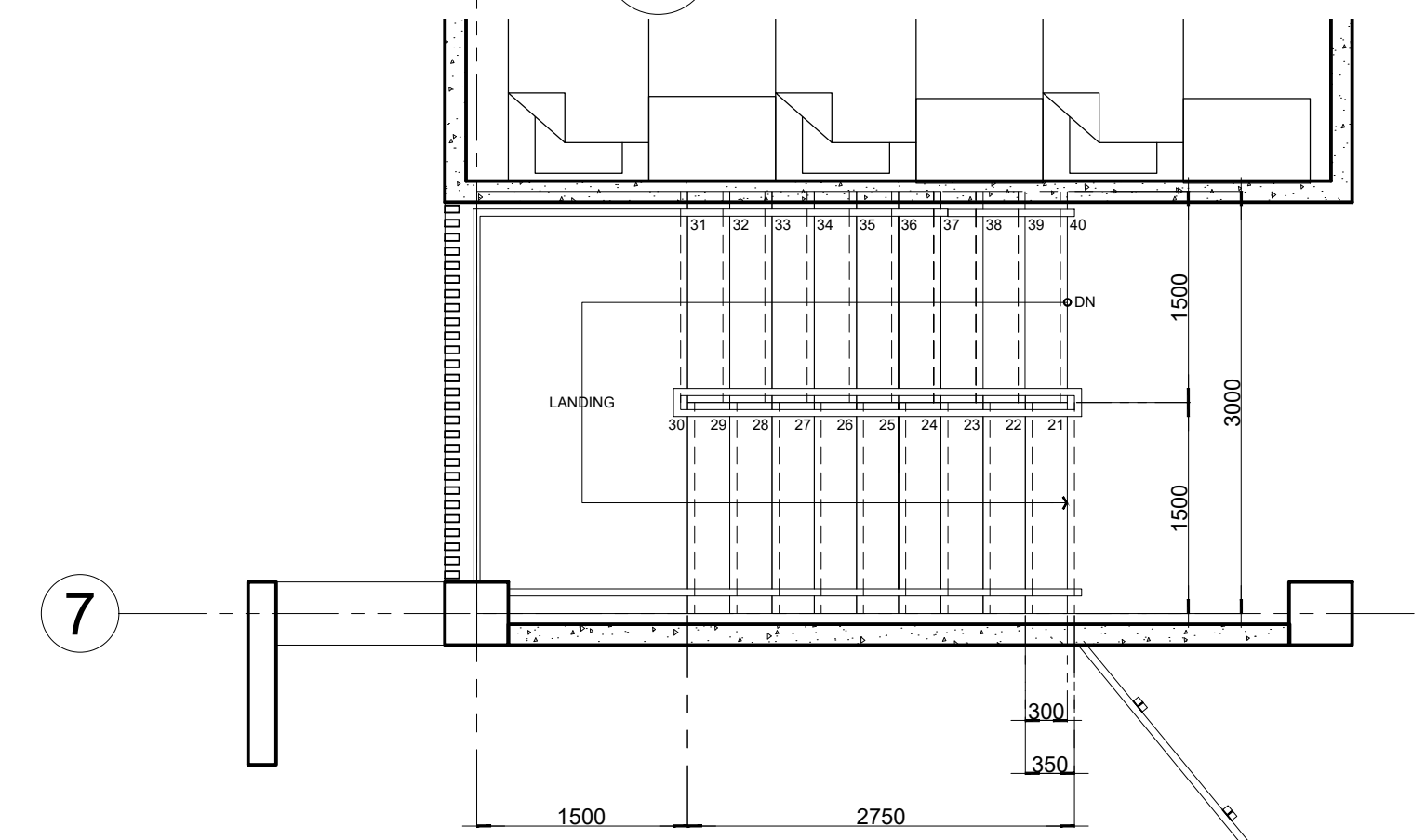
02 **RIGHT SIDE ELEVATION**
A-05 SCALE: 1:100



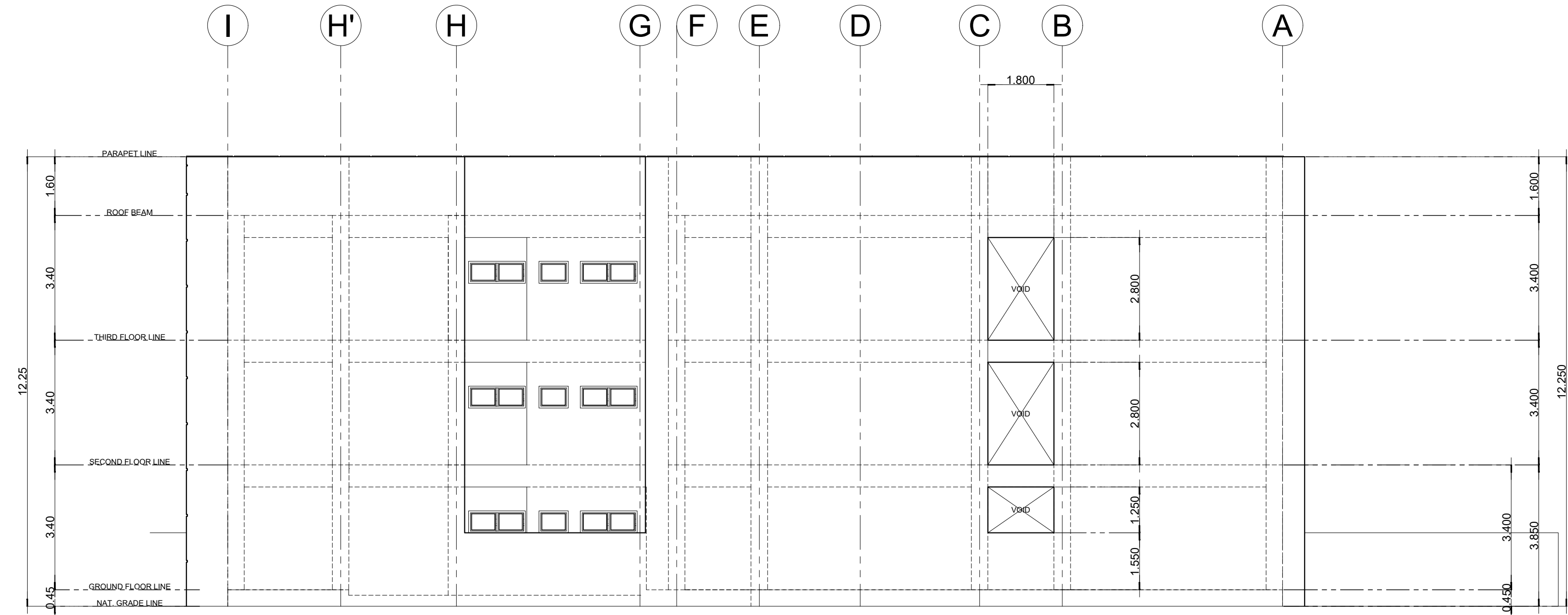
03 **STAIR PLAN "ST-1" @ G.F.**
A-05 SCALE: 1:50



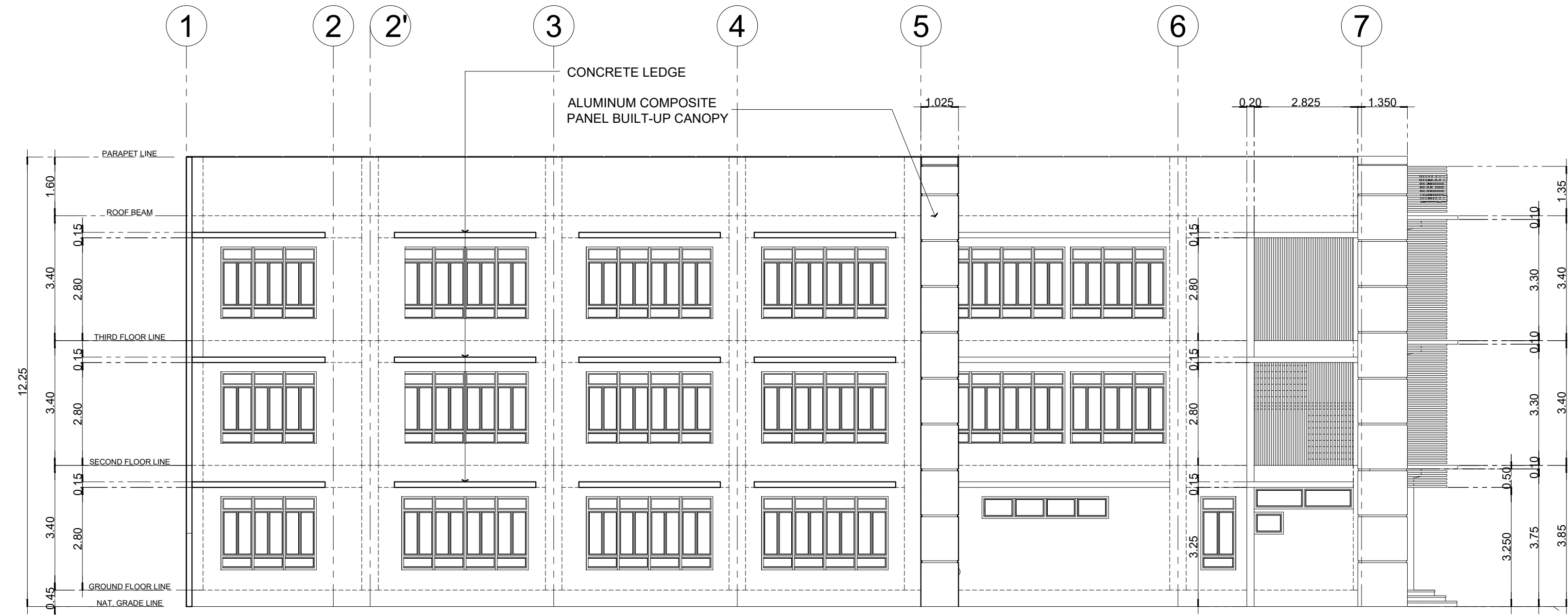
04 **STAIR PLAN "ST-1" @ 2.F.**
A-05 SCALE: 1:50



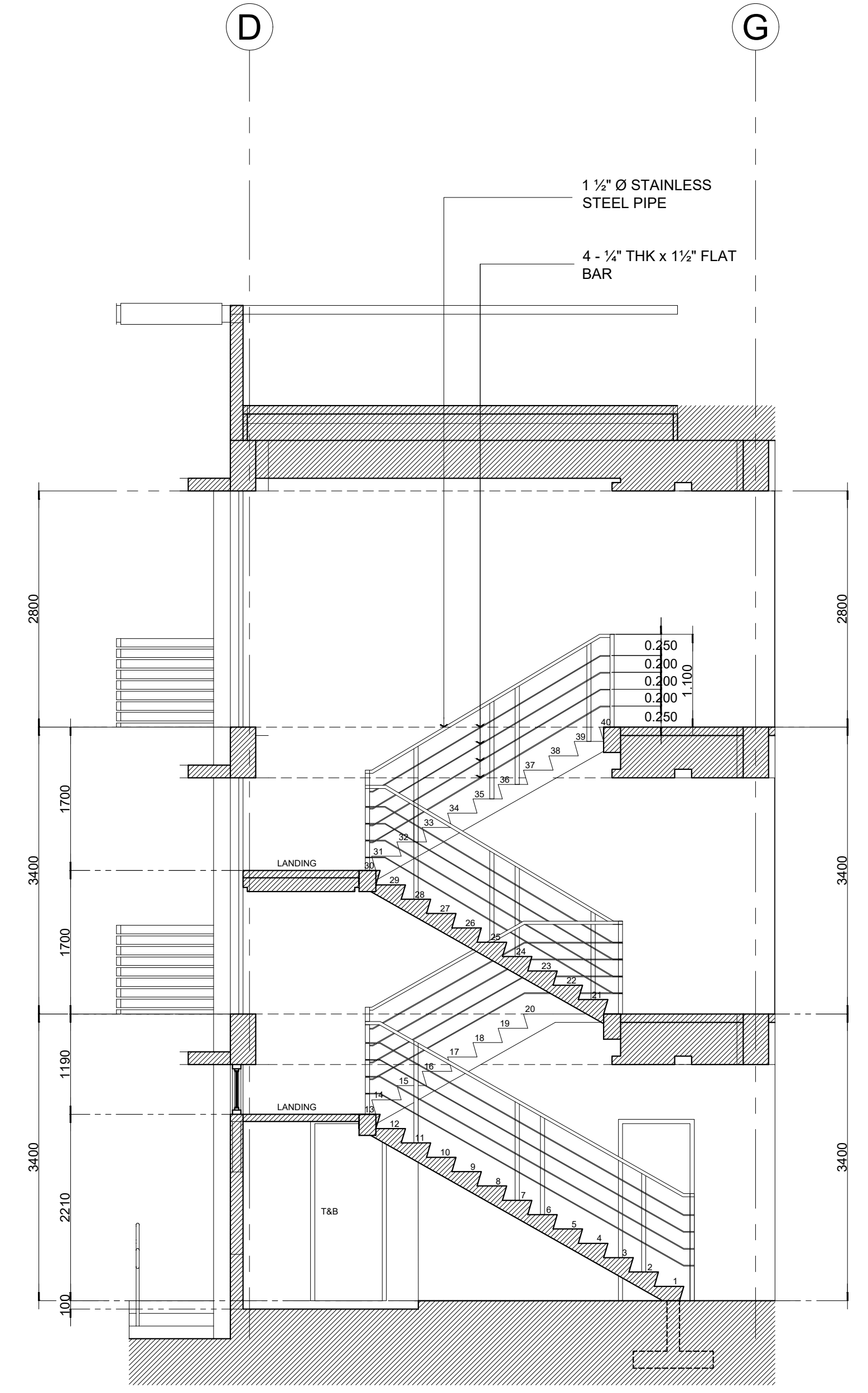
05 **STAIR PLAN "ST-1" @ 3.F.**
A-05 SCALE: 1:50



01 REAR ELEVATION
A-06 SCALE: 1:100



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



03 STAIR "ST-1" SECTION
A-06 SCALE: 1:50

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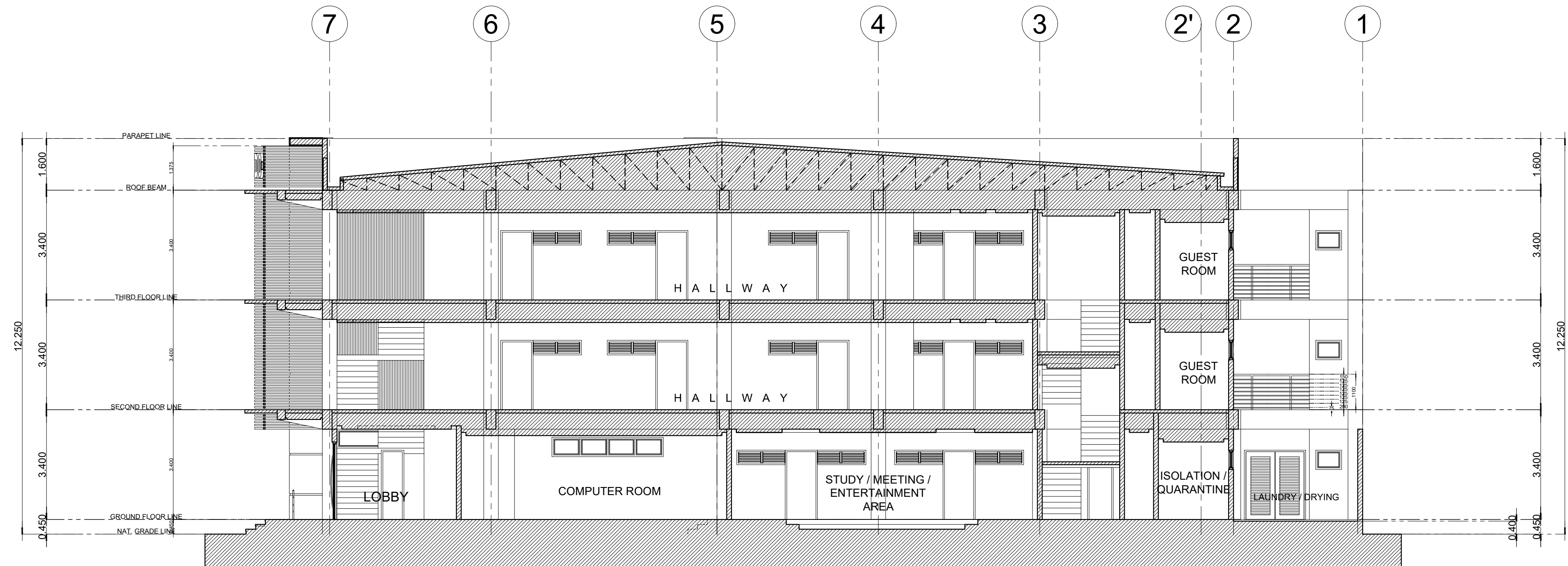
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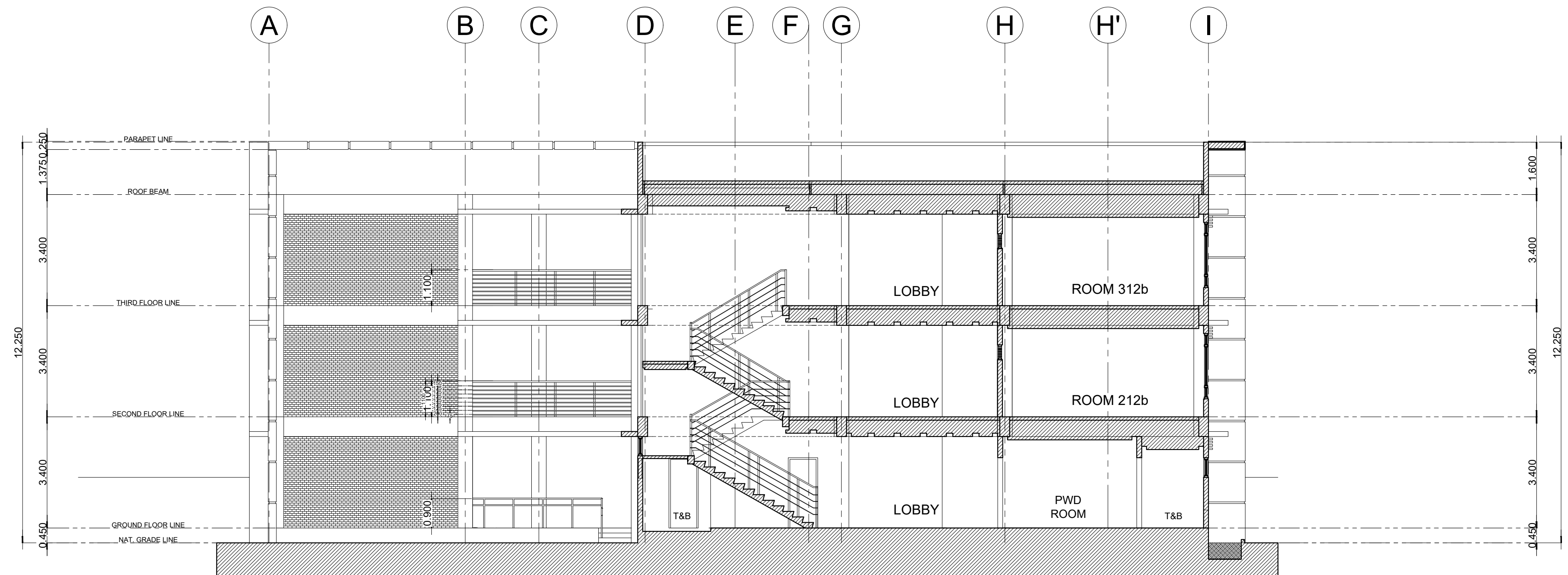
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RESIDENT ENGINEER	---

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	06 36



01 SECTION THRU' "A"
A-07 SCALE: 1:100



02 SECTION THRU' "C"
A-07 SCALE: 1:100



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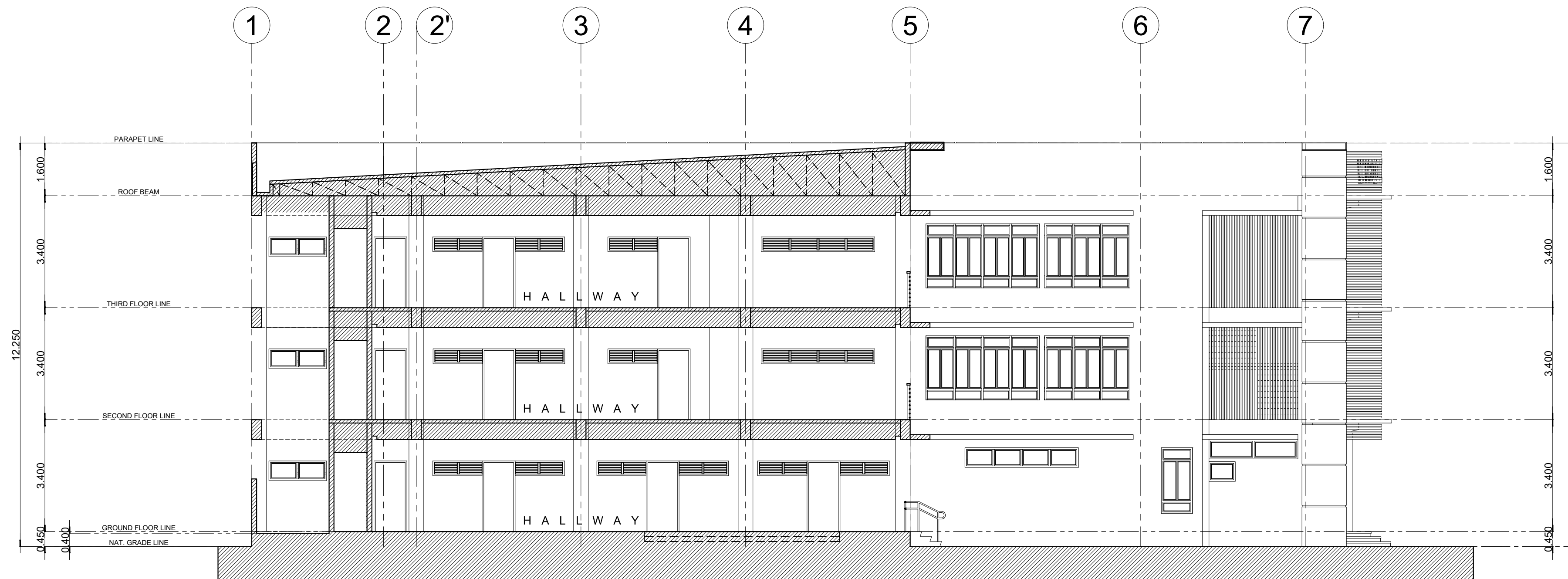
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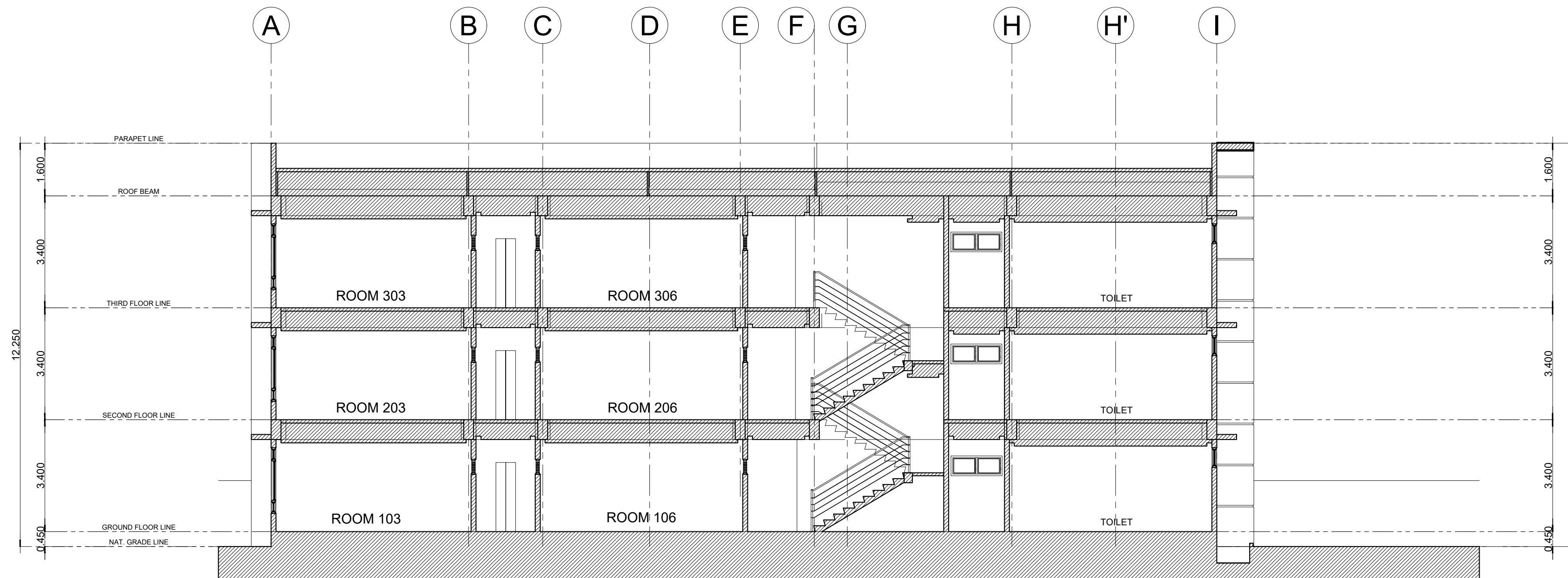
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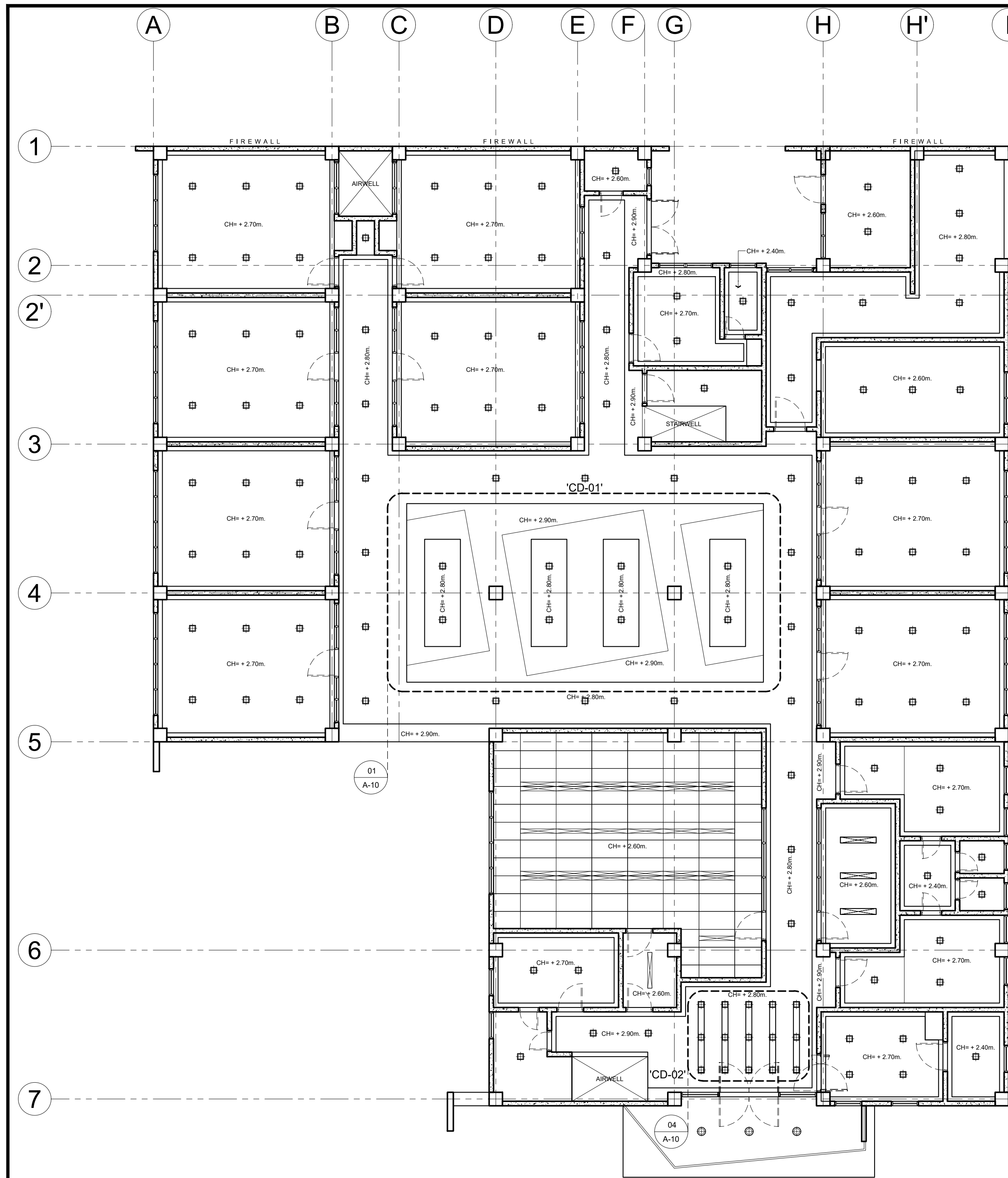
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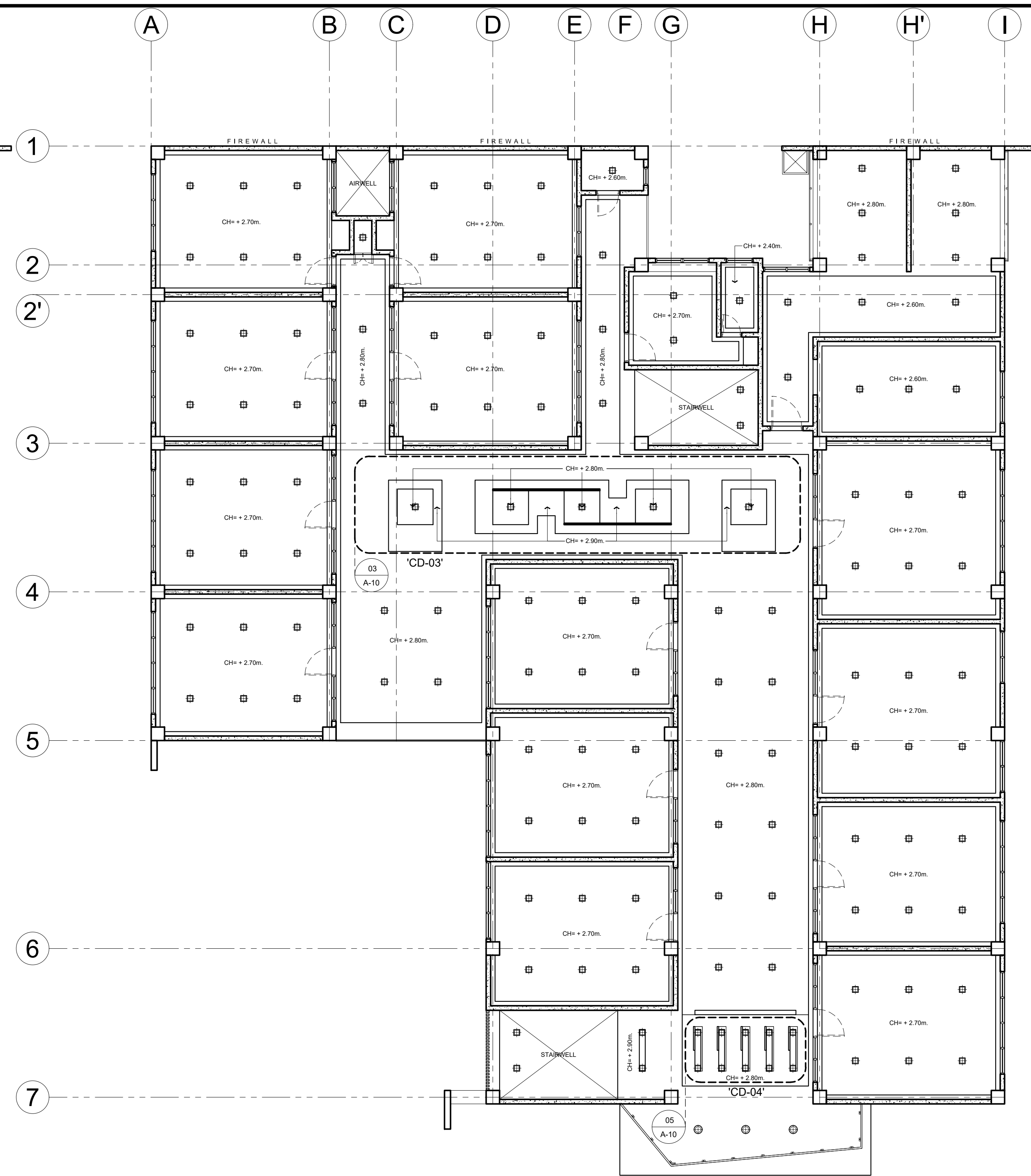
01 SECTION THRU "B"
A-08 SCALE: 1:100



02 SECTION THRU "D"
A-08 SCALE: 1:100



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



02 **TYP. 2ND & 3RD FLOOR REFLECTED CEILING PLAN**
 A-09 SCALE: 1:100

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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:

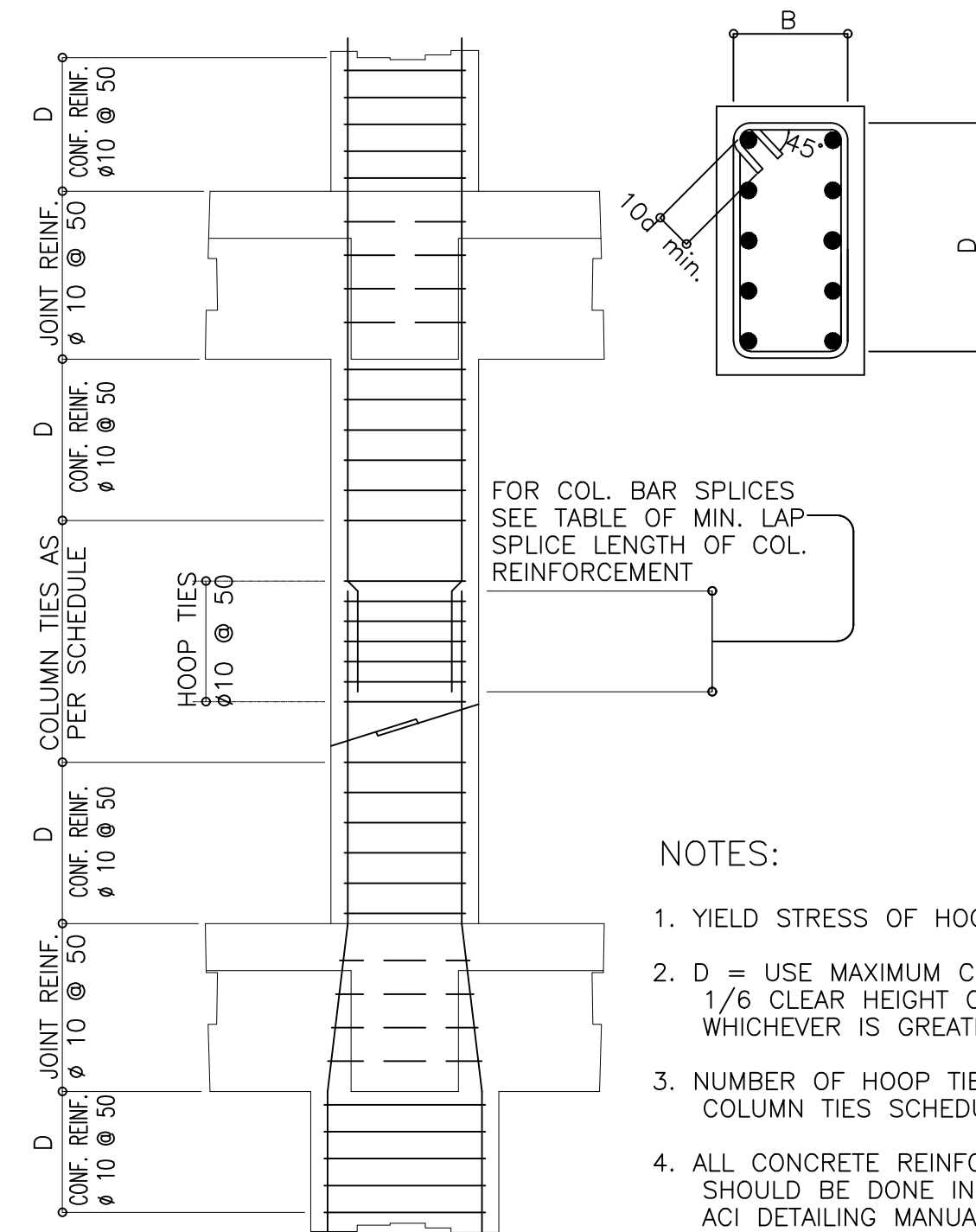
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALLS	18 HRS.
BEAMS & COLUMNS	8 DAYS

C. FOUNDATION

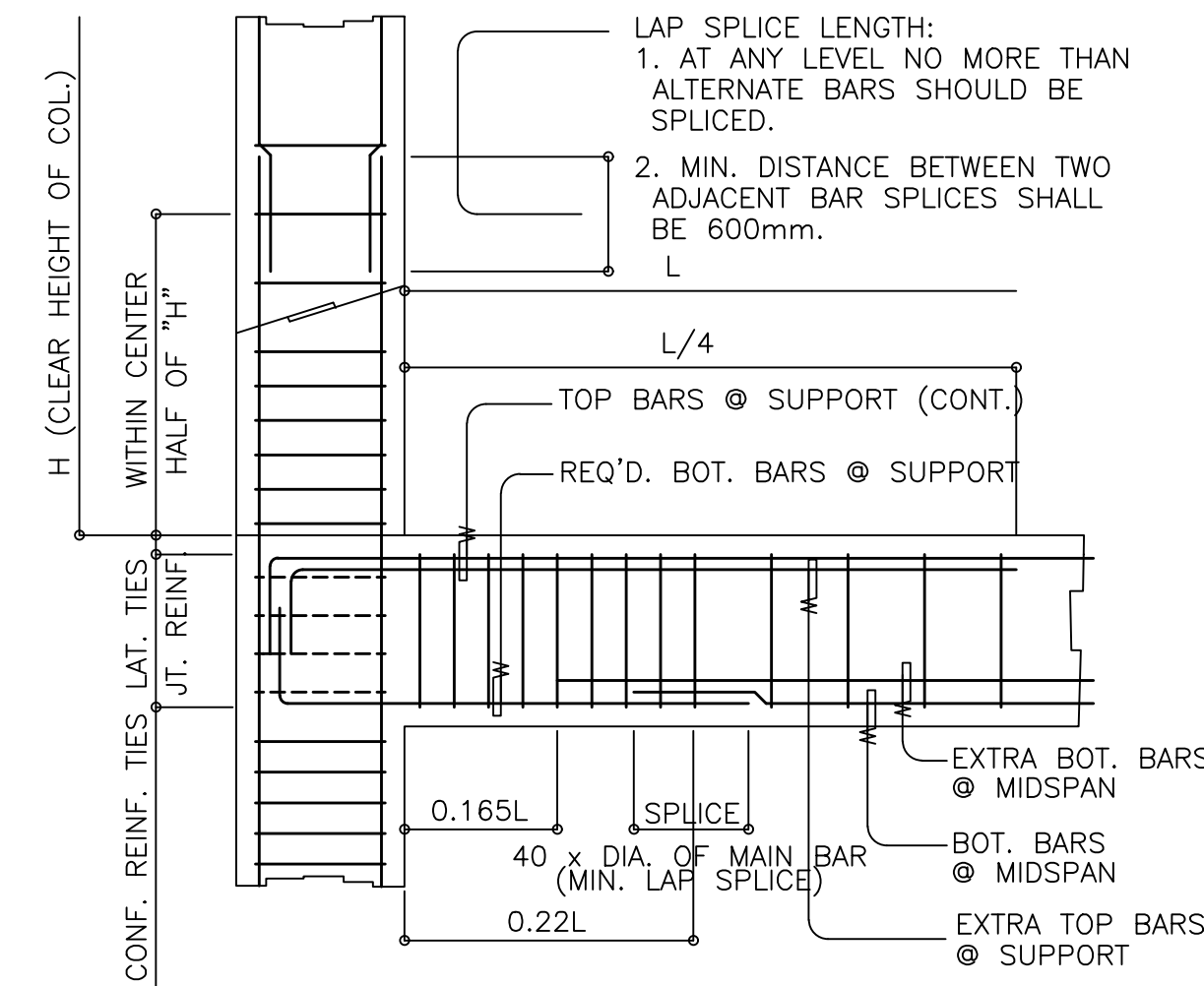
- FOUNDATION IS DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF OF 110.0 kPa. (SEE SOIL TEST RESULT)
- FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE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

D. STEEL STRUCTURES

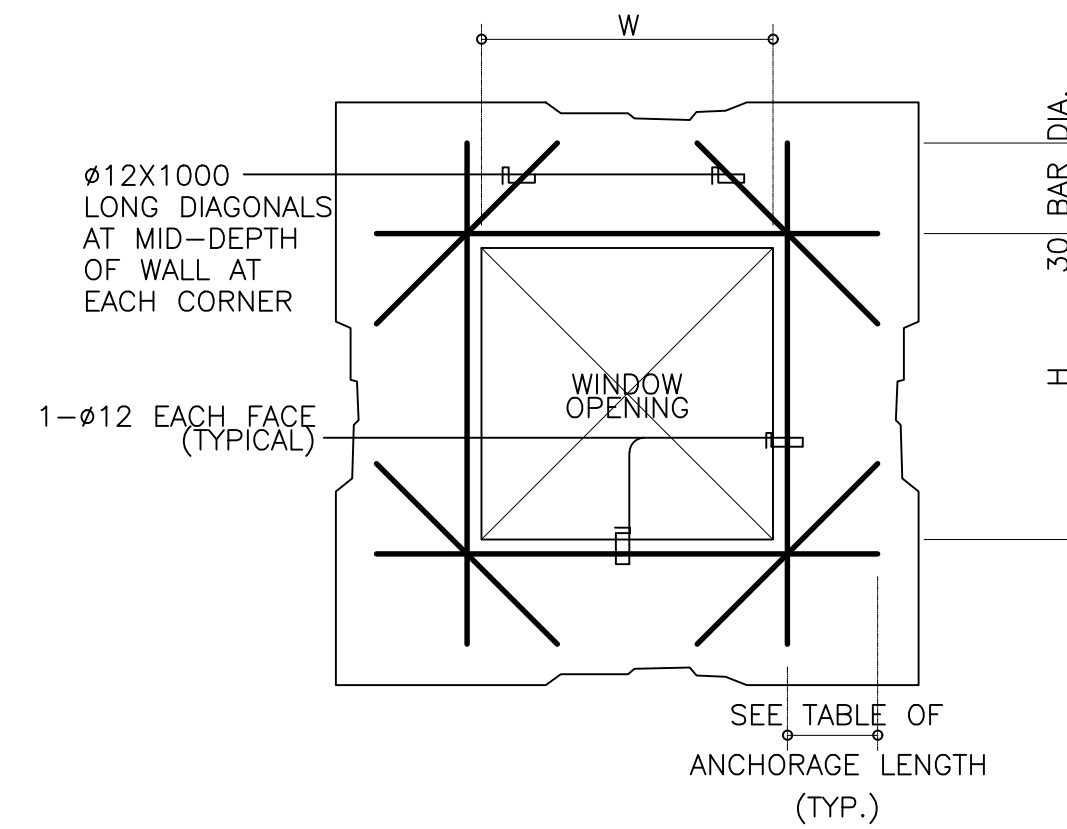
- All steel members should conform with ASTM A 36 Steel Specifications.
- Welds should be E 60 Electrodes and should conform to the Standard Code for Welding in Building Construction. All welds shall develop at least 100% of the structural steel member strength.
- In actual fabrication of steel trusses, 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.



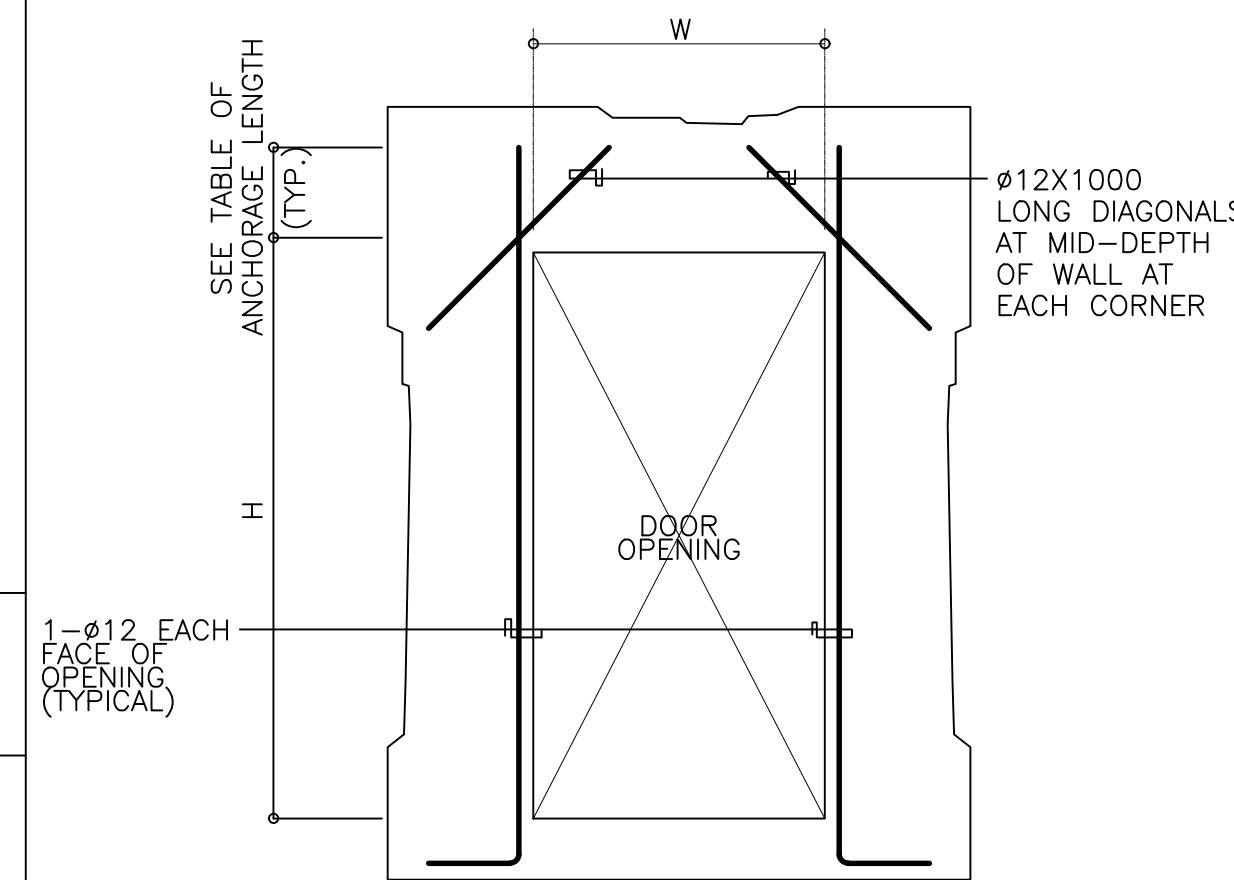
01 COLUMN ELEV. SHOWING DOWELS AND TIES SPACING DETAIL



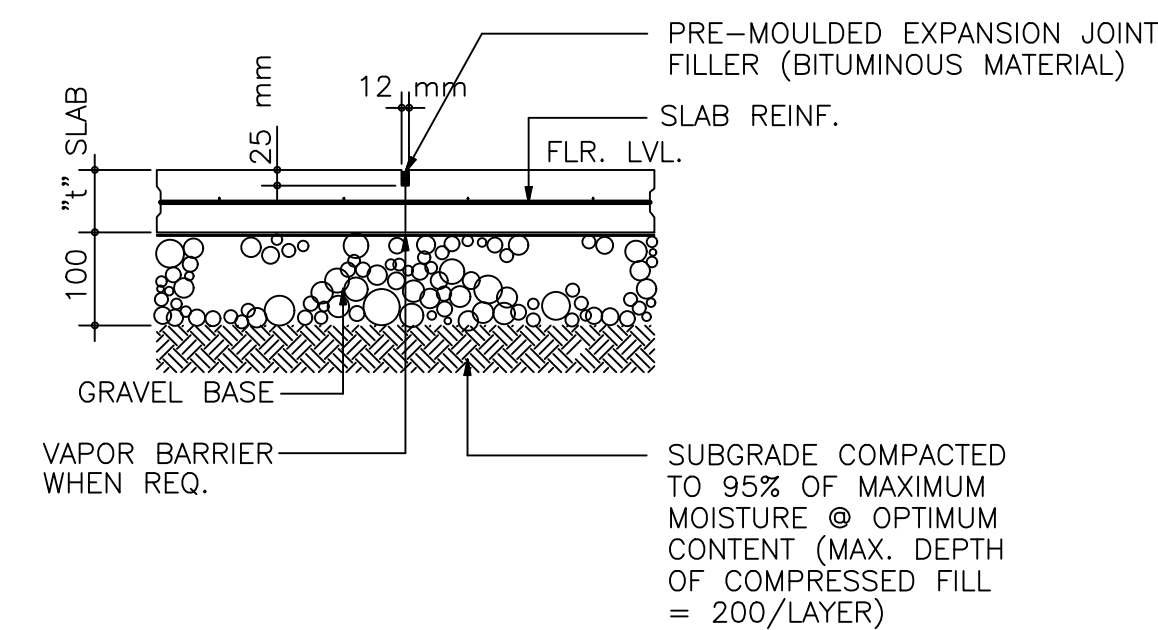
02 COLUMN LAP SPlice AND EXT. GIRDER TO COLUMN CONNECTION DETAIL



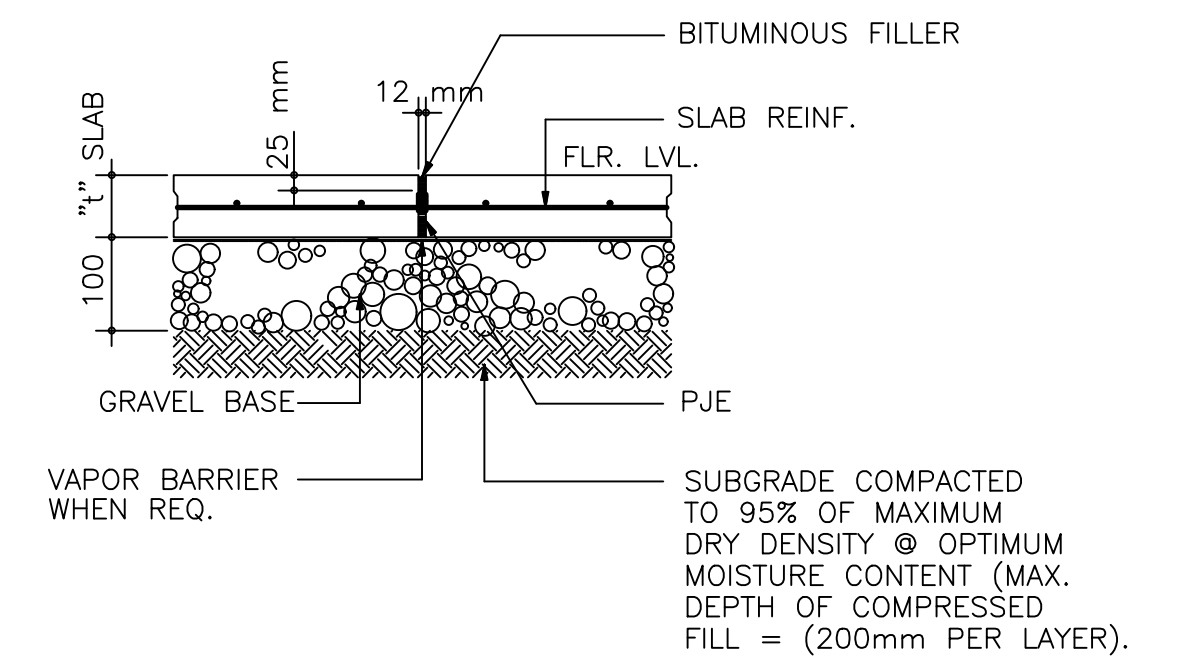
03 WINDOW OPENING DETAIL



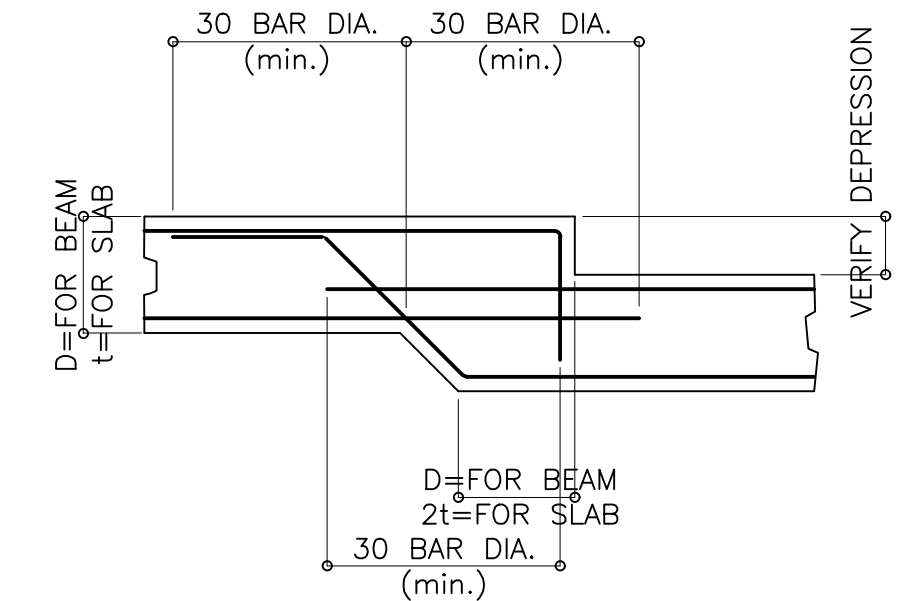
04 DOOR OPENING DETAIL



05 SLAB-ON-GRADE EXPANSION JOINT DETAIL

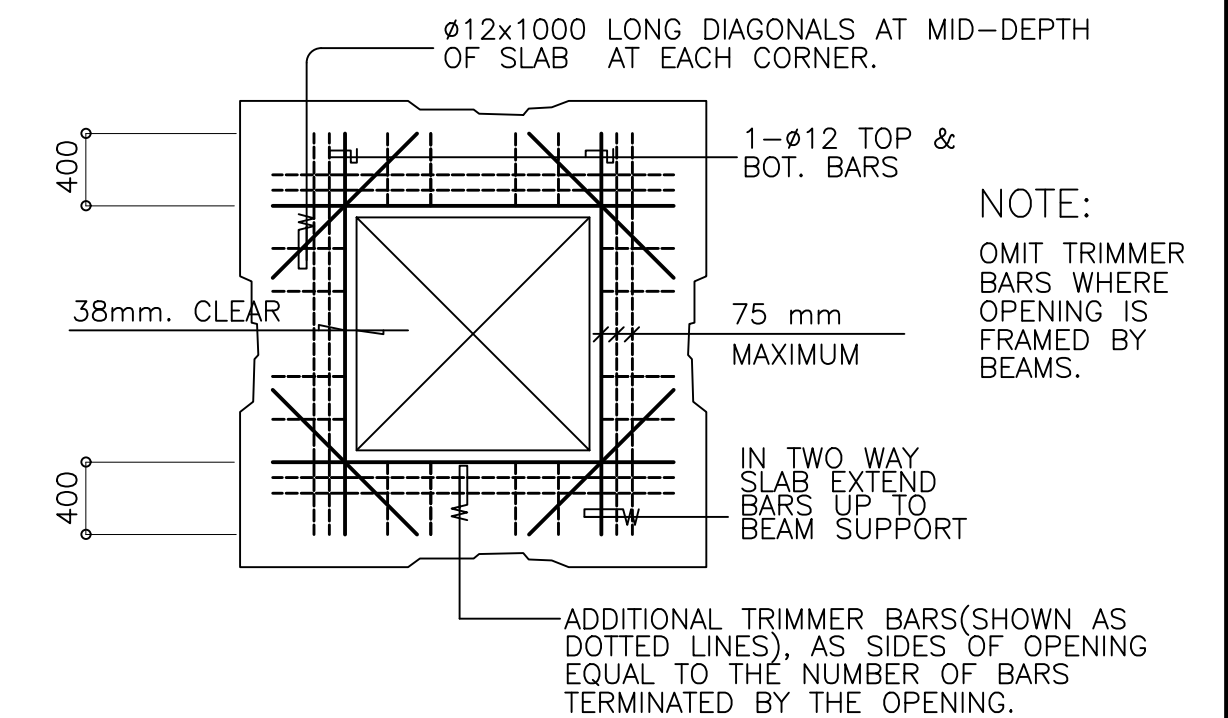


06 SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL



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



MICHAEL T. ANG, *Michael T. Ang*
ARCHITECT

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IAPOA: 04440 141342 071615
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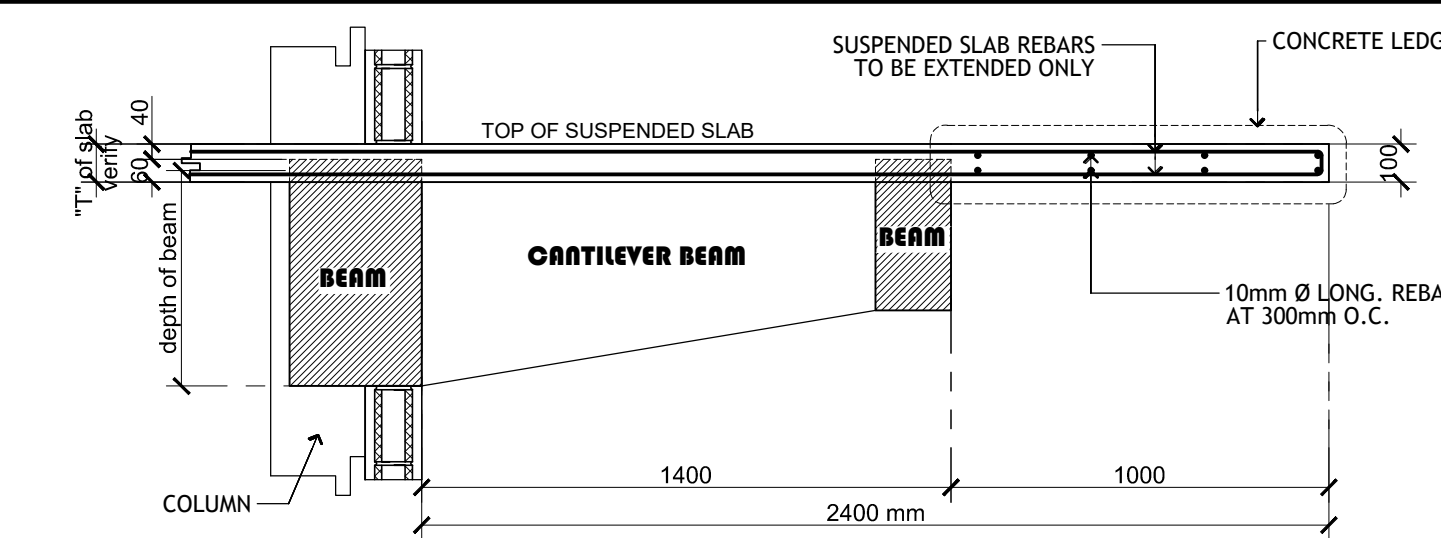
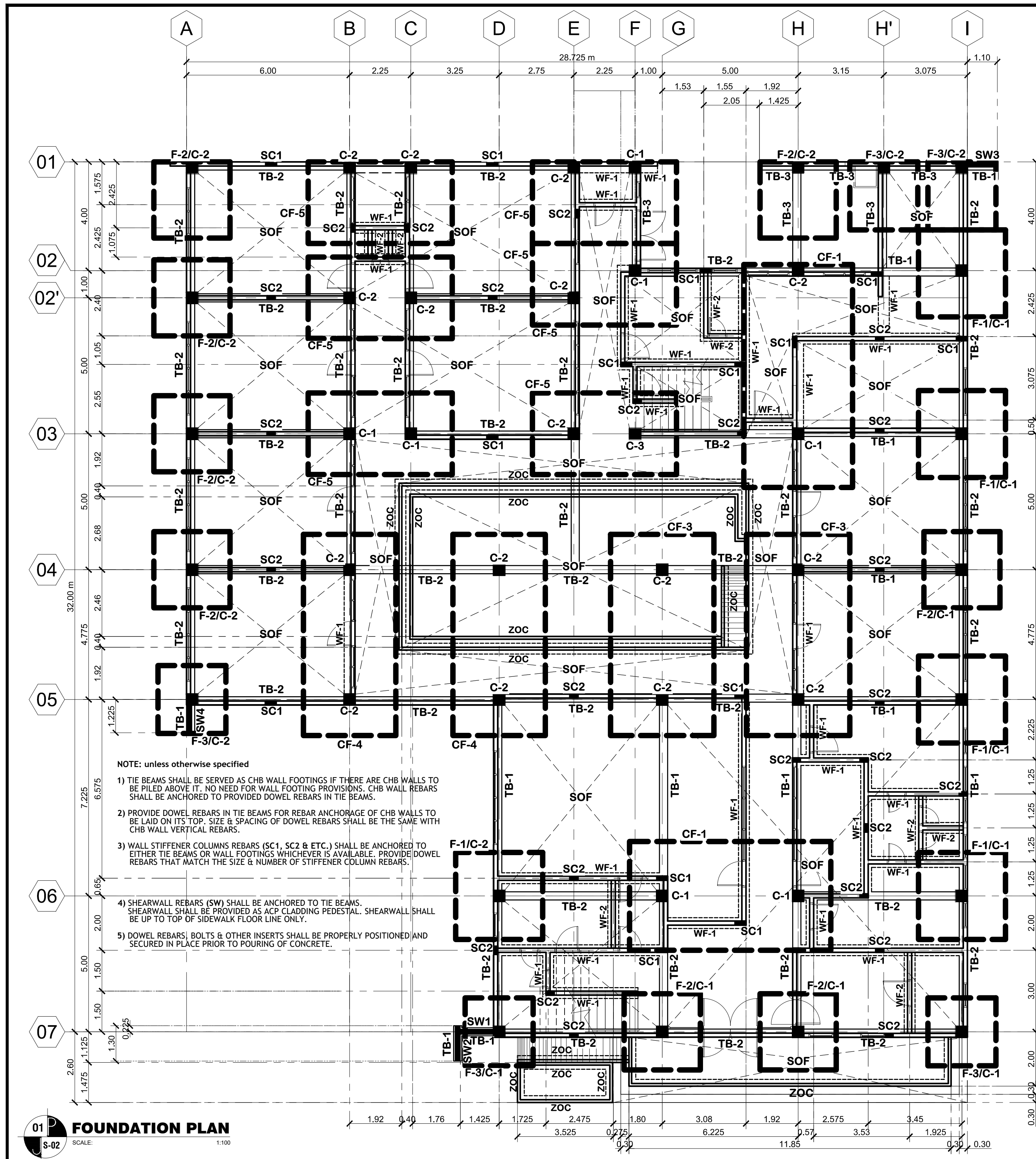
JAMES P. PACIS, PICE, ASEP
CIVIL/STRUCTURAL ENGINEER
P.R.C. NO. : 52853 ASEP-SIE NO. : 52853-111
P.T.R. NO. : 7805170 ISSUED DATE : 01-04-18
ISSUED AT: G.S.C. T.I.N. : 102-900-986

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

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

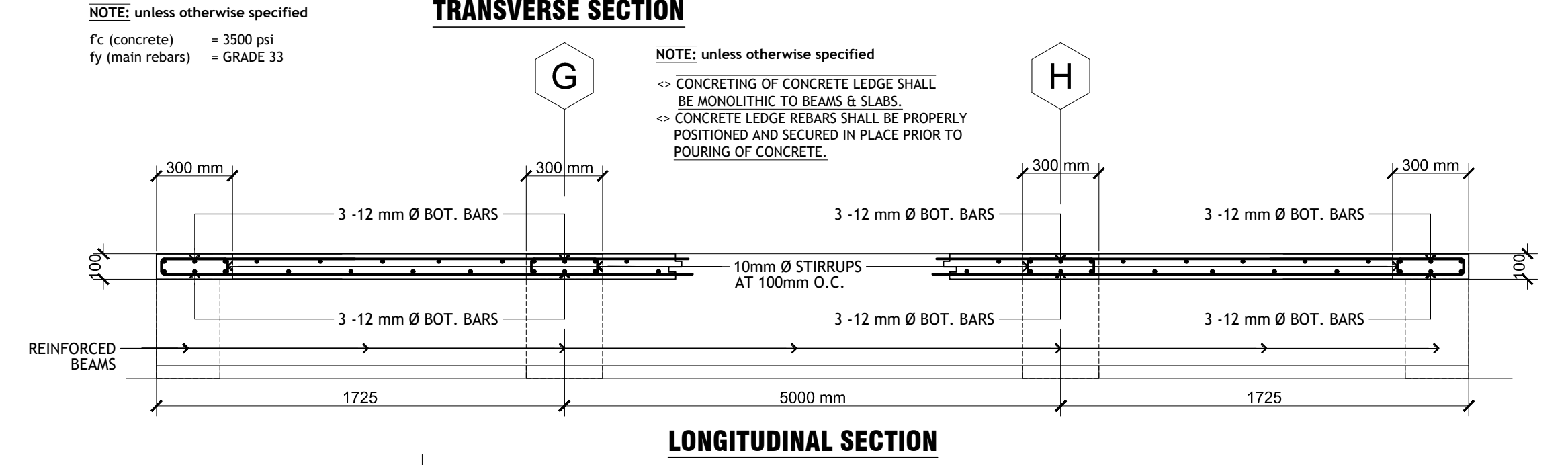
PREPARED BY:
J.P. PACIS ENGINEERING SERVICES
STRUCTURAL CONSULTANT
CHECKED BY: ---
RESIDENT ENGINEER

SHEET NO.
S-01
12 36



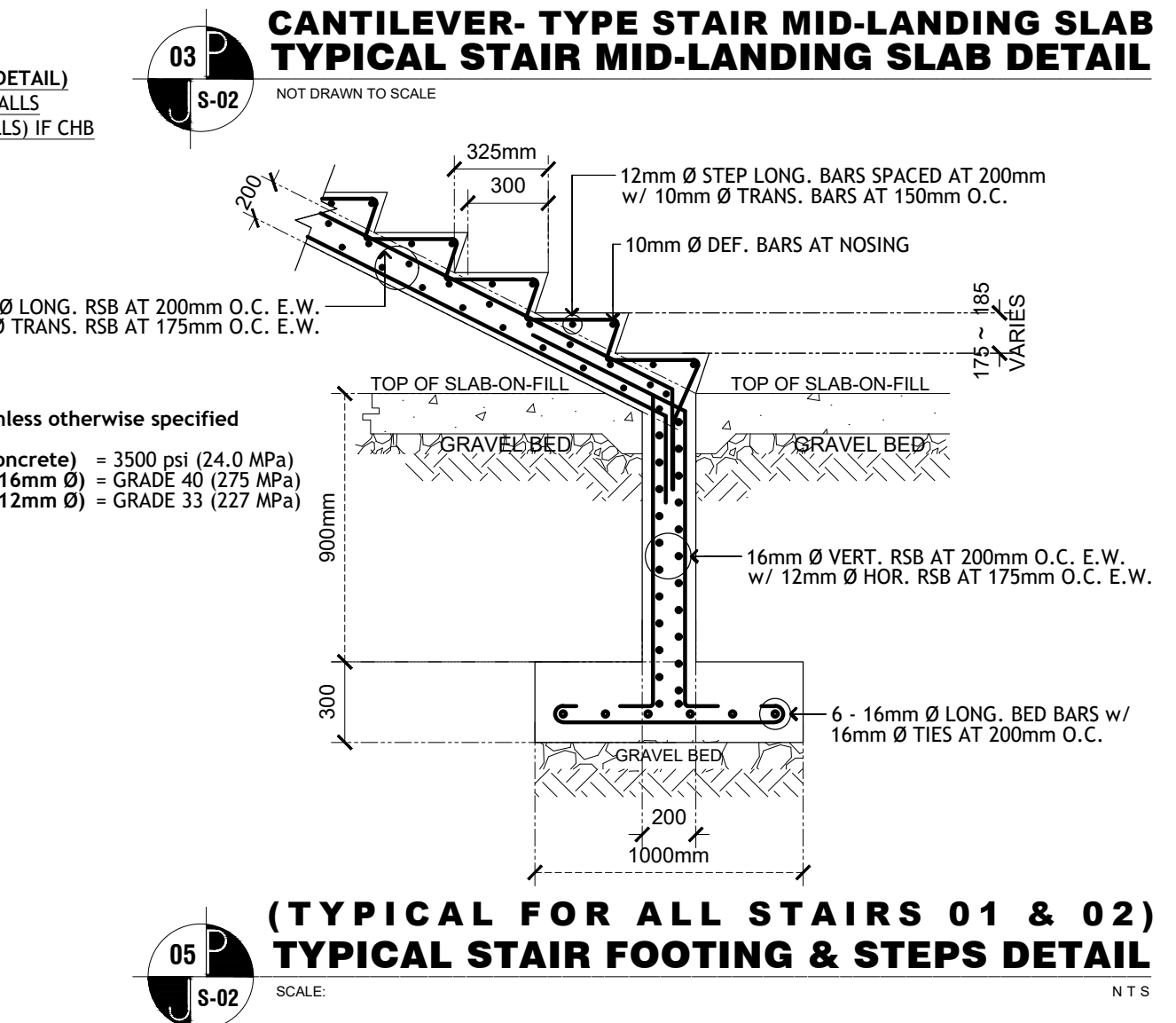
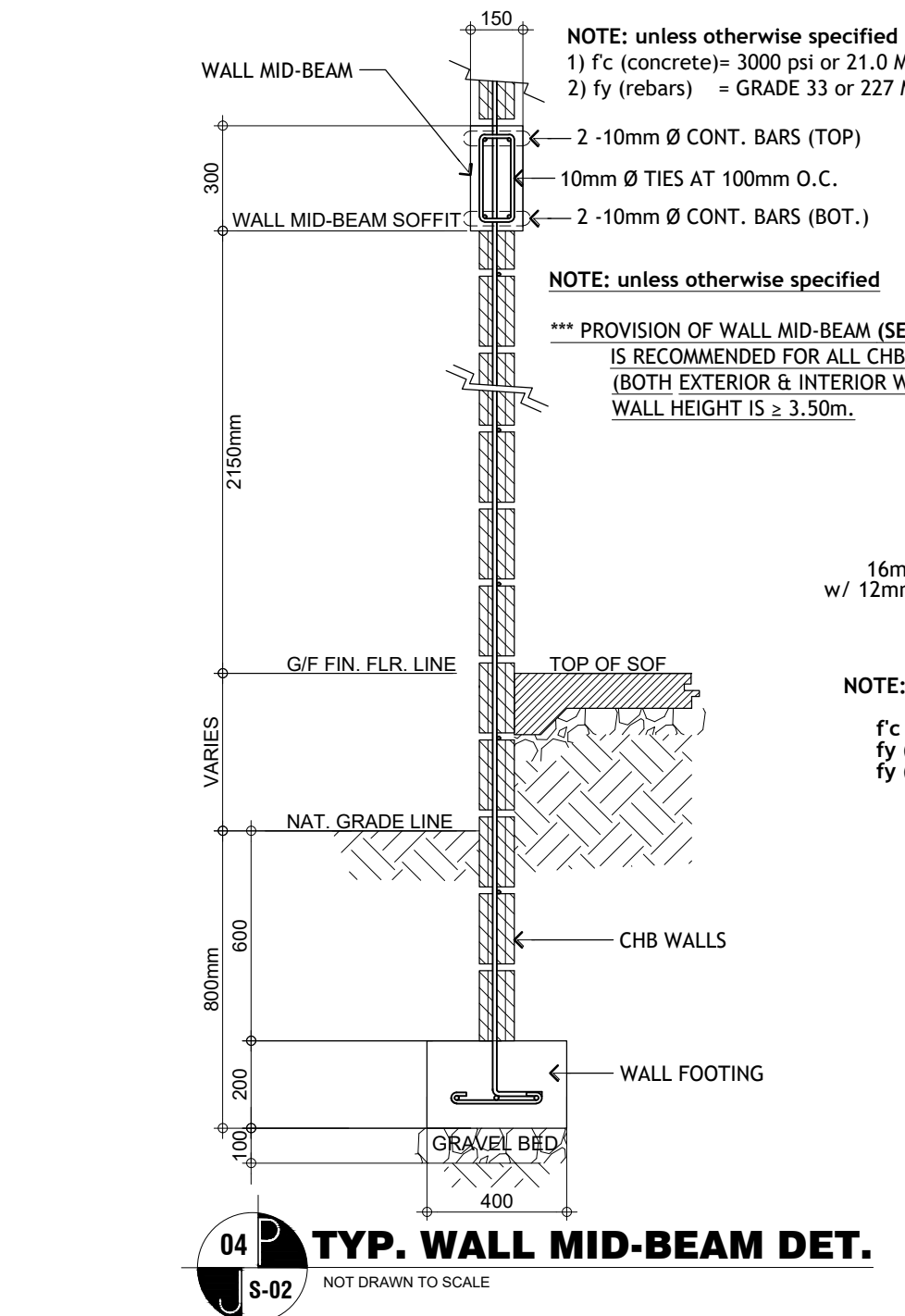
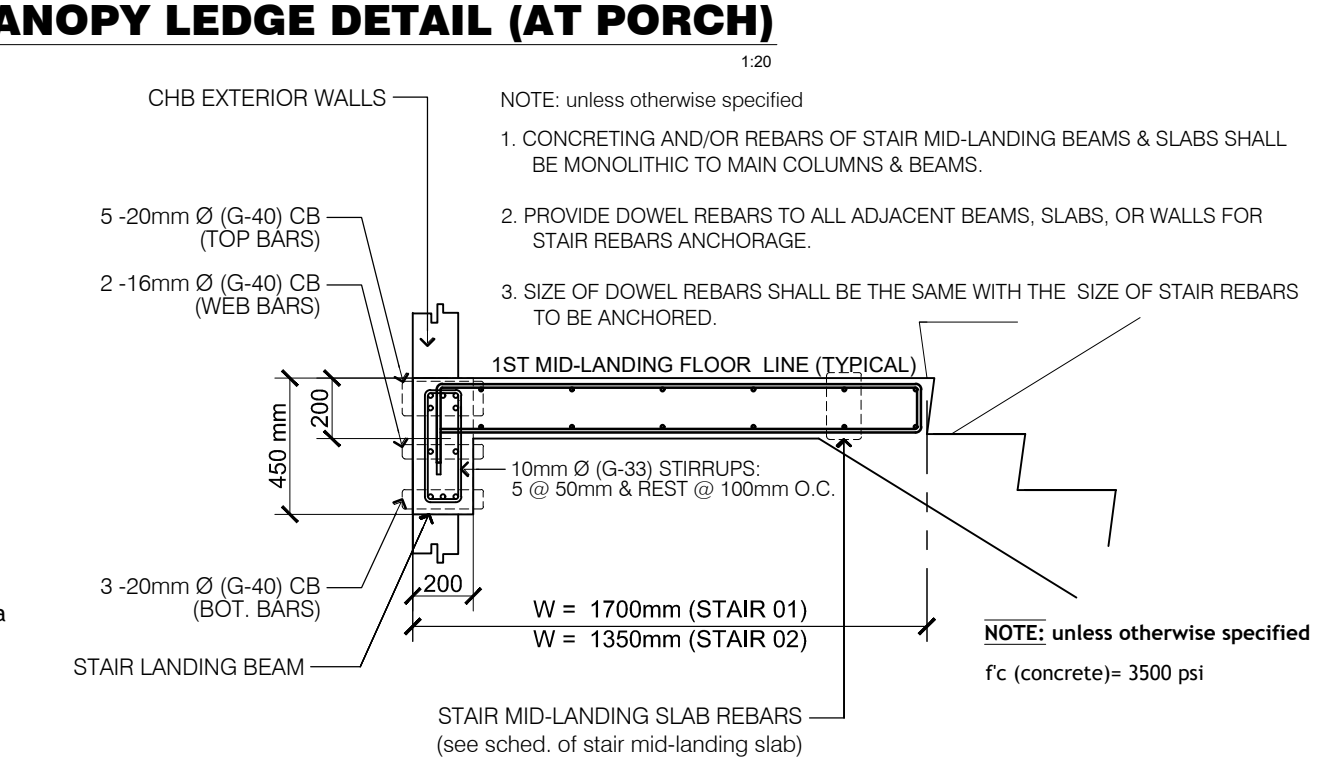
SCHEDULE OF SHEARWALLS					
MARK	DIMENSIONS		MAIN REINFORCEMENTS		REMARKS
	T (mm)	L (mm)	VERTICAL	HORIZONTAL	
SW1	200	1400	12mm Ø AT 200mm O.C. EACHWAY	10mm Ø AT 250mm O.C. EACHWAY	* SHEARWALL SHALL BE:
SW2	200	1300	12mm Ø AT 200mm O.C. EACHWAY	10mm Ø AT 250mm O.C. EACHWAY	1) UP TO TOP OF SIDEWALK FIN. FLOOR LINE ONLY.
SW3	200	1100	12mm Ø AT 250mm O.C. EACHWAY	10mm Ø AT 300mm O.C. EACHWAY	2) MONOLITHIC TO MAIN COL. & TIE BEAM IN TERMS OF REBARS & CONCRETING.
SW4	200	1000	12mm Ø AT 250mm O.C. EACHWAY	10mm Ø AT 300mm O.C. EACHWAY	3) ANCHORED TO TIE BEAM AS ITS FOOTING. 4) SERVED AS PEDESTAL FOR ACP CLADDING FRAMES.

NOTE: unless otherwise specified
 f_c (concrete) = 3500 psi (24.0 MPa)
 f_y (rebars) = GRADE 33 (227 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)
 f_y (rebars) = GRADE 33 (227 MPa)



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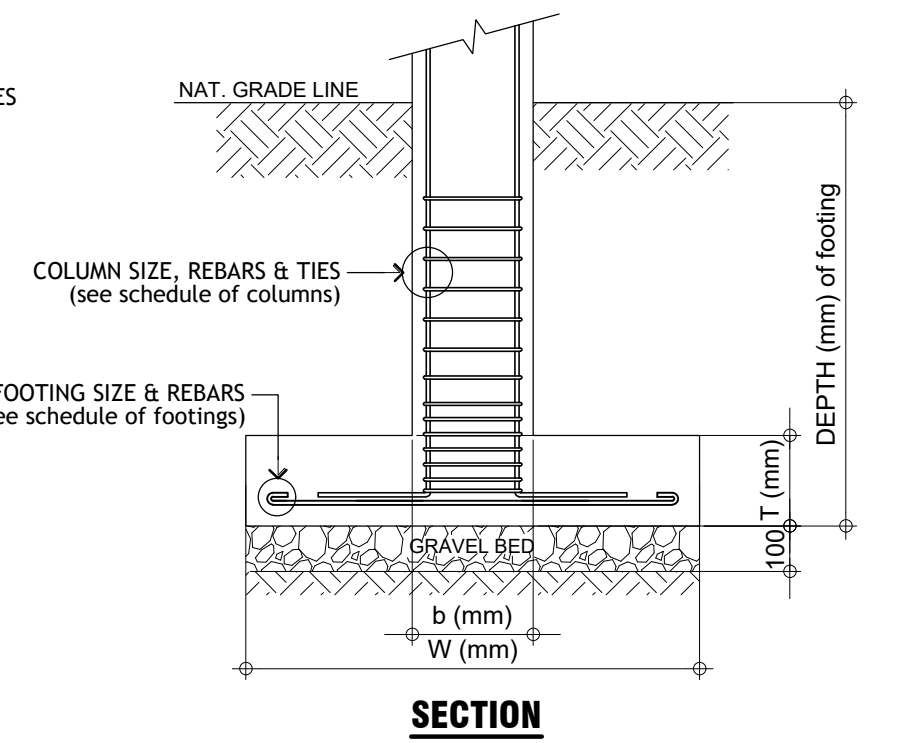
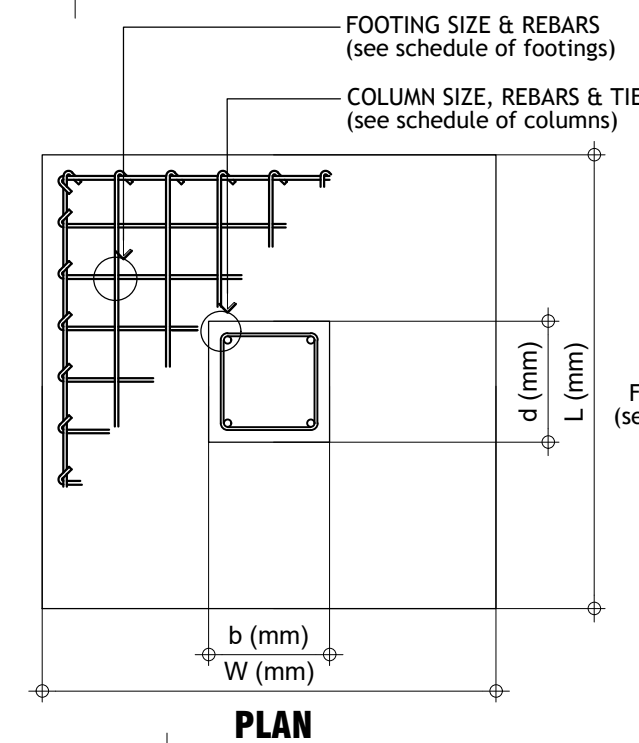
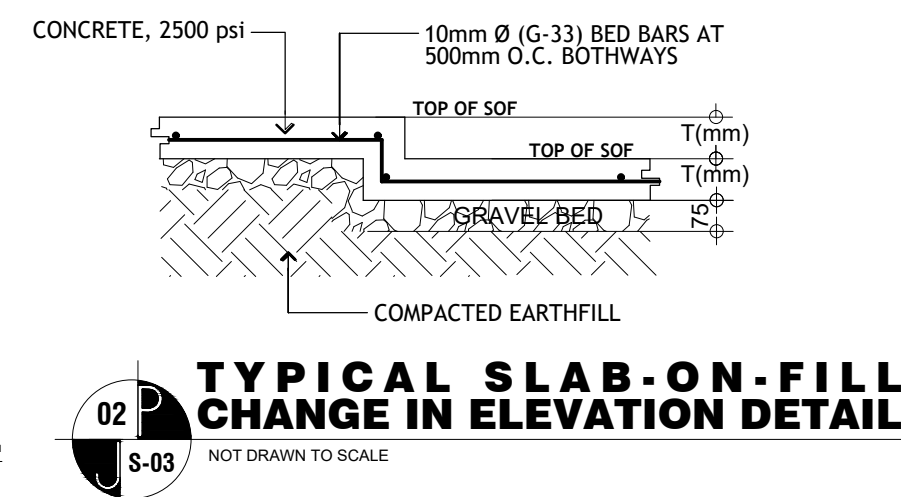
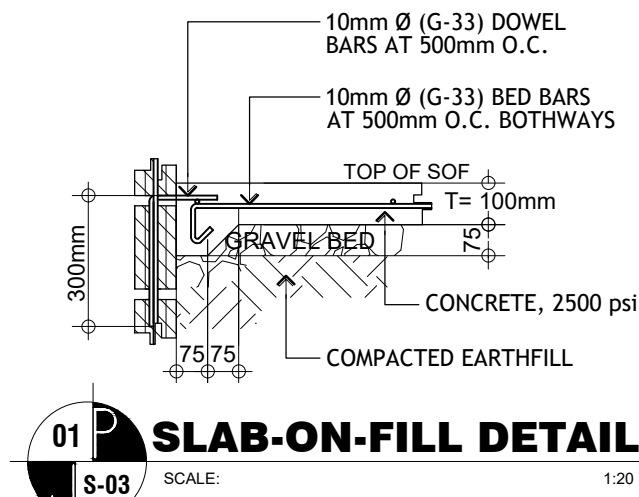
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RESIDENT ENGINEER

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S-02	
13	36

SCHEDULE OF FOOTINGS							
MARK	DIMENSIONS (mm)			DEPTH (mm)	MAIN REINFORCEMENTS		REMARKS
	L	W	T		ALONG LONG DIRECTION	ALONG SHORT DIRECTION	
CF-1	8200	4000	650	2000	18 - 25mm Ø TOP BARS & 18 - 25mm Ø BOTTOM BARS O.C.	38 - 20mm Ø TOP BARS & 38 - 20mm Ø BOTTOM BARS O.C.	COMBINED FOOTINGS
CF-2	7400	4000	650	2200	23 - 20mm Ø TOP BARS & 23 - 20mm Ø BOTTOM BARS O.C.	36 - 20mm Ø TOP BARS & 36 - 20mm Ø BOTTOM BARS O.C.	
CF-3	7400	3800	600	2000	21 - 20mm Ø TOP BARS & 21 - 20mm Ø BOTTOM BARS O.C.	36 - 20mm Ø TOP BARS & 36 - 20mm Ø BOTTOM BARS O.C.	
CF-4	7400	3400	550	2000	19 - 20mm Ø TOP BARS & 19 - 20mm Ø BOTTOM BARS O.C.	36 - 20mm Ø TOP BARS & 36 - 20mm Ø BOTTOM BARS O.C.	
CF-5	5300	3000	500	2000	19 - 20mm Ø TOP BARS & 19 - 20mm Ø BOTTOM BARS O.C.	27 - 20mm Ø TOP BARS & 27 - 20mm Ø BOTTOM BARS O.C.	
F-1	3200	3200	450	2000	20 - 16mm Ø TOP BARS & 20 - 16mm Ø BOTTOM BARS O.C.	20 - 16mm Ø TOP BARS & 20 - 16mm Ø BOTTOM BARS O.C.	ISOLATED FOOTINGS
F-2	2800	2800	450	2000	15 - 16mm Ø TOP BARS & 15 - 16mm Ø BOTTOM BARS O.C.	15 - 16mm Ø TOP BARS & 15 - 16mm Ø BOTTOM BARS O.C.	
F-3	2500	2500	350	2000	15 - 16mm Ø BED BARS O.C. BOTHWAYS		

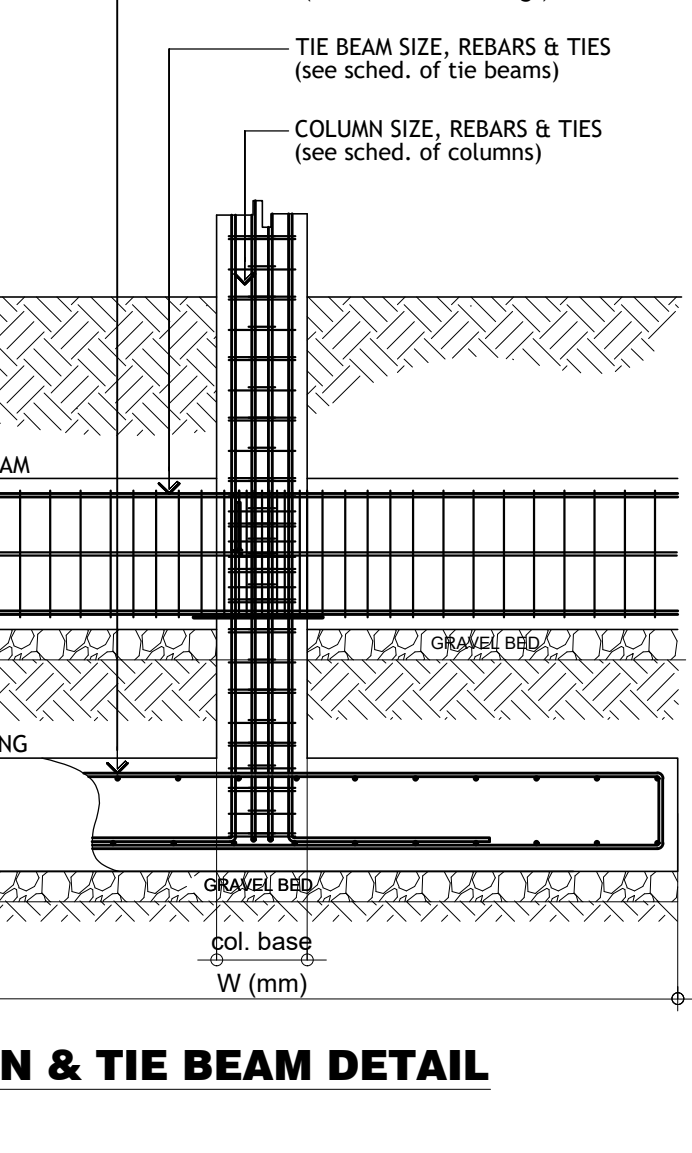
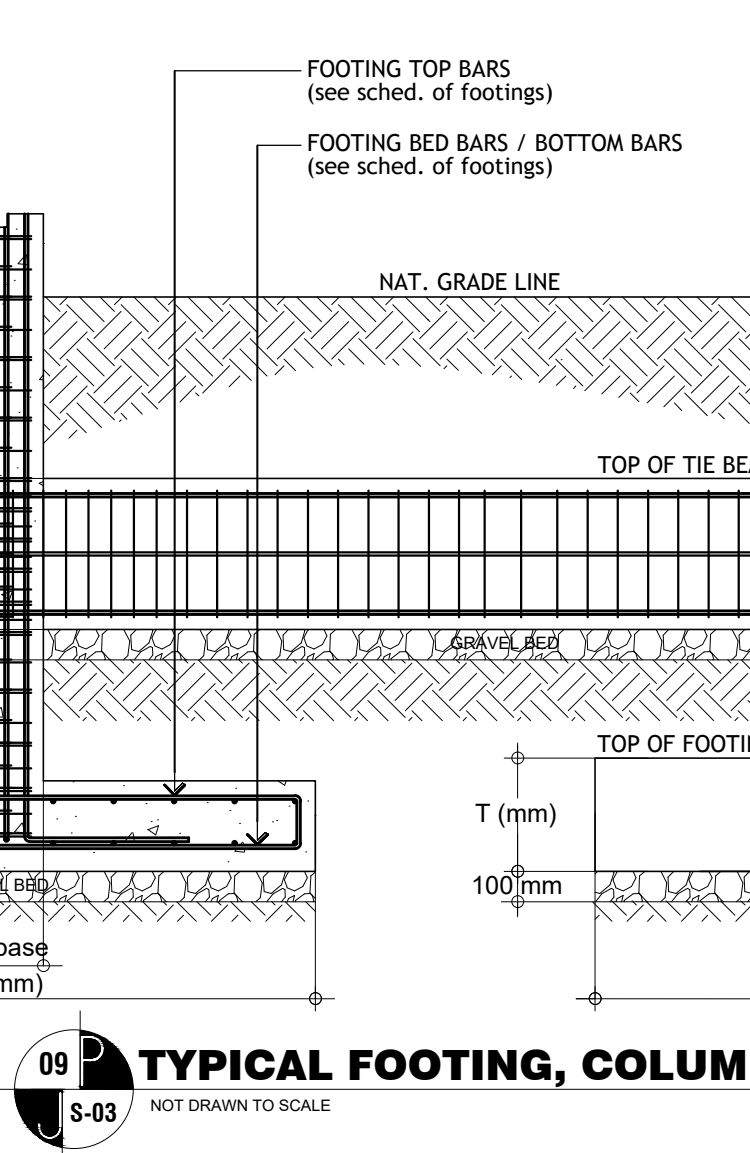
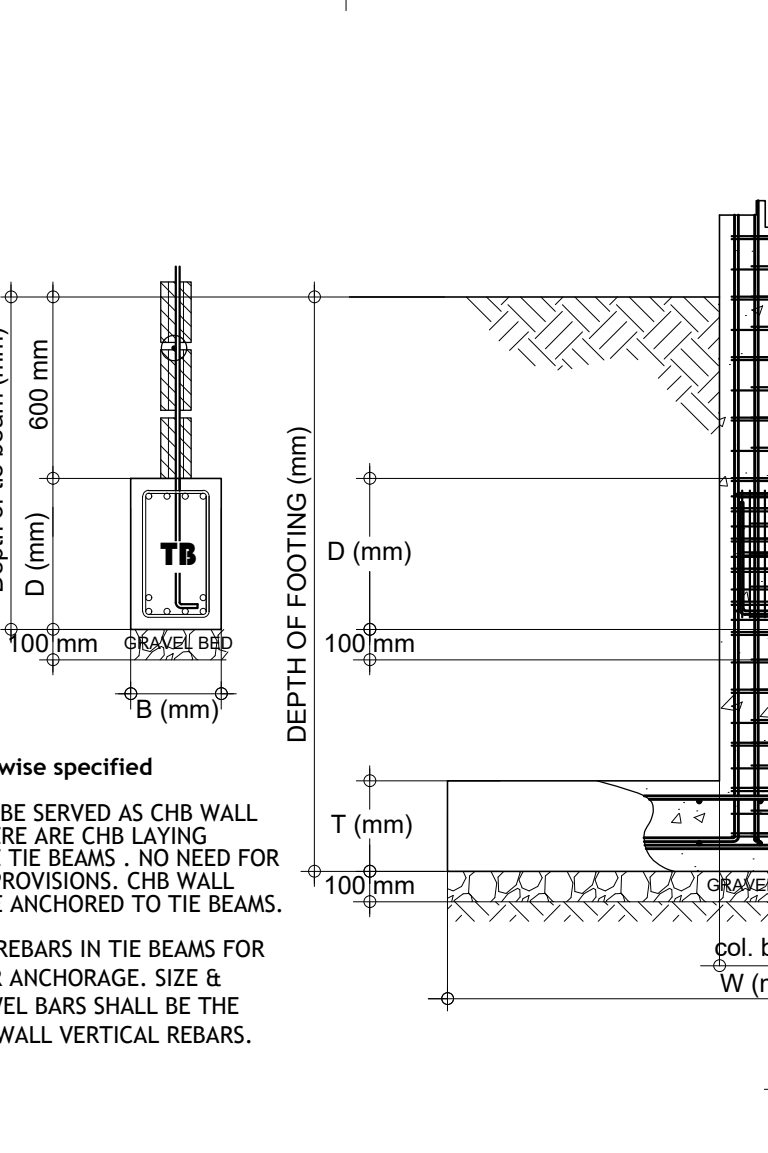
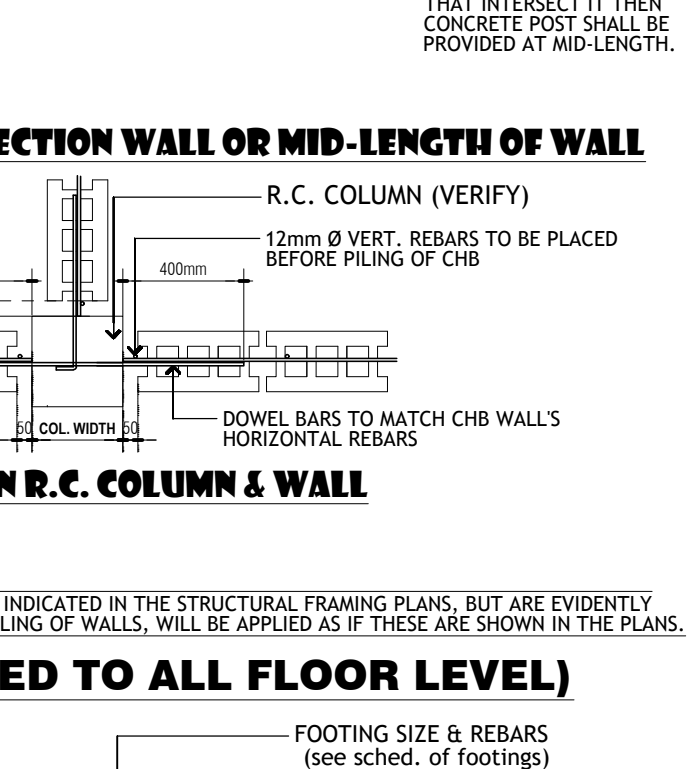
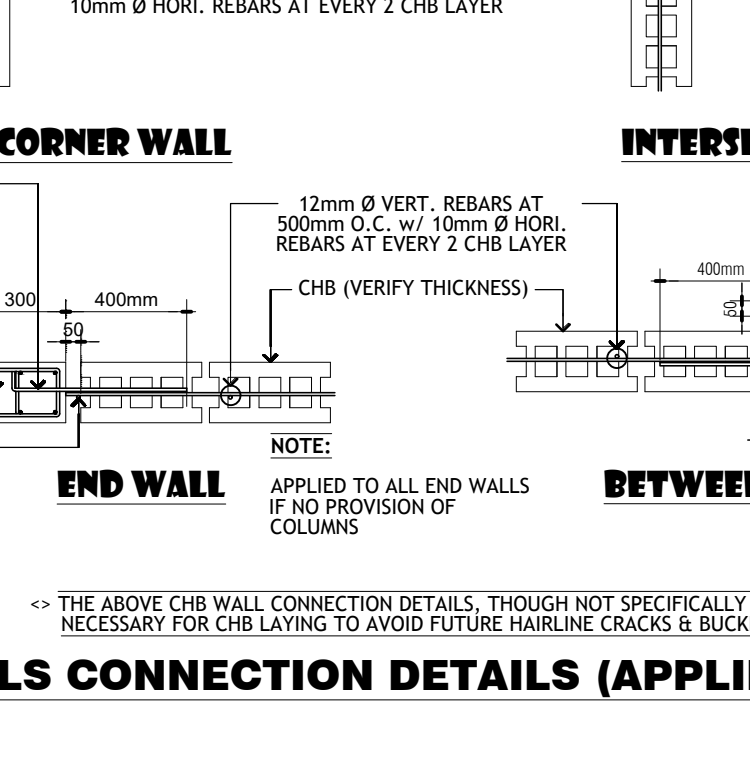
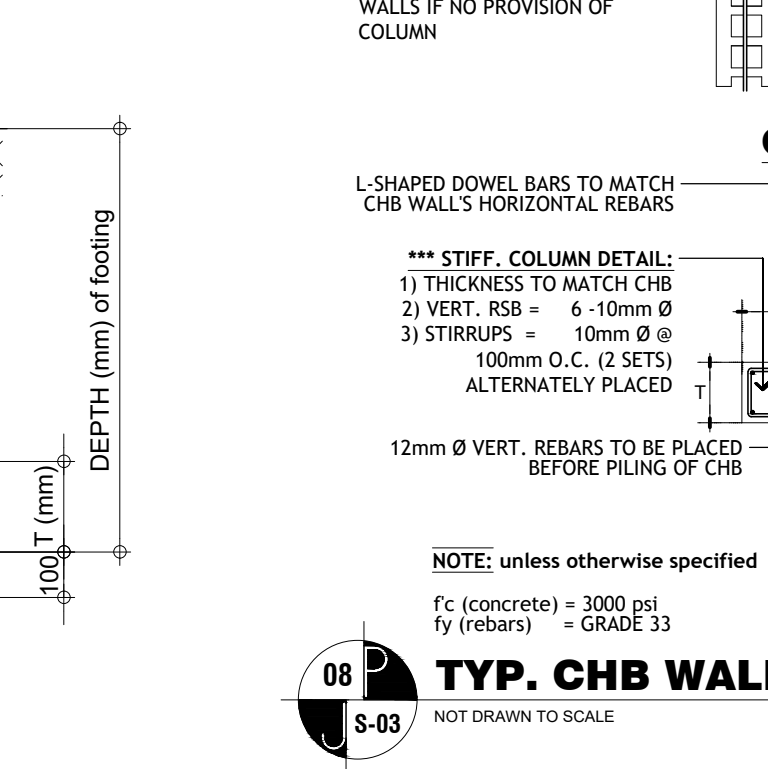
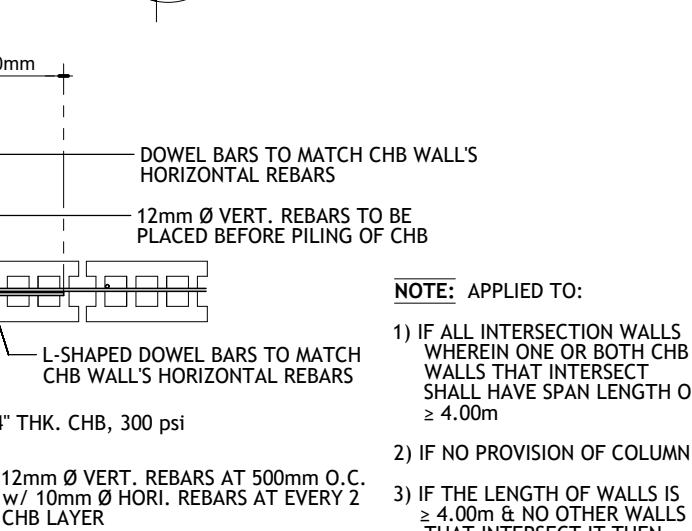
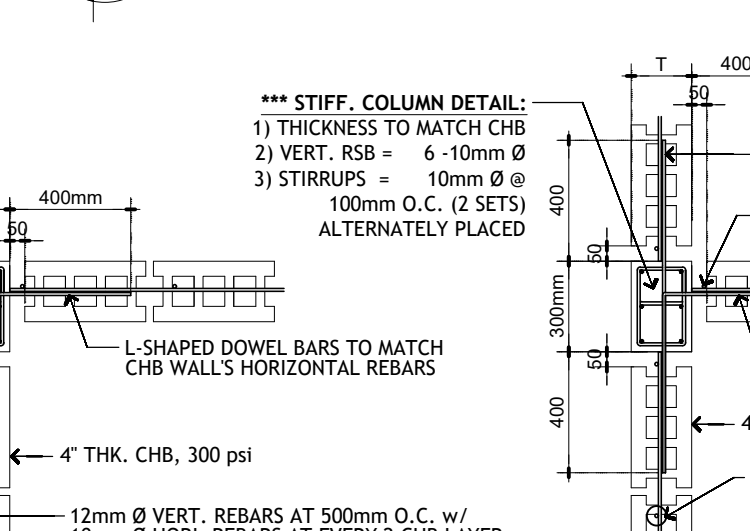
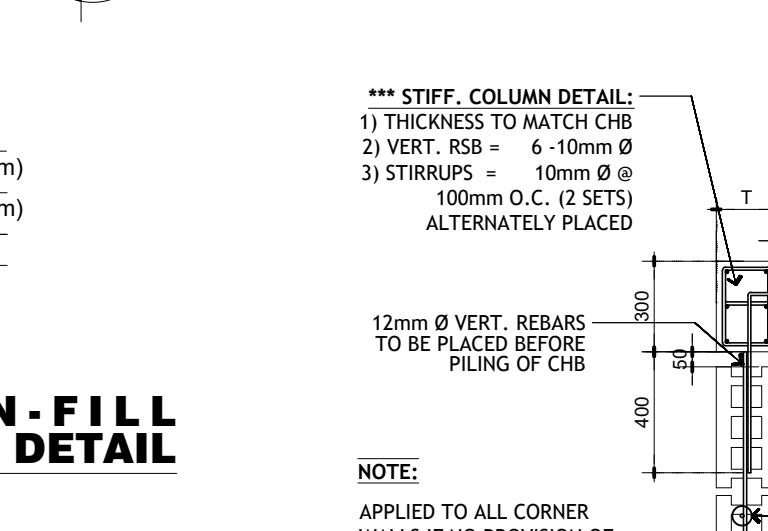
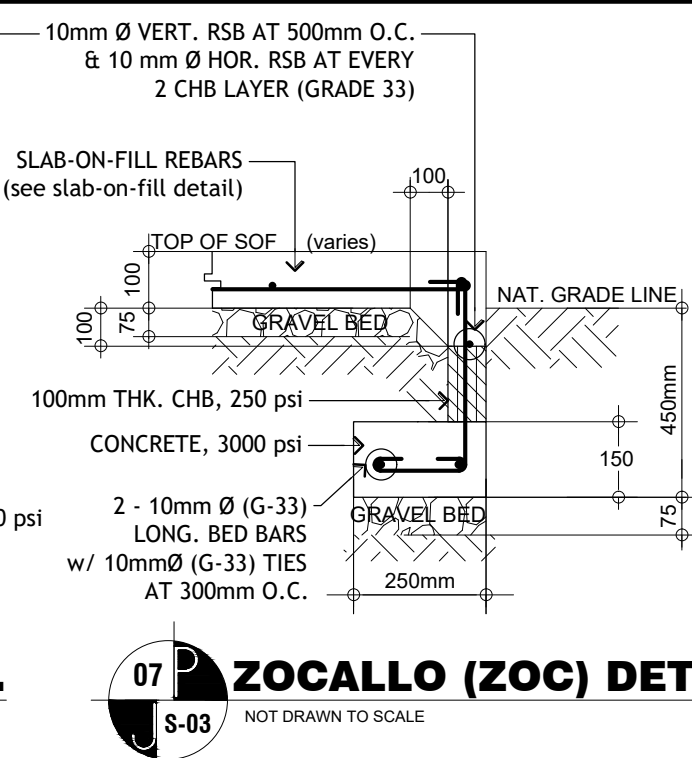
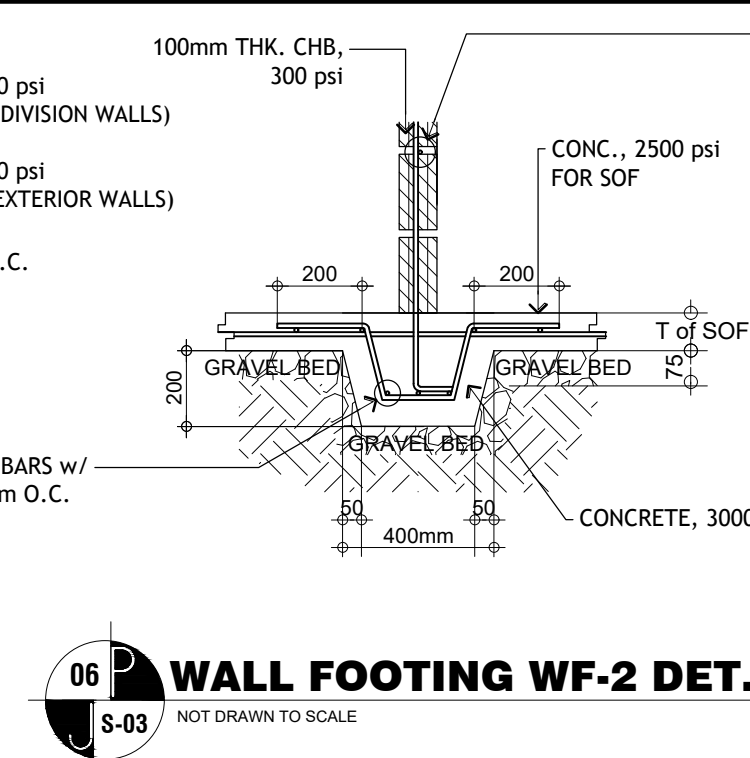
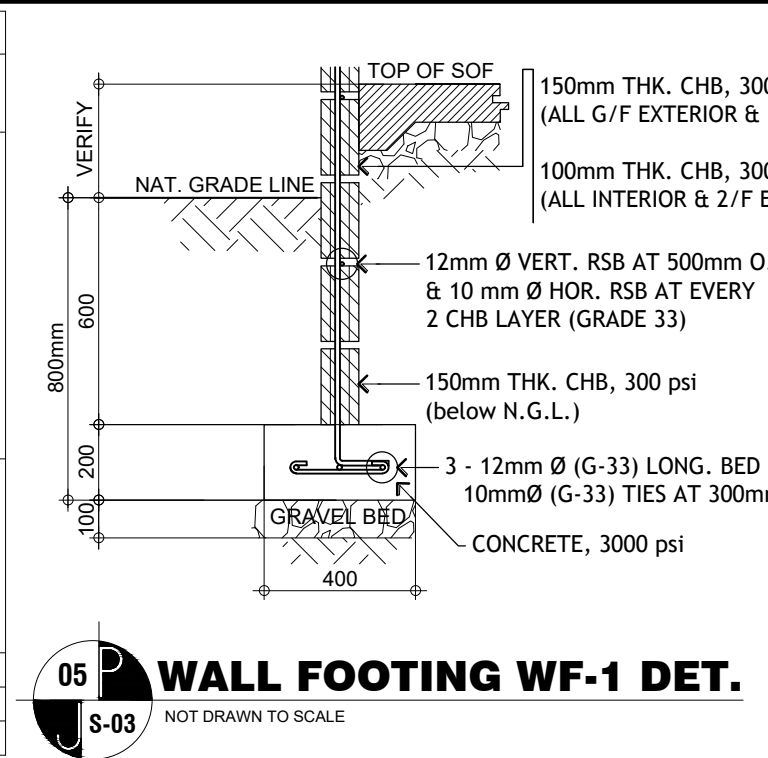
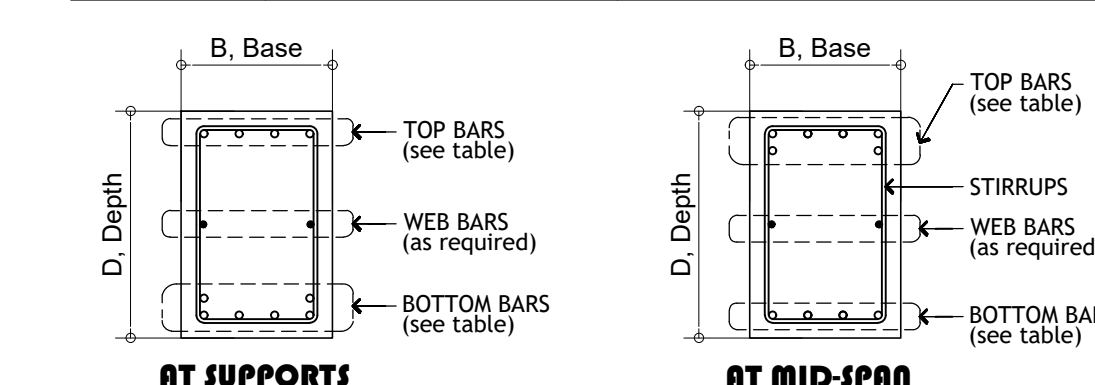
NOTE:
 f'c (concrete) 3500 psi (24.0 MPa)
 fy (rebars) GRADE 40 (275 MPa)



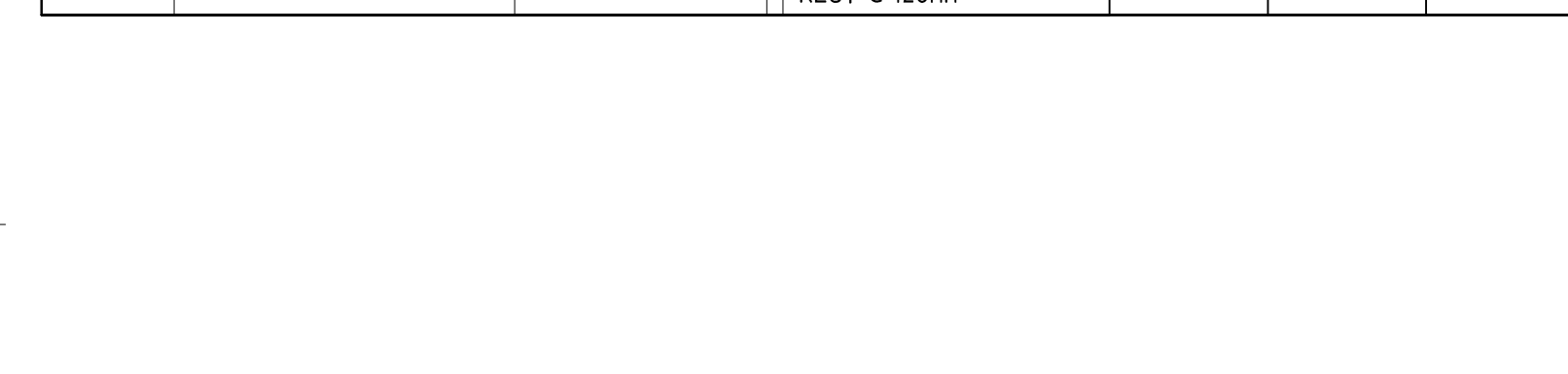
SCHEDULE OF TIE BEAMS							
MARK	DIMENSIONS (mm)		DEPTH (mm)	LOCATION	MAIN REINFORCEMENTS		
	B. Base	D, Depth			AT SUPPORTS	AT MID-SPAN	WEB BARS
TB-1	300	500	1100	TOP	5 - 20mm Ø CB	5 - 20mm Ø CB	2 - 16mm Ø CB
				BOTTOM	5 - 20mm Ø CB	5 - 20mm Ø CB	
TB-2	300	500	1100	TOP	3 - 20mm Ø CB	3 - 20mm Ø CB	2 - 16mm Ø CB
				BOTTOM	3 - 20mm Ø CB	3 - 20mm Ø CB	
TB-3	300	450	1050	TOP	3 - 16mm Ø CB	3 - 16mm Ø CB	---
				BOTTOM	3 - 16mm Ø CB	3 - 16mm Ø CB	

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

NOTE: 10mm Ø STIRRUPS --- 5 @ 50mm, 10 @ 100mm, REST @ 150mm O.C.



SCHEDULE OF PRIMARY & SECONDARY COLUMNS						
MARK	DIMENSIONS (b x d) & BAR ARRANGEMENT	REINFORCEMENTS	f'c (concrete)	fy (steel bars)		
				main bars	stirrups	
C-1 2C-1	b=400 mm d=400 mm	VERTICAL REBARS : 16 - 25MM 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-2	b=400 mm d=400 mm	VERTICAL REBARS : 12 - 25MM 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-4	b=400 mm d=350 mm	VERTICAL REBARS : 12 - 25MM 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=400 mm	VERTICAL REBARS : 12 - 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)	
3C-2	b=400 mm d=400 mm	VERTICAL REBARS : 12 - 16MM Ø MAIN LATERAL TIES : 10MM Ø SECONDARY TIES : 10MM Ø ALTERNATE	3500 PSI (24.0 MPa)	GRADE 40 (275 MPa)	GRADE 33 (227 MPa)	
3C-3	b=400 mm d=350 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)	
PWC PARAPET WALL COLUMN	b=350 mm d=200 mm	VERTICAL REBARS : 6 - 16MM Ø MAIN LATERAL TIES : 10MM Ø	3500 PSI (24.0 MPa)	GRADE 40 (275 MPa)	GRADE 33 (227 MPa)	
SC1 WALL STIFF. COLUMN	b=400 mm d=150 mm	VERTICAL REBARS : 8 - 12MM Ø MAIN LATERAL TIES : 10MM Ø DOUBLE	3000 PSI (21.0 MPa)	GRADE 33 (227 MPa)	GRADE 33 (227 MPa)	
SC2 WALL STIFF. COLUMN	b=300 mm d=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)	



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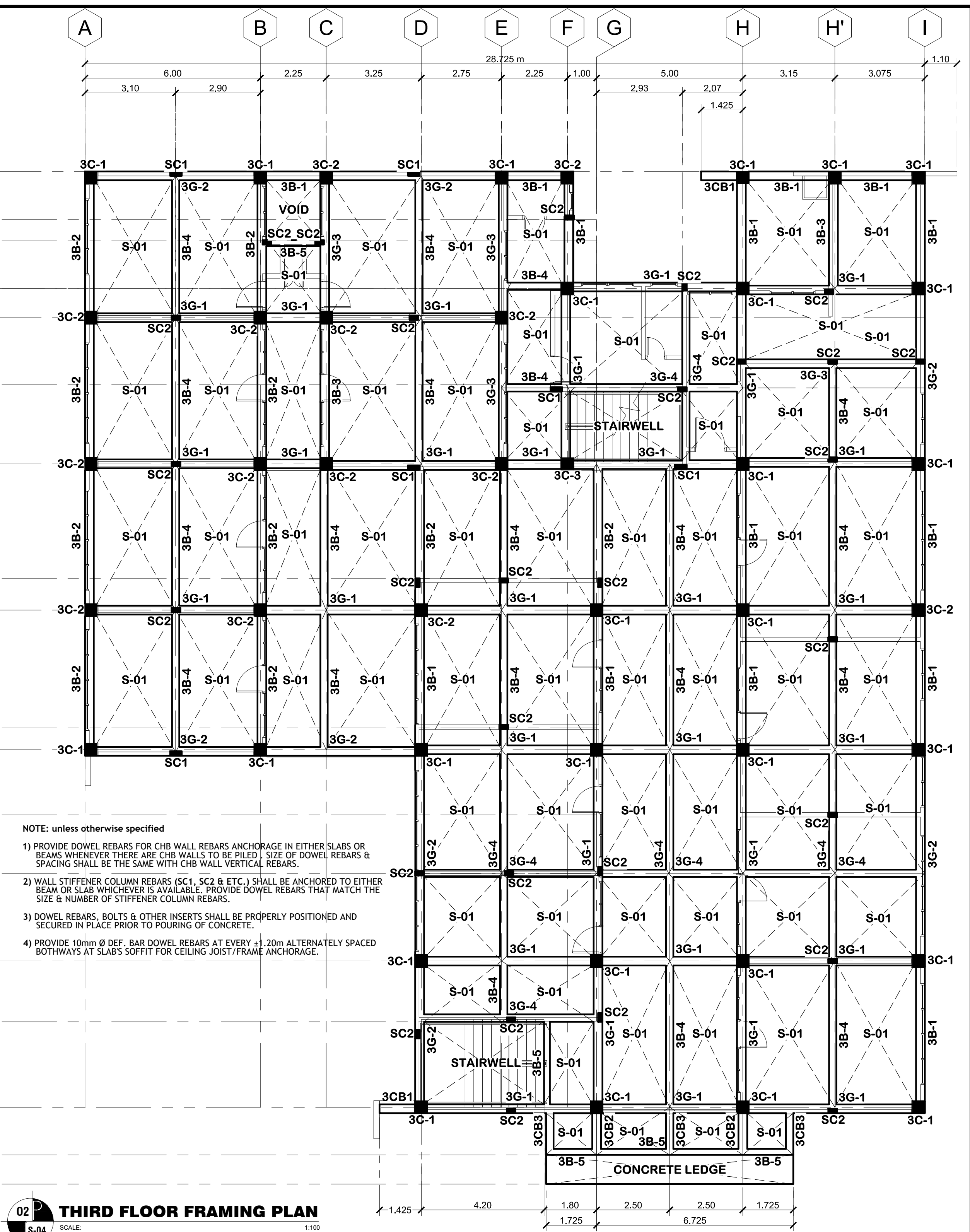
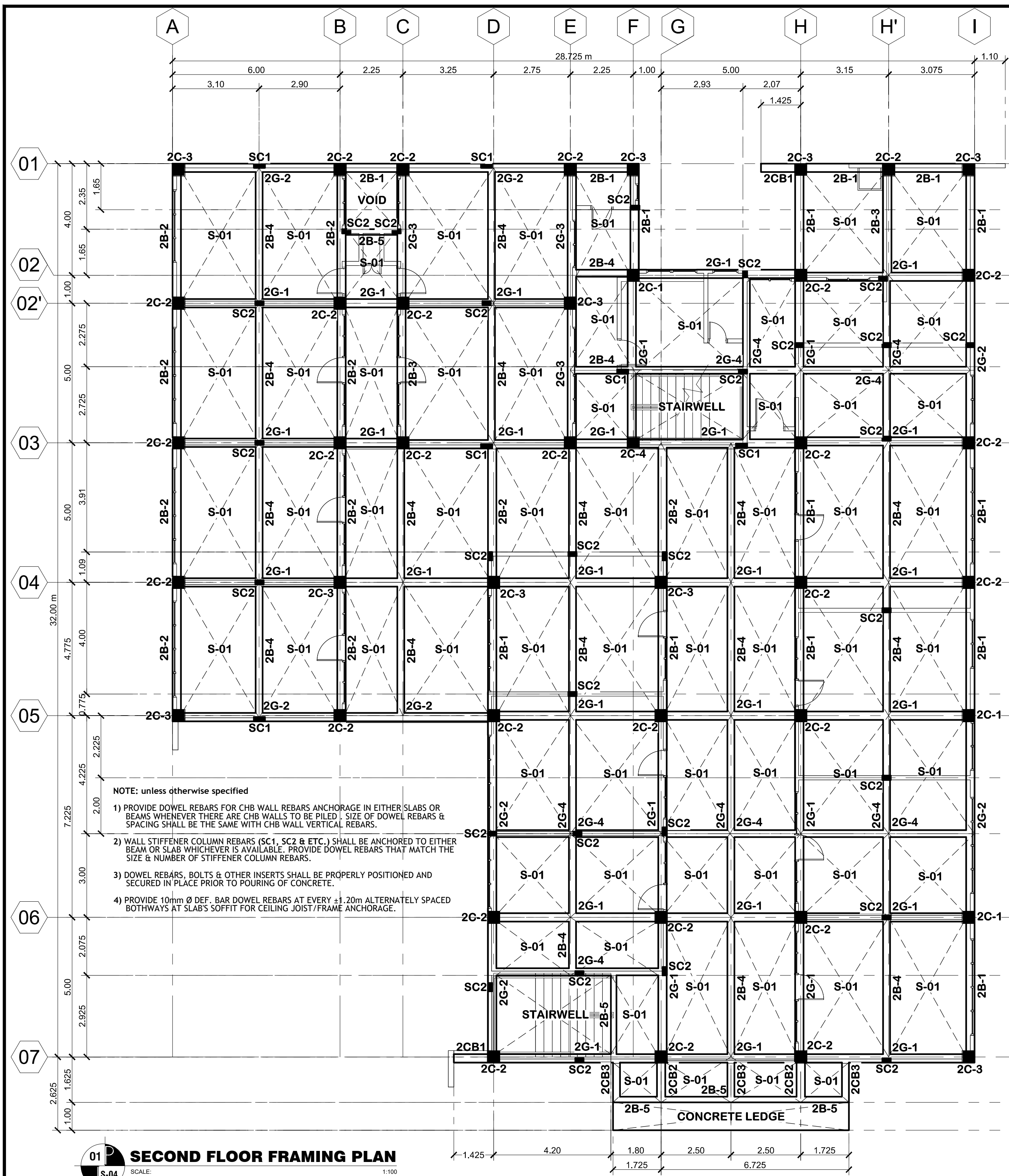
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 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
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 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-03
 14 36



01 SECOND FLOOR FRAMING PLAN
SCALE: 1:100

02 THIRD FLOOR FRAMING PLAN
SCALE: 1:100

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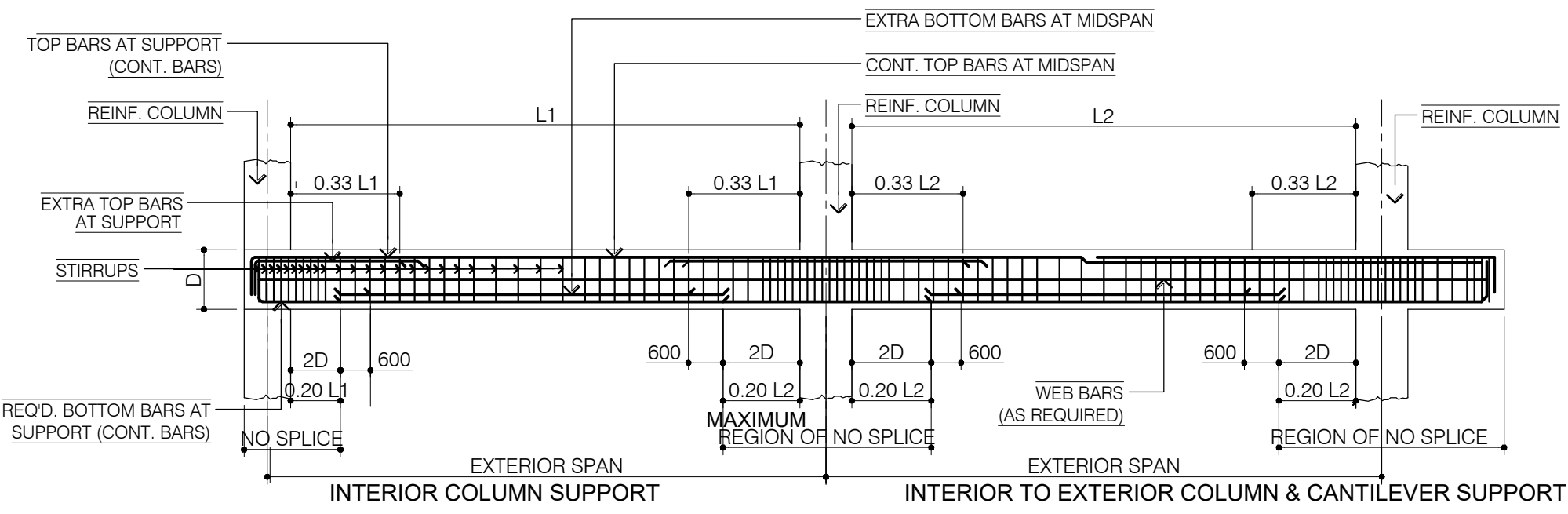
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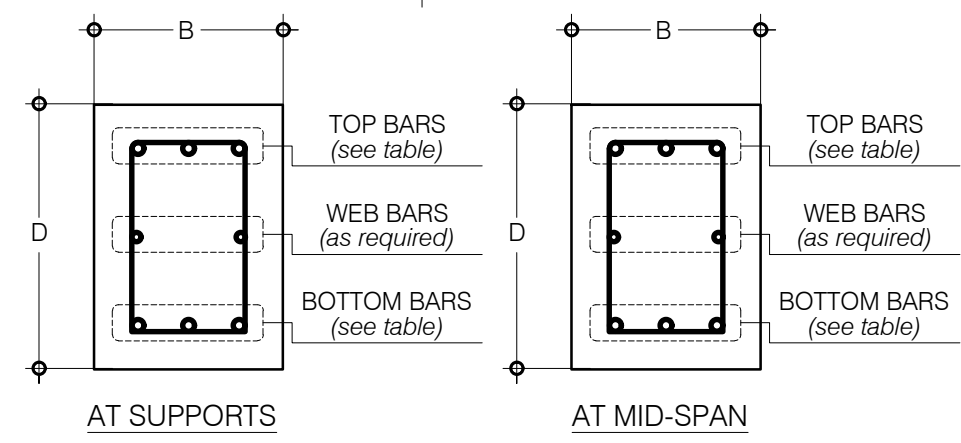
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15 36

SCHEDULE OF GIRDERS & BEAMS						
MARK	DIMENSIONS (mm) B, Base D, Depth	LOCATION	MAIN REINFORCEMENTS			
			AT SUPPORTS	AT MID-SPAN	WEB BARS	STIRRUPS
SECOND FLOOR LEVEL						
2G-1	350	600	TOP 5 - 20mm Ø CB + 4 - 20mm Ø EB	5 - 20mm Ø CB	2 - 16mm Ø CB	A
2G-2 / 2B-1	300	600	TOP 5 - 20mm Ø CB + 2 - 20mm Ø EB	5 - 20mm Ø CB + 4 - 20mm Ø EB	2 - 16mm Ø CB	A
			BOTTOM 5 - 20mm Ø CB	5 - 20mm Ø CB		
2B-2	300	500	TOP 4 - 20mm Ø CB + 2 - 20mm Ø EB	4 - 20mm Ø CB	2 - 16mm Ø CB	B
			BOTTOM 4 - 20mm Ø CB	4 - 20mm Ø CB + 2 - 20mm Ø EB		
2G-3 / 2B-3	300	450	TOP 4 - 20mm Ø CB + 2 - 20mm Ø EB	4 - 20mm Ø CB	---	B
			BOTTOM 4 - 20mm Ø CB	4 - 20mm Ø CB + 2 - 20mm Ø EB		
2G-4 / 2B-4	250	450	TOP 3 - 20mm Ø CB + 2 - 20mm Ø EB	3 - 20mm Ø CB	---	B
			BOTTOM 3 - 20mm Ø CB	3 - 20mm Ø CB + 2 - 20mm Ø EB		
2B-5	200	400	TOP 2 - 20mm Ø CB	2 - 20mm Ø CB	2 - 16mm Ø CB	C
			BOTTOM 2 - 20mm Ø CB	2 - 20mm Ø CB		
2CB1	300	600	TOP 7 - 20mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 5 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
2CB2	300	450	TOP 6 - 20mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 4 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
2CB3	250	450	TOP 5 - 20mm Ø CB	CANTILEVER BEAM	---	C
			BOTTOM 3 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
THIRD FLOOR LEVEL						
3G-1	350	600	TOP 4 - 20mm Ø CB + 4 - 20mm Ø EB	4 - 20mm Ø CB	2 - 16mm Ø CB	A
3G-2 / 3B-1	300	600	TOP 4 - 20mm Ø CB + 2 - 20mm Ø EB	4 - 20mm Ø CB + 4 - 20mm Ø EB	2 - 16mm Ø CB	A
			BOTTOM 4 - 20mm Ø CB	4 - 20mm Ø CB + 2 - 20mm Ø EB		
3B-2	300	500	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		
3G-3 / 3B-3	300	450	TOP 3 - 20mm Ø CB + 2 - 20mm Ø EB	3 - 20mm Ø CB	---	B
			BOTTOM 3 - 20mm Ø CB	3 - 20mm Ø CB + 2 - 20mm Ø EB		
3G-4 / 3B-4	250	450	TOP 2 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 20mm Ø CB	---	B
			BOTTOM 2 - 20mm Ø CB	2 - 20mm Ø CB + 2 - 20mm Ø EB		
3B-5	200	400	TOP 2 - 20mm Ø CB	2 - 20mm Ø CB	2 - 16mm Ø CB	C
			BOTTOM 2 - 20mm Ø CB	2 - 20mm Ø CB		
3CB1	300	600	TOP 6 - 20mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 4 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
3CB2	300	450	TOP 5 - 20mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 3 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
3CB3	250	450	TOP 4 - 20mm Ø CB	CANTILEVER BEAM	---	C
			BOTTOM 2 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
ROOF BEAM LEVEL						
RG-1 / RB-1	300	500	TOP 4 - 16mm Ø CB + 2 - 16mm Ø EB	4 - 16mm Ø CB	2 - 16mm Ø CB	B
RG-2 / RB-2	300	450	TOP 3 - 16mm Ø CB + 2 - 16mm Ø EB	3 - 16mm Ø CB	2 - 16mm Ø CB	B
			BOTTOM 3 - 16mm Ø CB	3 - 16mm Ø CB + 3 - 16mm Ø EB		
RB-3	250	400	TOP 3 - 16mm Ø CB	3 - 16mm Ø CB	---	C
			BOTTOM 3 - 16mm Ø CB	3 - 16mm Ø CB		
RCB1	300	500	TOP 6 - 16mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 4 - 16mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
RCB2	300	450	TOP 5 - 16mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	C
			BOTTOM 3 - 16mm Ø CB	CANTILEVER BEAM (TAPERED TO 400mm)		
RCB3	250	400	TOP 3 - 16mm Ø CB	CANTILEVER BEAM	---	C
			BOTTOM 3 - 16mm Ø CB	CANTILEVER BEAM		

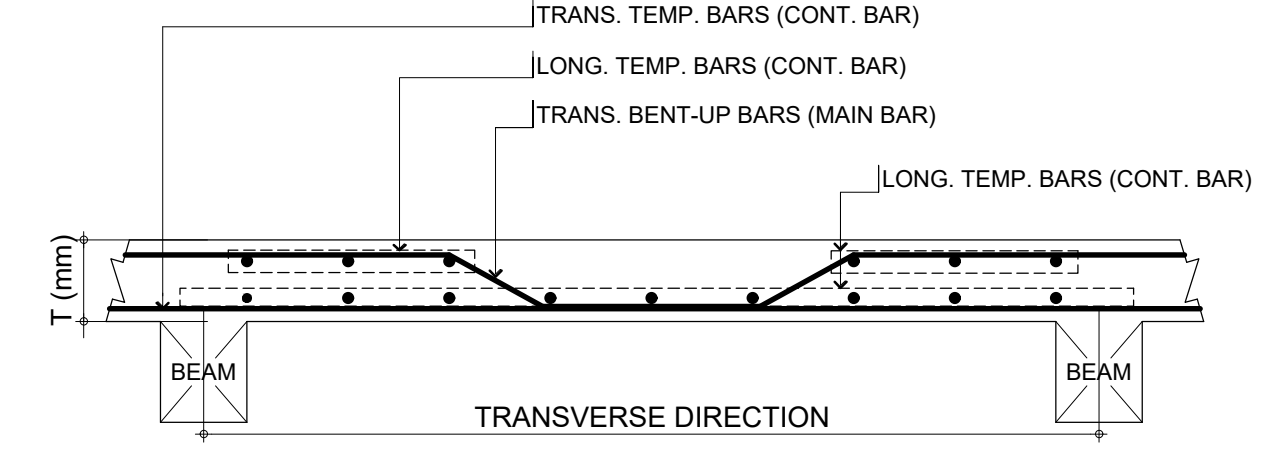
SCHEDULE OF SUSPENDED SLABS				
MARK	T (mm)	LOCATION	REINFORCEMENTS	
			ALONG TRANSVERSE DIRECTION	ALONG LONGITUDINAL DIRECTION
S-01 TWO-WAY SLAB	100	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN
			AT L/4	10mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 300mm O.C.	
S-02 TWO-WAY SLAB	130	MAIN TOP BARS	AT L/2	12mm Ø BENT-UP BARS AT 250mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN
			AT L/4	12mm Ø BENT-UP BARS AT 300mm O.C. w/ 12mm Ø CUT BARS IN BETWEEN
		BOTTOM TEMP. BARS	12mm Ø CONT. BARS AT 250mm O.C.	
f'c (concrete)	3500 psi (24.0MPa)			
fy (rebars)	GRADE 40 (275 MPa)			



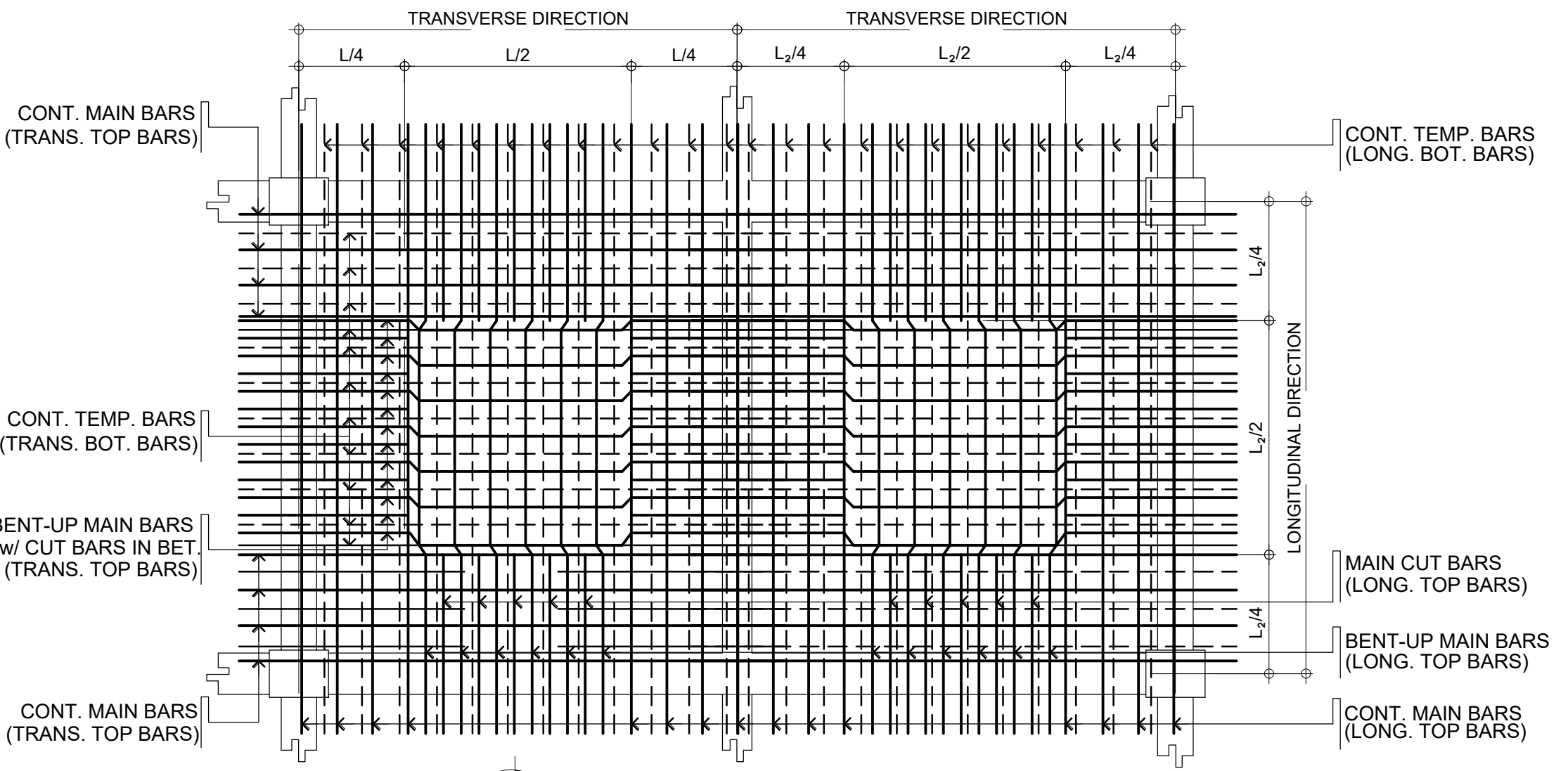
01 TYPICAL GIRDER/BEAM LONGITUDINAL SECTION DETAIL
NOT DRAWN TO SCALE



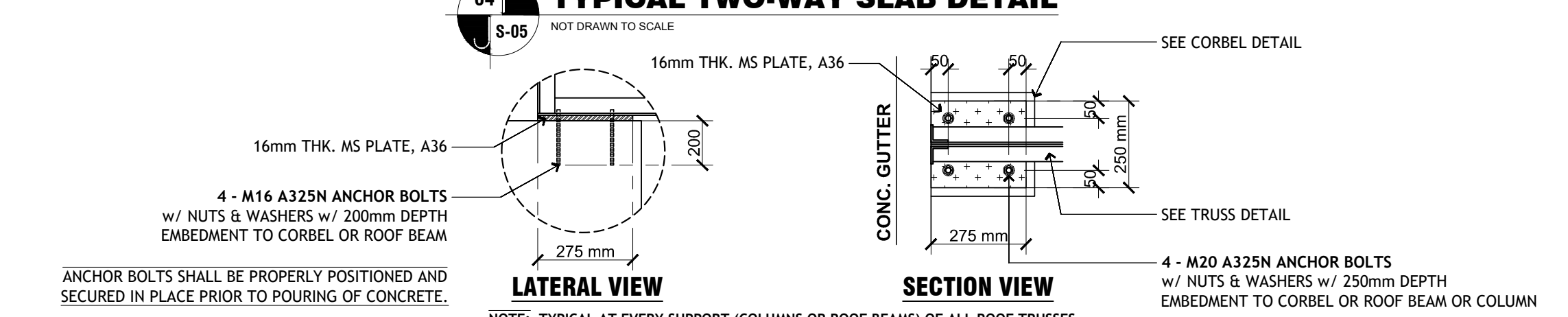
02 TYPICAL BEAM SECTION DETAIL
NOT DRAWN TO SCALE



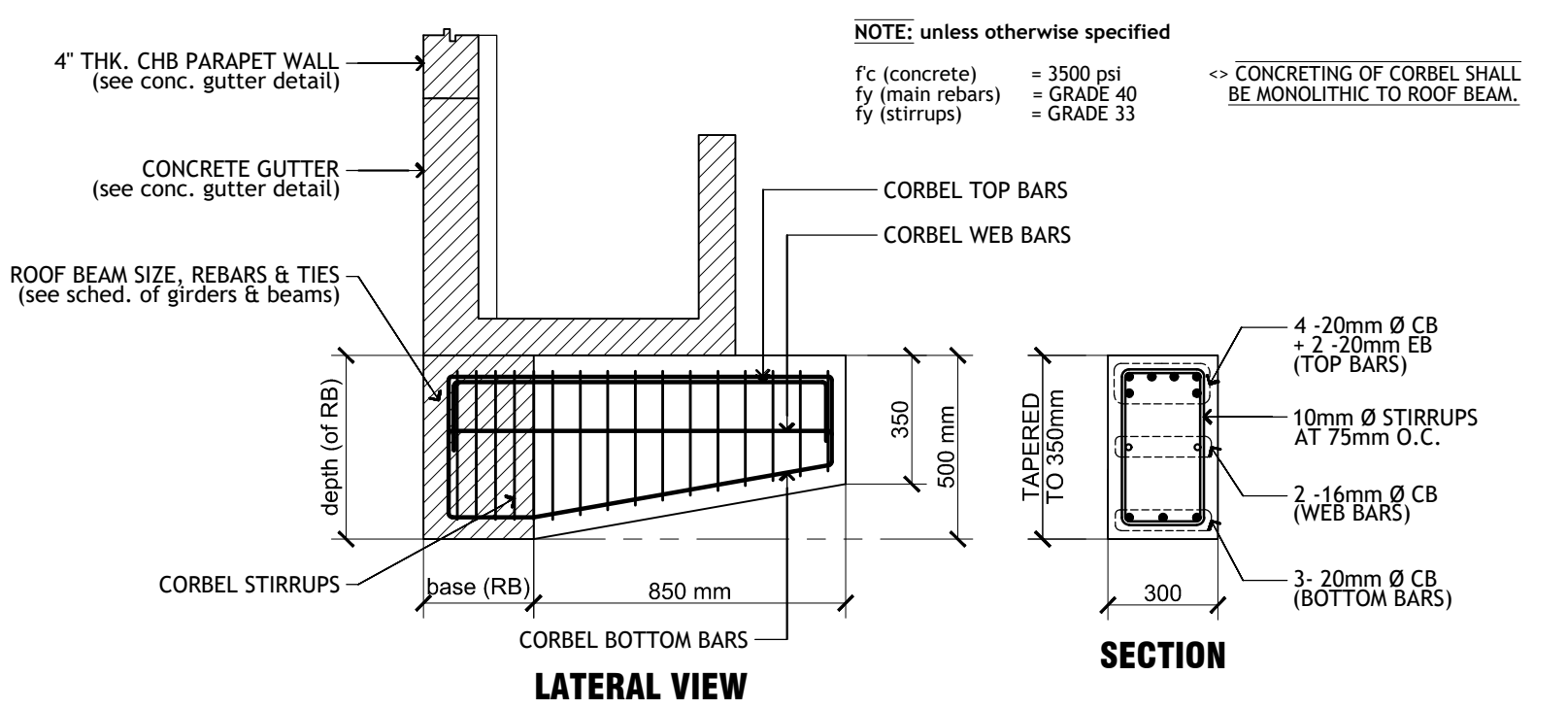
03 TYPICAL ONE-WAY SLAB DETAIL
NOT DRAWN TO SCALE



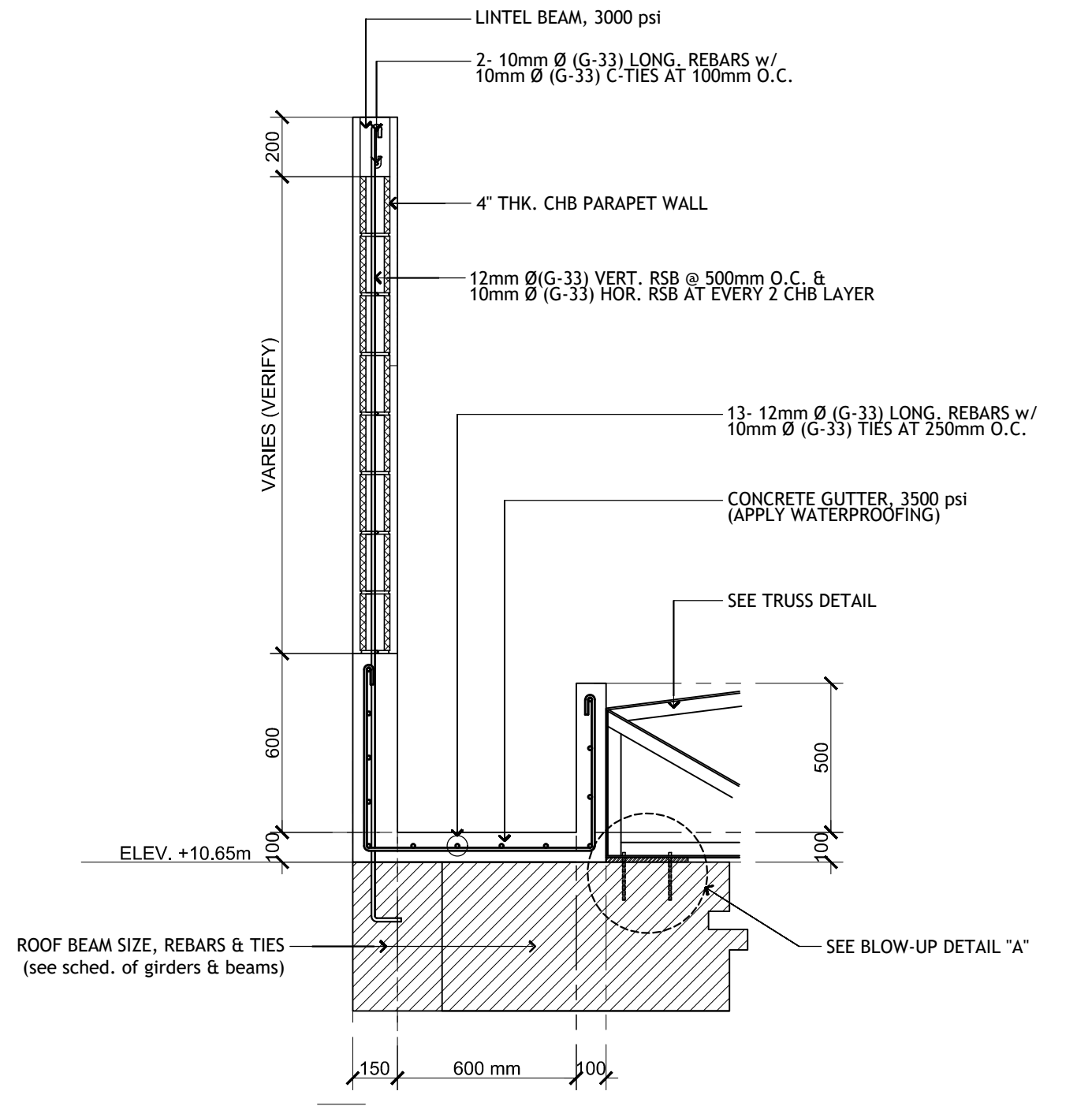
04 TYPICAL TWO-WAY SLAB DETAIL
NOT DRAWN TO SCALE



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



05 TYPICAL CORBEL DETAIL
SCALE: 1:20



06 TYPICAL CONCRETE GUTTER DETAIL
NOT DRAWN TO SCALE

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎: 301-1917

MICHAEL T. ANG, FUP
ARCHITECT

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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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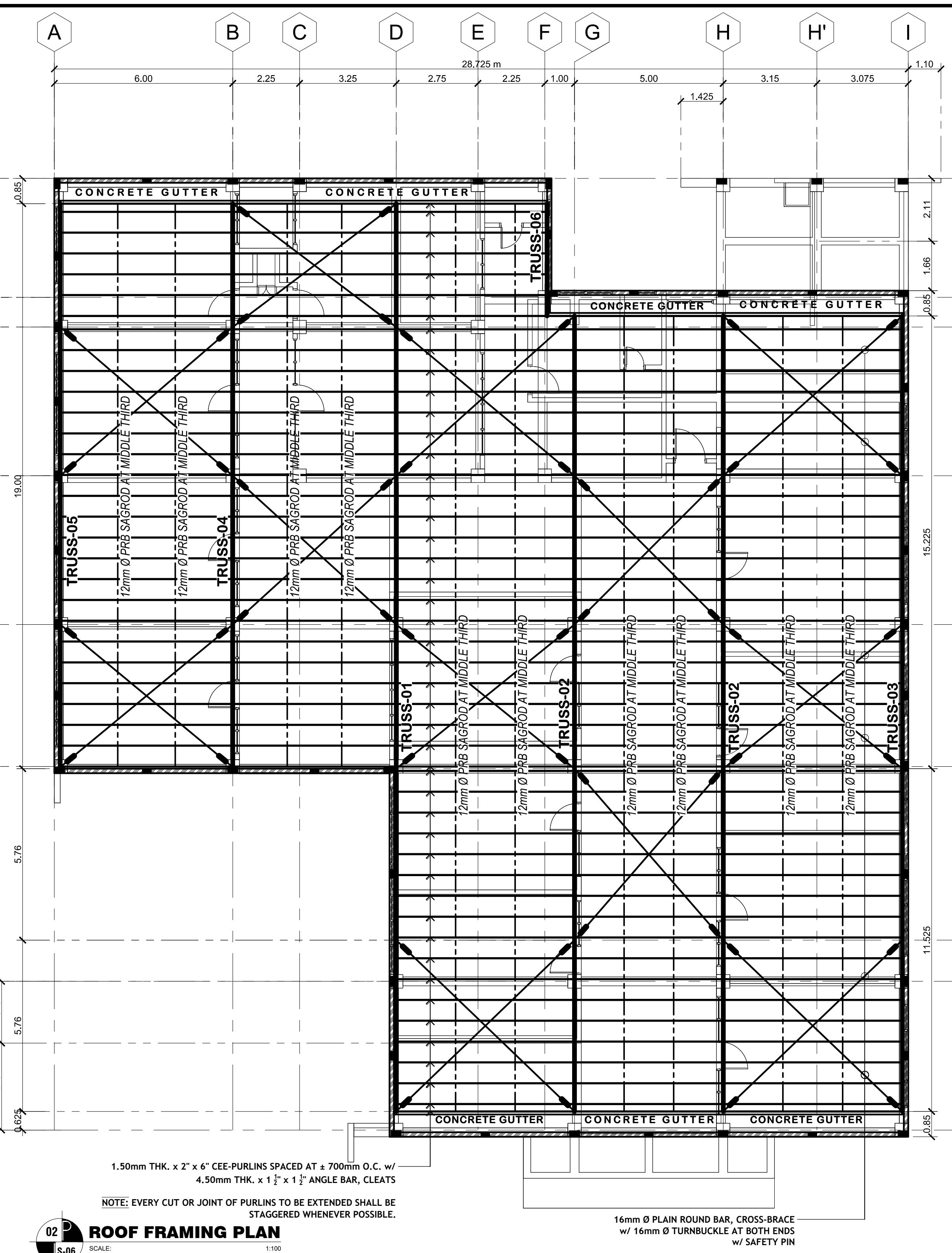
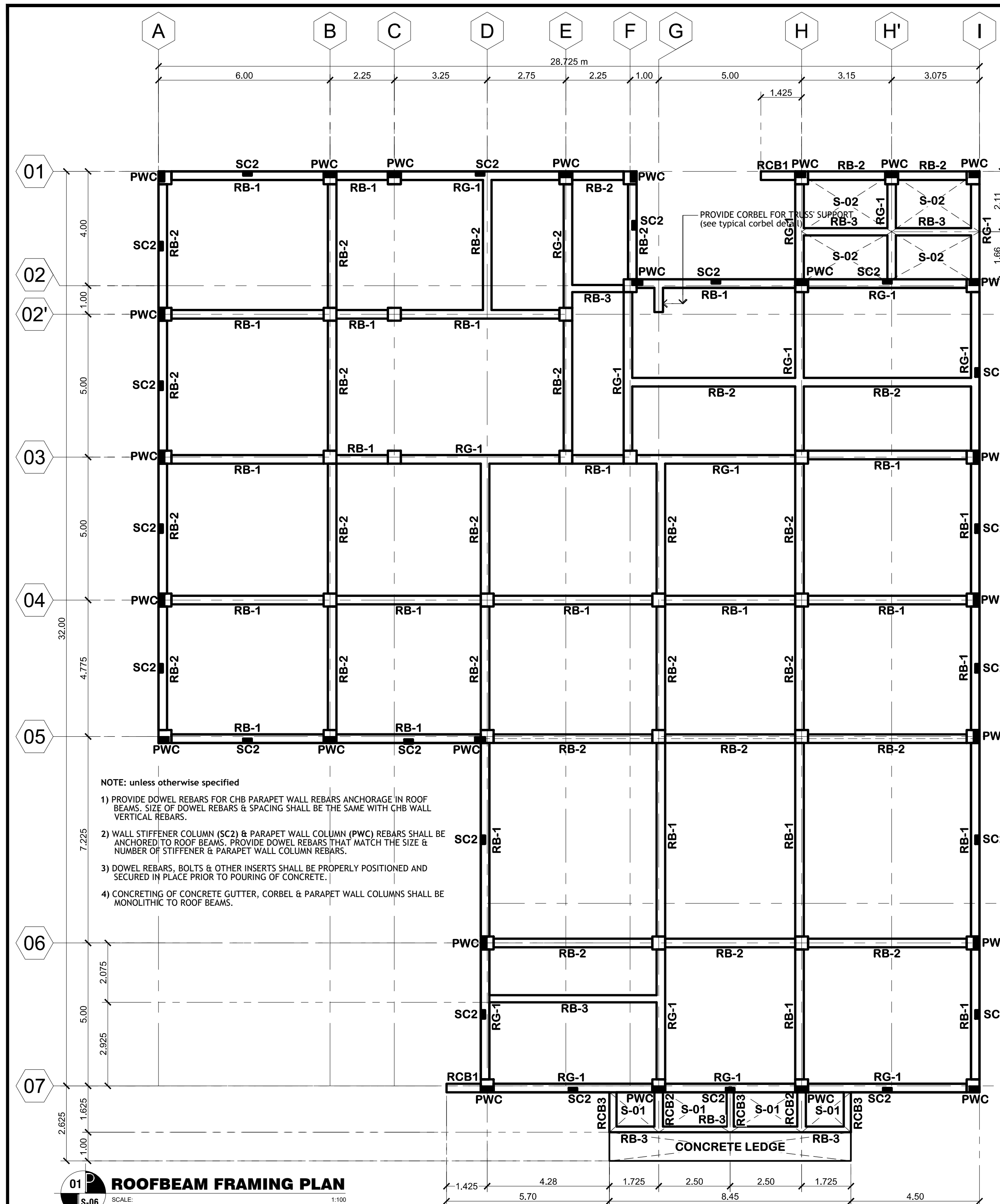
JAMES P. PACIS, PICE, ASEP
CIVIL/STRUCTURAL ENGINEER
P.R.C. NO.: 52853 ASEP-SIE NO.: 52853-111
P.T.R. NO.: 7805170 ISSUED DATE: 01-04-18
ISSUED AT: G.S.C. T.I.N.: 102-800-986

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

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STRUCTURAL CONSULTANT
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RESIDENT ENGINEER

SHEET NO.
S-05
16 36



01 ROOFBEAM FRAMING PLAN
SCALE: 1:100

02 ROOF FRAMING PLAN
SCALE: 1:100

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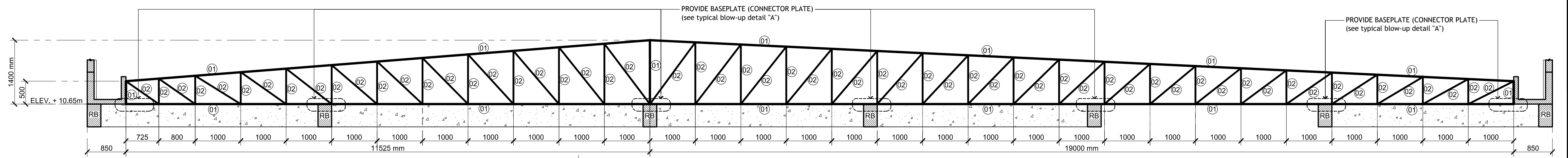
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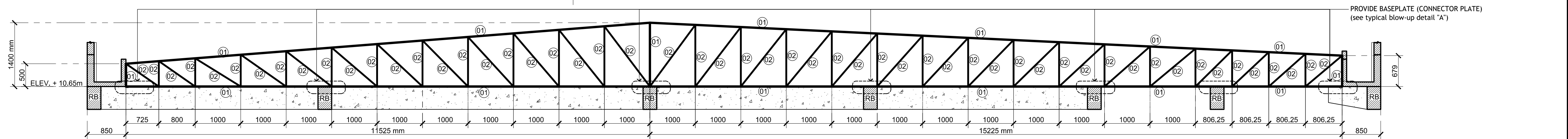
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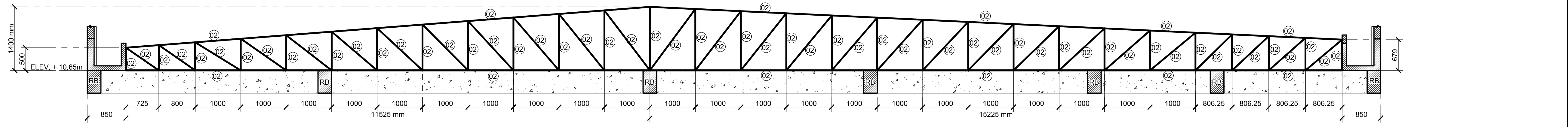
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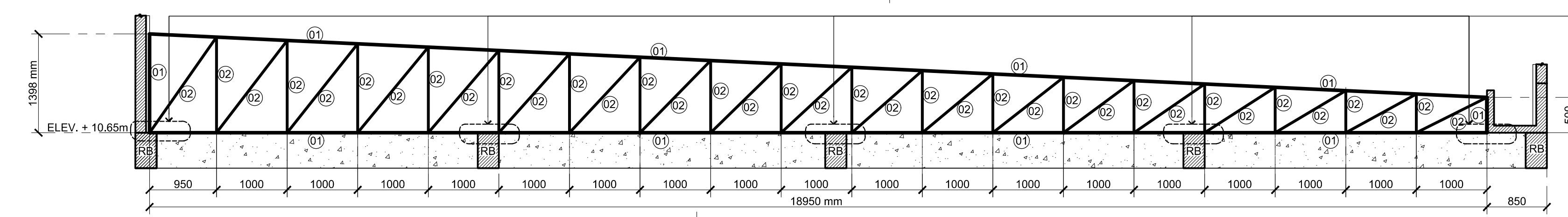
01 TRUSS - 01 DETAIL
SCALE: 1:50



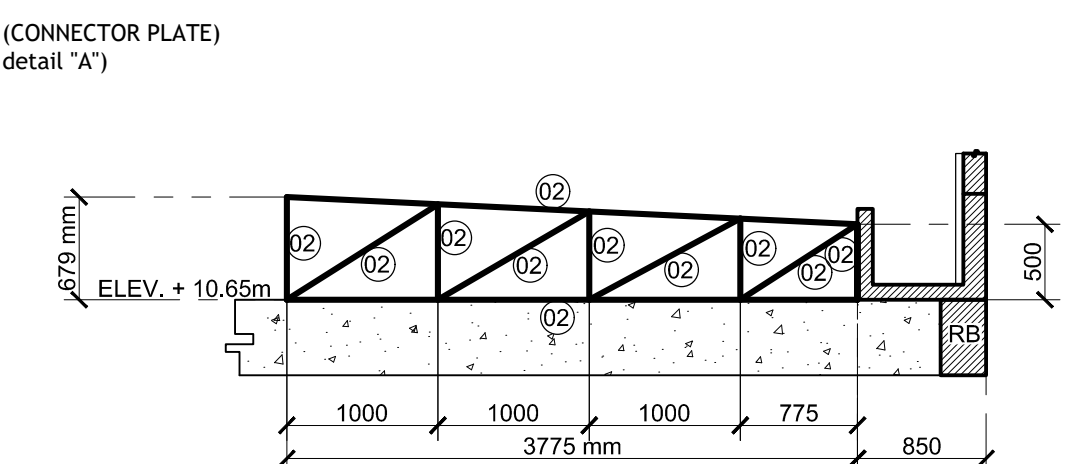
02 TRUSS - 02 DETAIL
SCALE: 1:50



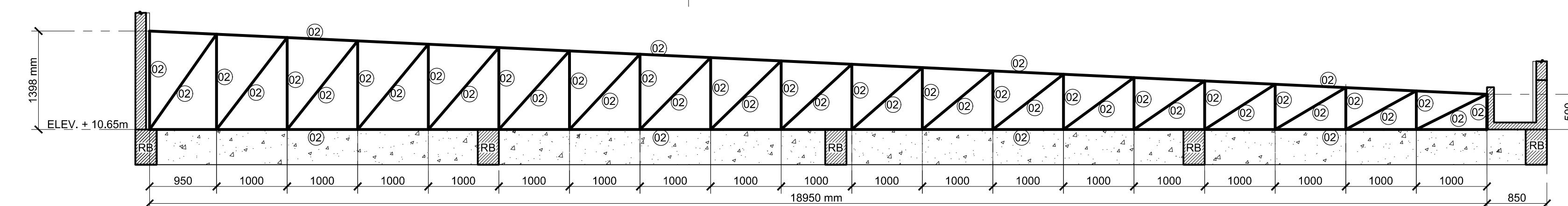
03 TRUSS - 03 DETAIL
SCALE: 1:50



04 TRUSS - 04 DETAIL
SCALE: 1:50



06 TRUSS - 06 DETAIL
SCALE: 1:50



05 TRUSS - 05 DETAIL
SCALE: 1:50

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		12mm Ø PLAIN ROUND BAR AT MIDSPAN
CLEATS		4.50mm THK. x 1 1/2" x 1 1/2" ANGLE BAR, A36

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

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P.T.R. NO.: 7805170 ISSUED DATE: 01-04-18
ISSUED AT: G.S.C. T.I.N.: :102-900-986

PROJECT TITLE / LOCATION
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PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

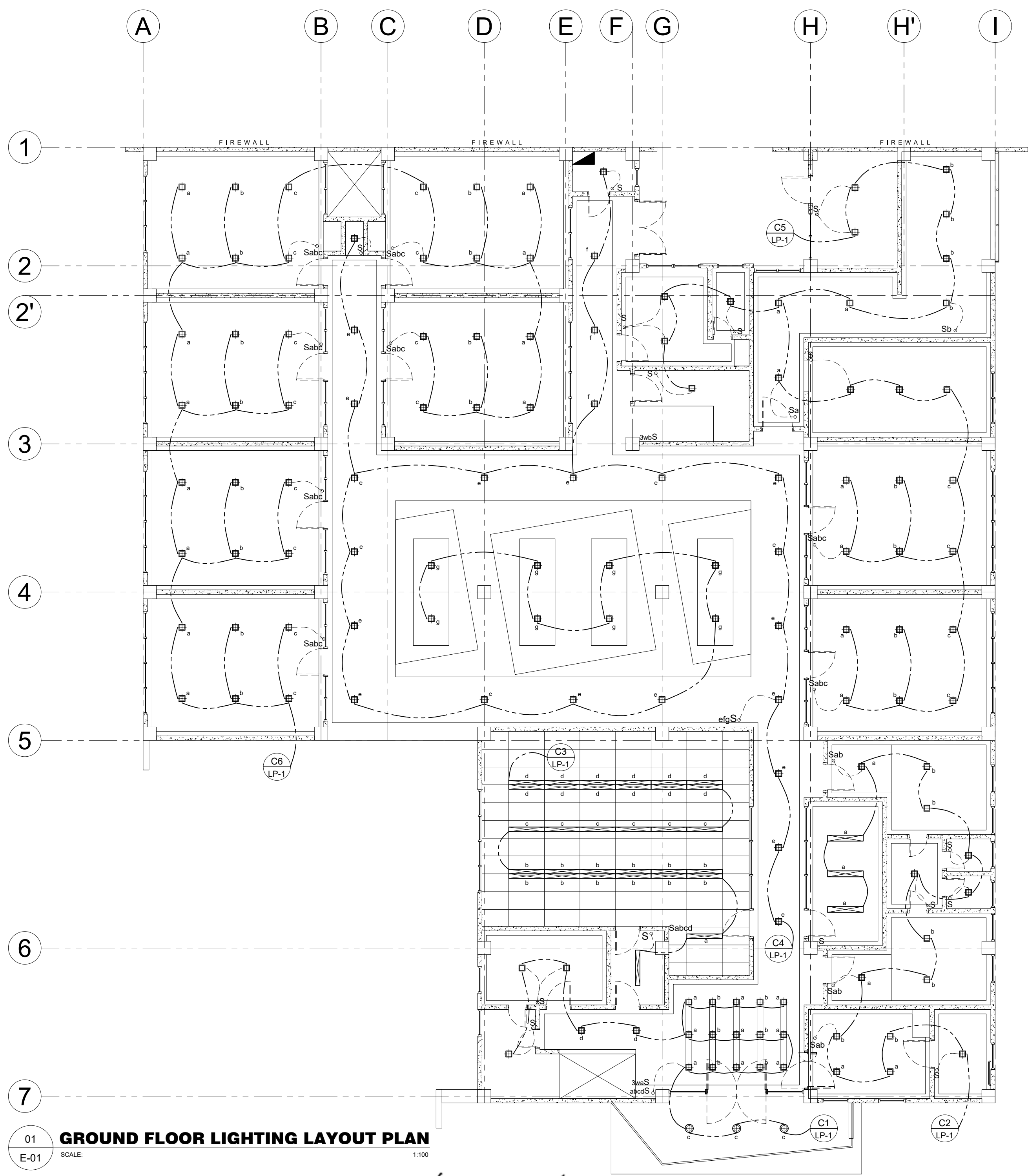
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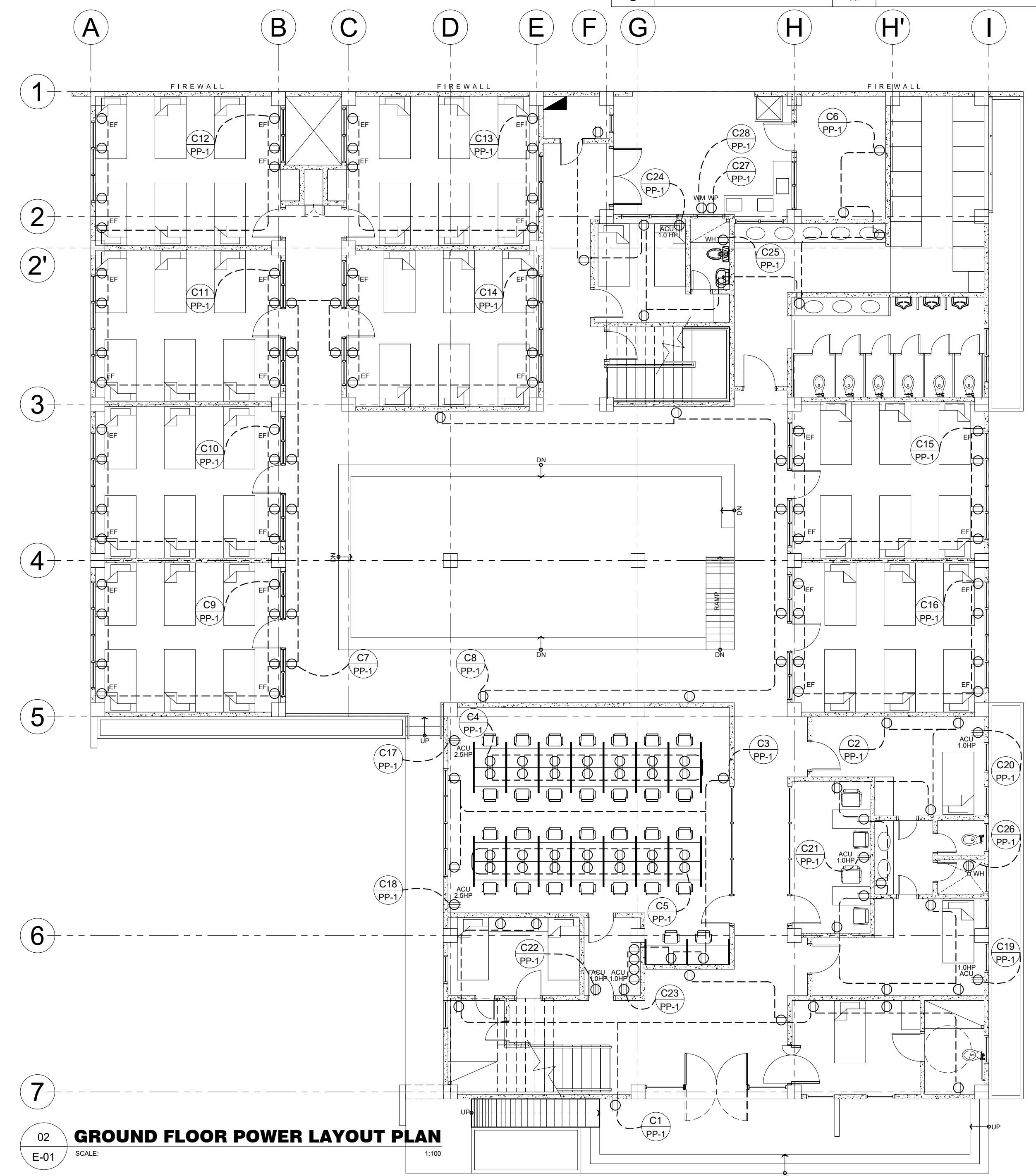
SHEET NO.
S-07
18 36

LEGEND :

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



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



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

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O.R. | DATE: 198031 | 27JULY17
PTR: 7805115
DATE ISS: 04 JAN 2018
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TIN: 123-875-856

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PRC Reg.No.: 2228 PTR No.: 6580750
TIN No.: 130-297-471 Date: 1/04/16 Iss.: GSC

PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING IV
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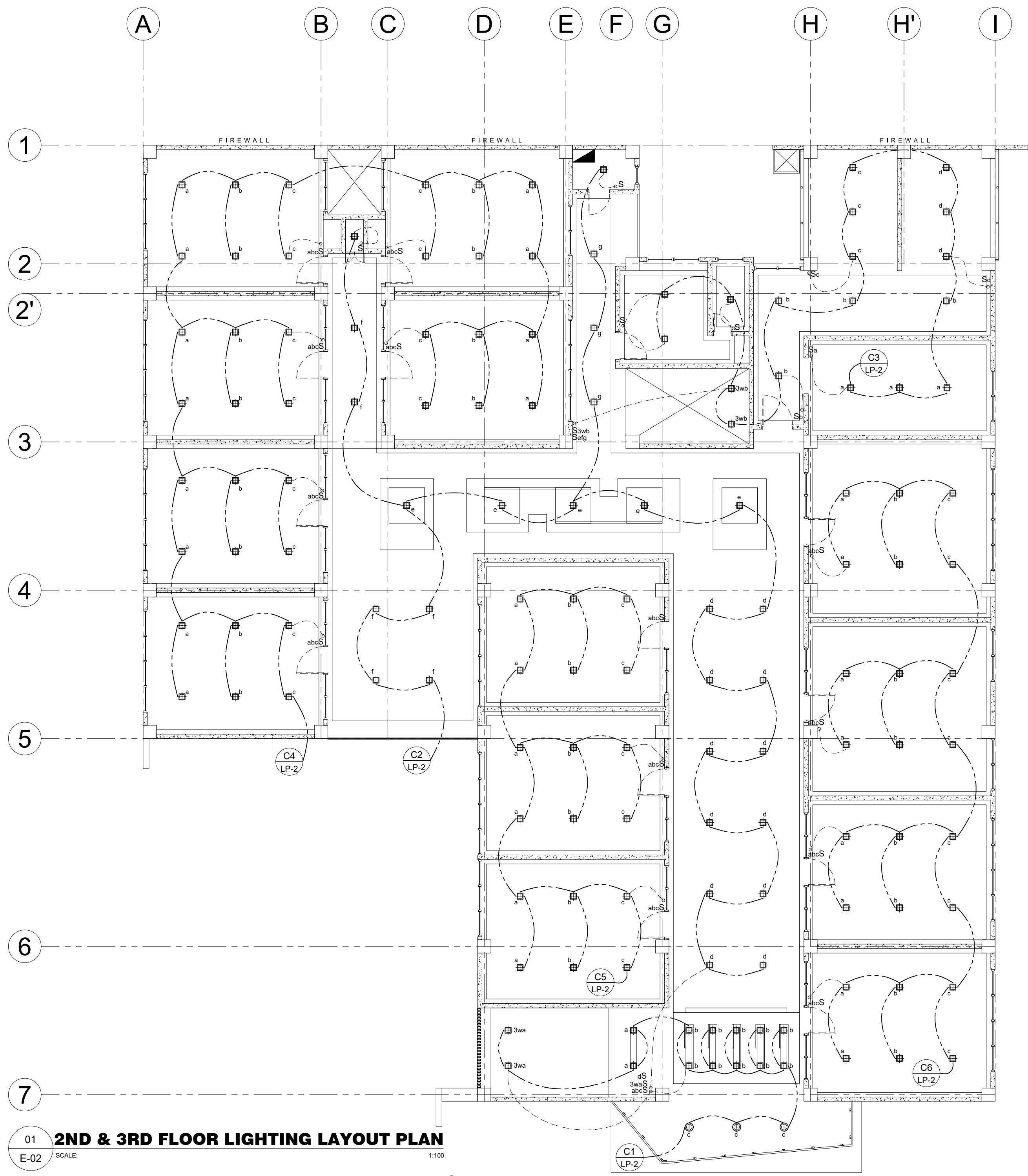
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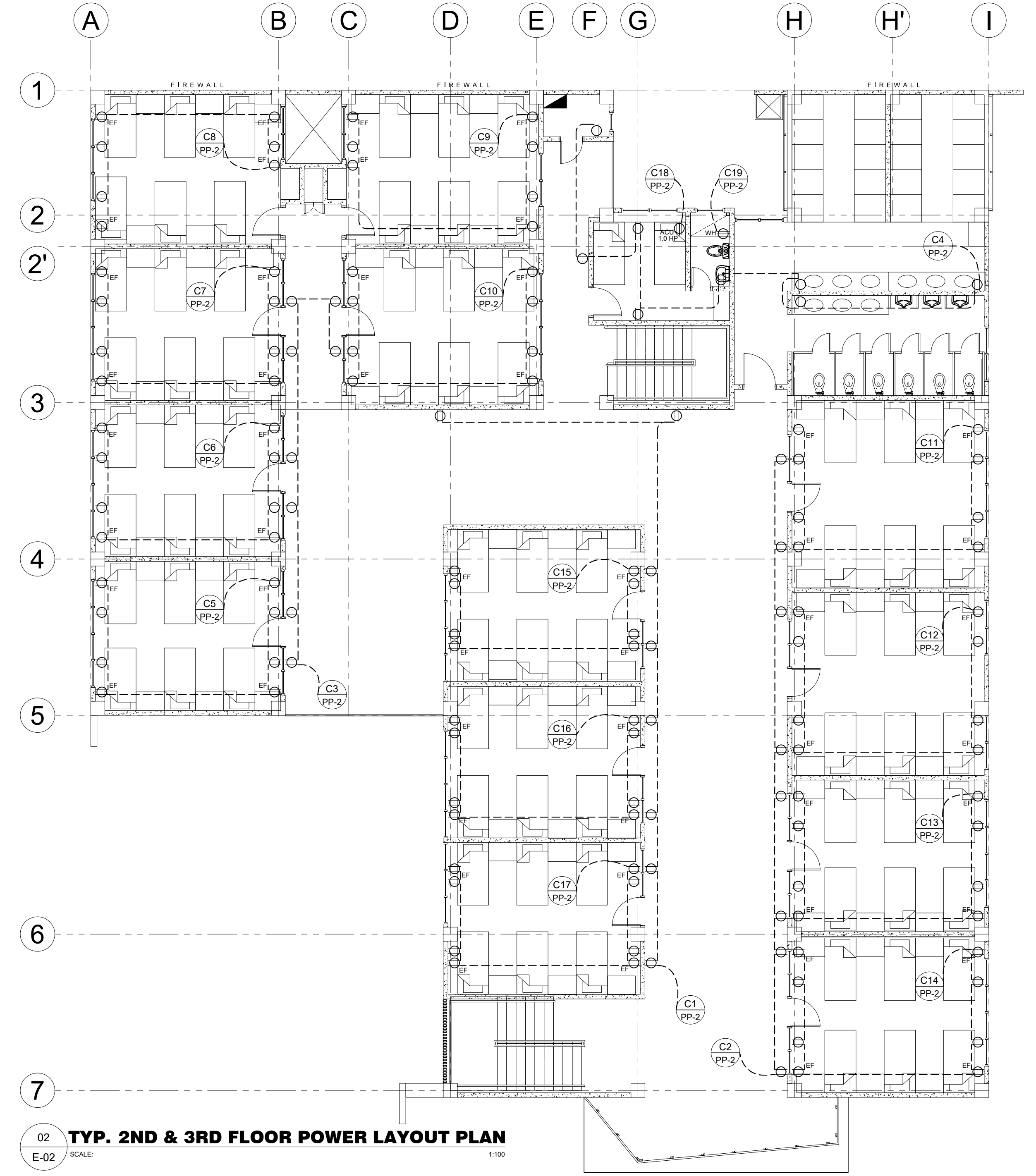
SHEET NO.
E-01
19 36

LEGEND :

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



01 **2ND & 3RD FLOOR LIGHTING LAYOUT PLAN**
E-02 SCALE: 1:100



02 **TYP. 2ND & 3RD FLOOR POWER LAYOUT PLAN**
E-02 SCALE: 1:100

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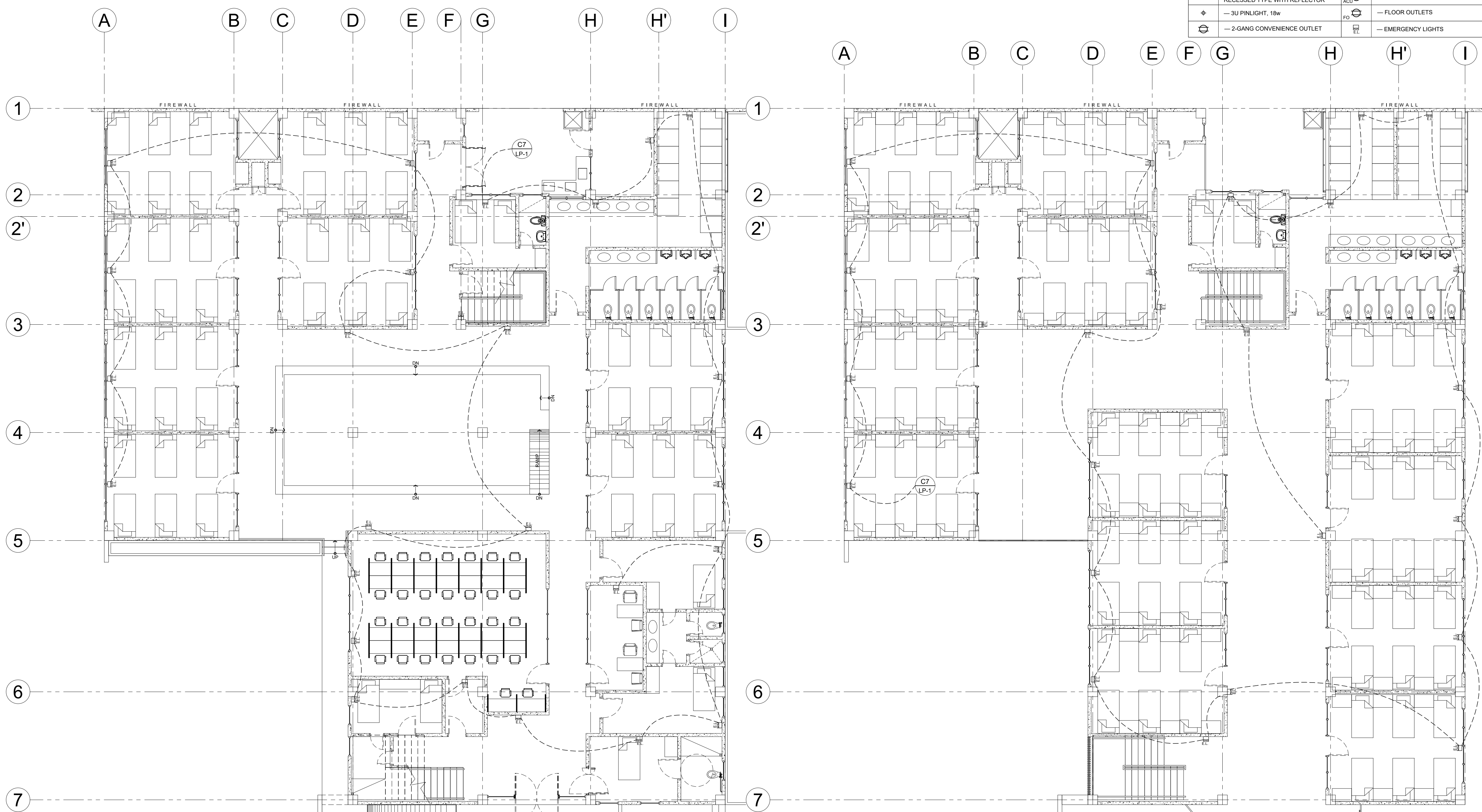
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JUNIOR ARCHITECT
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RESIDENT ENGINEER

SHEET NO.
E-02
20 36

LEGEND :

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



01 **GROUND FLOOR EMERGENCY LAYOUT PLAN**
E-03 SCALE: 1:100

02 **TYP. 2ND & 3RD FLOOR EMERGENCY LAYOUT PLAN**
E-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

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SHEET NO.
E-03
21 36

SCHEDULE OF LOADS & COMPUTATIONS (LP-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	S6	S7	S8	S9	AT					AF	POL E		
C1	LIGHTING	17			850W	3.86			2			1		1	2 - 3.5mm ² THHN WIRES / 1/2" O BSC	59.8	0.00506	1.1691	15	20	2	230	
C2	LIGHTING	28			1400W		6.36		1	3					2 - 3.5mm ² THHN WIRES / 1/2" O BSC	54.95	0.00506	1.7694	15	20	2	230	
C3	LIGHTING	17			850W	3.86			1			4			2 - 3.5mm ² THHN WIRES / 1/2" O BSC	51.25	0.00506	1.0019	15	20	2	230	
C4	LIGHTING	36			1800W	8.18			2		4				2 - 3.5mm ² THHN WIRES / 1/2" O BSC	95.33	0.00506	3.9467	15	20	2	230	
C5	LIGHTING	18			900W		4.09		6				1		2 - 3.5mm ² THHN WIRES / 1/2" O BSC	69.07	0.00506	1.4297	15	20	2	230	
C6	LIGHTING	24			1700W		7.73		6						2 - 3.5mm ² THHN WIRES / 1/2" O BSC	76.66	0.00324	1.9193	15	20	2	230	
C7	EMERGENCY LIGTHS	27			1350W		6.14								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	49.42	0.00506	1.5345	15	20	2	230	
C8	SPARE			1	1000W		4.55								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	96	0.00506	2.2080	15	20	2	230	
TOTAL		167	0	1	9850W	15.91	15.00	13.86	18	3	4	5	0	2	3 - 8.0mm² THHN WIRE IN 32mm. Ø RSC PIPE	3.00	0.03866	ZZ	60	75	3	230	

SIZE OF FEEDER:

≥ A [15.91 x √3

≥ 27.5545 AMPERES

USE: 3 - 8.0mm² THHN WIRE IN 32mm. Ø RSC PIPE

SCHEDULE OF LOADS & COMPUTATIONS (PP-1)

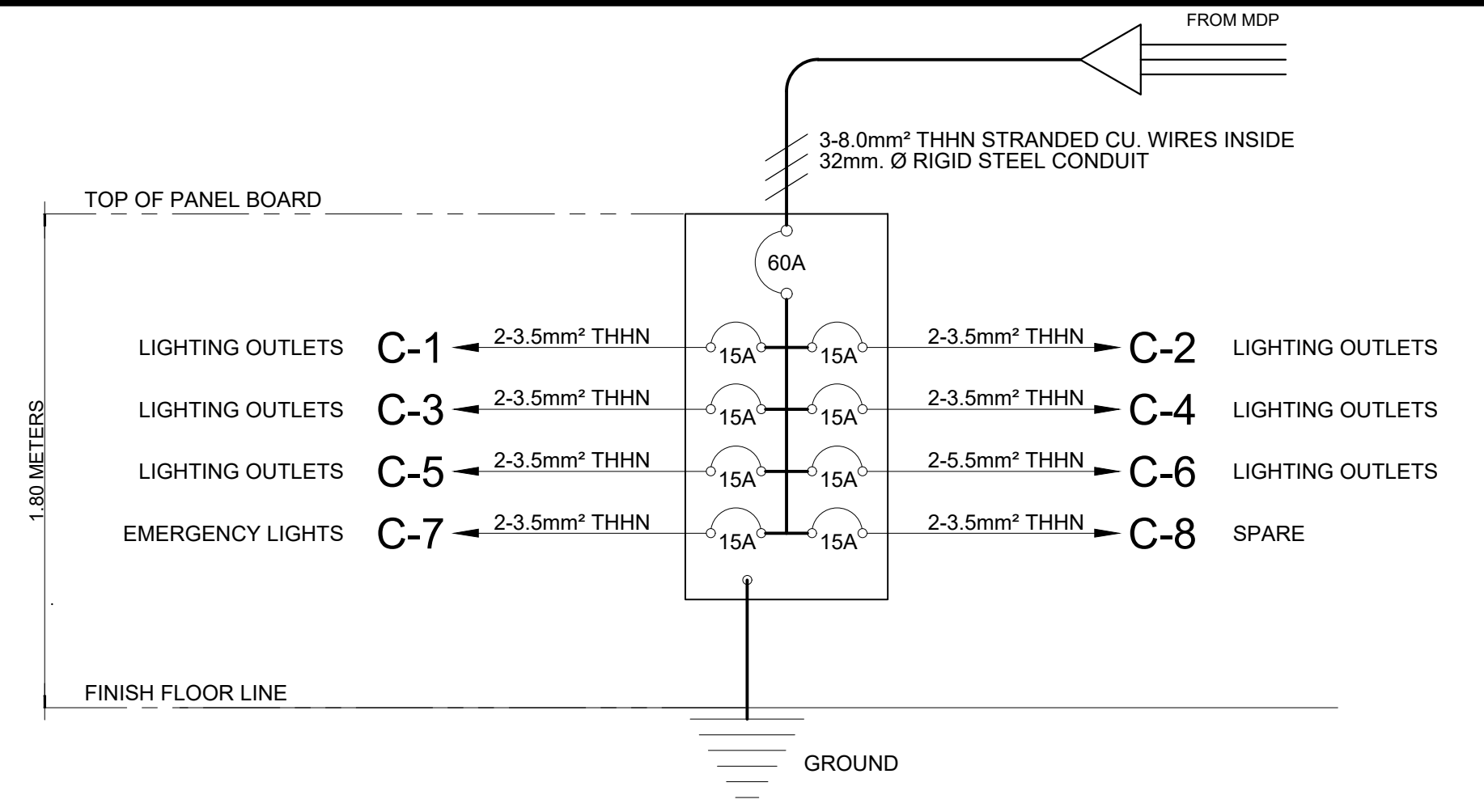
CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING WVA/HP	AMPERES			SWITCHES						SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTA GE
		L.O.	C.O.	OTHE RS		S1	S2	S3	S4	S5	S6	S7	S8	S9					AT	AF	POL E	
C1	CONVENIENCE OUTLET		9		1800W	8.18									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	57.11	0.00506	2.3644	20	30	2	230
C2	CONVENIENCE OUTLET		11		2200W		10.00								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	48.08	0.00506	2.4328	20	30	2	230
C3	CONVENIENCE OUTLET		9		1800W		8.18								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	39.86	0.00506	1.6502	20	30	2	230
C4	CONVENIENCE OUTLET		14		2800W	12.73									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	56.95	0.00506	3.6676	20	30	2	230
C5	CONVENIENCE OUTLET		14		2800W		12.73								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	58.98	0.00506	3.7983	20	30	2	230
C6	CONVENIENCE OUTLET		9		1800W		8.18								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	23.9	0.00506	0.9895	20	30	2	230
C7	CONVENIENCE OUTLET		8		1600W	7.27									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	25.03	0.00506	0.9211	20	30	2	230
C8	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	38.74	0.00506	1.4256	20	30	2	230
C9	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	30.29	0.00506	1.1147	20	30	2	230
C10	CONVENIENCE OUTLET		8		1600W	7.27									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	26.31	0.00506	0.9682	20	30	2	230
C11	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	23.14	0.00506	0.8516	20	30	2	230
C12	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	21.86	0.00506	0.8044	20	30	2	230
C13	CONVENIENCE OUTLET		8		1600W	7.27									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	13.69	0.00506	0.5038	20	30	2	230
C14	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	17.74	0.00506	0.6528	20	30	2	230
C15	CONVENIENCE OUTLET		8		1600W		7.27								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	25.19	0.00506	0.9270	20	30	2	230
C16	CONVENIENCE OUTLET		8		1600W	7.27									2 - 3.5mm ² THHN WIRES / 1/2" O BSC	29.43	0.00506	1.0830	20	30	2	230
C17	ACU OUTLET			1	2.5HP		14.00								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	20.4	0.00324	0.9253	30	45	2	230
C18	ACU OUTLET			1	2.5HP		14.00								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	25.47	0.00324	1.1553	30	45	2	230
C19	ACU OUTLET			1	HP	8.00									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	30.63	0.00324	0.7939	30	45	2	230
C20	ACU OUTLET			1	HP	8.00									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	23.88	0.00324	0.6190	30	45	2	230
C21	ACU OUTLET			1	HP		8.00								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	25.74	0.00324	0.6672	30	45	2	230
C22	ACU OUTLET			1	HP	8.00									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	28	0.00324	0.7258	30	45	2	230
C23	ACU OUTLET			1	HP	8.00									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	28.07	0.00324	0.7276	30	45	2	230
C24	ACU OUTLET			1	HP	8.00									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	4.95	0.00324	0.1283	30	45	2	230
C25	WATER HEATER			1	2500W	11.36									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	6.31	0.00324	0.2323	30	45	2	230
C26	WATER HEATER			1	2500W		11.36								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	27.36	0.00324	1.0073	30	45	2	230
C27	WATER PUMP			1	1.5HP		10.00								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	5.55	0.00324	0.1798	20	30	2	230
C28	WASHING MACHINE			1	1500W	6.82									2 - 5.5mm ² THHN WIRES / 3/4" O BSC	5.19	0.00324	0.1147	20	30	2	230
C29	SPARE			1	1000W		4.55								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	30	0.00324	0.4418	20	30	2	230
C30	SPARE			1	1000W		4.55								2 - 5.5mm ² THHN WIRES / 3/4" O BSC	30	0.00324	0.4418	20	30	2	230
TOTAL		0	146	14	37712.5W	84.18	85.91	87.27	0	0	0	0	0	0	3 - 50mm² THHN WIRE IN 63mm. Ø RSC PIPE	2.50	0.12632	ZZ	125	150	3	230

SIZE OF FEEDER:

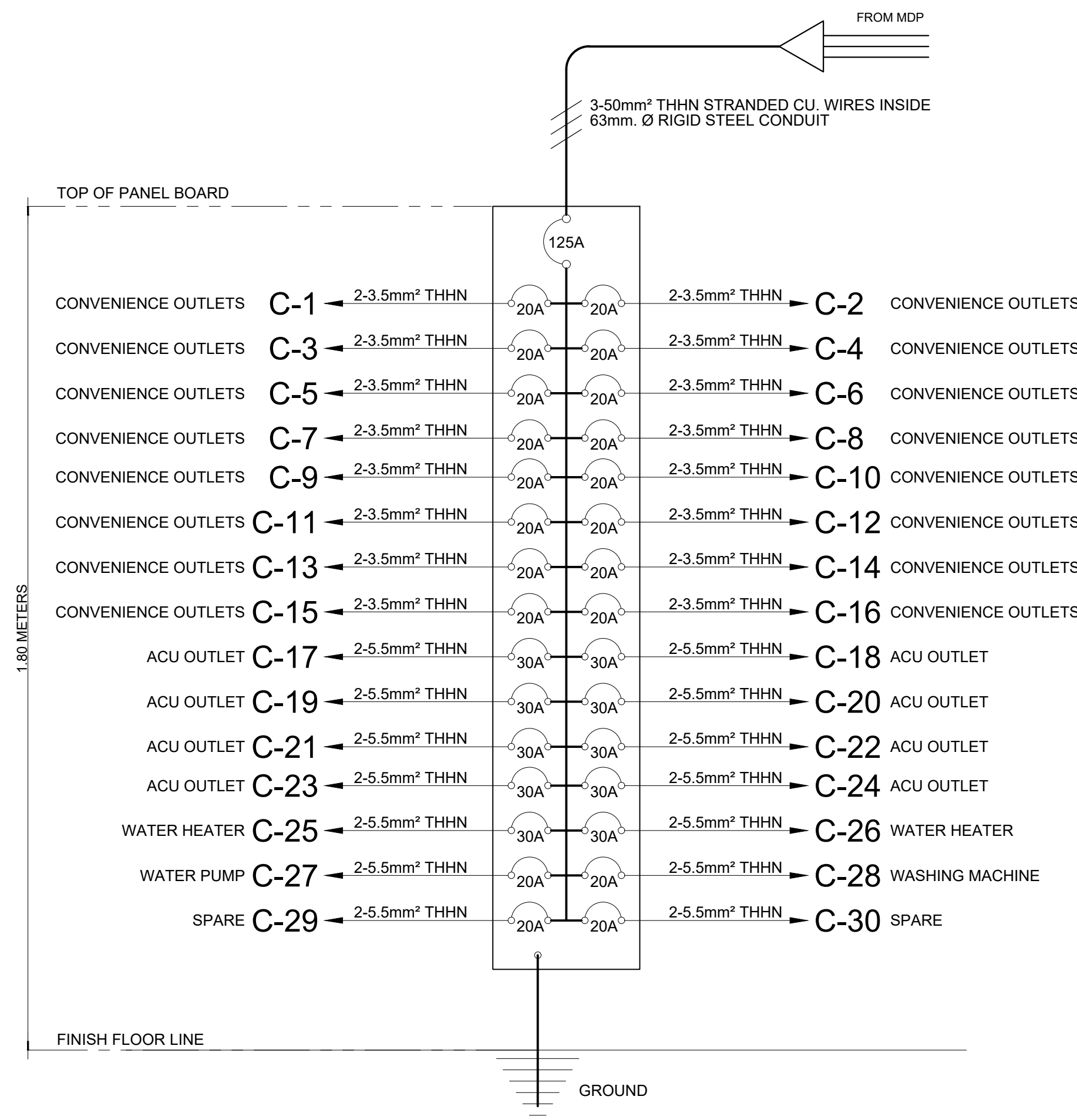
≥ A [87.27 x √3

≥ 151.156 AMPERES

USE: 3 - 50mm² THHN WIRE IN 63mm. Ø RSC PIPE



01 RISER DIAGRAM (LP-1)
E-04 NTS



02 RISER DIAGRAM (PP-1)
E-04 NTS

M.T. Ang
architectural designs
PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ 301-1917

Michael T. Ang
MICHAEL T. ANG, MAP
ARCHITECT

PRC:	8270
VALIDITY:	08 MAY 2018
IAPOA:	04440 198031 072717
O.R. DATE:	198031 27 JULY 17
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.

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 IV
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:
NELSON LEANDRO R. BRETANA, uap
JUNIOR ARCHITECT
CHECKED BY:

RESIDENT ENGINEER

SHEET NO.	
E-04	
22	36

SCHEDULE OF LOADS & COMPUTATIONS (LP-2,LP-3) 2ND & 3RD FLOOR

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.	OTHE RS		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10					AT	AF	POL E				
C1	LIGHTING	17			850W	3.86										1			2 - 3.5mm ² THHN WIRES / 1/2" O BSC	15.01	0.00506	0.2934	15	20	2	230
C2	LIGHTING	28			1400W		6.36			1	1							2 - 3.5mm ² THHN WIRES / 1/2" O BSC	70.10	0.00506	2.2572	15	20	2	230	
C3	LIGHTING	17			850W	3.86				5								2 - 3.5mm ² THHN WIRES / 1/2" O BSC	30.91	0.00506	0.6043	15	20	2	230	
C4	LIGHTING	36			1800W	8.18					6							2 - 3.5mm ² THHN WIRES / 1/2" O BSC	56.95	0.00506	2.3577	15	20	2	230	
C5	LIGHTING	18			900W		4.09				3							2 - 3.5mm ² THHN WIRES / 1/2" O BSC	17.36	0.00506	0.3594	15	20	2	230	
C6	LIGHTING	24			1700W		7.73				4							2 - 3.5mm ² THHN WIRES / 1/2" O BSC	10.49	0.00324	0.2626	15	20	2	230	
C7	EMERGENCY LIGTHS	25			1250W		5.68											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	49.42	0.00506	1.4208	15	20	2	230	
C8	SPARE			1	1000W		4.55											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	30.04	0.00506	0.6909	15	20	2	230	
TOTAL		165	0	1	9750W	15.91	15.00	13.41	6	0	15	0	0	0	2			3 - 8.0mm² THHN WIRE IN 32mm. Ø RSC PIPE	3.00	0.03866	zz	60	75	3	230	

SIZE OF FEEDER:

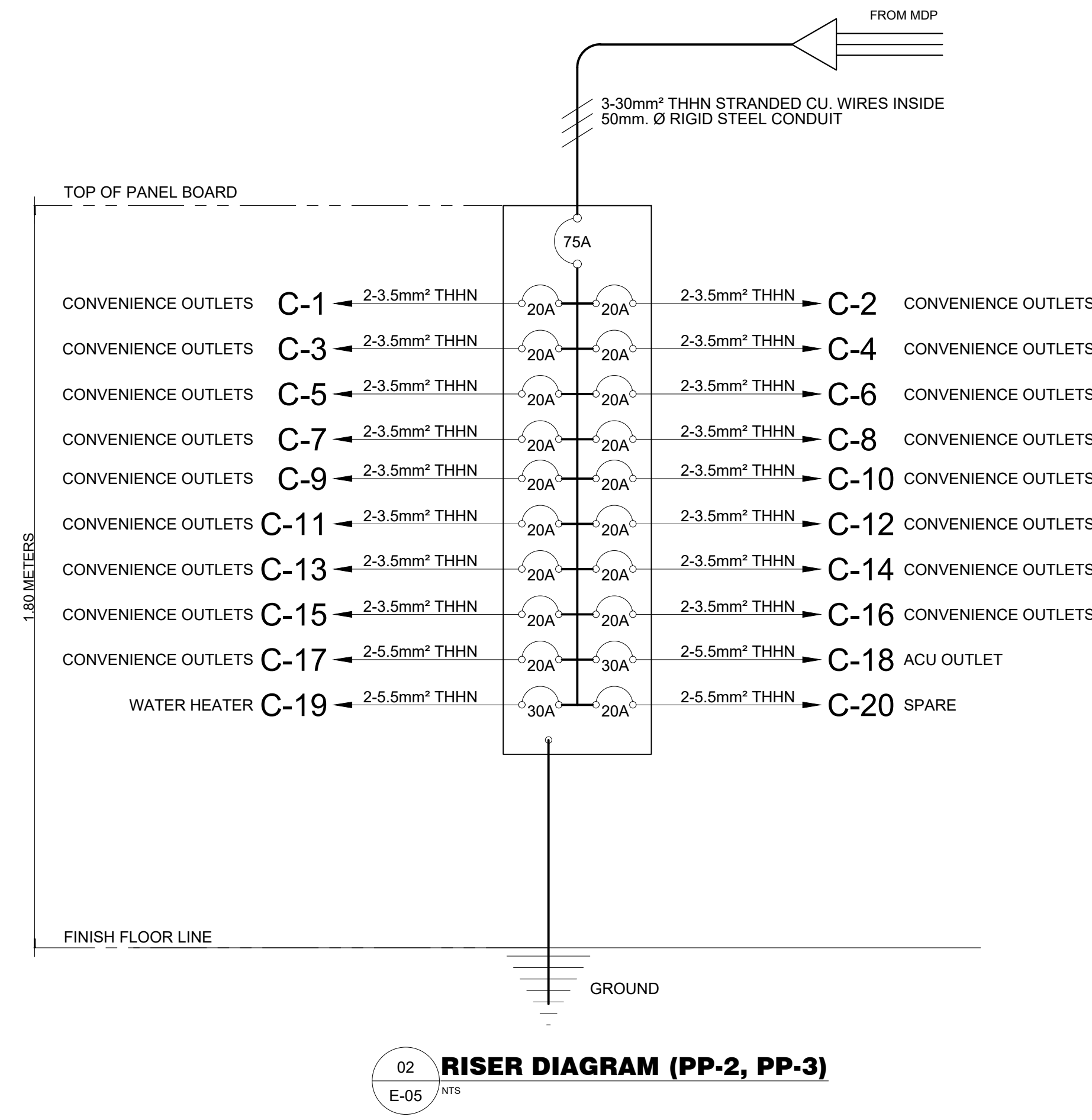
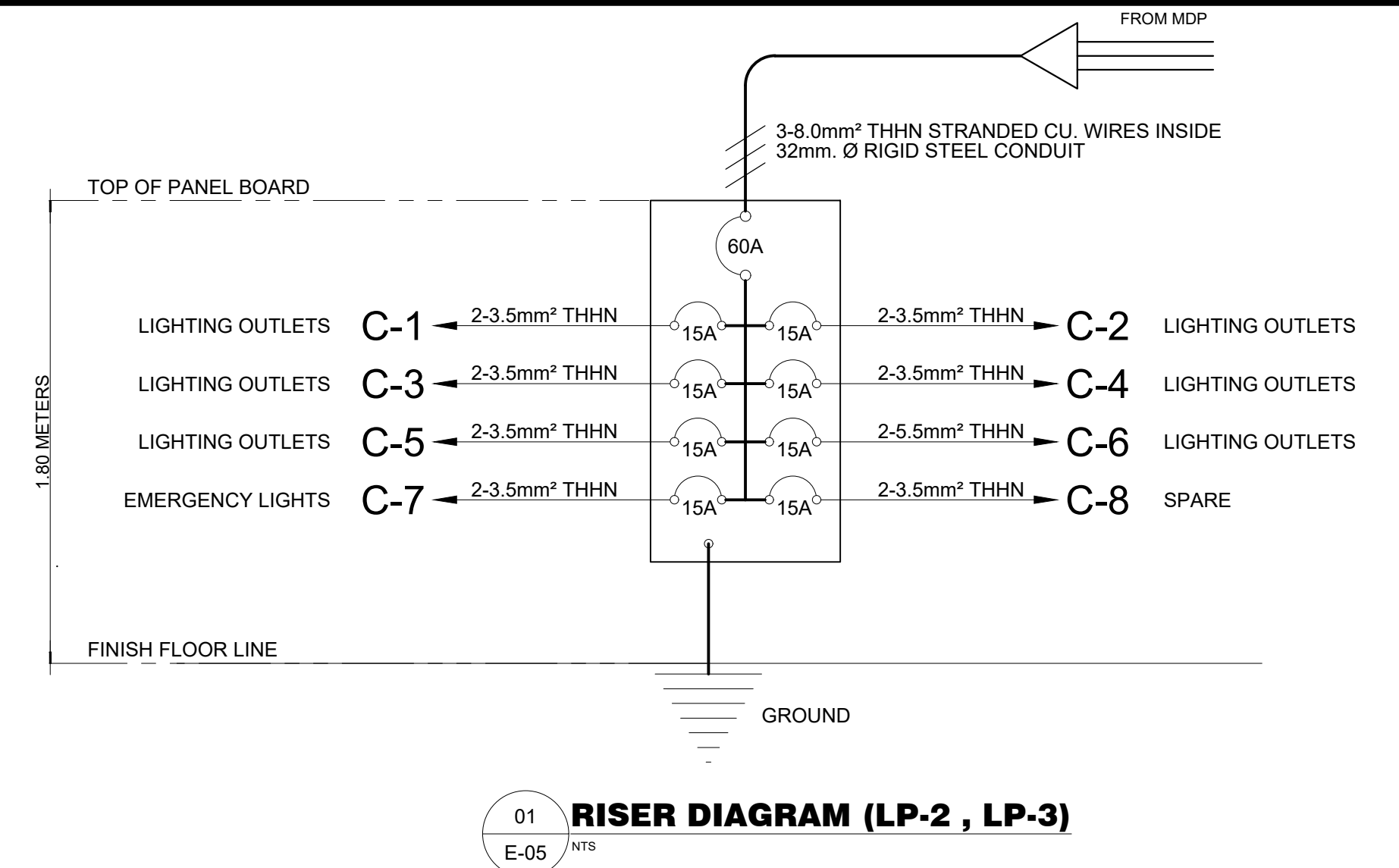
$\geq A [15.91 \times \sqrt{3}$
 ≥ 27.5545 AMPERES
USE: 3 - 8.0mm² THHN WIRE IN 32mm. Ø RSC PIPE

SCHEDULE OF LOADS & COMPUTATIONS (PP-2,PP-3) 2ND & 3RD FLOOR

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.	OTHE RS		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10					AT	AF	POL E			
C1	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	34.9	0.00506	1.2843	20	30	2	230
C2	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	32.54	0.00506	1.1975	20	30	2	230
C3	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	25.1	0.00506	0.9237	20	30	2	230
C4	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	24.42	0.00506	0.8987	20	30	2	230
C5	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	30.27	0.00506	1.1139	20	30	2	230
C6	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	26.34	0.00506	0.9693	20	30	2	230
C7	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	23.26	0.00506	0.0000	20	30	2	230
C8	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	21.96	0.00506	0.8081	20	30	2	230
C9	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	13.73	0.00506	0.5053	20	30	2	230
C10	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	17.72	0.00506	0.6521	20	30	2	230
C11	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	25.35	0.00506	0.9329	20	30	2	230
C12	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	31.09	0.00506	1.1441	20	30	2	230
C13	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	35.99	0.00506	1.3244	20	30	2	230
C14	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	40.76	0.00506	1.5000	20	30	2	230
C15	CONVENIENCE OUTLET		8		1600W		7.27											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	25.52	0.00506	0.9391	20	30	2	230
C16	CONVENIENCE OUTLET		8		1600W	7.27												2 - 3.5mm ² THHN WIRES / 1/2" O BSC	30.8	0.00506	1.1334	20	30	2	230
C17	CONVENIENCE OUTLET		8		1600W		14.00											2 - 3.5mm ² THHN WIRES / 1/2" O BSC	35.5	0.00506	2.5148	20	30	2	230
C18	ACU OUTLET			1	1.5HP		10.00											2 - 5.5mm ² THHN WIRES / 1/2" O BSC	5.34	0.00324	0.1730	30	45	2	230
C19	WATER HEATER			1	2500W		11.36											2 - 5.5mm ² THHN WIRES / 1/2" O BSC	6.26	0.00324	0.2305	30	45	2	230
C20	SPARE			1	HP		8.00											2 - 5.5mm ² THHN WIRES / 1/2" O BSC	30	0.00324	0.7776	20	30	2	230
TOTAL		0	136	3	29702.5W	55.00	50.36	54.36	0	0	0	0	0	0	0			3 - 30mm² THHN WIRE IN 50mm. Ø RSC PIPE	2.50	0.09574	zz	75	100	3	230

SIZE OF FEEDER:

$\geq A [55.00 \times \sqrt{3}$
 ≥ 95.26 AMPERES
USE: 3 - 30mm² THHN WIRE IN 50mm. Ø RSC PIPE



M.T. Ang
 architectural designs
 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ 301-1917

Michael T. Ang
MICHAEL T. ANG, uap
 ARCHITECT

PRC: 8270
 VALIDITY: 08 MAY 2018
 IAPOA: 04440 198031 072717
 O.R. | DATE: 198031 | 27JULY17
 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.: 6580750
 TIN No.: 130-297-471 Date: 1/04/16 Iss.: GSC

PROPOSED DORMITORY BUILDING IV
 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:
NELSON LEANDRO R. BRETANA, uap
 JUNIOR ARCHITECT
CHECKED BY:

 RESIDENT ENGINEER

SHEET NO.
 E-05
 23 36

SCHEDULE OF LOADS & COMPUTATIONS FOR MDP

PANEL DESCRIPTION	AMPERES	CIRCUIT PROTECTION			VOLTAGE
		AT	AF	POLE	
LP-1	27.55	60	75	3	230
PP-1	151.16	125	150	3	230
LP-2	27.55	225	250	3	230
PP-2	95.26	150	175	3	230
LP-3	27.55	60	75	3	230
PP-3	95.26	150	175	3	230
TOTAL	424.34				

SIZE OF MAIN SERVICE ENTRANCE:
 $I = \sqrt{3} (LP1 + PP1 + LP2 + PP2 + LP3 + PP3)$
 $= \sqrt{3} (27.55 + 151.16 + 27.55 + 95.26 + 27.55 + 95.26)$
 $= 424.34 \text{ A}$

USE: - 2 SETS 3 - 125mm² THHN STRANDED WIRES IN 100mm. Ø RSC

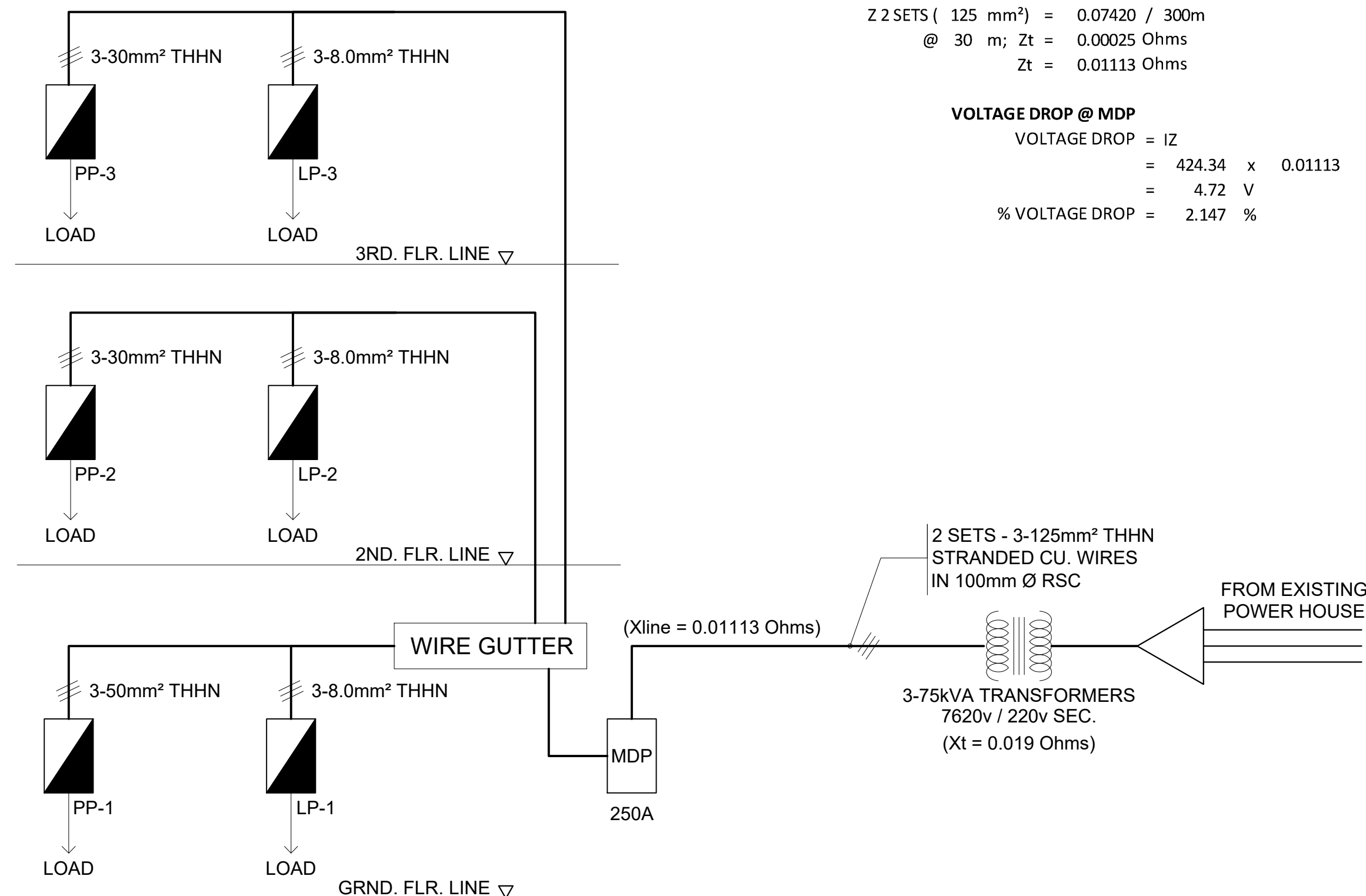
- 450 AMPERES, 3P, 250v, MAIN DISCONNECTION SWITCH

FOR TRANSFORMER CAPACITY:

$$\geq \frac{\sqrt{3} (424.34 \times 220)}{1000}$$

≥ 162 kVA USE: 3 - 75 kVA DISTRIBUTION TRANSFORMER

USE: 1 - 200 Kw GENSET
 CPS, 230v 30% POWER



01 **SCHEMATIC DIAGRAM**
 E-06 NTS

Transformer Capacity:

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

$$= \frac{424.34 \times 220 \times \sqrt{3}}{1000}$$

= 161.6905 kVA

USE: 3 - 75 kVA TRANSFORMER
 7620v / 220v SEC.

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

I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$

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

$$I_{sc} = \frac{590.49 \text{ Amps}}{0.019 + 0.01113}$$

I_{sc} = 19,598.05 A (RMS)

VOLTAGE DROP @ PANEL BOARD

USE: 3 - 75 kVA DISTRIBUTION TRANSFORMER
 DIST. FROM TAPPING POLE TO PANELS: ± 30 meters
 MAIN = 424.34 Amps

(FROM TABLE SYCWIN ELECTRIC WIRES AND CABLES)

Z 2 SETS (125 mm²) = 0.07420 / 300m
 @ 30 m; Zt = 0.00025 Ohms
 Zt = 0.01113 Ohms

VOLTAGE DROP @ MDP

VOLTAGE DROP = IZ
 $= 424.34 \times 0.01113$
 $= 4.72 \text{ V}$
 % VOLTAGE DROP = 2.147 %

@ PANEL BOARD (LP-1)
 DIST. FROM TAPPING POLE TO PANEL: ±3.00m.
 Z (8.0 mm²) = 0.515 / 300m
 Z @ 3m. = 0.0172 OhmS
 Z = 0.01545 Ohms

VOLTAGE DROP @ LP-1
 VOLTAGE DROP = IZ
 $= 27.55 \times 0.01545$
 $= 0.426 \text{ V}$
 % VOLTAGE DROP = 0.194%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.01545}{0.019 + 0.01113 + 0.01545}$
 $I_{sc1} = 12,955.024 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 22 KAIC

@ PANEL BOARD (PP-1)
 DIST. FROM TAPPING POLE TO PANEL: ±4.00m.
 Z (50.0 mm²) = 0.139 / 300m
 Z @ 4m. = 0.00046 Ohms
 Z = 0.00556 Ohms

VOLTAGE DROP @ PP-1
 VOLTAGE DROP = IZ
 $= 151.156 \times 0.00556$
 $= 0.84 \text{ V}$
 % VOLTAGE DROP = 0.38%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.00556}{0.019 + 0.01113 + 0.00556}$
 $I_{sc2} = 16,544.971 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 22 KAIC

@ PANEL BOARD (LP-2)
 DIST. FROM TAPPING POLE TO PANEL: ±6.00m.
 Z (8.0 mm²) = 0.515 / 300m
 Z @ 6m. = 0.00172 OhmS
 Z = 0.0309 Ohms

VOLTAGE DROP @ LP-2
 VOLTAGE DROP = IZ
 $= 27.55 \times 0.0309$
 $= 0.85 \text{ V}$
 % VOLTAGE DROP = 0.39%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.0309}{0.019 + 0.01113 + 0.0309}$
 $I_{sc3} = 9,675.405 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 10 KAIC

@ PANEL BOARD (PP-2)
 DIST. FROM TAPPING POLE TO PANEL: ±7.00m.
 Z (30.0 mm²) = 0.21 / 300m
 Z @ 7m. = 0.0007 Ohms
 Z = 0.0147 Ohms

VOLTAGE DROP @ PP-2
 VOLTAGE DROP = IZ
 $= 95.26 \times 0.0147$
 $= 1.4 \text{ V}$
 % VOLTAGE DROP = 0.63%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.0147}{0.019 + 0.01113 + 0.0147}$
 $I_{sc4} = 13,171.76 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 22 KAIC

@ PANEL BOARD (LP-3)
 DIST. FROM TAPPING POLE TO PANEL: ±9.00m.
 Z (8.0 mm²) = 0.515 / 300m
 Z @ 9m. = 0.00171 OhmS
 Z = 0.04635 Ohms

VOLTAGE DROP @ LP-3
 VOLTAGE DROP = IZ
 $= 27.55 \times 0.04635$
 $= 1.27 \text{ V}$
 % VOLTAGE DROP = 0.577%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.04635}{0.019 + 0.01113 + 0.04635}$
 $I_{sc5} = 7,720.842 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 10 KAIC

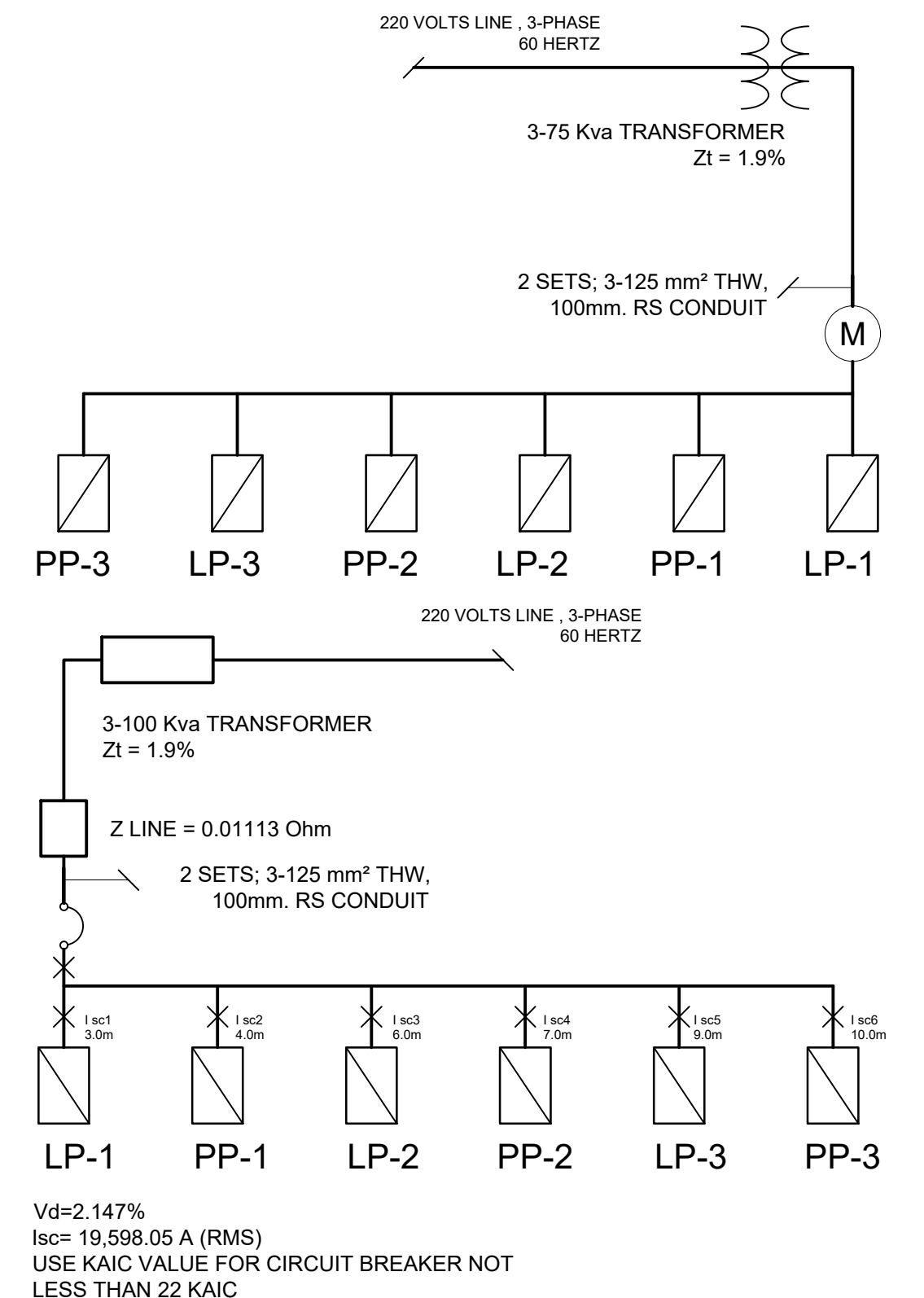
@ PANEL BOARD (PP-4)
 DIST. FROM TAPPING POLE TO PANEL: ±10.00m.
 Z (30.0 mm²) = 0.21 / 300m
 Z @ 10m. = 0.0007 Ohms
 Z = 0.021 Ohms

VOLTAGE DROP @ PP-4
 VOLTAGE DROP = IZ
 $= 95.26 \times 0.021$
 $= 2.0 \text{ V}$
 % VOLTAGE DROP = 0.90%

$I_{sc} = \frac{I_{sec}}{Z}$
 I_{sc} = SHORT CIRCUIT CURRENT (SYMMETRICAL)
 Z = TOTAL IMPEDANCE
 $= X_t + X_{line}$
 $I_{sc} = \frac{Kva \times 1000}{1.732 \times 220v}$
 $I_{sc} = 590.49 \text{ Amps}$
 $\frac{0.019 + 0.01113 + 0.021}{0.019 + 0.01113 + 0.021}$
 $I_{sc6} = 11,548.797 \text{ A (RMS)}$
 USE: KAIC VALUE NOT LESS THAN 22 KAIC

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

MICHAEL T. ANG, uap
 ARCHITECT

PRC:	8270
VALIDITY:	08 MAY 2018
IAPOA:	04440 198031 072717
O.R. DATE:	198031 27JULY17
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.

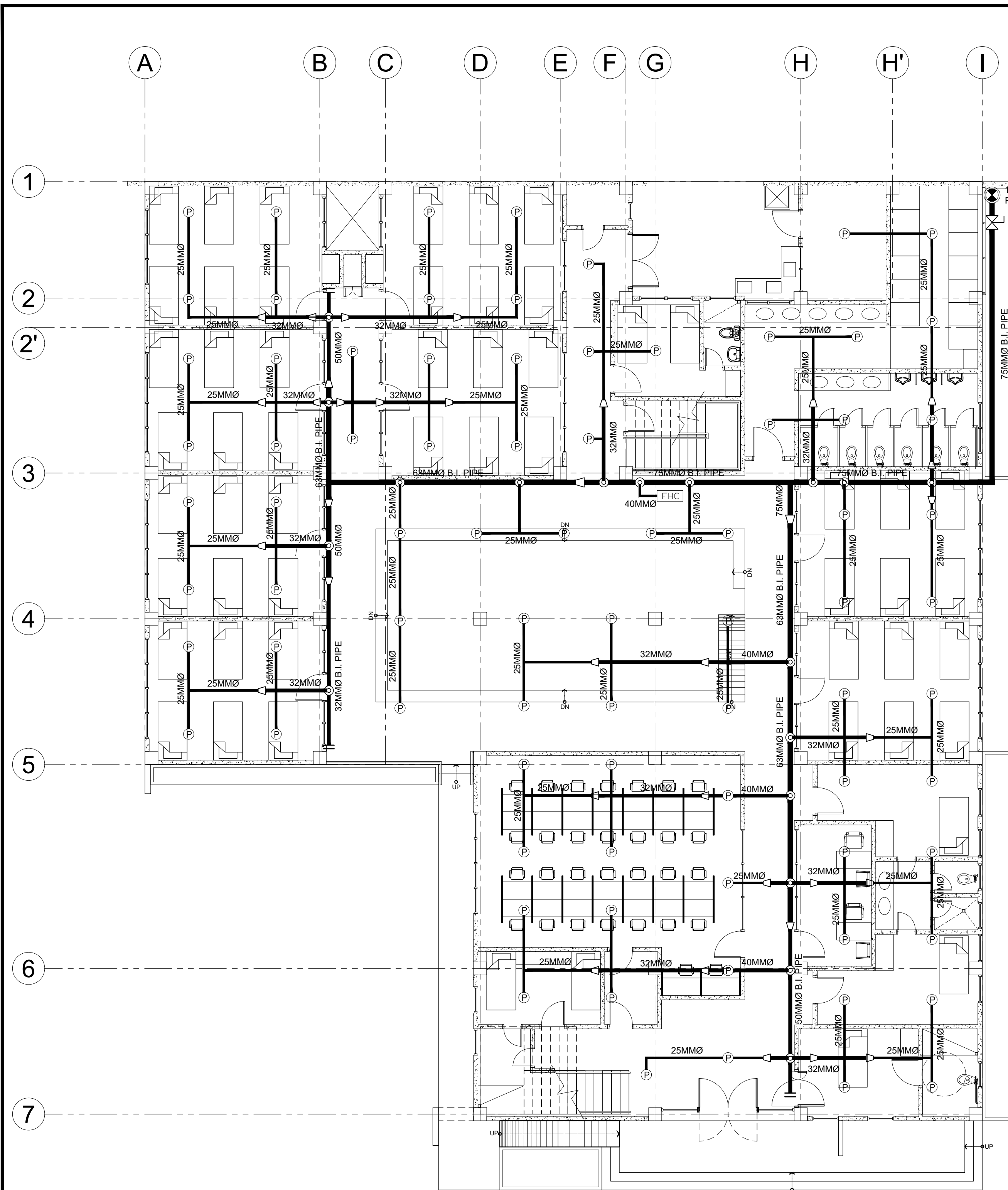
FERNANDO G. OCAT
 PROF. ELECTRICAL ENGINEER
 PRC Reg.No.: 2228 PTR No.: 6580750
 T I N No.: 130-297-471 Date: 1/04/16 Iss.: GSC

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

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

NELSON LEANDRO R. BREAÑA, uap
 JUNIOR ARCHITECT
 CHECKED BY: ---
 RESIDENT ENGINEER

SHEET NO.	
E-06	
24	36



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

01 **TYP. SECOND & THIRD FLOOR FIRE PROTECTION LAYOUT PLAN**
M-01 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
MICHAEL T. ANG, fup
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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 IV
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

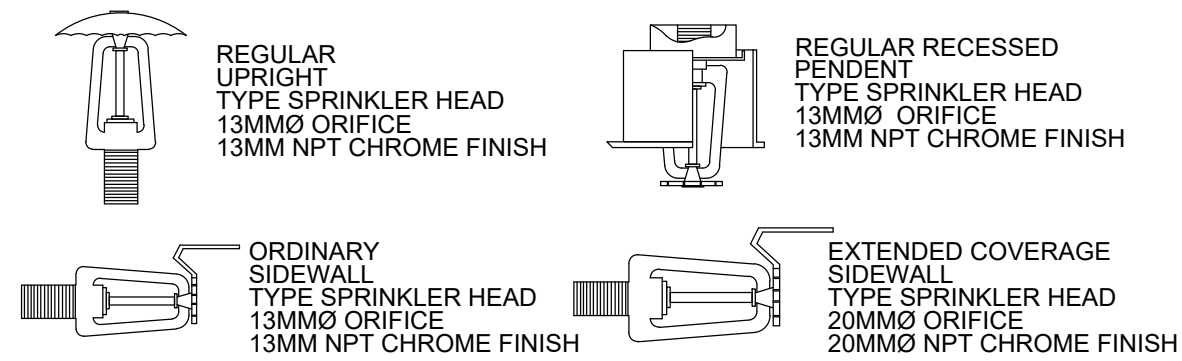
PREPARED BY:
NELSON LEANDRO R. BREAÑA, uap
JUNIOR ARCHITECT
CHECKED BY:

RESIDENT ENGINEER

SHEET NO.
M-01
25 36

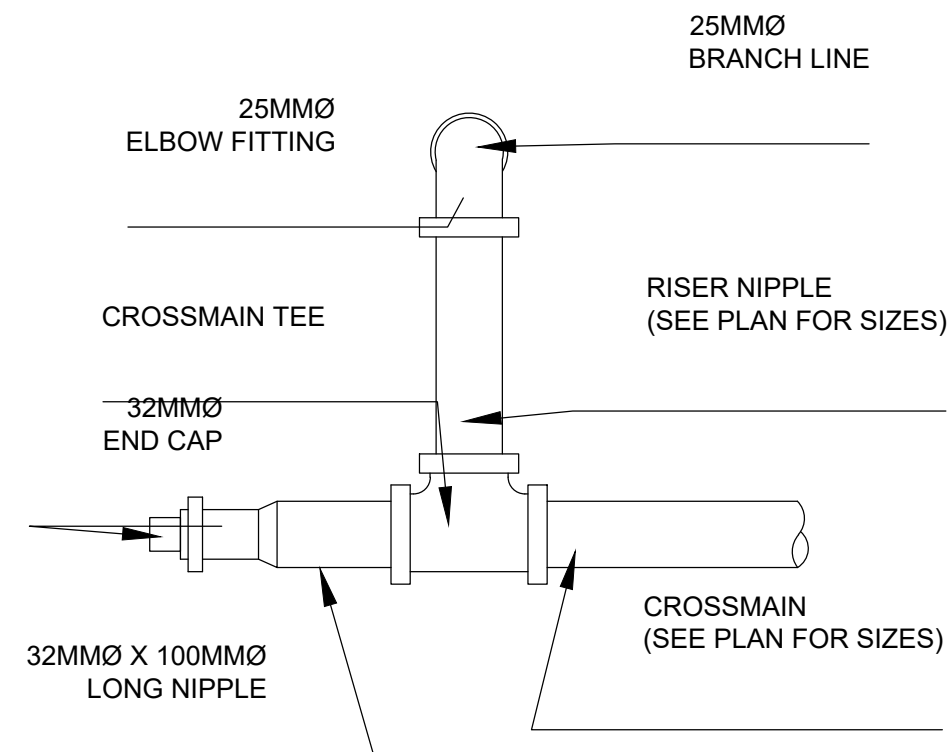
GENERAL NOTES & SPECIFICATIONS:

- ALL FIRE PROTECTION WORKS SHALL CONFORM WITH THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES, THE PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS (PSME) CODES AND STANDARDS, THE RULES & REGULATIONS OF THE LOCAL ENFORCING AUTHORITY OF THE LOCAL GOVERNMENT.
- THE CONTRACTOR SHALL BE I.S.O. CERTIFIED COMPANY WITH TECHNICAL EXPERTISE, AND PAST SIMILAR PROJECTS UNDERTAKEN AND SPECIALIZED IN WET-PIPE SPRINKLER SYSTEM DESIGN AND INSTALLATION DETERMINED AND APPROVED BY THE OWNER AND/OR ARCHITECT.
- CONSTRUCT AND INSTALL WET-PIPE SPRINKLER BASED ON PLANS, NOTES AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE SITE PRIOR TO INSTALLATION, SHALL COORDINATE WITH OTHER TRADE AND AT ALL TIMES SHALL OBSERVE SAFETY AND ORDERLINESS ON SITE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF SPRINKLERS IN ACCORDANCE WITH ARCHITECTURAL CEILING PLAN. ANY DEVIATION OR RELOCATION SHALL BE SUBJECT TO ARCHITECT AND ENGINEER'S APPROVAL.
- ALL B.I. PIPES FOR MAIN & BRANCH LINES WITH ADEQUATE HANGERS SHALL BE HYDROSTATICALLY TESTED AT MINIMUM 150 PSI FOR A DURATION OF TWO (2) HOURS AND SHOULD BE WITNESSED AND CERTIFIED BY ENGINEER OR HIS REPRESENTATIVE.
- ALL SPRINKLER HEADS IN ROOMS OR SPACES WITH CEILING SHALL BE RECESSED PENDENT TYPE COMPLETE WITH ESCUTHEON PLATE, 3" ORIFICE, AND RATED AT 155 DEG.F. EXCEPT FOR THE KITCHEN AT 235 DEG.F. THE SAME SPECIFICATIONS WITH HORIZONTAL SIDE WALLS SPRINKLER HEADS, 3" ORIFICE, RATED AT 135 DEG.F. WITH ESCUTHEON PLATE AND DEFLECTOR, MODEL F950,F948 OR ITS EQUIVALENT FOR BOTH TYPES.
- ALL PIPE MATERIALS SHALL BE BLACK IRON (B.I.) PIPE SCH.40, ASTM A53, NEW AND CLEAN INCLUDING BRACKETS, SUPPORTS AND HANGERS. THE SAME SHALL BE PRIMER PAINTED AND PIPES SHALL BE PAINTED WITH RED COLOR CODE.
- IT IS NOT INTENDED THAT THIS DRAWINGS SHALL SHOW ALL THE DETAILS OF THE ENTIRE SYSTEM AND THEREFORE, ANY ITEMS 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.
- CONTRACTOR SHALL SUBMIT WARRANTY CERTIFICATE UPON COMPLETION OF THE PROJECT AFTER TESTING, COMMISSIONING AND FULL ACCEPTANCE BY THE OWNER AND/OR THE ARCHITECT.
- CONTRACTOR SHALL BE REQUIRED TO SUBMIT SHOP DRAWINGS PRIOR TO IMPLEMENTATION AND SHALL SUBMIT AS-BUILT PLANS AFTER COMPLETION DULY SIGNED AND SEALED BY A PROF. MECHANICAL ENGINEER (PME).
- ALL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY QUALIFIED & COMPETENT MECHANICAL ENGINEER.
- ALL PIPES SHALL BE PLUMB, PARALLEL TO THE BUILDING, AND ANCHORED AT A MAXIMUM DISTANCE OF 2.0 METERS WHILE, LINE PIPE HANGERS AND SUPPORTS AT CROSS MAIN AND BRANCHLINE PIPES SHALL BE INSTALLED @ 1.5 METERS APART.
- MINIMUM PIPE SIZE FOR ALL SPRINKLERS SHALL BE 25mm DIAMETER, UNLESS OTHERWISE NOTED.
- MAXIMUM INTERVAL BETWEEN PENDENT TYPE SPRINKLER HEADS SHALL BE 3.0m., WHILE SPRINKLER HEADS AND WALL IT SHALL BE 1.5m. MAXIMUM.
- HORIZONTAL SIDE WALL SPRINKLER HEADS SHALL BE INSTALLED WITH AN INTERVAL OF 2.0m. BETWEEN HEADS AT THE ATRIUM.
- MINIMUM DISTANCE BETWEEN SPRINKLER HEAD AND DIFFUSER OR ANY UTILITY (ELECTRICAL/MECHANICAL) SHALL BE 0.30m (300mm).
- PROVIDE SPRINKLER HEADS IN ALL ENCLOSED AREAS EXCEPT IN I.T. ROOM, POWER ROOM, LABORATORY AND RADIOLOGY ON SELECTED AREAS (REFER LAY-OUT PLANS).
- INSTALL 3" SWING CHECK VALVE (BUTTERFLY-STYLE) AND A 3" OUTSIDE SCREW & YOLK (OS&Y) GATE VALVE IN EVERY FLOOR LOOP OF WET-PIPE SPRINKLER SYSTEM.
- INSTALL 2 1/2" SWING CHECK VALVE (BUTTERFLY-STYLE) EVERY SIAMSE CONNECTION OF A WET-PIPE HYDRANT SYSTEM.
- ALL CONNECTIONS ON PIPELINES SHALL BE THREADED TYPE FOR 1in. & 1 1/2" PIPE DIA., WELDED TYPE FOR 2 1/2", 3" & 4" PIPE DIA. AND FLANGED TYPE CONNECTION FROM PIPE TO PUMPS, VALVES AND ACCESSORIES.
- ALL PROVISION FOR CONNECTIONS FROM FIRE DEPARTMENT/OTHER SOURCE AND TOWARDS FIRE HOSE CABINET INCLUDING ITS FITTINGS SHALL BE THREADED TYPE REGARDLESS OF SIZES BASED ON PLUMBING STANDARDS.
- INSTALL 38mm DIA. MAIN DRAIN AT THE PUMP HOUSE WITH BALL VALVE AND 25mm DIA. PIPE DRAIN WITH BALL VALVE AT THE END OF EVERY FLOOR LEVEL DOWN TO CATCH BASIN OR CANAL.
- ALL WELDING WORKS SHALL BE DONE ONLY BY A CERTIFIED TESDA CLASS-A WELDERS.
- APPLY TWO (2) COATS EPOXY PRIMER RED AND TWO (2) COATS EPOXY FIRE RED FOR PIPES, HANGERS, BRACKETS & ACCESSORIES. FINAL COLOR OF WALL FOR EXPOSED STEEL FRAMES, PLATFORM, BRACKETS AND SUPPORTS.



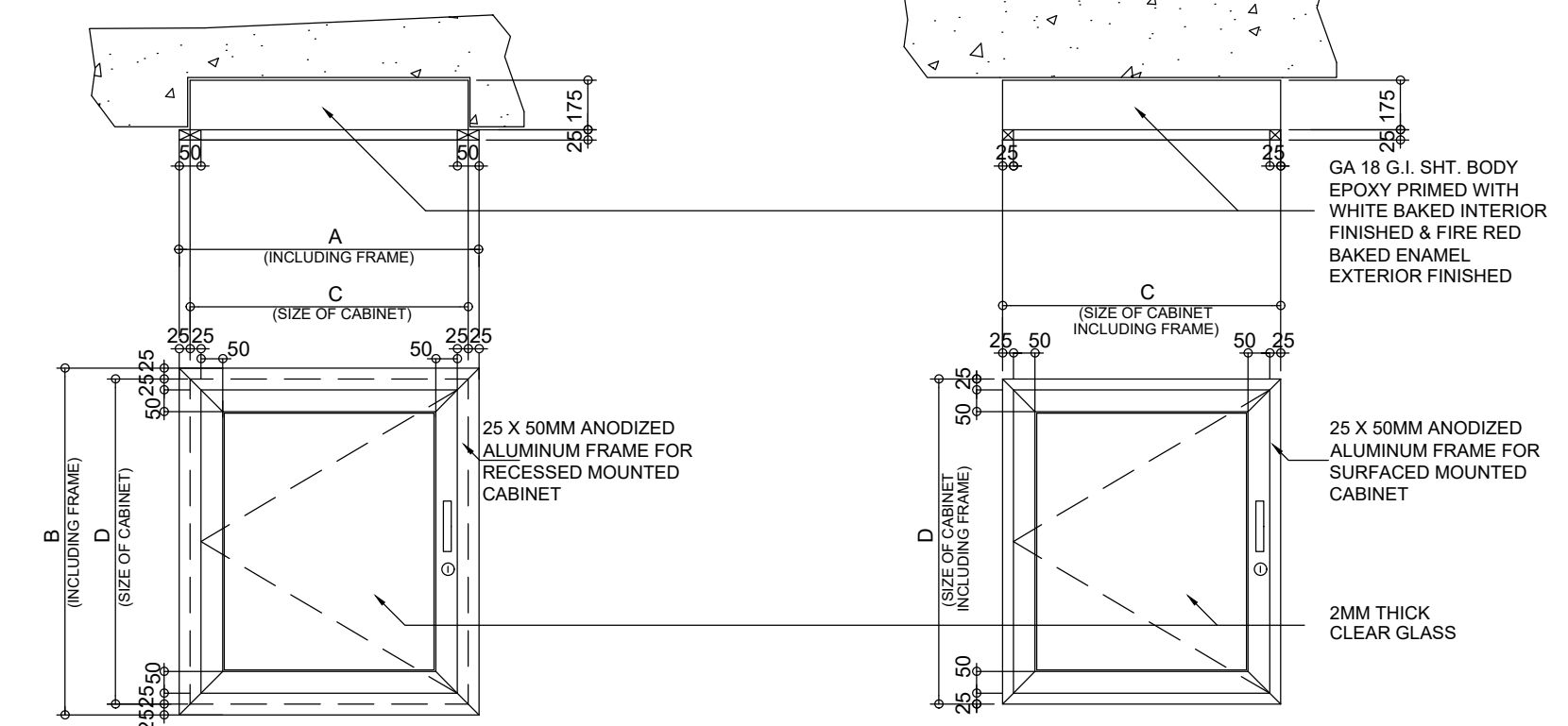
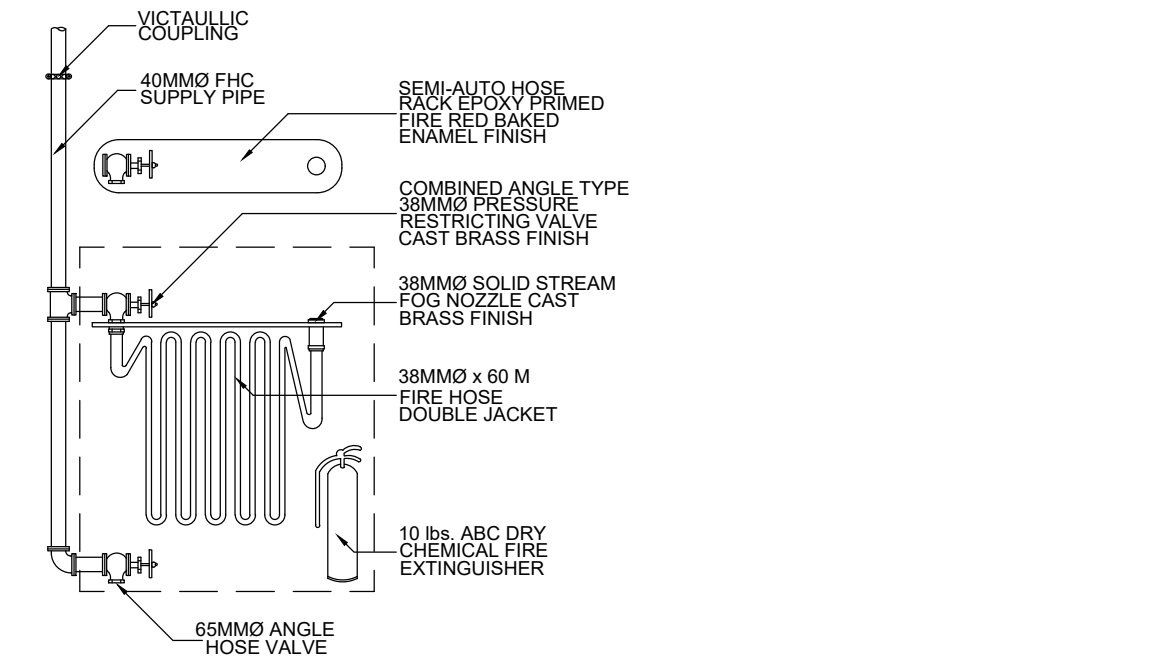
01 TYPE OF SPRINKLER HEAD

M-02



02 FLUSHING CONNECTION DETAIL

M-02

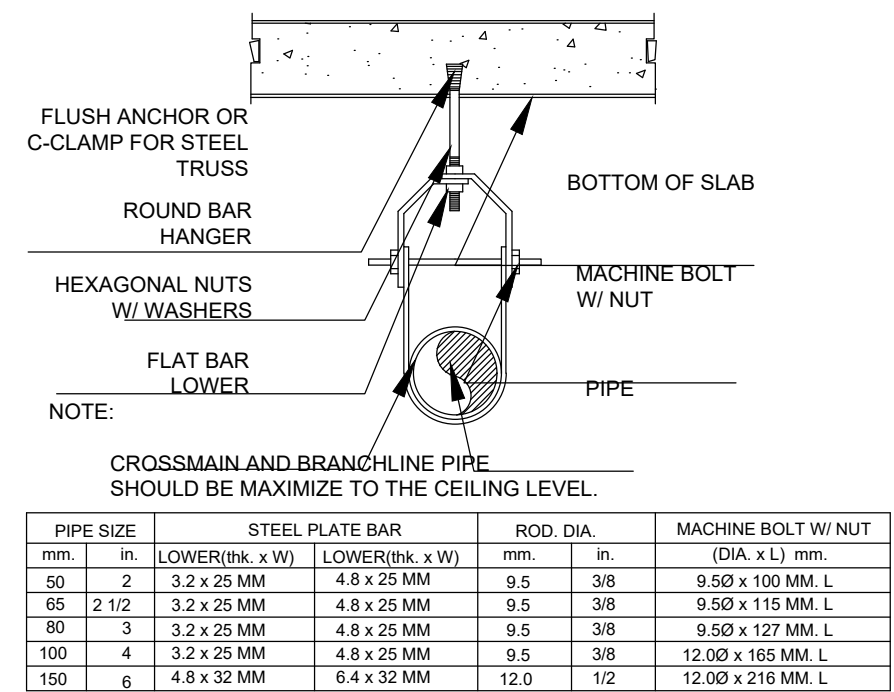


RECESSED MOUNTED	INCLUDING FRAME				SIZE OF CABINET			
	A	B	C	D	A	B	C	D
60 METERS FIRE HOSE	950mm	050mm	900mm	1000mm				
30 METERS FIRE HOSE	850mm	950mm	800mm	900mm				
23 METERS FIRE HOSE	750mm	850mm	700mm	800mm				

SURFACE MOUNTED	SIZE OF CABINET INCLUDING FRAME	
	C	D
60 METERS FIRE HOSE	900mm	1000mm
30 METERS FIRE HOSE	800mm	900mm
23 METERS FIRE HOSE	700mm	800mm

05 FIRE HOSE CABINET AND ACCESSORIES DETAIL

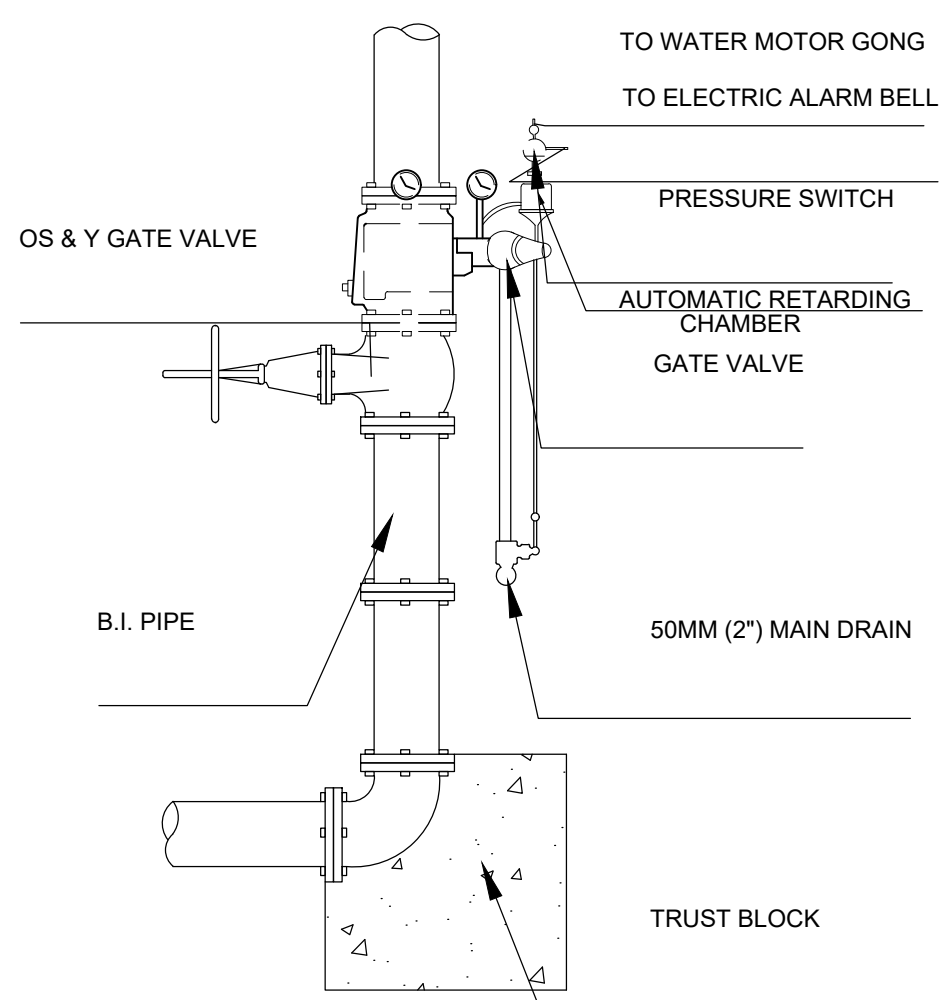
M-02



03 ADJUSTABLE TYPE CLEVIS HANGER

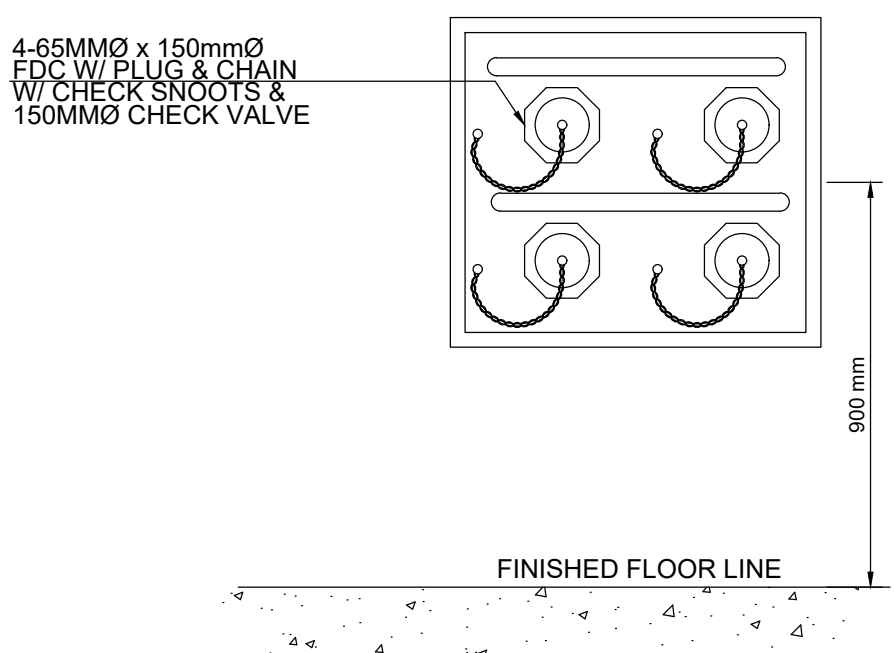
M-02

PIPE SIZE	STEEL PLATE BAR		ROD DIA.	MACHINE BOLT W/ NUT
	LOWER (thk. x W)	UPPER (thk. x W)		
50	2 3.2 x 25 MM	4.8 x 25 MM	9.5 3/8	9.50 x 100 MM. L
65	2 1/2 3.2 x 25 MM	4.8 x 25 MM	9.5 3/8	9.50 x 115 MM. L
80	3 3.2 x 25 MM	4.8 x 25 MM	9.5 3/8	9.50 x 127 MM. L
100	4 3.2 x 25 MM	4.8 x 25 MM	9.5 3/8	12.00 x 165 MM. L
150	6 4.8 x 32 MM	6.4 x 32 MM	12.0 1/2	12.00 x 216 MM. L



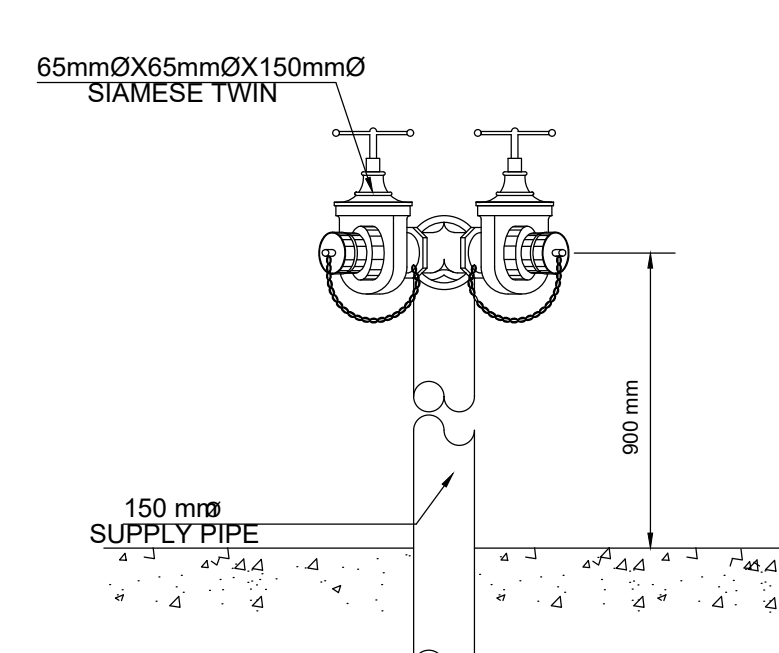
04 ALARM CHECK VALVE ASSEMBLY

M-02



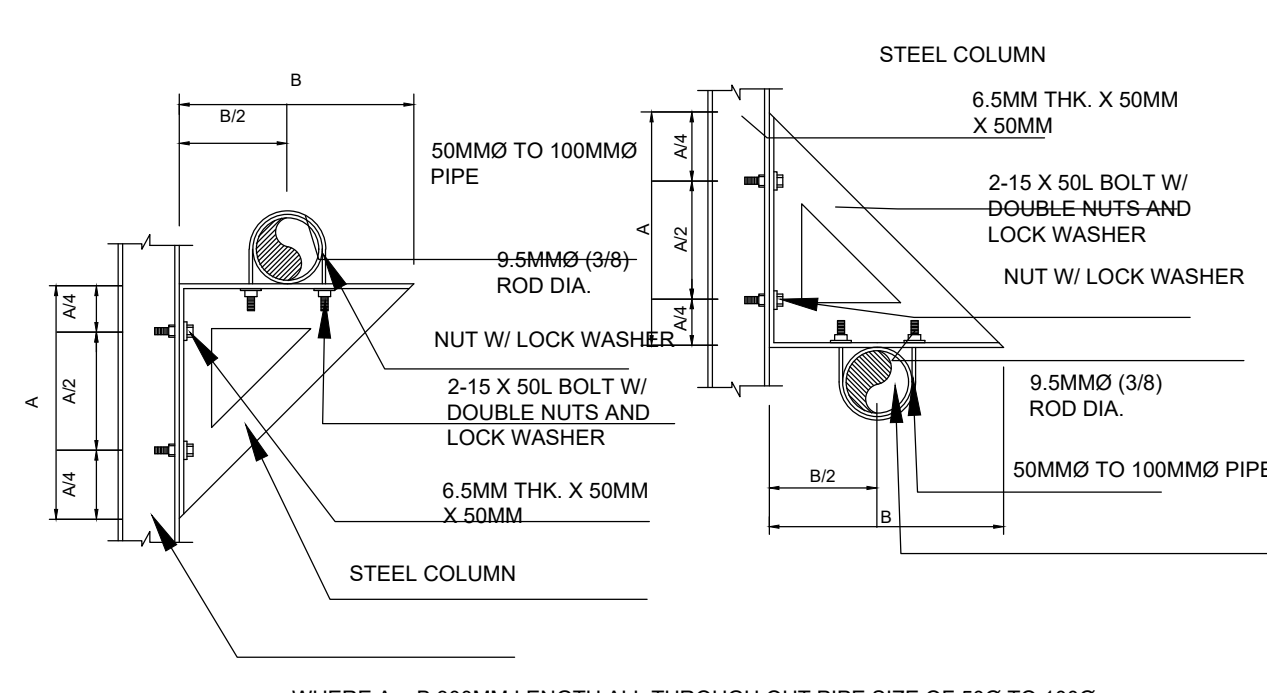
06 FIRE DEPARTMENT CONNECTION

M-02



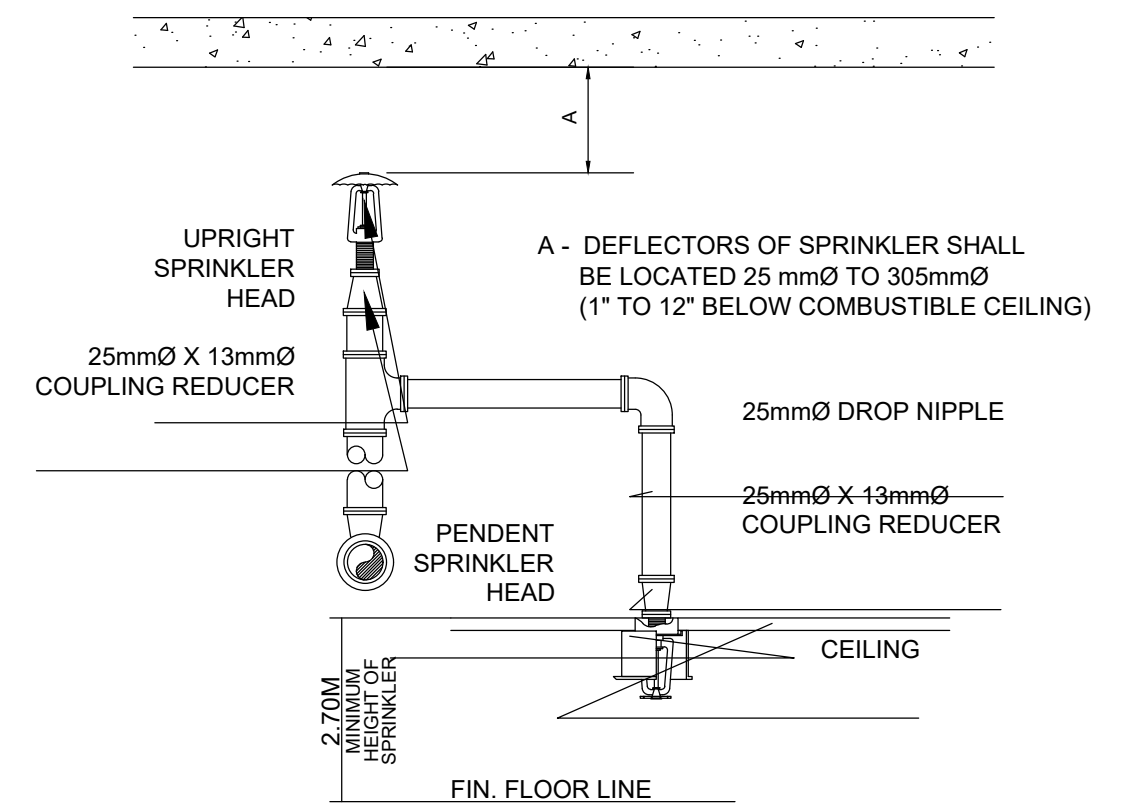
07 ROOF MANIFOLD

M-02



08 WALL PIPE HANGER DETAIL

M-02



09 COMBINATION SPRINKLER HEADS DETAIL

M-02

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

Michael T. Ang
MICHAEL T. ANG, TRAP
ARCHITECT

PRC: 8270
VALIDITY: 08 MAY 2018
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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 IV
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:
NELSON LEANDRO R. BREAÑA, uap
JUNIOR ARCHITECT

CHECKED BY:

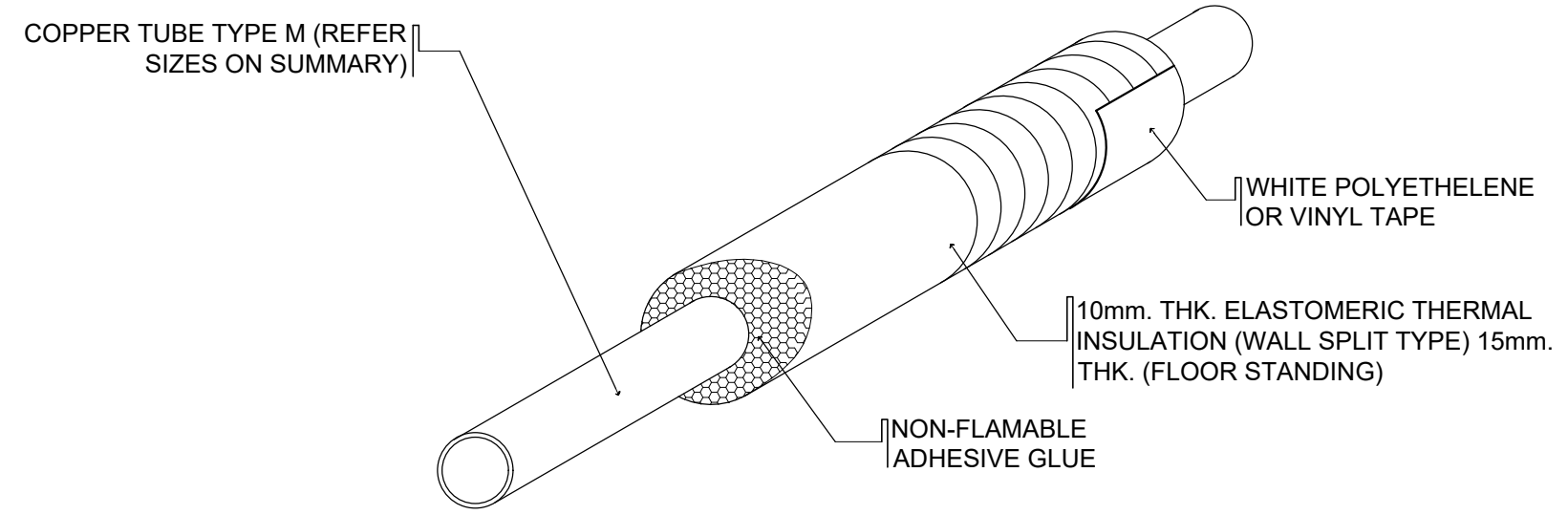
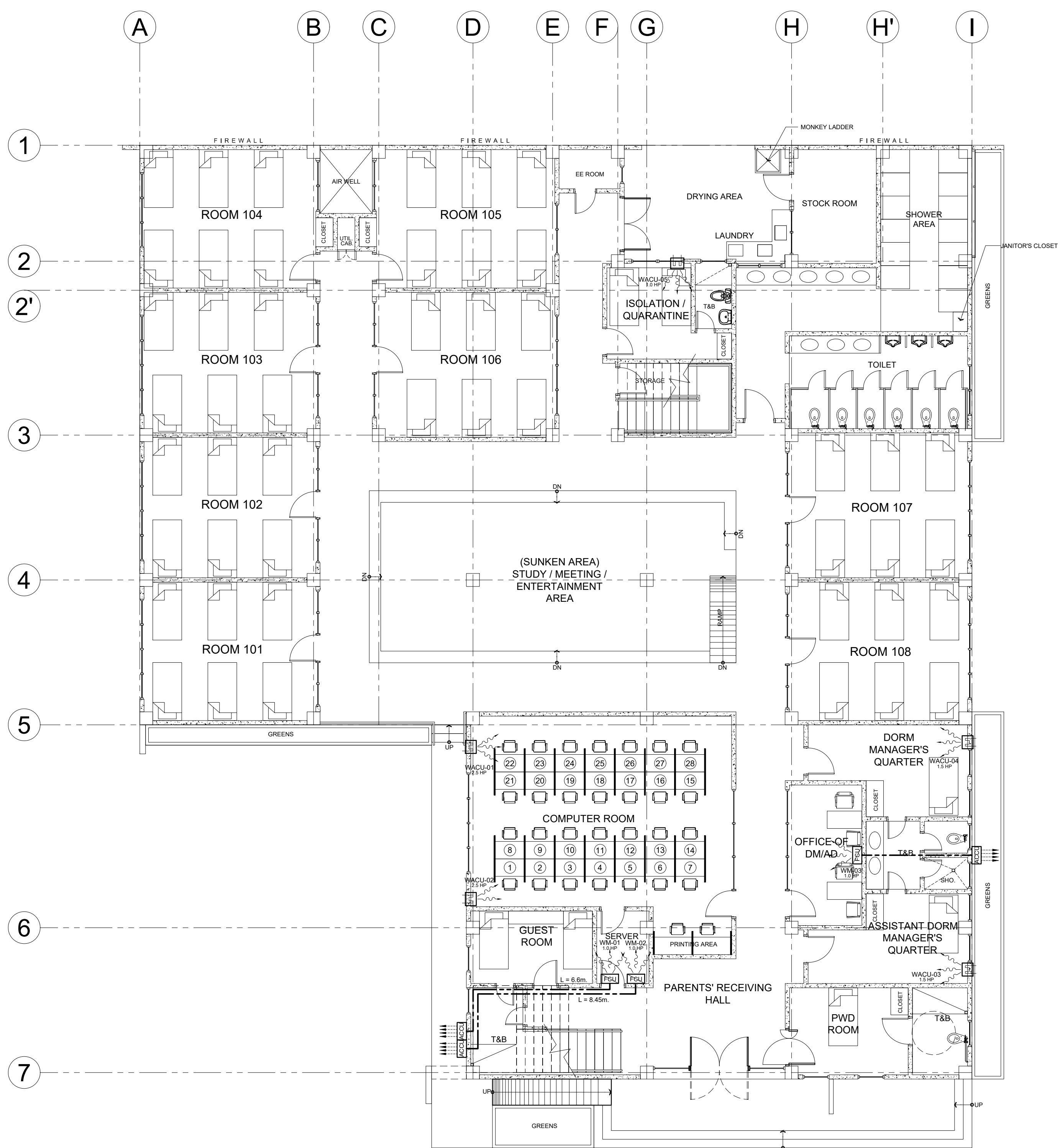
RESIDENT ENGINEER

SHEET NO.
M-02
26 36

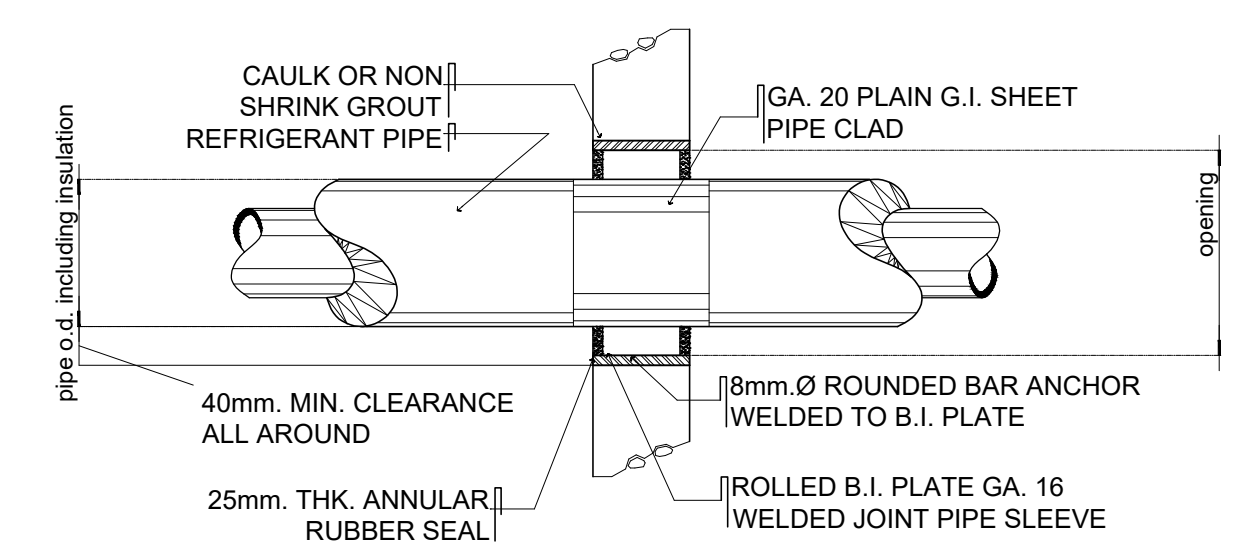
LEGEND :	
	WINDOW TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	WALL MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	FLOOR MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	AIRCON. CONDENSING UNIT (OUTDOOR UNIT)
	INSULATED REFRIGERANT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

GENERAL NOTES:

1. 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.
2. THE CONTRACTOR SHALL SUBMIT WARRANTY CERTIFICATE UPON COMPLETION OF THE PROJECT.
3. 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.
4. ALL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF THE DULY QUALIFIED & COMPETENT MECHANICAL ENGINEER.
5. ALL WORK PERFORMED SHALL COMPLY WITH THE LATEST REGULATION OF PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS CODE.
6. EXHAUST FANS SHALL BE DUCTED TYPE, PREFERRED BRAND SHALL BE KDK OR APPROVED EQUAL.



02 REFRIGERANT PIPE INSULATION DETAILS
M-03 NTS



03 PIPE THRU' WALL DETAILS
M-03 NTS

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

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DESIGNS BUILT • PLUMBING DESIGN
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PRC Reg.No.: 3129 PTR No.: 6603433
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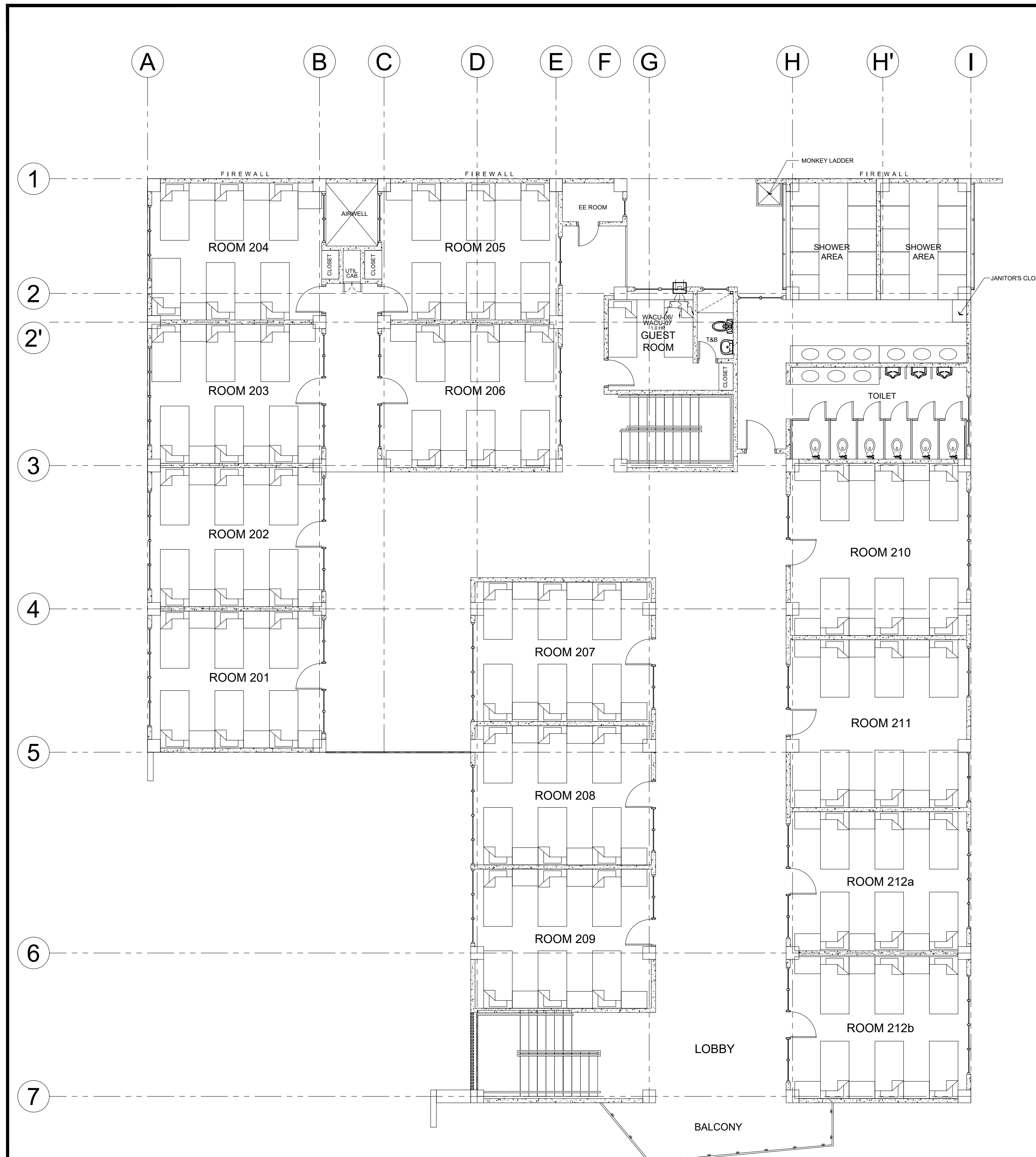
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING IV
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

PREPARED BY:
NELSON LEANDRO R. BRETANA, uap
JUNIOR ARCHITECT
CHECKED BY:

RESIDENT ENGINEER

SHEET NO.	
M-03	
27	36



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 ACU

TYPE OF AIRCON	COOLING CAP.		EER	ELECTRICAL SUPPLY				LOCATION	AREA (SQ. M.)
	HP	KJ/hr		WATTAGE	VOLTAGE	PHASE	CYCLE		
GROUND FLOOR									
WACU-01	2.50	25,500	9.60	2,660	220	1	60	COMPUTER RM.	65
WACU-02	2.50	25,500	9.60	2,660	220	1	60		
WACU-03	1.50	13,000	10.70	1,210	220	1	60	ADM. QUARTER	14.5
WACU-04	1.50	13,000	10.70	1,210	220	1	60	DM. QUARTER	15
WACU-05	1.00	9,540	11.10	860	220	1	60	ISOLATION	15
WM-01	1.00	9,540	11.10	860	220	1	60	SERVER	4.5
WM-02	1.00	9,540	11.10	860	220	1	60	SERVER	4.5
WM-03	1.00	9,540	11.10	860	220	1	60	DM/ADM OFFICE	12
SECOND FLOOR									
WACU-06	1.00	11,000	11.70	940	220	1	60	GUEST RM 1	11.3
THIRD FLOOR									
WACU-07	1.00	11,000	11.70	940	220	1	60	GUEST RM 2	11.3

LEGEND:
 TR - TONS OF REFRIGERANTS
 KW - KILOWATTS
 HP - HORSE POWER
 BTU / HR - BRITISH THERMAL UNITS PER HOUR

01 **TYP. SECOND & THIRD FLOOR ACU LAYOUT PLAN**
 M-01 SCALE: 1:100

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Michael T. Ang
MICHAEL T. ANG, uap
 ARCHITECT

PRC: 8270
 VALIDITY: 08 MAY 2018
 IAPOA: 04440 198031 072717
 O.R. | DATE: 198031 | 27 JULY 17
 PTR: 7805115
 DATE ISS: 04 JAN 2018
 PLACE ISS: GSC
 TIN: 123-875-856

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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

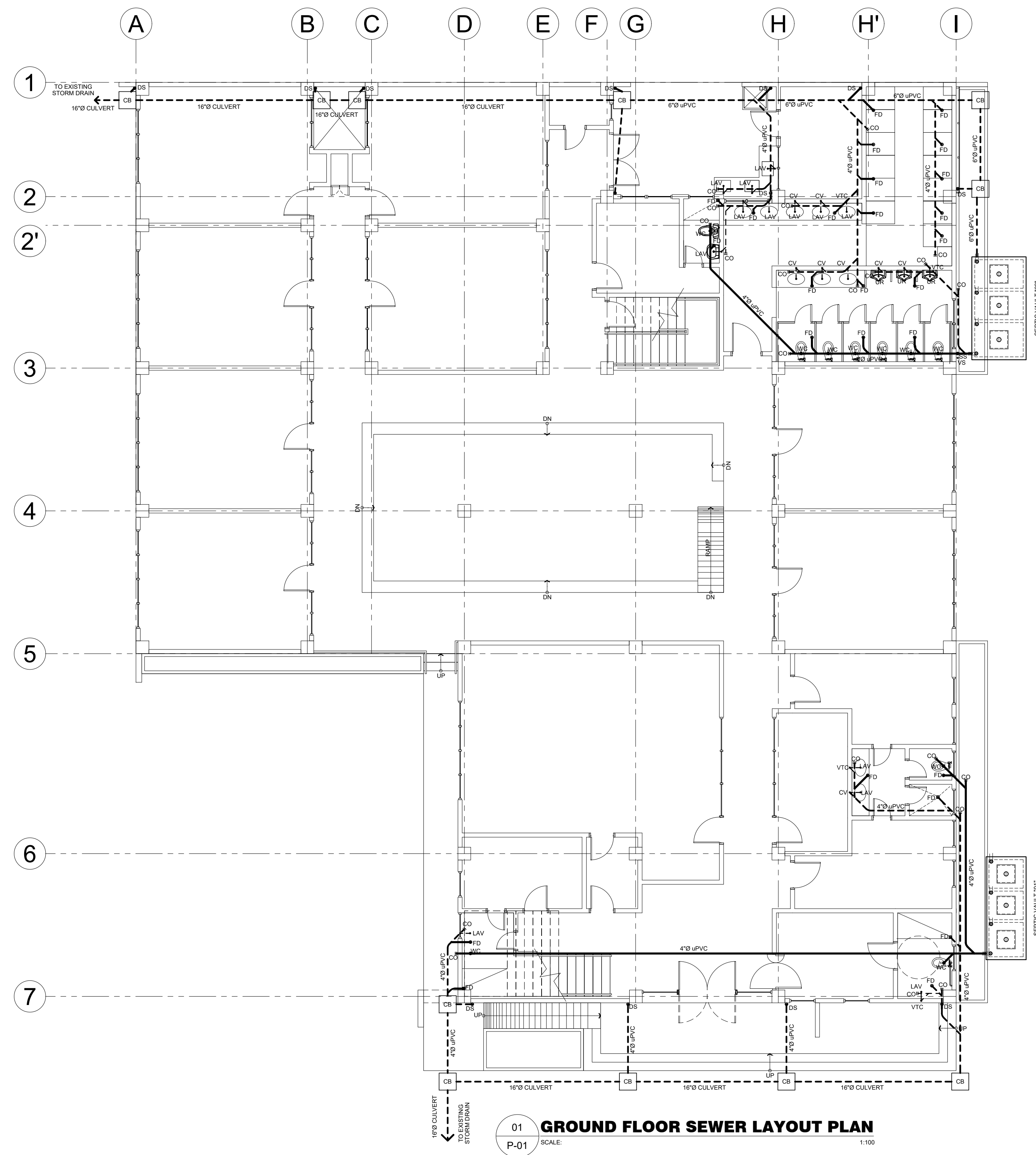
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING IV
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

PREPARED BY:
NELSON LEANDRO R. BRETAÑA, uap
 JUNIOR ARCHITECT
 CHECKED BY :

 RESIDENT ENGINEER

SHEET NO.
 M-04
 28 36



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.

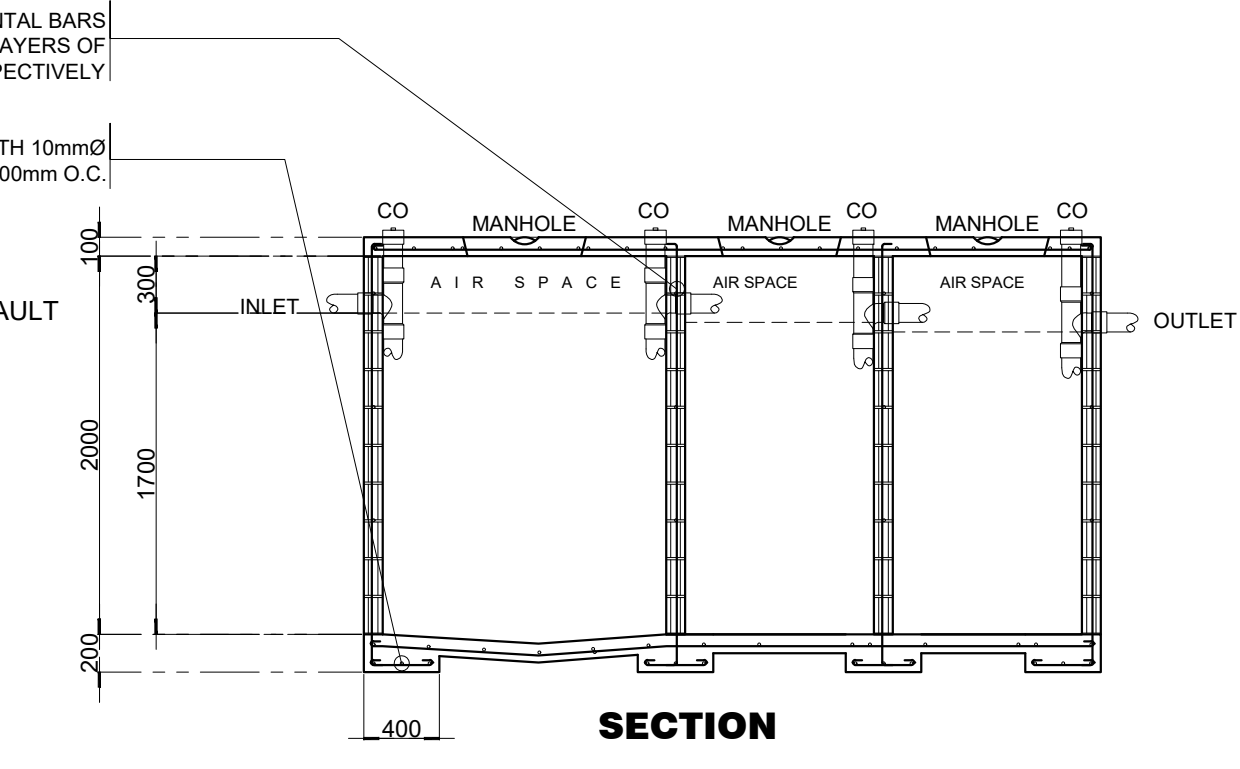
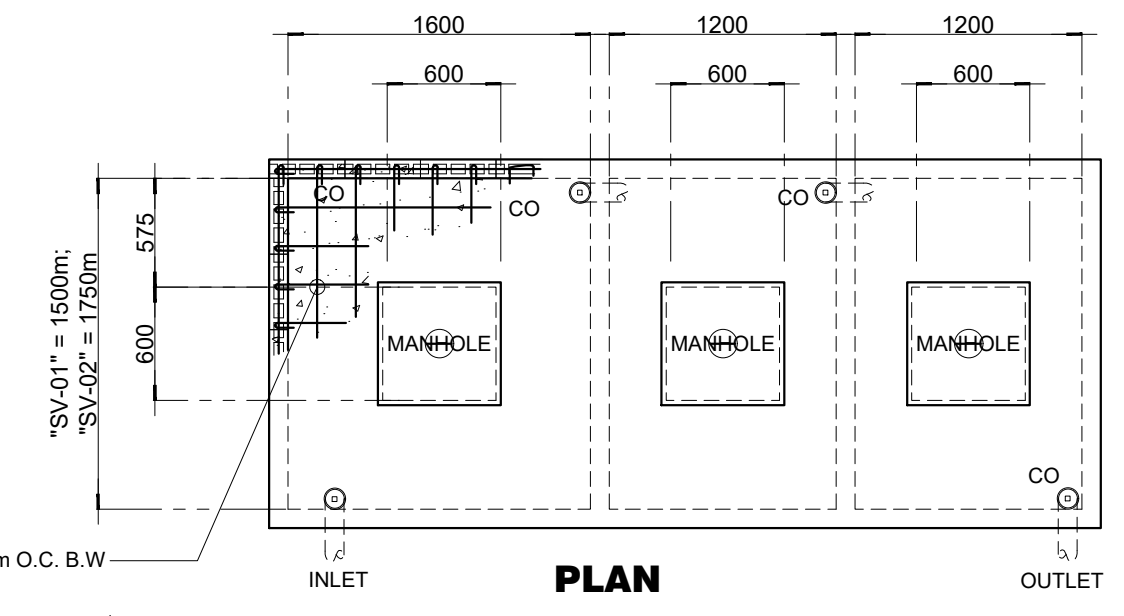
ALL HORIZONTAL PIPINGS SHALL RUN IN PRACTICAL ALIGNMENT AND SHALL BE PROVIDED WITH SLOPE OF NOT LESS THAN 1 SLOPE AND SUPPORTED OF ANCHORD EVERY 3.00M. INTERVALS.

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.

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.
WV	WET VENT
HB	HOSE BIB
FT	FAUCET
SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT



02 SEPTIC VAULT "01" DETAILS
SCALE: 1:40

12mmØ DEF. BARS SPACED @ 200mm O.C. B.W

10mmØ VERTICAL AND HORIZONTAL BARS SPACED @ 600mm AND @ EVERY 3 LAYERS OF CHB ON CENTER RESPECTIVELY

3-10mmØ LONGITUDINAL BARS WITH 10mmØ TRANSVERSE BARS SPACED @ 300mm O.C.

NOTE:
INSIDE WALLS OF SEPTIC VAULT SHALL BE PLASTERED

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MICHAEL T. ANG, fuap
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PRC:	8270
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PTR	7805115
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FELIPE C. FAJANEL
SANITARY ENGINEER
PRC Reg. No.: 1771 PTR No.: 1781812
TIN No.: Date: 1/19/18

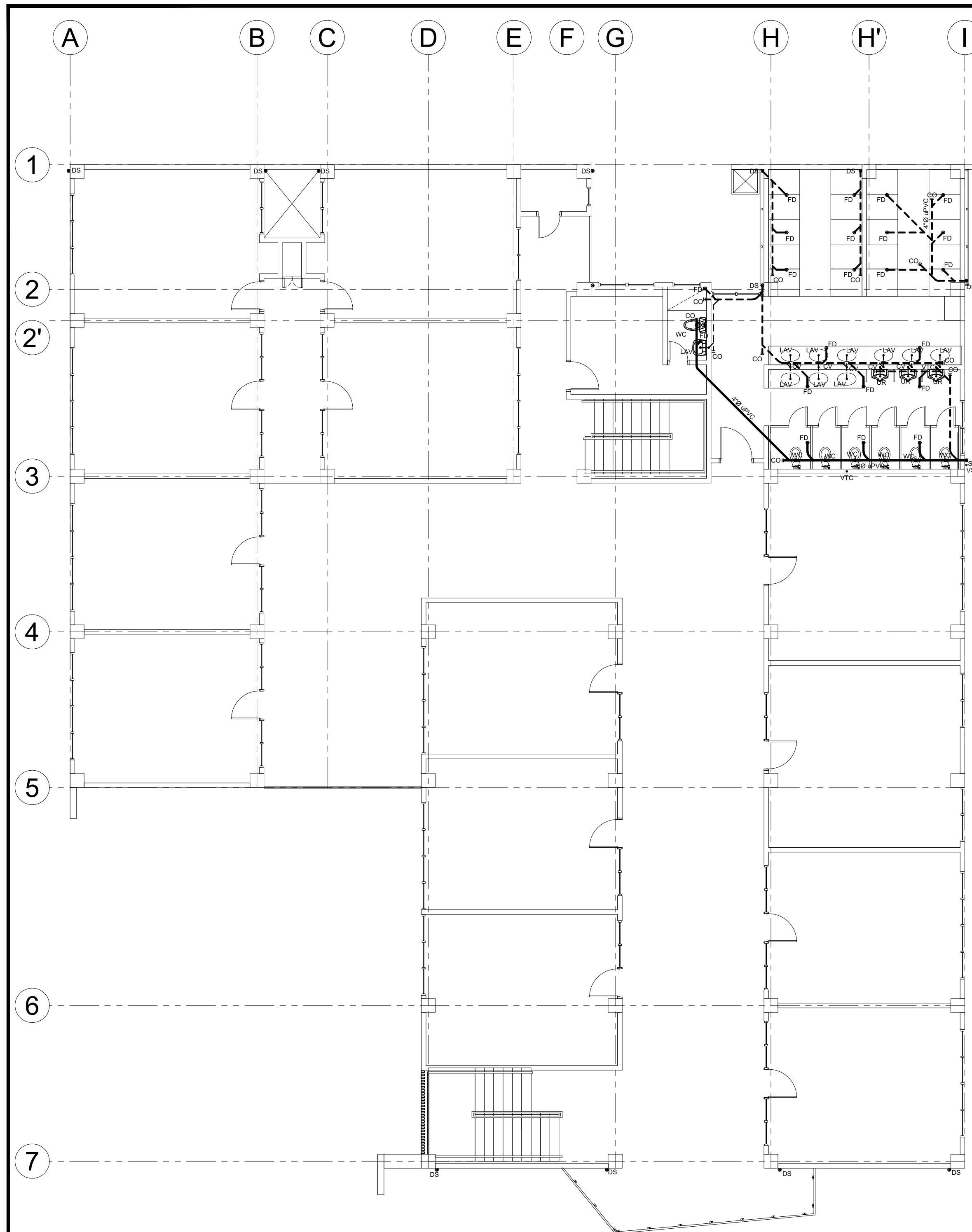
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING IV
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

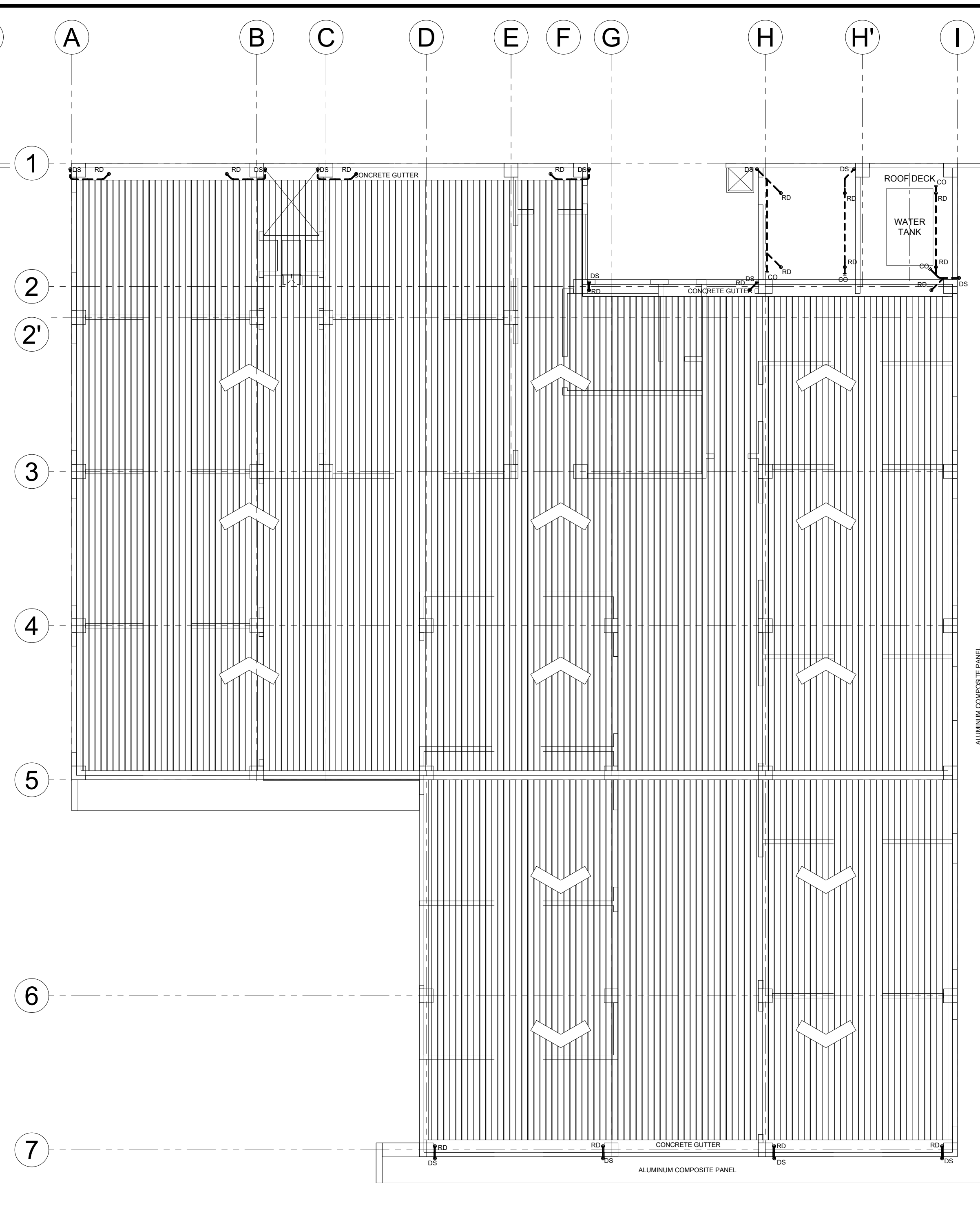
PREPARED BY:
RANILE ESPINA CORDOVA, uap
SENIOR DESIGN ARCHITECT
CHECKED BY :

RESIDENT ENGINEER

SHEET NO.	
P-01	
29	36



01 **TYP. 2nd & 3rd FLR. SEWER LAYOUT PLAN**
 P-02 SCALE: 1:100



02 **ROOF DRAIN LAYOUT PLAN**
 P-02 SCALE: 1:100

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.
WV	WET VENT
HB	HOSE BIB
FT	FAUCET
SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT

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 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

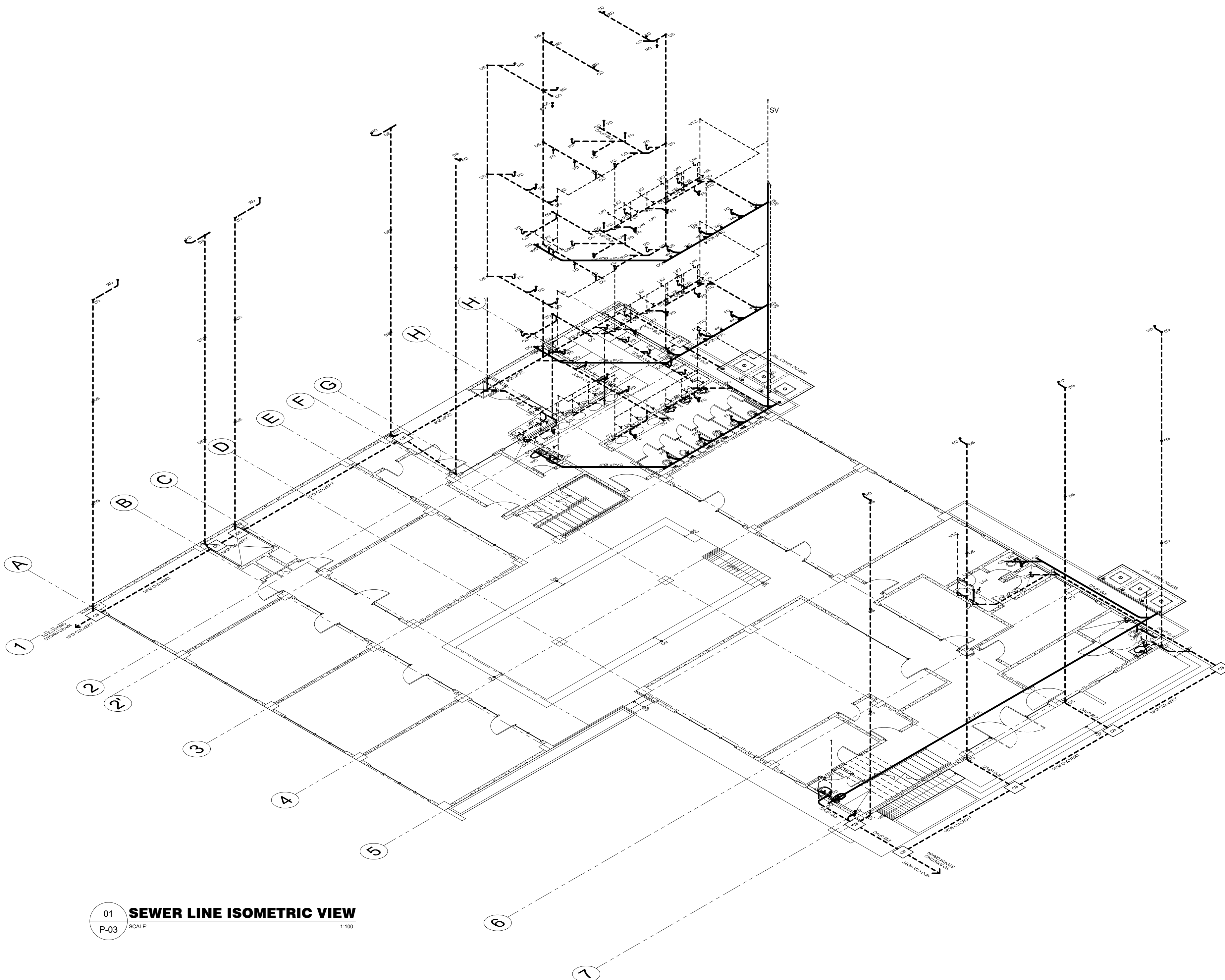
APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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RANILE ESPINA CORDOVA, uap
 SENIOR DESIGN ARCHITECT
CHECKED BY:

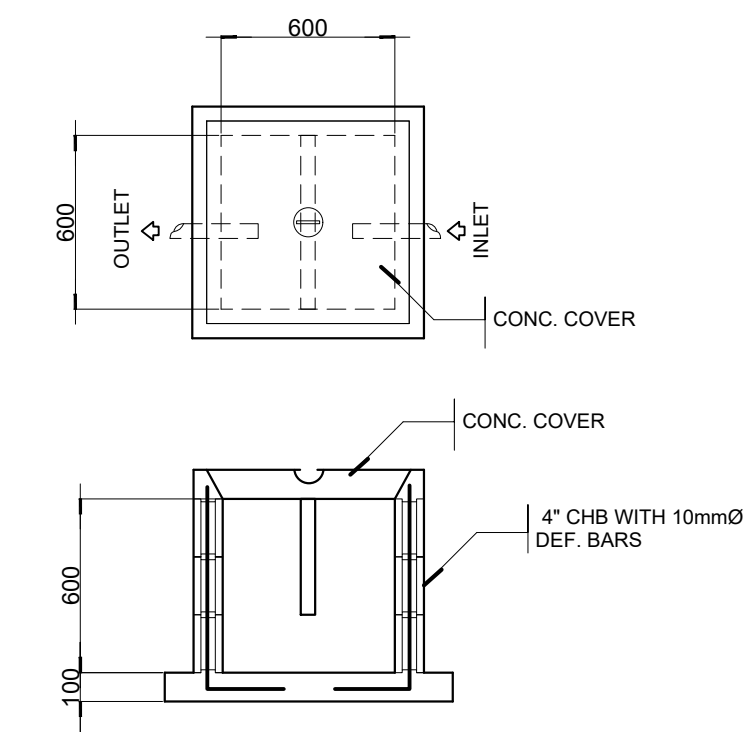
 RESIDENT ENGINEER

SHEET NO.

P-02	
30	36



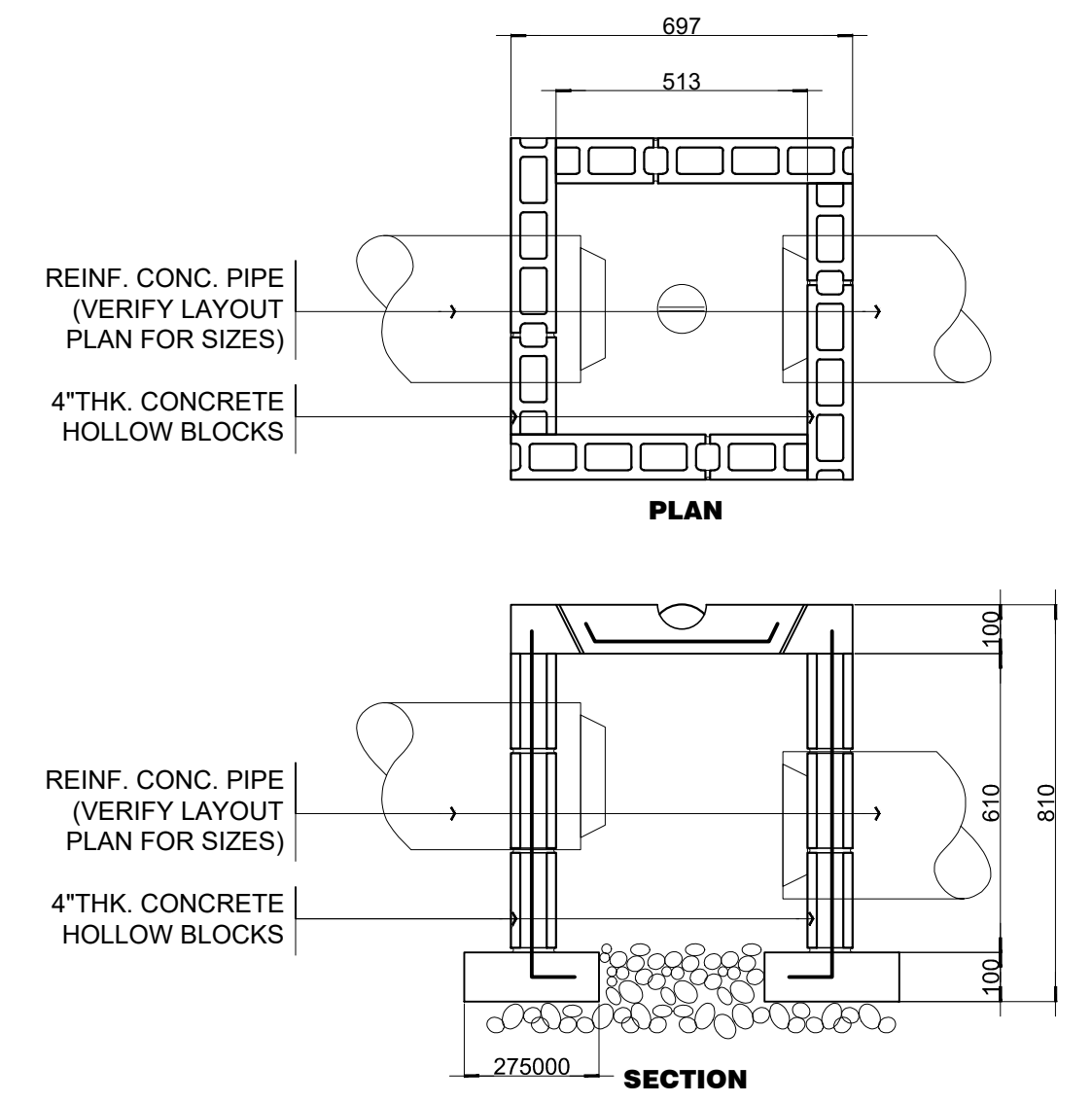
01 **SEWER LINE ISOMETRIC VIEW**
 P-03 SCALE: 1:100



02 **GREASE TRAP DETAILS**
 P-03 SCALE: 1:20

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.
WV	WET VENT
HB	HOSE BIB
FT	FAUCET
SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT



03 **CATCH BASIN DETAILS**
 P-03 SCALE: 1:15

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MICHAEL T. ANG, fuap
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TIN:	123-875-856

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PROJECT TITLE / LOCATION
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 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

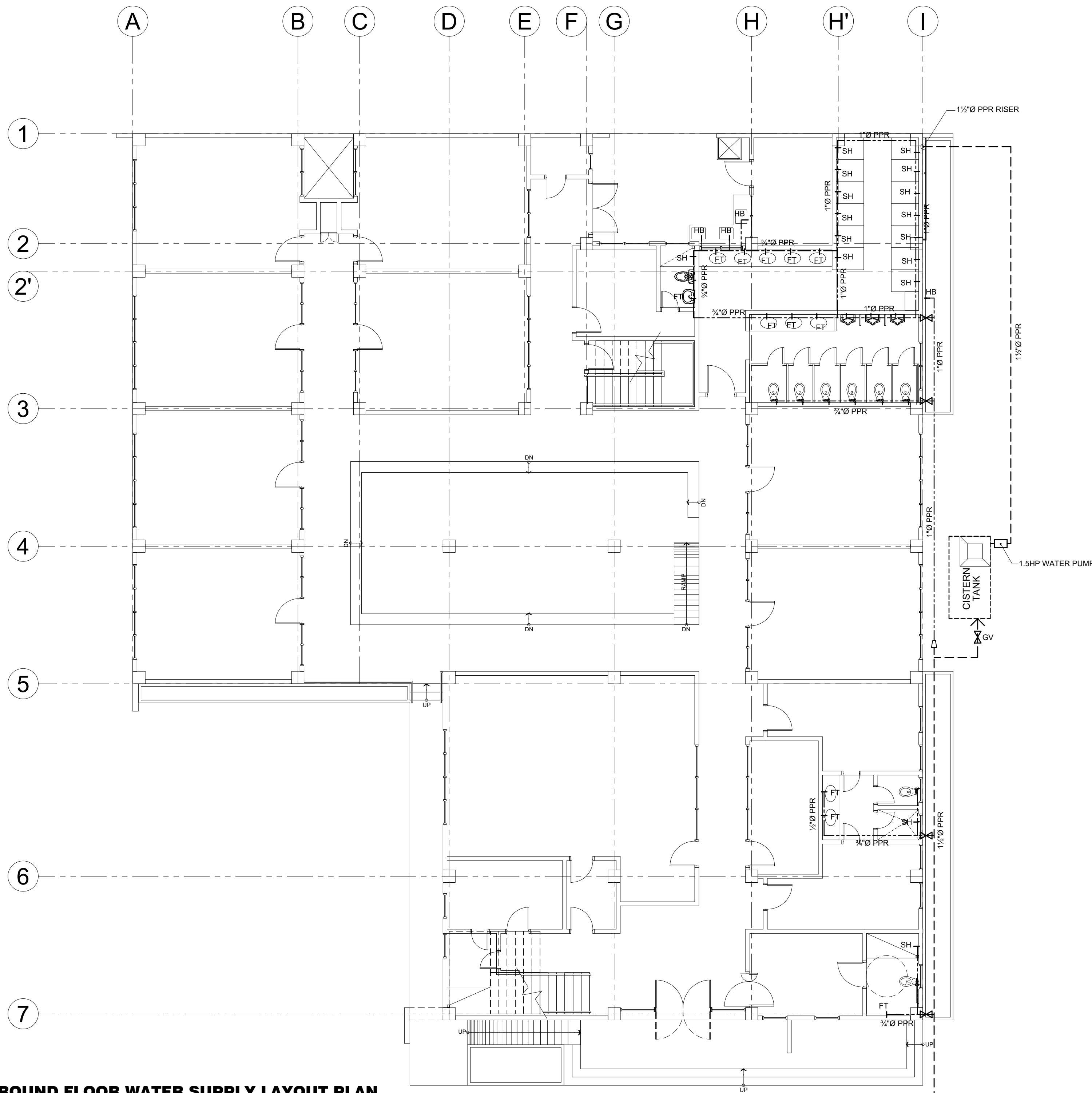
APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 DIRECTOR III
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 SENIOR DESIGN ARCHITECT
CHECKED BY:

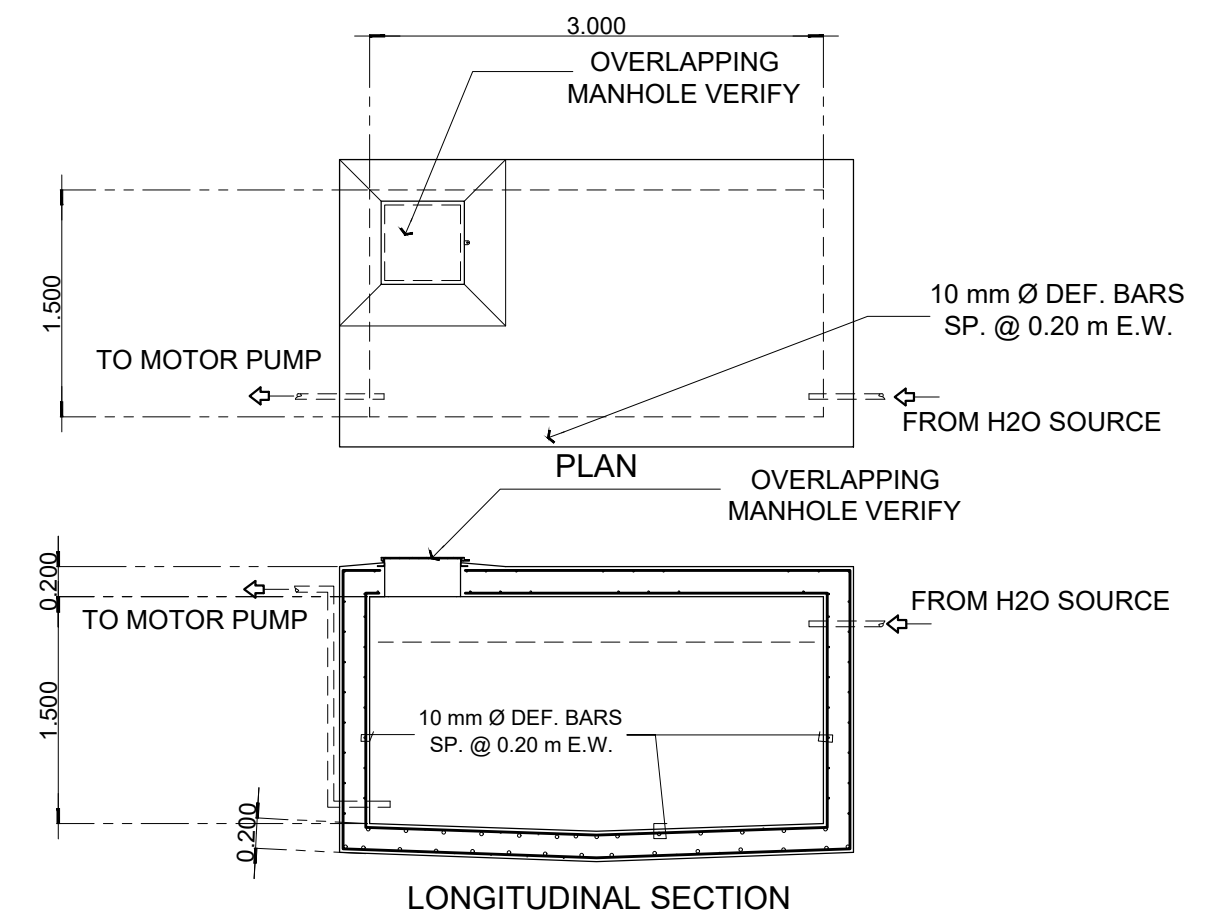
 RESIDENT ENGINEER

SHEET NO.

P-03	
31	36



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.
WV	WET VENT
HB	HOSE BIB
FT	FAUCET
SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT



03 CISTERN TANK DETAILS
P-06 SCALE: 1:50

01 GROUND FLOOR WATER SUPPLY LAYOUT PLAN
P-04 SCALE: 1:100

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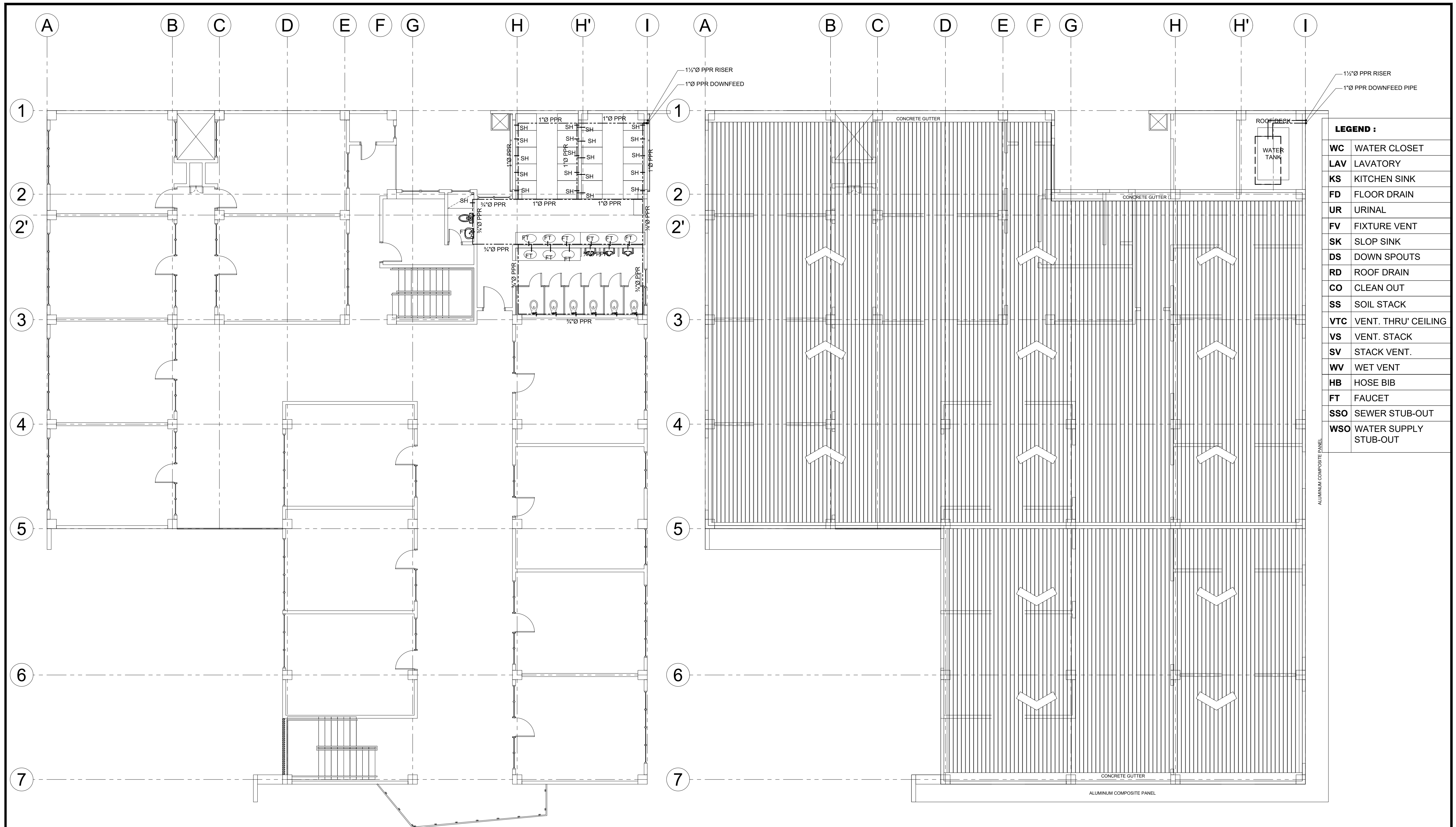
FELIPE C. FAJANEL
SANITARY ENGINEER
PRC Reg. No.: 1771 PTR No.: 1781812
TIN No.: Date: 1/19/18

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PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
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PREPARED BY:
RANILE ESPINA CORDOVA, uap
SENIOR DESIGN ARCHITECT
CHECKED BY :
RESIDENT ENGINEER

SHEET NO.	
P-04	
32	36



01 **TYP. 2nd & 3rd FLR. WATER SUPPLY LAYOUT PLAN**
 P-05 SCALE: 1:100

02 **ROOF DECK WATER SUPPLY LAYOUT PLAN**
 P-05 SCALE: 1:100

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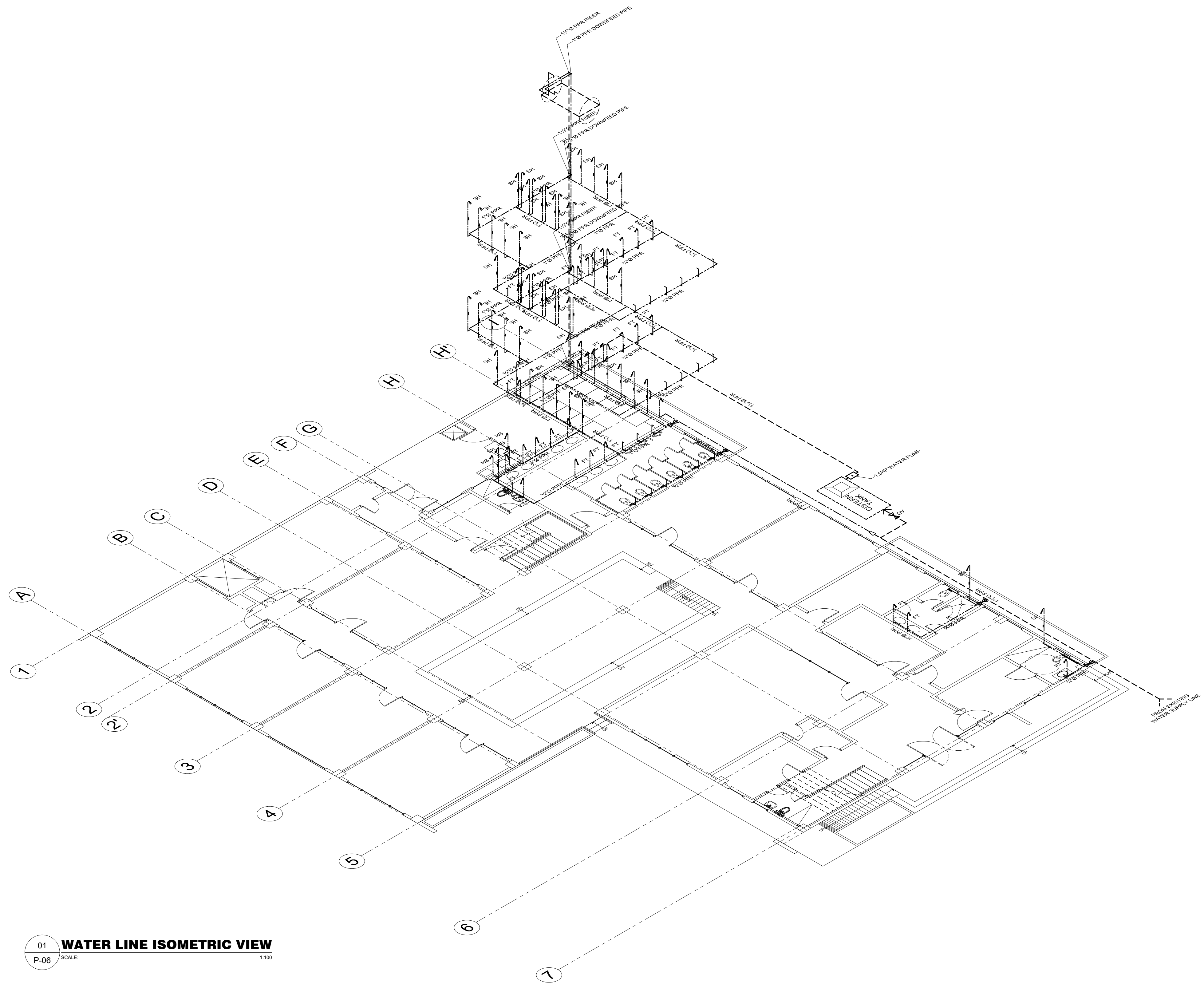
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APPROVED BY
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PREPARED BY:
RANILE ESPINA CORDOVA, uap
 SENIOR DESIGN ARCHITECT
CHECKED BY:

 RESIDENT ENGINEER

SHEET NO.	
P-05	
33	36



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.
WV	WET VENT
HB	HOSE BIB
FT	FAUCET
SSO	SEWER STUB-OUT
WSO	WATER SUPPLY STUB-OUT

01 **WATER LINE ISOMETRIC VIEW**
 P-06 SCALE: 1:100

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

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 SENIOR DESIGN ARCHITECT
CHECKED BY :

 RESIDENT ENGINEER

SHEET NO.

P-06	
34	36

LEGEND/SYMBOLS/ABBREVIATIONS:

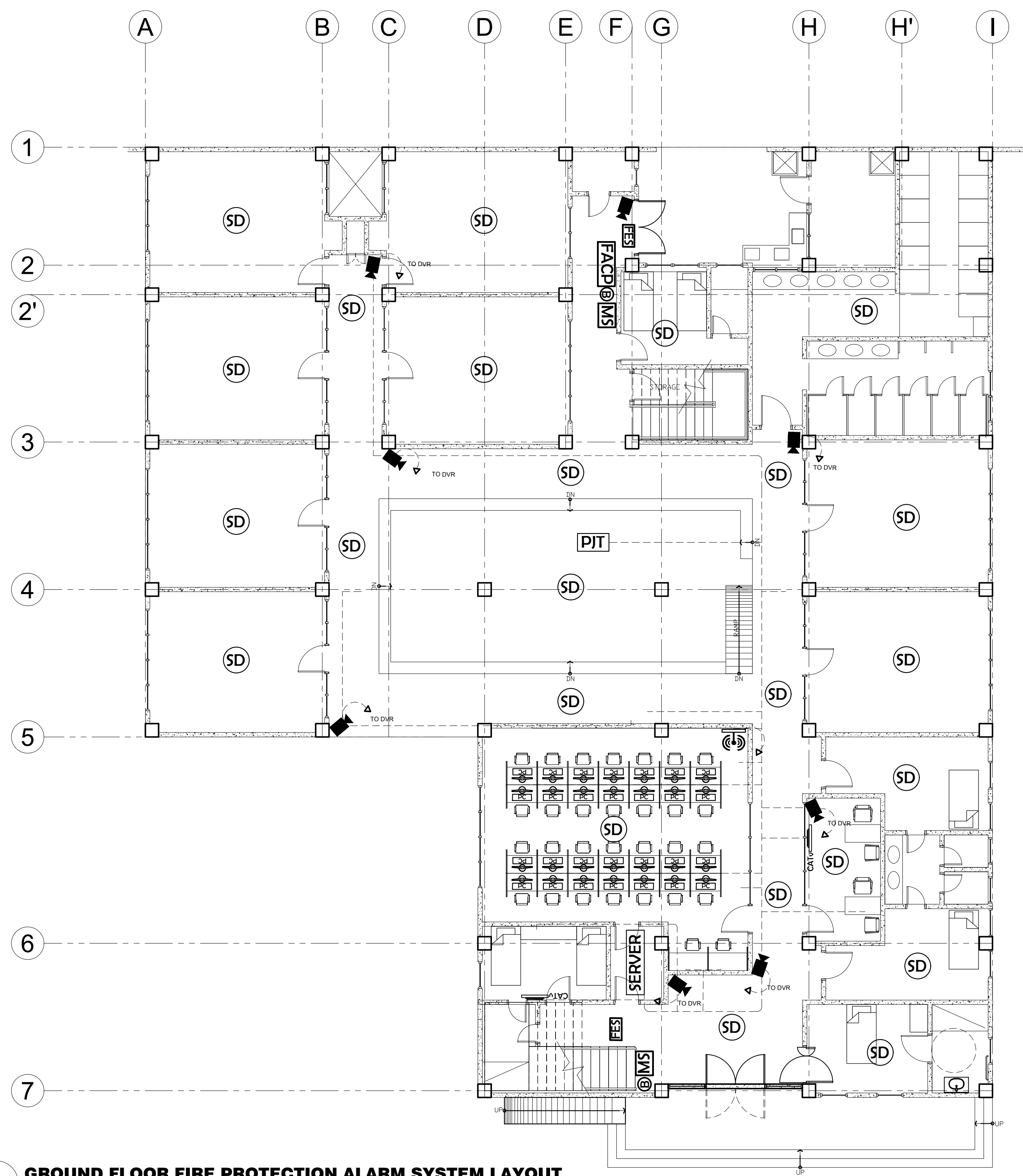
	CCTV CAMERA
	LAN OUTLET
	WIFI ROUTER (ACCESS POINT)
	FIRE ALARM CONTROL PANEL
	COMPUTER
	FIRE DETECTION & ALARM SYSTEM
	LOCAL AREA NETWORK
	SMOKE DETECTOR
	END OF LINE RESISTOR
	FIRE ALARM BELL
	FIRE EXIT SIGN
	CABLE TV
	WALL-MOUNTED/SUSPENDED SPEAKER
	FLOOR-MOUNTED SPEAKER
	PRINTER

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.



01 **GROUND FLOOR FIRE PROTECTION ALARM SYSTEM LAYOUT**
 ECE-01 SCALE: 1:100

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DARWIN D. NISPEROS
 PROF. ELECTRONICS & COMM. ENGINEER
 PRC No.: 0472, 2016 PTR No.: 6595691
 TIN No.: 169-824-299 Date: 1/08/16 ISS. AT: GSC
 IECPEP No.: 09-09657 Validity: 2018

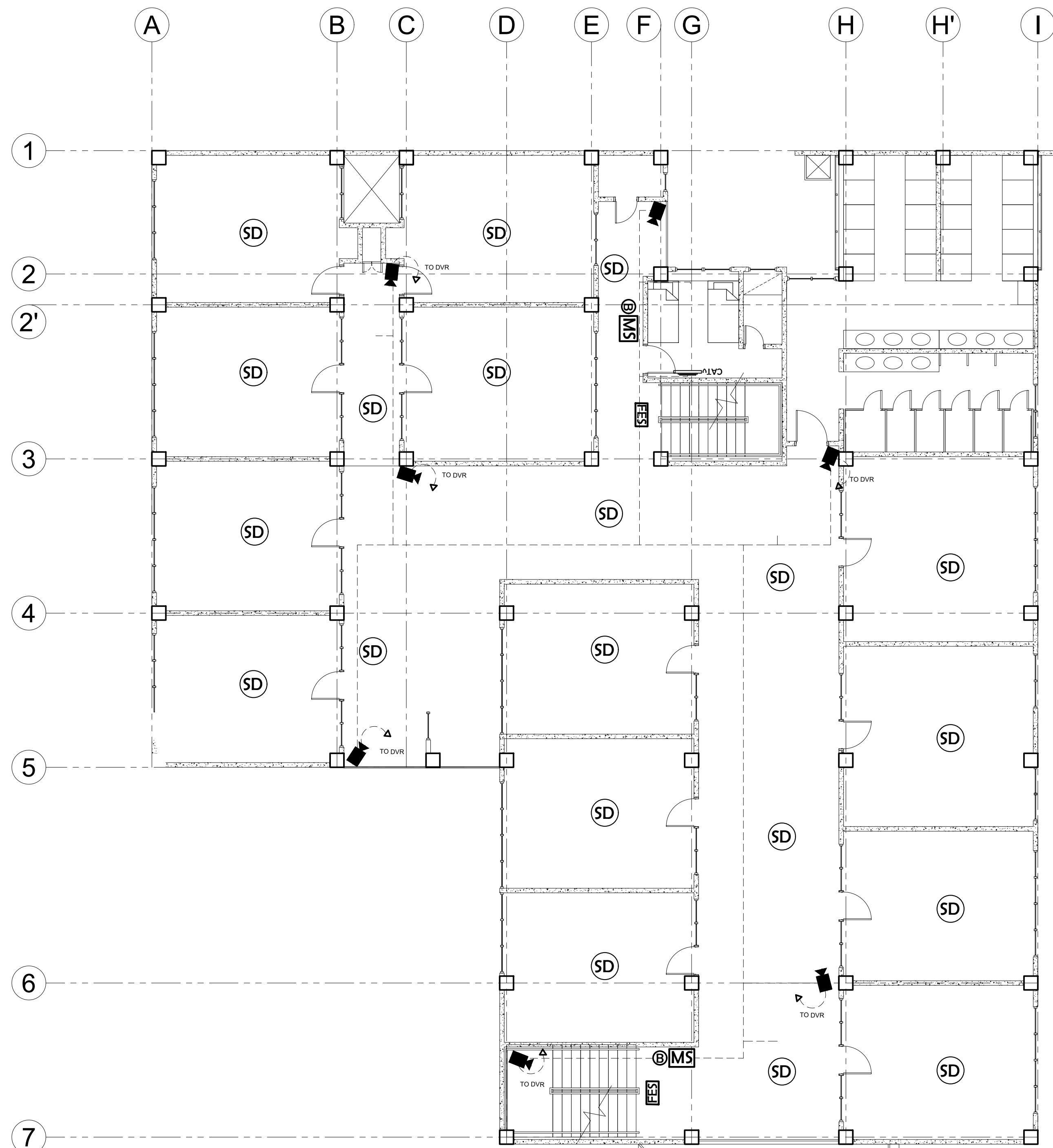
PROJECT TITLE / LOCATION
PROPOSED DORMITORY BUILDING IV
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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

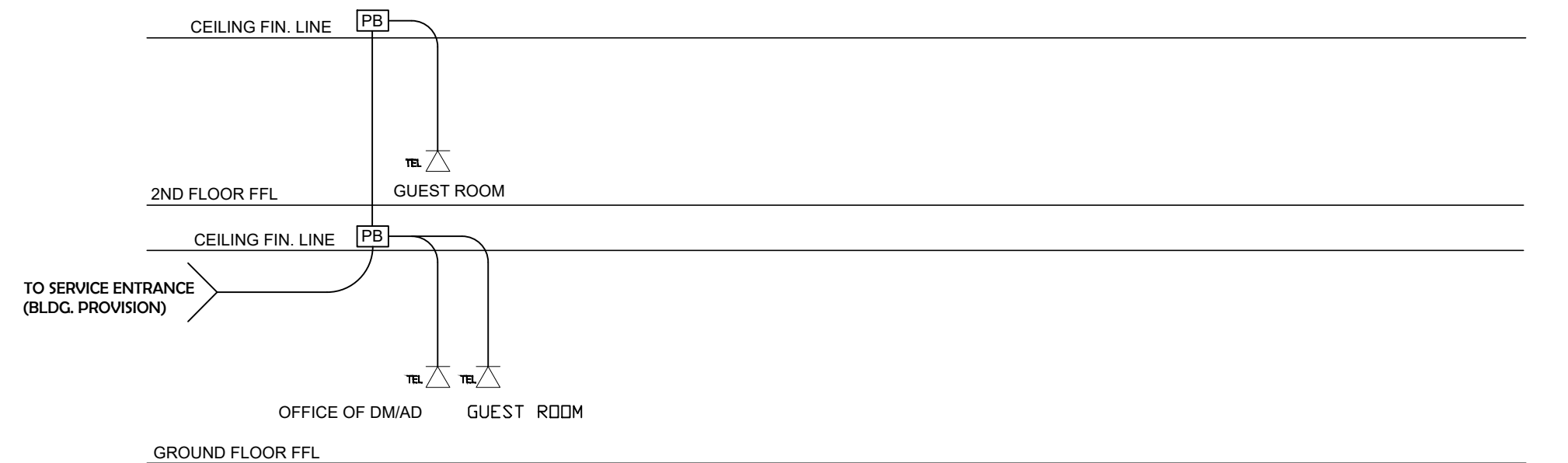
PREPARED BY:
NELSON LEANDRO R. BRETAÑA, uap
 JUNIOR ARCHITECT
 CHECKED BY :

 RESIDENT ENGINEER

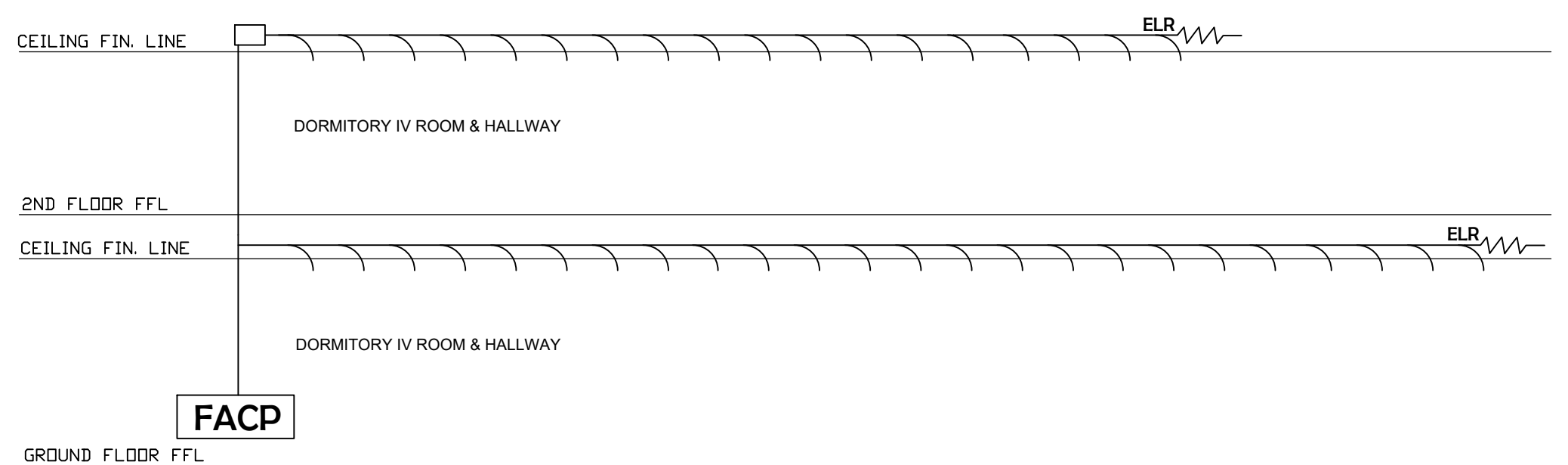
SHEET NO.
 ECE-01
 35 36



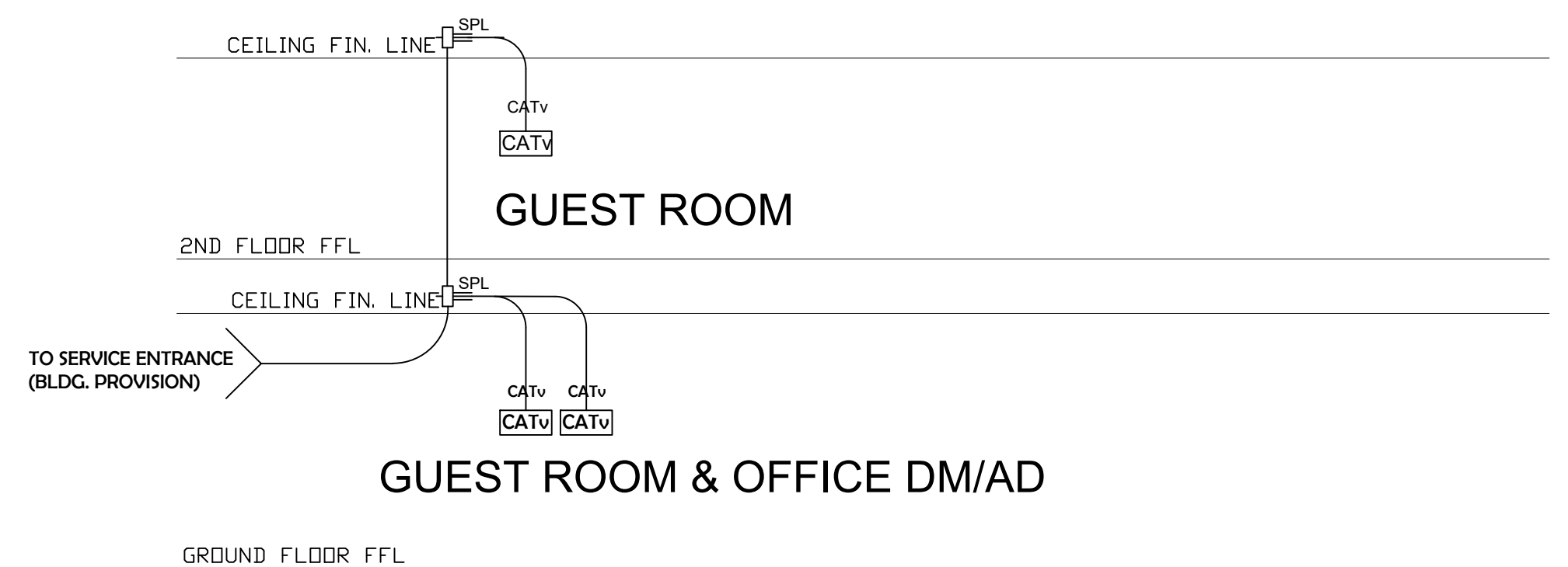
01 **TYP. SECOND & THIRD FLOOR FIRE PROTECTION ALARM SYSTEM LAYOUT**
 ECE-02 SCALE: 1:100



02 **TELEPHONE SINGLE LINE DIAGRAM**
 ECE-02 SCALE: NTS
 SUMMARY
 3 - UNIT TELEPHONE OUTLET



03 **FIRE DETECTION ALARM SYSTEM SINGLE LINE DIAGRAM**
 ECE-02 SCALE: NTS
 SUMMARY
 42 - UNIT SMOKE DETECTOR



04 **CABLE TV SINGLE LINE DIAGRAM**
 ECE-02 SCALE: NTS
 SUMMARY
 3 - UNIT 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

Michael T. Ang
MICHAEL T. ANG, MAP
 ARCHITECT

PRC:	8270
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O.R. DATE:	198031 27 JULY 17
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 PROF. ELECTRONICS & COMM. ENGINEER
 PRC No.: 0472, 2016 PTR No.: 6595691
 TIN No.: 169-824-299 Date: 1/08/16 ISS. AT: GSC
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SHEET NO.	ECE-02
	36 36