

PANEL : LPP1 CABLE: 3 - 5.5 SQMM THHN+ 1 - 2.0 SQMM THW MAIN: 40AT, 100AF, 3P, 230V,MCCB  
 PHASE: 3 CONDUIT: PVC, 20 MM DIA. ENCLOSURE : NEMA 1  
 VOLTS: 230 LOCATION: Ground Floor MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING					CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			Volt- Amp	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN		
					AB	BC	CA					
1	LIGHTING OUTLET ( 4 FL )	4	400	230	1.74			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B
2	LIGHTING OUTLET ( 3 EL + 14 PL )	17	1700	230	7.39			15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1R,1B
3	CONVENIENCE OUT OUTLET	12	2160	230		9.39		20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0		PVC, 20	1B,1Y,G
4	LIGHTING OUTLET ( 4 FL + 2 EL )	6	600	230		2.61		15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1B,1Y
5	LIGHTING OUTLET ( 12 FL + 3 EL )	15	1500	230			6.52	15AT, 2P, 230V, MCCB	2 - 2.0		PVC, 20	1Y,1R
6	CONVENIENCE OUT OUTLET	8	1440	230			6.26	20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0		PVC, 20	1Y,1R,G
7	CEILING FAN OUTLET	2	500	230	2.17			20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0		PVC, 20	1R,1B,G
8	CEILING FAN OUTLET	3	750	230	3.26			20AT, 2P, 230V, MCCB	2 - 3.5 + G 2.0		PVC, 20	1R,1B,G
TOTAL			8300	230	15	12	13	40AT, 3P, 230V, MCCB	3 - 5.5 + G 2.0		PVC, 20	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = (15 \times 1.732) DF = 20.78$  Amperes  
 $I_{CB} = (15 \times 1.732) DF = 20.78$  Amperes

G - Means Ground Wire  
 1R- Color RED  
 1B- Color BLACK  
 1Y- Color YELLOW  
 1G- Color GREEN

use: 3 - 5.5 SQMM THHN+ 1 - 2.0 SQMM THW IN 20 MM DIA. PVC  
 use: 40AT, 100AF, 3P, 230V,MCCB

**This Electrical Design is good only for the above connected loads.**  
**Any additional electrical load connection in the future is not allowed,**  
**Except redesign of electrical load system will be done.**

Prepared by: Ryan Janssen R. Sanchez, REE-0055774

BID BULLETIN  
 May 2022 Bidding

Construction of 4-storey Dormitory Bldg.  
 Phase 1

Temporary Panel Boards

**PANEL : ACP1** **CABLE: 3 - 14.0 SQMM THHN+ 1 - 3.5 SQMM THW** **MAIN: 100AT, 200AF, 3P, 230V,MCCB**  
**PHASE: 3** **CONDUIT: PVC, 25 MM DIA.** **ENCLOSURE : NEMA 1**  
**VOLTS: 230** **LOCATION: Ground Floor** **MOUNTING: SURFACE**

CKT NO.	CIRCUIT DESCRIPTION	NO OF OUTLET	LOAD IN RATING					CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			Volt- Amp	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	SQ. MM THW(G)		
					AB	BC	CA						
1	ACU ( Window Type 2 - HP )	1	1492	230	12.00			30AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
2	ACU ( Window Type 2 - HP )	1	1492	230	12.00			30AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1R,1B,G
3	ACU ( Window Type 2 - HP )	1	1492	230		12.00		30AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
4	ACU ( Window Type 2 - HP )	1	1492	230		12.00		30AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1B,1Y,G
5	ACU ( Window Type 2 - HP )	1	1492	230			12.00	30AT, 2P, 230V, MCCB	2 - 3.5	+	G 2.0	PVC, 20	1Y,1R,G
TOTAL			7460	230	24	24	12	100AT, 3P, 230V, MCCB	3 - 14.0	+	G 3.5	PVC, 25	1R,1B,1Y,G

MAIN FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:  $I_{FL} = \frac{[(24 \times 1.732) + (25\% \times I_m)]}{1} = 44.57 \text{ Amperes}$   
 $I_{CB} = \frac{[(24 \times 1.732) + (250\% \times I_m)]}{1} = 71.57 \text{ Amperes}$

- G - Means Ground Wire
- 1R- Color RED
- 1B- Color BLACK
- 1Y- Color YELLOW
- 1G- Color GREEN

**use: 3 - 14.0 SQMM THHN+ 1 - 3.5 SQMM THW IN 25 MM DIA. PVC**  
**use: 100AT, 200AF, 3P, 230V,MCCB**

**This Electrical Design is good only for the above connected loads.**  
**Any additional electrical load connection in the future is not allowed,**  
**Except redesign of electrical load system will be done.**

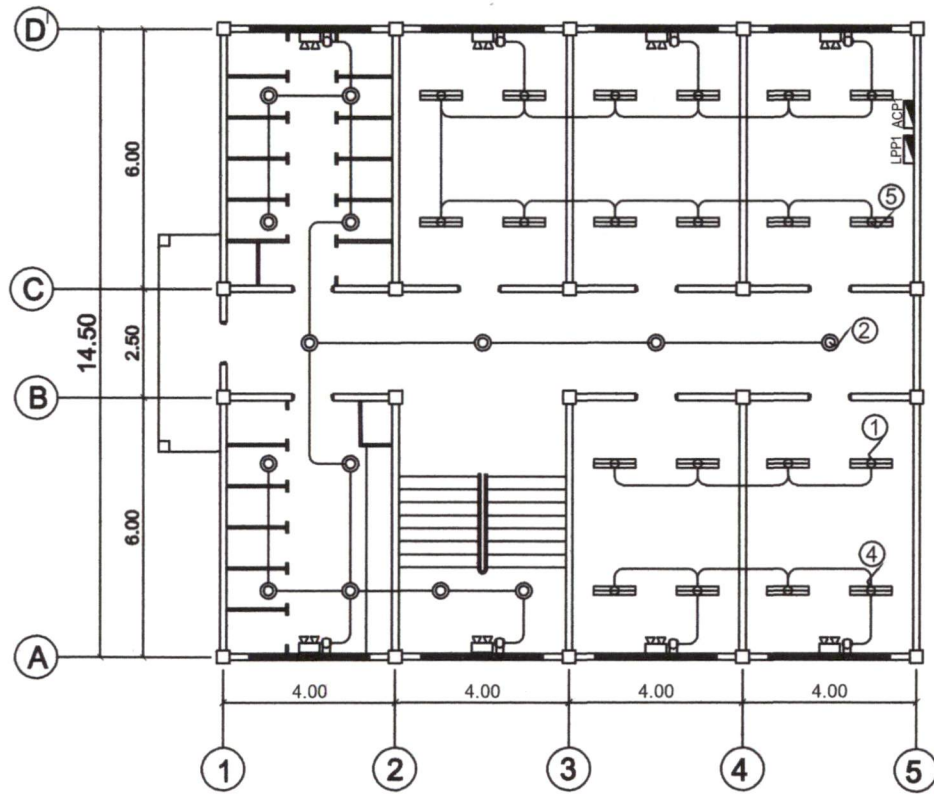
Prepared by: **Ryan Janssen R. Sanchez, REE - 0055774**

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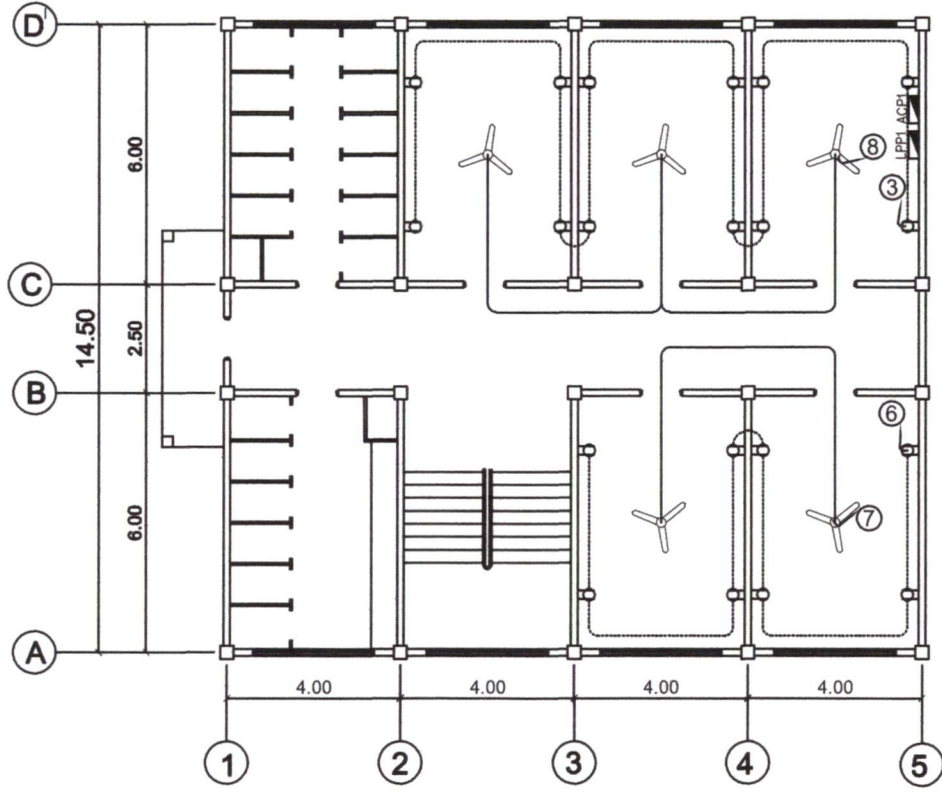
Construction of 4-storey Dormitory Bldg  
Phase I

Temporary Panel Boards

May 2022 Bidding



GRD. FLOOR LIGHTING LAYOUT  
SCALE 1: 300 MTS

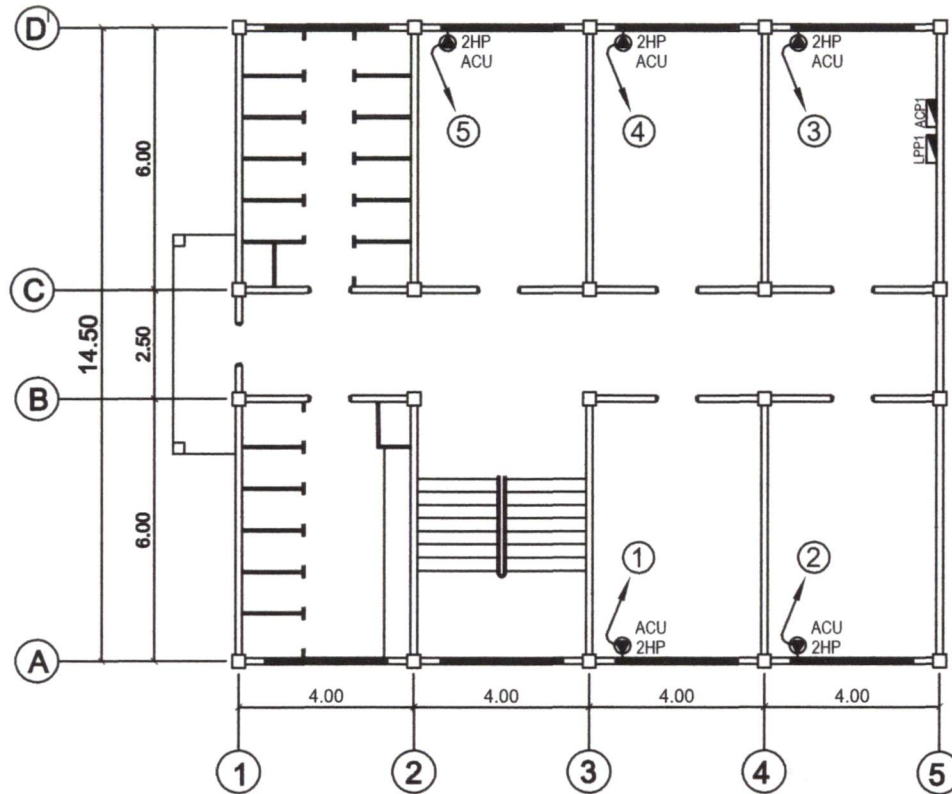


GRD. FLOOR CONV. OUTLET LAYOUT  
SCALE 1: 300 MTS

CONSTRUCTION OF FOUR STOREY DORMITORY BUILDING - PHASE 1

BID BULLETIN

MAY 2022 Bidding

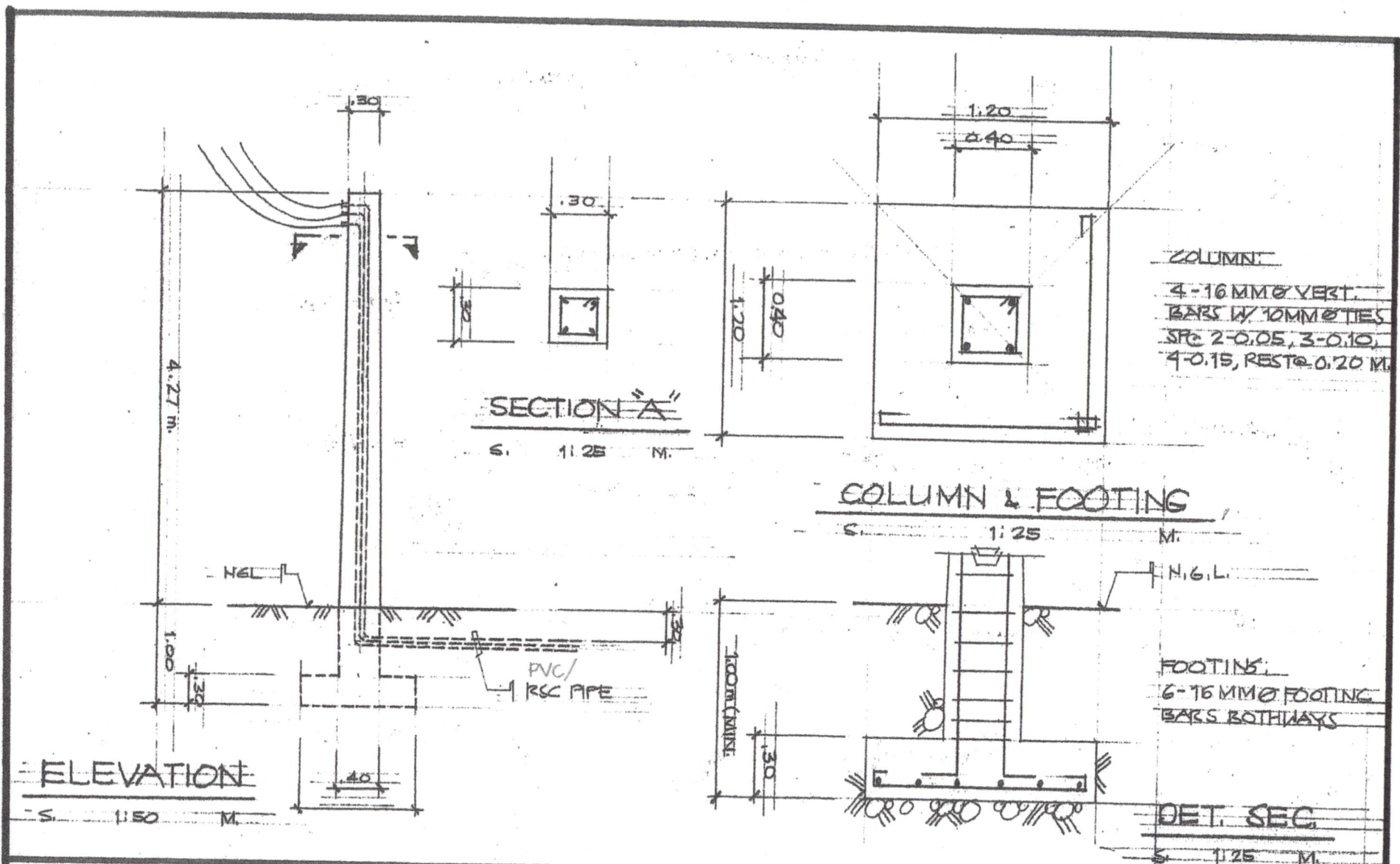


GRD. FLOOR AC OUTLET LAYOUT  
 SCALE 1 : 300 MTS

CONSTRUCTION OF FOUR STOREY DORMITORY BUILDING - PHASE 1

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Electrical Concrete Post