

# ADDENDUM



Public Building Commission of Chicago • Richard J. Daley Center • 50 West Washington, Room 200 • Chicago, Illinois 60602 • Tel: 312-744-3090 • Fax: 312-744-8005

**ADDENDUM NO.:** 2  
**PROJECT NAME:** CPS 2015 Air-Conditioning Program – Region B Project  
**PROJECT NOS.:** 05902, 05912, 05916, 05917, 05919, 05930, 05936, 05938, 05939, 05940, 05941  
**CONTRACT NO.:** C1570B  
**DATE OF ISSUE:** June 12, 2015

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## NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

### ITEM NO. 1: CHANGE TO BID OPENING DATE AND TIME

1. Bid Opening Due Date and Time has been extended to Thursday, June 18, 2015 at 11:30a.m.

### ITEM NO. 2: CLARIFICATION TO REFERENCES IN ORIGINAL BID DOCUMENTS

1. None.

### ITEM NO. 3: CLARIFICATION TO ADDENDUMS

1. Region B Project Addendum No. 1 did not include the following drawings as referenced. Attached are all referenced drawings.
  - i. AVONDALE-LOGANDALE E5.0 – ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM, SCHEDULES AND DETAILS
  - ii. McCORMICK E1.1 – BASEMENT AND FIRST FLOOR PLANS
  - iii. MONROE E1.0 – BASEMENT FLOOR PLAN
  - iv. MONROE E1.1 – FIRST FLOOR PLAN
  - v. MONROE E1.2 – SECOND FLOOR PLAN
  - vi. MONROE E1.3 – THIRD FLOOR PLAN
  - vii. PULASKI E5.1 – ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM, SCHEDULES AND DETAILS

### ITEM NO. 4: REVISIONS TO BOOK 1: Project Information, Instructions to Bidders, and Execution Documents

1. None.

### ITEM NO. 5: REVISIONS TO BOOK 2: Standard Terms and Conditions for Construction Contracts

1. DELETE Book 2, Section 7.03, Article 5, paragraph b.

2. DELETE Book 2, Section 7.07, Article 9, paragraph b.

**ITEM NO. 6: REVISIONS TO BOOK 3, DIVISIONS 02 - 49 SPECIFICATION SECTIONS**

1. None.

**ITEM NO. 7: REVISIONS TO DRAWING SHEETS**

1. None.

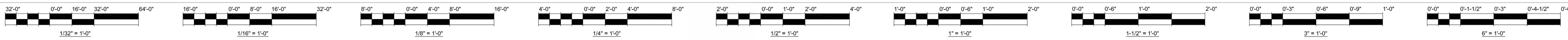
**ITEM NO. 8: REQUESTS FOR INFORMATION**

1. **Statement:** What contract responsibility A or B is to patch the holes in the outside wall after a existing AC Unit has been removed?  
**Response:** Patching required as a result of AC Unit removal and installation will be provided by the PBC and is not a requirement of this bid.
2. **Statement:** Can the construction personnel use the schools restrooms or should temporary facilities per school be furnished?  
**Response:** Temporary toilet facilities are not required for this project. Therefore, Book 2, Section 7.07, Article 9, DELETE Paragraph b.
3. **Statement:** Where existing electrical raceways are to be removed back to the source Shall the surfaces be patched and painted or repainted corner to corner for example classroom ceilings and walls and hallways.  
**Response:** Refer to Electrical and General Notes on the "A" sheets for all schools which states: "...Areas shall be locally patched, primed and painted to match the existing adjacent surface for a uniform appearance, full wall painting is not required in the scope of work."
4. **Statement:** How will book 2 conditions be enforced? It calls for things like Section 7.02 Cleaning Up. Are we required to wax the floors. Also Section 7.03 Article 5, B. Are we to cut the grass and weed each and every school?  
**Response:** Clean Up, when required as a result of Contractor's Work, will be performed in accordance with the requirements outlined in Section 7.03. Floor waxing is not required. Mowing of grass and or weeds will not be a requirement, Therefore, Book 2, Section 7.03, Article 5, DELETE paragraph b.
5. **Statement:** There is a general note on the drawings stating where the AC units are to be removed that all associated power, switch, surface raceway, conduit and all assoc. power be removed back to the panel. This issue is there is a note in the environmental report to assume all wiring is asbestos. This is a very significant price to assume all wiring is asbestos. I think it would be better to place an allowance for this if it is encountered otherwise this price will most likely blow the budget as IDPH regs are pretty significant for asbestos abatement of wiring in schools. That way the initial pricing will be far more more resonable as it most likely not be and issue.  
**Response:** The contractor shall not include any asbestos abatement costs associated with electrical wire removal in their bid. PBC will perform testing and provide required directive if asbestos is confirmed. Contractor shall provide written notice to the PBC for each school when confirmation of lock-out tag-out of the electrical wire requiring removal is completed. Results of testing will be made available within 48 hours of lock-out tag out. No disturbance to assumed electrical wire can occur until written results have been provided to the contractor.

**List of Attachments and Drawings:**

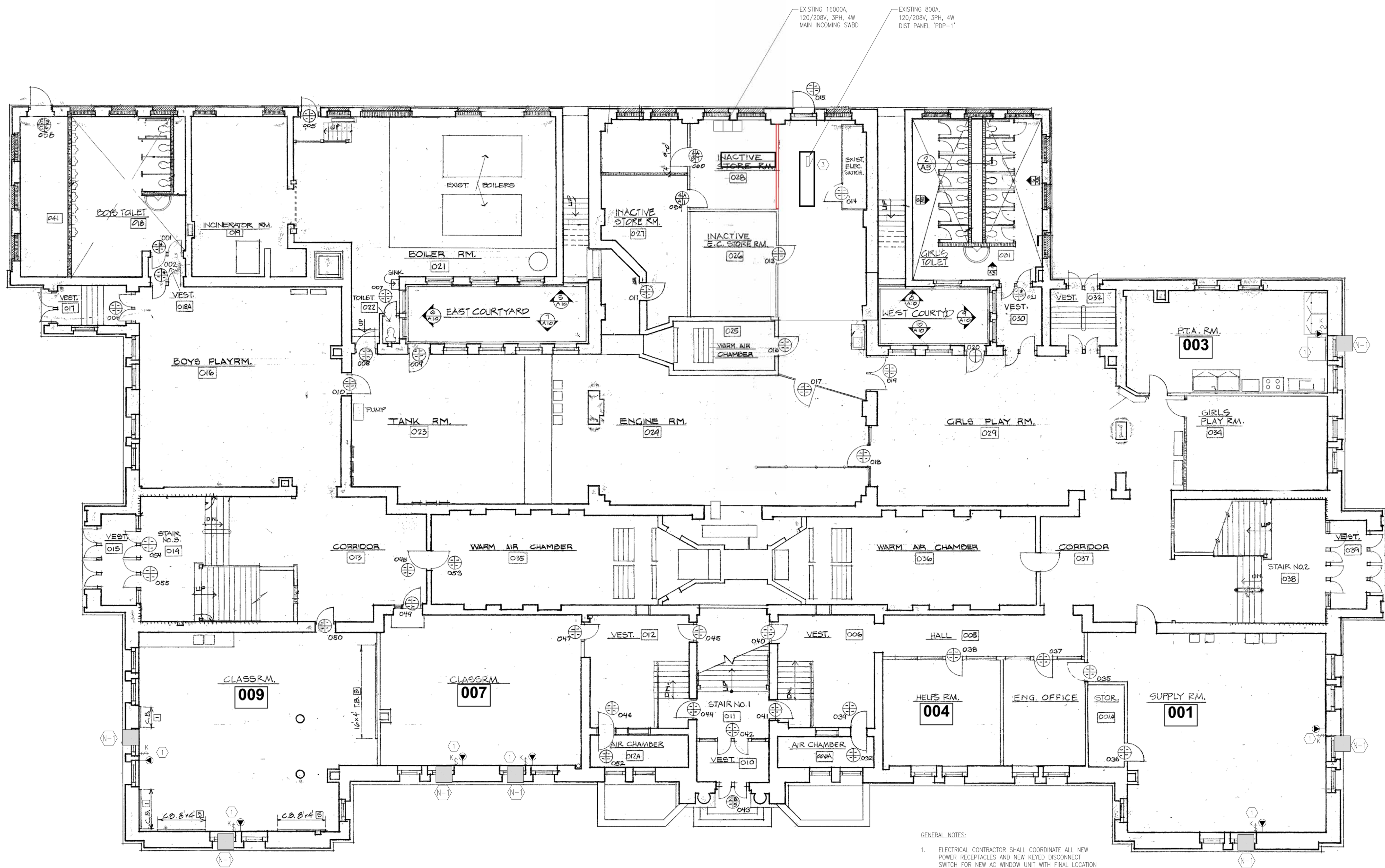
1. This Addendum includes the following attached Documents and Specification Sections:
  - a. None.
  
2. This Addendum includes the following attached Drawing Sheets:
  - a. MONROE E1.0 – BASEMENT FLOOR PLAN
  - b. McCORMICK E1.1 – BASEMENT AND FIRST FLOOR PLANS
  - c. MONROE E1.1 – FIRST FLOOR PLAN
  - d. MONROE E1.2 – SECOND FLOOR PLAN
  - e. MONROE E1.3 – THIRD FLOOR PLAN
  - f. AVONDALE-LOGANDALE E5.0 – ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM, SCHEDULES AND DETAILS
  - g. PULASKI E5.1 – ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM, SCHEDULES AND DETAILS

**END OF ADDENDUM NO. 2**



**PLAN KEY**

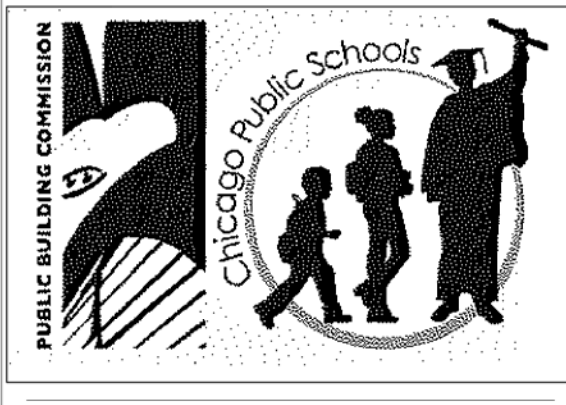
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- NEW WINDOW A/C UNIT
- EX EXTG UNIT - NO CHANGE, N.I.C.
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- (S) PROVIDE NEW EXTERIOR WINDOW SECURITY SCREEN
- (M) MODIFY EXISTING EXTERIOR WINDOW SECURITY SCREEN (SEE DTL. -A1.0, TYP.)



- GENERAL NOTES:**
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL NEW POWER RECEPTACLES AND NEW KEYED DISCONNECT SWITCH FOR NEW AC WINDOW UNIT WITH FINAL LOCATION OF ALL FURNITURE PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
  - ALL A/C UNITS TO BE FURNISHED BY CPS.
  - REMOVE AND REPLACE ALL EXISTING RECEPTACLES AND KEY SWITCHES WHERE NEW A/C UNITS ARE TO BE INSTALLED.
  - REMOVE ALL EXISTING RACEWAY FEEDING EXISTING AC UNITS NOT CURRENTLY FED BY A DEDICATED A/C POWER PANEL. CONTRACTOR TO VERIFY ALL CIRCUITS. ALL NEW AC UNITS TO BE REROUTED AND FED FROM DEDICATED AC PANEL. REFER TO PANEL SCHEDULES AND RISER DIAGRAMS FOR MORE DETAIL.
  - USE NEMA 6-15R RECEPTACLES FOR ALL 1-TON A/C UNITS.

- KEY NOTES:**
- PROVIDE A NEW NEMA 6-20R POWER RECEPTACLE AND LOCAL 2-POLE, 20 AMP KEYED TOGGLE DISCONNECT SWITCH FOR NEW AIR-CONDITIONING UNIT. CONNECT TO NEW PANEL AC-1 OR AC-2 AS SHOWN ON PANEL SCHEDULES AND PROVIDE A NEW 20A, 2-POLE BREAKER. PROVIDE NEW RACEWAY FOR NEW POWER RECEPTACLES AND KEYED SWITCH BACKBOXES. NEW RACEWAY SHALL BE SURFACE MOUNTED WITH SURFACE MOUNTED METAL RACEWAY (WIREMOLD V700 SERIES). ALL DEVICE BACKBOXES SHALL BE SHALLOW TYPE, SINGLE GANG. PROVIDE NEW BRANCH CIRCUIT WIRING WITH 2 #12 & 1 #12 GRD., IN 3/4" CONDUIT. ALL NEW CONDUIT SHALL BE INSTALLED AND ROUTED WITHIN DROPPED CEILING UNLESS NOTED OTHERWISE. MOUNT KEY SWITCH AT 48" AFF. REUSE ALL EXISTING BRANCH CIRCUITS AS FIELD CONDITIONS ALLOW.
  - NOT USED.
  - PROVIDE NEW FEEDER TO CIRCUITS TO DEDICATED AC PANELS FROM DIST. PANEL "POP-1". REFER TO RISER DIAGRAM FOR MORE INFORMATION. INSTALL CONDUIT USING EXISTING ROUTING AND RISERS TO EXISTING PANELS ON THIRD FLOOR. CONFIRM ALL LOCATIONS WITH ENVIRONMENTAL CONTRACTOR BEFORE INSTALLATION.

1 BASEMENT FLOOR PLAN  
E1.0 SCALE: 1/8"=1'-0"



**CPS 2015 SUMMER A/C PROGRAM**  
**MONROE ELEMENTARY**  
 3651 W. SCHUBERT AVE.  
 CHICAGO, ILLINOIS 60647  
 CHICAGO PUBLIC SCHOOLS  
 CITY OF CHICAGO, MAYOR RAHM EMMANUEL

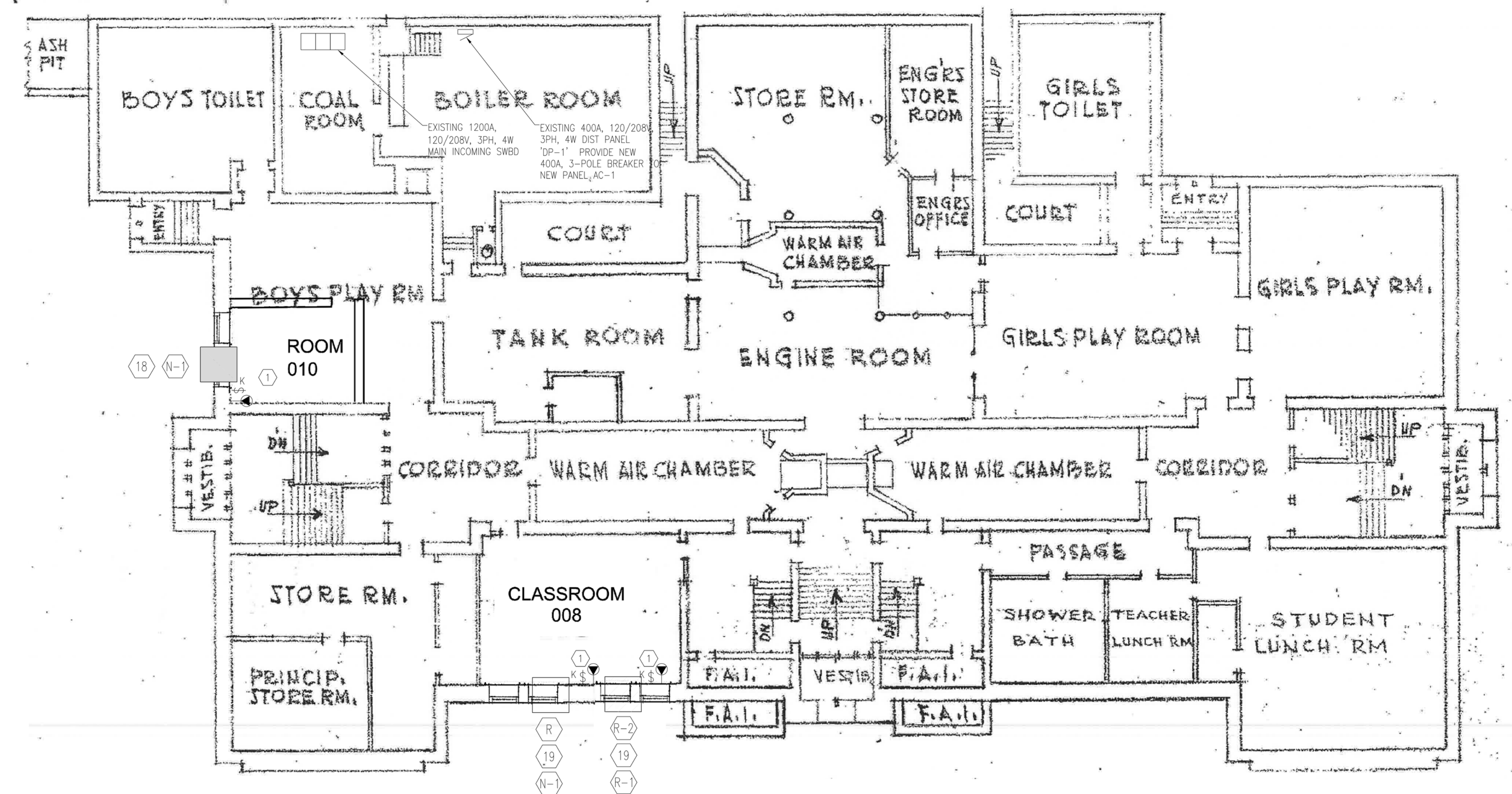
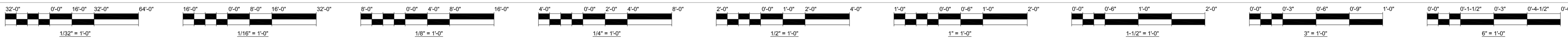
**Architect of Record:**  
 LEGAT ARCHITECTS  
 SUSTAINABILITY | PERFORMANCE | DESIGN  
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 Chicago, Illinois 60661  
 PHONE: 312.258.9595  
 FAX: 312.258.1555  
 WEB: www.legat.com  
 dbHMS design build engineering  
 Chicago, IL  
 MEPFP Engineers of Record

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 LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (29 CFR 1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 02815.13

Mark	Description	Date
	ISSUE FOR BID	05.26.15
1	ISSUE FOR ADDENDA	06.05.15

PBC Project Name: CPS 2015 Summer A/C Program  
 PBC Contract No: C1570  
 Legat Project No: IN15-0039  
 Title

**BASEMENT FLOOR PLAN**  
 Sheet  
**E1.0R**

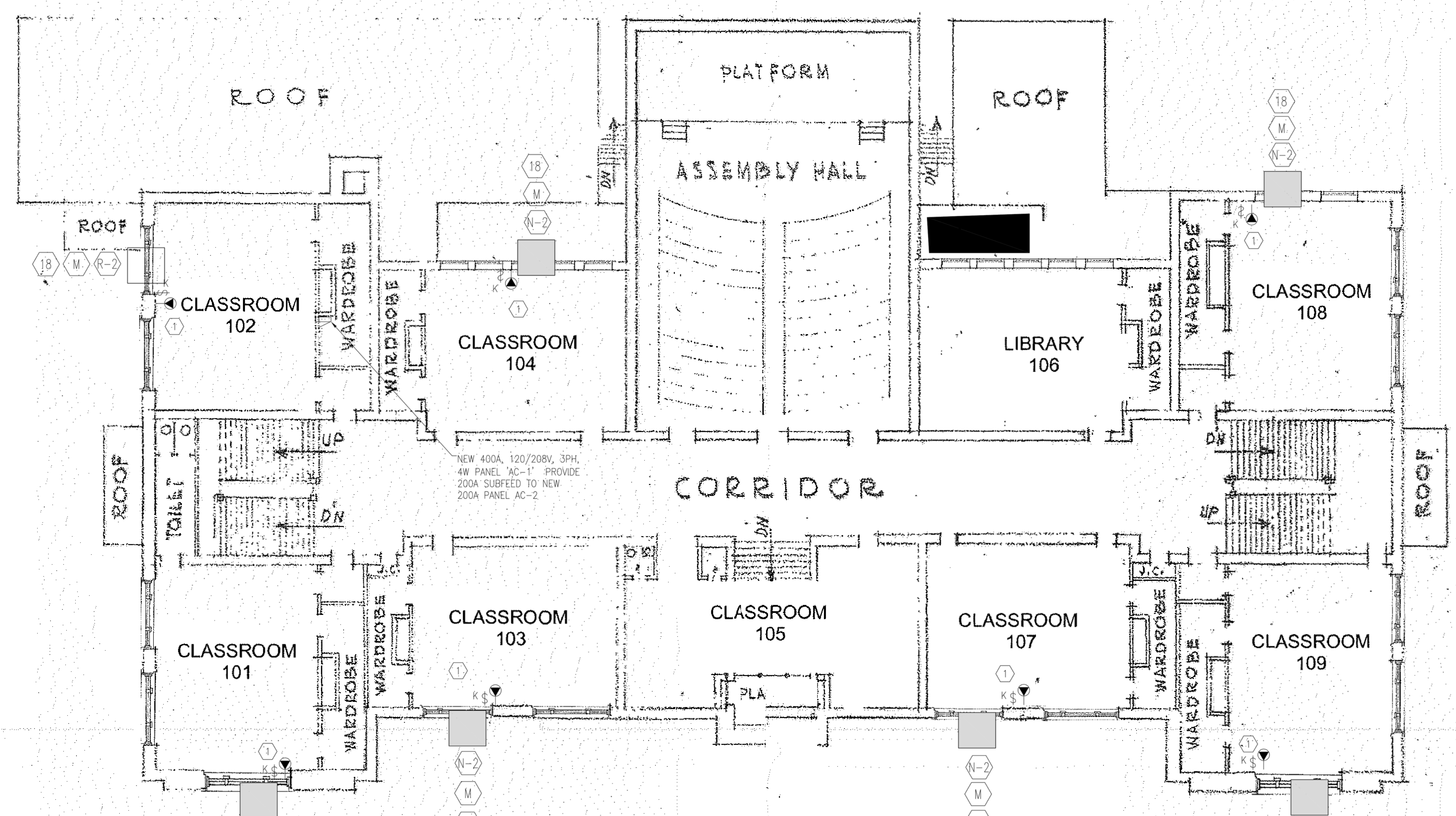


**PLAN KEY**

- EXISTING WINDOW A/C UNIT
- NEW WINDOW A/C UNIT
- EX EXISTING UNIT - NO CHANGE, N.I.C.
- (R/R) REMOVE WINDOW A/C UNIT, REGLAZE LITE
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- (M) MODIFY EXISTING EXTERIOR WINDOW SECURITY SCREEN (SEE DTL. -A1.0, TYP.)

1 BASEMENT FLOOR PLAN  
A1.1 SCALE: 1/16" = 1'-0"

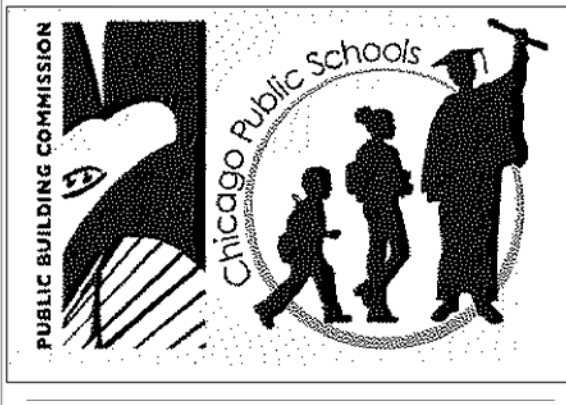
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  - USE NEMA 6-15R RECEPTACLES FOR ALL 1-TON A/C UNITS.



2 FIRST FLOOR PLAN  
A1.1 SCALE: 1/16" = 1'-0"

FIRST FLOOR PLAN  
SCALE = 1" = 24'-0"

- KEY NOTES:**
- PROVIDE A NEW NEMA 6-20R POWER RECEPTACLE AND LOCAL 2-POLE, 20 AMP KEYS TOGGLE DISCONNECT SWITCH FOR NEW AIR CONDITIONING UNIT. CONNECT TO NEW PANEL AC-1 OR AC-2 AS SHOWN ON PANEL SCHEDULES AND PROVIDE A NEW 20A, 2-POLE BREAKER. PROVIDE NEW RACEWAY FOR NEW POWER RECEPTACLES AND KEYS SWITCH BACKBOXES. NEW RACEWAY SHALL BE SURFACE MOUNTED WITH SURFACE MOUNTED METAL RACEWAY (WIREMOLD #700 SERIES). ALL DEVICE BACKBOXES SHALL BE SHALLOW TYPE, SINGLE GANG. PROVIDE NEW BRANCH CIRCUIT WIRING WITH 2 #12 & 1 #12 GRD., IN 3/4" CONDUIT. ALL NEW CONDUIT SHALL BE INSTALLED AND ROUTED WITHIN DROPPED CEILING UNLESS NOTED OTHERWISE. MOUNT KEY SWITCH AT 48" AFF. REUSE ALL EXISTING BRANCH CIRCUITS AS FIELD CONDITIONS ALLOW.
  - PROVIDE A NEW NEMA 6-20R POWER RECEPTACLE AND LOCAL 2-POLE, 20 AMP KEYS TOGGLE DISCONNECT SWITCH FOR NEW AIR CONDITIONING UNIT AND CONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE NEW BRANCH CIRCUIT WIRING WITH 2 #12 & 1 #12 GRD., IN 3/4" CONDUIT AND CONNECT TO EXISTING PANEL AND UPDATE PANEL DIRECTORY.



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**MCCORMICK ELEMENTARY**  
 2712 S. SAWYER AVE.  
 CHICAGO, ILLINOIS 60623  
 CHICAGO PUBLIC SCHOOLS  
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**Architect of Record:**  
 LEGAT ARCHITECTS

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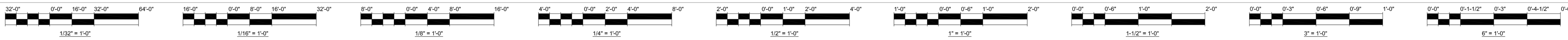
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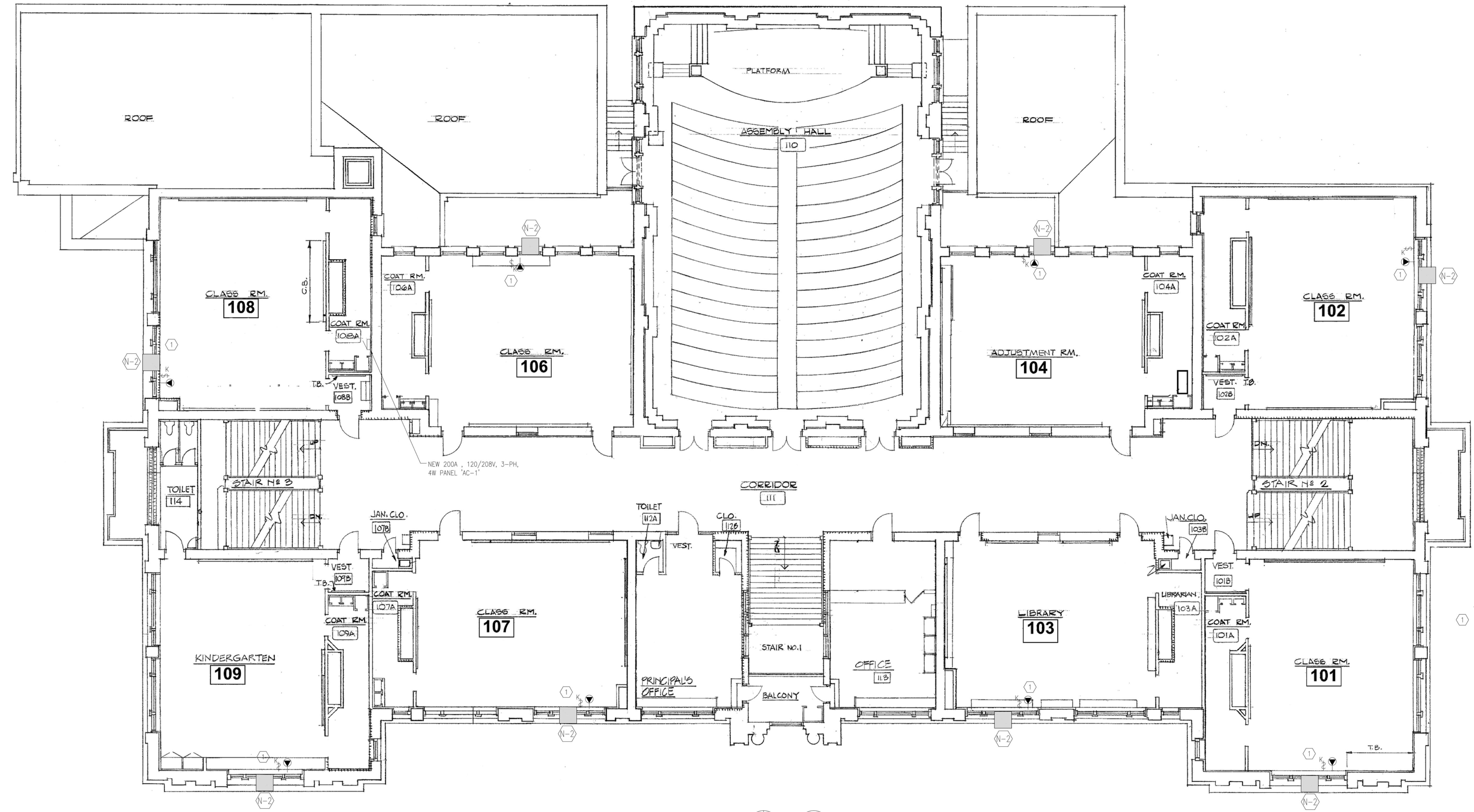
**BASEMENT AND FIRST FLOOR PLANS**

Sheet  
**E1.1R**



**PLAN KEY**

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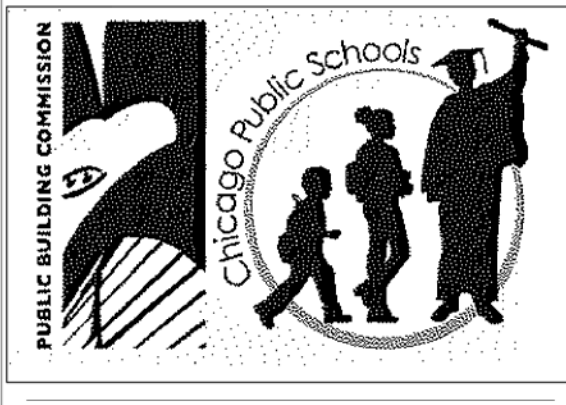


**KEY NOTES:**

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**1 FIRST FLOOR PLAN**  
 A1.1 SCALE: 1/8\"/>

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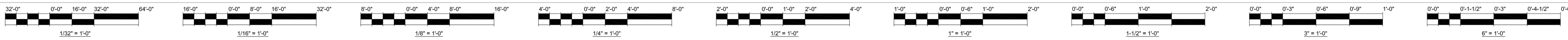
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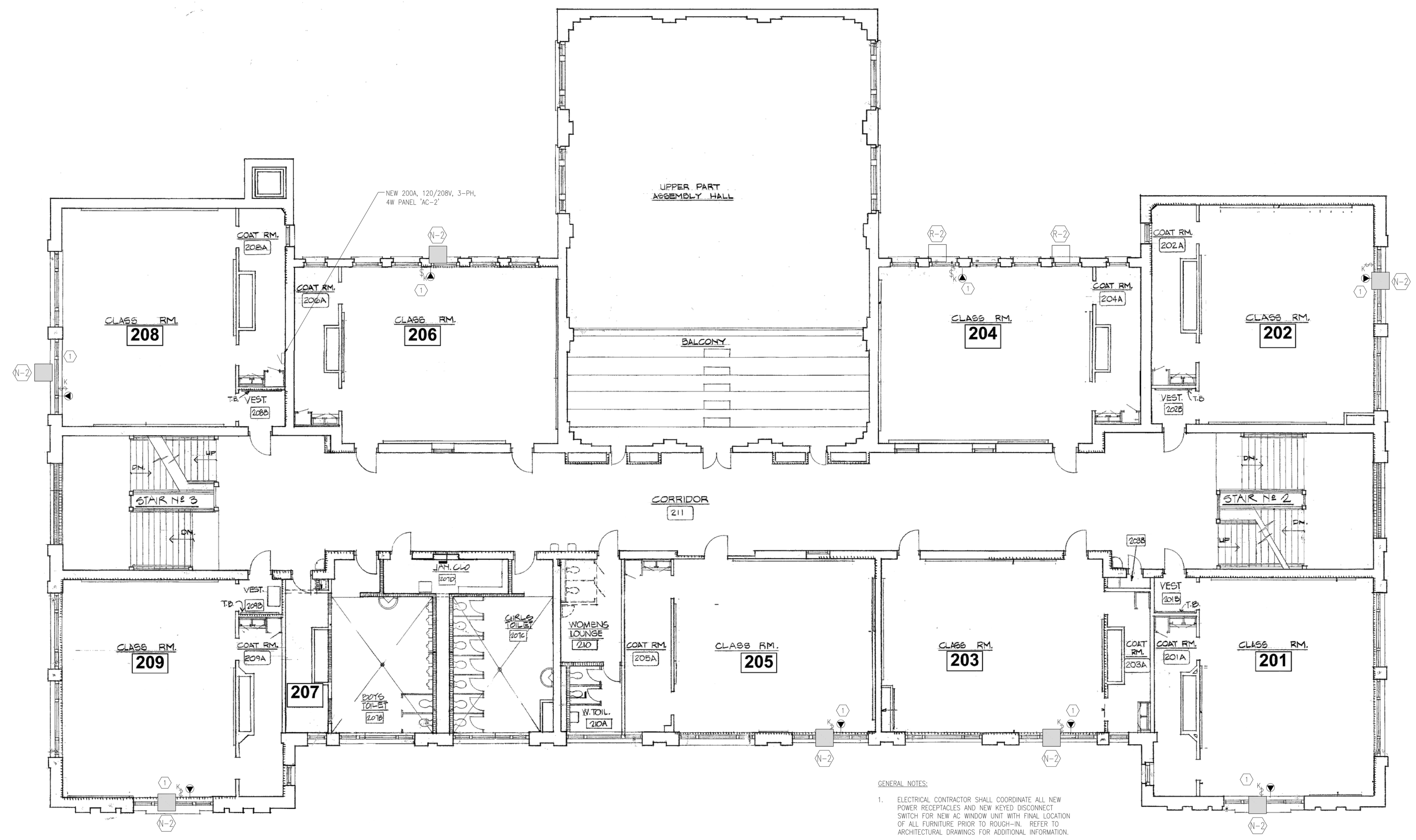
**FIRST FLOOR PLAN**

Sheet  
**E1.1R**



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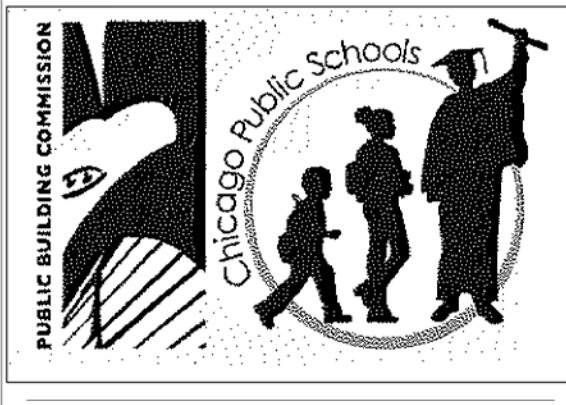


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1 SECOND FLOOR PLAN  
A1.1 SCALE: 1/16" = 1'-0"



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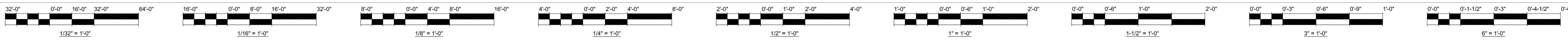
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	ISSUE FOR BID	05.26.15
1	ISSUE FOR ADDENDA	06.05.15

PBC Project Name: CPS 2015 Summer A/C Program  
 PBC Contract No: C1570  
 Legat Project No: IN15-0039  
 Title

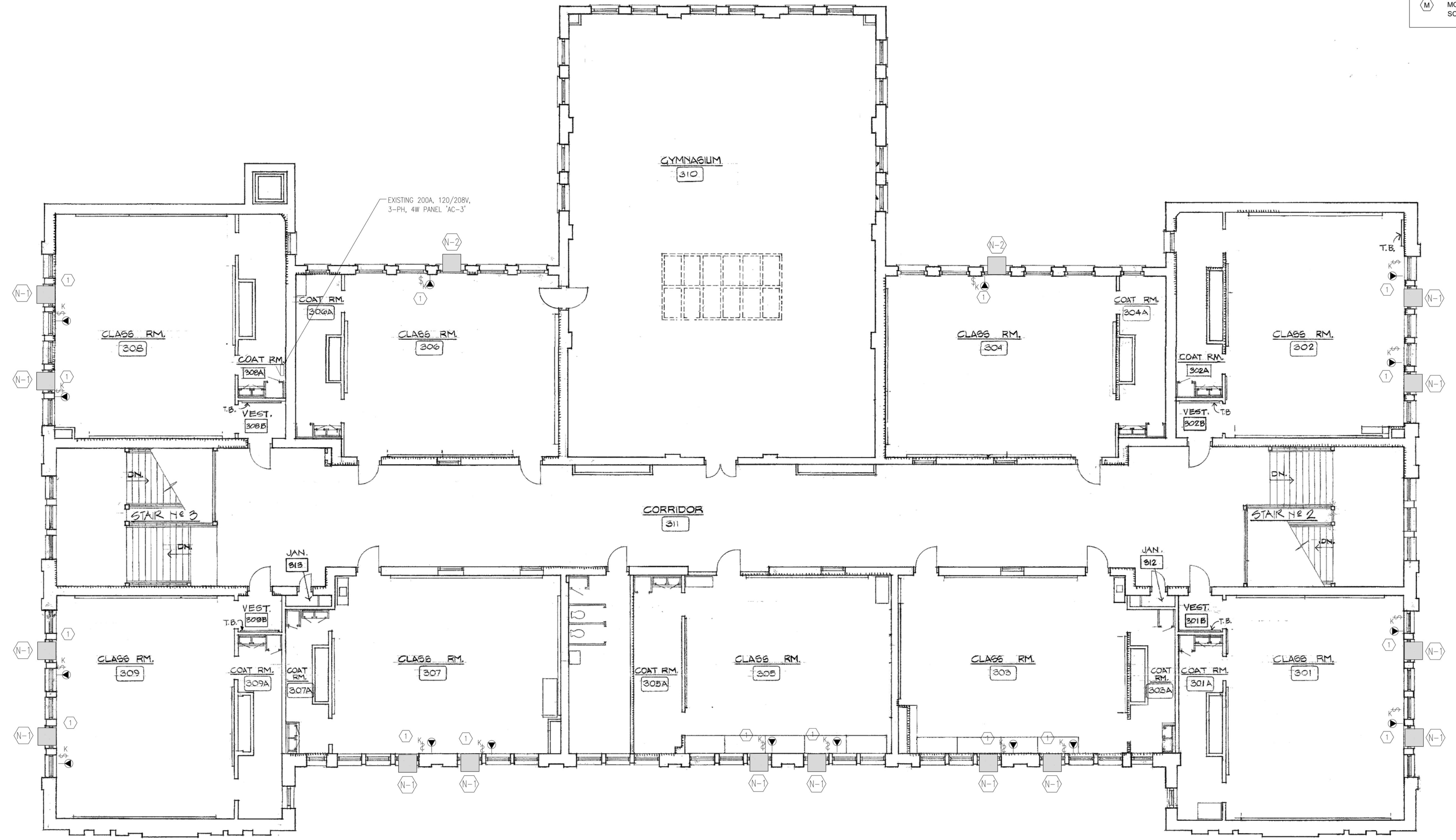
**SECOND FLOOR PLAN**

Sheet  
**E1.2R**



**PLAN KEY**

- EXTG WINDOW A/C UNIT
- NEW WINDOW A/C UNIT
- EX EXTG UNIT - NO CHANGE, N.I.C.
- (R/R) REMOVE WINDOW A/C UNIT, REPLAZE LITE
- (N-1) NEW 1-TON WINDOW A/C UNIT
- (N-2) NEW 2-TON WINDOW A/C UNIT
- (R-1) REPLACE EXTG UNIT w/ NEW 1-TON WINDOW A/C UNIT
- (R-2) REPLACE EXTG UNIT w/ NEW 2-TON WINDOW A/C UNIT
- (S) PROVIDE NEW EXTERIOR WINDOW SECURITY SCREEN
- (M) MODIFY EXISTING EXTERIOR WINDOW SECURITY SCREEN (SEE DTL. -A1.0, TYP.)

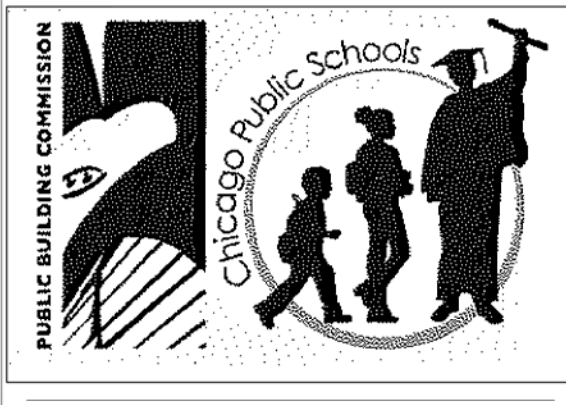


**KEY NOTES:**

1. PROVIDE A NEW NEMA 6-20R POWER RECEPTACLE AND LOCAL 2-POLE, 20 AMP KEYED TOGGLE DISCONNECT SWITCH FOR NEW AIR CONDITIONING UNIT. CONNECT TO NEW PANEL AC-1 OR AC-2 AS SHOWN ON PANEL SCHEDULES AND PROVIDE A NEW 20A, 2-POLE BREAKER. PROVIDE NEW RACEWAY FOR NEW POWER RECEPTACLES AND KEYED SWITCH BACKBOXES. NEW RACEWAY SHALL BE SURFACE MOUNTED WITH SURFACE MOUNTED METAL RACEWAY (WIREMOLD V700 SERIES). ALL DEVICE BACKBOXES SHALL BE SHALLOW TYPE, SINGLE GANG. PROVIDE NEW BRANCH CIRCUIT WIRING WITH 2 #12 & 1 #12 GRD. IN 3/4" CONDUIT. ALL NEW CONDUIT SHALL BE INSTALLED AND ROUTED WITHIN DROPPED CEILING UNLESS NOTED OTHERWISE. MOUNT KEY SWITCH AT 48" AFF. REUSE ALL EXISTING BRANCH CIRCUITS AS FIELD CONDITIONS ALLOW.

- GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL NEW POWER RECEPTACLES AND NEW KEYED DISCONNECT SWITCH FOR NEW AC WINDOW UNIT WITH FINAL LOCATION OF ALL FURNITURE PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
  3. ALL A/C UNITS TO BE FURNISHED BY CPS.
  4. REMOVE AND REPLACE ALL EXISTING RECEPTACLES AND KEY SWITCHES WHERE NEW A/C UNITS ARE TO BE INSTALLED.
  5. USE NEMA 6-15R RECEPTACLES FOR ALL 1-TON A/C UNITS.

1 THIRD FLOOR PLAN  
A1.1 SCALE: 1/8"=1'-0"



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 CHICAGO PUBLIC SCHOOLS  
 CITY OF CHICAGO, MAYOR RAHMI EMANUEL

Architect of Record:  
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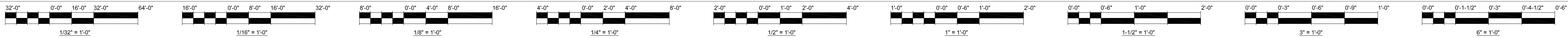
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**THIRD FLOOR PLAN**

Sheet  
**E1.3R**





**EXISTING PANELBOARD AC2-1**

DESCRIPTION		CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION
					A	B	C				
M	AC RM 204(EXISTING)	1	20A-2P	1332	2664			1332	20A-2P	2	M AC RM 102(EXISTING)
W		3		1332	2664	2664		1332		4	M AC RM 102(EXISTING)
W	AC RM 204(EXISTING)	5	20A-2P	1332		2664		1332	20A-2P	6	M AC RM 102(EXISTING)
		7		1332	2664			1332		8	M AC RM 102(EXISTING)
	SPACE	9	20A-2P				1332	1332	20A-2P	10	M AC RM 104(EXISTING)
		11					1332	1332		12	M AC RM 104(EXISTING)
	SPACE	13			1332			1332	20A-2P	14	M AC RM 104(EXISTING)
	SPACE	15			1332			1332		16	M AC RM 201
	SPACE	17			1332	1332		1332	20A-2P	18	M AC RM 201
	SPACE	19			1332			1332		20	M AC RM 02
	SPACE	21			1332	1332		1332	20A-2P	22	M AC RM 02
	SPACE	23			1332			1332		24	M AC RM 205
	SPACE	25			1332	1332		1332	20A-2P	26	M AC RM 205
	SPACE	27			1332			1332		28	M AC RM 205
	SPACE	29					0		20A-2P	30	SPACE
	SPACE	31			0					32	SPACE
	SPACE	33				0			20A-2P	34	SPACE
	SPACE	35				0				36	SPACE
	SPACE	37			0				20A-2P	38	SPACE
	SPACE	39				0				40	SPACE
	SPACE	41					0			42	SPACE
TOTAL VA PER PHASE					9324	7992	6660				
CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD							
L LIGHTING	0.00 KVA		1.00		0.00 KVA						
R RECEPTACLES	0.00 KVA		0.50		0.00 KVA						
W MOTOR / EQUIP.	22.64 KVA		1.00		22.64 KVA						
H ELECTRIC HEAT	0.00 KVA		1.00		0.00 KVA						
TOTAL CONNECTED LOAD:		TOTAL DEMAND LOAD:		TOTAL DEMAND CURRENT:							
22.64 KVA		22.6 KVA		62.86 AMPS							

**EXISTING PANELBOARD AC2-2**

DESCRIPTION		CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION
					A	B	C				
M	AC RM 110(EXISTING)	1	20A-2P	1332	2664			1332	20A-2P	2	M AC RM 206(EXISTING)
W		3		1332	2664	2664		1332		4	M AC RM 206(EXISTING)
W	AC RM 110(EXISTING)	5	20A-2P	1332		2664		1332	20A-2P	6	M AC RM 206(EXISTING)
		7		1332	2664			1332		8	M AC RM 206(EXISTING)
	SPACE	9	20A-2P				1332	1332	20A-2P	10	M AC RM 211(EXISTING)
		11					1332	1332		12	M AC RM 211(EXISTING)
	SPACE	13			1332	2664		1332	20A-2P	14	M AC RM 211(EXISTING)
	SPACE	15			1332			1332		16	M AC RM 211(EXISTING)
	SPACE	17			1332	2664		1332	20A-2P	18	M AC RM 212(EXISTING)
	SPACE	19			1332			1332		20	M AC RM 212(EXISTING)
	SPACE	21			1332	2664		1332	20A-2P	22	M AC RM 212(EXISTING)
	SPACE	23			1332			1332		24	M AC RM 212(EXISTING)
	SPACE	25			1332	2664		1332	20A-2P	26	M AC RM 301
	SPACE	27			1332			1332		28	M AC RM 301
	SPACE	29			1332	2664		1332	20A-2P	30	M AC RM 303
	SPACE	31			1332			1332		32	M AC RM 303
	SPACE	33			1332	2664		1332	20A-2P	34	SPACE
	SPACE	35					0			36	SPACE
	SPACE	37			0				20A-2P	38	SPACE
	SPACE	39					0			40	SPACE
	SPACE	41					0			42	SPACE
TOTAL VA PER PHASE					16200	13488	13488				
CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD							
L LIGHTING	0.00 KVA		1.00		0.00 KVA						
R RECEPTACLES	0.00 KVA		0.50		0.00 KVA						
W MOTOR / EQUIP.	43.30 KVA		1.00		43.30 KVA						
H ELECTRIC HEAT	0.00 KVA		1.00		0.00 KVA						
TOTAL CONNECTED LOAD:		TOTAL DEMAND LOAD:		TOTAL DEMAND CURRENT:							
43.30 KVA		43.3 KVA		120.19 AMPS							

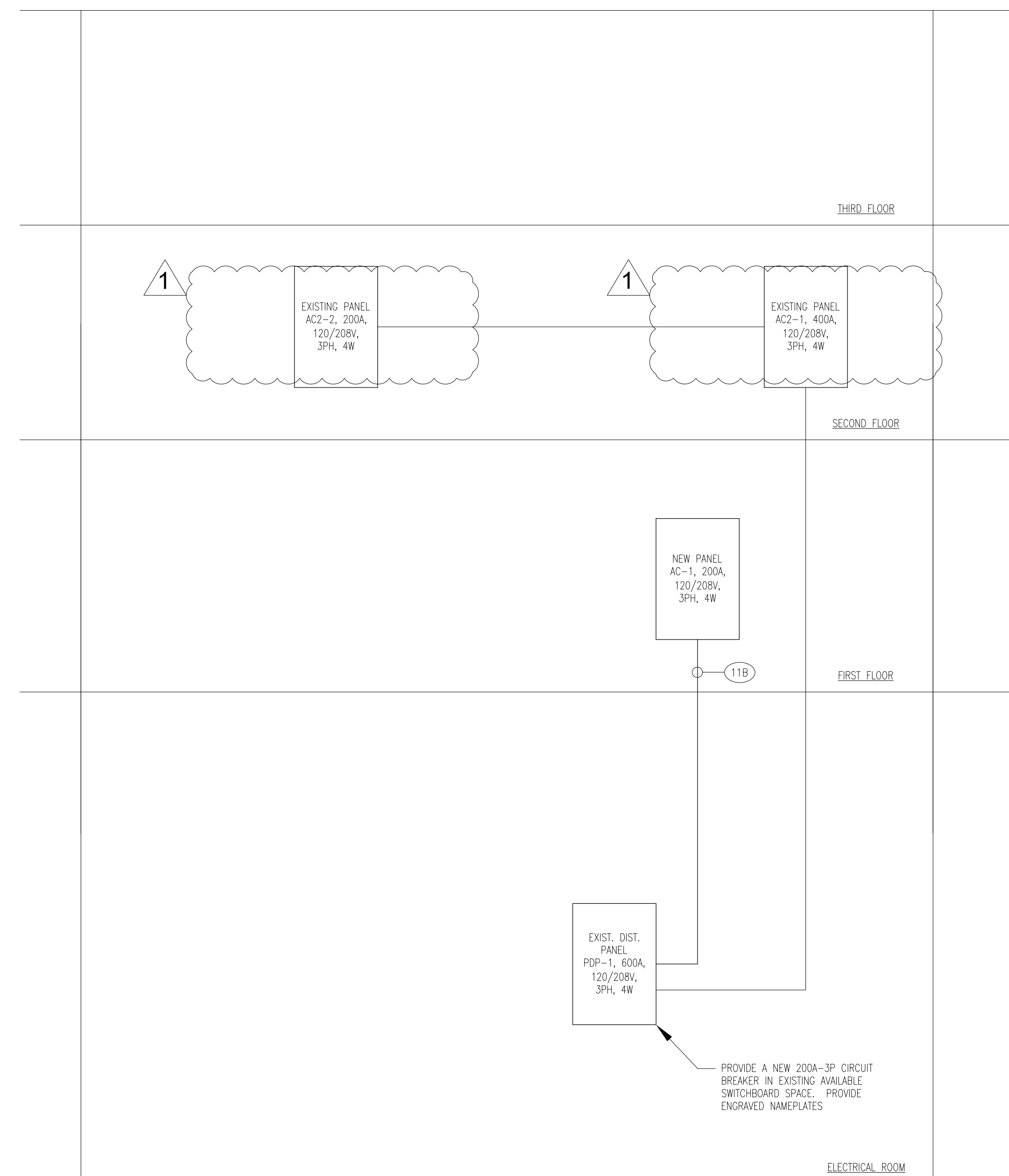
**NEW PANELBOARD AC1**

DESCRIPTION		CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION
					A	B	C				
M	AC RM B01	1	20A-2P	1332	2664			1332	20A-2P	2	M AC RM 101
W		3		1332	2664	2664		1332		4	M AC RM 101
W	AC RM B02	5	20A-2P	1332		2664		1332	20A-2P	6	M AC RM 103
		7		1332	2664			1332		8	M AC RM 103
	SPACE	9	20A-2P				1332	1332	20A-2P	10	M AC RM 105
		11					1332	1332		12	M AC RM 105
	SPACE	13			1332	2664		1332	20A-2P	14	M AC RM 105
	SPACE	15			1332			1332		16	M AC RM 105
	SPACE	17			1332	2664		1332	20A-2P	18	M AC RM 107
	SPACE	19			1332			1332		20	M AC RM 107
	SPACE	21			1332	2664		1332	20A-2P	22	M AC RM 109
	SPACE	23			1332			1332		24	M AC RM 109
	SPACE	25			1332	2664		1332	20A-2P	26	M AC RM 109
	SPACE	27			1332			1332		28	M AC RM 109
	SPACE	29			1332	2664		1332	20A-2P	30	M AC RM 105
	SPACE	31			1332			1332		32	M AC RM 105
	SPACE	33			1332	2664		1332	20A-2P	34	SPACE
	SPACE	35					0			36	SPACE
	SPACE	37			1332	1332		1332	20A-2P	38	SPACE
	SPACE	39			1332			1332		40	SPACE
	SPACE	41					0			42	SPACE
TOTAL VA PER PHASE					15316	15984	14652				
CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD							
L LIGHTING	0.00 KVA		1.00		0.00 KVA						
R RECEPTACLES	0.00 KVA		0.50		0.00 KVA						
W MOTOR / EQUIP.	47.95 KVA		1.00		47.95 KVA						
H ELECTRIC HEAT	0.00 KVA		1.00		0.00 KVA						
TOTAL CONNECTED LOAD:		TOTAL DEMAND LOAD:		TOTAL DEMAND CURRENT:							
47.95 KVA		48.0 KVA		133.11 AMPS							

**GENERAL NOTE:**

1. PROVIDE A NEW 20A-2P BRANCH CIRCUIT BREAKER FOR EACH NEW A/C UNIT. UPDATE PANELBOARD DIRECTORY.

THREE PHASE POWER FEEDER SCHEDULE				
TABLE B: FEEDER-BRANCH CIRCUITS 3Ø				
4W WITH GC "NEUTRAL" & "GROUND" EGC				
CKT	PWR	STR	Cu THWN-2 OR	COND
AMPS	TAG	XHHW-2 AWG	- Kcmil	SIZE
20	1B	4 #12 & 1 #12	EGC	3/4"
30	2B	4 #10 & 1 #10	EGC	3/4"
50	3B	4 #8 & 1 #8	EGC	3/4"
65	4B	4 #6 & 1 #8	EGC	1"
85	5B	4 #4 & 1 #8	EGC	1.5"
100	6B	4 #3 & 1 #8	EGC	1.5"
115	7B	4 #2 & 1 #8	EGC	1.5"
130	8B	4 #1 & 1 #6	EGC	1.5"
150	9B	4 #1/0 & 1 #6	EGC	2"
175	10B	4 #2/0 & 1 #6	EGC	2"
200	11B	4 #3/0 & 1 #6	EGC	2"
230	12B	4 #4/0 & 1 #4	EGC	2.5"
255	13B	4 #250 & 1 #4	EGC	2.5"
310	14B	4 #350 & 1 #4	EGC	3"
335	15B	4 #400 & 1 #4	EGC	3"
380	16B	4 #500 & 1 #3	EGC	4"
420	17B	4 #600 & 1 #3	EGC	4"



**E5.01** ELECTRICAL ONE-LINE RISER DIAGRAM  
SCALE: N.T.S.



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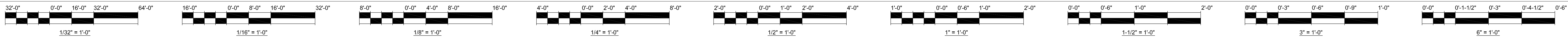
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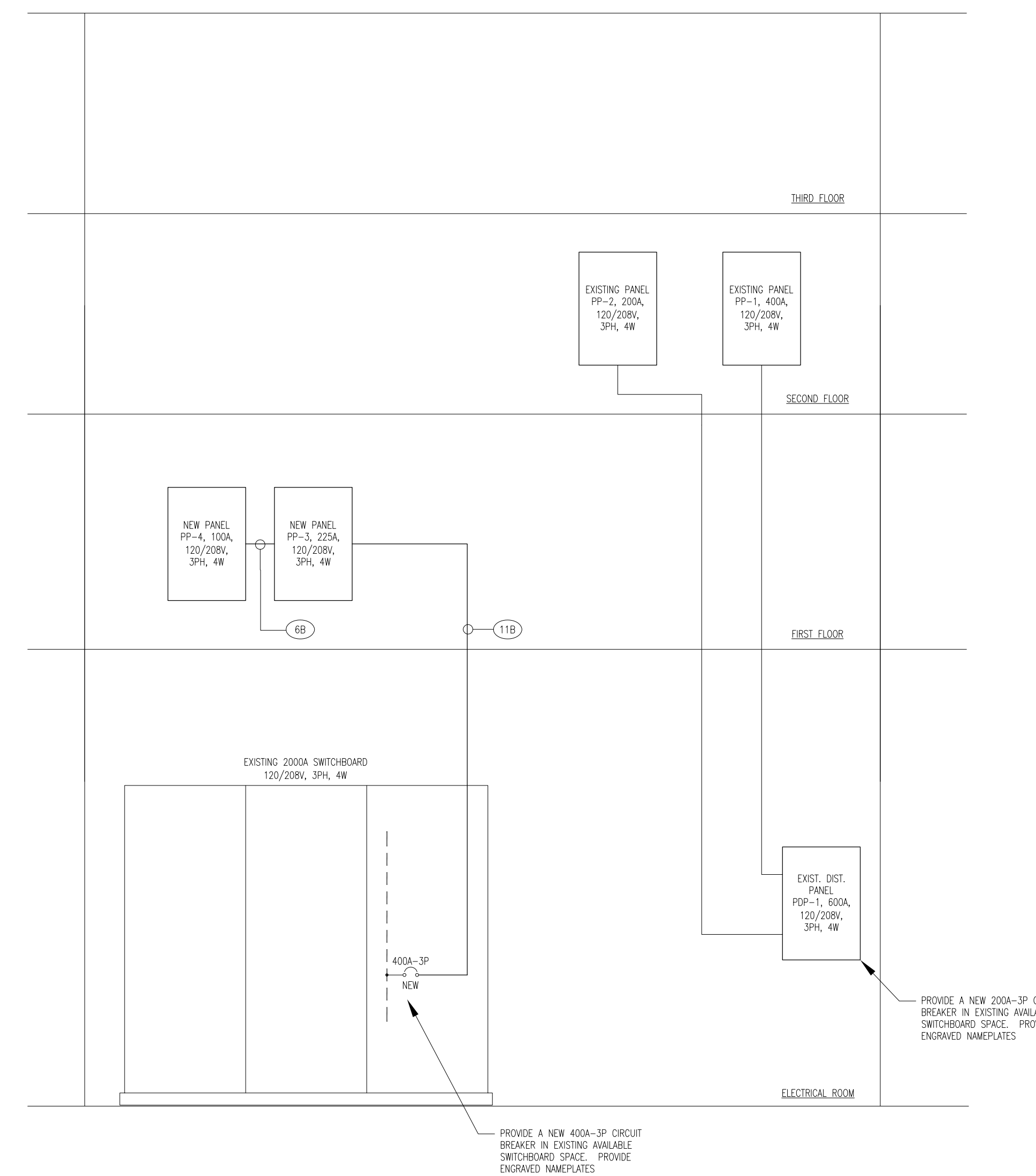
Title: **ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM, SCHEDULES, AND DETAILS**

Sheet  
**E5.0R**



**THREE PHASE POWER FEEDER SCHEDULE**

TABLE B: FEEDER-BRANCH CIRCUITS 3Ø 4W WITH GC "NEUTRAL" & "GROUND" EGC				
CKT	PWR	STR	Cu THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE
20	1B	4 #12 & 1 #12 EGC		3/4"
30	2B	4 #10 & 1 #10 EGC		3/4"
50	3B	4 #8 & 1 #8 EGC		3/4"
65	4B	4 #6 & 1 #8 EGC		1"
85	5B	4 #4 & 1 #8 EGC		1.5"
100	6B	4 #3 & 1 #8 EGC		1.5"
115	7B	4 #2 & 1 #8 EGC		1.5"
130	8B	4 #1 & 1 #6 EGC		1.5"
150	9B	4 #1/0 & 1 #6 EGC		2"
175	10B	4 #2/0 & 1 #6 EGC		2"
200	11B	4 #3/0 & 1 #6 EGC		2"
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255	13B	4 #250 & 1 #4 EGC		2.5"
310	14B	4 #350 & 1 #4 EGC		3"
335	15B	4 #400 & 1 #4 EGC		3"
380	16B	4 #500 & 1 #3 EGC		4"
420	17B	4 #600 & 1 #3 EGC		4"



1  
E5.01  
SCALE: N.T.S.

**ELECTRICAL ONE-LINE RISER DIAGRAM**



**CPS 2015 SUMMER A/C PROGRAM**

**PULASKI INTERNATIONAL SCHOOL**

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CHICAGO, IL 60686

CHICAGO PUBLIC SCHOOLS  
CITY OF CHICAGO, MAYOR RAHMI EMANUEL

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Sheet  
**E5.1R**