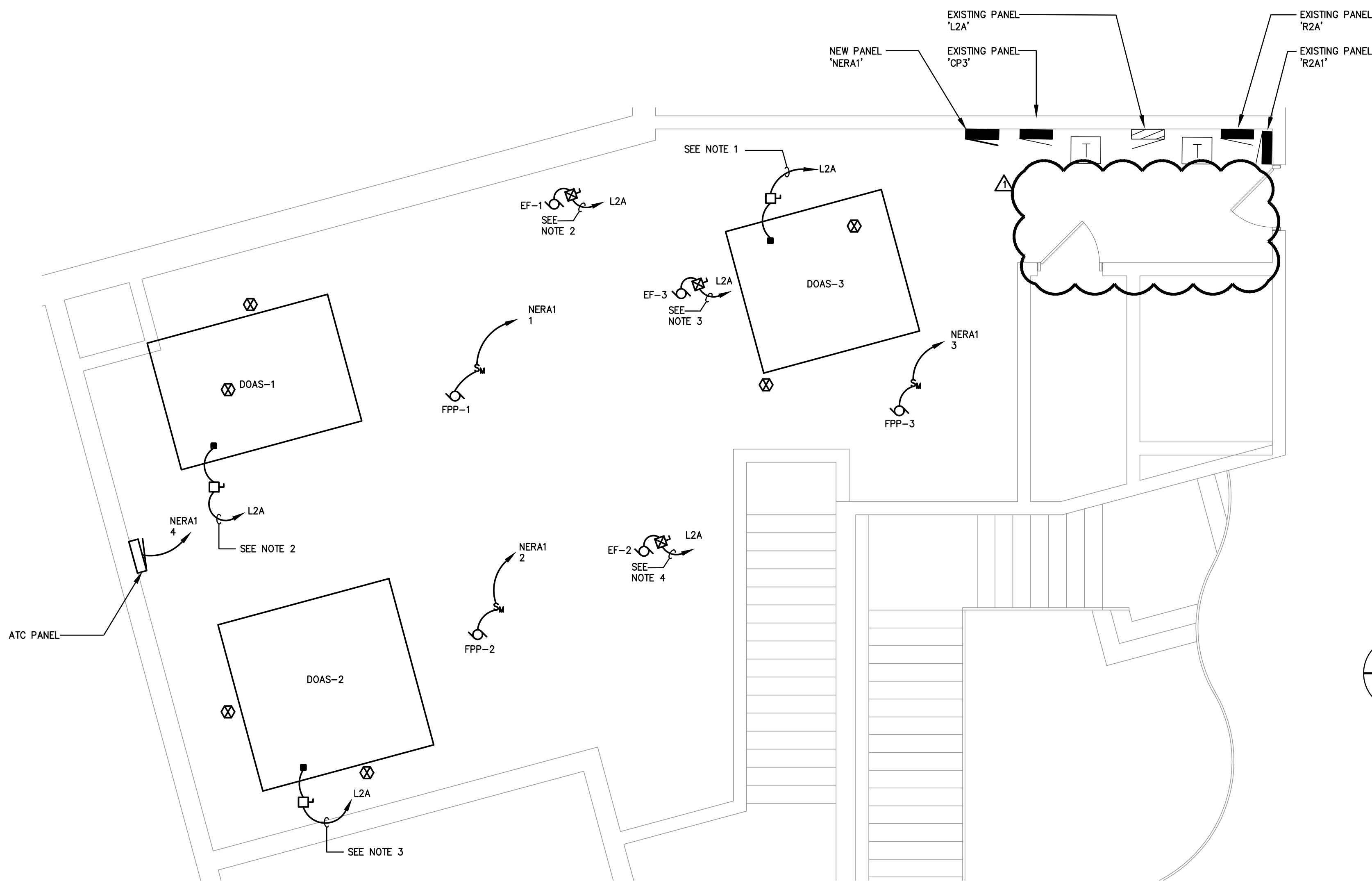
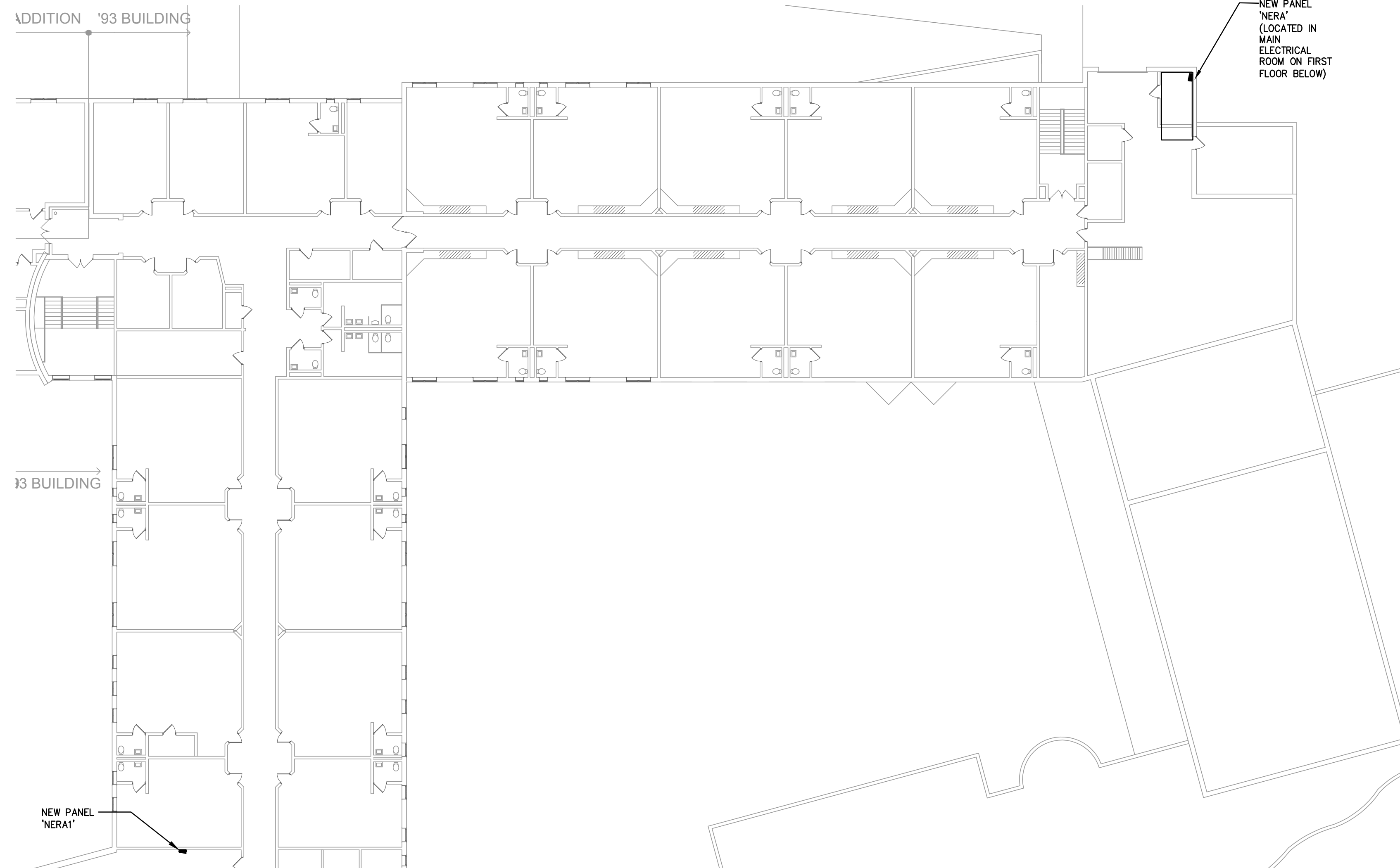


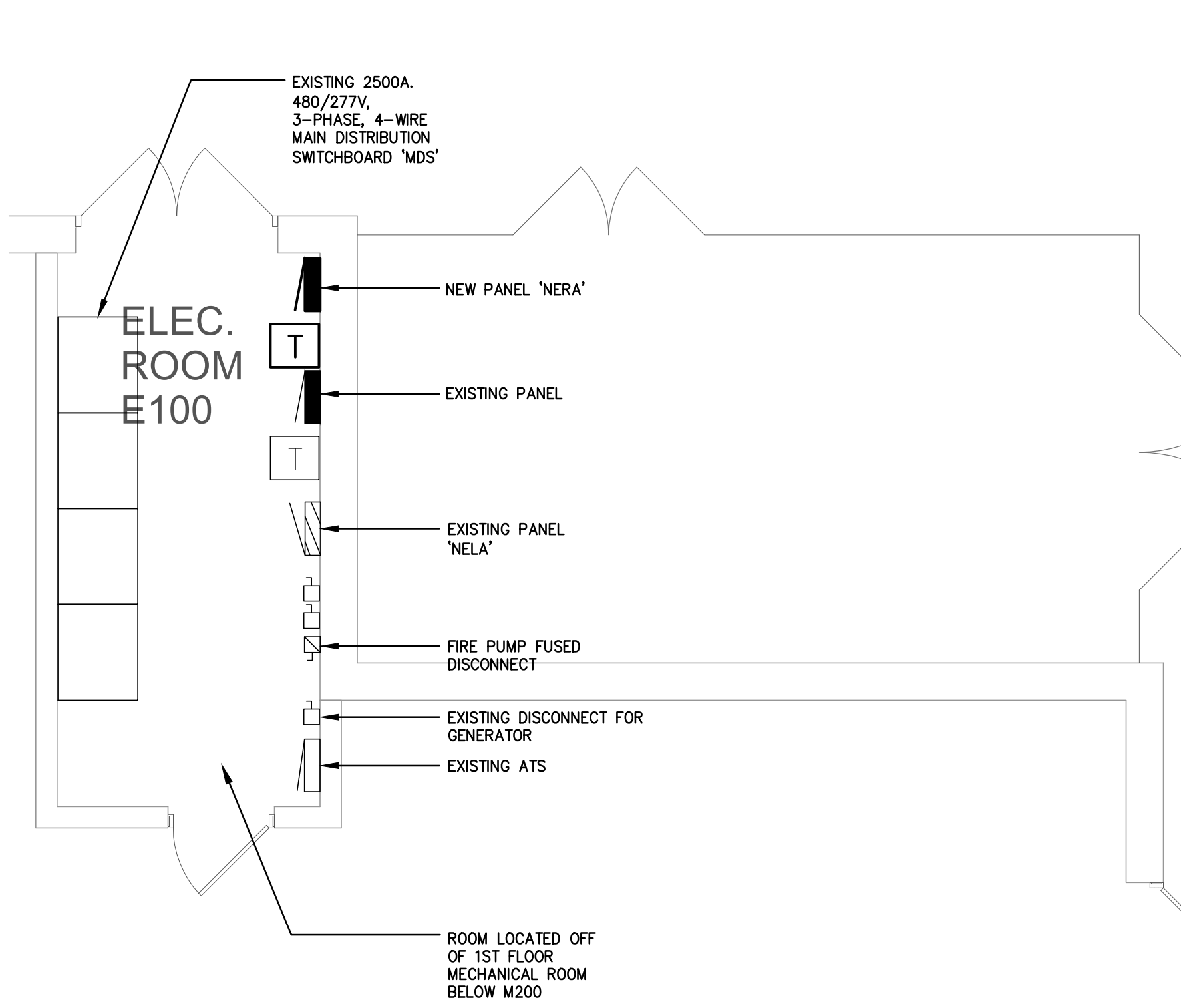


1  
E1.1 2ND FLOOR MECHANICAL ROOM - 03 PLAN - ELECTRICAL BASEBID  
SCALE 1/4" = 1'-0"

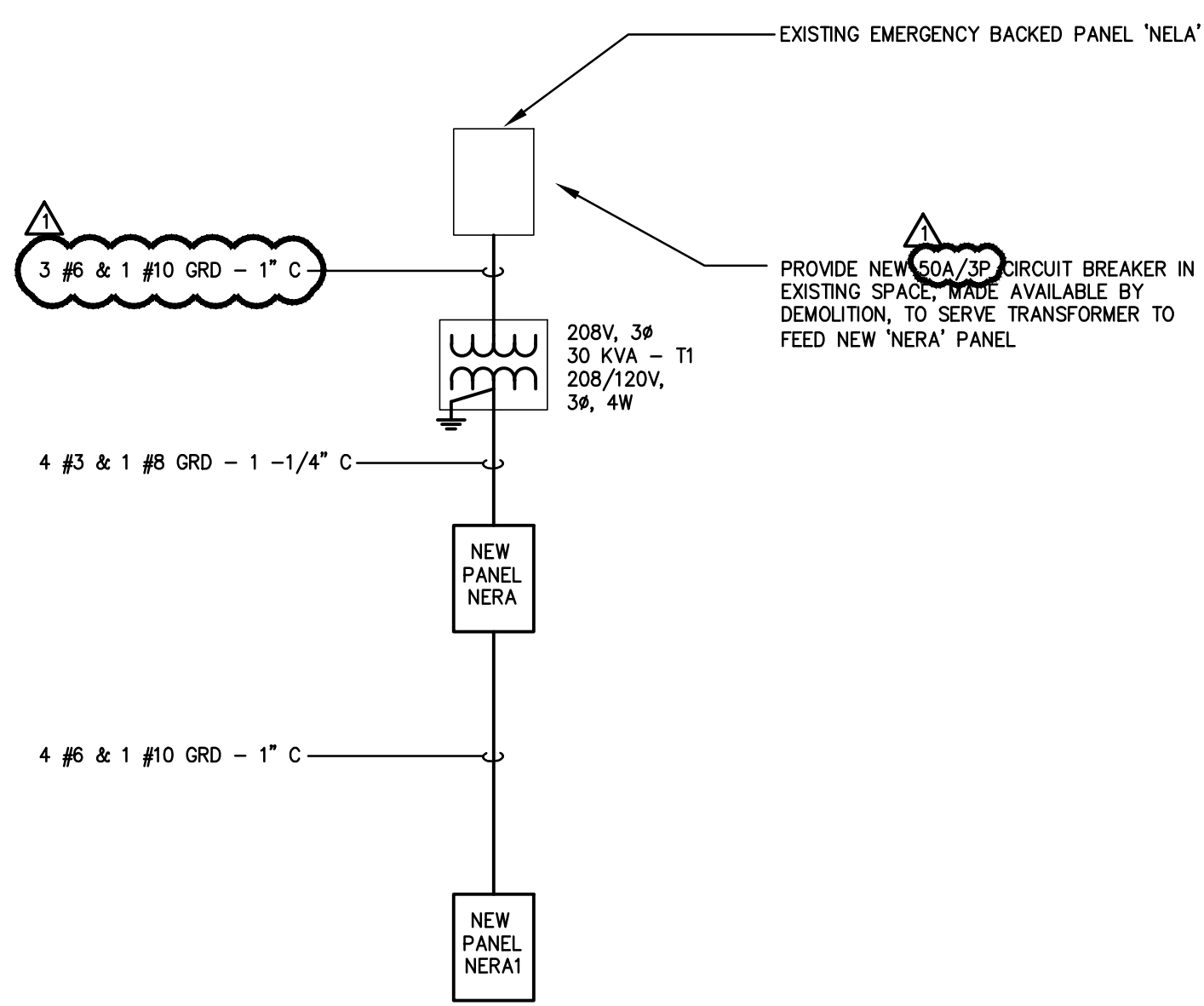
- NOTES:
1. PROVIDE AND CONNECT TO NEW 20A/3P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 3 #12 & 1 #12 GRD - 3/4"C.
  2. PROVIDE AND CONNECT TO NEW 30A/3P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 3 #10 & 1 #10 GRD - 3/4"C.
  3. PROVIDE AND CONNECT TO NEW 40A/3P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 3 #8 & 1 #10 GRD - 1"C.
  4. PROVIDE AND CONNECT TO NEW 50A/3P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 3 #6 & 1 #10 GRD - 1"C.



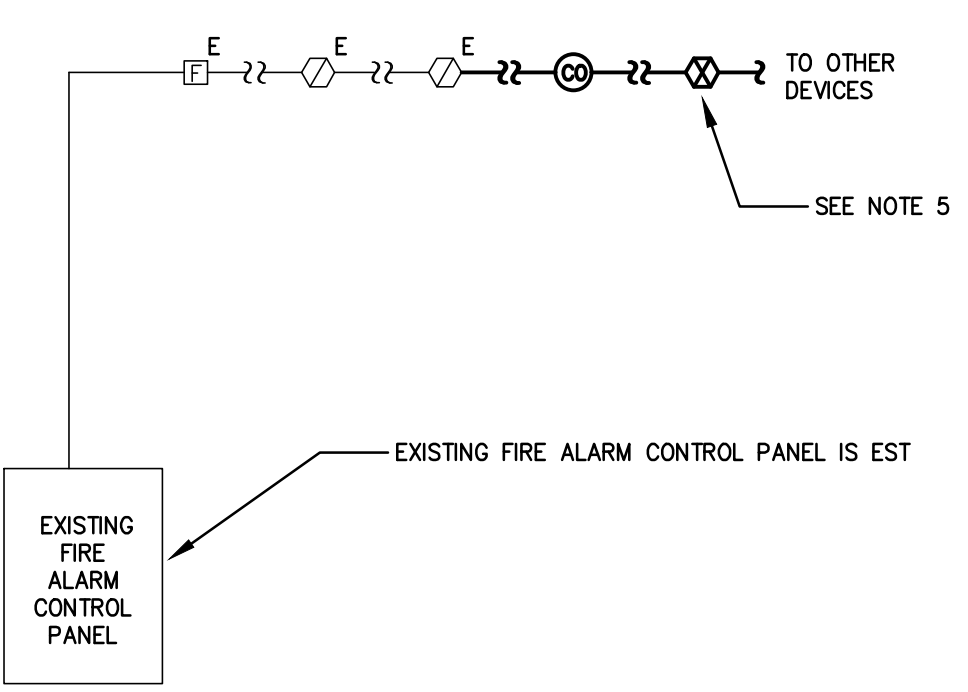
5  
E1.1 2ND FLOOR PLAN - ELECTRICAL BASEBID  
SCALE 1" = 20'-0"



2  
E1.1 FIRST FLOOR MAIN ELECTRICAL ROOM - ELECTRICAL BASEBID  
SCALE 1/4" = 1'-0"



3  
E1.1 SINGLE LINE DIAGRAM  
SCHEMATIC



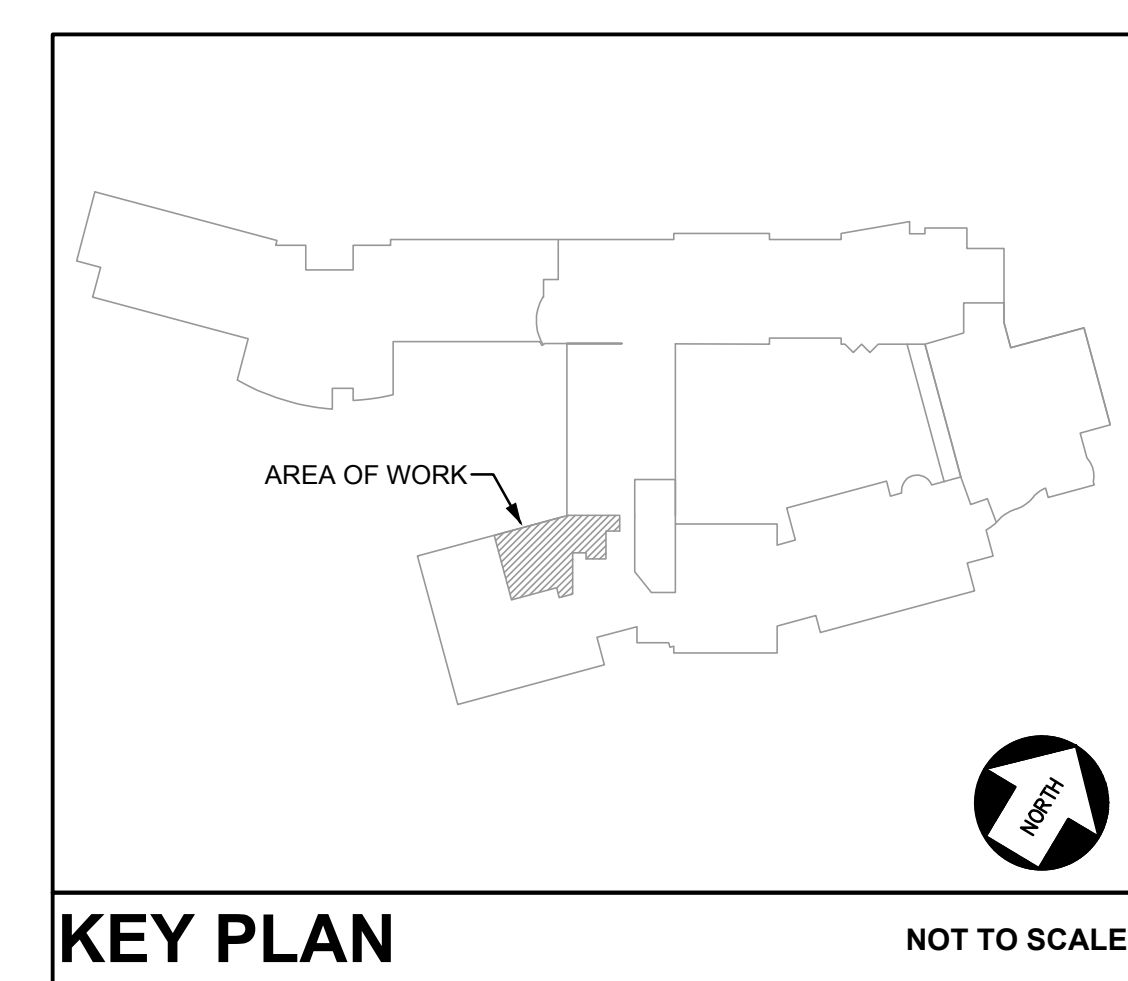
4  
E1.1 FIRE ALARM SYSTEM RISER DIAGRAM  
SCHEMATIC

FIRE ALARM SYSTEM NOTES:

1. PROVIDE ALL WIRING AS RECOMMENDED BY MANUFACTURER. ALL WIRING SHALL BE IN CONDUIT. FIRE ALARM LABELED MC CABLE MAY BE USED IN CONCEALED LOCATIONS WHERE PERMITTED BY CODE.
2. CONTRACTOR IS RESPONSIBLE FOR INSURING THAT FIRE ALARM SYSTEM MODIFICATIONS MEET ALL APPLICABLE CODES AND FOR OBTAINING FINAL APPROVAL FROM LOCAL FIRE INSPECTOR(S).
3. PRIOR TO STARTING WORK, PREPARE SHOP DRAWINGS INCLUDING ALL INFORMATION REQUIRED UNDER IBC-2018, SECTION 907.1.2. SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. ONCE APPROVED, SUBMIT SHOP DRAWINGS TO CODE REVIEWER/INSPECTOR(S) FOR APPROVAL.
4. EXPAND EXISTING FIRE ALARM SYSTEM AS REQUIRED TO CONNECT NEW DEVICES. PROVIDE ALL NEW HARDWARE, RELAYS, MODULES, WIRING, BATTERIES, ETC., AS NECESSARY FOR COMPLETE INSTALLATION.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING QUANTITY AND LOCATION OF DUCT MOUNTED SMOKE DETECTORS, BASED ON APPROVED HVAC SHOP DRAWINGS.
6. PROVIDE INTERCONNECTION WIRING BETWEEN HVAC EQUIPMENT AND FIRE ALARM CONTROL PANEL AS REQUIRED FOR FAN SHUTDOWN.
7. PROVIDE ALL PROGRAMMING BY A FACTORY CERTIFIED VENDOR AS REQUIRED TO MAKE THE NECESSARY MODIFICATION TO THE SYSTEM. INCLUDE ANY HARDWARE, WIRING, OF COMPONENTS NECESSARY FOR CONTINUED REUSE.
8. ALL FIRE ALARM CONTROL PANELS, REMOTE ANNUNCIATORS, AND BOOSTER PANELS SHALL HAVE SMOKE DETECTORS COVERAGE ABOVE. PROVIDE DEVICES WHETHER SHOWN ON PLANS OR NOT.
9. UPON COMPLETION OF FIRE ALARM WORK, PROVIDE A RE-ACCEPTANCE TEST OF THE ENTIRE SYSTEM PER NFPA 72.

| PANELBOARD 'NERA'                                                     |                 |       |      |    |                            |                           |
|-----------------------------------------------------------------------|-----------------|-------|------|----|----------------------------|---------------------------|
| 208/120V, 3ø, 4W, S/N, SURFACE, 100A/3P MAIN CIRCUIT BREAKER, 22 KAIC |                 |       |      |    |                            |                           |
| CKT. NO.                                                              | CIRCUIT BREAKER |       | LOAD |    | CIRCUIT DESCRIPTION        | WIRE & CONDUIT            |
|                                                                       | AMPS            | POLES | KVA  | HP |                            |                           |
| 1                                                                     | 60              | 3     | -    | -  | SUBPANEL NERA1 IN MECH 201 | SEE SINGLE LINE DIAGRAM   |
| 2                                                                     | 20              | 1     | -    | -  | BOILER 1                   | 2 #12 & 1 #12 GRD - 3/4"C |
| 3                                                                     | 20              | 1     | -    | -  | BOILER 2                   | 2 #12 & 1 #12 GRD - 3/4"C |
| 4                                                                     | 20              | 1     | -    | -  | BOILER 3                   | 2 #12 & 1 #12 GRD - 3/4"C |
| 5                                                                     | 20              | 1     | -    | -  | BOILER SHUT DOWN PANEL     | 2 #12 & 1 #12 GRD - 3/4"C |
| 6                                                                     | 20              | 1     | -    | -  | FFP-4                      | 2 #12 & 1 #12 GRD - 3/4"C |
| 7                                                                     | 20              | 1     | -    | -  | FFP-5                      | 2 #12 & 1 #12 GRD - 3/4"C |
| 8                                                                     | 20              | 1     | -    | -  | FFP-6                      | 2 #12 & 1 #12 GRD - 3/4"C |
| 9                                                                     | 20              | 1     | -    | -  | ATC CONTROL PANEL          | 2 #12 & 1 #12 GRD - 3/4"C |
| 10                                                                    | 20              | 1     | -    | -  | WATER TREATMENT CONTROLLER | 2 #12 & 1 #12 GRD - 3/4"C |
| 11                                                                    | 20              | 1     | -    | -  | SPARE                      | -                         |
| 12                                                                    | 20              | 1     | -    | -  | SPARE                      | -                         |
| 13                                                                    | 20              | 1     | -    | -  | SPARE                      | -                         |
| 14                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 15                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 16                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 17                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 18                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 19                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 20                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 21                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 22                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 23                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 24                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 25                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 26                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 27                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| 28                                                                    | -               | 1     | -    | -  | SPACE                      | -                         |
| TOTAL CONNECTED LOAD                                                  |                 |       |      |    |                            | -                         |

| PANELBOARD 'NERA1'                                          |                 |       |      |    |                     |                           |
|-------------------------------------------------------------|-----------------|-------|------|----|---------------------|---------------------------|
| 208/120V, 3ø, 4W, S/N, SURFACE, 60A MAIN LUGS ONLY, 22 KAIC |                 |       |      |    |                     |                           |
| CKT. NO.                                                    | CIRCUIT BREAKER |       | LOAD |    | CIRCUIT DESCRIPTION | WIRE & CONDUIT            |
|                                                             | AMPS            | POLES | KVA  | HP |                     |                           |
| 1                                                           | 20              | 1     | -    | -  | FFP1                | 2 #12 & 1 #12 GRD - 3/4"C |
| 2                                                           | 20              | 1     | -    | -  | FFP2                | 2 #12 & 1 #12 GRD - 3/4"C |
| 3                                                           | 20              | 1     | -    | -  | FFP3                | 2 #12 & 1 #12 GRD - 3/4"C |
| 4                                                           | 20              | 1     | -    | -  | ATC PANEL           | 2 #12 & 1 #12 GRD - 3/4"C |
| 5                                                           | 20              | 1     | -    | -  | SPARE               | -                         |
| 6                                                           | 20              | 1     | -    | -  | SPARE               | -                         |
| 7                                                           | 20              | 1     | -    | -  | SPARE               | -                         |
| 8                                                           | 20              | 1     | -    | -  | SPARE               | -                         |
| 9                                                           | 20              | 1     | -    | -  | SPARE               | -                         |
| 10                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 11                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 12                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 13                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 14                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 15                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 16                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 17                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 18                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 19                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 20                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 21                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 22                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 23                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 24                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 25                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 26                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 27                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 28                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 29                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| 30                                                          | -               | 1     | -    | -  | SPACE               | -                         |
| TOTAL CONNECTED LOAD                                        |                 |       |      |    |                     | -                         |



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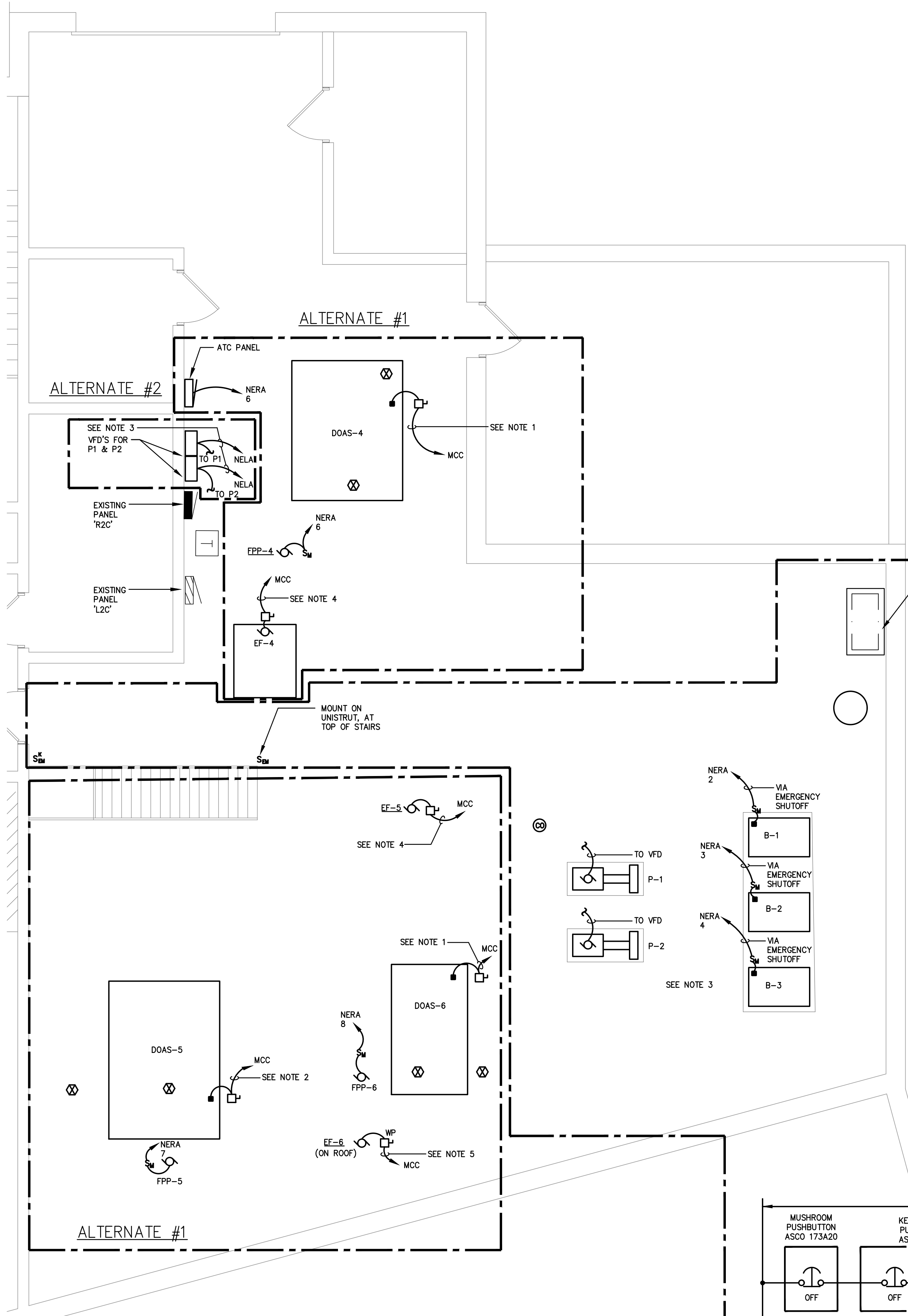
KELTER & GILLIGO  
consulting engineers  
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FARMINGTON, CONNECTICUT 06031  
Phone: 860.274.9100  
Professional Engineer  
NJ 38656

FAN COIL, AIR HANDLER & BOILER REPLAC'TS  
COLD SPRINGS SCHOOL  
1194 MARKET STREET  
GLOUCESTER CITY, NJ 08030  
BASE BID - ELECTRICAL

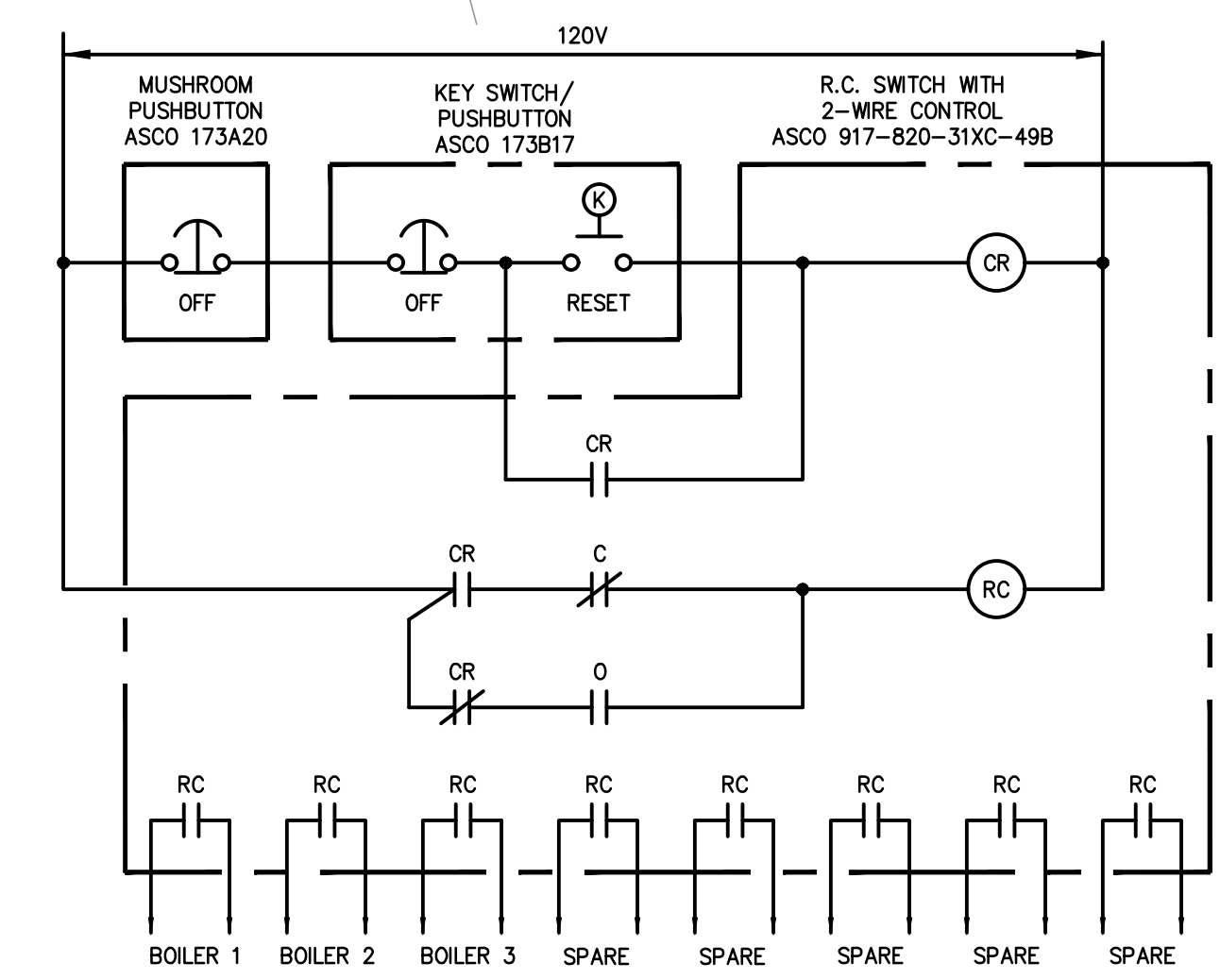
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5 OF 8

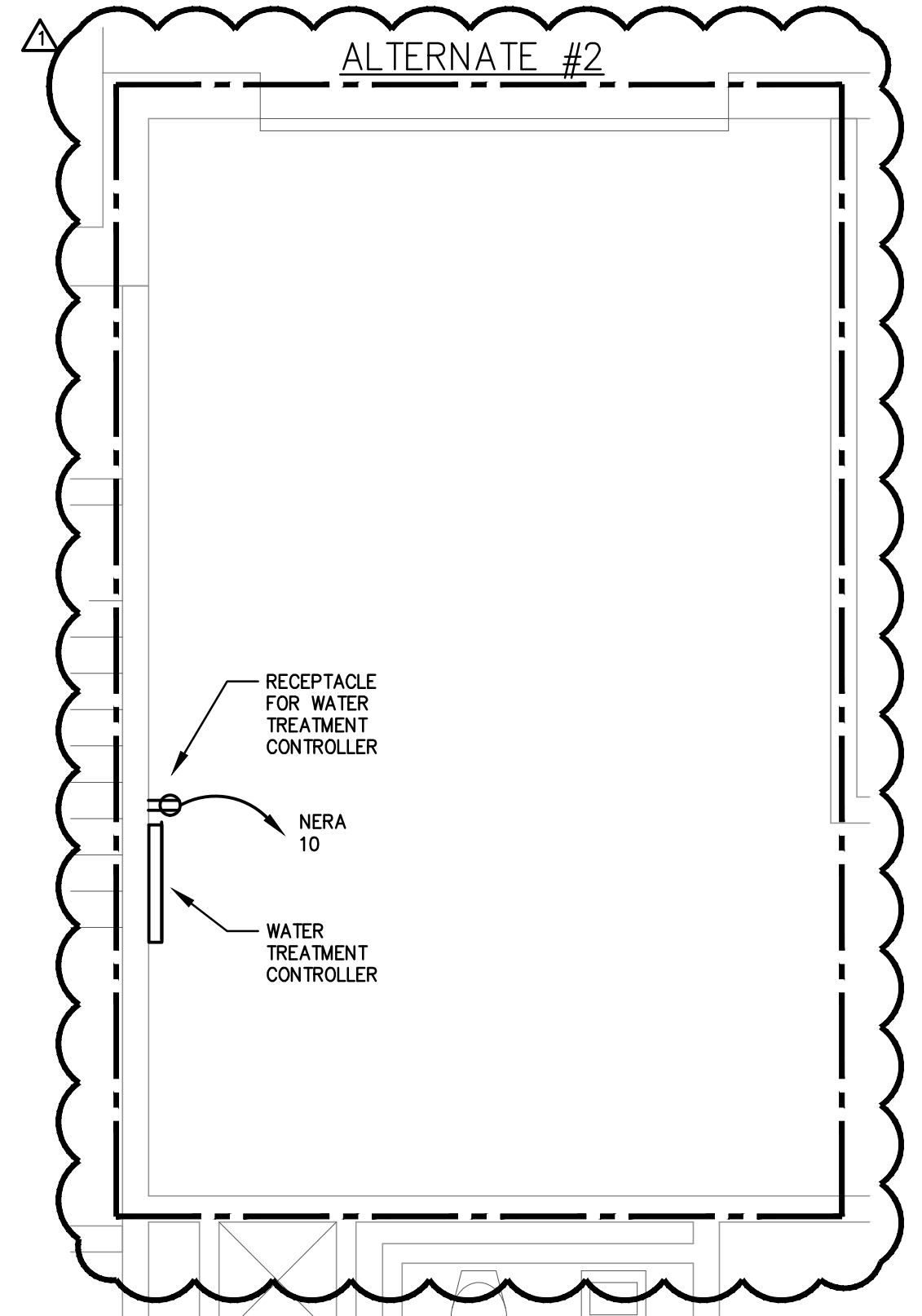




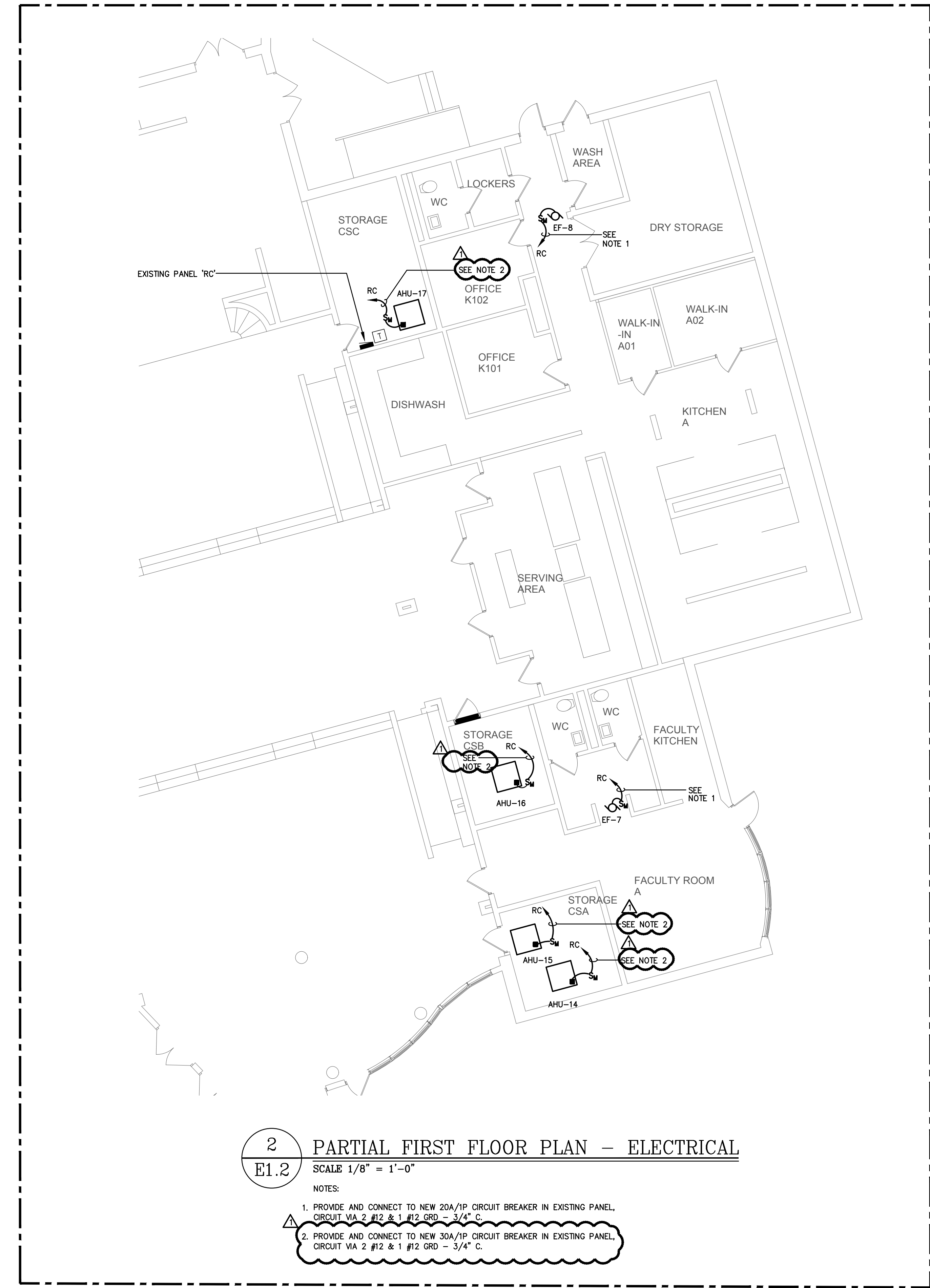
1  
E1.2 2ND FLOOR MECHANICAL ROOM - 02 - ELECTRICAL  
SCALE 1/4" = 1'-0"  
NOTES:  
1. PROVIDE AND CONNECT TO NEW 15A/3P CIRCUIT BREAKER IN EXISTING PANEL VIA 3 #12 & 3 #12 - 3/4"C.  
2. PROVIDE AND CONNECT TO NEW 30A/3P CIRCUIT BREAKER IN EXISTING PANEL VIA 3 #10 & 3 #10 - 3/4"C.  
3. PROVIDE AND CONNECT TO NEW 50A/3P CIRCUIT BREAKER IN EXISTING PANEL VIA 3 #8 & 1 #10 GRD - 1"C.  
4. PROVIDE AND CONNECT TO NEW 30A/3P CIRCUIT BREAKER AND STARTER IN MOTOR CONTROL CENTER, CIRCUIT VIA 3 #10 & 1 #10 GRD - 3/4"C.  
5. PROVIDE AND CONNECT TO NEW 15A/3P CIRCUIT BREAKER AND STARTER IN MOTOR CONTROL CENTER, CIRCUIT VIA 3 #12 & 1 #12 GRD - 3/4"C.



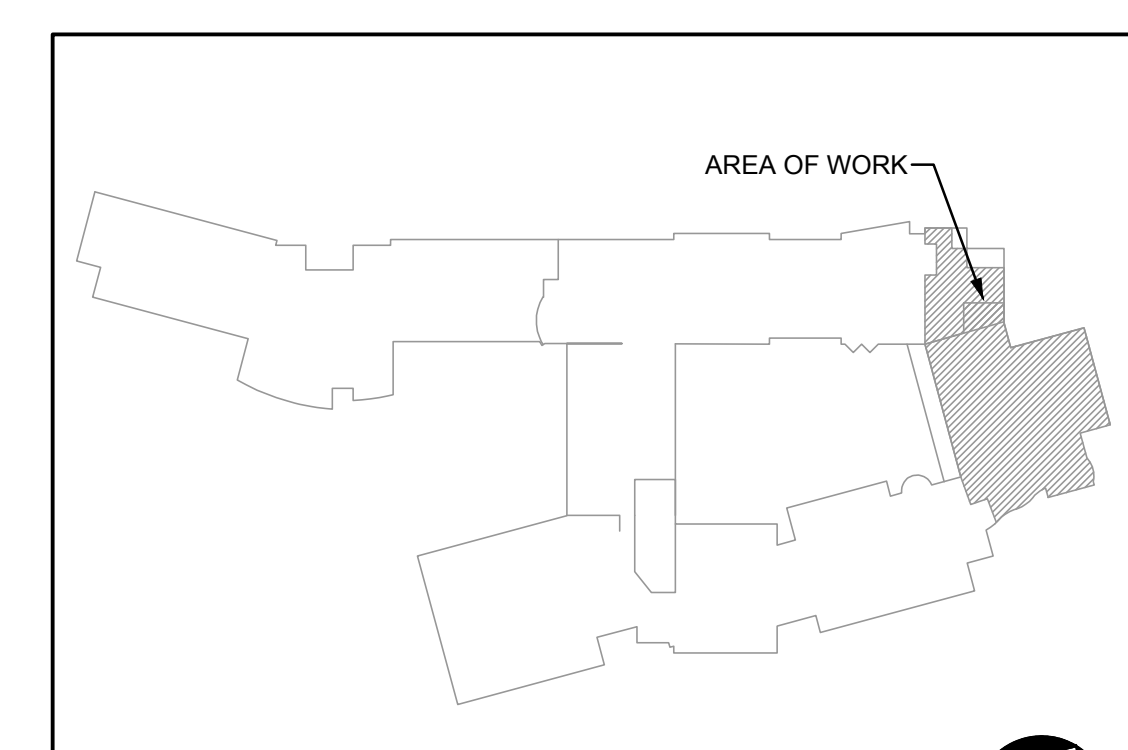
3  
E1.2 WIRING DIAGRAM FOR BOILER ROOM  
EMERGENCY SHUT DOWN  
SCHEMATIC



4  
E1.2 1ST FLOOR MECHANICAL ROOM - 01 - ELECTRICAL  
SCALE 1/4" = 1'-0"



2  
E1.2 PARTIAL FIRST FLOOR PLAN - ELECTRICAL  
SCALE 1/8" = 1'-0"  
NOTES:  
1. PROVIDE AND CONNECT TO NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 2 #12 & 1 #12 GRD - 3/4"C.  
2. PROVIDE AND CONNECT TO NEW 30A/1P CIRCUIT BREAKER IN EXISTING PANEL, CIRCUIT VIA 2 #12 & 1 #12 GRD - 3/4"C.



KEY PLAN  
NOT TO SCALE

NJDOE SP #07-1770-160-21-1-1000

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COLD SPRINGS SCHOOL  
1194 MARKET STREET  
GLOUCESTER CITY, NJ 08030  
TITLE  
ALTERNATE 01 & ALTERNATE 02 - ELECTRICAL

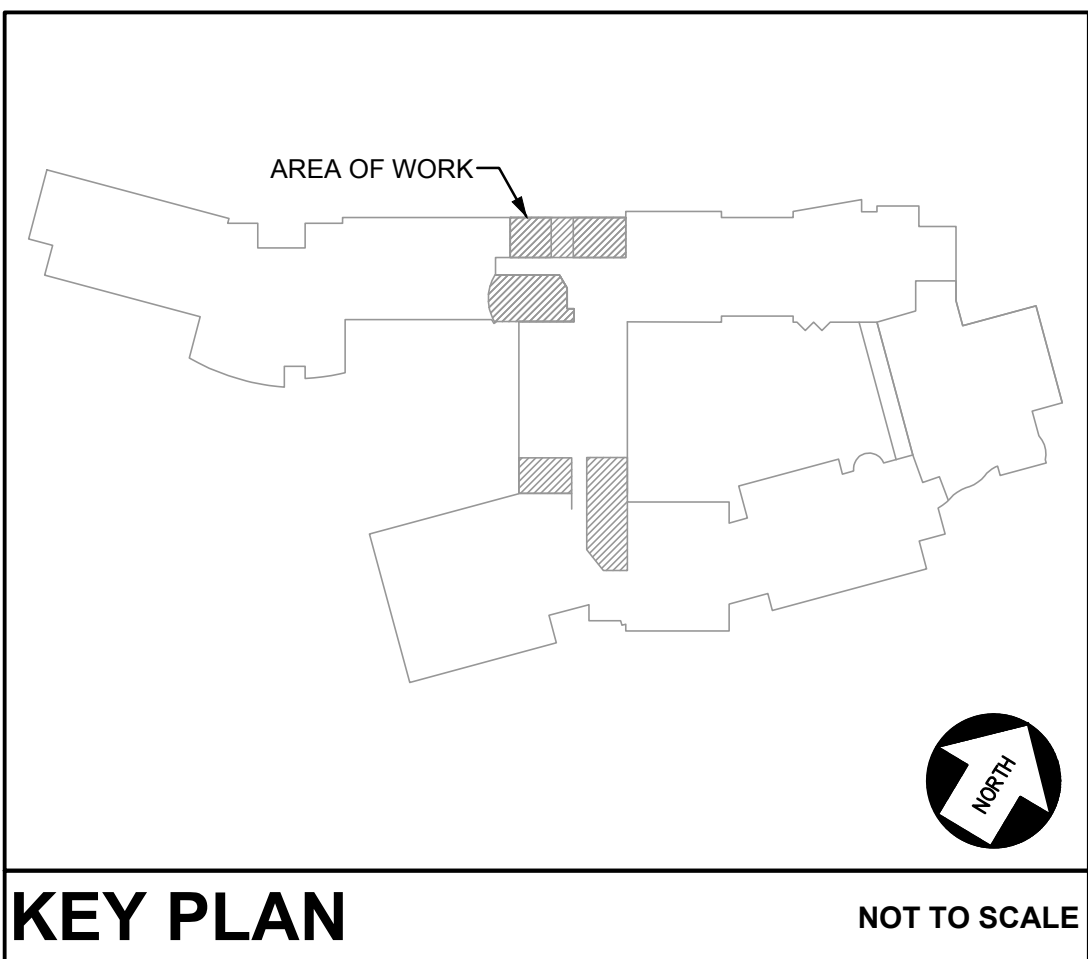
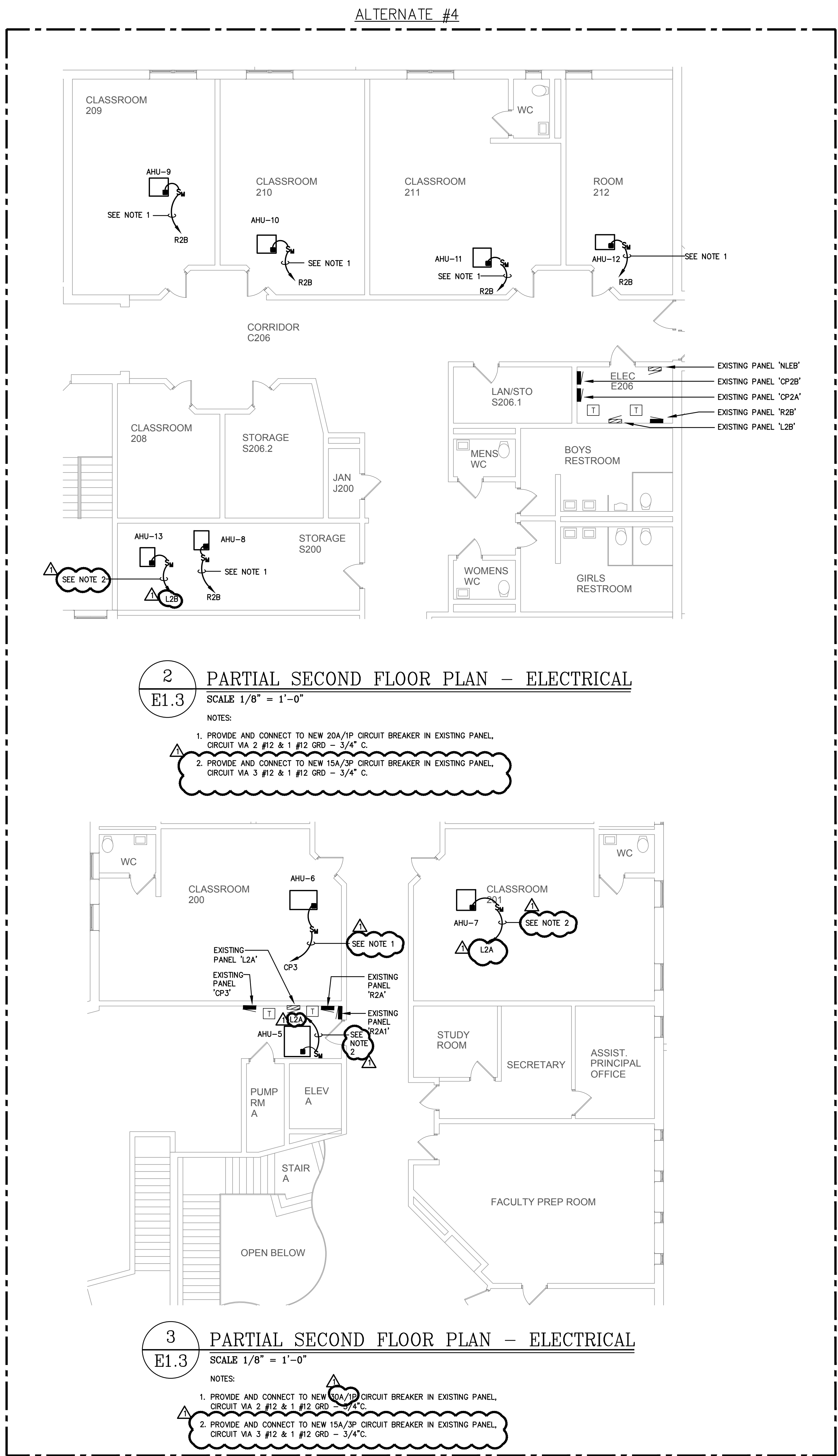
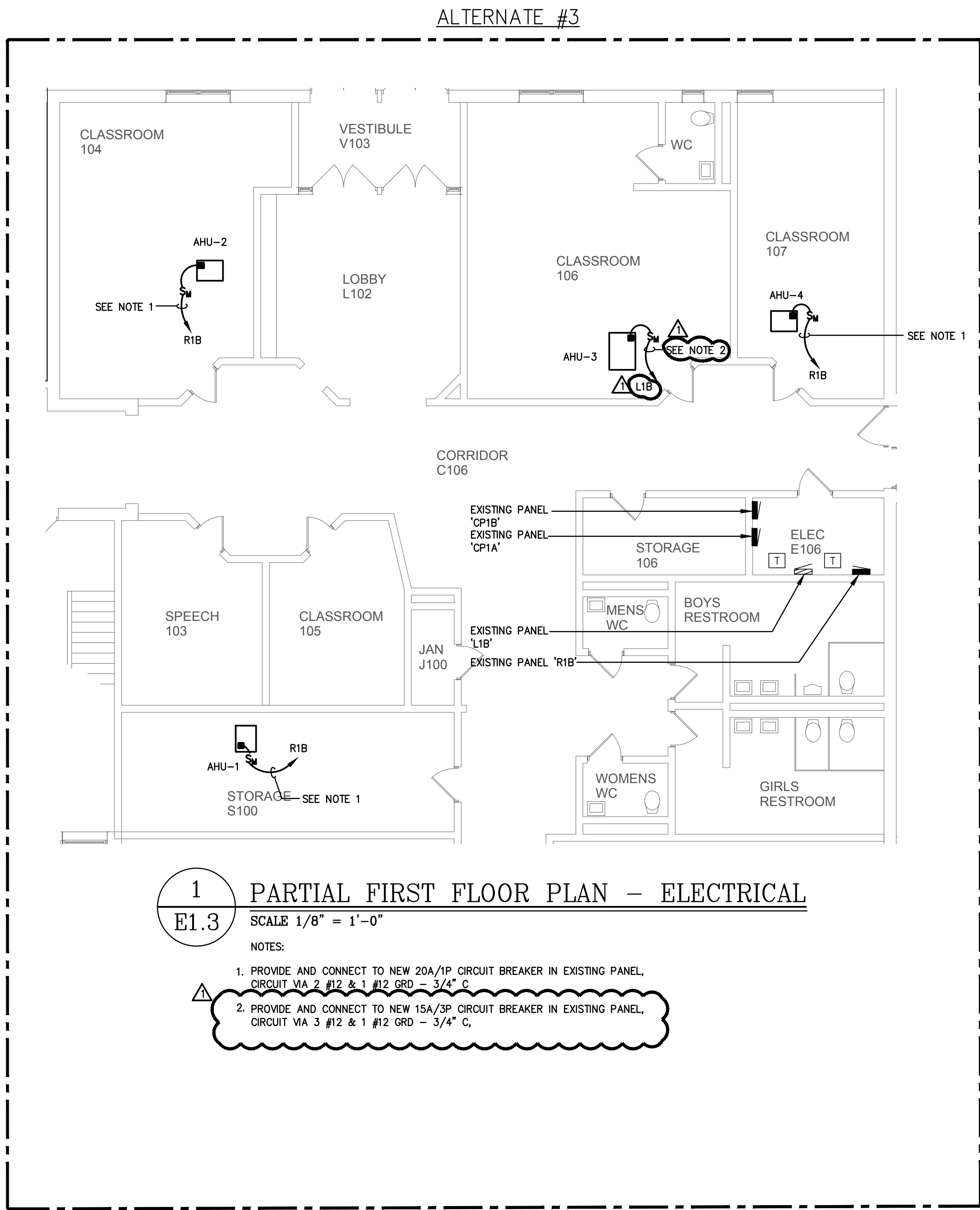
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E1.2

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KELTER & GILLICO  
consulting engineers  
P.O. BOX 777, 14 WASHINGTON RD.  
PRINCETON, NEW JERSEY 08540  
Praveen, Tanish, P.E.  
Professional Engineer  
NJ 38656





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COLD SPRINGS SCHOOL  
1194 MARKET STREET  
GLOUCESTER CITY, NJ 08030

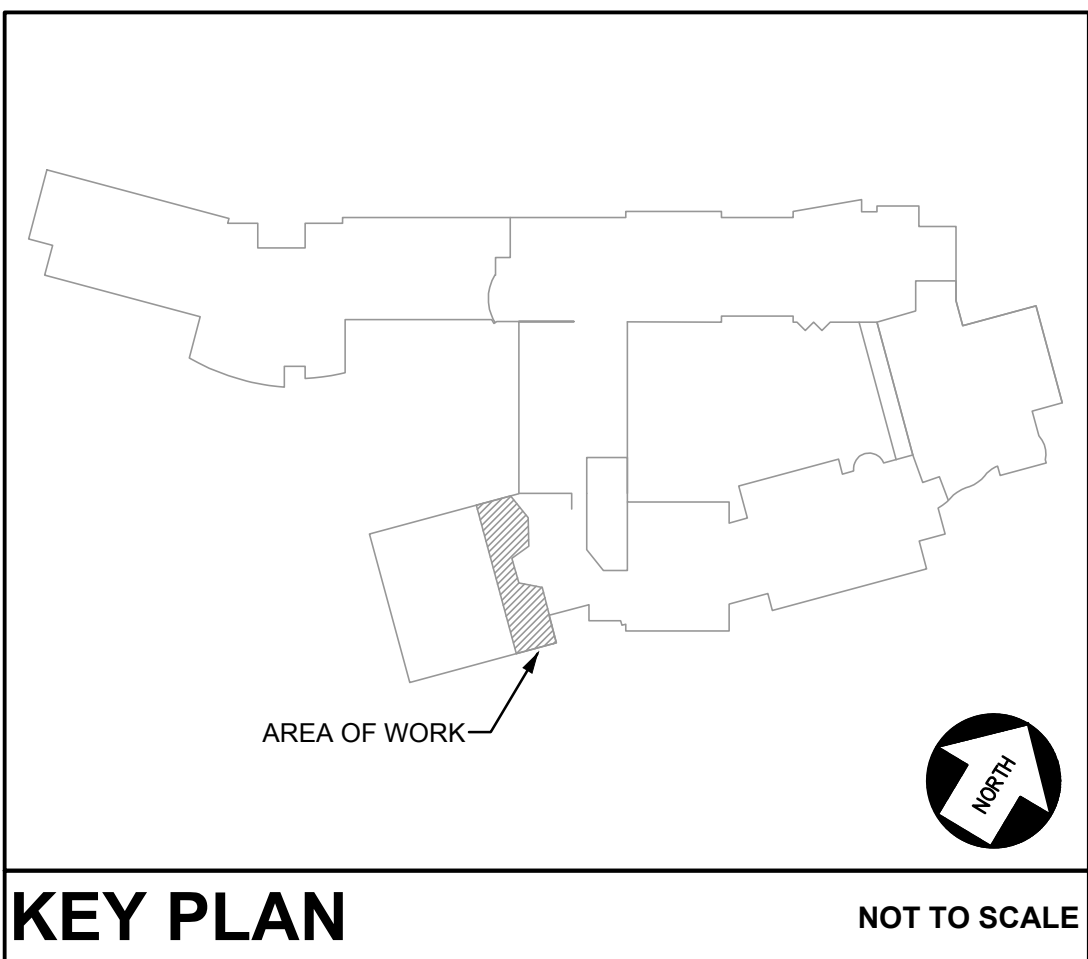
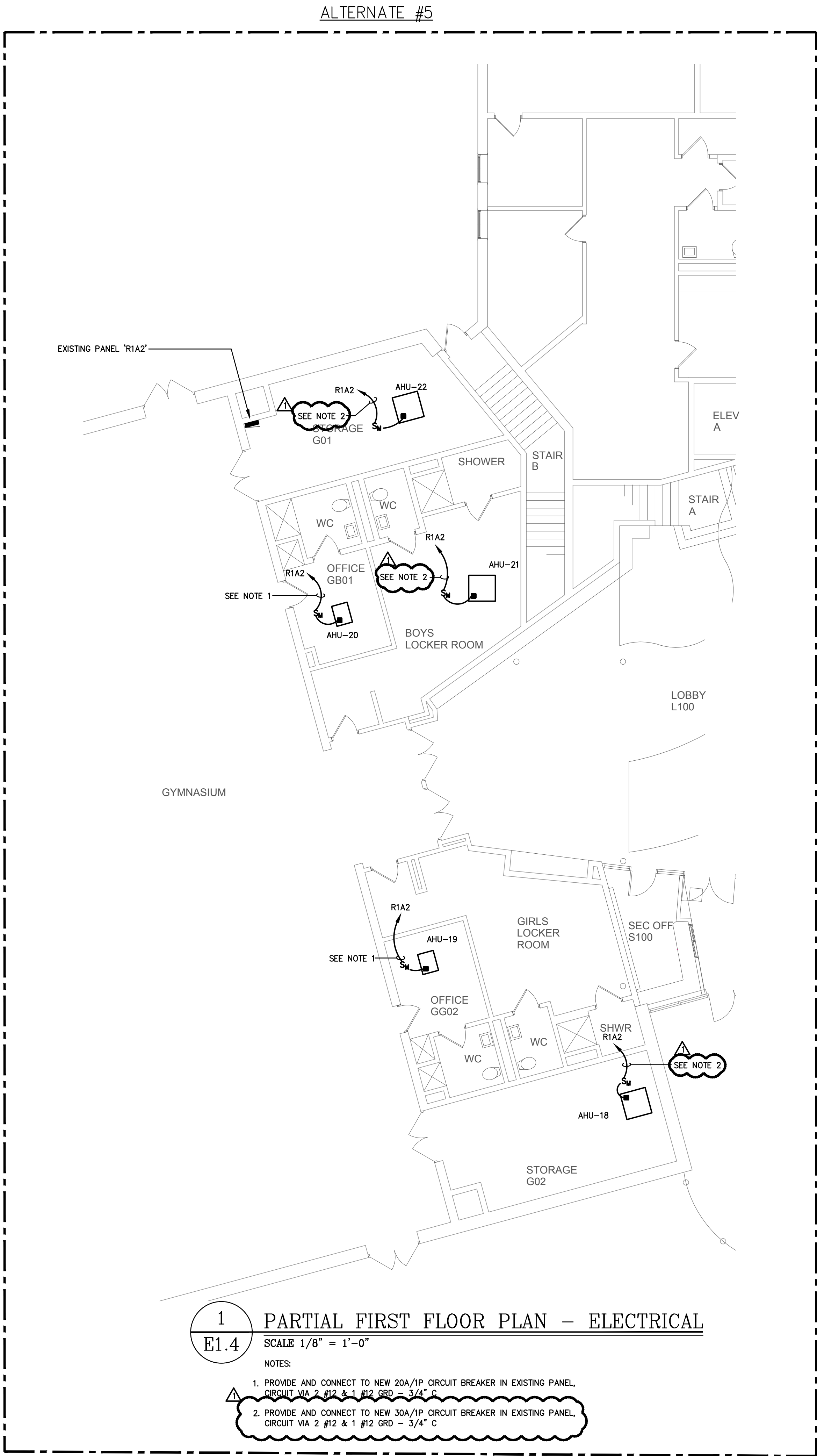
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ALTERNATE 03 & ALTERNATE 04 - ELECTRICAL

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E1.3





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1194 MARKET STREET  
GLOUCESTER CITY, NJ 08030

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KELTER & GILLIG  
consulting engineers  
P.O. BOX 777 14 WASHINGTON RD.  
FARMINGTON NEW JERSEY 08030  
Frank T. Kelter, P.E.  
Professional Engineer  
NJ 38656

