

# Dover HS / Career Technical Center

VOLUME 4 OF 4

25 Alumni Drive, Dover, NH

## Joint Building Committee:

Robert Carrier, Chairperson  
Jason Gagnon, City Councilor  
Sarah Greenshields, City Councilor  
Amanda Russell, School Board Representative  
Matthew Severson PE, School Citizen Representative  
Mark Guether, City Citizen Representative

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Peter Driscoll, Principal, Dover HS & Career Technical Center  
Louise Paradis, Director, Career Technical Center  
Libby Simmons, Business Administrator, Dover Public Schools  
Jeffrey White, Facilities Director

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Cavanaugh Tocci Associates, Inc. / Acoustical & Theatrical Consultants

## PC Construction Company / Construction Manager

# 100% CONFORMED SET - FOR CONSTRUCTION

# CONSTRUCTION SET

September 12th, 2016

**H M**  
**F H**  
H M F H ARCHITECTS

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E0.1	Electrical Symbol List
E0.2	Lighting Fixture Schedule
E0.3	Electrical Site Plan
E0.4	Electrical Site Details
E0.5	Electrical Site Details
E0.6	Primary Voltage Site Distribution Riser Diagram
E1.0A	Ground Floor Plan Part A - Lighting
E1.0B	Ground Floor Plan Part B - Lighting
E1.0C	Ground Floor Plan Part C - Lighting
E1.0F	Ground Floor Plan Part F - Lighting
E1.1A	First Floor Plan Part A - Lighting
E1.1B	First Floor Plan Part B - Lighting
E1.1C	First Floor Plan Part C - Lighting
E1.1D	First Floor Plan Part D - Lighting
E1.1E	First Floor Plan Part E - Lighting
E1.1F	First Floor Plan Part F - Lighting
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T1.1D	First Floor Plan Part D - Technology
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AV5.3	Audiovisual Functional Diagram - Auditorium
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THEATRICAL LIGHTING DRAWINGS	
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TL1.2A	Theatrical Lighting Plan
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THEATRICAL RIGGING DRAWINGS	
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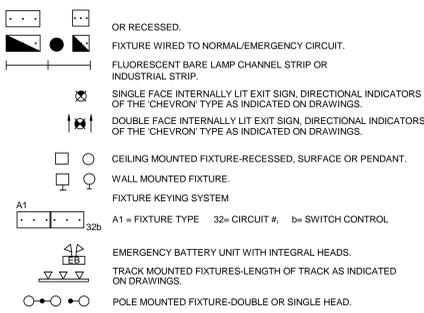
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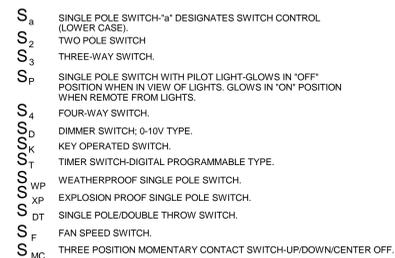
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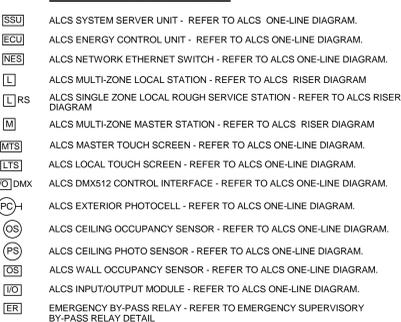
LIGHTING FIXTURES (see lighting fixture schedule)



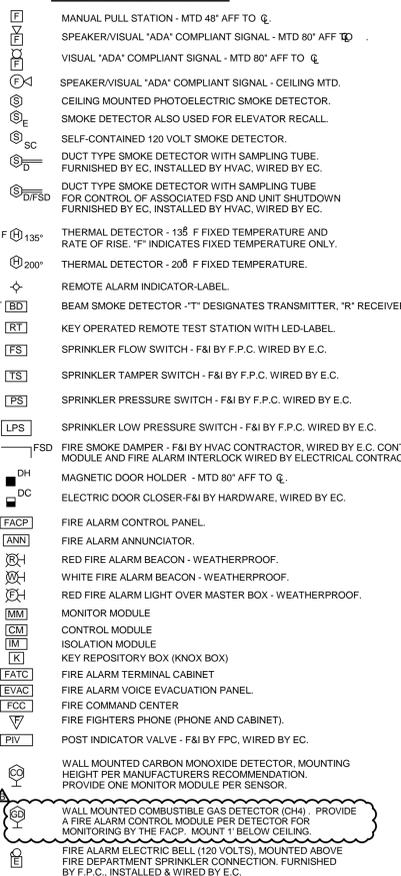
SWITCHES (typically mtd 48" AFF @ u.n.o)



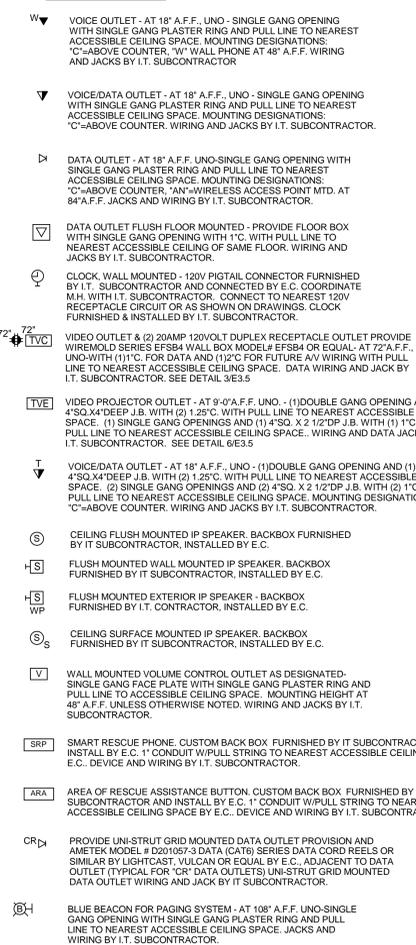
LIGHTING CONTROLS



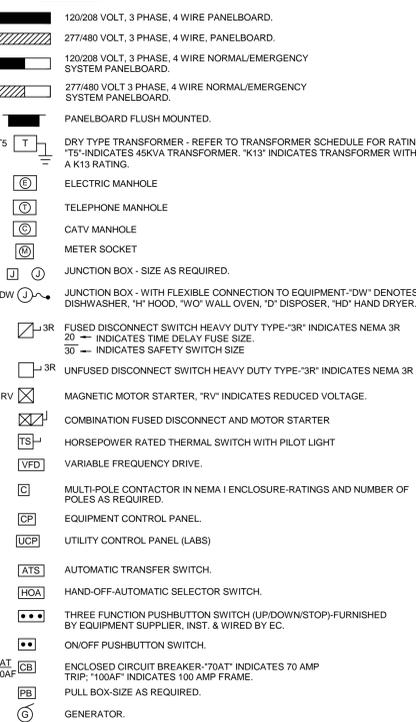
FIRE ALARM SYSTEM



TECHNOLOGY



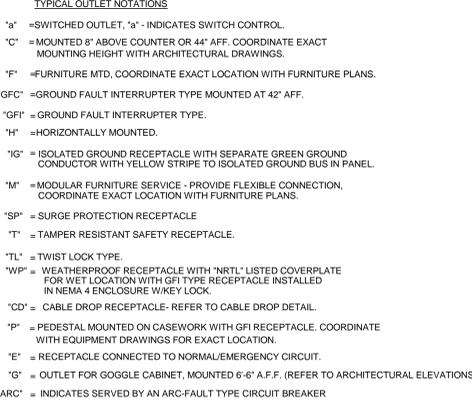
POWER



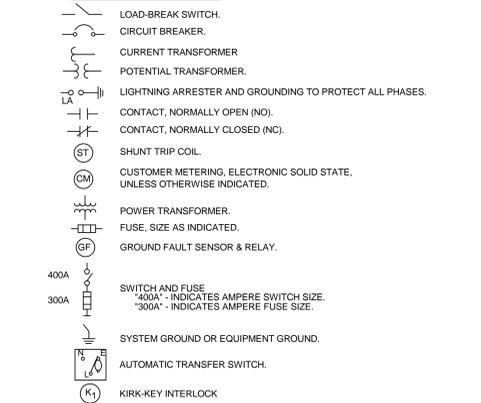
SYMBOL LIST

LEGEND NOTES: THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS...

RECEPTACLES (typically mtd. at 18" a.f.f., uno)



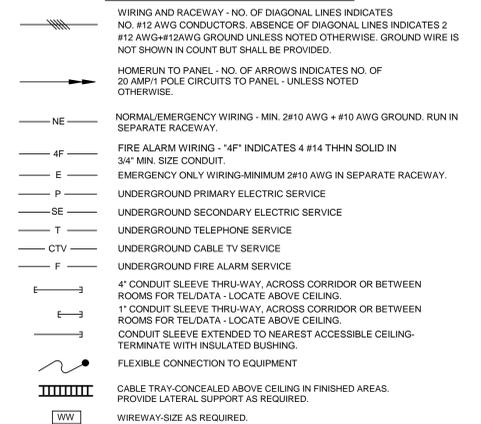
ONE LINE POWER



MISCELLANEOUS-DEVICES



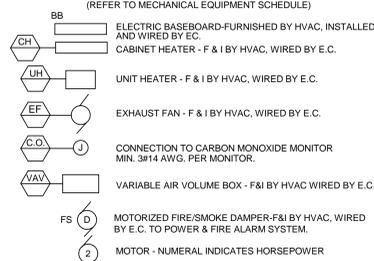
WIRE AND RACEWAYS



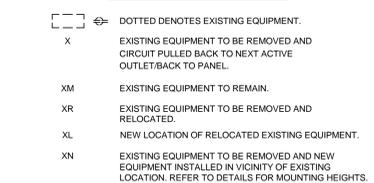
ABBREVIATIONS

Table listing abbreviations and their meanings, such as AMPERE, ALUMINUM, ABOVE FINISHED GRADE, etc.

MECHANICAL EQUIPMENT (REFER TO MECHANICAL EQUIPMENT SCHEDULE)



EXISTING EQUIPMENT



SECURITY SYSTEM

REFER TO DWG. E5.0 FOR SECURITY SYMBOL LIST

AV SYSTEM

REFER TO DWG. T0.1 FOR AV SYMBOL LIST

Table with columns for REVISIONS NO., DATE, REMARKS, and BY. Includes a large 'E0.1' stamp.

LIGHTING FIXTURE SCHEDULE (1)

Table with columns: TYPE, MANUFACTURER, MODEL / SERIES, MTG, VOLTAGE, LIGHT SOURCE (LUMENS, WATTAGE, TYPE), DESCRIPTION, NOTES. Contains detailed specifications for various lighting fixtures.

LIGHTING FIXTURE SCHEDULE NOTES (1)

- 1. LIGHTING FIXTURE PACKAGE SUBMITTALS SHALL BE FULLY COORDINATED BETWEEN THE ELECTRICAL CONTRACTOR, LIGHTING FIXTURE REPRESENTATIVE(S), AND LIGHTING MANUFACTURERS TO ENSURE PRODUCT, INSTALLATION, AND CONTROL REQUIREMENTS ARE MET PRIOR TO SUBMISSION FOR REVIEW. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROVIDE A PACKAGE MEETING ALL REQUIREMENTS OF THE PROJECT FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.
- 2. PROVIDE EXIT SIGN THAT COMPLIES WITH NFPA 101, UL 924, 521 CMR 2.1.2 AND ALL REFERENCED STANDARDS AND CODES.
- 3. PROVIDE FLOOR PROXIMITY SIGN IN ADDITION TO STANDARD SIGN ABOVE DOOR; MOUNT SIGN AT 18" A.F.F. TO THE TOP OF THE STRIKE SIDE OF DOOR. SIGN SHALL BE RECESSED MOUNTED AND PROVIDED WITH FULL POLYCARBONATE SHIELD.
- 4. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE CONTINUOUS RUNS IN THE LENGTHS AS SHOWN ON THE ELECTRICAL DRAWINGS.
- 5. SITE LIGHTING POLES SHALL BE PROVIDED WITH FULL BASE COVERS TO MATCH PROFILE OF POLE; NUT COVERS ARE NOT ACCEPTABLE.
- 6. PROVIDE FIXTURE WITH 0-10V DIMMING BALLAST, DRIVER, OR LIGHT ENGINE REQUIRED FOR LAMP OR LED SOURCE SPECIFIED.
- 7. PROVIDE ALCS ADDRESSABLE INPUT/OUTPUT (I/O) MODULE FOR EVERY FIXTURE (EXCEPT WHERE EXPLICITLY CALLED OUT ON PLANS) AND LIGHTING CONTROL DEVICE. WHERE FIXTURES OR CONTROL DEVICES ARE LOCATED IN HARD CEILING AREAS THE I/O MODULE SHALL BE REMOTE MOUNTED IN ACCESSIBLE AREA ABOVE AN A.C.T. CEILING OR EXPOSED IN AN UNFINISHED UTILITY SPACE. WHERE FIXTURES ARE LOCATED OUTDOORS THE I/O MODULE SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE PANEL SERVING THE FIXTURES. REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM TYPE-ONE LINE DIAGRAM" AND SPECIFICATIONS FOR FURTHER INFORMATION.

MOUNTING DESIGNATIONS

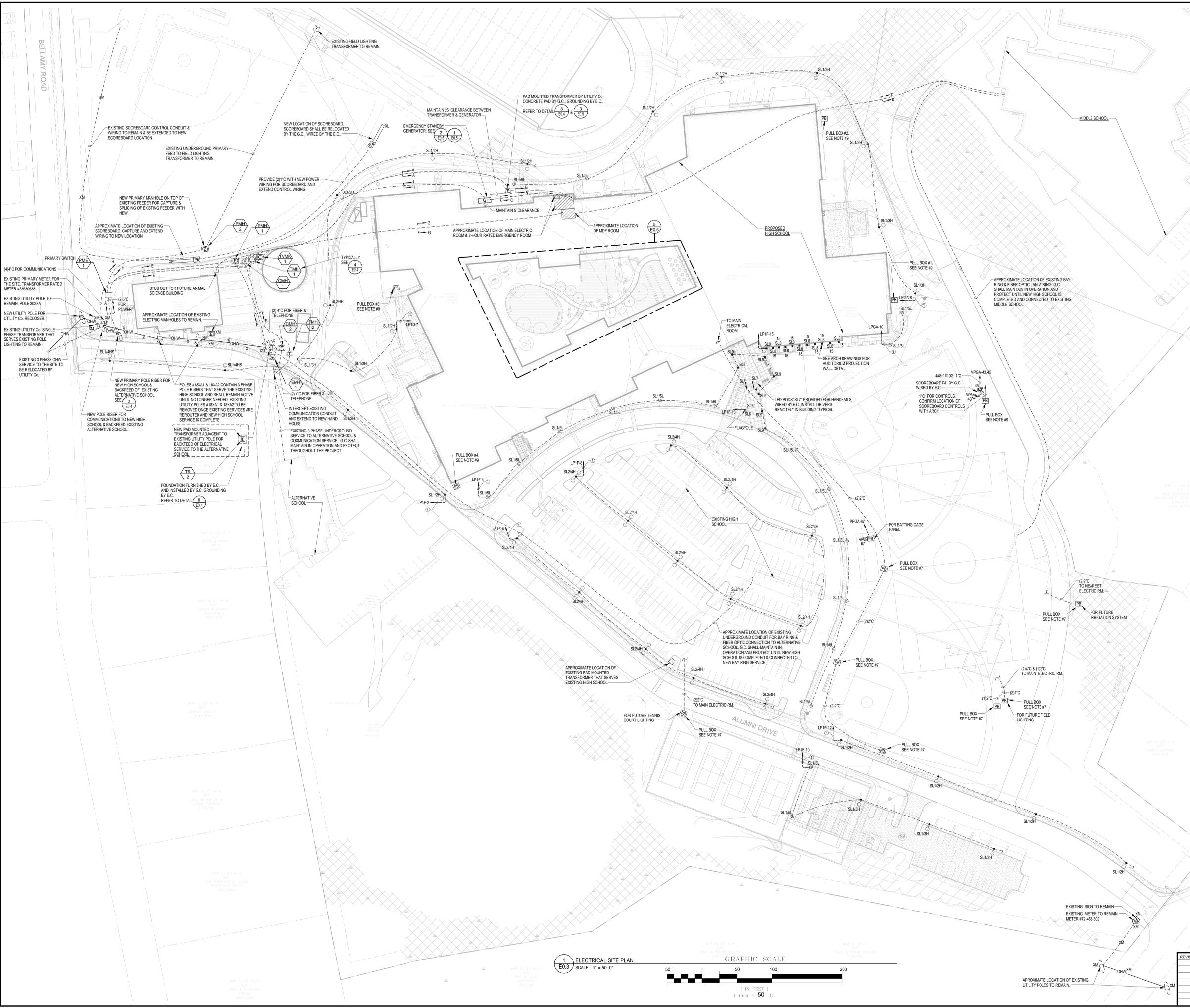
Table with columns: C (COVER), P (PENDANT), R (RECESSED), S (SURFACE), T (TRACK / RAIL / CABLE), U (UNIVERSAL), W (WALL), AC (AIRCRAFT CABLE), BOL (BOLLARD), POLE (POLE).

LIGHTING GENERAL NOTES

- 1. MANUFACTURERS AND CATALOG NUMBERS IDENTIFIED IN THE "LIGHTING FIXTURE SCHEDULE" SHALL SERVE TO ESTABLISH THE BASIS OF DESIGN FOR EACH LIGHTING FIXTURE TYPE. PRODUCTS OF EQUAL APPEARANCE, CONSTRUCTION, PERFORMANCE, AND WARRANTY COVERAGE FROM MANUFACTURERS OTHER THAN THOSE IDENTIFIED MAY BE PROPOSED FOR USE ON THIS PROJECT, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER. THE FIXTURE MANUFACTURER OPTIONS (OR EQUAL) LISTING IS PROVIDED FOR GUIDANCE IN IDENTIFYING MANUFACTURERS CAPABLE OF PROVIDING EQUAL PRODUCTS, BUT IN NO WAY LIMITS MANUFACTURERS OR PRODUCTS THAT MAY BE PROPOSED AS EQUALS FOR THE PROJECT.
- 2. "LIGHTING FIXTURE SCHEDULE" REMARKS, "LIGHTING FIXTURE SCHEDULE NOTES", "LIGHTING GENERAL NOTES", AND NOTATIONS ELSEWHERE MAY INDICATE FEATURES AND ACCESSORIES THAT ARE NOT INDICATED IN THE CATALOG NUMBER BUT ARE REQUIRED FOR THE PROJECT. PRODUCTS OTHER THAN THOSE SPECIFIED SUBMITTED SHALL BE DOCUMENTED FOR CONFORMANCE IN PERFORMANCE, CONSTRUCTION, AND APPEARANCE WITH THE CRITERIA ESTABLISHED BY THE SPECIFIED PRODUCT.
- 3. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET THE JOB REQUIREMENTS. VERIFY ROOM SURFACE CONSTRUCTION AND FINISHES PRIOR TO ORDERING FIXTURES TO ENSURE PROPER MOUNTING PROVISIONS AND FIXTURE FITTINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS.
- 4. VERIFY ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS WITH LATEST ARCHITECTURAL DRAWINGS. EXACT LOCATION OF FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO START OF ROUGHING.
- 5. COMPACT FLUORESCENT LAMPS SHALL HAVE KELVIN COLOR TEMPERATURE AS SCHEDULED WITH A MINIMUM COLOR RENDERING INDEX (CRI) OF 82. COMPACT FLUORESCENT LAMPS SHALL BE THE ALUMINUM TYPE AS MANUFACTURED BY SYLVANIA (DULUX T5E SERIES), PHILIPS, GENERAL ELECTRIC, OR EQUAL.
- 6. STANDARD COMPACT FLUORESCENT BALLASTS SHALL AS MANUFACTURED BY SYLVANIA (QUICKTRONIC PROSTART (P) SERIES), PHILIPS, GENERAL ELECTRIC, UNIVERSAL, OR EQUAL. DIMMING COMPACT FLUORESCENT BALLASTS SHALL AS MANUFACTURED BY SYLVANIA (QUICKTRONIC HELIOS (C) SERIES (0-10V)), PHILIPS, GENERAL ELECTRIC, UNIVERSAL, OR EQUAL.
- 7. LINEAR FLUORESCENT LAMPS SHALL HAVE KELVIN COLOR TEMPERATURE AS SCHEDULED WITH A MINIMUM COLOR RENDERING INDEX (CRI) OF 85. T5HO LAMPS SHALL BE THE ENERGY SAVER TYPE AS MANUFACTURED BY SYLVANIA (PENTRON HO SUPERSAVER ECOLOGIC SERIES), PHILIPS, GENERAL ELECTRIC OR EQUAL. T5 LAMPS SHALL BE THE ENERGY SAVER TYPE AS MANUFACTURED BY SYLVANIA (PENTRON SUPERSAVER ECOLOGIC SERIES), PHILIPS, GENERAL ELECTRIC, OR EQUAL.
- 8. STANDARD T5 AND T5HO LINEAR FLUORESCENT BALLASTS SHALL BE HIGH EFFICIENCY TYPE AS MANUFACTURED BY SYLVANIA (THE PROSTART SERIES), PHILIPS, GENERAL ELECTRIC, UNIVERSAL, OR EQUAL. T5 AND T5HO DIMMING LINEAR FLUORESCENT BALLASTS SHALL BE AS MANUFACTURED BY SYLVANIA (QUICKTRONIC ONE POWERSENSE SERIES (0-10V)), PHILIPS, GENERAL ELECTRIC, UNIVERSAL, OR EQUAL.
- 9. LED ARRAYS, MODULES, AND LIGHT ENGINES SHALL HAVE KELVIN COLOR TEMPERATURE AS SCHEDULED HAVING A MINIMUM COLOR RENDERING INDEX (CRI) OF 82 AND A MINIMUM L70 LIFETIME RATING OF 50,000 HOURS AT 25°C AMBIENT. LED DRIVERS SHALL HAVE 0-10V DIMMING CONTROL WITH FULLY ISOLATED CONTROL INPUTS AND MINIMUM POWER LEVEL OF 10%. LED FIXTURES WITH ARRAY / MODULE AND DRIVER PACKAGES OR LIGHT ENGINES SHALL HAVE PUBLISHED IESNA LM-79 AND LM-80 TESTING DATA AS A STANDARD MANUFACTURED OFFERING. INDIVIDUAL COMPONENT TESTING DATA WILL NOT BE ACCEPTED. ALL FIXTURES SHALL BE "DESIGN LIGHTS CONSORTIUM" (DLO) OR "ENERGYSTAR" LISTED, OR FURNISHED WITH DATA INDICATING CONFORMANCE WITH LATEST APPLICABLE LISTING CRITERIA.
- 10. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE INDICATED. PROVIDE RUN LENGTHS AS INDICATED NUMERICALLY OR GRAPHICALLY) OR CONTINUOUS WHERE SHOWN BETWEEN TWO ARCHITECTURAL ELEMENTS (SURFACES, SOFFITS, COLUMNS, ETC.).
- 11. LINEAR ROWS OF RECESSED, WALLACE, OR SUSPENDED FLUORESCENT FIXTURES SHALL BE INSTALLED TO PROVIDE CONTINUOUS RUN LENGTHS AS INDICATED ON THE DRAWINGS. PROVIDE ALL REQUIRED FITTINGS, CONNECTORS, SUPPORTS, TRIMS, ETC. SO THAT RUNS ARE A COMPLETE ASSEMBLY WITH THE APPEARANCE OF A SINGLE UNIT. ROWS SHALL BE CONFIGURED FOR MINIMUM NUMBER OF FEEDS, JOINTS, AND MOUNTINGS. PROVIDE ROW AND PATTERN CONFIGURATION DRAWINGS FOR REVIEW PRIOR AND APPROVAL PRIOR TO RELEASE OF MATERIAL ORDER.
- 12. PROVIDE FLAT ROUND CANOPIES FOR SUSPENDED FIXTURE LOCATIONS WHERE SUSPENSIONS MOUNTS TO UNFINISHED CEILING STRUCTURE (WHERE LOCATED IN FINISHED SPACES) AND WHERE PASSING THROUGH SUSPENDED CEILINGS (CONFIRM WHETHER IN TILE OR AT GRID). PROVIDE SWIVEL ALIGNERS FOR SUSPENSIONS WHERE REQUIRED FOR SLOPED CEILINGS. ENTIRE SUSPENSION ASSEMBLY SHALL BE SUPPLIED BY MANUFACTURER OF FIXTURES.
- 13. FIXTURES WITH LOUVERS SHALL BE PROVIDED WITH HIGH TRANSMISSION (95% OR BETTER) DIFFUSING LENSES OR FILMS TO OBSCURE DIRECT LAMP VIEWING.
- 14. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILINGS. DO NOT TAP METAL ROOF DECK FOR SUPPORT OF ANY ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT AS REQUIRED FOR SUPPORT OF ALL ELECTRICAL EQUIPMENT.
- 15. REFER TO SPECIFICATIONS FOR SEISMIC SUPPORT, RESTRAINT, AND BRACING REQUIREMENTS OF THIS PROJECT.
- 16. PROVIDE TYPE AND QUANTITY OF BALLASTS, DRIVERS, AND TRANSFORMERS AS REQUIRED TO PROVIDE CONTROL METHOD INDICATED ON THE PLANS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: SWITCHING SUBSCRIPTS, NOTES, SCHEDULE REMARKS / DESCRIPTIONS, AND DETAILS. QUANTITY OF BALLASTS, DRIVERS, AND/OR TRANSFORMERS SHALL BE THE MINIMUM REQUIRED TO PROVIDE CONTROL, INDICATED TO MAINTAIN THE LOWEST CONNECTED LOAD OF LIGHTING SYSTEM POSSIBLE. TANDEM WIRING OF FIXTURES SHALL BE PROVIDED WHERE NECESSARY AND WITHIN THE WIRING DISTANCE RESTRICTIONS OF THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 17. WHERE 0-LEVEL SWITCHING IS INDICATED, DESIGNATED 'a' CONTROL SHALL BE ARRANGED FOR 50% LIGHT OUTPUT 'OFF' BY CIRCUIT NUMBER AS SHOWN. DESIGNATED 'b' CONTROL SHALL BE ARRANGED FOR THE OTHER 50% LIGHT OUTPUT 'OFF' BY CIRCUIT NUMBER AS SHOWN. BOTH CIRCUITS MUST BE ON SAME PHASE. FIXTURES ARE PROVIDED WITH (1) BALLAST WITH DUAL LEVEL CONTROL WHEN AVAILABLE FOR LAMPING SPECIFIED, TWO BALLASTS OTHERWISE.
- 18. EVERY SPACE ENCLOSED BY FLOOR TO CEILING WALLS SHALL BE PROVIDED WITH A MINIMUM OF ONE MANUAL LIGHTING SWITCH AND ONE CEILING MOUNTED OCCUPANCY SENSOR. ADDITIONAL CONTROLS SHALL BE AS INDICATED ON THE PLAN OR AS SPECIFIED ELSEWHERE.
- 19. ALL LAMPS, BALLASTS, LED SOURCES, DRIVERS, AND CONTROLS SHALL MEET THE LATEST UTILITY COMPANY INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH THE UTILITY COMPANY TO ENSURE COMPLIANCE.
- 20. ALL EXIT SIGNS SHALL BE CIRCUITED AHEAD OF ANY LOCAL SWITCH CONTROL. WHERE CONTROL IS BY CIRCUIT BREAKER CONTROL SYSTEMS ARE UTILIZED THE CIRCUITS SERVING EXIT SIGNS SHALL BE SWITCHED "OFF" WHENEVER THE BUILDING IS UNOCCUPIED.
- 21. EXIT SIGNS TO BE PROVIDED WITH ARROWS AS INDICATED ON DRAWINGS. TYPICALLY MOUNT ON CEILING WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. EDGE-LIT SIGNS SHALL GENERALLY HAVE CLEAR PANELS EXCEPT FOR DOUBLE FACED UNITS AND SINGLE FACED UNITS ABLE TO BE VIEWED FROM BEHIND WHICH SHALL HAVE OPAQUE / MIRRORED PANELS. REFER TO ARCHITECTURAL DRAWINGS FOR INDICATION OF MOUNTING REQUIREMENTS.
- 22. PROVIDE SPARE EXIT SIGNS FOR INSTALLATION DURING CONSTRUCTION. INCLUDE 100' OF TYPE MC CABLE BRANCH CIRCUITING AND INSTALLATION LABOR. REFER TO ELECTRICAL SPECIFICATIONS FOR QUANTITIES AND INSTALLATION REQUIREMENTS.
- 23. EXIT SIGNS SHALL BE THE SELF-CONTAINED TYPE WITH INTEGRAL BATTERY BACK-UP AND SELF-DIAGNOSTICS WHERE NO LIFE SAFETY POWER SOURCE IS AVAILABLE, REGARDLESS OF MODEL / SERIES SPECIFIED.
- 24. EXIT SIGNS INSTALLED IN GYMNASIUMS, LOCKER ROOMS, AND ANY OTHER DESIGNATED AREAS SHALL BE PROVIDED WITH POLYCARBONATE FACE PLATE / SHIELD AS PART OF EXIT SIGN PACKAGE FROM SAME MANUFACTURER.
- 25. PROVIDE A SELF CONTAINED EMERGENCY LIGHTING UNIT WITH TWIN ADJUSTABLE HEADS (TYPE "EB" WHERE SCHEDULED) AT EACH FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR. EXACT MOUNTING TO BE COORDINATED IN FIELD WITH ARCHITECT OR ENGINEER.
- 26. SELF-CONTAINED EMERGENCY LIGHTING UNITS SHALL BE WIRED TO LIGHTING CIRCUIT SERVING ROOM OR SPACE TO BE ILLUMINATED AHEAD OF ANY SWITCHING CONTROLS.
- 27. FIXTURES WITH MULTI WATTAGE BALLASTS OR DRIVERS SHALL BE LABELED FROM THE FACTORY FOR THE WATTAGE SPECIFIED TO ENSURE COMPLIANCE WITH ENERGY CODE CALCULATIONS.
- 28. FINISH FOR ALL FIXTURES SHALL BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S CATALOG OPTIONS.
- 29. WHERE FIXTURES OTHER THAN THE SPECIFIED PRODUCTS ARE PROPOSED, THE CONTRACTOR SHALL PROVIDE LIGHT LEVEL CALCULATIONS (WHEN REQUESTED BY ENGINEER) IN ACCORDANCE WITH IESNA STANDARDS TO JUSTIFY THAT THE SUBSTITUTED FIXTURES ARE OF EQUAL PERFORMANCE TO THE SPECIFIED PRODUCTS (APPLIES TO ALL FIXTURES IN ALL SPACES.)

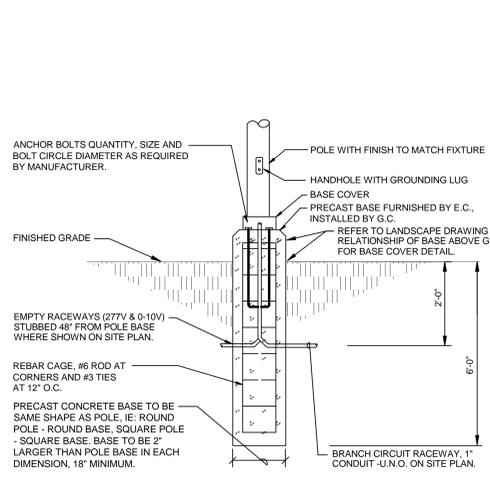
- ELECTRICAL SITE NOTES:**
- DO NOT RUN ANY UNDERGROUND RACEWAYS WITHIN PLANTING AREAS OR LEACHING FIELDS. REFER TO DRAWINGS FOR LOCATIONS. COORDINATE ROUTING WITH LANDSCAPE ARCHITECT.
  - REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF UTILITIES. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATION OF SITE FIXTURES.
  - ALL SITE WIRING SHALL BE 289&100G & 2#12 TWISTED PAIR (600V RATED) 1" MINIMUM UNLESS SHOWN OTHERWISE.
  - ALL EXTERIOR LIGHTING TO BE PROGRAMMED FOR PHOTOCELL "ON", "TIMED" "OFF" AND DIMMED LEVELS (10A 0-10V SIGNAL). PROVIDE INDIVIDUAL CONTROL FOR EACH CIRCUIT. COORDINATE PROGRAMMING WITH OWNER. (REFER TO ALC'S ONE-LINE DIAGRAM & SPECIFICATIONS).
  - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EXTERIOR WALL MOUNTED LIGHTING.
  - REMOVE ALL SITE ELECTRICS WHEN NO LONGER REQUIRED.
  - PROVIDE 17'X30'X12" GROUND MOUNTED PULL BOX QUATRE #PC1730&12 WITH COVER #PC1730&12 OR SAME BY CARSON. HIGHLINE, STRONGWELL, OR EQUAL. RUN ALL SITE LIGHTING VIA PULL BOX. ALSO PROVIDE (1) 1" SPARE WITH PULL LINE BETWEEN PULL BOX AND NEAREST ELECTRIC ROOM. LABEL @ EACH END.
  - PROVIDE LIGHTING PROTECTION SYSTEM FOR COVERAGE OF ENTIRE FACILITY.
  - PROVIDE 12'X12'X12" GROUND MOUNTED PULL BOX QUATRE #PC1212&12 WITH COVER #PC1212&12 OR SAME BY CARSON. HIGHLINE, STRONGWELL, OR EQUAL. GENERATOR EMISSIONS EXHAUST SHALL MAINTAIN 25 FEET CLEARANCE FROM ANY OPERABLE WINDOWS OR INTAKE LOUVERS. COMPLY WITH ALL FEDERAL, EPA AND STATE DEP REQUIREMENTS.

**SITE WIRING LEGEND:**  
 289, 1#10G, PLUS 2#12 TWISTED PAIR DIMMING (600V RATED) 1", 24' BELOW GRADE.

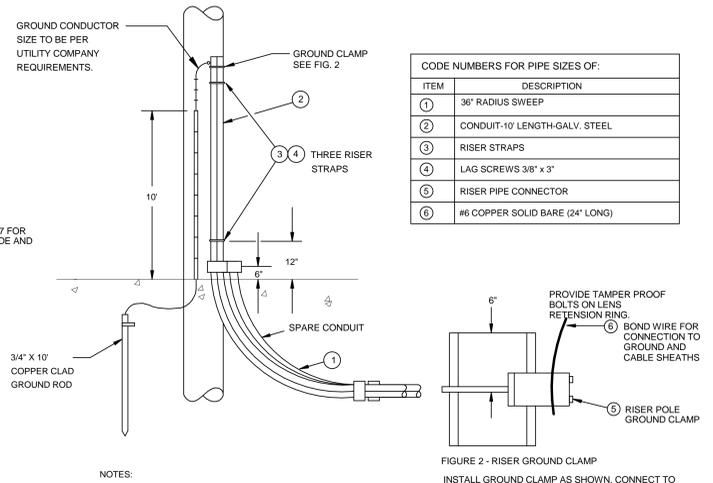


**1 ELECTRICAL SITE PLAN**  
 E0.3 SCALE: 1" = 50'-0"  
 GRAPHIC SCALE  
 50 100 150 200  
 (IN FEET)  
 1 inch = 50 ft.

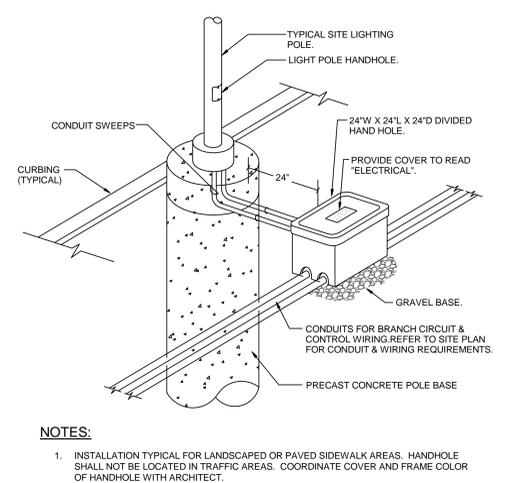
REVISIONS NO.	DATE	REMARKS	BY
A	2016-08-23	Addendum A	A



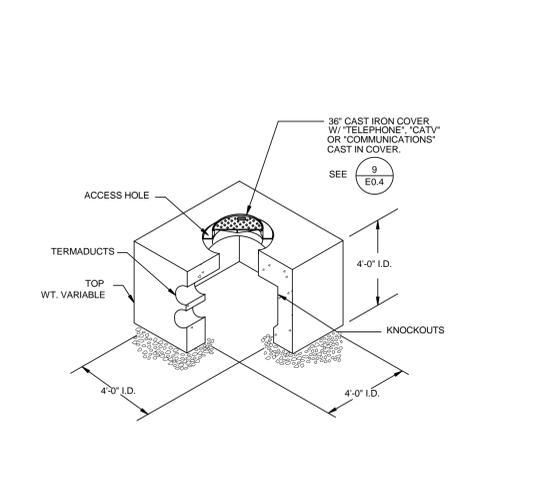
**1 SITE LIGHTING POLE BASE DETAIL**  
E0.4 SCALE: N.T.S.



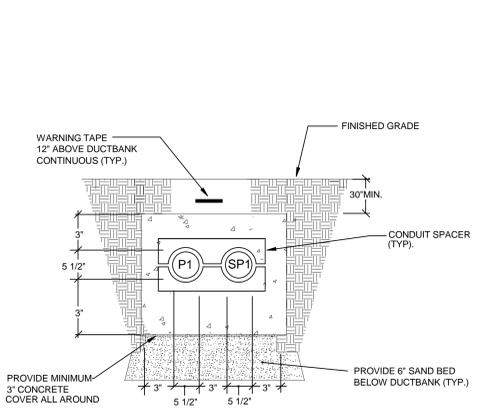
**2 POLE RISER DETAIL**  
E0.4 SCALE: N.T.S.



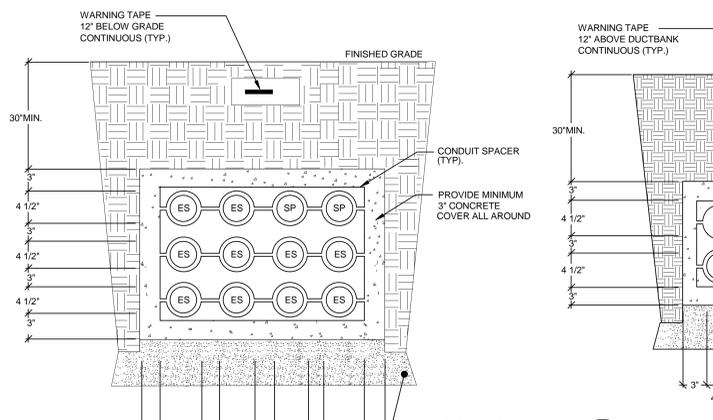
**3 SITE LIGHTING POLE WITH CAMERAS**  
E0.4 SCALE: N.T.S.



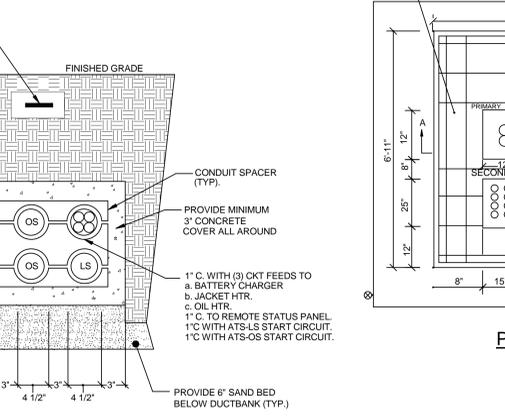
**4 TELEPHONE & C.A.T.V., SECONDARY & COMMUNICATIONS HANDHOLE**  
E0.4 SCALE: N.T.S.



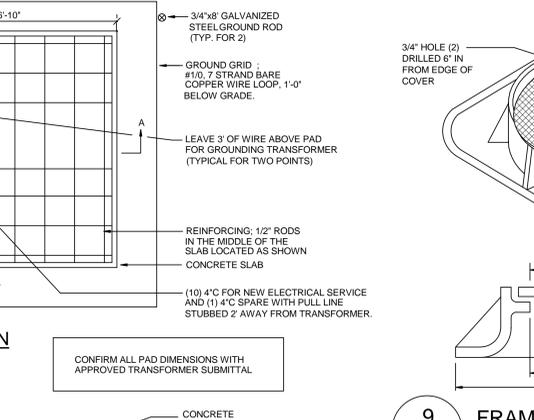
**5 PRIMARY DUCT BANK SECTION 'A-A'**  
E0.4 SCALE: N.T.S.



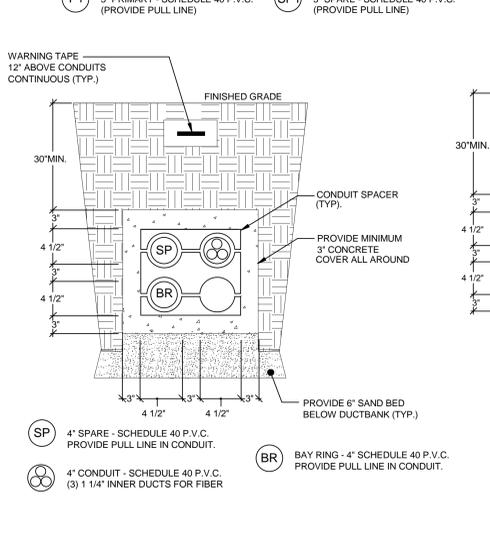
**6 SECONDARY DUCT-BANK DETAIL 'B-B'**  
E0.4 SCALE: N.T.S.



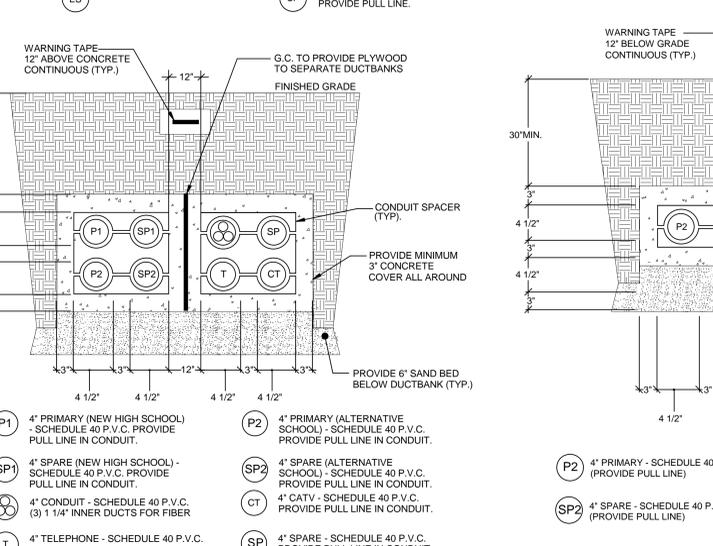
**7 GENERATOR DUCT-BANK DETAIL 'C-C'**  
E0.4 SCALE: N.T.S.



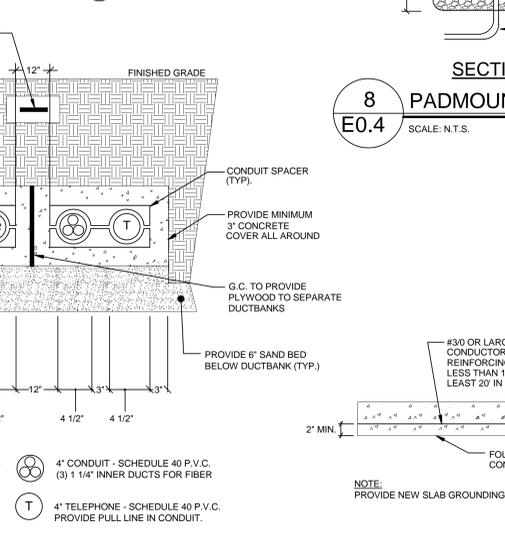
**8 PADMOUNT TRANSFORMER PAD DETAIL**  
E0.4 SCALE: N.T.S.



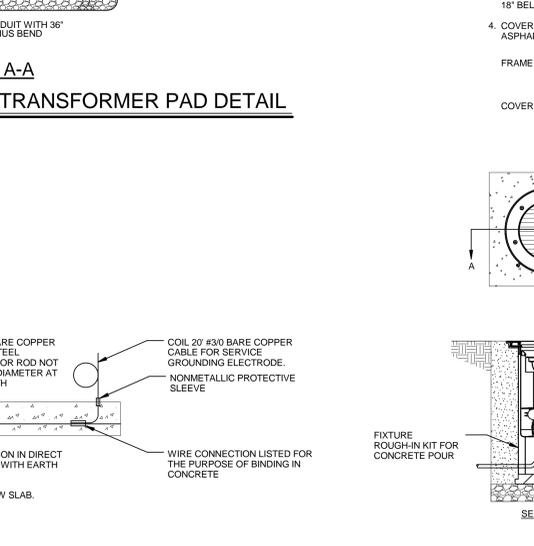
**9 DUCT-BANK DETAIL 'D-D'**  
E0.4 SCALE: N.T.S.



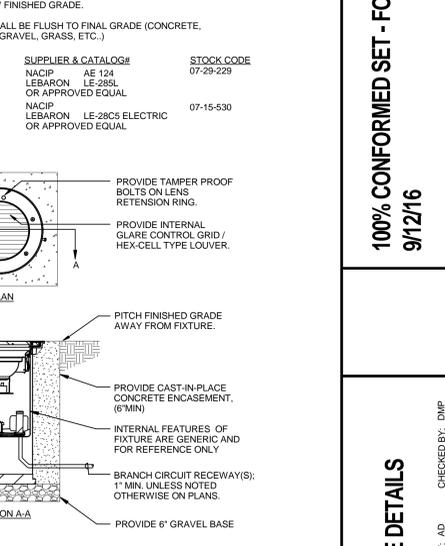
**10 DUCT-BANK DETAIL 'E-E'**  
E0.4 SCALE: N.T.S.



**11 PRIMARY/COMMUNICATION DUCT BANK SECTION 'F-F'**  
E0.4 SCALE: N.T.S.

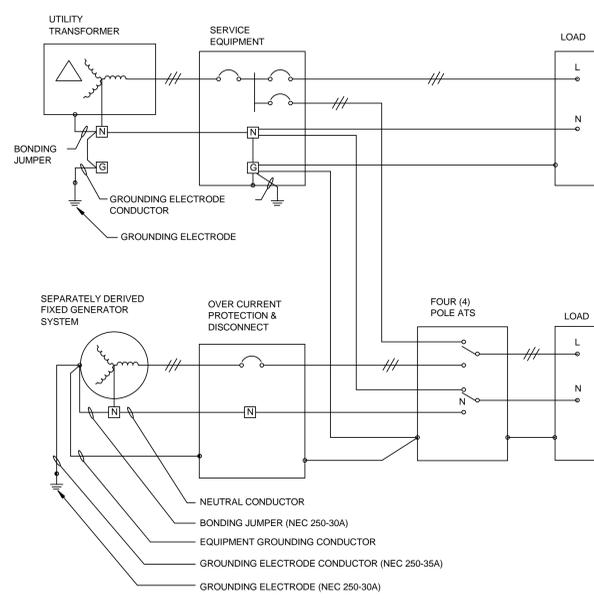


**12 UFER GROUNDING DETAIL @ MAIN SERVICE**  
E0.4 SCALE: N.T.S.

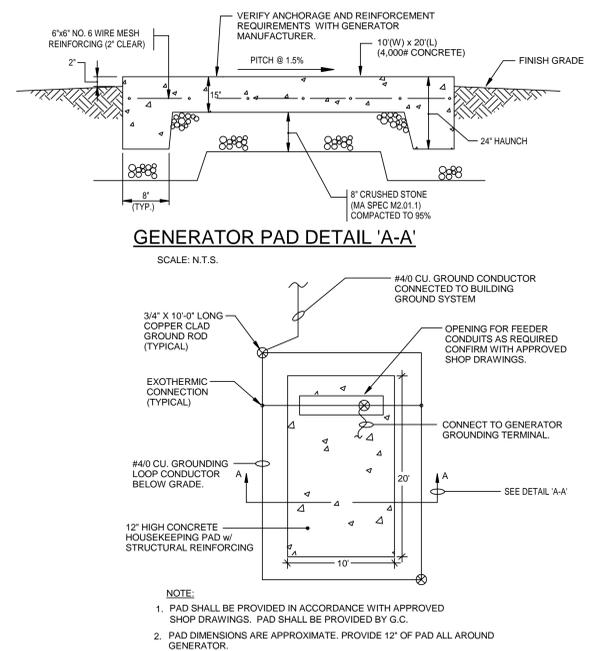


**13 GROUND MOUNTED LIGHT DETAIL**  
E0.4 SCALE: N.T.S.

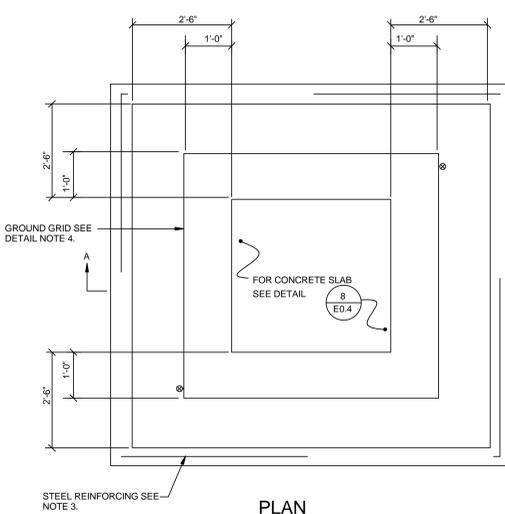
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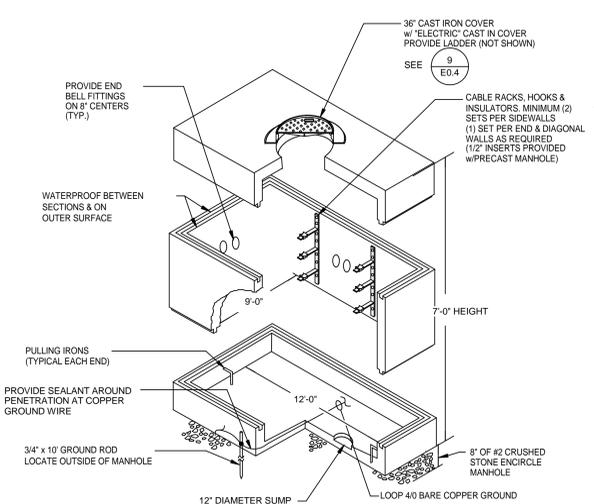
**1 SEPARATELY DERIVED GENERATOR SYSTEM**  
E0.5 SCALE: N.T.S.



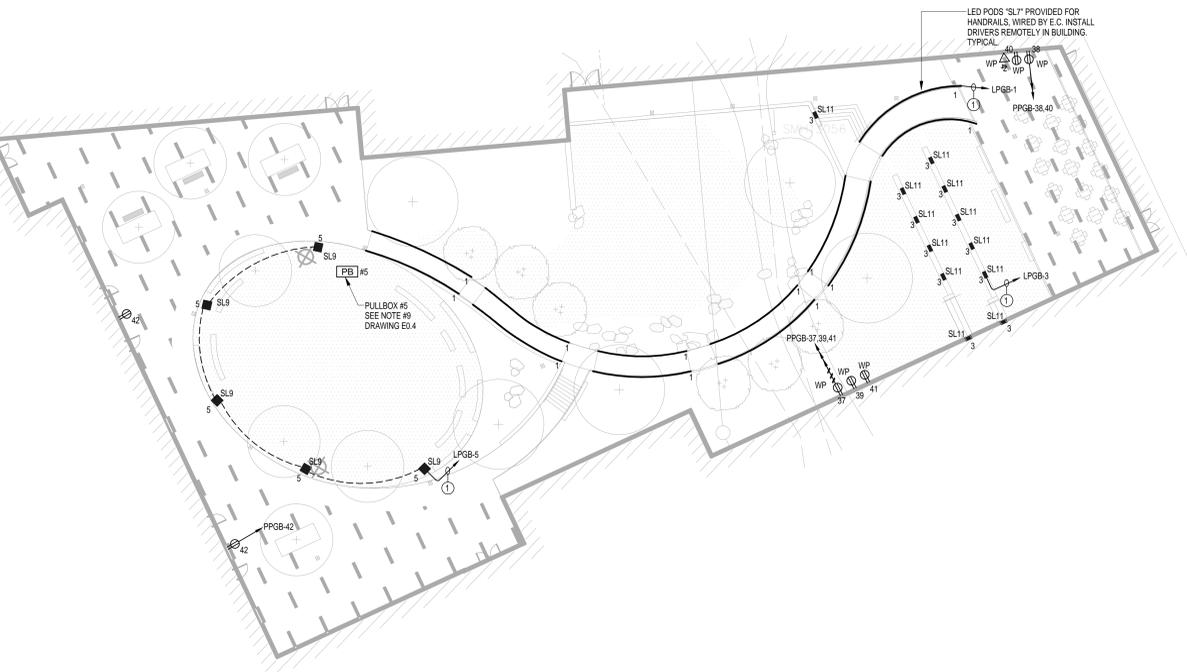
**2 GENERATOR PAD DETAIL**  
E0.5 SCALE: N.T.S.



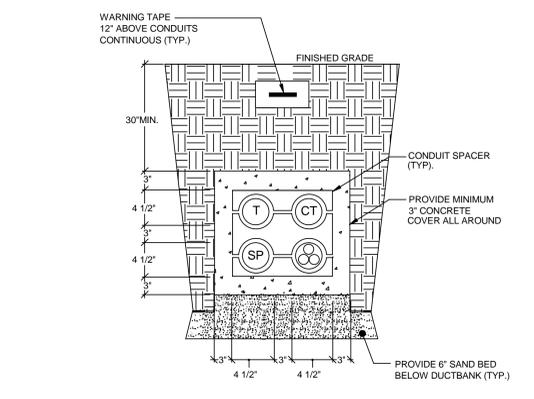
**3 OIL CONTAINMENT DETAIL**  
E0.5 SCALE: N.T.S.



**4 PRIMARY MANHOLE PMH-#**  
E0.5 SCALE: N.T.S.

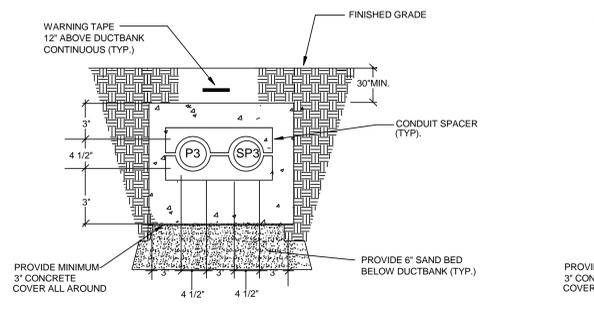


**5 ELECTRICAL COURTYARD PLAN**  
E0.5 SCALE: 1" = 20'-0"

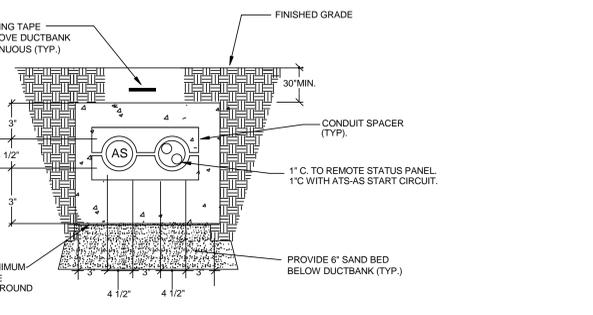


**6 TEL & CATV DUCT BANK SECTION "G-G"**  
E0.5 SCALE: N.T.S.

- CT 4" CABLE TV - SCHEDULE 40 P.V.C. PROVIDE PULL LINE IN CONDUIT.
- SP 4" SPARE - SCHEDULE 40 P.V.C. PROVIDE PULL LINE IN CONDUIT.
- T 4" TELEPHONE - SCHEDULE 40 P.V.C. PROVIDE PULL LINE IN CONDUIT.
- 4" CONDUIT - SCHEDULE 40 P.V.C. (3) 1 1/4" INNER DUCTS FOR FIBER

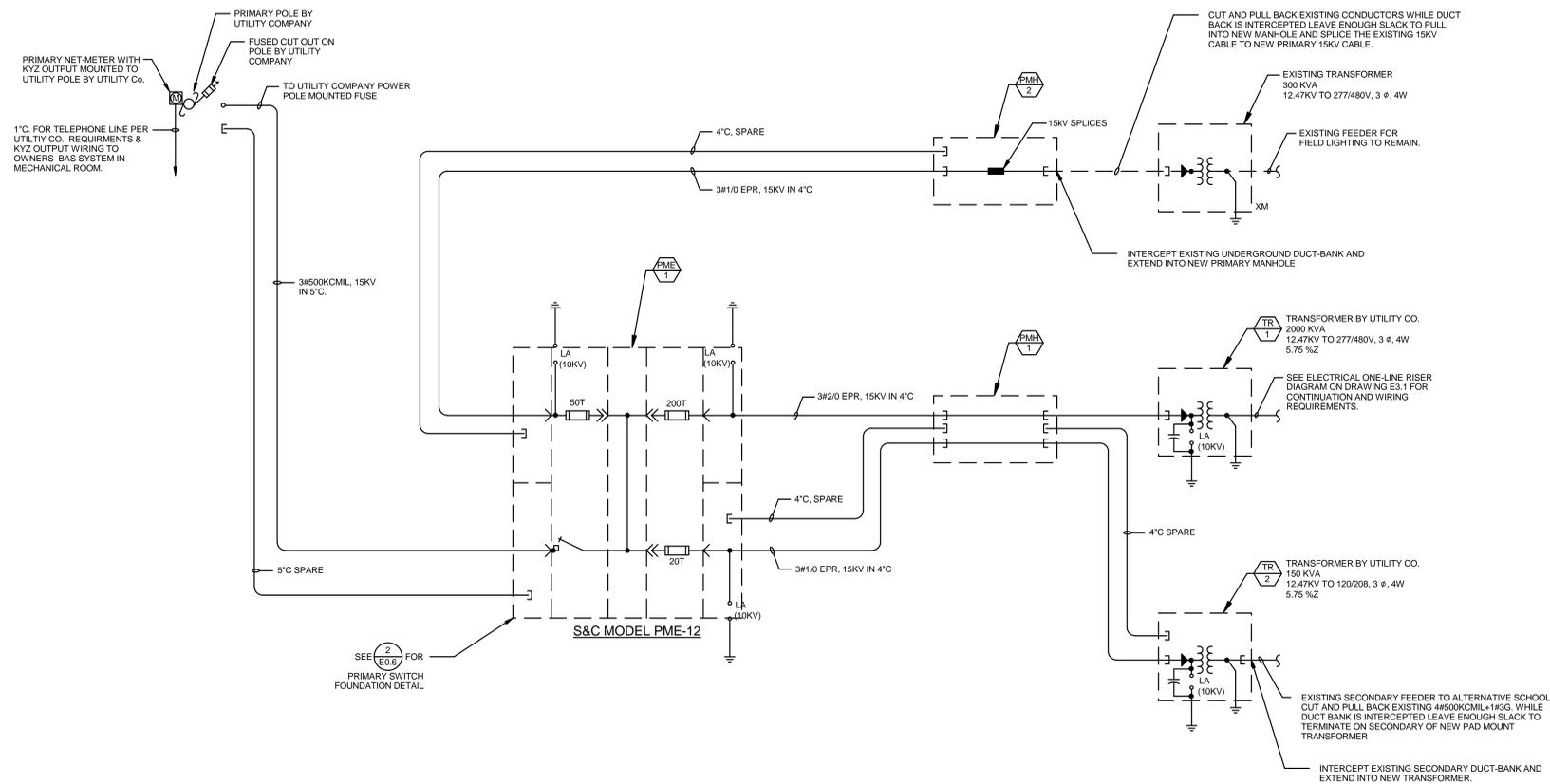


**7 PRIMARY DUCT BANK SECTION "H-H"**  
E0.5 SCALE: N.T.S.

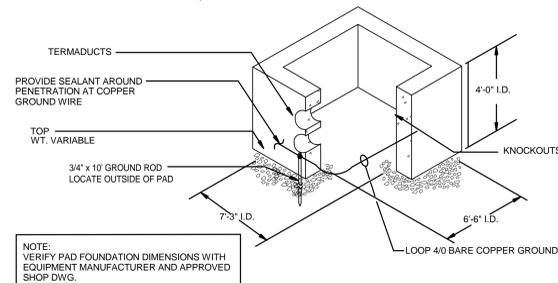
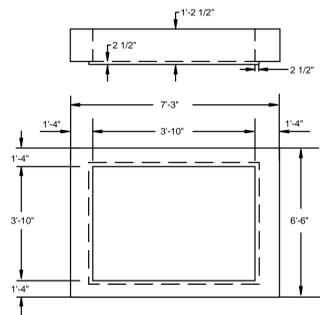


**8 ANIMAL SCIENCE DUCT BANK SECTION "I-I"**  
E0.5 SCALE: N.T.S.

- P3 4" PRIMARY (EXISTING SPORTS FIELD LIGHTING)
- SP3 4" SPARE - SCHEDULE 40 P.V.C. (PROVIDE PULL LINE)
- AS 4" ATS-AS SCHEDULE 40 P.V.C. WITH PULL LINE
- SCHEDULE 40 P.V.C. (2) 1" WITH PULL LINE



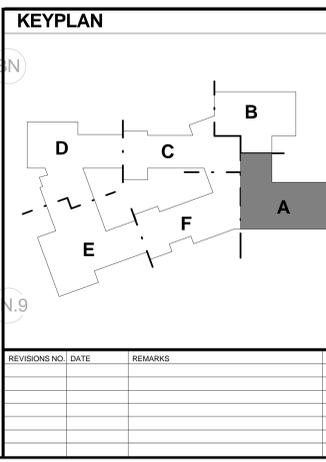
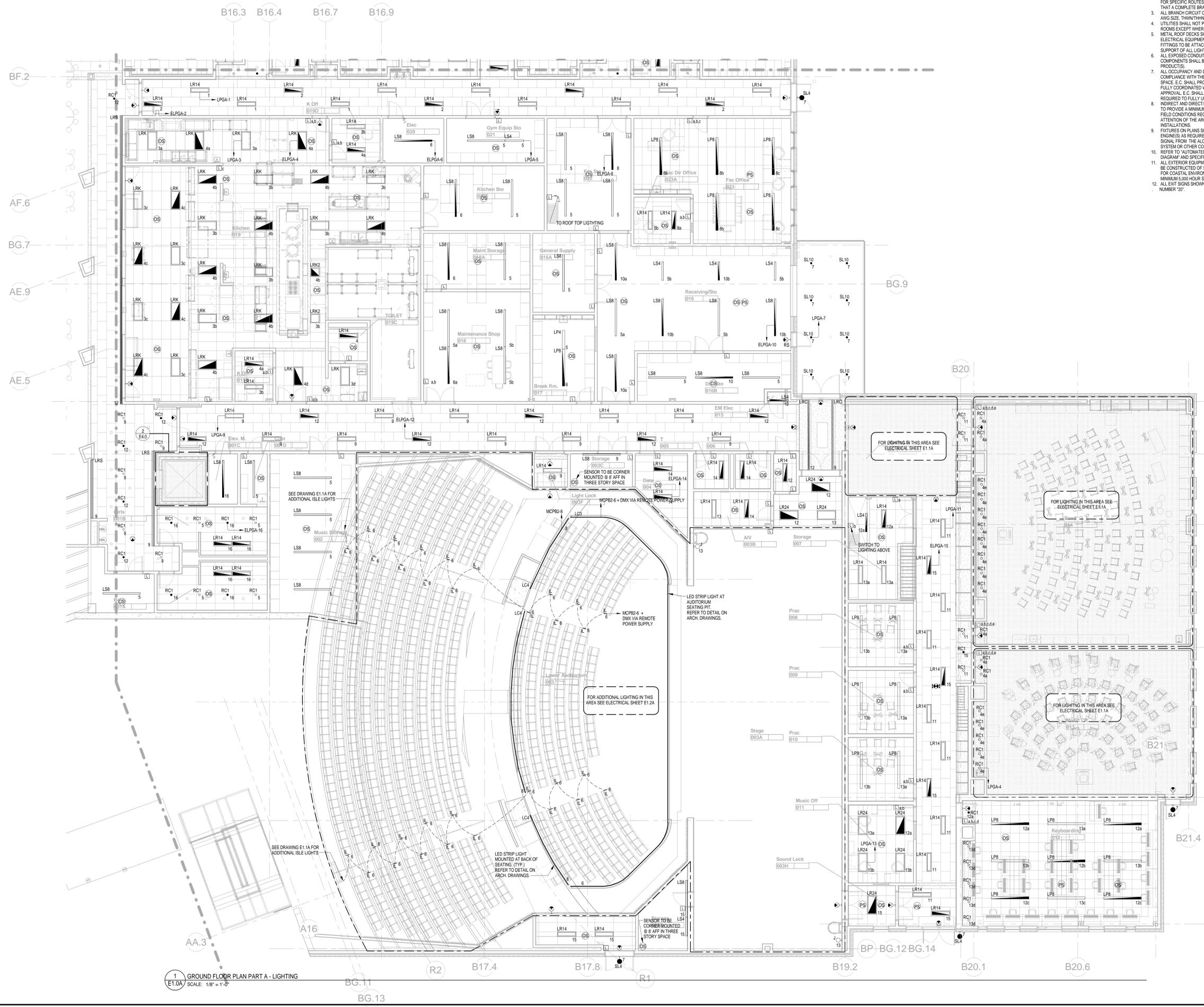
**1** PRIMARY VOLTAGE ONE LINE RISER DIAGRAM  
 E0.6 SCALE: N.T.S.



**2** PRIMARY SWITCH FOUNDATION PAD  
 E0.6 SCALE: N.T.S.



- GENERAL LIGHTING NOTES:**
1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THIN THIN INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  6. ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  8. INDIRECT AND DIRECT INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS (OR LIGHT ENGINEERS AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE A.C.S. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS).
  10. REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  11. ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED PER MINIMUM AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 500 HOURS SALT SPRAY TEST.
  12. ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELPGA" CIRCUIT NUMBER "20".

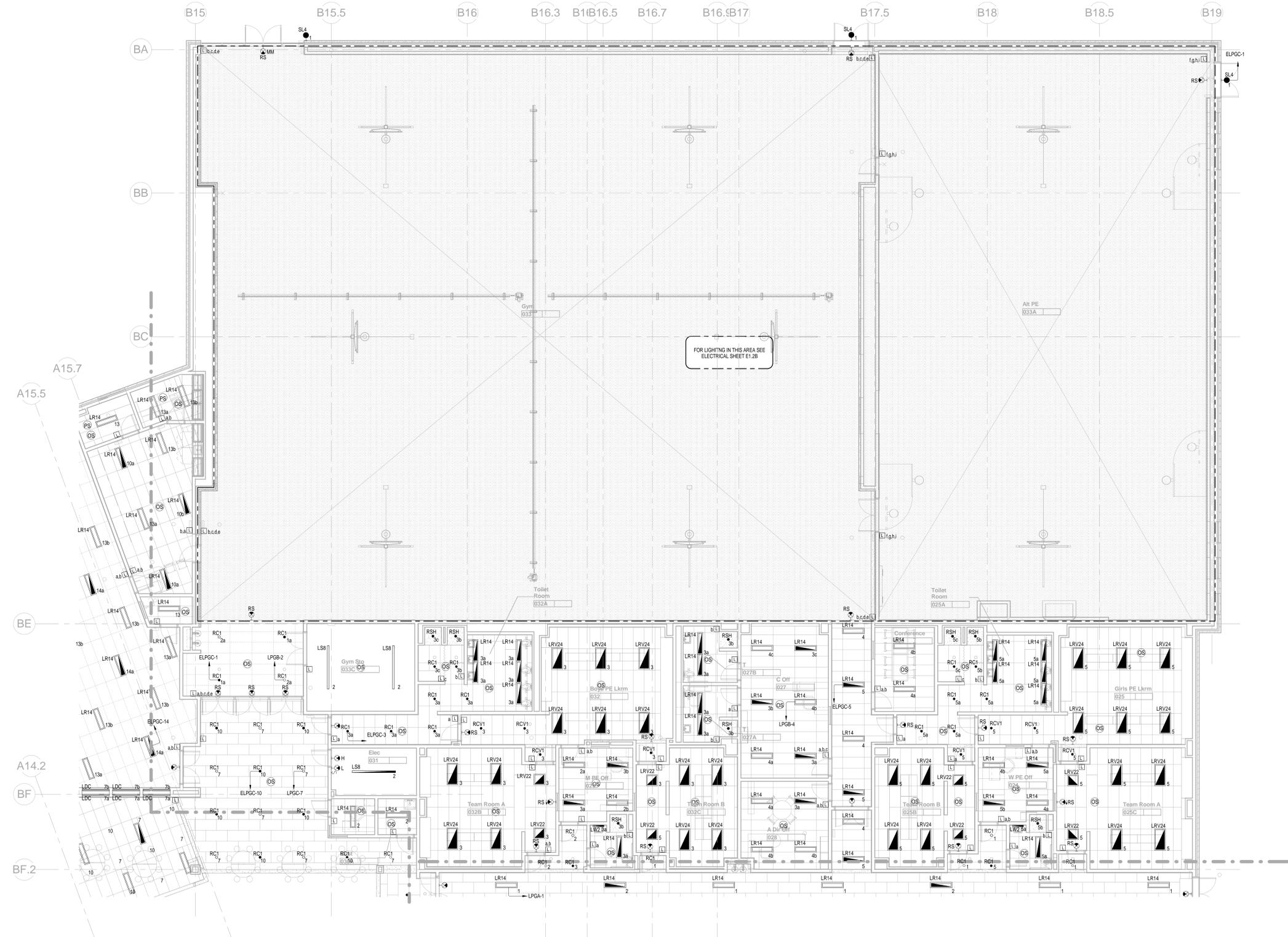


1 GROUND FLOOR PLAN PART A - LIGHTING  
E1.0A  
SCALE: 1/8" = 1'-0"



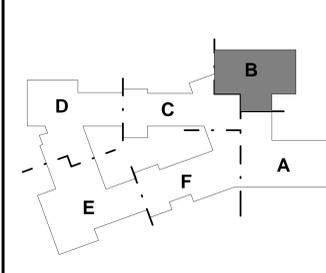
**GENERAL LIGHTING NOTES:**

- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
- WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
- METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSTRUCTURED OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
- ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
- ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
- INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
- FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS (S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE ALCS. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
- REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM' AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
- ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
- ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELPGA' CIRCUIT NUMBER '22'.



**1**  
**E1.0B** GROUND FLOOR PLAN PART B - LIGHTING  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

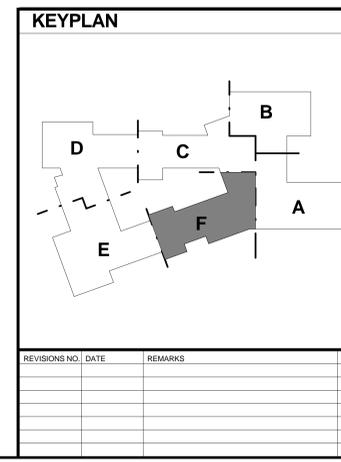
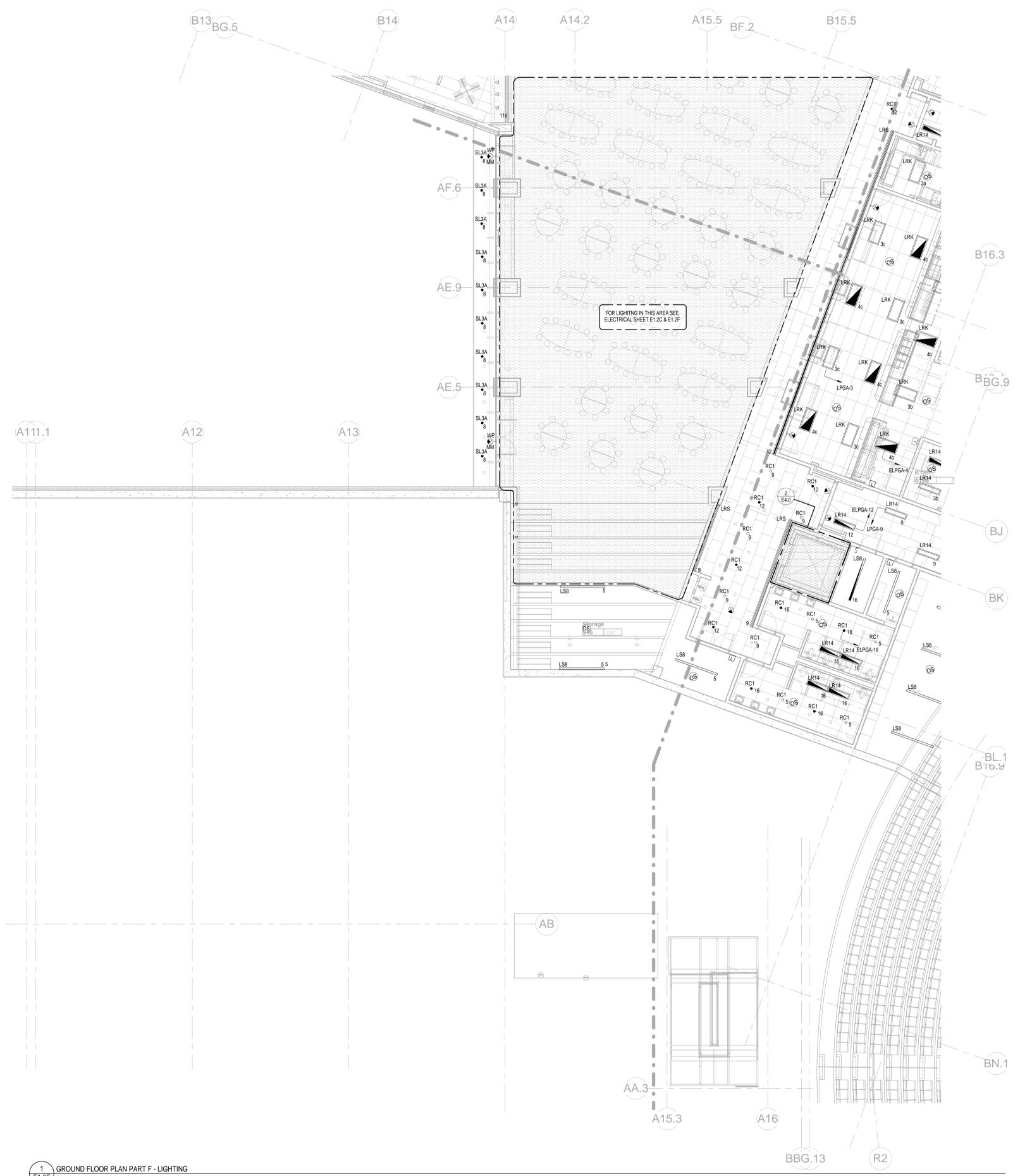


REVISIONS NO.	DATE	REMARKS	BY





- GENERAL LIGHTING NOTES:**
- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  - WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  - METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNTRUIT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  - ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS).
  - ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.G. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  - INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  - FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVER(S) OR LIGHT ENGINES AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCS. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  - REFER TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  - ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  - ALL EXIST SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELPGA' CIRCUIT NUMBER '24'.



1 GROUND FLOOR PLAN PART F - LIGHTING  
E1.0F SCALE: 1/8" = 1'-0"



GENERAL LIGHTING NOTES:

- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
- WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTIONS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
- METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
- ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
- ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
- INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
- FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS (OR LIGHT ENGINES) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE A.L.C.S. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
- REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM' AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
- ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 6000 HOUR SALT SPRAY TEST.
- ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELP2A' CIRCUIT NUMBER '13'.



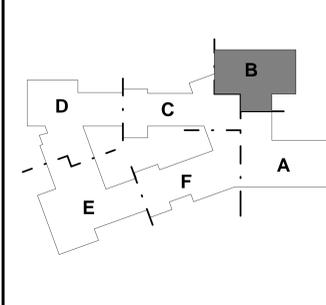


- GENERAL LIGHTING NOTES:**
- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  - WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN WATHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  - METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSUIT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  - ALL EXPOSED CONDUITS, RACEWAYS, WIRERAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  - ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.G. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.G. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  - INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  - FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVER(S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE ALCS DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  - REFER TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  - ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  - ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELP2A" CIRCUIT NUMBER "15".



1 FIRST FLOOR PLAN PART B - LIGHTING  
E1.1B SCALE: 1/8" = 1'-0"

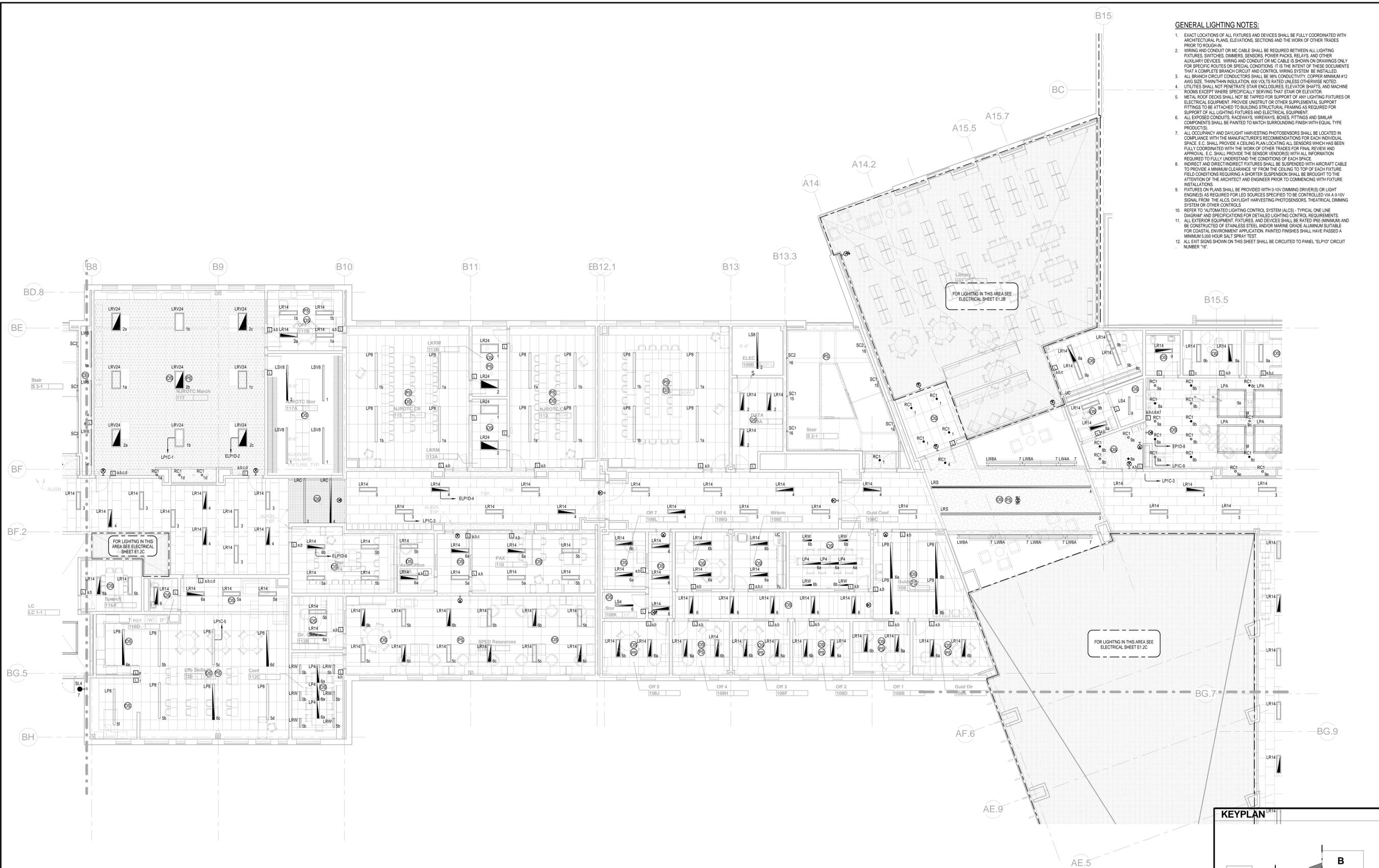
KEYPLAN



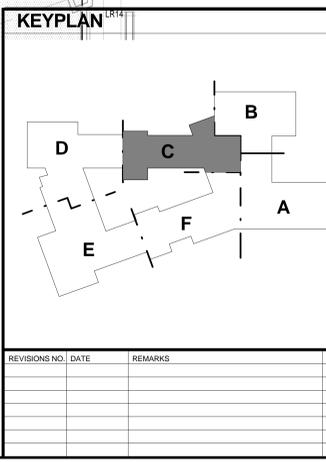
REVISIONS NO.	DATE	REMARKS	BY



- GENERAL LIGHTING NOTES:**
- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  - WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINWALL INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  - METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  - ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  - ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  - INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  - FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS OR LIGHT DIMMERS AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCS. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  - REFER TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  - ALL EXTERIOR EQUIPMENT, FIXTURES AND DEVICES SHALL BE RATED IN5 MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  - ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELP10" CIRCUIT NUMBER "16".

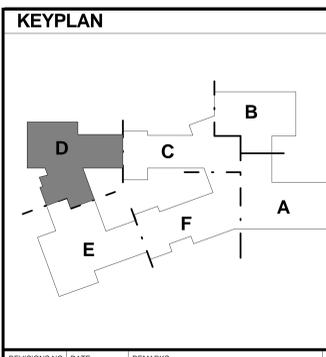
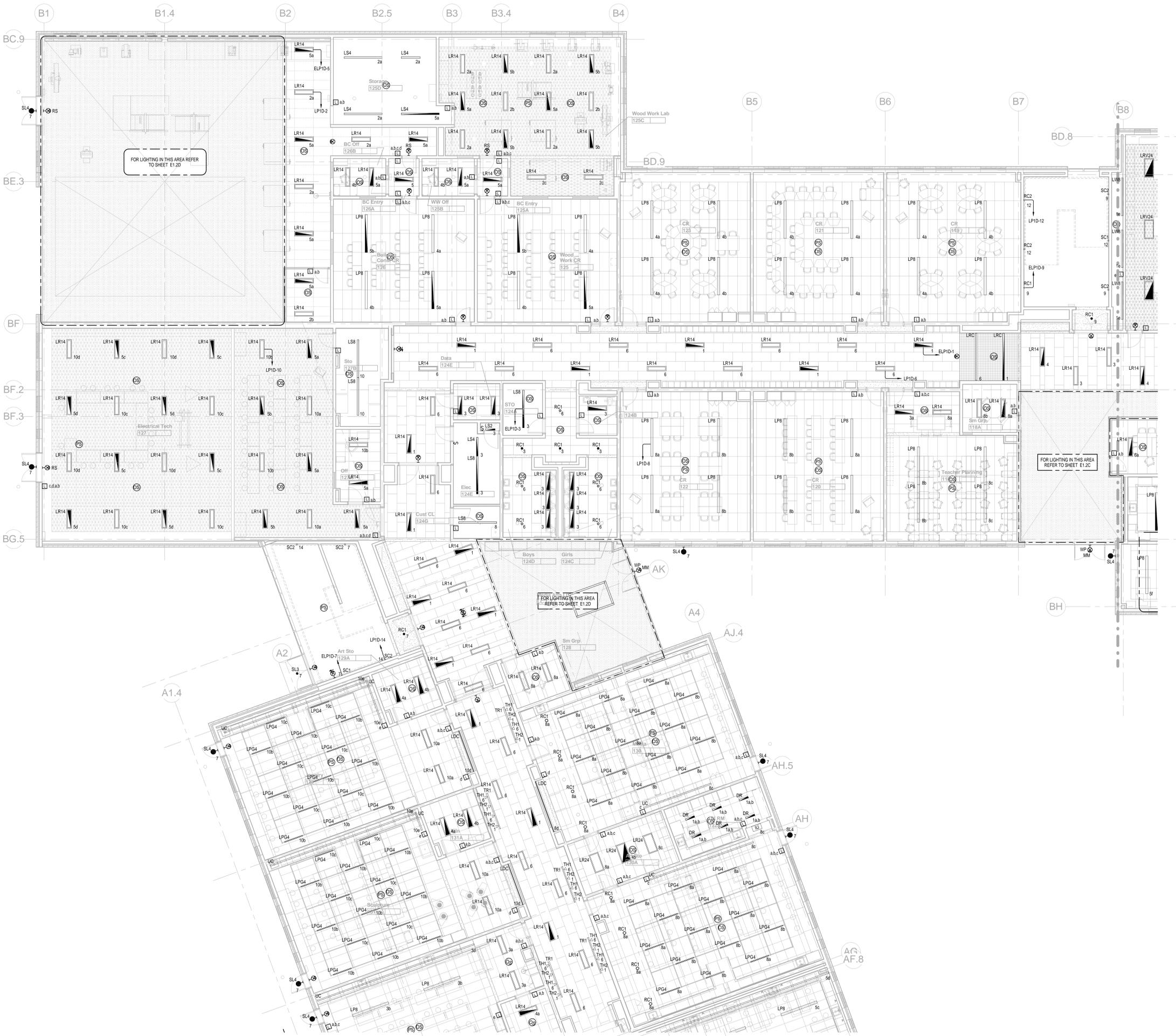


1  
E1.1C  
FIRST FLOOR PLAN PART C - LIGHTING  
SCALE: 1/8" = 1'-0"





- GENERAL LIGHTING NOTES:**
1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THIN W/THIN INSULATION, 500 VOLTS RATED UNLESS OTHERWISE NOTED.
  4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSTRUCTURED OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  6. ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDORS WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  8. INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVER(S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCES. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  10. REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  11. ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  12. ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELPID' CIRCUIT NUMBER '16'.

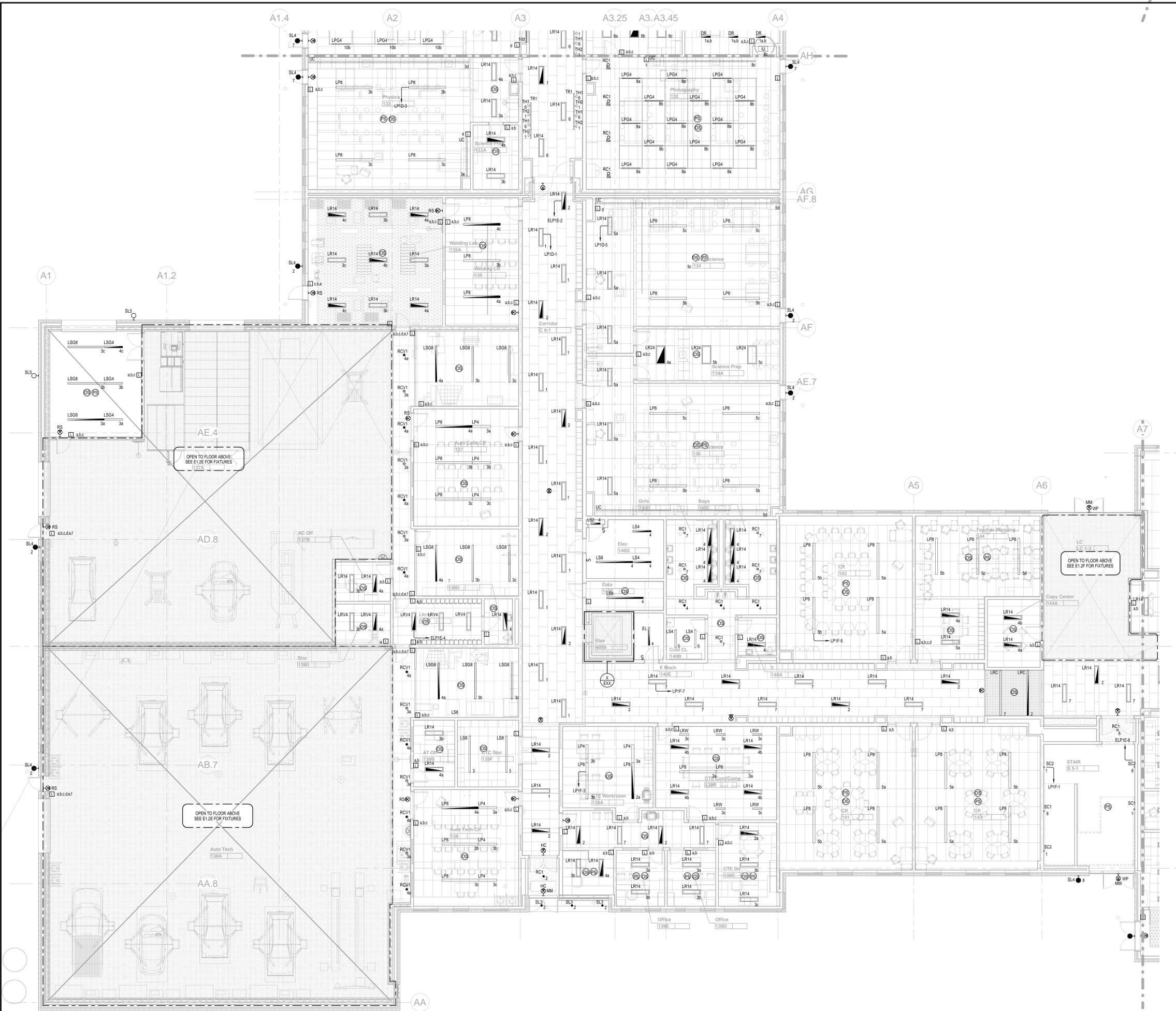


REVISIONS NO.	DATE	REMARKS	BY

1 FIRST FLOOR PLAN PART D - LIGHTING  
E1.1D SCALE: 1/8" = 1'-0"



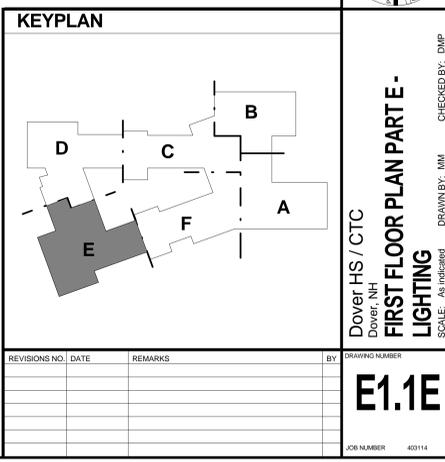
- GENERAL LIGHTING NOTES:**
1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO RUGH-IN.
  2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #80 CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THW/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSTRUCTURED OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  6. ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  8. INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE ALC'S. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  10. REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM' AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  11. ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  12. ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELPIE' CIRCUIT NUMBER '0'.



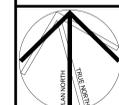
OPEN TO FLOOR ABOVE  
SEE E1.2E FOR FIXTURES  
137A

OPEN TO FLOOR ABOVE  
SEE E1.2E FOR FIXTURES  
144A

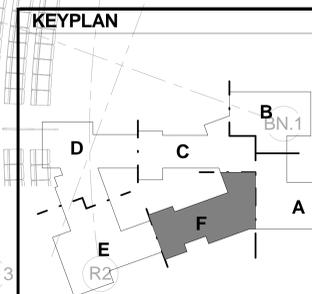
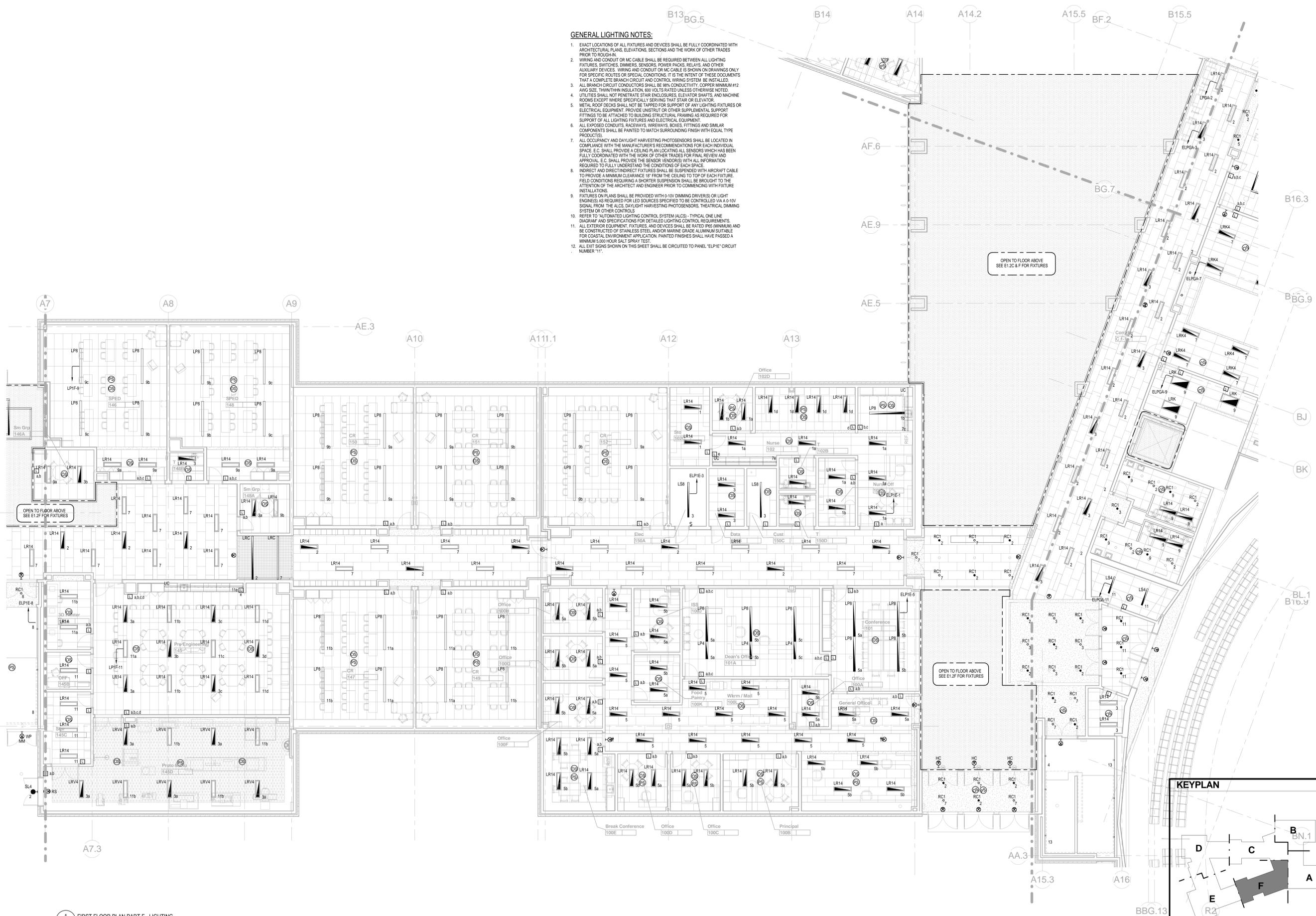
OPEN TO FLOOR ABOVE  
SEE E1.2E FOR FIXTURES  
138A



1 FIRST FLOOR PLAN PART E - LIGHTING  
E1.1E SCALE: 1/8" = 1'-0"



- GENERAL LIGHTING NOTES:**
1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSTRUCTURED OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  6. ALL EXPOSED CONDUITS, RACEWAYS, WIRINGWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  8. INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS(S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE ALCS. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROL.
  10. REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  11. ALL EXTERIOR EQUIPMENT FIXTURES, AND DEVICES SHALL BE RATED PER MINIMUM AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  12. ALL EXT. SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELPIE' CIRCUIT NUMBER '11'.



1 FIRST FLOOR PLAN PART F - LIGHTING  
E1.1F SCALE: 1/8" = 1'-0"

REVISIONS NO.	DATE	REMARKS	BY



- GENERAL LIGHTING NOTES:**
- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  - WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  - METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNBUILT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  - ALL EXPOSED CONDUITS, RACEWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCT(S).
  - ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDORS WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  - INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  - FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVER(S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE A.C.S. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  - REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM" AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  - ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
  - ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELP2A" CIRCUIT NUMBER "17".



1 SECOND FLOOR PLAN PART A - LIGHTING  
E1.2A  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

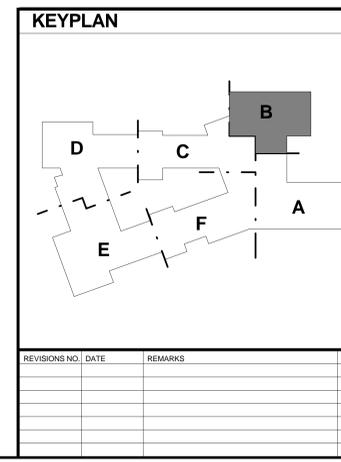
REVISIONS NO.	DATE	REMARKS	BY



- GENERAL LIGHTING NOTES:**
- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  - WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE. THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  - METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNSTRUCTURED OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  - ALL EXPOSED CONDUITS, RACEWAYS, WIREWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  - ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.G. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.G. SHALL PROVIDE THE SENSOR VENDORS WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  - INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE: 10" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  - FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVER(S) OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA A 0-10V SIGNAL FROM THE ALSO DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  - REFER TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  - ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5000 HOUR SALT SPRAY TEST.
  - ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELP2A' CIRCUIT NUMBER '21'.



1 SECOND FLOOR PLAN PART B - LIGHTING  
E1.2B SCALE: 1/8" = 1'-0"





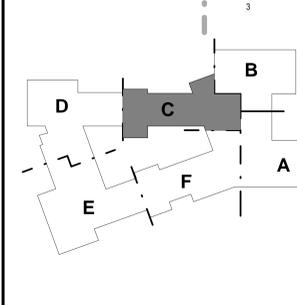
**GENERAL LIGHTING NOTES:**

1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE. THIN THIN INSULATION (TTH) IS RATED UNLESS OTHERWISE NOTED.
4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
6. ALL EXPOSED CONDUITS, RACEWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDORS WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
8. INDIRECT AND DIRECTIONAL FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS OR LIGHT ENGINEERS AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE A.L.C.S. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
10. REFER TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
11. ALL EXTERIOR EQUIPMENT, FIXTURES AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 500 HOUR SALT SPRAY TEST.
12. ALL EXT. SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELP10" CIRCUIT NUMBER "20".



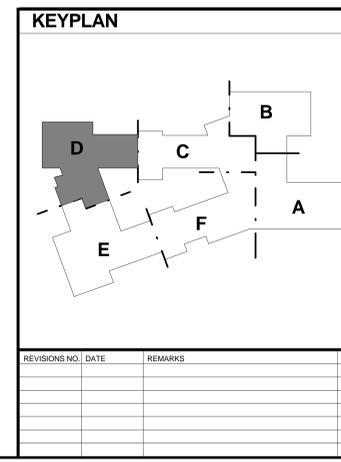
1 SECOND FLOOR PLAN PART C - LIGHTING  
E1.2C SCALE: 1/8" = 1'-0"

**KEYPLAN**



REVISIONS NO.	DATE	REMARKS	BY

- GENERAL LIGHTING NOTES:**
1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
  2. WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
  3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
  5. METAL ROOF DECK SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRU' OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
  6. ALL EXPOSED CONDUITS, RACEWAYS, BOXES, FITTINGS AND SIMILAR COMPONENTS SHALL BE PAINTED TO MATCH SURROUNDING FINISH WITH EQUAL TYPE PRODUCTS.
  7. ALL OCCUPANCY AND DAYLIGHT HARVESTING PHOTOSENSORS SHALL BE LOCATED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EACH INDIVIDUAL SPACE. E.C. SHALL PROVIDE A CEILING PLAN LOCATING ALL SENSORS WHICH HAS BEEN FULLY COORDINATED WITH THE WORK OF OTHER TRADES FOR FINAL REVIEW AND APPROVAL. E.C. SHALL PROVIDE THE SENSOR VENDOR(S) WITH ALL INFORMATION REQUIRED TO FULLY UNDERSTAND THE CONDITIONS OF EACH SPACE.
  8. INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
  9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS OR LIGHT ENGINEERS AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCS, DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
  10. REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM' AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
  11. ALL EXTERIOR EQUIPMENT FIXTURES AND DEVICES SHALL BE RATED 1916 MINIMUM AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 500 HOUR SALT SPRAY TEST.
  12. ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELP10' CIRCUIT NUMBER '22'.



**1 SECOND FLOOR PLAN PART D - LIGHTING**  
E1.2D SCALE: 1/8" = 1'-0"

Dover HS / CTC  
Dover, NH  
**SECOND FLOOR PLAN PART D - LIGHTING**  
SCALE: As Indicated  
DRAWN BY: IMM  
CHECKED BY: DMP  
DRAWING NUMBER  
**E1.2D**  
JOB NUMBER 403114

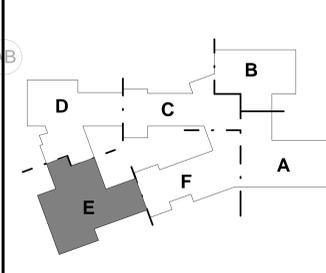


GENERAL LIGHTING NOTES:

- EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
- WIRING AND CONDUIT OR MC CABLE SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, SWITCHES, DIMMERS, SENSORS, POWER PACKS, RELAYS, AND OTHER AUXILIARY DEVICES. WIRING AND CONDUIT OR MC CABLE IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT AND CONTROL WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 80% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN-WALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
- METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
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- INDIRECT AND DIRECT INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
- FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING (DRIVERS) OR LIGHT ENGINEERS AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCS, DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
- REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM" AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
- ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 (MINIMUM) AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 5,000 HOUR SALT SPRAY TEST.
- ALL EXISTING SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL "ELP1E" CIRCUIT NUMBER 13.



KEYPLAN



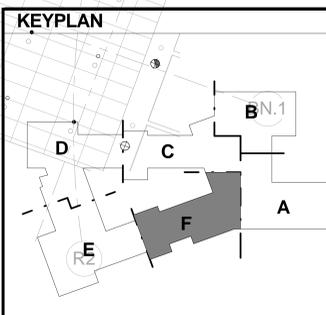
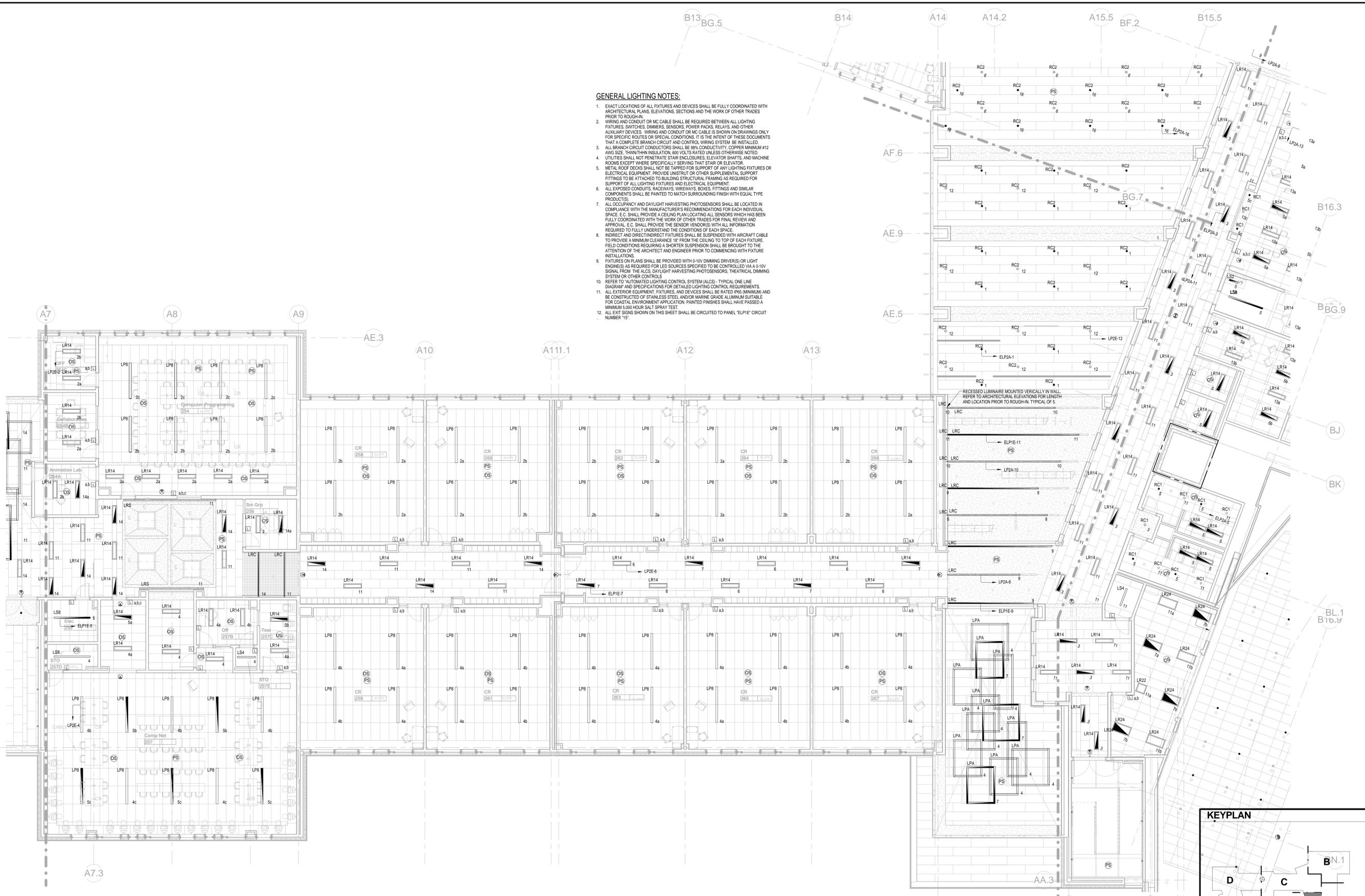
REVISIONS NO.	DATE	REMARKS	BY

1 SECOND FLOOR PLAN PART E - LIGHTING  
E1.2E SCALE: 1/8" = 1'-0"



**GENERAL LIGHTING NOTES:**

1. EXACT LOCATIONS OF ALL FIXTURES AND DEVICES SHALL BE FULLY COORDINATED WITH ARCHITECTURAL PLANS, ELEVATIONS, SECTIONS AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
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3. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE 90% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 600 VOLT RATED UNLESS OTHERWISE NOTED.
4. UTILITIES SHALL NOT PENETRATE STAIR ENCLOSURES, ELEVATOR SHAFTS, AND MACHINE ROOMS EXCEPT WHERE SPECIFICALLY SERVING THAT STAIR OR ELEVATOR.
5. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDING STRUCTURAL FRAMING AS REQUIRED FOR SUPPORT OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.
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8. INDIRECT AND DIRECT/INDIRECT FIXTURES SHALL BE SUSPENDED WITH AIRCRAFT CABLE TO PROVIDE A MINIMUM CLEARANCE 18" FROM THE CEILING TO TOP OF EACH FIXTURE. FIELD CONDITIONS REQUIRING A SHORTER SUSPENSION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO COMMENCING WITH FIXTURE INSTALLATIONS.
9. FIXTURES ON PLANS SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS OR LIGHT ENGINE(S) AS REQUIRED FOR LED SOURCES SPECIFIED TO BE CONTROLLED VIA 0-10V SIGNAL FROM THE ALCS. DAYLIGHT HARVESTING PHOTOSENSORS, THEATRICAL DIMMING SYSTEM OR OTHER CONTROLS.
10. REFER TO 'AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) - TYPICAL ONE LINE DIAGRAM' AND SPECIFICATIONS FOR DETAILED LIGHTING CONTROL REQUIREMENTS.
11. ALL EXTERIOR EQUIPMENT, FIXTURES, AND DEVICES SHALL BE RATED IP65 MINIMUM AND BE CONSTRUCTED OF STAINLESS STEEL AND/OR MARINE GRADE ALUMINUM SUITABLE FOR COASTAL ENVIRONMENT APPLICATION. PAINTED FINISHES SHALL HAVE PASSED A MINIMUM 500 HOUR SALT SPRAY TEST.
12. ALL EXIT SIGNS SHOWN ON THIS SHEET SHALL BE CIRCUITED TO PANEL 'ELP1E' CIRCUIT NUMBER '15'.



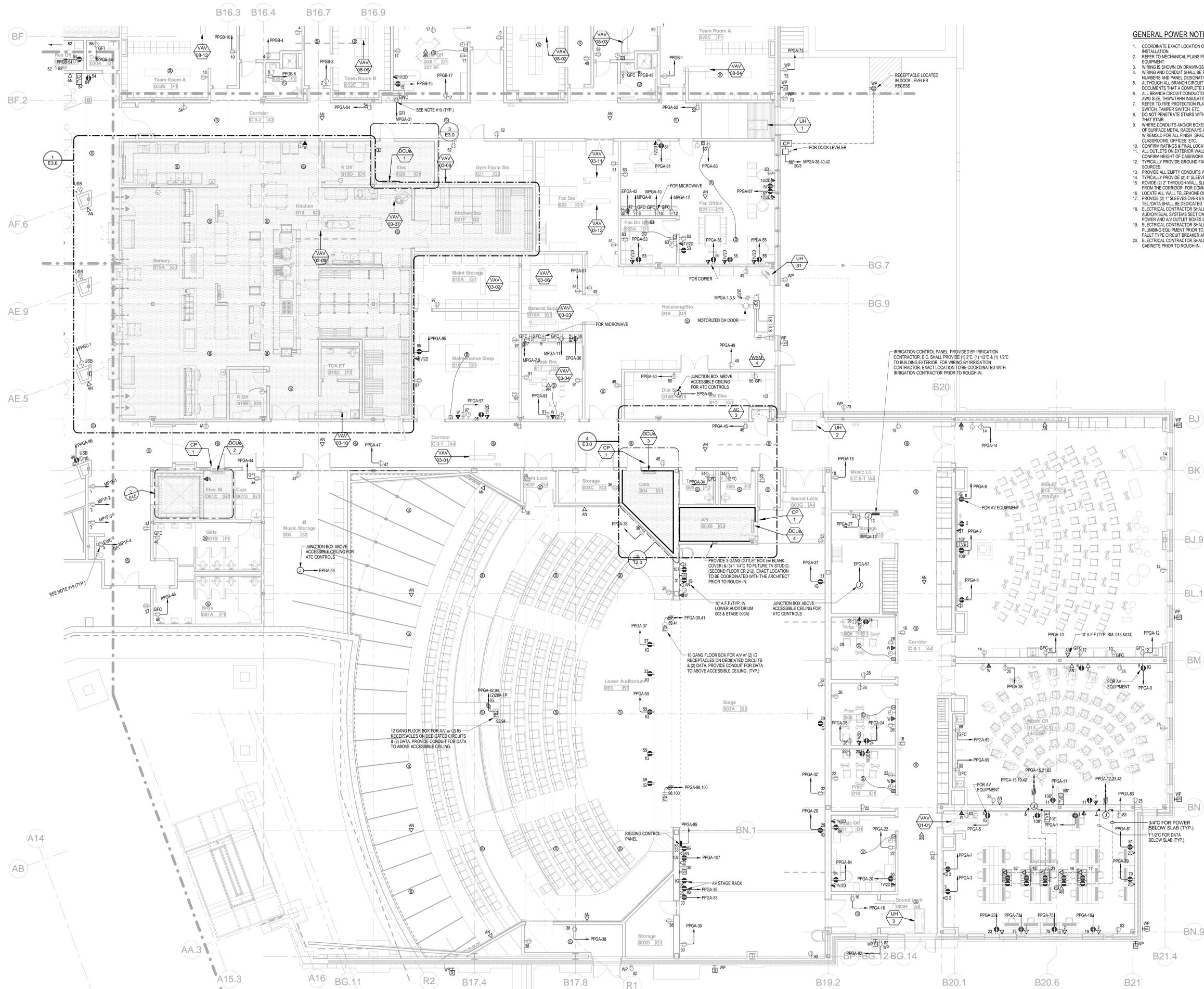
1 SECOND FLOOR PLAN PART F - LIGHTING  
ET.2F SCALE: 1/8" = 1'-0"

REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B



**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIRTYTHREE (33) INCHES INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACKWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 308, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- PROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL DATA SHALL BE DESIGNATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR ADDITIONAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



1  
E2.0A  
GROUND FLOOR PLAN PART A - POWER  
SCALE: 1/8" = 1'-0"

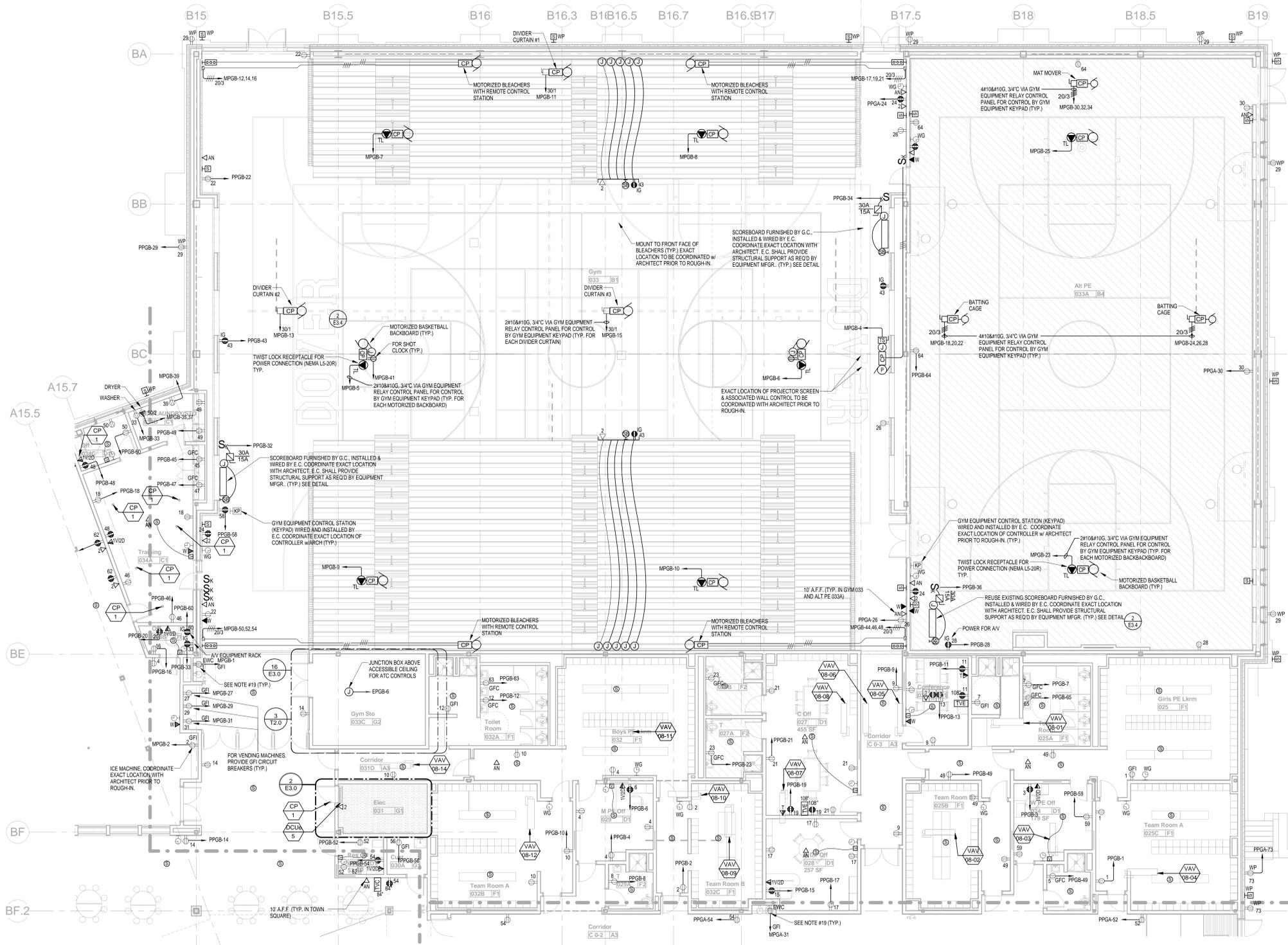
**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY
A	2016-08-23	Addendum A	A
B	2016-09-01	Addendum B	B



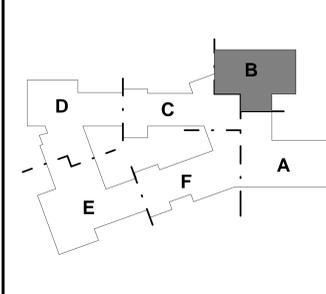
GENERAL POWER NOTES:

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% COPPER CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 90°C RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 1' ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- REMOVE (2) 2" THROUGH-WALL SLEEVES ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON ANY DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



1 GROUND FLOOR PLAN PART B - POWER  
SCALE: 1/8" = 1'-0"

KEYPLAN



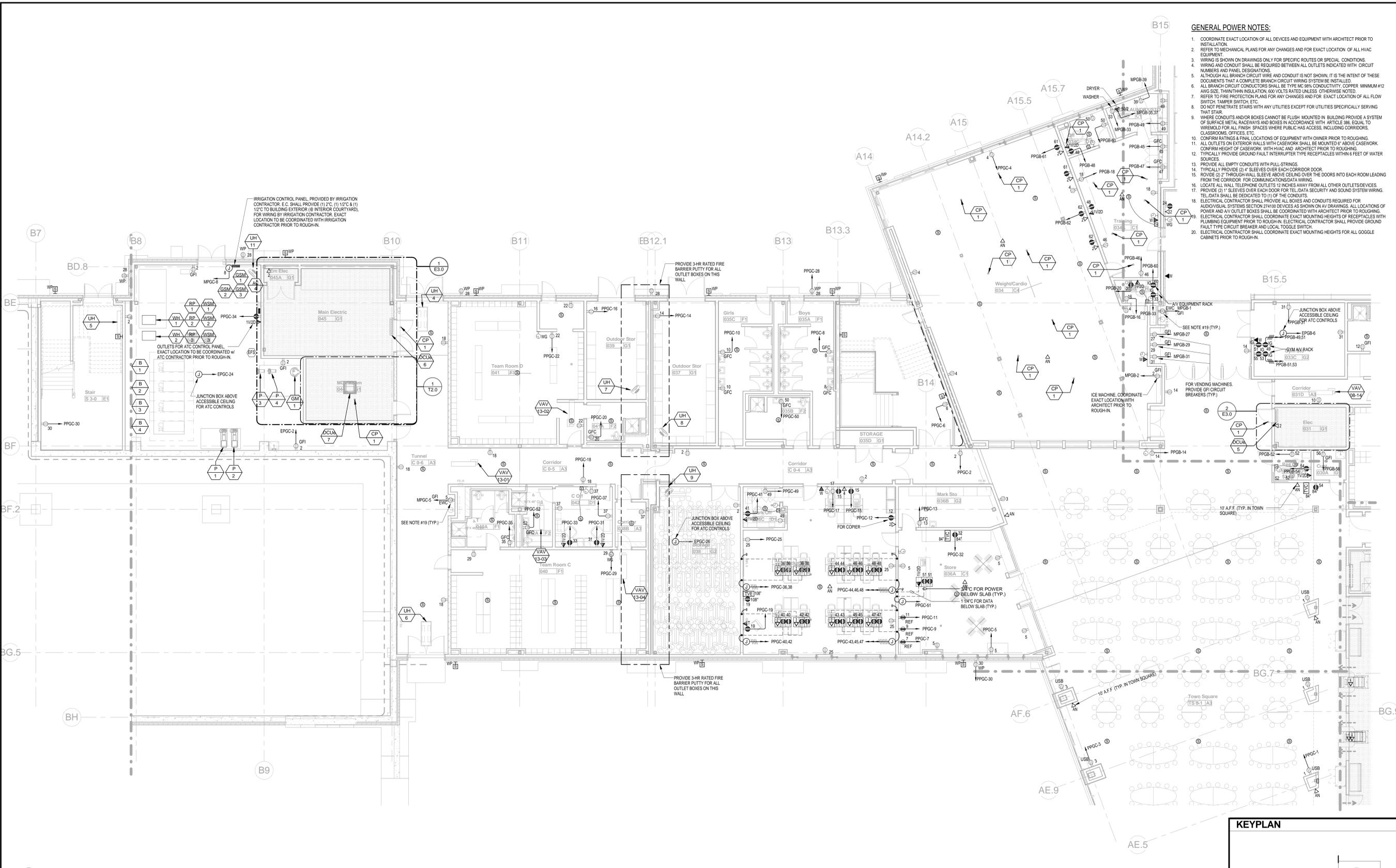
REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

E2.0B

JOB NUMBER 40114



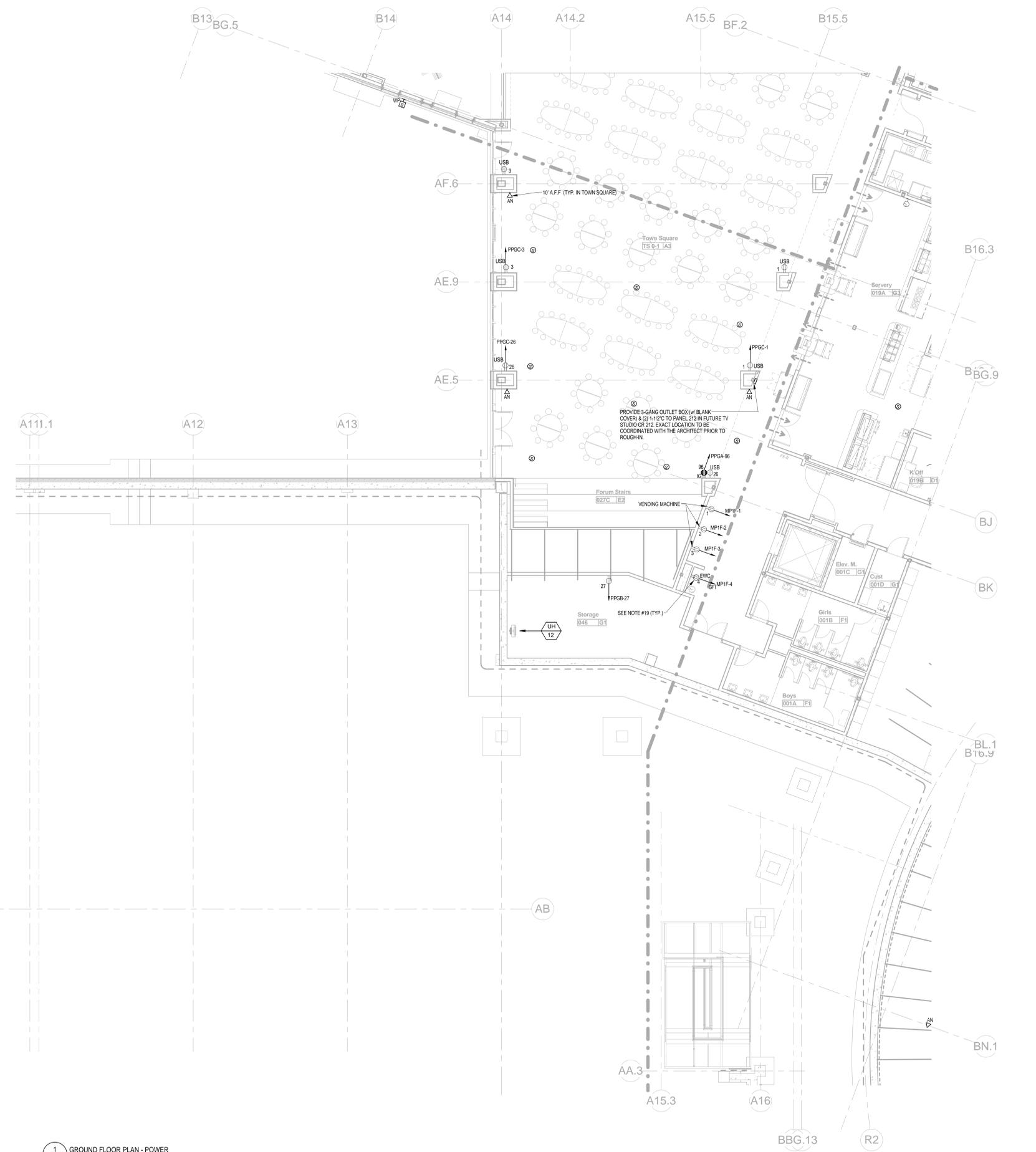
- GENERAL POWER NOTES:**
- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
  - REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
  - WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
  - WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
  - ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINWALL INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
  - DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
  - WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 398 EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
  - CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
  - ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
  - PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
  - TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
  - ROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS WIRING.
  - LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
  - PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TELEVISION SECURITY AND SOUND SYSTEM WIRING. TEL. DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 27100 DEVICES AS SHOWN ON ALL DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGHING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



**1** GROUND FLOOR PLAN PART C - POWER  
E2.0C  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B



- GENERAL POWER NOTES:**
- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
  - REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
  - WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
  - WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
  - ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY, COPPER, MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 90V VOLTS RATED UNLESS OTHERWISE NOTED.
  - REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
  - DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
  - WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
  - CONFIRM FINISHES & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
  - ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
  - PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
  - TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
  - ROUNDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR. FOR COMMUNICATIONS DATA WIRING.
  - LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS DEVICES.
  - PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL. DATA SECURITY AND SOUND SYSTEM WIRING. TEL. DATA SHALL BE DESIGNATED TO (1) OF THE CONDUITS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGHING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOGGLE CABINETS PRIOR TO ROUGHING.

1  
E2.0F  
GROUND FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

**HM FH ARCHITECTS**

130 Bishop Allen Drive  
Dover, NH 03820  
603.732.2000  
@HMFHArch

**GARCIA GALLUSKA DESOUSA**  
Principal  
100% CONFORMED SET - FOR CONSTRUCTION  
9/12/16

**POWER**

Dover, NH / CTC  
Dover, NH  
POWER  
SCALE: As Indicated

DRAWN BY: MB  
CHECKED BY: DMP

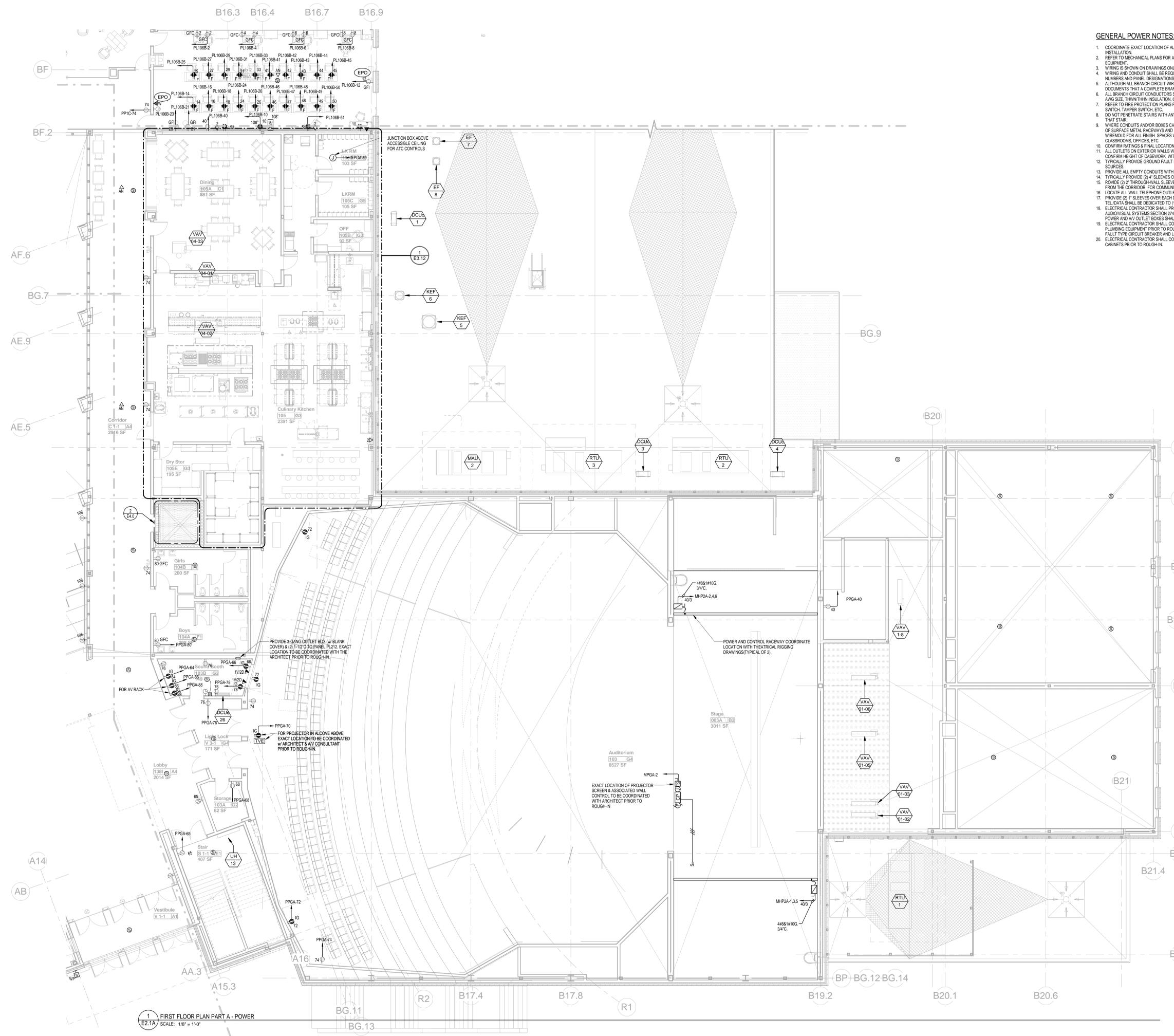
DRAWING NUMBER  
**E2.0F**

JOB NUMBER 403114



**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 30% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 366, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- PROVIDE (2) 2" THROUGH-WALL SLEEVES ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS/DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL/DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR INDIVIDUAL SYSTEMS SECTION 27100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



**KEYPLAN**

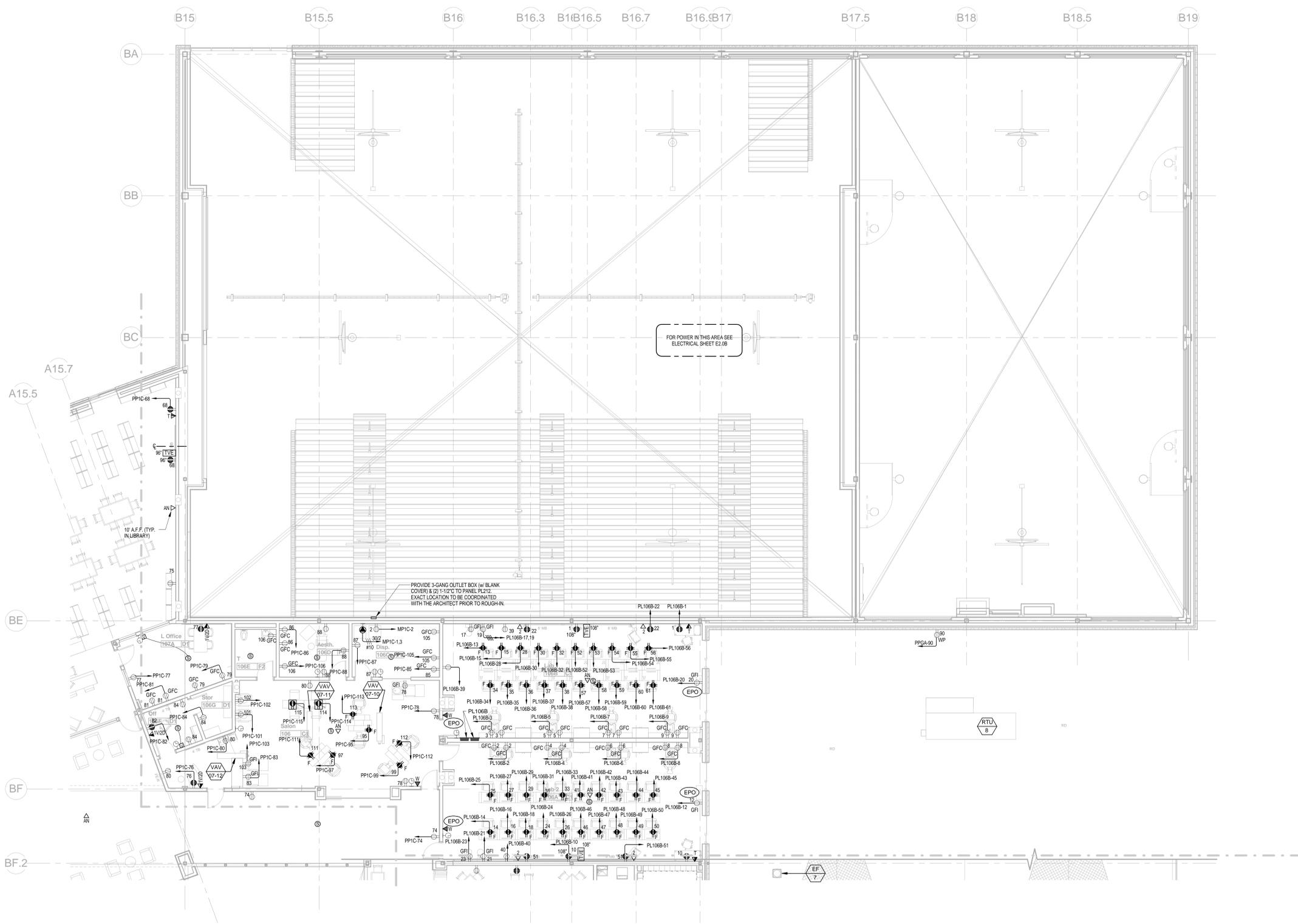
REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

1 E2.1A  
FIRST FLOOR PLAN PART A - POWER  
SCALE: 1/8" = 1'-0"



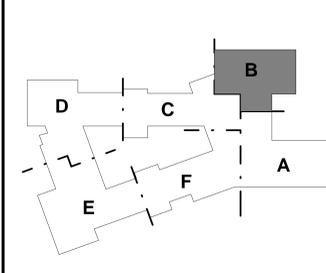
**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 89% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TRIPPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WIRING FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 4" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGH-INS.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- ROUTE (2) 2" THROUGH WALL SLEEVES ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL/DATA SECURITY AND SOUND SYSTEM WIRING. TEL/DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIO/VISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-INS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKERS AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



1 FIRST FLOOR PLAN PART B - POWER  
E2.1B SCALE: 1/8" = 1'-0"

**KEYPLAN**

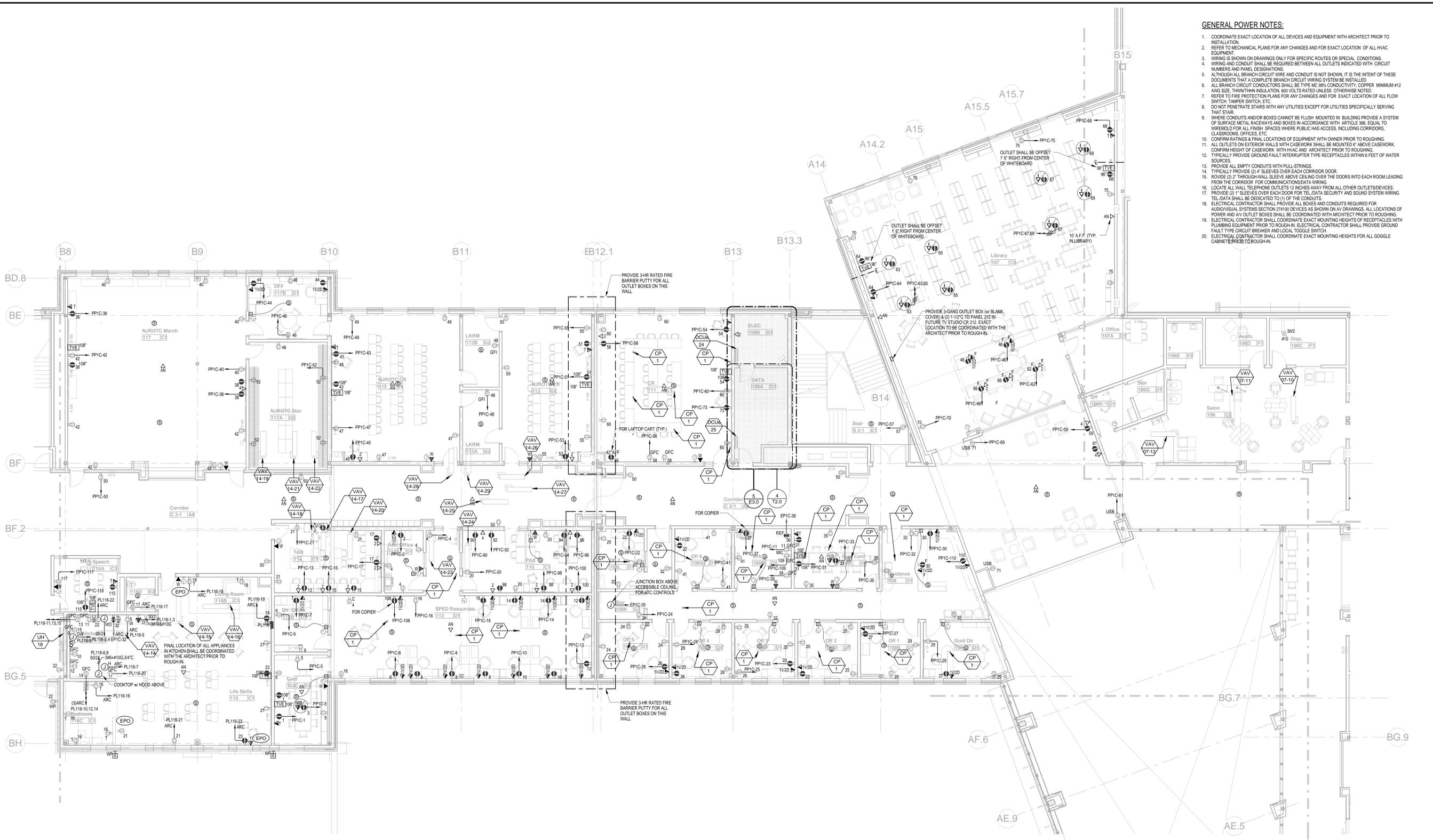


REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B



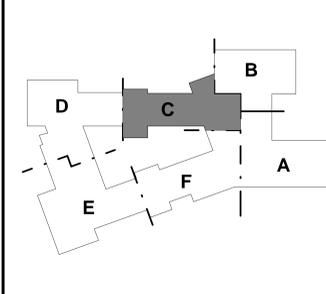
**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THW/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WRENHOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS SHALL BE MOUNTED IF ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- ROUVE (2) 2" THROUGH-WALL SLEEVES ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLET DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL, DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



1 FIRST FLOOR PLAN PART C - POWER  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

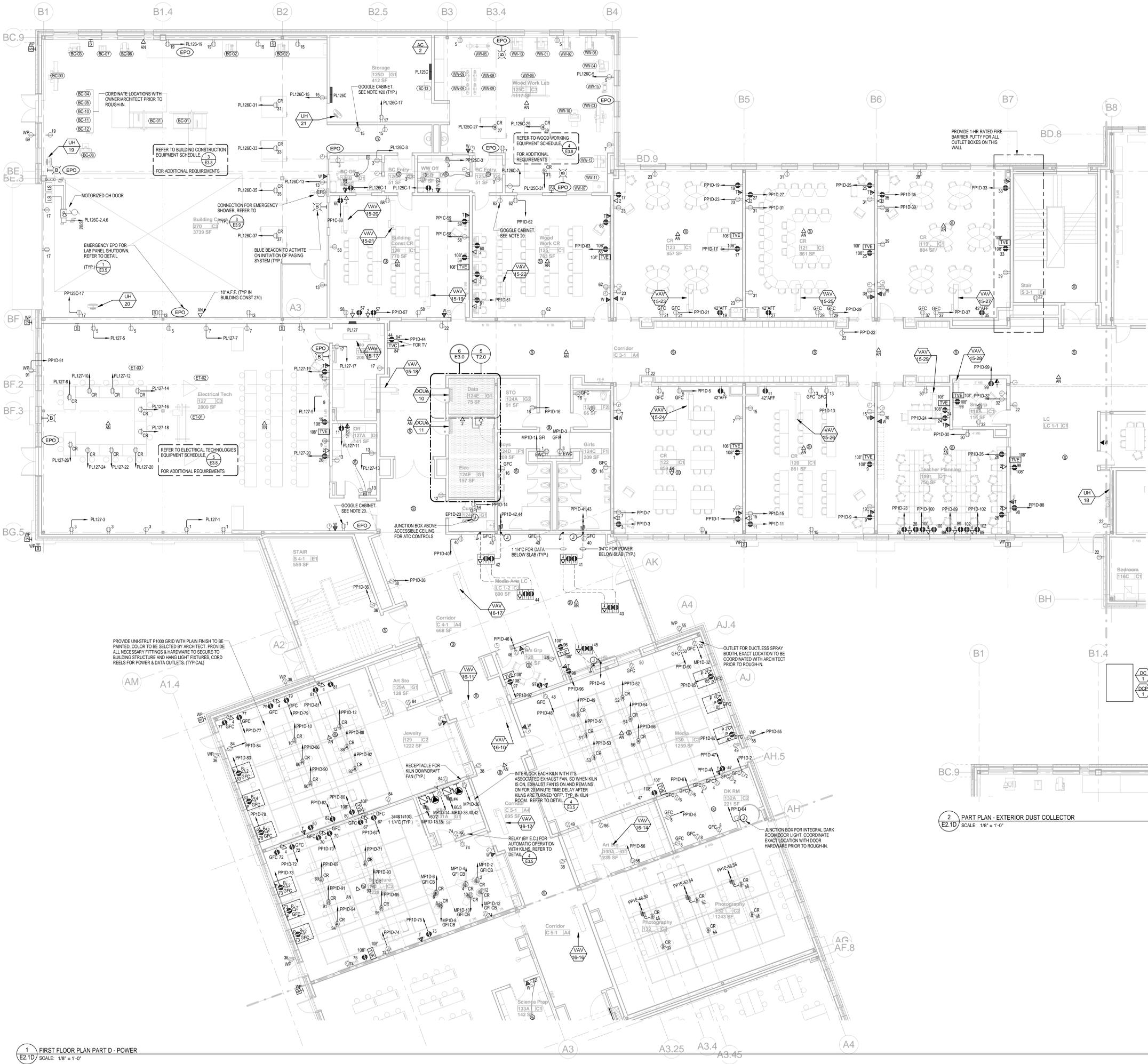


REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B



**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY, COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 800 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO THE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, CODE TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM FINISHES & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK, CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6' OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- ROUTE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12" AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL/DATA SECURITY AND SOUND SYSTEM WIRING.
- TEL/DATA SHALL BE DESIGNATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR ADDITIONAL SYSTEMS SECTION 27400 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGHING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



COORDINATE LOCATIONS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

REFER TO BUILDING CONSTRUCTION EQUIPMENT SCHEDULE (E3.3) FOR ADDITIONAL REQUIREMENTS.

MOTORIZED OH DOOR

EMERGENCY EPO FOR LAB PANEL SHUTDOWN. REFER TO DETAIL (E3.5)

CONNECTION FOR EMERGENCY SHOWER. REFER TO (E3.3)

BLUE BEACON TO ACTIVATE ON INITIATION OF PAGING SYSTEM (TYP.)

10' A.F.F. (TYP. IN BUILDING CONST 270)

REFER TO ELECTRICAL TECHNOLOGIES EQUIPMENT SCHEDULE (E3.3) FOR ADDITIONAL REQUIREMENTS.

GOOGLE CABINET. SEE NOTE 20.

JUNCTION BOX ABOVE FOR ATC CONTROLS

114°C FOR DATA BELOW SLAB (TYP.)

34°C FOR POWER BELOW SLAB (TYP.)

RECEPTACLE FOR KILN DOWNDRAFT FAN (TYP.)

INTERLOCK EACH KILN WITH ITS ASSOCIATED EXHAUST FAN. SO WHEN KILN IS ON, EXHAUST FAN IS ON AND REMAINS ON FOR 20 MINUTE TIME DELAY AFTER KILNS ARE TURNED OFF. TYP. IN KILN ROOM. REFER TO DETAIL (E3.5)

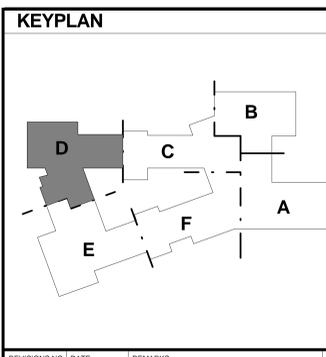
RELAY (BY E.C. FOR AUTOMATIC OPERATION WITH KILNS. REFER TO DETAIL (E3.5)

OUTLET FOR DUCTLESS SPRAY BOOTH. EXACT LOCATION TO BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.

JUNCTION BOX FOR INTEGRAL DARK ROOM DOOR LIGHT. COORDINATE EXACT LOCATION WITH DOOR HARDWARE PRIOR TO ROUGH-IN.

PROVIDE UNISTRUT P1000 GRID WITH PLAIN FINISH TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT. PROVIDE ALL NECESSARY FITTINGS & HARDWARE TO SECURE TO BUILDING STRUCTURE AND HANG LIGHT FIXTURES. CONDUIT REELS FOR POWER & DATA OUTLETS. (TYPICAL)

2 PART PLAN - EXTERIOR DUST COLLECTOR  
SCALE: 1/8" = 1'-0"



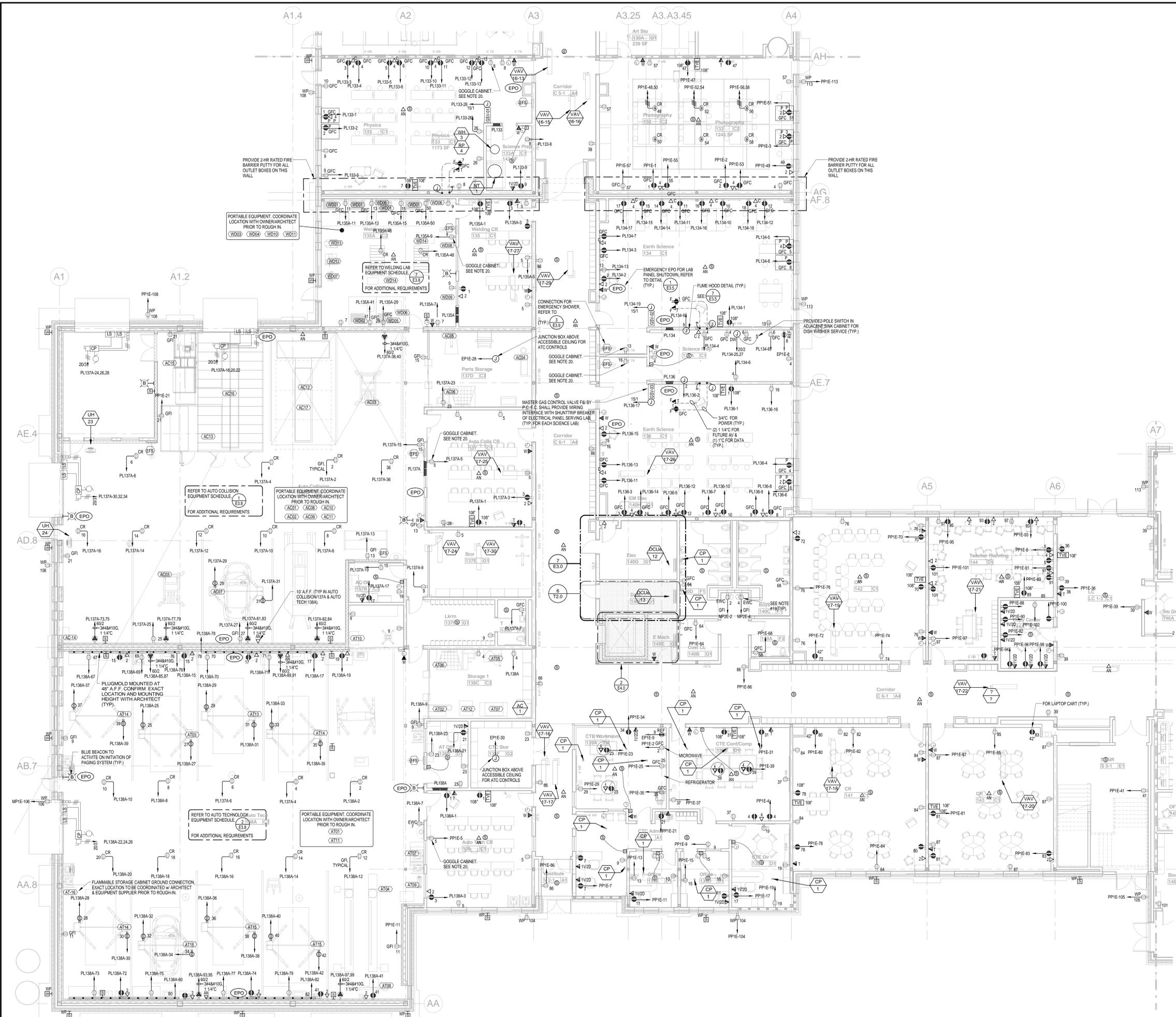
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1 FIRST FLOOR PLAN PART D - POWER  
SCALE: 1/8" = 1'-0"

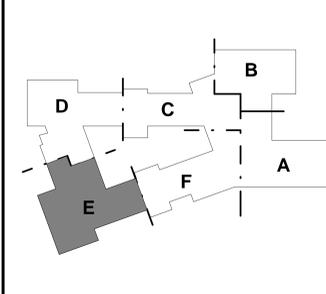


GENERAL POWER NOTES:

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THIN WALL INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACKWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 398 EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- PROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL DATA SECURITY AND SOUND SYSTEM WIRING. TEL DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR ADDITIONAL SYSTEMS SECTION 214100 DEVICES AS SHOWN ON ALL DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL LOGIC SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



KEYPLAN



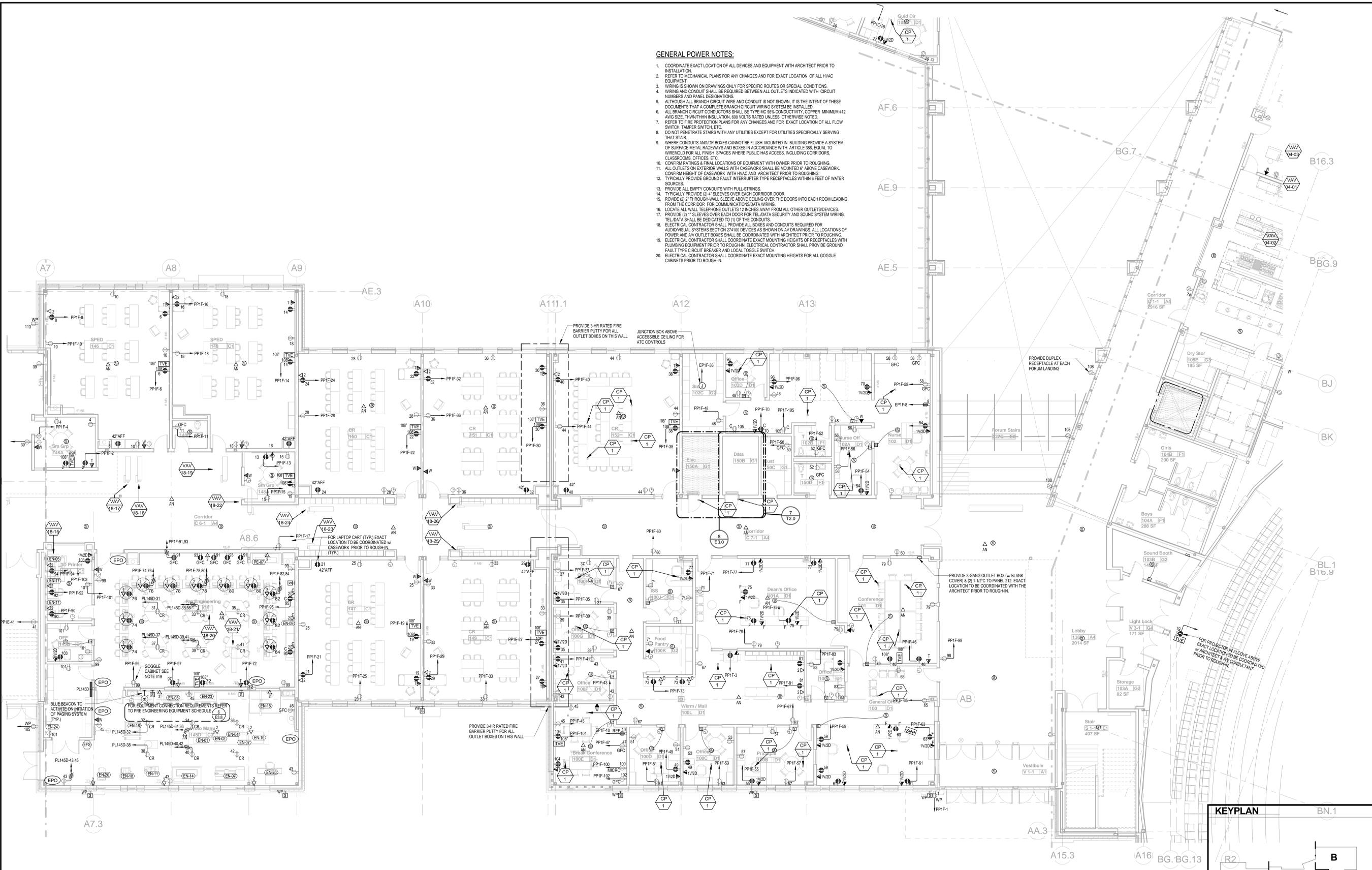
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1 FIRST FLOOR PLAN PART E - POWER  
SCALE: 1/8" = 1'-0"

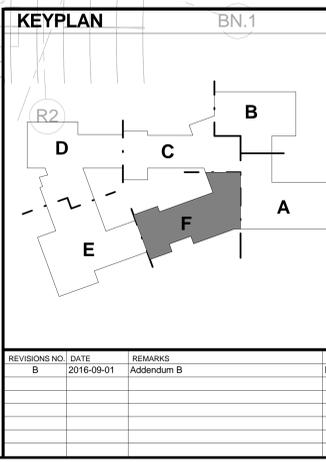


GENERAL POWER NOTES:

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THIN WALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WIRING FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK, CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 1/2" SLEEVES OVER EACH CORRIDOR DOOR.
- ROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING.
- TEL, DATA SHALL BE DEDICATED TO IT'S OWN CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGHING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOGGLE CABINETS PRIOR TO ROUGHING.



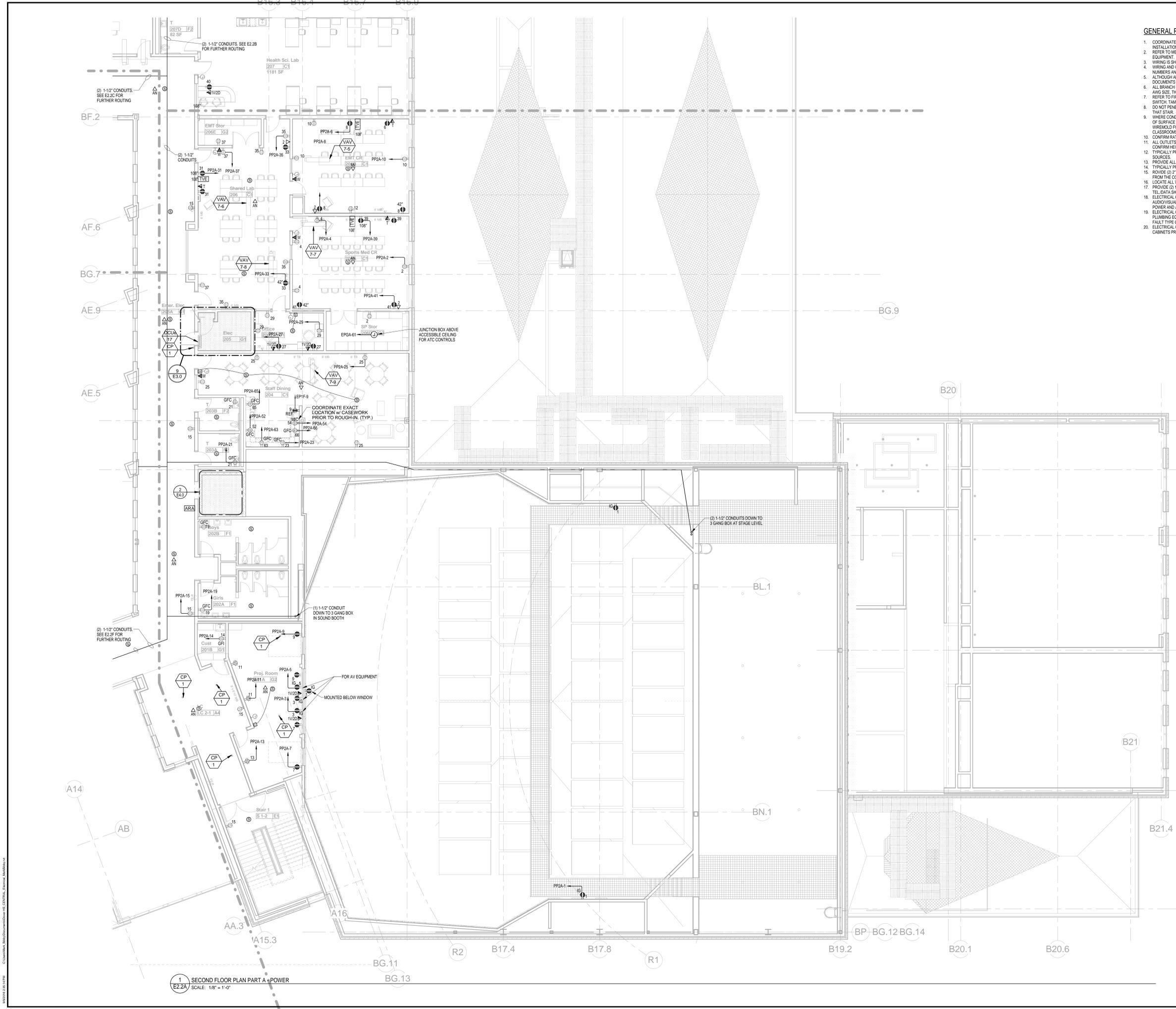
1 FIRST FLOOR PLAN PART F - POWER  
E2.1F SCALE: 1/8" = 1'-0"



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**GENERAL POWER NOTES:**

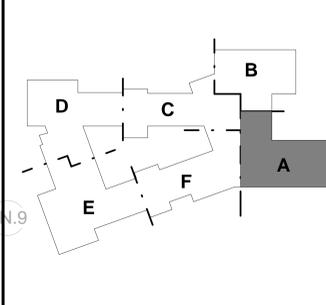
- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPERS SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 308, EQUAL TO WIREBOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK, CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) #4 SLEEVES OVER EACH CORRIDOR DOOR.
- REMOVE (2) 7" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL/DATA SECURITY AND SOUND SYSTEM WIRING. TEL/DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 27400 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND ALL OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKERS AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



100% CONFORMED SET - FOR CONSTRUCTION  
9/12/16



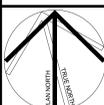
**KEYPLAN**



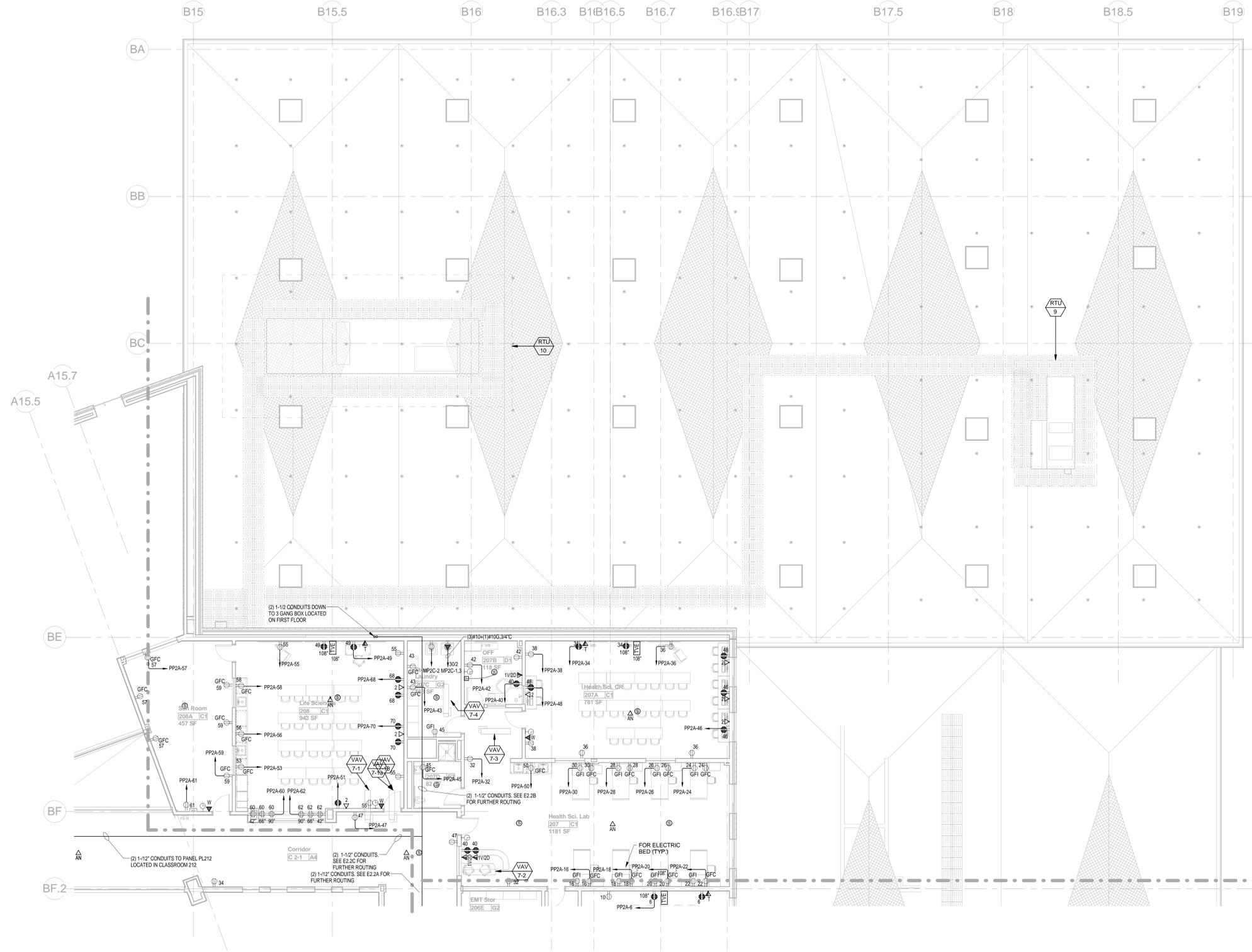
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Dover HS / CTC  
Dover, NH  
**SECOND FLOOR PLAN PART A - POWER**  
SCALE: As Indicated  
DRAWN BY: MB  
CHECKED BY: DMP  
DRAWING NUMBER  
**E2.2A**  
JOB NUMBER 40114

1 SECOND FLOOR PLAN PART A - POWER  
SCALE: 1/8" = 1'-0"



- GENERAL POWER NOTES:**
- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
  - REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
  - WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
  - WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
  - ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINWALL INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
  - DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
  - WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 398 EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
  - CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
  - ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 8" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
  - PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
  - TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
  - ROUNDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
  - LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
  - PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL, DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON ALL DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



**1** SECOND FLOOR PLAN PART B - POWER  
E2.2B SCALE: 1/8" = 1'-0"

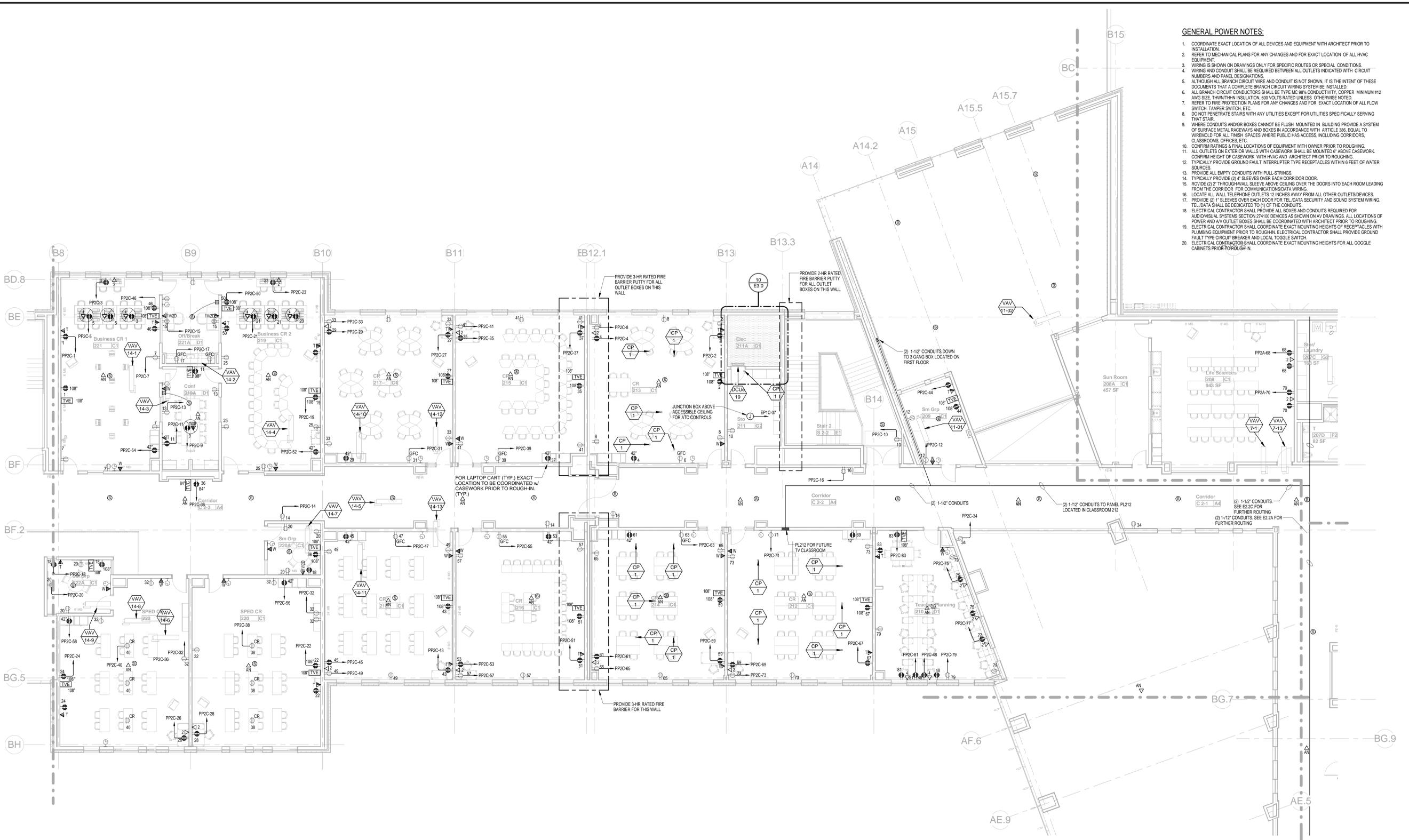
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**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 90% CONDUCTIVITY, COPPER, MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 906, EQUAL TO WIRING FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS AND FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 4" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE 2" SLEEVES OVER EACH CORRIDOR DOOR.
- PROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL, DATA SECURITY AND SOUND SYSTEM WIRING. TEL/DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



1 SECOND FLOOR PLAN PART C - POWER  
E2.2C  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

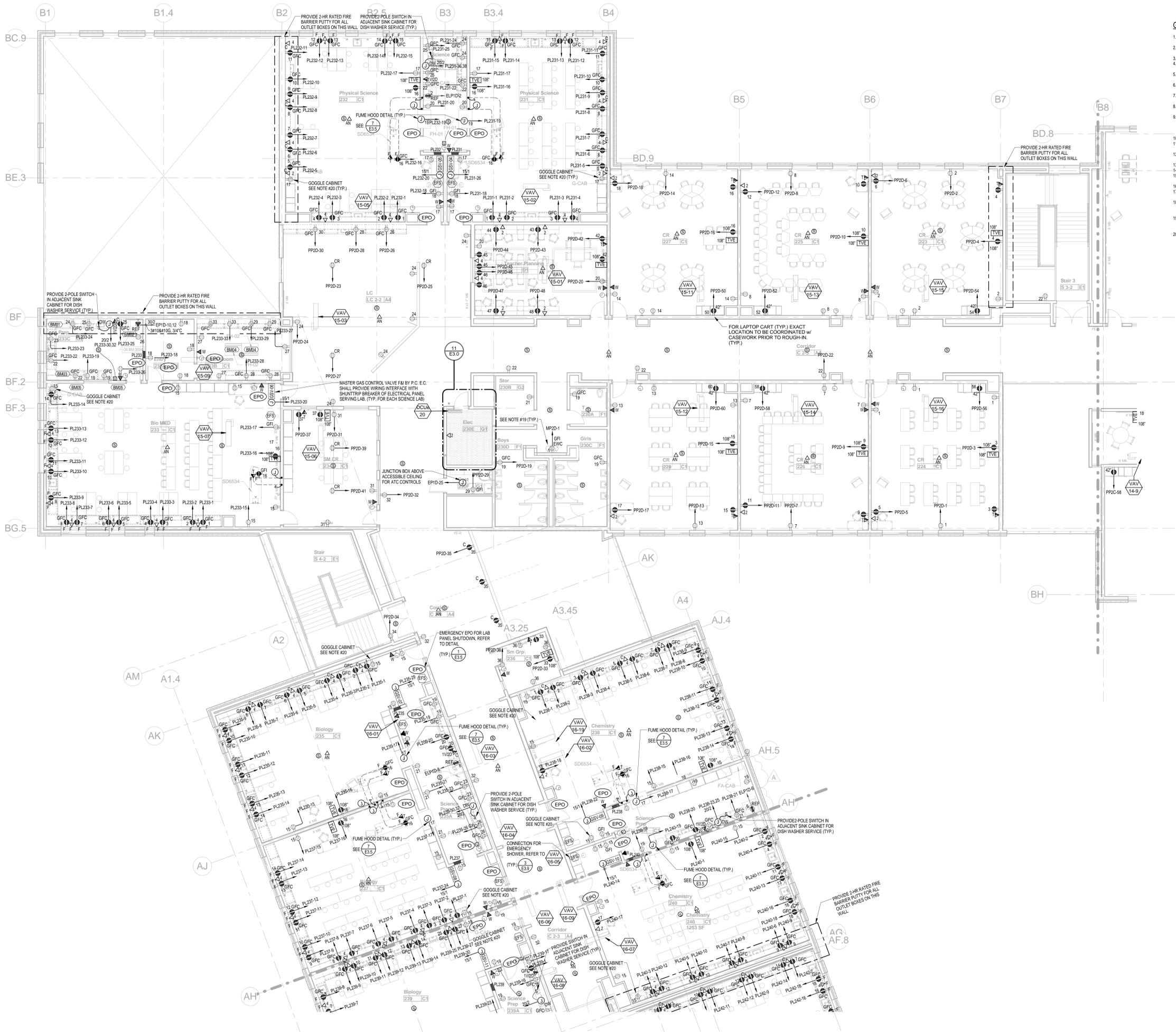
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Drawing Number: **E2.2C**

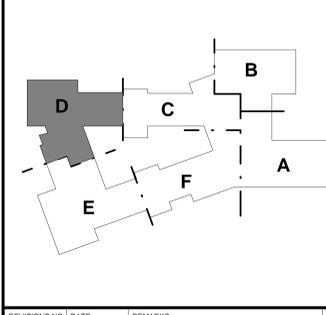


GENERAL POWER NOTES:

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SEE "WIRING IN INSULATION 800 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACKWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 308, EQUAL TO WREMOULD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- REMOVE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL DATA SECURITY AND SOUND SYSTEM WIRING. TEL DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON ANY DRAWINGS. ALL LOCATIONS OF POWER AND ANY OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



KEYPLAN



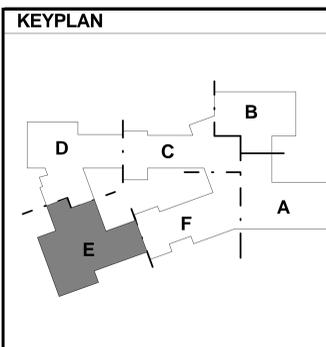
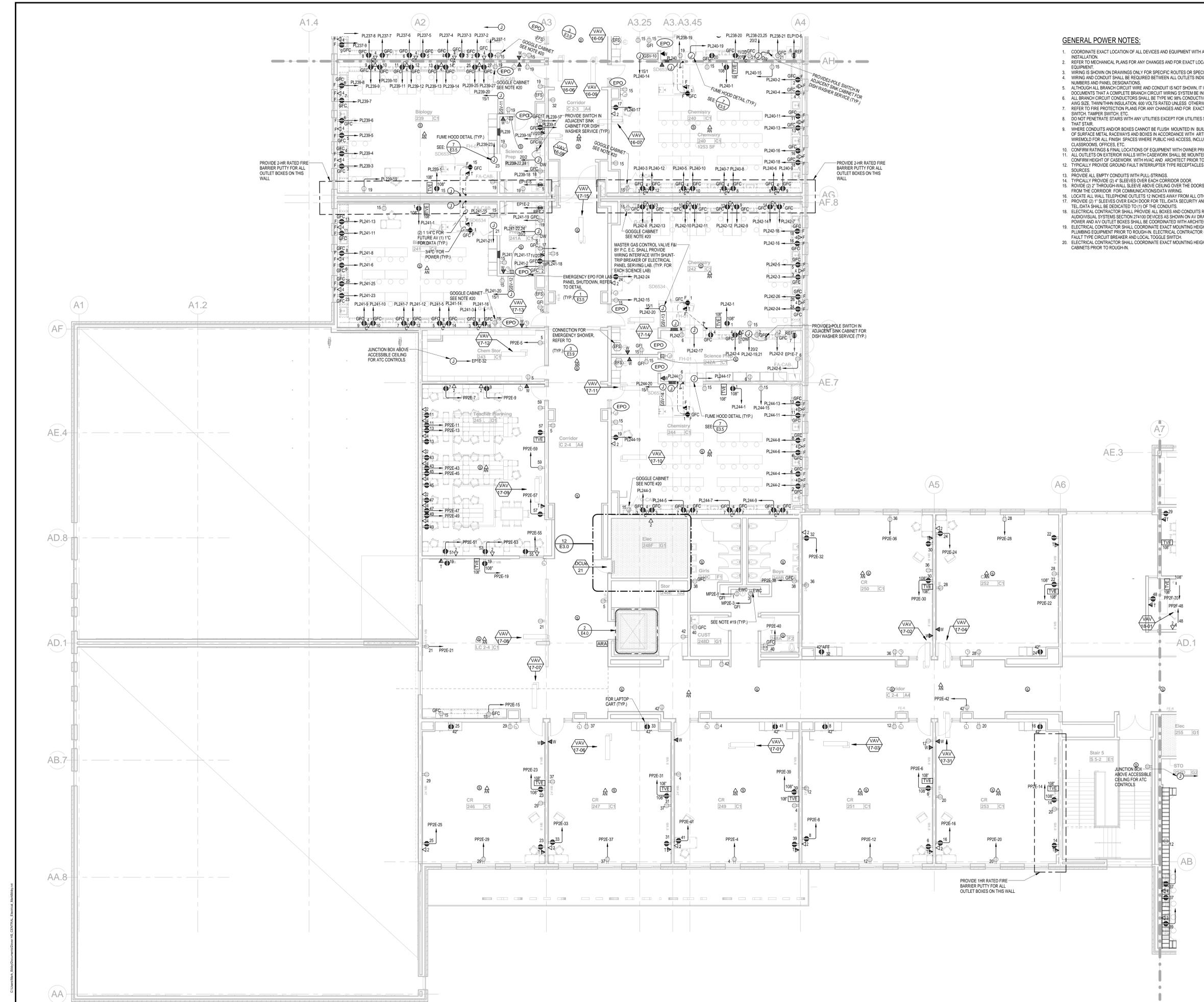
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1 SECOND FLOOR PLAN PART D - POWER  
SCALE: 1/8" = 1'-0"



GENERAL POWER NOTES:

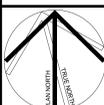
- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 90% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINWALL INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 388, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- ROUTE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL DATA SECURITY AND SOUND SYSTEM WIRING. TEL DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGHING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGHING.



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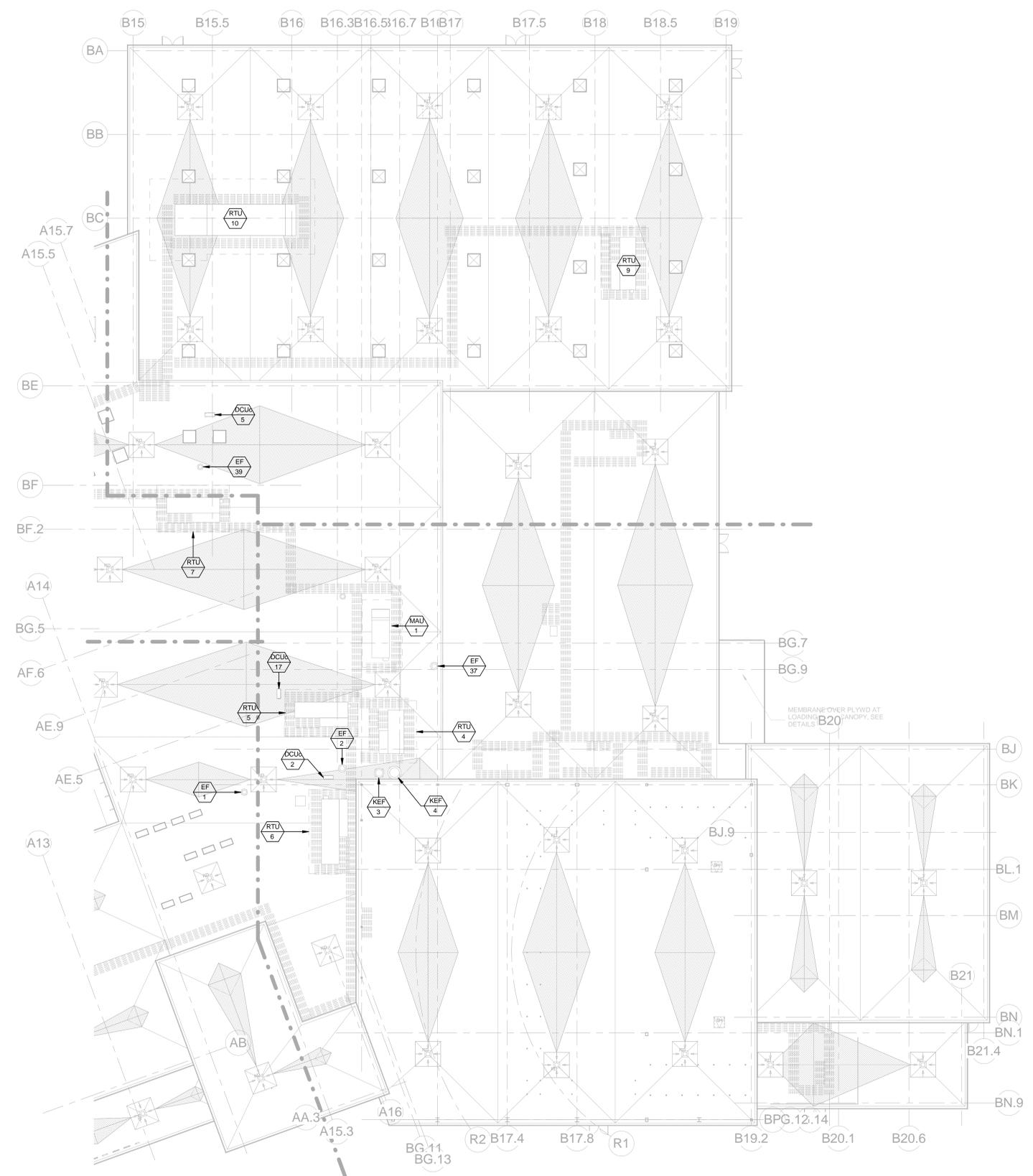
1 SECOND FLOOR PLAN PART E - POWER  
SCALE: 1/8" = 1'-0"





**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY, COPPER, MINIMUM #12 AWG SIZE, THRU/THIN INSULATION, 90V VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO THE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 306, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- ROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL/DATA SECURITY AND SOUND SYSTEM WIRING. TEL/DATA SHALL BE DESIGNATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 27100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOGGLE CABINETS PRIOR TO ROUGH-IN.



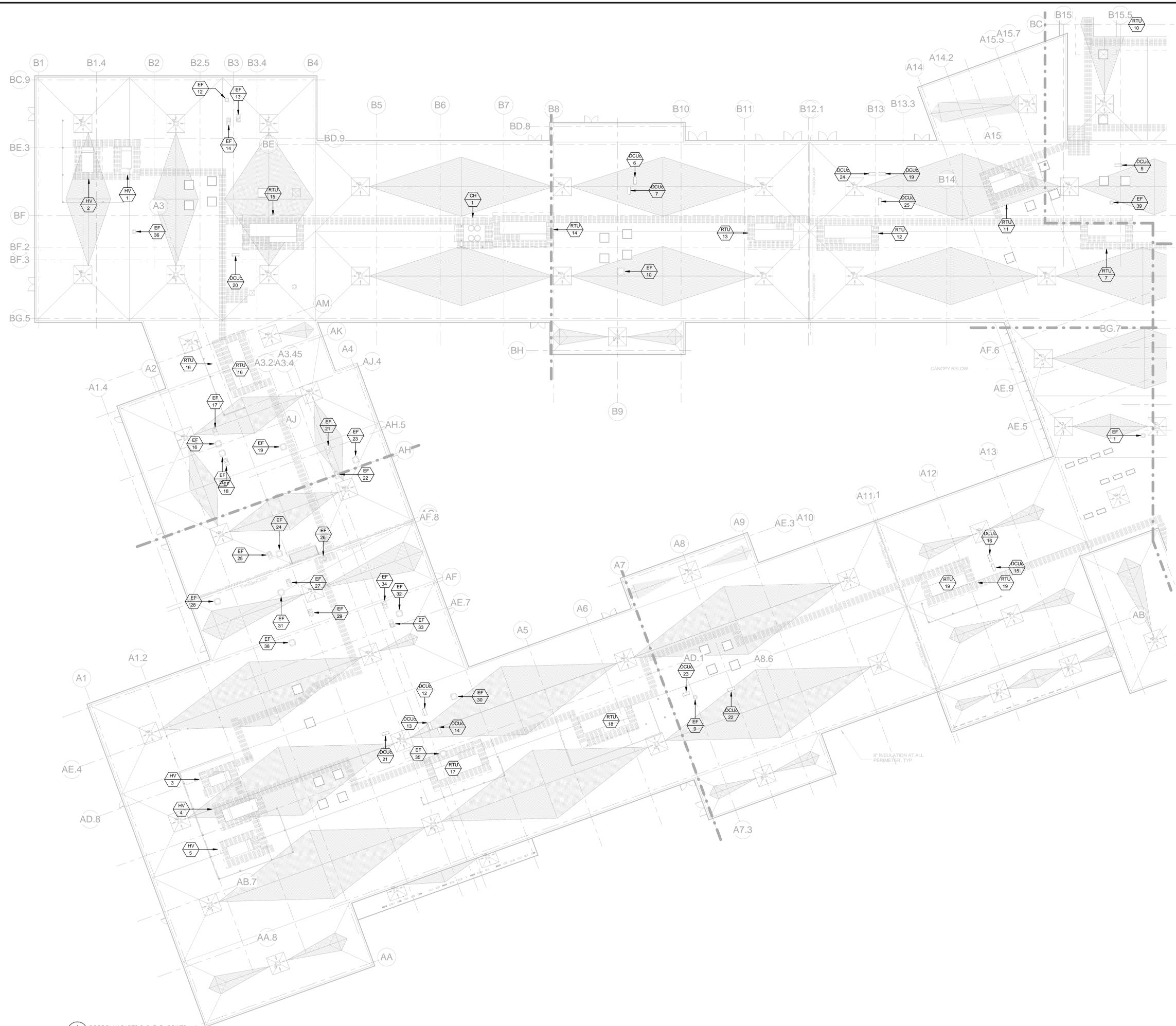
1 ROOF PLAN PARTS A,B - POWER  
E2.3 SCALE: 1/16" = 1'-0"

**KEYPLAN**

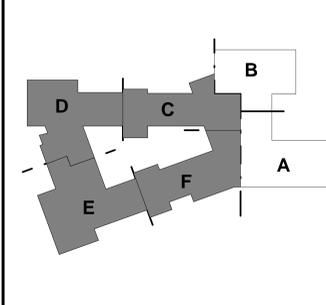
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- GENERAL POWER NOTES:**
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  - ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE THINNYHH INSULATION 600 VOLTS RATED UNLESS OTHERWISE NOTED.
  - REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH TAMPER SWITCH, ETC.
  - DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
  - WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 386, EQUAL TO WIREMOLD FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
  - CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
  - ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 6" ABOVE CASEWORK. CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
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  - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIO VISUAL SYSTEMS SECTION 27.100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
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  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOGGLE CABINETS PRIOR TO ROUGHING.

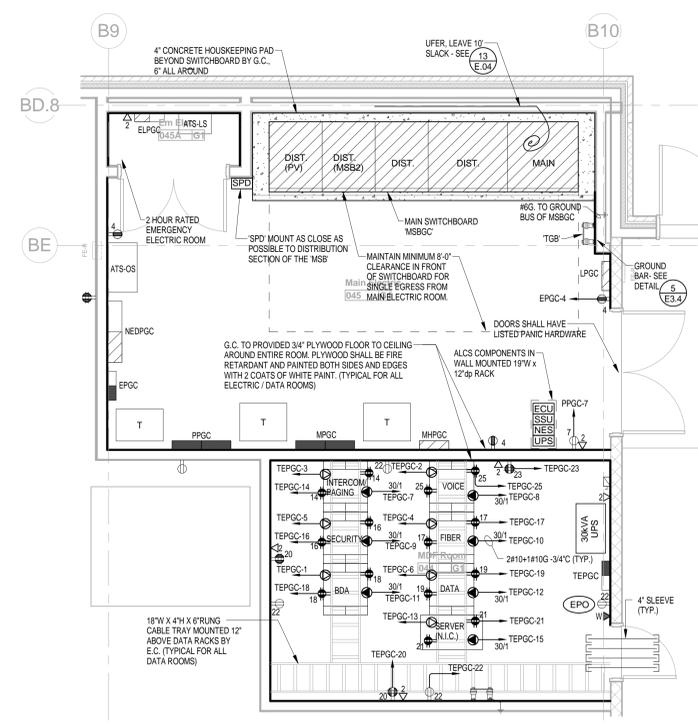


**KEYPLAN**

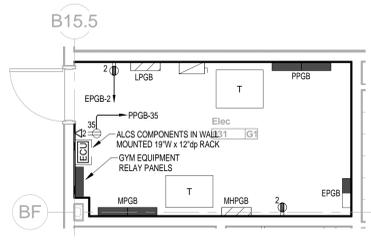


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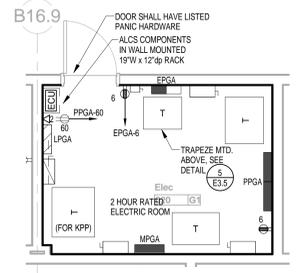
**1 ROOF PLAN PARTS C, D, E, F - POWER**  
SCALE: 1/16" = 1'-0"



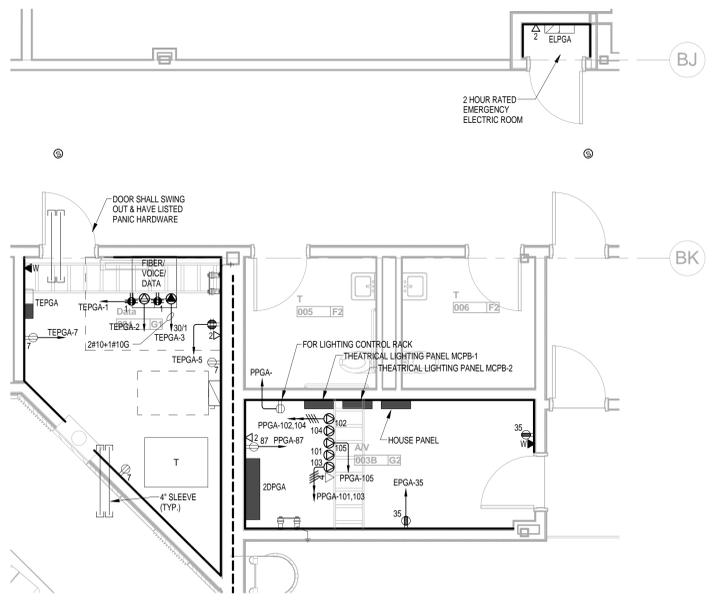
1 GROUND FLOOR PART C - MAIN ELECTRIC 044, EM ELEC 044A & MDF ROOM 043 - POWER  
E3.0 SCALE: 1/4" = 1'-0"



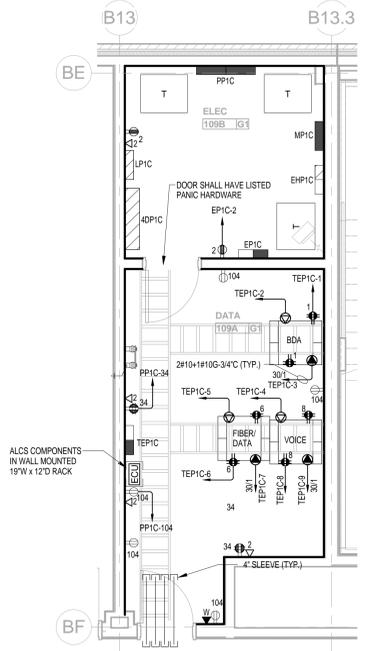
2 GROUND FLOOR PART B - ELEC 031 - POWER  
E3.0 SCALE: 1/4" = 1'-0"



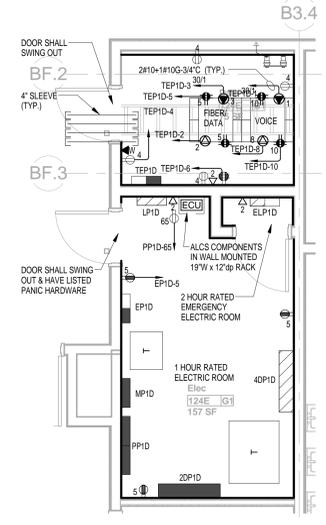
3 GROUND FLOOR PART A - ELEC 020 - POWER  
E3.0 SCALE: 1/4" = 1'-0"



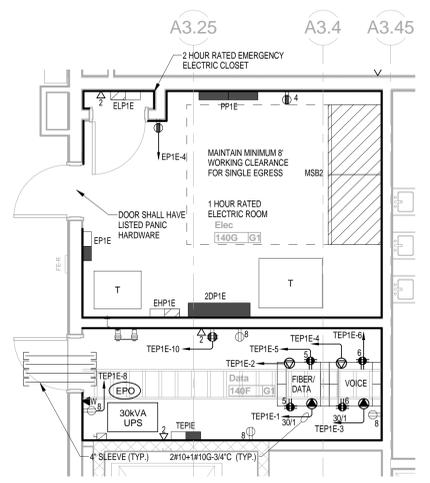
4 GROUND FLOOR PART A - EM ELEC 015, AV 003B & DATA 004 - POWER  
E3.0 SCALE: 1/4" = 1'-0"



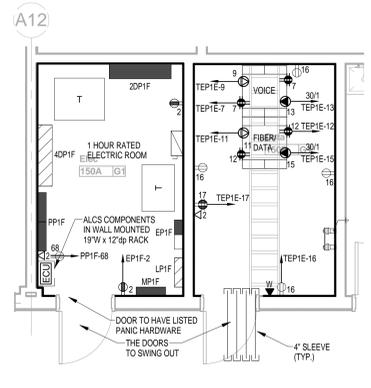
5 FIRST FLOOR PART C - ELEC 109B & DATA 109A - POWER  
E3.0 SCALE: 1/4" = 1'-0"



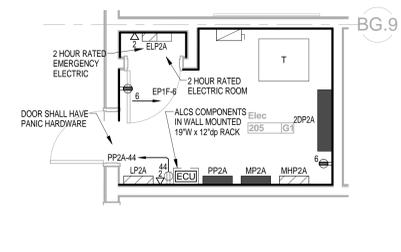
6 FIRST FLOOR PART D - ELEC 124E & DATA 124F - POWER  
E3.0 SCALE: 1/4" = 1'-0"



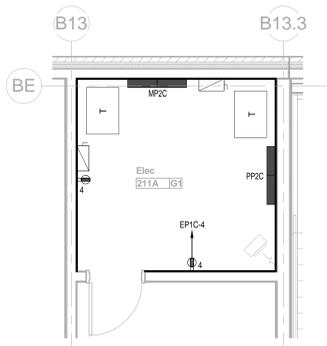
7 FIRST FLOOR PART E - ELECTRIC 140G, EM ELEC 140H & DATA 140F - POWER  
E3.0 SCALE: 1/4" = 1'-0"



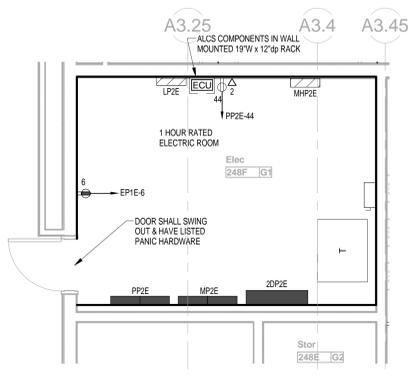
8 FIRST FLOOR PART F - ELEC 150A & DATA 150B - POWER  
E3.0 SCALE: 1/4" = 1'-0"



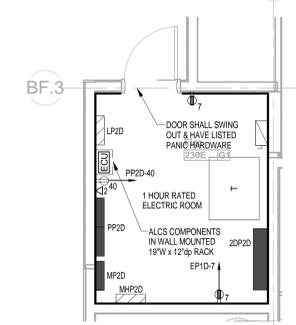
9 SECOND FLOOR PART A - ELEC 205 & EM ELEC 205A - POWER  
E3.0 SCALE: 1/4" = 1'-0"



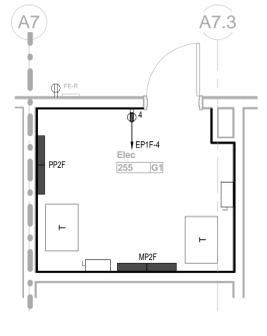
10 SECOND FLOOR PART C - ELEC 211A - POWER  
E3.0 SCALE: 1/4" = 1'-0"



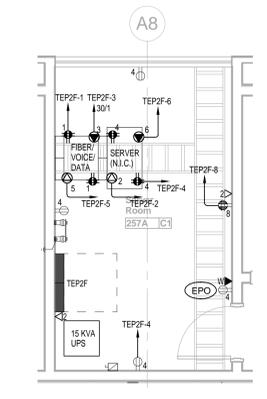
12 SECOND FLOOR PART E - ELEC 248F - POWER  
E3.0 SCALE: 1/4" = 1'-0"



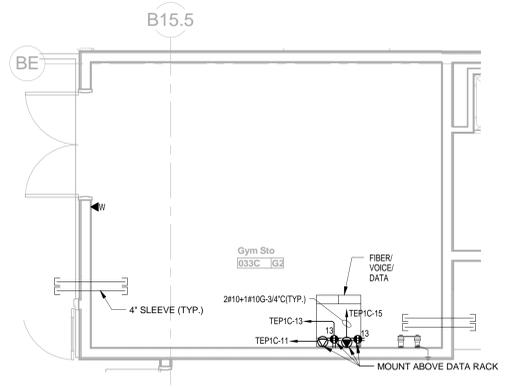
11 SECOND FLOOR PART D - ELEC 230E - POWER  
E3.0 SCALE: 1/4" = 1'-0"



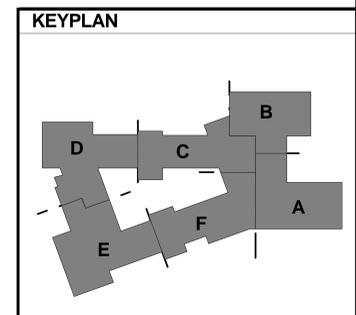
13 SECOND FLOOR PART F - ELEC 255 - POWER  
E3.0 SCALE: 1/4" = 1'-0"



14 SECOND FLOOR PART F - SERVER ROOM 257A - POWER  
E3.0 SCALE: 1/4" = 1'-0"



16 GROUND FLOOR PART B - GYM STO 033C (IDF) - POWER  
E3.0 SCALE: 1/4" = 1'-0"



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E3.0

JOB NUMBER 403114



277/480V, 3 PHASE, 4W, 65 KAIC FRONT ACCESSIBLE  
5000A BUS

**MAIN SWITCHBOARD "MSBGC" SCHEDULE ④**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
-	FULLY BUSSED PULL SECTION	-	-	-
-	4000 MAIN BREAKER	SEE RISER	-	100% RATED WITH GFI PROTECTION
1	60 100 SURGE PROTECTION DEVICE (SPD)	4#6&1#6G	1 1/4"	PER MFGGR. REQUIREMENTS
2	200 225 SPARE	-	-	-
3	300 400 2DPGA VIA T-8	②	②	-
4	100 100 LPG8	4#2&#8G	1 1/2"	-
5	90 100 PPG8 VIA T-5	②	②	-
6	400 400 MHPGB	4#500KCMIL#3G	4"	-
7	100 100 LPG4	4#2&#8G	1 1/2"	-
8	150 225 PPGA VIA T-6	②	②	-
9	90 100 MPGA VIA T-5	②	②	-
10	200 400 KPPGA VIA T-7	②	②	-
11	400 400 SPARE	-	-	-
12	800 800 4DP1C	2 SETS 4#500KCMIL#3G	(2) 4"	-
13	800 800 4DP1F	2 SETS 4#500KCMIL#3G	(2) 4"	-
14	600 600 ATS-OS	2 SETS 4#350KCMIL#1G	(2) 3"	-
15	150 225 ATS-LS	4#1/0&#6G	2"	-
16	100 100 LPGC	4#2&#8G	1 1/2"	-
17	60 100 MPGC VIA T-4	②	②	-
18	90 100 PPGC VIA T-5	②	②	-
19	100 100 SPARE	-	-	-
20	100 100 ELEVATOR "E"	3#2&#8G	1 1/2"	-
21	200 225 MHPGC	4#3/0&#6G	2"	-
22	400 400 SPARE	-	-	-
23	200 225 SPARE	-	-	-
24	400 400 SPARE	-	-	-
25	200 225 SPARE	-	-	-
26	100 100 SPARE	-	-	-
27	100 100 SPARE	-	-	-
28	-	225 SPACE PROVISIONS	-	-
29	1600 1600 MSB2	4 SETS 4#600KCMIL#4/0G	(4) 4"	-
30	1200 1200 FUTURE PV SYSTEM	-	(3) 4"	FUTURE PHOTOVOLTAICS
31	-	-	-	-
32	-	-	-	-

① UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE  
③ PROVIDE CURRENT LIMITING BREAKER.  
④ PROVIDE ENERGY-REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR FOR ARC ENERGY REDUCTION.  
⑤ GFI BREAKER.

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④ PROVIDE ENERGY-REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR FOR ARC ENERGY REDUCTION.  
⑤ GFI BREAKER.

600A MLO, 277/480V, 3 PHASE, 4W, 65 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL NEDPGC SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	225 225 EHP1E	4#4/0&1#4G	2 1/2"	-
2	150 225 EHP1C	4#1/0&1#6G	2"	-
3	100 100 ELEVATOR "A"	3#2&#8G	1 1/2"	-
4	90 100 EPGA VIA T-5	②	②	-
5	60 100 EP1F VIA T-4	②	②	-
6	90 100 EPGC VIA T-5	②	②	-
7	70 100 P-1 @ 20 HP	4#3&1#6G	1 1/4"	-
8	70 100 P-2 @ 20 HP	4#3&1#6G	1 1/4"	-
9	60 100 EPID VIA T-4	②	②	-
10	100 100 SPARE	-	-	-
11	60 100 SPARE	-	-	-
12	-	225 SPACE PROVISIONS	-	-
13	-	100 SPACE PROVISIONS	-	-

① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

1600A MAIN BREAKER, 277/480V, 3 PHASE, 4W, 65 KAIC LOCATION: ELECTRICAL ROOM

**SWITCHBOARD MSB2 SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	600 800 2DP1E VIA T-10	②	②	-
2	100 100 LP2E	4#2&#8G	1 1/2"	-
3	400 400 MHP2E	4#500KCMIL#3G	4"	-
4	300 400 2DP2E VIA T-8	②	②	-
5	800 800 4DP1D	2 SETS 4#500KCMIL#1/0G	(2) 4"	-
6	150 225 RTU-17	3#1/0&1#6G	2"	-
7	150 225 RTU-18	3#1/0&1#6G	2"	-
8	100 100 SPARE	-	-	-
9	150 225 SPARE	-	-	-
10	-	225 SPACE PROVISIONS	-	-
11	-	400 SPACE PROVISIONS	-	-

① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

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② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

800A MLO, 277/480V, 3 PHASE, 4W, 65 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 4DP1C SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	100 100 LP1C	4#2&#8G	1 1/2"	-
2	60 100 MP1C VIA T-4	②	②	-
3	60 100 MP2C VIA T-4	②	②	-
4	90 100 PP2C VIA T-5	②	②	-
5	150 225 PP1C VIA T-6	②	②	-
6	70 100 RTU-7	3#4 + 1#8G	1"	-
7	80 100 RTU-8	3#3 + 1#8G	1 1/4"	-
8	60 100 RTU-9	3#6 + 1#10G	1"	-
9	200 225 RTU-10	3#3/0 + 1#6G	2"	-
10	40 100 RTU-11	3#8 + 1#10G	3/4"	-
11	110 225 RTU-12	3#1 + 1#6G	1 1/2"	-
12	50 100 RTU-13	3#6 + 1#10G	1"	-
13	150 225 RTU-14	3#1/0 + 1#6G	2"	-
14	200 225 SPARE	-	-	-
15	100 100 SPARE	-	-	-
16	-	100 SPACE PROVISIONS	-	-
17	-	225 SPACE PROVISIONS	-	-
18	-	400 SPACE PROVISIONS	-	-
19	-	-	-	-

① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.

- ① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.

800A MLO, 277/480V, 3 PHASE, 4W, 65 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 4DP1D SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	200 225 MHP2D	4#3/0&#6G	2"	-
2	100 100 LP2D	4#2&#8G	1 1/2"	-
3	300 400 2DP2D VIA T-8	②	②	-
4	100 100 LP1D	4#2&#8G	1 1/2"	-
5	400 400 2DP1D VIA T-9	②	②	-
6	150 225 RTU-15	3#1/0&1#6G	2"	-
7	110 225 RTU-16	3#1&1#6G	1 1/2"	-
8	125 225 CH-1	3#1&1#6G	1 1/2"	-
9	90 100 DUST COLLECTOR (DC-1)	4#3&1#6G	1 1/2"	-
10	150 225 SPARE	-	-	-
11	100 100 SPARE	-	-	-
12	-	100 SPACE PROVISIONS	-	-
13	-	225 SPACE PROVISIONS	-	-

① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.

- ① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.

800A MLO, 277/480V, 3 PHASE, 4W, 65 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 4DP1F SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	100 100 LP1F	4#2&#8G	1 1/2"	-
2	100 100 LP2A	4#2&#8G	1 1/2"	-
3	60 100 MP2F VIA T-4	②	②	-
4	90 100 PP2F VIA T-5	②	②	-
5	300 400 2DP2A VIA T-8	②	②	-
6	200 225 2DP1F VIA T-7	②	②	-
7	150 225 PP2C VIA T-6	②	②	-
8	150 225 PP1C VIA T-6	②	②	-
9	60 100 RTU-1	3#6&1#10G	1"	-
10	90 100 RTU-5	3#3&1#6G	1 1/4"	-
11	110 225 RTU-6	3#1&1#6G	1 1/2"	-
12	80 100 RTU-19	3#3&1#6G	1 1/4"	-
13	400 400 MHP2A	4#500KCMIL#3G	4"	-
14	100 100 SPARE	-	-	-
15	-	100 SPACE PROVISIONS	-	-
16	-	225 SPACE PROVISIONS	-	-

① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 22,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ① PROVIDE CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 22,000A RMS @ RATED VOLTAGE WITH DOWNSTREAM BREAKERS IS ACCEPTABLE.  
② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

500A MCB, 120/208V, 3 PHASE, 4W, 22 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 2DPGA SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	500 600 MAIN BREAKER	②	②	-
2	400 400 HOUSE PANEL	5#500KCMIL#3G	4"	DIMMER RACK
3	100 100 DIMMING PANEL MCBP-1	3#2&#1/0N&#6G	2"	-
4	100 100 DIMMING PANEL MCBP-2	3#2&#1/0N&#6G	2"	-
5	150 225 SPARE	-	-	-
6	100 100 SPARE	-	-	-
7	-	100 SPACE PROVISIONS	-	-
8	-	225 SPACE PROVISIONS	-	-

② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

800A MCB, 120/208V, 3 PHASE, 4W, 22 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 2DP1D SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	800 800 MAIN BREAKER	②	②	-
2	200 225 PP1D	5#3/0&#4G	2 1/2"	-
3	200 225 MP1D	4#3/0&#6G	2"	-
4	150 225 PL116	4#1/0&#6G	2"	-
5	200 225 PL125C	4#3/0&#6G	2"	-
6	200 225 PL126C	4#3/0&#6G	2"	-
7	100 100 PL127	4#2&#8G	1 1/2"	-
8	150 225 SPARE	-	-	-
9	100 100 SPARE	-	-	-
10	-	100 SPACE PROVISIONS	-	-
11	-	225 SPACE PROVISIONS	-	-

② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

1000A MCB, 120/208V, 3 PHASE, 4W, 22 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 2DP1E SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	1000 1000 MAIN BREAKER	②	②	-
2	200 225 PP1E	5#3/0&#4G	2 1/2"	-
3	100 100 PL133	4#2&#8G	1 1/2"	-
4	100 100 PL134	4#2&#8G	1 1/2"	-
5	600 800 PL135A	2 SETS 4#350KCMIL#1/0G	(2) 3"	-
6	100 100 PL136	4#2&#8G	1 1/2"	-
7	400 400 PL137A	4#500KCMIL#3G	4"	-
8	400 400 PL138A	4#500KCMIL#3G	4"	-
9	200 225 SPARE	-	-	-
10	100 100 SPARE	-	-	-
11	-	100 SPACE PROVISIONS	-	-
12	-	225 SPACE PROVISIONS	-	-

② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

400A MCB, 120/208V, 3 PHASE, 4W, 22 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 2DP1F SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	400 400 MAIN BREAKER	②	②	-
2	200 225 PP1F	5#3/0&#4G	2 1/2"	-
3	100 100 MP1F	4#2&#8G	1 1/2"	-
4	200 225 PL145D	4#3/0&#6G	2"	-
5	150 225 SPARE	-	-	-
6	100 100 SPARE	-	-	-
7	-	100 SPACE PROVISIONS	-	-
8	-	225 SPACE PROVISIONS	-	-

② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

- ② SEE TRANSFORMER SCHEDULE FOR WIRE AND CONDUIT SIZE

500A MCB, 120/208V, 3 PHASE, 4W, 22 KAIC LOCATION: ELECTRICAL ROOM

**DISTRIBUTION PANEL 2DP2A SCHEDULE**

OVER CURRENT DEVICES	CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
No. TRIP FRAME				
1	500 600 MAIN BREAKER	②	②	-
2	400 400 KPP1A	4#500KCMIL#3G	4"	-
3	100 100 MP2A	4#2&#8G	1 1/2"	-
4	200 225 PP2A	5#3/0&#4G	2 1/2"	-
5	150 225 PL106B	4#1/0&#6G	2"	-
6	100 100 SPARE	-	-	-

THREE PHASE TRANSFORMER SCHEDULE (K13 RATED) COPPER CONDUCTORS												
ID NO	KVA	PRIMARY 480 VOLT					SECONDARY 208 VOLT					GROUNDING ELECTRODE CONDUCTOR (250-66)*
		AMPS	WIRE (THHN)	COND.	C.B.	FUSE	AMPS	WIRE (THHN)	COND.	C.B.	FUSE	
T-1	3	3.6	3#12#12EG	1/2"	15/3	10	8.3	4#12#12(EG)	1/2"	15/3	15	#8
T-2	9	10.8	3#12#12EG	1/2"	20/3	20	25	4#10#10(EG)	3/4"	30/3	30	#8
T-3	15	18	3#10#10EG	1/2"	30/3	30	41.6	3#6(PH)+2#1(N)+1#6(IG)+1#8(EG)	1 1/2"	50/3	50	#8
T-4	30	36	3#6#10EG	3/4"	60/3	45	83.3	3#2(PH)+#3(O)(N)+1#2(O)(G)+1#8(EG)	2"	100/3	100	#8
T-5	45	54.3	3#2#8EG	1 1/4"	90/3	80	125	3#10(PH)+2#1(O)(N)+1#1(O)(G)+1#8(EG)	3"	150/3	150	#6
T-6	75	90.2	3#10#6EG	1 1/2"	150/3	150	208	3#250 KCML(PH)+2#250 KCML(N)+1#250 KCML(IG)+1#4(EG)	4"	250/3	250	#2
T-7	112.5	135.3	3#30#6EG	2"	200/3	200	311	3#600 KCML(PH)+2#600 KCML(N)+1#3(O)(G)+1#3(EG)	4"	400/3	400	#1/0
T-8	150	180.6	3#350#4EG	3"	300/3	300	416.8	2 SETS 3#250 KCML(PH)+2#250 KCML(N)+1#250 KCML(IG)+1#2(EG)	2 - 3"	500/3	500	#2/0
T-9	225	270.7	3#500#3EG	3"	400/3	400	625	2 SETS 3#900 KCML(PH)+2#900 KCML(N)+1#1(O)(G)+1#1(O)(EG)	2 - 4"	800/3	800	#2/0
T-10	300	360.8	2 SETS 3#350#1EG	2-3"	600/3	600	833	3 SETS 3#400 KCML(PH)+2#400 KCML(N)+1#400 KCML(IG)+1#2(O)(EG)	3 - 3"	1000/3	1000	#3/0

\* RUN IN CODE SIZE CONDUIT TO CODE APPROVED GROUNDING ELECTRODE, I.E. BUILDING STEEL, ETC. "EG" INDICATES EQUIPMENT GROUNDING CONDUCTOR, "IG" INDICATES ISOLATED GROUNDING CONDUCTOR, "N" INDICATES NEUTRAL CONDUCTOR AND "PH" INDICATES PHASE CONDUCTOR.

THREE PHASE TRANSFORMER SCHEDULE (K1 RATED) COPPER CONDUCTORS												
ID NO	KVA	PRIMARY 480 VOLT					SECONDARY 208 VOLT					GROUNDING ELECTRODE CONDUCTOR (250-66)*
		AMPS	WIRE (THHN)	COND.	C.B.	FUSE	AMPS	WIRE (THHN)	COND.	C.B.	FUSE	
T-1	3	3.6	3#12#12EG	1/2"	15/3	10	8.3	4#12#12(EG)	1/2"	15/3	15	#8
T-2	9	10.8	3#12#12EG	1/2"	20/3	20	25	4#10#10(EG)	3/4"	30/3	30	#8
T-3	15	18	3#10#10EG	1/2"	30/3	30	41.6	4#6+2#10(EG)	1 1/2"	50/3	50	#8
T-4	30	36	3#6#10EG	3/4"	60/3	45	83.3	4#2+2#8(EG)	2"	100/3	100	#8
T-5	45	54.3	3#2#8EG	1 1/4"	90/3	80	125	4#1(O)+2#8(EG)	3"	150/3	150	#6
T-6	75	90.2	3#10#6EG	1 1/2"	150/3	150	208	4#250KCML+4(EG)	4"	250/3	250	#2
T-7	112.5	135.3	3#30#6EG	2"	200/3	200	311	4#600KCML+3(EG)	4"	400/3	400	#1/0
T-8	150	180.6	3#350KCMIL+4EG	3"	300/3	300	416.8	2 SETS 4#250KCML+4(EG)	2 - 3"	500/3	500	#2/0
T-9	225	270.7	3#500KCMIL+3EG	3"	400/3	400	625	2 SETS 4#600KCMIL+1(O)(EG)	2 - 4"	800/3	800	#3/0
T-10	300	360.8	2 SETS 3#350KCMIL+1EG	2-3"	600/3	600	833	3 SETS 4#400KCMIL+2(O)(EG)	3 - 3"	1000/3	1000	#3/0

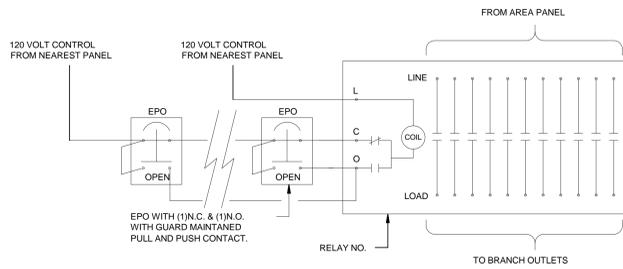
\* RUN IN CODE SIZE CONDUIT TO CODE APPROVED GROUNDING ELECTRODE, I.E. BUILDING STEEL, ETC. "EG" INDICATES EQUIPMENT GROUNDING CONDUCTOR, "IG" INDICATES ISOLATED GROUNDING CONDUCTOR, "N" INDICATES NEUTRAL CONDUCTOR AND "PH" INDICATES PHASE CONDUCTOR.

277/480V, 3 PHASE, 4W, 65 KAIC														
PANEL NO.	LOCATION	MTG	MAIN BUS AMPS	MAIN CB	BRANCH CKT BREAKER (AMPS)						TOTAL POLES	OTHERS		
					1 POLE		2 POLE		3 POLE					
					15	20	30	15	20	30			60	
1	ELPGA	EMERGENCY ELEC. RM.	S	100	-	-	30	-	-	-	-	-	42	-
1	ELPGC	EMERGENCY ELEC. RM.	S	225	-	-	20	-	-	-	-	-	30	(4) 100A/3P
1	ELP1D	EMERGENCY ELEC. RM.	S	100	-	-	24	-	-	-	-	-	30	-
1	ELP1E	EMERGENCY ELEC. RM.	S	100	-	-	24	-	-	-	-	-	30	-
1	ELP2A	EMERGENCY ELEC. RM.	S	100	-	-	30	-	-	-	-	-	42	-
1	EHP1C	ELECTRIC ROOM	S	225	-	-	3	-	-	-	1	1	42	(1) 60/3
1	EHP1E	ELECTRIC ROOM	S	400	-	-	3	-	-	-	1	1	42	(1) 150/3
1	LPGA	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LPGC	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP1C	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP1D	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP1F	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP2A	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP2D	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	LP2E	ELECTRIC ROOM	S	100	-	-	20	-	-	-	-	-	30	-
1	MHPGB	ELECTRIC ROOM	S	400	-	-	3	-	-	-	1	1	42	(1) 90/3, (2) 80/3
1	MHPGC	ELECTRIC ROOM	S	225	-	-	3	-	-	-	3	3	42	(2) 40/3
1	MHP2A	ELECTRIC ROOM	S	400	-	-	3	-	-	-	5	1	42	(2) 50/3, (4) 40/3
1	MHP2D	ELECTRIC ROOM	S	225	-	-	3	-	-	-	8	2	42	(1) 40/3
1	MHP2E	ELECTRIC ROOM	S	400	-	-	3	-	-	-	6	3	42	(2) 40/3

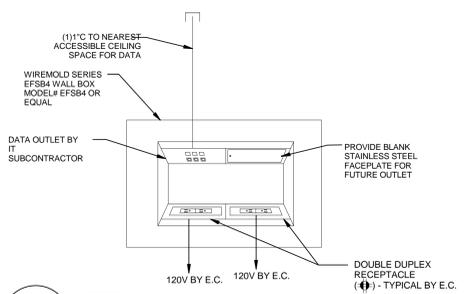
- FEED FROM CURRENT LIMITING BREAKERS. UL LISTED SERIES RATED FOR 65,000A RMS @ RATED VOLTAGE WITH UPSTREAM BREAKERS IS ACCEPTABLE.
- AUTOMATED LIGHTING SYSTEM PANEL WITH INTEGRAL, SOLENOID DRIVEN, ADDRESSABLE CIRCUIT BREAKERS. REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM ONE-LINE DIAGRAM" AND SPECIFICATIONS FOR REQUIREMENTS.
- SINGLE TUB PANEL BUT TALLER IN HEIGHT.
- PROVIDE PANEL WITH SUBFEED LUGS.

120/208V, 3 PHASE, 4W, 10 KAIC																	
PANEL NO.	LOCATION	MTG	MAIN BUS AMPS	MAIN CB	BRANCH CKT BREAKER (AMPS)						TOTAL POLES	OTHERS					
					1 POLE		2 POLE		3 POLE								
					15	20	30	15	20	30			60				
2	EPGA	ELECTRIC ROOM	S	225	150	-	42	2	4	3	-	3	2	1	84	(2) 20A-1P ARC-FAULT	
2	EPGB	ELECTRIC ROOM	S	100	-	-	18	-	-	-	-	-	-	-	30	-	
2	EPGC	ELECTRIC ROOM	S	225	150	-	24	3	2	-	5	-	1	1	1	60	(1) 125/3
2	EP1C	ELECTRIC ROOM	S	100	100	-	32	-	1	3	2	-	1	-	-	60	(2) 20A-1P ARC-FAULT
2	EP1D	ELECTRIC ROOM	S	100	100	-	22	-	1	1	3	-	-	-	-	42	-
2	EP1E	ELECTRIC ROOM	S	400	250	-	30	-	2	1	2	-	1	-	-	60	(1) 125/3
2	EP1F	ELECTRIC ROOM	S	100	100	-	29	-	3	1	4	-	-	-	-	60	-
2	TEPGA	MDF ROOM	S	100	-	-	28	10	-	-	-	-	-	2	42	-	
2	TEPGC	IDF ROOM	S	100	-	-	12	2	-	-	-	-	-	-	30	-	
2	TEP1C	IDF ROOM	S	100	-	-	16	6	-	-	-	-	-	-	30	-	
2	TEP1D	IDF ROOM	S	100	-	-	12	3	-	-	-	-	-	-	30	-	
2	TEP1E	IDF ROOM	S	100	-	-	20	6	-	-	-	-	-	1	42	(1) 70/3	
2	TEP2F	SERVER ROOM	S	100	-	-	12	4	-	-	-	-	-	-	30	-	
5	MPGA	ELECTRIC ROOM	S	225	150	-	33	-	3	2	3	-	3	1	-	84	(2) 20'1 GFCI
5	MPGB	ELECTRIC ROOM	S	225	150	-	46	3	2	2	2	-	8	1	-	126	(1) 50/2, (7) 20'1 GFCI
5	MPGC	ELECTRIC ROOM	S	100	100	-	23	-	1	1	2	-	1	-	-	42	(2) 20'1 GFCI
5	MP1C	ELECTRIC ROOM	S	100	100	-	12	-	1	1	3	-	1	1	-	42	-
5	MP1D	ELECTRIC ROOM	S	225	-	-	24	1	1	2	2	-	-	-	1	42	(1) 60/2, (9) 20'1 GFCI
5	MP1F	ELECTRIC ROOM	S	100	-	-	12	-	1	1	2	-	-	-	-	42	(5) 20'1 GFCI
5	MP2A	ELECTRIC ROOM	S	100	-	-	18	3	2	2	2	-	1	-	-	42	-
5	MP2C	ELECTRIC ROOM	S	100	100	-	16	-	1	1	3	-	-	-	-	42	-
5	MP2D	ELECTRIC ROOM	S	100	-	-	26	-	1	1	2	-	-	-	-	42	(2) 20'1 GFCI
5	MP2E	ELECTRIC ROOM	S	225	-	-	44	2	2	1	3	-	-	-	-	84	(4) 20'1 GFCI
5	MP2F	ELECTRIC ROOM	S	100	100	-	8	-	1	1	2	-	-	-	-	42	-
1	KPPGA	ELECTRIC ROOM	F	400	400	1	44	2	1	5	-	1	4	4	-	126	(1) 50/3
1	KPP1A	ELECTRIC ROOM	F	400	400	1	61	-	-	1	3	-	2	1	-	126	(1) 125/3, (1) 100/3
5	3	2	PPGA	ELECTRIC ROOM	S	400	250	-	136	-	-	-	-	-	-	168	-
5	3	2	PPGB	ELECTRIC ROOM	S	225	150	-	77	-	-	-	-	-	-	84	-
5	3	2	PPGC	ELECTRIC ROOM	S	225	150	-	64	-	-	-	-	-	-	84	-
5	3	2	PP1C	ELECTRIC ROOM	S	400	250	-	138	-	-	-	-	-	-	168	-
5	3	2	PP1D	ELECTRIC ROOM	S	225	-	-	122	-	-	-	-	-	-	126	-
5	3	2	PP1E	ELECTRIC ROOM	S	225	-	-	108	-	-	-	-	-	-	126	-
5	3	2	PP1F	ELECTRIC ROOM	S	225	-	-	114	1	-	-	-	-	-	168	-
5	3	2	PP2A	ELECTRIC ROOM	S	225	-	-	84	-	-	-	-	-	-	126	-
5	3	2	PP2C	ELECTRIC ROOM	S	225	150	-	82	-	-	-	-	-	-	126	-
5	3	2	PP2D	ELECTRIC ROOM	S	225	-	-	68	-	-	-	-	-	-	84	-
5	3	2	PP2E	ELECTRIC ROOM	S	225	-	-	68	-	-	-	-	-	-	84	-
5	3	2	PP2F	ELECTRIC ROOM	S	225	250	-	98	-	-	-	-	-	-	126	-
1	PL106B	SALON LABS	F	225	150	-	75	-	-	-	-	-	-	-	-	84	-
1	PL116	LIFE SKILLS	F	225	150	-	20	-	2	2	-	-	-	-	-	42	(1) 50/2
1	PL125C	WOOD WORKING LAB	F	225	200	-	24	1	1	4	-	1	2	-			

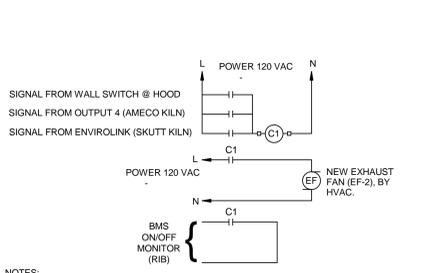




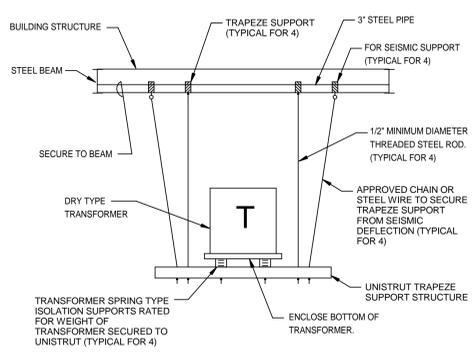
**1 EMERGENCY EPO SHUT DOWN (SCIENCE LAB)**  
 E3.5 SCALE: N.T.S.



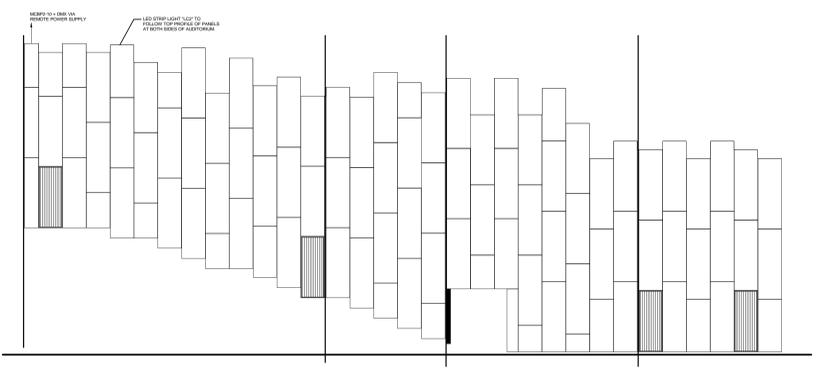
**3 TVC BOX AND CONDUIT PROVISION DETAIL**  
 E3.5 SCALE: N.T.S.



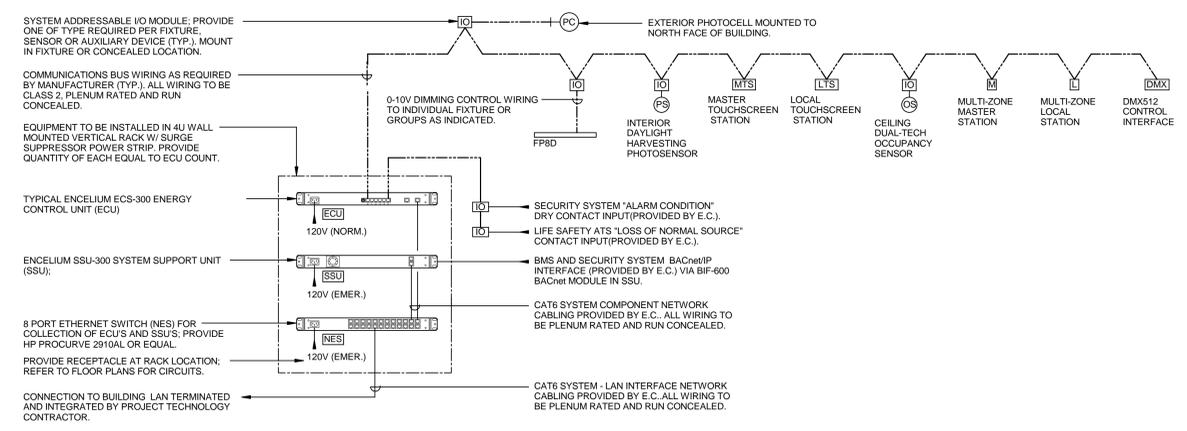
**4 KILN EXHAUST FAN TIE-IN DETAIL**  
 E3.5 N.T.S.



**5 TRAPEZE MOUNTED TRANSFORMER DETAIL**  
 E3.5 SCALE: N.T.S. NOTE: CONFIRM WITH STRUCTURAL ENGINEER.



**8 AUDITORIUM WALL PANEL LIGHTING DETAIL**  
 E3.5 SCALE: N.T.S.



**AUTOMATED LIGHTING CONTROL SYSTEM NOTES:**

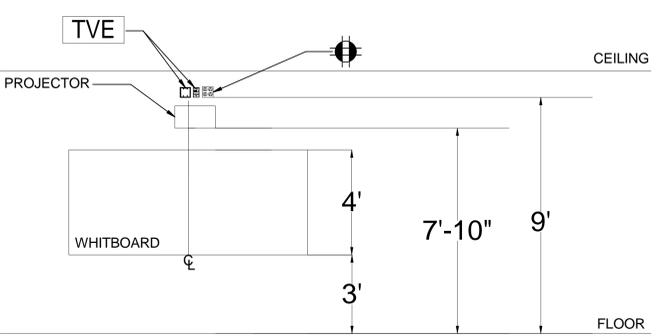
- PROVIDE SWITCHING AND/OR 0-10V DIMMING CONTROL FOR ALL LIGHTING (REFER TO PLANS) WITH PRESETS VIA IO MODULES, ACCESSORY POWER PACKS, AND RELAY PANELS.
- PROVIDE ALL SYSTEM COMPONENTS (AND WARRANTIES) FROM A SINGLE MANUFACTURER EXCEPT WHERE OTHERWISE SPECIFIED.
- PROVIDE GANGED MASTER AND LOCAL SWITCHES AT LOCATION AS INDICATED FOR USER CONTROL OF LIGHTING (UNDER COMMON MULTIGANG PLATE). ALL SWITCHES SHALL BE PROVIDED WITH ENGRAVED LABELS ON PLATES DESIGNATING THEIR FUNCTION. FILL FOR ENGRAVED LETTERING SHALL BE AS DIRECTED BY THE ARCHITECT.
- PROVIDE ENERGY MONITORING AND REPORTING MODULE TO ALLOW FOR ALL LIGHTING ELECTRICAL CONSUMPTION TO BE RECORDED, TRENDED, AND PASSED TO THE BMS SYSTEM VIA THE BACKTIP INTERFACE.
- THE BASIS OF DESIGN FOR THIS SYSTEM IS THE OSRAM ENCELIUM SYSTEM W/ POLARIS 3D AND PCS SOFTWARE INCLUDING THE FOLLOWING COMPONENTS:
  - MASTER TOUCHSCREEN STATION: #RTI-K4-M-BZW-K4-CO
  - LOCAL TOUCHSCREEN STATION: #RTI-K4-L-BZW-K4-CO
  - MULTI-ZONE LOCAL STATION: #EN-WS-SC3D-G82-WT
  - MULTI-ZONE MASTER STATION: #EN-WS-ZC3-G82-WT
  - SINGLE ZONE LOCAL ROUGH SERVICE STATION: #EN-WS-INDP9-G82-OR
  - CEILING DUAL-TECH OCCUPANCY SENSORS: #SCM-2000
  - WALL DUAL-TECH OCCUPANCY SENSORS: #SCM-2000-W
  - CEILING PHOTOSENSOR: #CES/I
  - EXTERIOR PHOTOCELL: #CES/O
- REFER TO THE "ALCS METHODS OF OPERATION NOTES" FOR SYSTEM SETUP REQUIREMENTS.
- ALCS VENDOR SHALL ASSIST THE BMS SUB-SUB CONTRACTOR WITH ALL MAPPING OF BACNET DEVICES / POINTS.
- LUTRON SENSOR SWITCH, CRESTRON, PHILLIPS OR EQUAL ARE ACCEPTABLE MANUFACTURER OPTIONS.

**ALCS METHODS OF OPERATION NOTES**

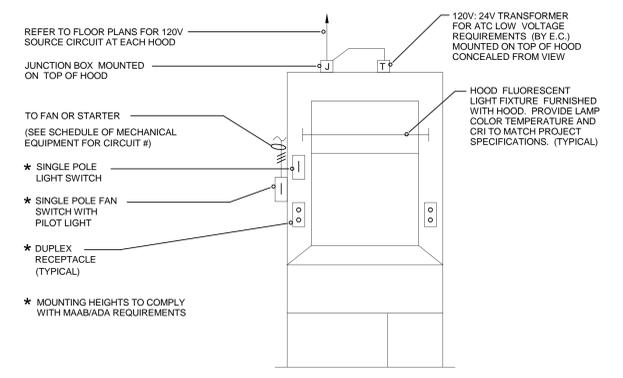
**ZONING & PRESET LEVELS:**

- INTERIOR SPACES SHALL BE PROGRAMMED FOR ZONES, SCENES, AND LEVELS TO BE ACTIVATED VIA LOCAL SWITCH STATIONS. LEVELS MAY BE ADJUSTED OUTSIDE OF THESE PRESETS VIA THE LOCAL WALL STATION. HOWEVER, WHERE PHOTOSENSORS ARE PRESENT THE LIGHTING SHALL NOT BE ALLOWED EXCEED THE FOOTCANDLE LEVEL ESTABLISHED BY THE SPACE'S PHOTOSENSOR BASED ON AVAILABLE DAYLIGHT CONTRIBUTION AT ANY GIVEN TIME.
- LIGHTING WITHIN THE DAYLIGHT ZONE ADJACENT TO OPENINGS TO THE EXTERIOR SUCH AS WINDOWS AND SKYLIGHTS (DEPTH OF EACH DAYLIGHT ZONE RELATIVE TO THE DAYLIGHT OPENING SHALL BE AS DEFINED BY THE USGBC LEED 2009 SCHOOLS PROGRAM REQUIREMENTS AND COMMONWEALTH OF MASSACHUSETTS ENERGY CODE SHALL BE PROVIDED WITH SWITCHING AND PROGRAMMED TO ALLOW FOR CONTROL SEPARATE FROM THE REMAINDER OF THE SPACE.
- EXTERIOR LIGHTING SHALL BE PROGRAMMED FOR 50% (POST-CURFEW) AND 100% (PRE-CURFEW) DIMMED LEVELS TO BE ACTIVATED VIA PHOTOCELL SETPOINTS AND TIMED SCHEDULES.
- INTERIOR AND EXTERIOR PATHS OF EGRESS SHALL BE PROGRAMMED TO ACTIVATE AT 100% LEVELS UPON RECEIPT OF AN ALARM SIGNAL FROM THE LIFE SAFETY AUTOMATIC TRANSFER SWITCH, FIRE ALARM SYSTEM, AND SECURITY SYSTEM. LIGHTING LEVELS SHALL BE MAINTAINED AT 100% LEVELS REGARDLESS OF SUBSEQUENT INPUT REQUESTS UNTIL THE ORIGINATING ALARM SIGNAL IS RESTORED TO A NORMAL CONDITION. CONTACT CLOSURE OUTPUTS FROM EACH PIECE OF EQUIPMENT / SYSTEM SHALL BE PROVIDED BY THE RESPECTIVE VENDOR WITH COORDINATION OF ALL PROGRAMMING REQUIRED TO PROVIDE THE FUNCTIONALITY DESCRIBED.
- REFER TO SPECIFICATIONS FOR FURTHER CONTROL SCENARIOS SUCH AS LOAD SHEDDING, PEAK LIMITING, TASK TUNING, ETC..
- EXACT ZONING AND LEVEL PROGRAMMING SHALL BE TO MAPPED OUT (VIA BUILDING FLOOR & SITE GRAPHICS IN SYSTEM SOFTWARE) WITH THE OWNER OR THEIR REPRESENTATIVE PRIOR TO SYSTEM SETUP AND PROGRAMMING OF THE SYSTEM. ALL PROGRAMMING SHALL BE CONFIRMED AND COMPLETED PRIOR TO COMMISSIONING. NO OWNER REQUESTED PROGRAMMING SHALL BE ALLOWED WHICH WILL VIOLATE THE LEED PROGRAM REQUIREMENTS OR COMMONWEALTH OF MASSACHUSETTS BUILDING, ELECTRICAL, AND ENERGY CODES OR ANY CODES REFERENCED THEREIN.

**2 AUTOMATED LIGHTING CONTROL SYSTEM ONE-LINE DIAGRAM**  
 E3.5 SCALE: N.T.S.



**6 TYPICAL TVE OUTLET DETAIL**  
 E3.5 SCALE: N.T.S.



**7 TYPICAL LAB FUME HOOD WIRING REQUIREMENTS**  
 E3.5 SCALE: N.T.S.

**NOTES:**

- REFER TO APPROVED SHOP DRAWINGS FOR EXACT REQUIREMENTS.
- REFER TO ARCH. DWGS. FOR FUME HOOD TYPES AND DETAILS FOR ALL COMPONENT REQUIREMENTS.
- UNLESS NOTED OTHERWISE, ALL COMPONENTS ARE SHIPPED LOOSE AND REQUIRE ASSEMBLY & WIRING BY THE ELECTRICAL CONTRACTOR.
- ALL LOW VOLTAGE WIRING IS THE RESPONSIBILITY OF THE ATC CONTRACTOR.

REVISIONS NO.	DATE	REMARKS	BY

REVISIONS NO. DATE REMARKS BY

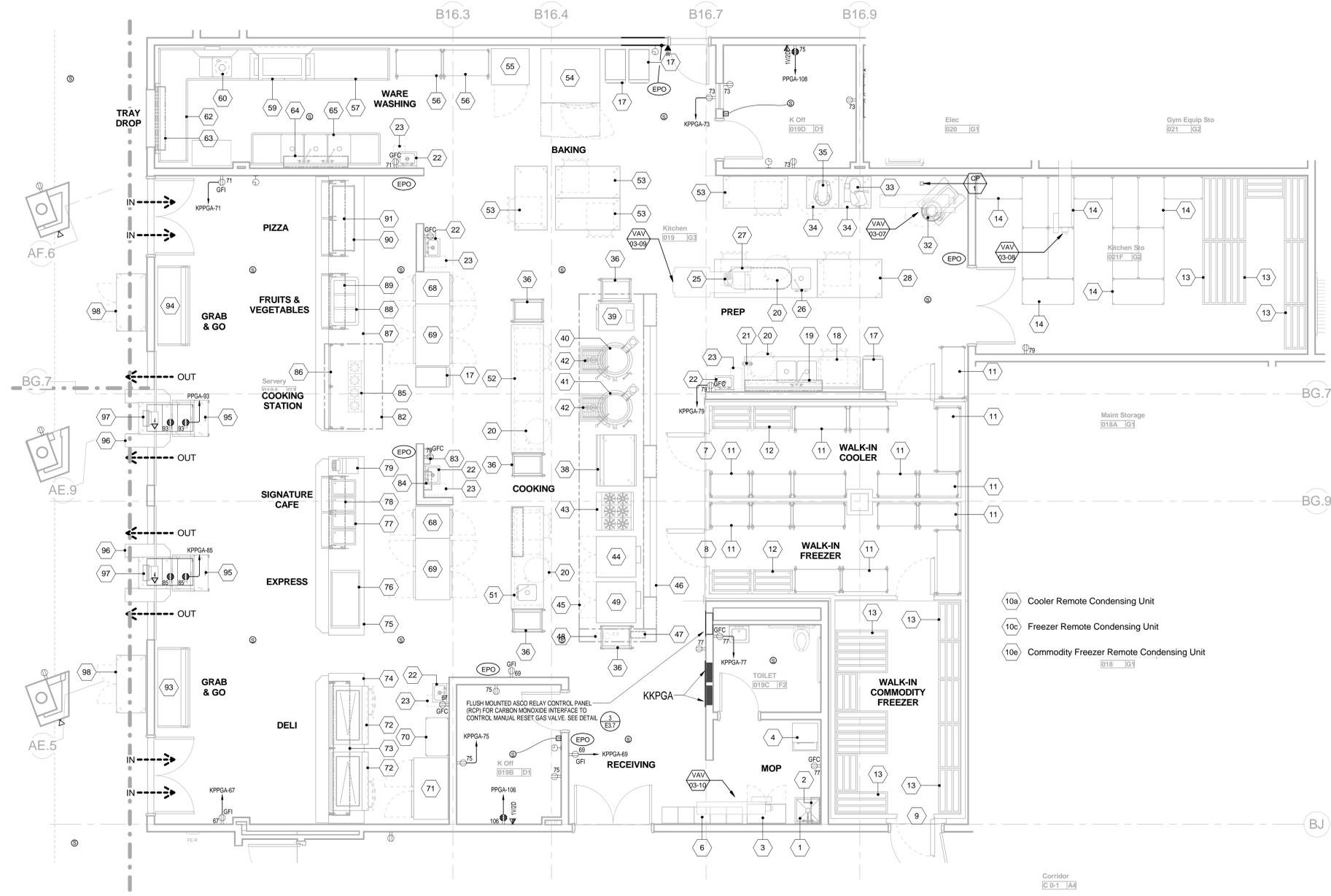
**E3.5**

JOB NUMBER 403114



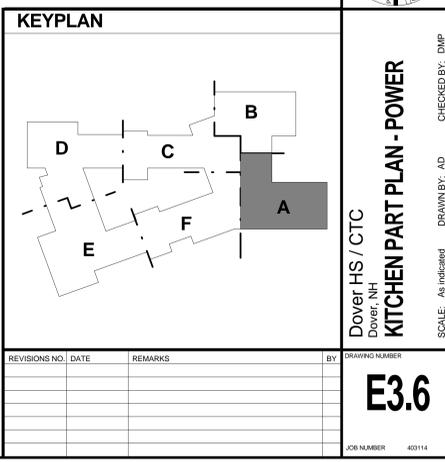
**GENERAL POWER NOTES:**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 80% CONDUCTIVITY COPPER MINIMUM #12 AWG SIZE, THINWALL INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCH, TAMPER SWITCH, ETC.
- DO NOT PENETRATE STAIRS WITH ANY UTILITIES EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- WHERE CONDUITS AND/OR BOXES CANNOT BE FLUSH MOUNTED IN BUILDING PROVIDE A SYSTEM OF SURFACE METAL RACEWAYS AND BOXES IN ACCORDANCE WITH ARTICLE 308, EQUAL TO WIRING FOR ALL FINISH SPACES WHERE PUBLIC HAS ACCESS, INCLUDING CORRIDORS, CLASSROOMS, OFFICES, ETC.
- CONFIRM RATINGS & FINAL LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO ROUGHING.
- ALL OUTLETS ON EXTERIOR WALLS WITH CASEWORK SHALL BE MOUNTED 7" ABOVE CASEWORK, CONFIRM HEIGHT OF CASEWORK WITH HVAC AND ARCHITECT PRIOR TO ROUGHING.
- TYPICALLY PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES WITHIN 6 FEET OF WATER SOURCES.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS.
- TYPICALLY PROVIDE (2) 4" SLEEVES OVER EACH CORRIDOR DOOR.
- PROVIDE (2) 2" THROUGH-WALL SLEEVE ABOVE CEILING OVER THE DOORS INTO EACH ROOM LEADING FROM THE CORRIDOR FOR COMMUNICATIONS DATA WIRING.
- LOCATE ALL WALL TELEPHONE OUTLETS 12 INCHES AWAY FROM ALL OTHER OUTLETS/DEVICES.
- PROVIDE (2) 1" SLEEVES OVER EACH DOOR FOR TEL. DATA SECURITY AND SOUND SYSTEM WIRING. TEL. DATA SHALL BE DEDICATED TO (1) OF THE CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUITS REQUIRED FOR AUDIOVISUAL SYSTEMS SECTION 274100 DEVICES AS SHOWN ON AV DRAWINGS. ALL LOCATIONS OF POWER AND AV OUTLET BOXES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGHING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF RECEPTACLES WITH PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER AND LOCAL TOGGLE SWITCH.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS FOR ALL GOOGLE CABINETS PRIOR TO ROUGH-IN.



- 10a Cooler Remote Condensing Unit
- 10c Freezer Remote Condensing Unit
- 10e Commodity Freezer Remote Condensing Unit

1  
E3.6 GROUND FLOOR PART A - KITCHEN 3804 - POWER  
SCALE: 1/4" = 1'-0"





AUTO COLLISION EQUIPMENT SCHEDULE - ROOM 137A

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like PORTABLE INFRARED CURING LAMP, PORTABLE WELDER, SAND BLASTING CABINET, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL137A. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

1 AUTO COLLISION EQUIPMENT SCHEDULE - ROOM 137A  
E3.8 SCALE: N.T.S.

AUTO TECH EQUIPMENT SCHEDULE - ROOM 138A

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like BATTERY CHARGER, SAND BLASTING CABINET, TWO POST LIFT - ROTARY, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL138A. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

2 AUTO TECH EQUIPMENT SCHEDULE - ROOM 138A  
E3.8 SCALE: N.T.S.

BUILDING CONSTRUCTION EQUIPMENT SCHEDULE - ROOM 126C

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like INDUSTRIAL CABINET SAW, COMPOUND MITER SAW, JET DISC SANDER, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL126C. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

3 BUILDING CONSTRUCTION EQUIPMENT SCHEDULE - ROOM 126C  
E3.8 SCALE: N.T.S.

WOOD WORKING EQUIPMENT SCHEDULE - ROOM 125C

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like BAND SAW, DRILL PRESS, JOINTER, DISK SANDER, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL125C. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

4 WOOD WORKING EQUIPMENT SCHEDULE - ROOM 125C  
E3.8 SCALE: N.T.S.

ELECTRICAL TECH EQUIPMENT SCHEDULE - ROOM 127

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like PORTABLE INFRARED CURING LAMP, PIPE THREADER, DUAL ARM FUME EXTRACTOR.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL127. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

5 ELECTRICAL TECH EQUIPMENT SCHEDULE - ROOM 127  
E3.8 SCALE: N.T.S.

PRE-ENGINEERING EQUIPMENT SCHEDULE - ROOM 145D

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like CNC TRAINER, ROBOTIC ARM SLIDE BASE CONTROLLER, LASER ENGRAVING SYSTEM, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL145D. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

6 PRE-ENGINEERING EQUIPMENT SCHEDULE - ROOM 145D  
E3.8 SCALE: N.T.S.

WELDING LAB EQUIPMENT SCHEDULE - ROOM 135A

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like AC/DC WELDER, MIG WELDER, WIRE FEED, ARC WELDER, etc.

- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL135A. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

7 WELDING LAB EQUIPMENT SCHEDULE - ROOM 135A  
E3.8 SCALE: N.T.S.

BIO MED EQUIPMENT SCHEDULE - ROOM 233

Table with columns: EQUIP NO., EQUIPMENT, QTY, NEW, EXIST, HP, K.W., AMPS, VOLT PHASE, PANEL, CKT. NO., BRKR., WIRE & COND., EQUIPMENT AND CONNECTIONS, REMARKS. Includes items like MANUAL AUTOCLAVE STERILIZER, FREEZER, ULTRA LOW TEMP, etc.

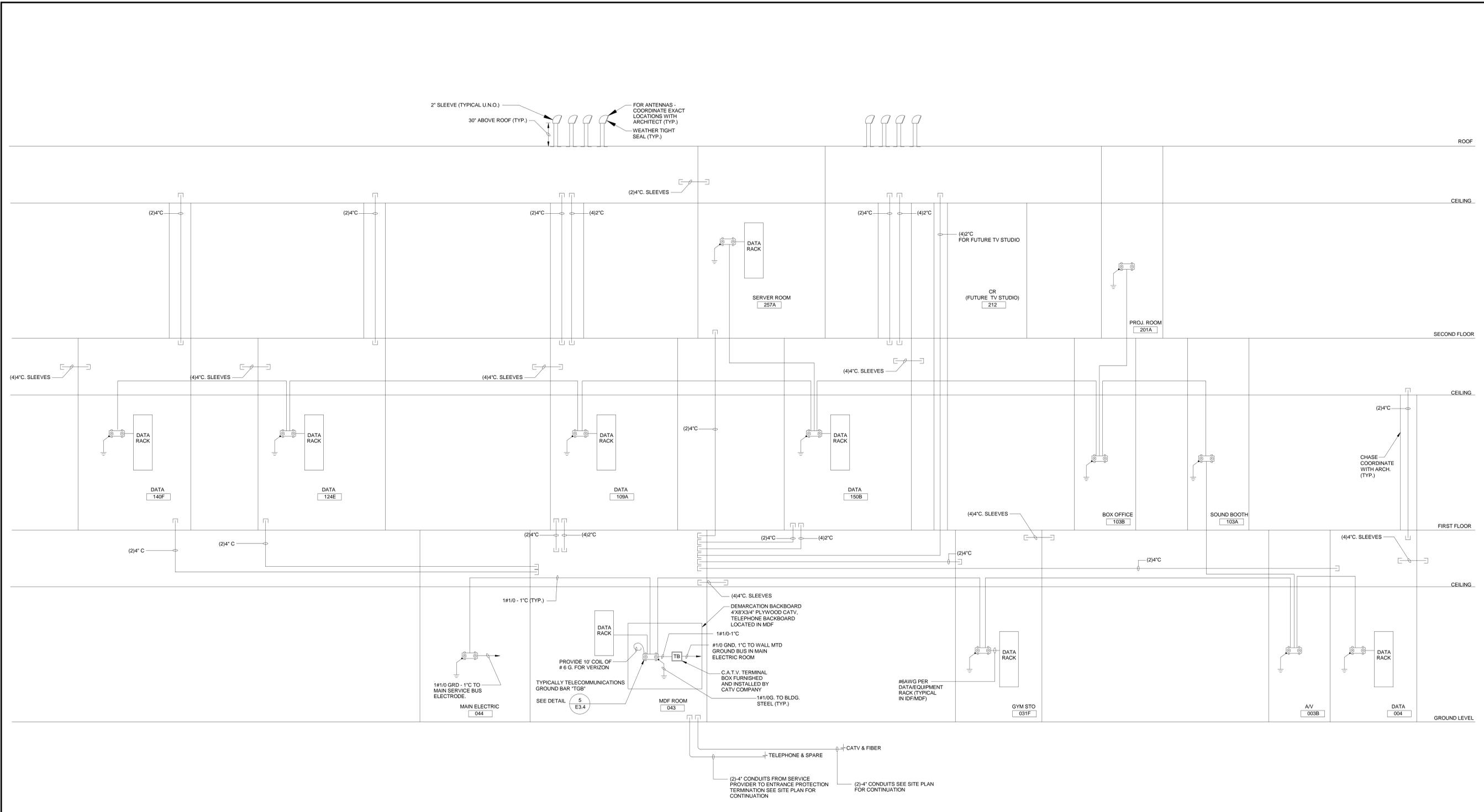
- 1 FIELD CONFIRM EXACT EQUIPMENT LOCATION PRIOR TO ROUGHING. COORDINATE WITH ARCHITECT.
2 TYPICALLY INSTALL CEILING MOUNTED RECEPTACLE AND PROVIDE CORD REEL HEAVY DUTY EQUAL TO HUBBELL ITEM #HBL45123C20. EXTENSION CORD 45 FEET 12 GAUGE WITH NEMA 5-20 SINGLE CONNECTOR. INSTALL CORD REEL ADJACENT TO RECEPTACLE. ALSO PROVIDE ALL MOUNTING BRACKETS AND STRUCTURAL SUPPORT FOR MOUNTING OF CORD REELS TO BEAMS. PROVIDE PIVOT BASE ON ALL REELS.
3 E.C SHALL F81 #6 AWG GROUND IN CONDUIT TO BUILDING STEEL & GROUNG BUS OF PANEL PL127. FROM LOCATION OF FLAMMABLE STORAGE CABINET. EXACT LOCATION TO BE COORDINATED WITH EQUIPMENT INSTALLER.

5 ELECTRICAL TECH EQUIPMENT SCHEDULE - ROOM 127  
E3.8 SCALE: N.T.S.

Table with columns: REVISIONS NO., DATE, REMARKS, BY. Includes revision B dated 2016-09-01 with remark Addendum B.







**1 TELECOMMUNICATIONS CONDUIT & GROUNDING RISER DIAGRAM**

E3.11

SCALE: NTS

**NOTES:**

- COORDINATE ALL SLEEVE LOCATIONS WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- COORDINATE ALL CONDUIT ROUTING WITH TELECOMMUNICATIONS CONTRACTOR. PROVIDE PULL BOXES WHERE CONDUIT BEND EXCEEDS A TOTAL OF 180 DEGREES OR DISTANCE EXCEEDS 150'. ALWAYS ALIGN CONDUITS ON OPPOSITE ENDS OF PULL BOX.
- PULL BOX SIZES FOR 4" CONDUITS SHALL BE MINIMUM 15" WIDE X 60" LONG X 8" DEEP. INCREASE WIDTH OF PULL BOX 8" FOR EVERY ADDITIONAL 4" CONDUIT.
- ALL CONDUIT BENDS SHALL BE MINIMUM 36" RADIUS.
- E.C. SHALL BOND ALL CABLE TRAY TO "TSB" IN RESPECTIVE DATA ROOM WITH #6 GROUND. THE CABLE TRAY SHALL BE ELECTRICALLY CONTINUOUS THROUGH ENTIRE RUN INCLUDING ALL FITTINGS.
- PROVIDE #8 GROUND AND BUSHING AT ALL SLEEVES AND THROUGH ROOF CONDUITS FOR ANTENNAS.

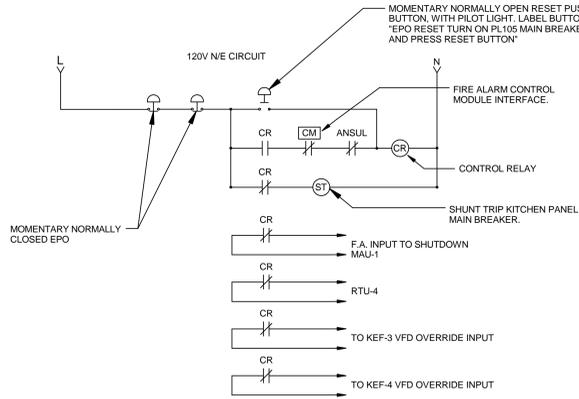
CULINARY KITCHEN EQUIPMENT SCHEDULE

EQ. NO.	EQUIPMENT	QTY	HP	K.W.	AMPS	VOLTS	PANEL	CKT. NO.	BKRR.	WIRE & COND.	EQUIPMENT AND CONNECTIONS	REMARKS
103	WASHER	1	-	-	-	120/1	KPP1A	2	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
104	DRYER	1	-	-	-	120/1	KPP1A	4	30A-2P	3#10+1#10G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
106	ICE MAKER	1	-	-	13.8	120/1	KPP1A	8	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
111	WALK-IN COOLER - LIGHTS	1	-	1.1	-	120/1	EPIC	13	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
112	WALK-IN COOLER - DOOR HEATER	1	-	0.5	-	120/1	EPIC	13	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
112	WALK-IN FREEZER - LIGHTS	1	-	1.3	-	120/1	EPIC	15	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
112	WALK-IN FREEZER - HEAT TRACE	1	-	-	-	120/1	EPIC	17	20A-1P	2#12+1#12G-3/4"	X	SEE KITCHEN EQUIPMENT NOTE #18
113a	COOLER - CONDENSING UNIT	1	1.0	-	9.7	208/1	EPIC	14.16	20A-2P	3#12+1#12G-3/4"	X	PROVIDE 6 #14 FOR INTERLOCK TO CONDENSING UNIT
113b	COOLER - EVAPORATOR COIL	1	-	-	2.0	120/1	EPIC	18	20A-1P	2#12+1#12G-3/4"	X	PROVIDE 6 #14 FOR INTERLOCK TO CONDENSING UNIT
113c	FREEZER - CONDENSING UNIT	1	2.0	-	11.0	208/3	EPIC	20.22,24	20A-3P	4#12+1#12G-3/4"	X	PROVIDE 6 #14 FOR INTERLOCK TO CONDENSING UNIT
113d	FREEZER - EVAPORATOR COIL	1	-	-	8.2	208/1	EPIC	26.28	20A-2P	3#12+1#12G-3/4"	X	PROVIDE 6 #14 FOR INTERLOCK TO CONDENSING UNIT
119	WHITE BOARD	1	-	-	-	120/1	KPP1A	10	20A-1P	2#12+1#12G-3/4"	X	
121	TWENTY-QUART MIXER	2	-	-	8.0	120/1	KPP1A	12.8, 14	(2) 20A-1P	(2) 2#12+1#12G-3/4"	X	CONVENIENCE 'GF' OUTLETS
124	PREP COUNTER WITH SINKS	1	-	-	-	120/1	KPP1A	16 & 18	(2) 20A-1P	(2) 2#12+1#12G-3/4"	X	CONVENIENCE 'GF' OUTLETS
129	DROP CORD	4	-	-	-	120/1	KPP1A	1-3,5-7	(4) 20A-1P	(4) 2#12+1#12G-3/4"	X	POWER TO LIGHTS FROM ITEM #132
130	EXHAUST VENTILATOR LIGHTS	1	-	-	-	120/1	-	-	-	-	X	POWER TO LIGHTS FROM ITEM #132
131	EXHAUST VENTILATOR LIGHTS	2	-	-	-	120/1	-	-	-	-	X	POWER TO LIGHTS FROM ITEM #132
132	VENTILATOR DEMAND CONTROL SYSTEM	1	-	-	-	120/1	KPP1A	9	20A-1P	2#12+1#12G-3/4"	X	SEE DETAIL 6/E3.7
133	FIRE SUPPRESSION SYSTEM	1	-	-	-	120/1	EPIC	30	20A-1P	2#12+1#12G-3/4"	X	
134	FOUR-BURNER RANGE WITH OVEN	1	-	-	0.1	120/1	KPP1A	11	20A-1P	2#12+1#12G-3/4"	X	
135	WORK TABLE WITH OVERHEAD RACK/SHELF	4	-	-	-	120/1	KPP1A	25, 26, 27, 28	(8) 20A-1P	(8) 2#12+1#12G-3/4"	X	
135a	WORK TABLE	4	-	-	-	120/1	KPP1A	25, 26, 27, 28	(8) 20A-1P	(8) 2#12+1#12G-3/4"	X	
135b	WORK TABLE	1	-	-	-	120/1	KPP1A	36 & 38	(2) 20A-1P	(2) 2#12+1#12G-3/4"	X	
136	GRATE TOP RANGE WITH CONVECTION OVEN	1	-	-	3.4	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
137	FORTY-QUART KETTLE WITH DRAIN CART STAND	1	-	-	1.0	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
138	TRIPLE DECK OVEN	1	-	-	26.1	208/3	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
141	DOUBLE CONVECTION OVEN	1	-	-	15.0	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
142	COMBINATION OVEN-STEAMER WITH STAND	1	-	-	15.0	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
143	GREAT TOP RANGE WITH CONVECTION OVEN	1	-	-	3.4	120/1	KPP1A	40	20A-1P	2#12+1#12G-3/4"	X	
146	REFRIGERATED BASE	1	-	-	8.9	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
147	GRATE TOP RANGE	1	-	-	1.0	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
148	GRIDDLE TOP RANGE	1	-	-	1.0	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
149	FRYER ASSEMBLY	1	-	-	3.4	120/1	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #154
152	EXHAUST VENTILATOR	1	-	-	7.0	120/1	-	-	-	-	X	POWER TO LIGHTS FROM ITEM #155
153	EXHAUST VENTILATOR	1	-	-	-	120/1	-	-	-	-	X	POWER TO LIGHTS FROM ITEM #155
154	UTILITY DISTRIBUTION SYSTEM (USD)	1	-	-	-	120/208	KPP1A	37, 39, 41	125A-3P	4#1+1#6G-1 1/2"	X	SEE KITCHEN EQUIPMENT NOTE #19
155	VENTILATOR DEMAND CONTROL SYSTEM	1	-	-	87.4	208/3	KPP1A	42	20A-1P	2#12+1#12G-3/4"	X	SEE DETAIL 7/E3.7
156	FIRE SUPPRESSION SYSTEM	1	-	-	-	120/1	EPIC	19	20A-1P	2#12+1#12G-3/4"	X	
157	CHEF'S COUNTER ASSEMBLY WITH DOUBLE OVERSHELF	1	-	-	-	120/208	KPP1A	31, 33, 35	100A-3P	4#1+1#6G-1 1/2"	X	
157a	PREP TOP REFRIGERATOR	1	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
157b	SOUP WELL	2	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
157c	HEAT LAMP	2	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
157d	POS PRINTER	4	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157. DATA CABLE
157e	HOT FOOD COUNTER	1	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
157g	HEAT LAMP	1	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
157h	PREP TOP REFRIGERATOR	1	-	-	-	-	-	-	-	-	X	POWER CONNECTION IS PROVIDED FROM ITEM #157
158	ADA COMPLIANT PREP STATION WITH SINK	1	-	-	-	120/1	KPP1A	29 & 68	(2) 20A-1P	(2) 2#12+1#12G-3/4"	X	CONVENIENCE 'GF' OUTLETS
159	FIVE-QUART MIXER	4	-	-	2.9	120/1	KPP1A	43-45-47-48	(4) 20A-1P	(4) 2#12+1#12G-3/4"	X	
167	DISPOSER	1	-	-	6.8	208/3	KPP1A	44, 46, 48	20A-3P	4#12+1#12G-3/4"	X	
169	WAREWASHER	1	-	-	480.3	MHRGB	7, 9, 11	80A-3P	4#3+1#6G-1 1/4"	X		
177	REACH-IN REFRIGERATOR	1	-	-	7.0	120/1	KPP1A	51	20A-1P	2#12+1#12G-3/4"	X	
178	BEVERAGE COUNTER WITH SINK	1	-	-	-	120/1	KPP1A	53	20A-1P	2#12+1#12G-3/4"	X	
179	COFFEE BREWER	1	-	-	-	120/208	KPP1A	55, 57	30A-2P	3#10+1#10G-3/4"	X	
180	EXPRESSO MACHINE	1	-	-	24.0	120/208	KPP1A	59, 61	30A-2P	3#10+1#10G-3/4"	X	
182	UNDERCOUNTER SODA SYSTEM	1	-	-	-	120/1	KPP1A	63	20A-1P	2#12+1#12G-3/4"	X	
184	CASHIER TERMINAL	1	-	-	-	120/1	KPP1A	65	20A-1P	2#12+1#12G-3/4"	X	PROVIDE FLUSH-FLOOR BOXES FOR POWER & DATA. ALSO PROVIDE (1) EMPTY 1" WITH PLUG STRAP TO KITCHEN OFFICE FOR EACH STATION
190	HOST LECTERN	1	-	-	-	120/1	KPP1A	67	20A-1P	2#12+1#12G-3/4"	X	

REFER TO FOOD SERVICE DRAWINGS FOR EXACT EQUIPMENT LOCATION & ROUGHING REQUIREMENTS.

KITCHEN EQUIPMENT NOTES:

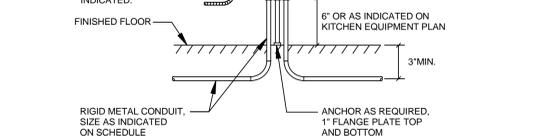
- REFER TO KITCHEN EQUIPMENT DRAWINGS AND ARCHITECTURAL DRAWINGS FOR KITCHEN EQUIPMENT LAYOUT, ELECTRICAL CHARACTERISTICS, AND EXACT LOCATION, ROUGH-IN AND CONNECTION REQUIREMENTS.
- COORDINATE WITH THE KITCHEN EQUIPMENT INSTALLER'S FINAL ELECTRICAL REQUIREMENTS PRIOR TO ROUGHING IN OF ANY ELECTRICAL WORK.
- PROVIDE ALL DISCONNECTING DEVICES FOR ALL KITCHEN EQUIPMENT REQUIRED BY ELECTRICAL CODE ART. 422, PART D UNLESS PROVIDED AS PART OF KITCHEN EQUIPMENT.
- GROUND CONDUCTORS SIZED PER ELECTRIC CODE GROUNDING CONDUCTOR TABLE 250-95 SHALL BE INCLUDED IN ALL KITCHEN BRANCH CIRCUITS.
- PROVIDE CONTROL CONNECTION FROM AUTOMATIC FIRE SUPPRESSION SYSTEM TO SHUNT TRIP AND SOLENOID COIL.
- ALL DIRECT CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE PER KITCHEN EQUIPMENT MANUFACTURER'S REQUIREMENTS. VERIFY LIQUID FLEXIBLE CONDUIT/CORD LENGTHS REQUIRED.
- ALL SWITCHES INSTALLED AS AN EQUIPMENT DISCONNECTING MEANS SHALL BE LABELED WITH THE DESCRIPTION OF THE EQUIPMENT BEING SERVED. EXAMPLE: WALK-IN COOLER.
- EXPOSED WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS FOR A WET AREA. MOUNT WORK OFF SURFACES TO ALLOW CLEANING. ALL WORK SHALL USE GALVANIZED OR CORROSION RESISTANT MATERIALS. CONDUITS PENETRATING FLOOR SHALL BE RIGID GALVANIZED STEEL.
- CIRCUIT SIZE SHALL MATCH THE CIRCUIT BREAKER AMPACITY. REFER TO SCHEDULES.
- TO HOOD SUPPLIED JB @ CEILING TO FEED HOOD LIGHTING FROM REMOTE SWITCH PROVIDED BY E.C. & CONTROL SWITCH FOR REMOTE FAN PROVIDED BY E.C.
- JB MTD CEILING TO LIGHTS FROM REMOTE SWITCHES PROVIDED BY E.C. (EACH SIDE CONTROLLED SEPARATELY) CONTROL SW FOR REMOTE FANS PROVIDED BY E.C. (EACH SIDE CONTROLLED SEPARATELY).
- INSTALL AND CONNECT LIGHT FIXTURES IN COOLER & FREEZER, FURNISHED BY KITCHEN EQUIPMENT SUPPLIER.
- TRENCH FLOOR AS REQUIRED TO FEED KITCHEN ISLANDS.
- UNLESS OTHERWISE NOTED ALL CIRCUITS SHALL BE FED FROM PANEL 'KPP1A'.
- ALL FLOOR BOXES IN KITCHEN SHALL BE INSTALLED 6" AFF. FLOOR BOXES SHALL BE WATERTIGHT.
- PROVIDE SHUTDOWN WIRING FOR GAS SOLENOID IN KITCHEN. FROM ANSUL SYSTEM.
- ALL DISCONNECT SWITCHES LOCATED IN THE KITCHEN AREA SHALL BE NEMA 4X STAINLESS STEEL.
- E.C. SHALL INSTALL LIGHTING FIXTURE FURNISHED BY KITCHEN EQUIPMENT SUPPLIER. INSTALL CONDUIT AND WIRE OUTSIDE THE ENCLOSURE.
- E.C. TO MAKE INTERCONNECTIONS BETWEEN U.D.S. SECTIONS. COORDINATE WITH APPROVED SHOP DRAWING.
- ALL 120V OUTLETS SHALL BE PROVIDED WITH GROUND FAULT PROTECTION (GFI). REFER TO NEC ARTICLE 210.8.B(2).
- ALL 120V HARD CONNECTIONS SHALL BE PROVIDED WITH GROUND FAULT PROTECTION (GFI) BREAKER TYPE.



SEQUENCE OF OPERATIONS:

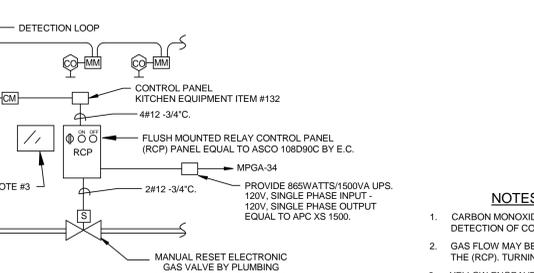
- PROVIDE ALL RELAYS, PUSH BUTTONS, TRANSFORMERS, CONTACTORS SHUNT TRIP CIRCUIT BREAKERS, WIRING AND CONDUITS FOR A COMPLETE POWER OFF SYSTEM AND ALARM NOTIFICATION DESCRIBED IN PARAGRAPHS 2 & 3 BELOW.
- THE ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM SHALL CAUSE THE FOLLOWING TO OCCUR:
  - TURN OFF POWER TO THE GAS SOLENOID.
  - TURN OFF POWER TO ALL ITEMS UNDER KITCHEN HOOD REQUIRING ELECTRICAL CONNECTION OR CONTROL BY TURNING OFF POWER TO KITCHEN PANEL VIA SHUNT TRIP MAIN BREAKER.
  - SEND A SIGNAL TO THE FIRE ALARM CONTROL PANEL TO INITIATE (FACP) SYSTEM OPERATION.
- COORDINATE WITH INSTALLERS OF FIRE SUPPRESSION SYSTEM, & KITCHEN EQUIPMENT SUPPLIER.
- ONE SYSTEM REQUIRED PER HOOD.
- KITCHEN HOOD SUMMARY: THE HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL UPON ACTIVATION SHALL PUT THE FACP INTO "AUTO" ALARM MODE AND SHALL ALSO SHUTDOWN THE HOOD'S SUPPLY FAN. TURN OFF POWER TO THE GAS SOLENOID AND TURN OFF POWER TO ALL ITEMS UNDER THE KITCHEN HOOD. THE HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE. FIRE ACTUATED DAMPERS IF INSTALLED IN THE EXHAUST OUTLET SHALL SHUT DOWN THE EXHAUST FAN UPON ACTIVATION. IT SHALL NOT BE REQUIRED TO RESTART THE HOOD EXHAUST FAN WHEN THE EXTINGUISHING SYSTEM IS ACTIVATED IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAD PREVIOUSLY BEEN SHUTDOWN. SHUTOFF DEVICES SHALL REQUIRE MANUAL RESET.

2 TYPICAL CULINARY KITCHEN RAISED JUNCTION/OUTLET BOX INSTALLATION



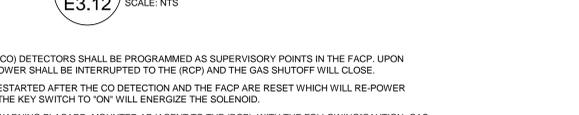
SCALE: N.T.S. NOTE: THIS DETAIL DOES NOT APPLY TO P.O.S. FLOOR BOXES.

3 CARBON MONOXIDE GAS SOLENOID SHUT DOWN DETAIL



SCALE: N.T.S.

4 CULINARY KITCHEN EQUIPMENT EMERGENCY POWER OFF WIRING DIAGRAM

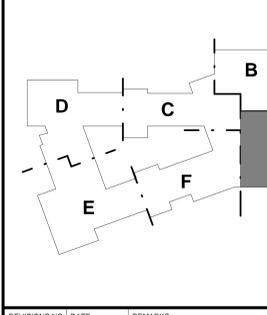


SCALE: N.T.S.

NOTES:

- CARBON MONOXIDE (CO) DETECTORS SHALL BE PROGRAMMED AS SUPERVISORY POINTS IN THE FACP. UPON DETECTION OF CO, POWER SHALL BE INTERRUPTED TO THE (RCP) AND THE GAS SHUTOFF WILL CLOSE.
- GAS FLOW MAY BE RESTARTED AFTER THE CO DETECTION AND THE FACP ARE RESET WHICH WILL RE-POWER THE (RCP). TURNING THE KEY SWITCH TO "ON" WILL ENERGIZE THE SOLENOID.
- YELLOW ENGRAVED WARNING PLACARD, MOUNTED ADJACENT TO THE (RCP), WITH THE FOLLOWING "CAUTION- GAS FLOW IS RE-ESTABLISHED WHEN "ON" KEY SWITCH IS TURNED AND GAS VALVE IS MANUALLY RESET. REIGHT ALL ASSOCIATED PILOTS IMMEDIATELY UPON RESET. CO DETECTORS AND THE FIRE ALARM SYSTEM CONTROL PANEL MUST CLEAR OF ANY CO ALARMS PRIOR TO RESET."

KEYPLAN



REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

E3.12

SCALE: 1/4" = 1'-0"

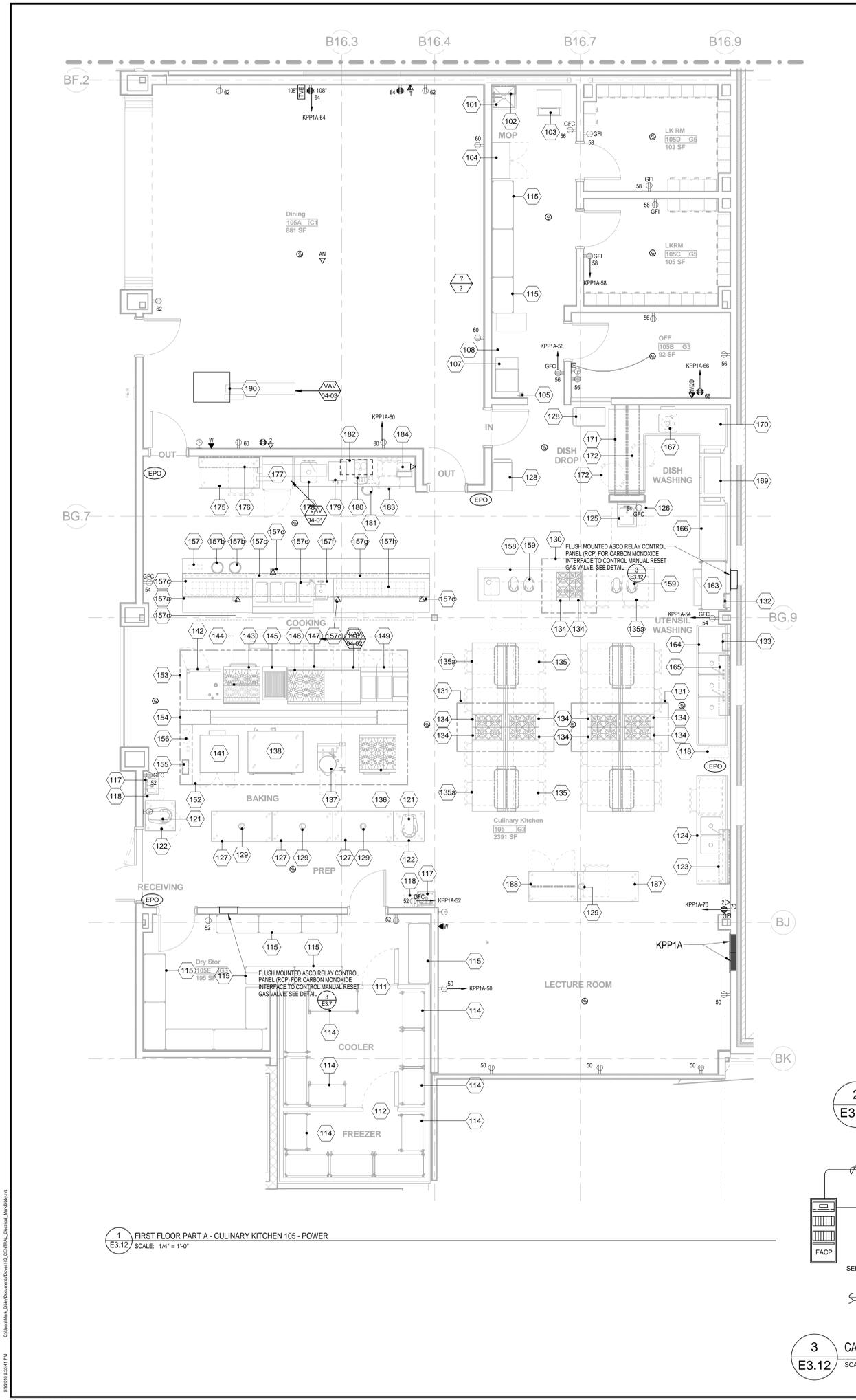
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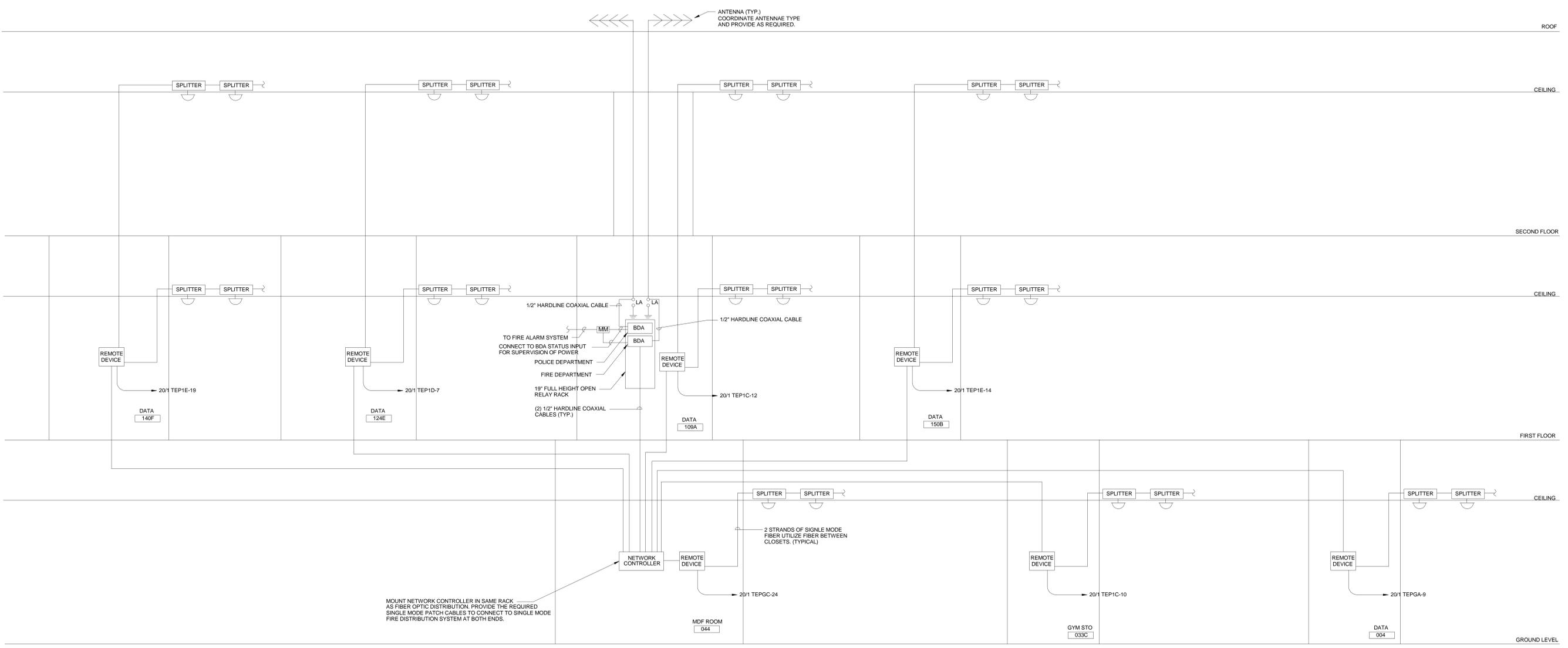
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100% CONFORMED SET - FOR CONSTRUCTION  
 9/12/16

Dover HS / CTC  
 Dover, NH  
 CULINARY KITCHEN PART PLAN - POWER  
 SCALE: 1/4" = 1'-0"  
 DRAWING NO. E3.12  
 CHECKED BY: DMP  
 DRAWN BY: AD

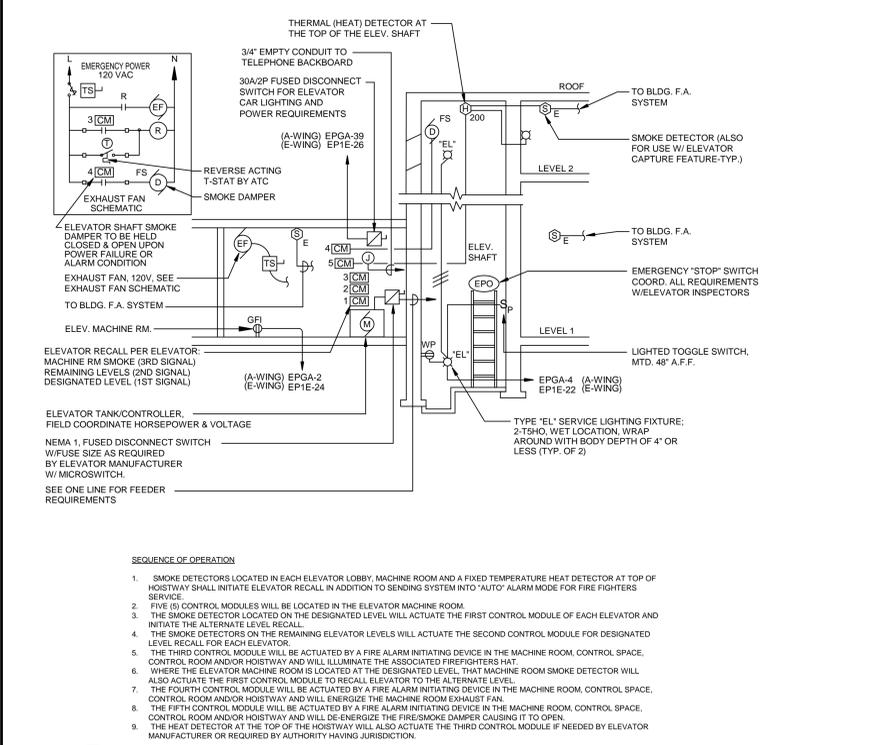
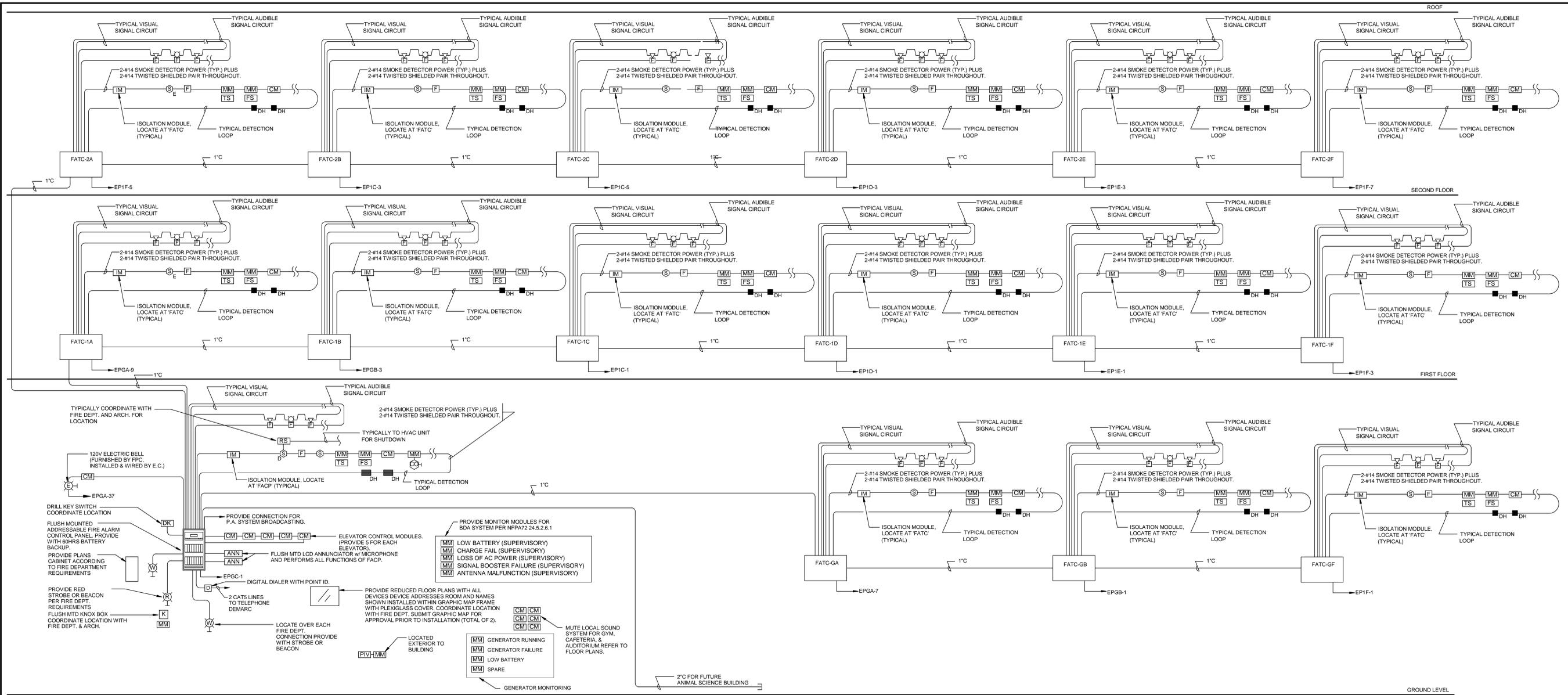




**1** DISTRIBUTED ANTENNA SYSTEM (DAS/BDA)  
E3.13 SCALE: N.T.S.

**DAS NOTES:**

1. PROVIDE ALL BONDING HARDWARE REQUIRED FOR A COMPLETE GROUNDING SYSTEM TO ASSOCIATED PANELS, EQUIPMENT, SHELVES, RACKS, AND ANY OTHER METALLIC COMPONENTS TO ENSURE ELECTRICAL CONTINUITY BETWEEN METALLIC COMPONENTS AND THE GROUNDED RACK OR CABINET.
2. MAXIMUM FOUR ANTENNAE PER REMOTE DEVICE. PROVIDE AND LOCATE DEVICES IN SUFFICIENT QUANTITY TO PROVIDE A MINIMUM SIGNAL COVERAGE OF 95% AT NEG. 85dBm WITHIN THE BUILDING.
3. PRIORITY AREAS OF COVERAGE INCLUDE THE GYMNASIUM, AUDITORIUM, COMMONS, CAFETERIA, CORRIDORS, MAIN ENTRANCE LOBBY AND STAIR WELLS.
4. ALL COMPONENTS THAT REQUIRE 120V SHALL BE FED FROM CONDITIONED UPS POWER NEAREST "TEP" PANEL.
5. PUBLIC SAFETY BI-DIRECTIONAL AMPLIFIERS, ANTENNAE "POLICE" AND "FIRE" SHALL BE PROVIDED. COORDINATE EXACT FREQUENCIES WITH THE GRAFTON PUBLIC SAFETY AUTHORITIES. AMPLIFIED DISTRIBUTION OF PUBLIC SAFETY FREQUENCIES SHALL BE OPERATIONAL AT SUBSTANTIAL COMPLETION OF THE PROJECT.
6. PROVIDE ADEQUATE RACK SPACE FOR FUTURE CELLULAR CARRIER BI-DIRECTIONAL AMPLIFIERS. OWNER SHALL BE RESPONSIBLE FOR SELECTING AND NEGOTIATION WITH CELLULAR CARRIER.



**1 FIRE ALARM RISER DIAGRAM**  
 E4.0 N.T.S.

- NOTES**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C., INSTALLED BY HVAC.
  - TYPICALLY FIRE ALARM SYSTEM SIGNAL CONDUCTORS SHALL BE #14 AWG MINIMUM, TYPE THHN SOLID. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. MC CABLE IS ALLOWED WHERE CONCEALED AND ALLOWED BY CODE.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED SO THAT THE SPEAKER/STROBES CAN BE SILENCED SIMULTANEOUSLY.
  - ALL SPEAKER/STROBES WITHIN ALL CLASSROOMS - SHALL BE MULTI-TAPPED TYPE. E.C. SHALL OWN /IB AJUSTING DURING FIRE DEPARTMENT TESTS.
  - ALL SPEAKER/STROBES SHALL BE MOUNTED IN ACCORDANCE WITH ADA ROOM SPACING ALLOCATION TABLES FOR VISUAL SIGNALING DEVICES.
  - PROVIDE CONTROL MODULES TO OVERRIDE MAGLOCKS FOR CARD ACCESS. REFER TO SECURITY FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES.
  - ALL DEVICES SHALL BE LABELED WITH CLEAR TAPE WITH BLACK INK. LABEL SHALL IDENTIFY LOOP# AND DEVICE NUMBER.
  - ALL REMOTE TEST STATIONS SHALL BE KEYED AND MOUNTED ADJACENT TO FACP OR AS DIRECTED BY LOCAL FIRE DEPT. LABEL EACH UNIT.
  - PULL STATIONS SHALL BE DOUBLE ACTION. PROVIDE TAMPER RESISTANT PLASTIC COVERS WITH LOCAL BUZZER ON ALL PULL STATIONS.
  - AV DEVICES SHALL NOT BE INSTALLED WITHIN CHALK BOARDS. COORDINATE EXACT LOCATION OF ALL AV DEVICES W/ARCH. PRIOR TO INSTALLING.
  - ALL TAMPER AND SUPERVISORY SWITCHES SHALL BE WIRED AS LOCAL SUPERVISORY ALARM CONDITION UPON ACTIVATION. TROUBLE OR SUPERVISORY SHALL BE SELF RESTORING. TRANSMIT SIGNAL TO FIRE DEPT. BUT DO NOT ALARM BUILDING.
  - PRIOR TO SUBMITTING SHOP DRAWINGS, COORDINATE WITH LOCAL FIRE DEPT. FOR EXACT REQUIREMENTS. OBTAIN FIRE PREVENTION RULES AND REGULATIONS WHEN AVAILABLE AND COMPLY IN FULL.
  - COORDINATE WITH SELECTED SYSTEM MANUFACTURER FOR WIRING REQUIREMENTS.
  - ALL DETECTION & SIGNAL WIRING SHALL BE CLASS 'A'.
  - SUBMIT AS PART OF SHOP DRAWINGS COMPLETE FLOOR PLANS & RISERS WITH ALL DEVICES SHOWN AND WITH DEVICE ADDRESSES.
  - PROVIDE ISOLATION MODULE FOR EVERY 25 DEVICES, TYPICAL.
  - DUCT TYPE SMOKE DETECTORS SHALL REPORT AS GENERAL ALARM. PER LOCAL FIRE DEPARTMENTS REQUIREMENTS CONFIRM WITH FIRE DEPARTMENT.
  - ALL STAIRWELL DOORS THAT CONTAIN ELECTRIC ACCESS CONTROL LOCKS SHALL BE SUPPLIED WITH CONTROL MODULE TO RELEASE UPON GENERAL FIRE ALARM.

LOOP NUMBER	ADDRESSABLE LOOP SCHEDULE
1	GROUND FLOOR - A,B,C,F
2	FIRST FLOOR - A,B,C
3	FIRST FLOOR - D,E,F
4	SECOND FLOOR - A,B,C
5	SECOND FLOOR - D,E,F
6	SPARE
7	SPARE
8	SPARE
9	SPARE
10	SPARE

MAXIMUM ROOM SIZE	MAXIMUM LENS HEIGHT	MINIMUM REQUIRED LIGHT OUTPUT (EFFECTIVE INTENSITY) : ONE LIGHT (cd)
20' x 20'	10	15
30' x 30'	10	30
40' x 40'	10	60
44' x 44'	10	75
50' x 50'	10	95
55' x 55'	10	115
59' x 59'	10	135
63' x 63'	10	150
68' x 68'	10	177
70' x 70'	10	185
20' x 20'	20	30
30' x 30'	20	45
40' x 40'	20	75
44' x 44'	20	80
50' x 50'	20	95
53' x 53'	20	110
55' x 55'	20	115
59' x 59'	20	135
63' x 63'	20	150
68' x 68'	20	177
70' x 70'	20	185
20' x 20'	30	55
30' x 30'	30	75
50' x 50'	30	95
53' x 53'	30	110
55' x 55'	30	115
59' x 59'	30	135
63' x 63'	30	150
68' x 68'	30	177
70' x 70'	30	185

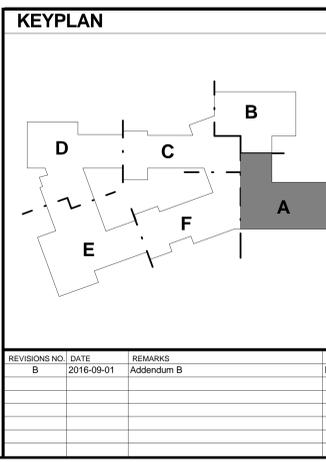
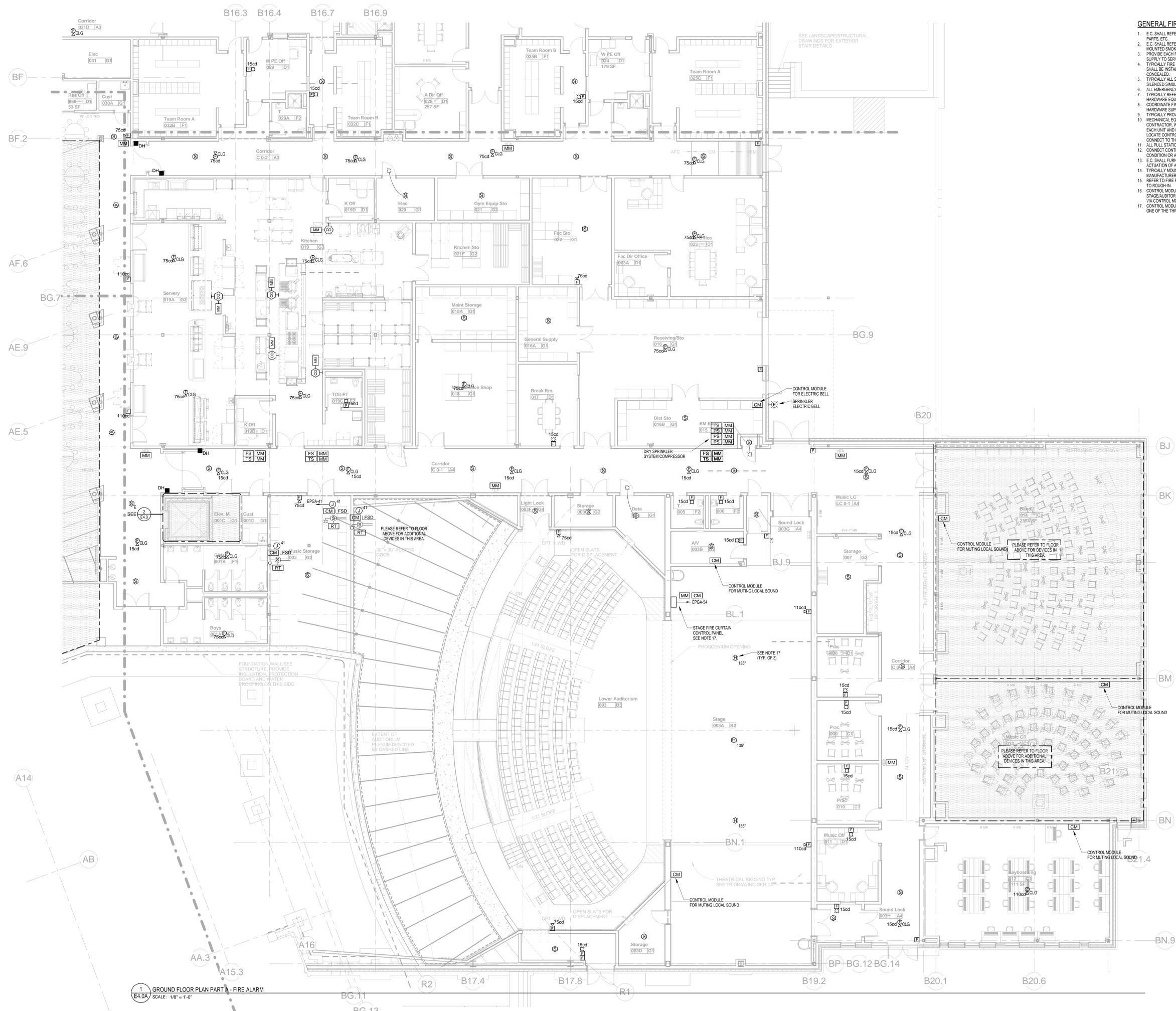
MAXIMUM ROOM SIZE	MINIMUM REQUIRED LIGHT OUTPUT EFFECTIVE INTENSITY (cd)		
	ONE LIGHT PER ROOM (CEILING HEIGHT)	TWO LIGHTS PER ROOM (LOCATED ON OPPOSITE WALLS)	FOUR LIGHTS PER ROOM ONE LIGHT PER WALLS
20' x 20'	15	NA	NA
28' x 28'	30	NA	NA
30' x 30'	34	UNKNOWN	NA
40' x 40'	60	15	15
45' x 45'	75	UNKNOWN	19
50' x 50'	94	60	30
54' x 54'	110	UNKNOWN	30
55' x 55'	115	UNKNOWN	28
60' x 60'	135	95	30
63' x 63'	150	UNKNOWN	37
68' x 68'	177	150	43
70' x 70'	184	184	95
80' x 80'	240	135	60
90' x 90'	304	185	95
100' x 100'	375	240	95
110' x 110'	455	240	135
120' x 120'	540	305	135
130' x 130'	635	375	185

**2 ELEVATOR SHAFT AND MACHINE ROOM (NO SPRINKLER) DETAIL**  
 E4.0 N.T.S.

REVISIONS NO.	DATE	REMARKS	BY	DATE



- GENERAL FIRE ALARM NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. SMOKE DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
  - PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
  - ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
  - TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT, MOTORIZED FIRE-SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
  - ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTIVATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGHING.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPLUSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTIVATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



1 GROUND FLOOR PLAN PART A - FIRE ALARM  
E4.0A SCALE: 1/8" = 1'-0"

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**GENERAL FIRE ALARM NOTES:**

- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
- E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DETECTORS FURNISHED AND WIRED BY E.C., INSTALLED BY HVAC.
- PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
- TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
- TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
- ALL EMERGENCY ROOMS ARE 20 HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
- TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
- COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
- TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
- MECHANICAL EQUIPMENT, MOTORIZED FIRESMOKE DAMPER, FURNISHED & INSTALLED BY HVAC CONTRACTOR, WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
- ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
- CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
- E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
- TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
- REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
- CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
- CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.

FOR ADDITIONAL DEVICES IN THIS AREA  
PLEASE REFER TO FLOOR ABOVE.

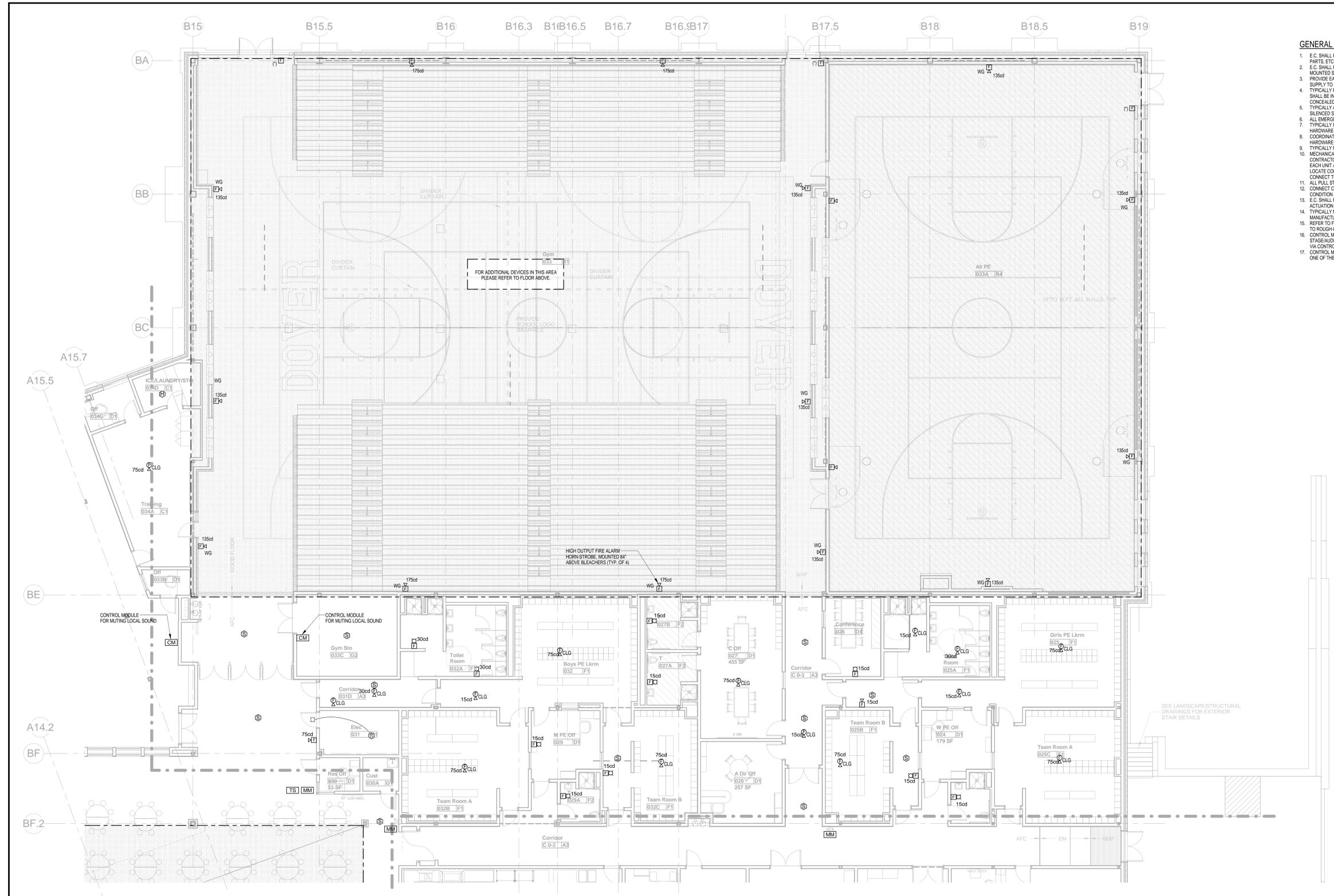
HIGH OUTPUT FIRE ALARM  
HORN/STROBE MOUNTED BY  
ABOVE BLEACHERS (TYP. OF 4)

SEE LANDSCAPE/STRUCTURAL  
DRAWINGS FOR EXTERIOR  
STAIR DETAILS

**1** GROUND FLOOR PLAN PART B - FIRE ALARM  
SCALE: 1/8" = 1'-0"

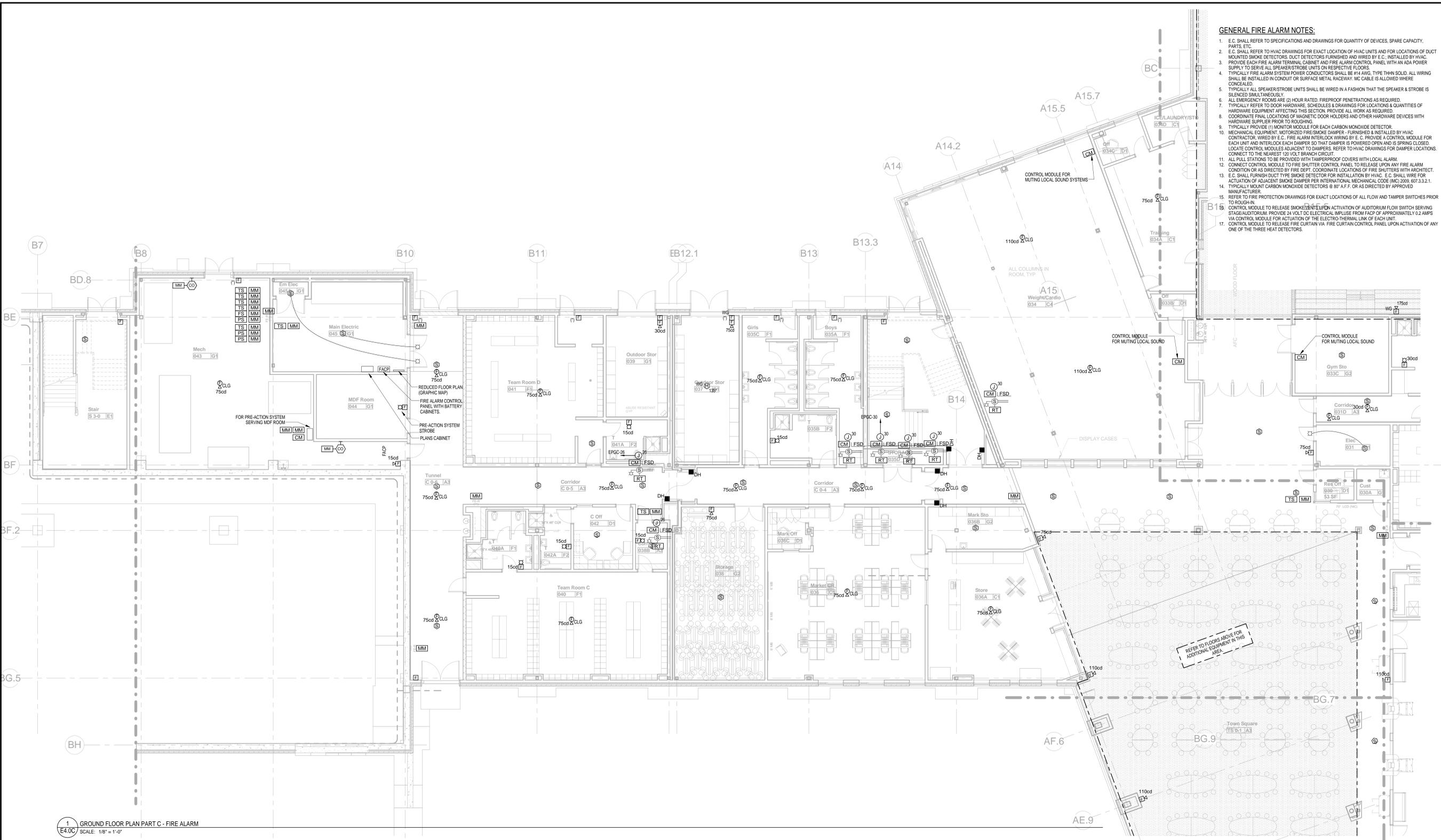
**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY

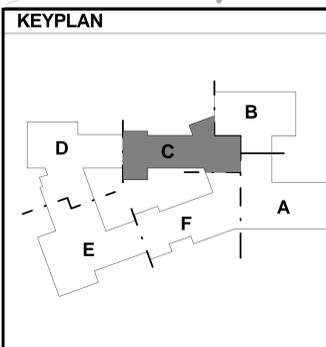




- GENERAL FIRE ALARM NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC CONTRACTOR. PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
  - ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
  - TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT, MOTORIZED FIRE SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
  - ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009 607.3.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGHING.
  - CONTROL MODULE TO RELEASE SMOKEVENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



1  
E4.0C  
GROUND FLOOR PLAN PART C - FIRE ALARM  
SCALE: 1/8" = 1'-0"

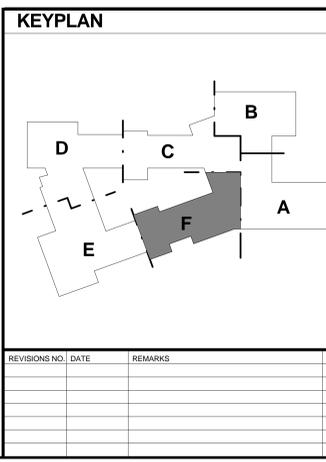
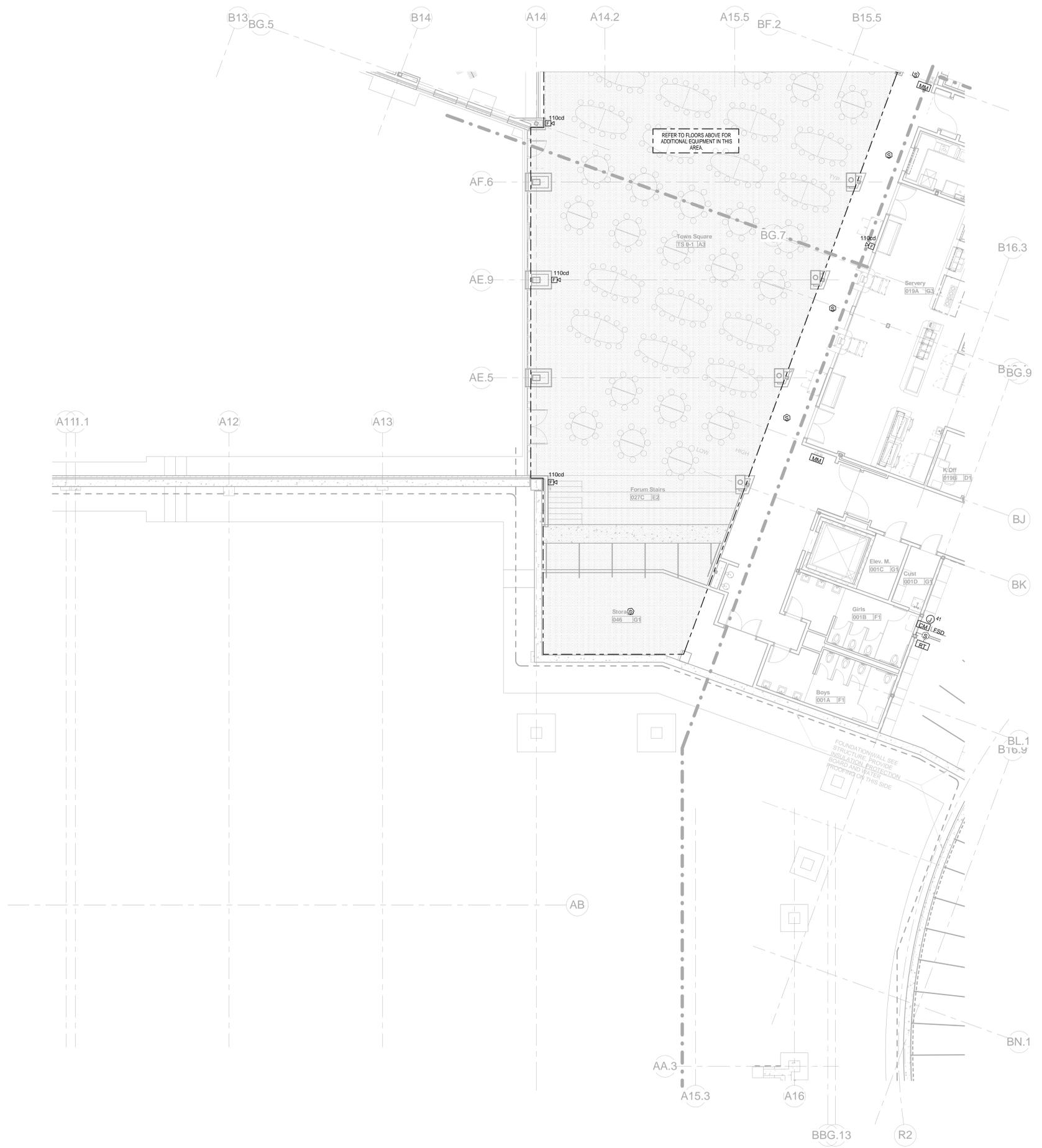


REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B



**GENERAL FIRE ALARM NOTES:**

1. E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARS, ETC.
2. E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
3. PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
4. TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
5. TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
6. ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
7. TYPICALLY REFER TO DOOR HARDWARE SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
8. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
9. TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
10. MECHANICAL EQUIPMENT: MOTORIZED FIRESMOKE DAMPER, FURNISHED & INSTALLED BY HVAC CONTRACTOR, WIRED BY E.C. FIRE ALARM INTERLOCK WIRED BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
11. ALL FULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
12. CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
13. E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
14. TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 80' A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
15. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
16. CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPLUSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
17. CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.

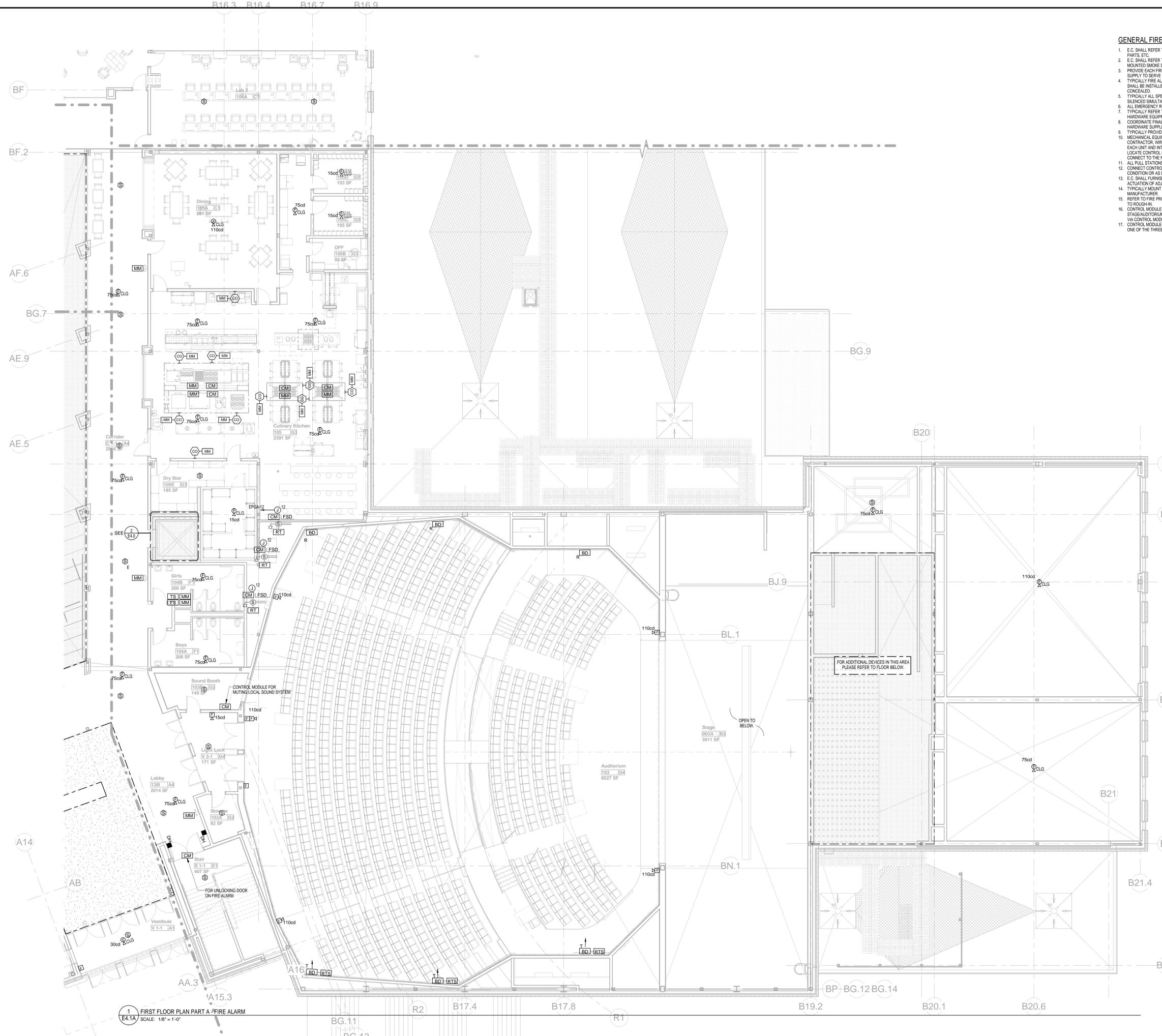


1  
E4.0F GROUND FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"



GENERAL FIRE ALARM NOTES:

- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
- E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C., INSTALLED BY HVAC CONTRACTOR.
- PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
- TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. NO CABLE IS ALLOWED WHERE CONCEALED.
- TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
- ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
- TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
- COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
- TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
- MECHANICAL EQUIPMENT, MOTORIZED FIRESMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
- ALL FULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
- CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
- E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTIVATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
- TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
- REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGHING.
- CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL INFLUX FROM FACTORY APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTIVATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
- CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



FOR ADDITIONAL DEVICES IN THIS AREA PLEASE REFER TO FLOOR BELOW.

Stage  
603A 162  
3011 SF  
OPEN TO BELOW

**KEYPLAN**

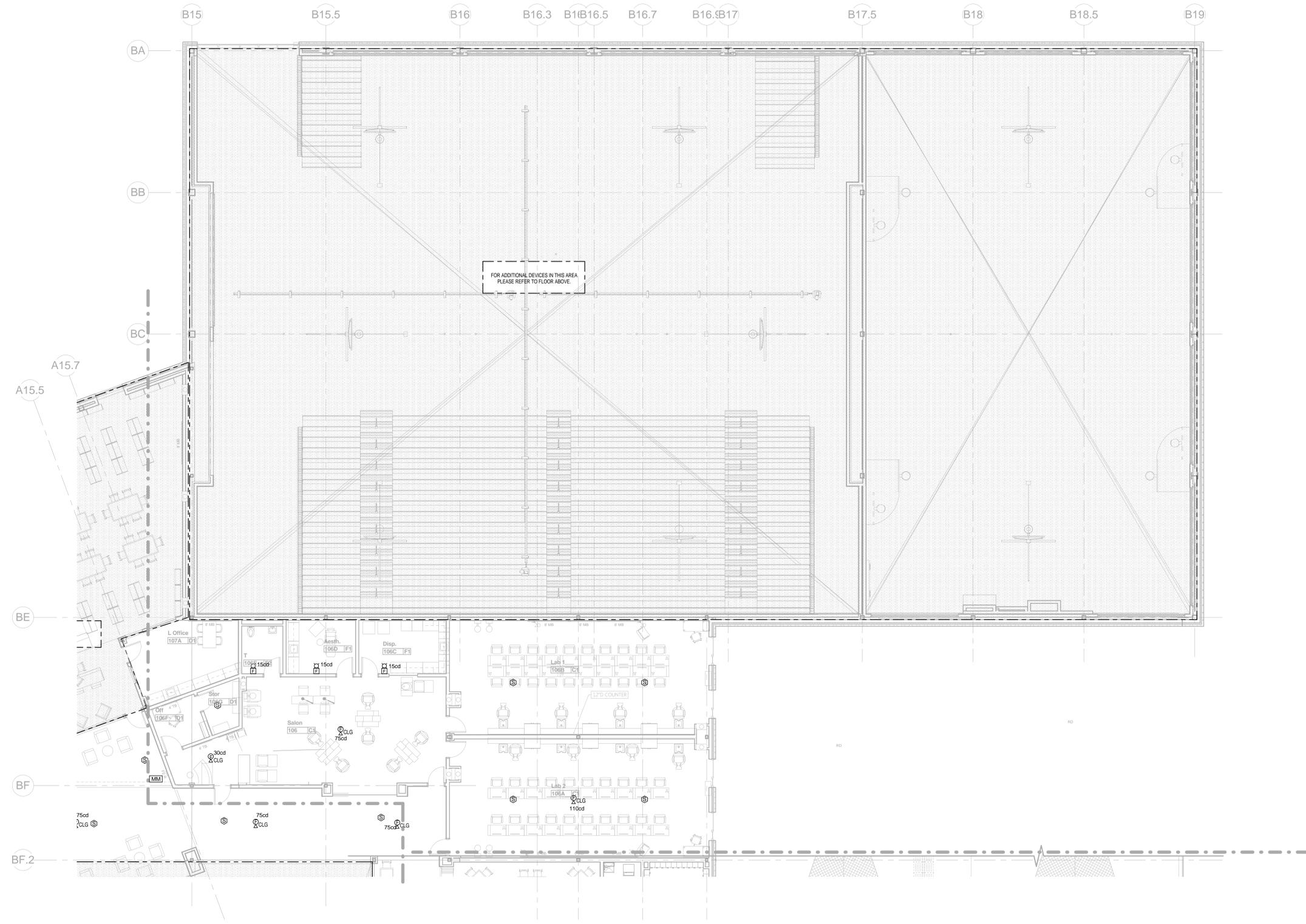
REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

1 FIRST FLOOR PLAN PART A - FIRE ALARM  
E4.1A SCALE: 1/8" = 1'-0"



**GENERAL FIRE ALARM NOTES:**

- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
- E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
- PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
- TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
- TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
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- COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGH-IN.
- TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
- MECHANICAL EQUIPMENT, MOTORIZED FIRE SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
- ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
- CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
- E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTIVATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009: 907.3.3.2.1.
- TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
- REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
- CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL INFLUENCE FROM FACT OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
- CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



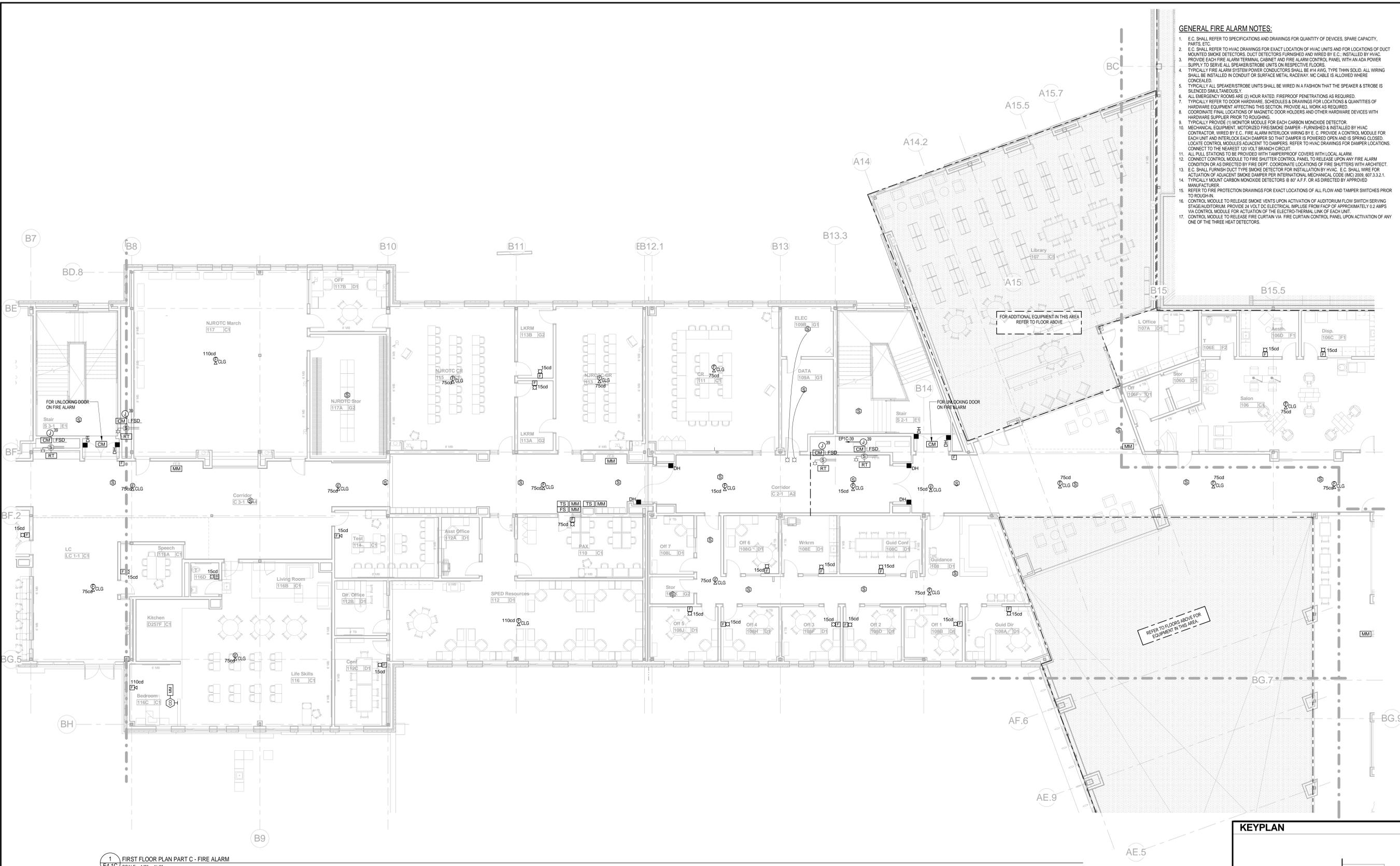
**1**  
**E4.1B** FIRST FLOOR PLAN PART B - FIRE ALARM  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY



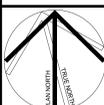
- GENERAL FIRE ALARM NOTES:**
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  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C., INSTALLED BY HVAC CONTRACTOR.
  - PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVICE ALL SPEAKER-STROBE UNITS ON RESPECTIVE FLOORS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
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  - TYPICALLY REFER TO DOOR HARDWARE SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGH-IN.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT, MOTORIZED FIRE SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
  - ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 807.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS 8' BY 8' F.O.B. AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL INFLUX FROM FACE OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



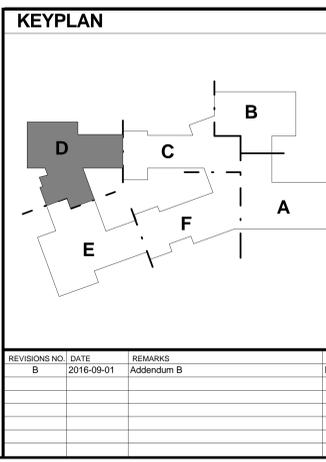
1 FIRST FLOOR PLAN PART C - FIRE ALARM  
E4.1C SCALE: 1/8" = 1'-0"

**KEYPLAN**

REVISIONS NO.	DATE	REMARKS	BY
B	2016-09-01	Addendum B	B

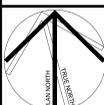


- GENERAL FIRE ALARM NOTES:**
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  - CONNECT CONTROL MODULE TO FIRE SPLITTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SPLITTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTIVATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8'0" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTIVATION OF THE ELECTROTHERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



**1** FIRST FLOOR PLAN PART D - FIRE ALARM  
E4.1D / SCALE: 1/8" = 1'-0"





**GENERAL FIRE ALARM NOTES:**

1. E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
2. E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
3. PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
4. TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG TYPE THIN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
5. TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
6. ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
7. TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
8. COORDINATE FINAL LOCATIONS OF WIGGOTS TO DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
9. TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
10. MECHANICAL EQUIPMENT (MOTORIZED FIRE SMOKE DAMPER, FURNISHED & INSTALLED BY HVAC CONTRACTOR, WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
11. ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
12. CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
13. E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009.607.3.3.2.1.
14. TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8' A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
15. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGHING.
16. CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
17. CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.

REFER TO FLOORS ABOVE FOR EQUIPMENT IN THIS AREA.

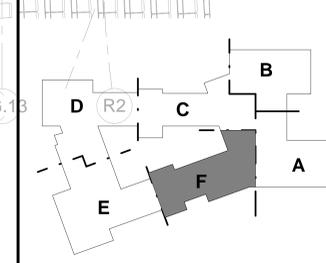
FOR ADDITIONAL DEVICES IN THIS AREA REFER TO FLOOR ABOVE.

GENERATOR REMOTE ANNUNCIATOR

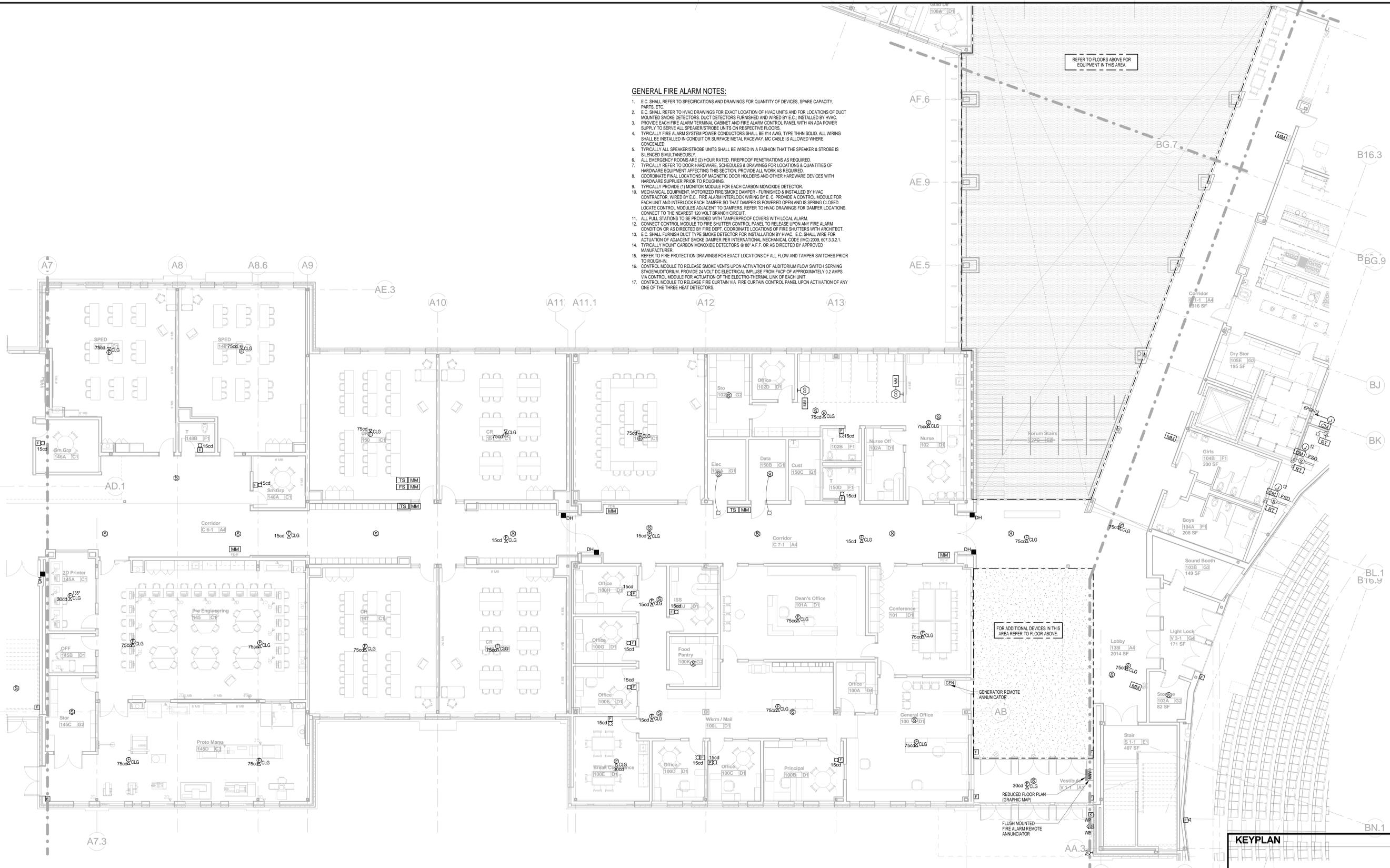
3000 2' CLG  
REDUCED FLOOR PLAN (GRAPHIC MAP)

FLUSH MOUNTED FIRE ALARM REMOTE ANNUNCIATOR

**KEYPLAN**



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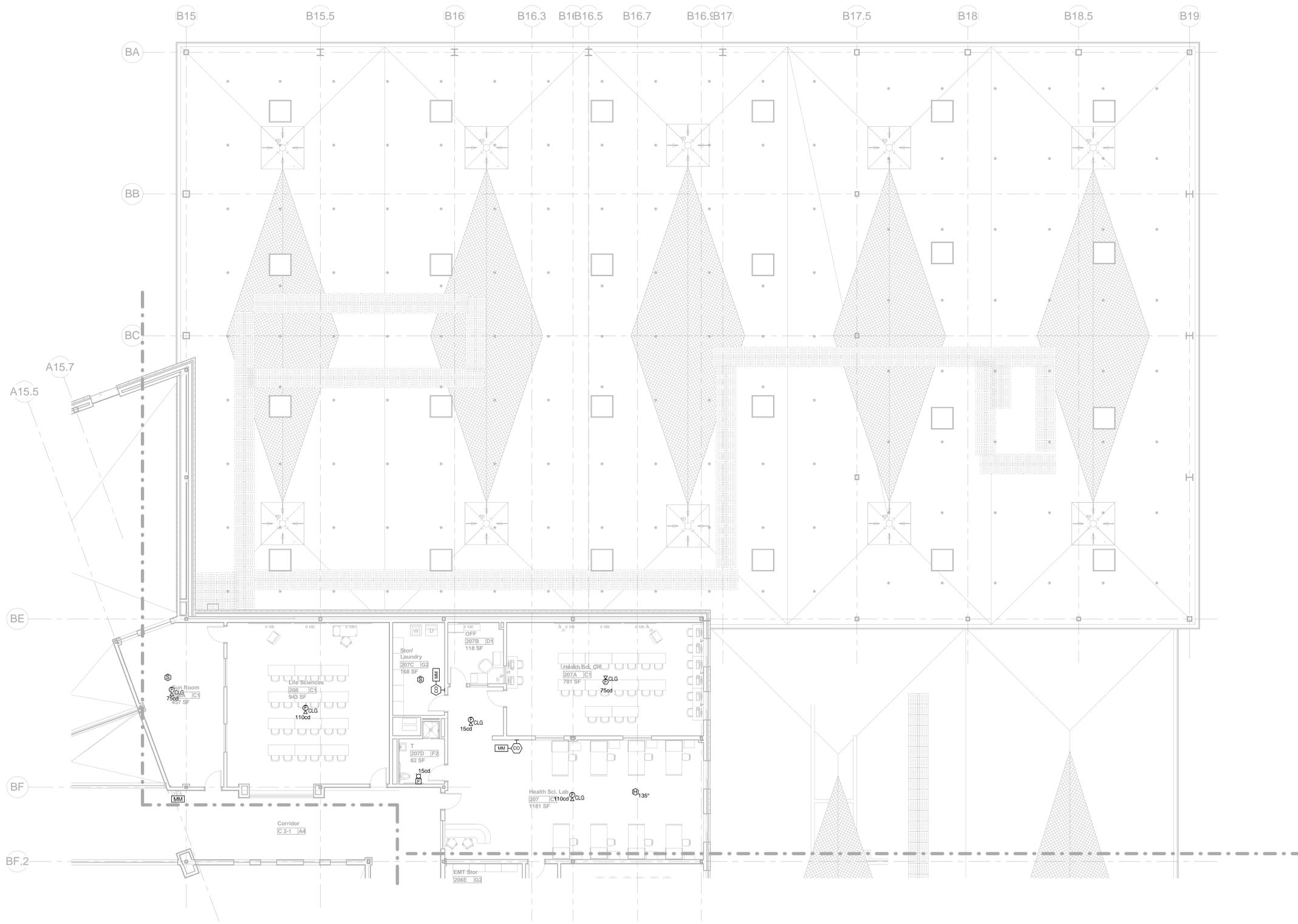


1 FIRST FLOOR PLAN PART F - FIRE ALARM  
E4.1F SCALE: 1/8" = 1'-0"





- GENERAL FIRE ALARM NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C., INSTALLED BY HVAC.
  - PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
  - ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
  - TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT, MOTORIZED FIRE/SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
  - ALL FLOOR STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT. E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009 607.3.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8' A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPLUSE FROM FAC-DC APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTROTHERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.

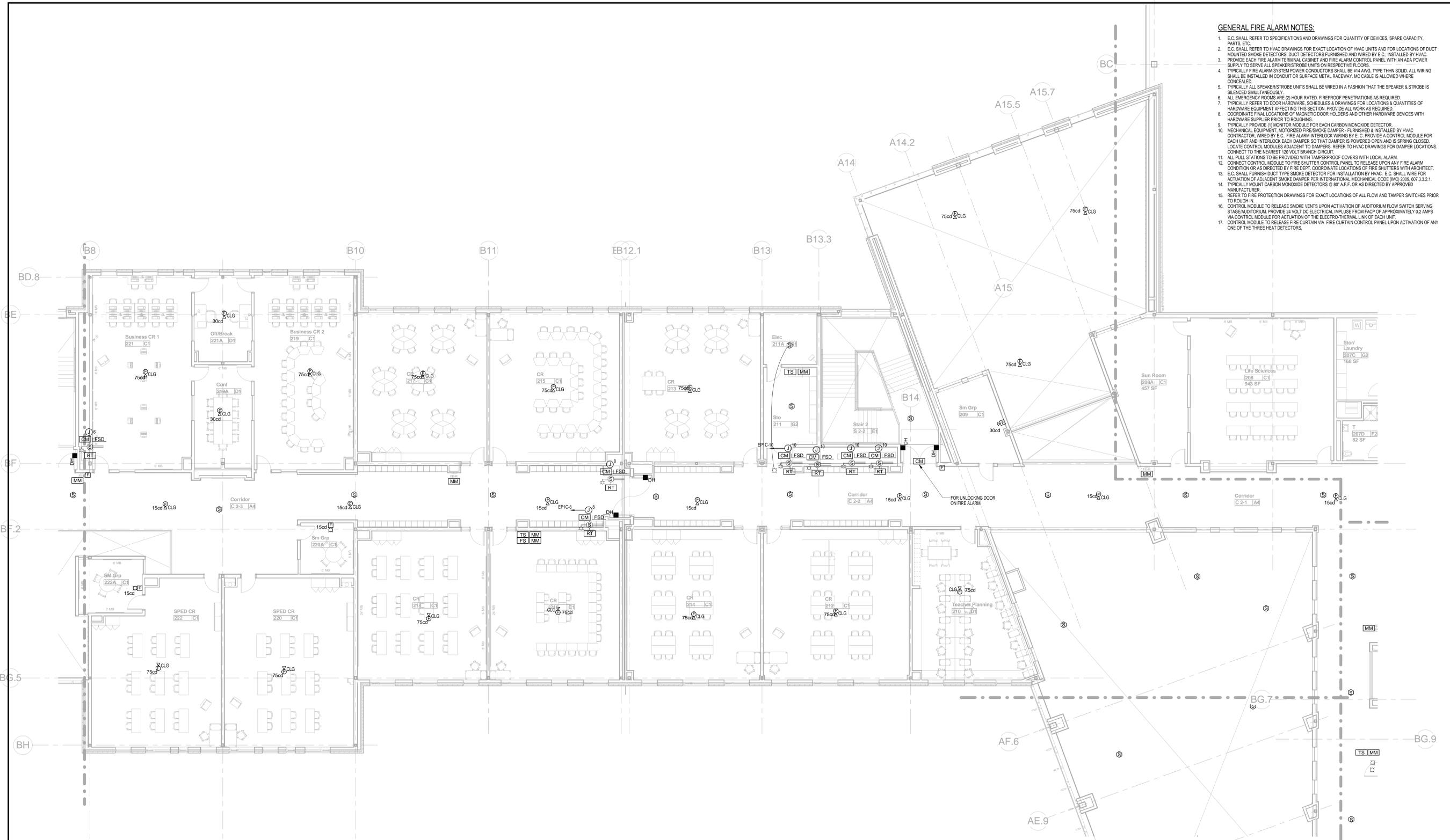


1 SECOND FLOOR PLAN PART B - FIRE ALARM  
E4.2B SCALE: 1/8" = 1'-0"

**KEYPLAN**

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- GENERAL FIRE ALARM NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
  - PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. NO CABLES ALLOWED WHERE CONCEALED.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
  - ALL EMERGENCY ROOMS ARE (2) HOUR RATED, FIREPROOF PENETRATIONS AS REQUIRED.
  - TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT, MOTORIZED FIRE-SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
  - ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL. TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009 607.3.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8' A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTIVATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



**1 SECOND FLOOR PLAN PART C - FIRE ALARM**  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

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**E4.2C**



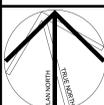
- GENERAL FIRE ALARM NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
  - E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS.
  - TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. NO CABLE IS ALLOWED WHERE CONCEALED.
  - TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
  - ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
  - TYPICALLY REFER TO DOOR HARDWARE SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
  - COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO TOUGHING.
  - TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
  - MECHANICAL EQUIPMENT (MOTORIZED FIRE/SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR, WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS.
  - ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
  - CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
  - E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
  - TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 80" A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
  - REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO TOUGHING.
  - CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPLUSE FROM FACILITY APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
  - CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



1 SECOND FLOOR PLAN PART D - FIRE ALARM  
E4.2D SCALE: 1/8" = 1'-0"

**KEYPLAN**

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**GENERAL FIRE ALARM NOTES:**

- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
- E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
- PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
- TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
- TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SELECTED SIMULTANEOUSLY.
- ALL EMERGENCY ROOMS ARE (2) HOUR RATED FIREPROOF PENETRATIONS AS REQUIRED.
- TYPICALLY REFER TO DOOR HARDWARE, SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
- COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
- TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
- MECHANICAL EQUIPMENT, MOTORIZED FIRE/SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR, WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
- ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
- CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL. TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT. E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTUATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009, 607.3.3.2.1.
- TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 8' AFF. OR AS DIRECTED BY APPROVED MANUFACTURER.
- REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGHING.
- CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT DC ELECTRICAL IMPULSE FROM FACP OF APPROXIMATELY 0.2 AMPS VIA CONTROL MODULE FOR ACTUATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
- CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



**KEYPLAN**

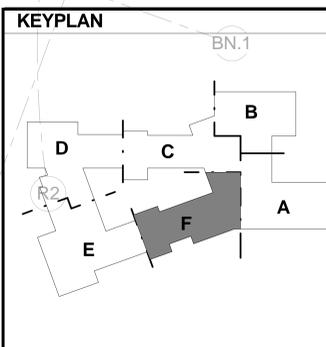
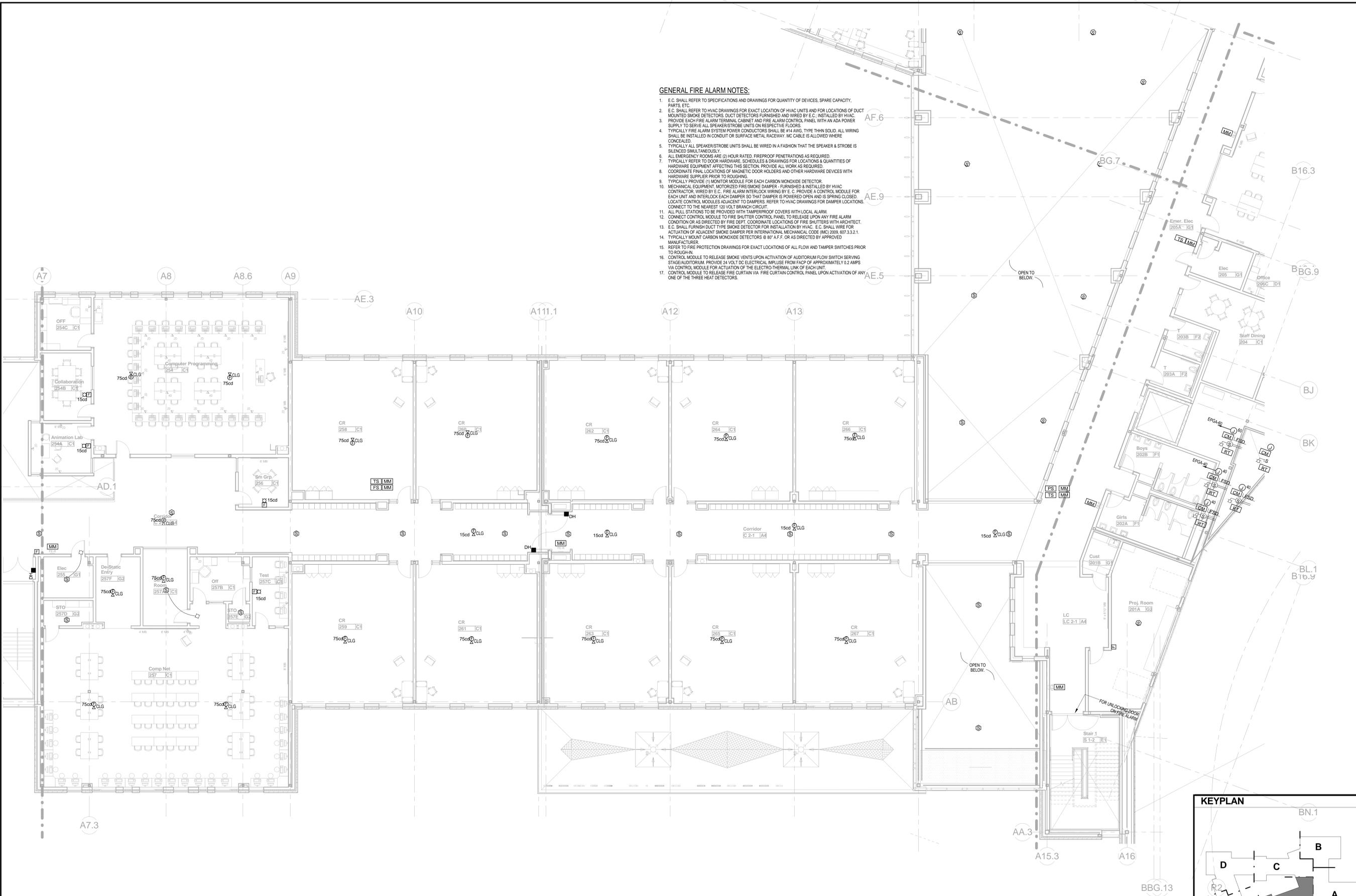
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1 SECOND FLOOR PLAN PART E - FIRE ALARM  
E4.2E SCALE: 1/8" = 1'-0"



**GENERAL FIRE ALARM NOTES:**

1. E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC.
2. E.C. SHALL REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF HVAC UNITS AND FOR LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS. DUCT DETECTORS FURNISHED AND WIRED BY E.C. INSTALLED BY HVAC.
3. PROVIDE EACH FIRE ALARM TERMINAL CABINET AND FIRE ALARM CONTROL PANEL WITH AN ADA POWER SUPPLY TO SERVE ALL SPEAKER/STROBE UNITS ON RESPECTIVE FLOORS.
4. TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SURFACE METAL RACEWAY. MC CABLE IS ALLOWED WHERE CONCEALED.
5. TYPICALLY ALL SPEAKER/STROBE UNITS SHALL BE WIRED IN A FASHION THAT THE SPEAKER & STROBE IS SILENCED SIMULTANEOUSLY.
6. ALL EMERGENCY ROOMS ARE (2) HOUR RATED. FIREPROOF PENETRATIONS AS REQUIRED.
7. TYPICALLY REFER TO DOOR HARDWARE SCHEDULES & DRAWINGS FOR LOCATIONS & QUANTITIES OF HARDWARE EQUIPMENT AFFECTING THIS SECTION. PROVIDE ALL WORK AS REQUIRED.
8. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
9. TYPICALLY PROVIDE (1) MONITOR MODULE FOR EACH CARBON MONOXIDE DETECTOR.
10. MECHANICAL EQUIPMENT, MOTORIZED FIRE SMOKE DAMPER - FURNISHED & INSTALLED BY HVAC CONTRACTOR. WIRED BY E.C. FIRE ALARM INTERLOCK WIRING BY E.C. PROVIDE A CONTROL MODULE FOR EACH UNIT AND INTERLOCK EACH DAMPER SO THAT DAMPER IS POWERED OPEN AND IS SPRING CLOSED. LOCATE CONTROL MODULES ADJACENT TO DAMPERS. REFER TO HVAC DRAWINGS FOR DAMPER LOCATIONS. CONNECT TO THE NEAREST 120 VOLT BRANCH CIRCUIT.
11. ALL PULL STATIONS TO BE PROVIDED WITH TAMPERPROOF COVERS WITH LOCAL ALARM.
12. CONNECT CONTROL MODULE TO FIRE SHUTTER CONTROL PANEL TO RELEASE UPON ANY FIRE ALARM CONDITION OR AS DIRECTED BY FIRE DEPT. COORDINATE LOCATIONS OF FIRE SHUTTERS WITH ARCHITECT.
13. E.C. SHALL FURNISH DUCT TYPE SMOKE DETECTOR FOR INSTALLATION BY HVAC. E.C. SHALL WIRE FOR ACTIVATION OF ADJACENT SMOKE DAMPER PER INTERNATIONAL MECHANICAL CODE (IMC) 2009 607.3.3.2.1.
14. TYPICALLY MOUNT CARBON MONOXIDE DETECTORS @ 90' A.F.F. OR AS DIRECTED BY APPROVED MANUFACTURER.
15. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATIONS OF ALL FLOW AND TAMPER SWITCHES PRIOR TO ROUGH-IN.
16. CONTROL MODULE TO RELEASE SMOKE VENTS UPON ACTIVATION OF AUDITORIUM FLOW SWITCH SERVING STAGE/AUDITORIUM. PROVIDE 24 VOLT ELECTRICAL INPUTS FROM TOP OF APPROXIMATELY 1/2 AMPS VIA CONTROL MODULE FOR ACTIVATION OF THE ELECTRO-THERMAL LINK OF EACH UNIT.
17. CONTROL MODULE TO RELEASE FIRE CURTAIN VIA FIRE CURTAIN CONTROL PANEL UPON ACTIVATION OF ANY ONE OF THE THREE HEAT DETECTORS.



1  
E4.2F  
SECOND FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"

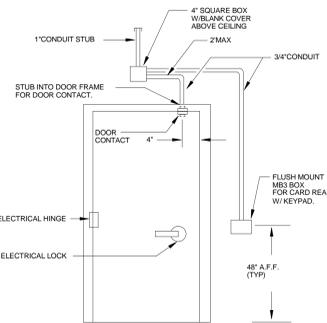
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**SYMBOL LIST**

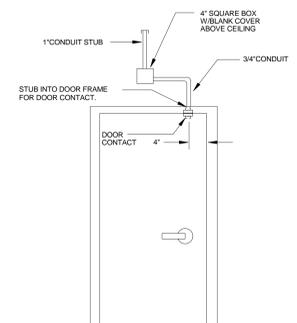
**LEGEND NOTES:**  
 A. THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT. ALL EQUIPMENT IS TO BE PROVIDED UNDER THIS SECTION UNLESS SPECIFICALLY INDICATED OTHERWISE.

**SECURITY SYSTEM**

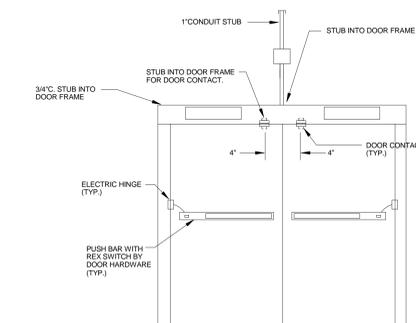
- DOME IP CAMERA E.C. TO PROVIDE SINGLE GANG OPENING AND 4"SQ.X2 1/2"DP. J.B. & 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE ABOVE CEILING SPACE AT EACH LOCATION. WP = WEATHERPROOF AND HAVE INFRARED ILLUMINATOR PTZ = PAN/TILT/ZOOM
- INTRUSION ALARM LCD KEYPAD SINGLE GANG BOX AT 48" A.F.F., 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- POWER SUPPLY FOR ELECTRIFIED HARDWARE FURNISHED BY DOOR HARDWARE CONTRACTOR. INSTALLED & WIRED BY E.C. 120VAC EMERGENCY BY E.C. INTERFACE WIRING BY E.C.
- REQUEST TO EXIT PANIC DEVICE SHALL BE CRASH BAR W/BUILT IN MICROSWITCH. CRASH BAR FURNISHED AND INSTALLED BY DOOR HARDWARE CONTRACTOR AND WIRED BY E.C. PROVIDE 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- DOOR POSITION SWITCH - GE/SENTRON 1078DB DOUBLE POLE DEVICE ONE POLE TO ACCESS CONTROL. SECOND POLE TO INTRUSION. COORDINATE HOLE WITH DOOR HARDWARE. PROVIDE 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- HID CLASS SE RK40 COMBINATION ICLASS READER AND KEYPAD AT 48" A.F.F., CUSTOM BACK BOX. FURNISHED AND INSTALL BY E.C. 3/4" CONDUIT W/PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- EYE WASH FOW SWITH-F&B BY PLUMBING CONTRACTOR WIRED TO SECURITY SYSTEM BY E.C. SINGLE GANG BOX, 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- ADDRESSABLE INPUT MODULE - SEE ONE LINE FOR REQUIRED ADDRESSING - EACH DEVICE COMES WITH THE APPROPRIATE EOL RESISTOR. DOES NOT REQ BACK BOX
- MOTION SENSOR - WALL MOUNTED 6" BELOW CEILING SINGLE GANG BACK BOX W/3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C. WIRING BY E.C.
- MOTION SENSOR - CEILING MOUNTED, 360° SINGLE GANG BACK BOX AND 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C. WIRING BY E.C.
- MOTION SENSOR - CORNER MOUNTED FOR 30° PATTERN SINGLE GANG BACK BOX AND 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C. WIRING BY E.C.
- MOTION SENSOR - FOR LONG RANGE, CEILING MOUNTED SINGLE GANG BACK BOX AND 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C. WIRING BY E.C.
- MOTION SENSOR - FOR 360° PATTERN SINGLE GANG BACK BOX AND 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C. WIRING BY E.C.
- INTRUSION ALARM CONTROL PANEL WITH BUILT IN DIGITAL COMMUNICATOR DSC MAXSYS PC4020 SERIES. REQUIRES 120VAC. INTERFACE TO ACCESS CONTROL AND TELEPHONE CONNECTION TO POD WITH BATTERIES BY E.C.
- BLUE SECURITY ALARM BEACON, WEATHERPROOF, PROVIDED BY E.C. SINGLE GANG BOX, 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- SECURITY PANIC BUTTON, PROVIDED BY E.C. SINGLE GANG BOX, 3/4" CONDUIT & PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- INTEGRATED ELECTRONIC SAFETY & SECURITY SYSTEM HEADEND
- WALL MOUNTED ACCESS CONTROLLER. E.C. SHALL PROVIDE 20A EMERGENCY CIRCUIT AND DOUBLE DUPLEX RECEPTACLE. (SEE SPECS)
- RACK MOUNTED MONITOR AND KVM SWITCH
- ACCESS CONTROL SYSTEM SERVER RACK MOUNT. E.C. SHALL PROVIDE 20A EMERGENCY CIRCUIT AND DOUBLE DUPLEX RECEPTACLE. (SEE SPECIFICATIONS)
- 42" LCD CCTV COLOR MONITOR W/ WALL/CEILING MOUNT BRACKET BY E.C. E.C. TO PROVIDE 120 VAC EMERGENCY POWER RECEPTACLE, & 3/4" CONDUIT IN SINGLE GANG BOX W/ PULL STRING. MOUNT OUTLET AND BOX AT 96" A.F.F. U.N.O.
- ELECTRIC HINGE OR ELECTRONIC POWER TRANSFER BETWEEN DOOR AND FRAME. FURNISHED AND INSTALLED BY DOOR HARDWARE CONTRACTOR (SEE DOOR HARDWARE SECTIONS FOR DETAILS). WIRED BY E.C. 4"SQ.X2 1/2"DP. J.B. WITH 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- ELECTRIC LOCK FURNISHED AND INSTALLED BY HARDWARE CONTRACTOR. WIRED BY E.C. 4"SQ.X2 1/2"DP. J.B. WITH 3/4" CONDUIT W/ PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- 4" SQ. DOOR JUNCTION BOX BY E.C.
- SECURITY MONITOR MODULE
- RACK MOUNTED UNINTERRUPTIBLE POWER SUPPLY
- EXTERIOR DOOR VIDEO INTERCOM STATION BY E.C. INTERFACE TO INTERCOM SYSTEM TO ALLOW FOR RECORDING. CAMERA CALL-UP IF EXTERIOR INTERCOM STATIONS ARE ACTIVATED. COORDINATE AS REQUIRED WITH SUPPLIER. DUAL GANG BOX, 3/4" CONDUIT & PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.
- DOOR INTERCOM MASTER STATION, PROVIDED BY E.C. SINGLE GANG BOX, 3/4" CONDUIT & PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.



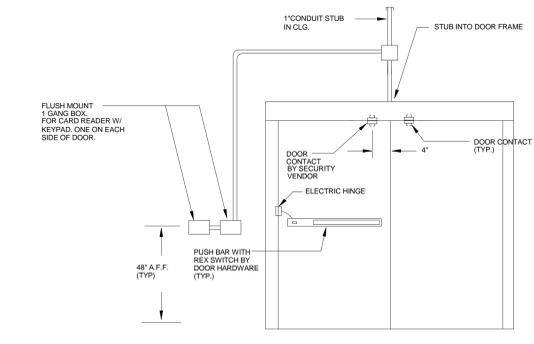
**1** TYPICAL DOOR WITH ACCESS CONTROL  
 E5.0 SCALE: N.T.S.



**2** TYPICAL DOOR WITHOUT ACCESS CONTROL  
 E5.0 SCALE: N.T.S.



**3** TYPICAL DOOR WITHOUT ACCESS CONTROL  
 E5.0 SCALE: N.T.S.

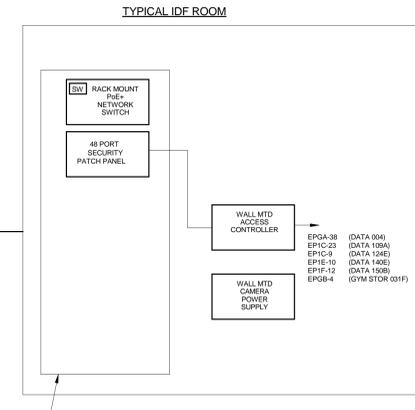
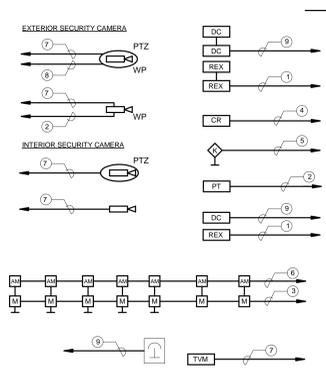


**4** TYPICAL EXTERIOR DOOR W/ ACCESS CONTROL  
 E5.0 SCALE: N.T.S.

**GENERAL NOTES**

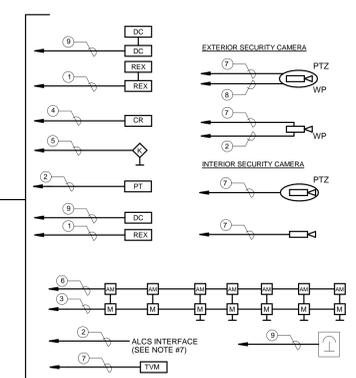
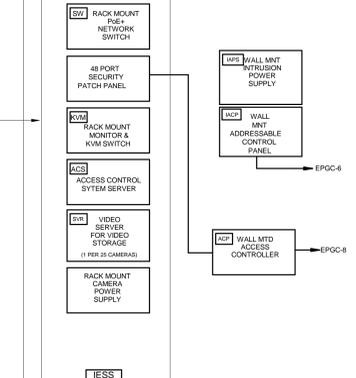
1. ALL HARDWARE SETS SHALL CONTAIN INTEGRAL REQUEST TO EXIT DEVICE. E.C. SHALL TIE INTO THESE DEVICES AND INSURE PROPER OPERATION.
2. ALL BOX, CONDUIT AND 120V WIRING PROVISIONS FOR SECURITY SYSTEM SHALL BE PROVIDED BY SECTION 26000. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF EQUIPMENT.
3. REFER TO FLOOR PLAN FOR PROPOSED LOCATIONS OF ALL EQUIPMENT.

**TYPICAL IDF ROOM**



TEL/DATA RACK COORDINATE LOCATION OF IESS EQUIPMENT WITH IT CONTRACTOR. PROVIDE ADEQUATE PDU'S POWER DISTRIBUTION UNITS TO PLUG INTO TWIST LOCK RECEPTACLES ON RACK ABOVE TO POWER RACK MTD SECURITY EQUIPMENT. MOUNT PDUS WITHIN RACK.

**MDF ROOM**



IESS RACK PROVIDE 4 POST ENCLOSED RACK WITH VENTILATION ENCLOSURE PROVIDE ADEQUATE PDU'S POWER DISTRIBUTION UNITS TO PLUG INTO TWIST LOCK RECEPTACLES ON RACK ABOVE TO POWER RACK MTD SECURITY EQUIPMENT. MOUNT PDUS WITHIN RACK.

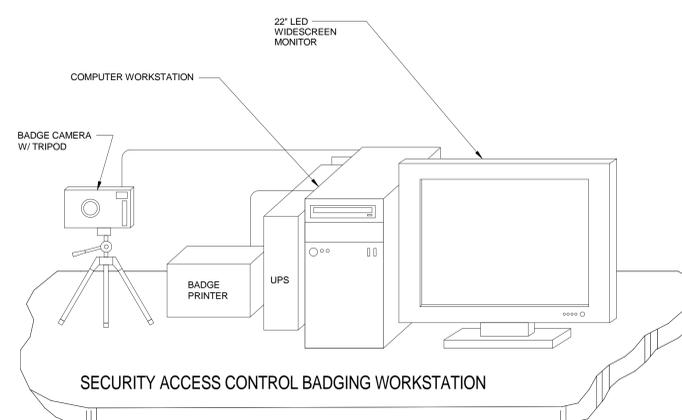
**5** INTEGRATED ELECTRONIC SECURITY SYSTEM PARTIAL RISER DIAGRAM  
 E5.0 SCALE: N.T.S.

**SECURITY SYSTEM NOTES**

1. LOCAL AREA NETWORK IS BY OTHERS. E.C. SHALL INTERFACE IESS TO NETWORK TO ALLOW ANY NETWORKED PC TO VIEW ALARM EVENTS, LIVE OR RECORDED VIDEO AND SYSTEM SCHEDULES. VIEWING SOFTWARE TO BE WEB-BASED. SYSTEMS THAT REQUIRE CLIENT SOFTWARE TO BE USED WILL NOT BE ACCEPTABLE.
2. ALL DOOR CONTACTS SHALL BE INDIVIDUALLY ADDRESSED AND ANNUNCIATED ON CONTROL PANEL.
3. TYPICALLY EXTERIOR CAMERA LOCATIONS FURNISH AND INSTALL DAY/NIGHT DOME CAMERAS WITH HEATER BLOWERS AT THESE LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. INTERFACE IESS TO INTERCOM SYSTEM TO ALLOW FOR RECORDING. CAMERA CALL-UP IF EXTERIOR INTERCOM STATIONS ARE ACTIVATED. COORDINATE AS REQUIRED WITH SUPPLIER.
5. PROVIDE DIGITAL COMMUNICATOR CONNECTION TO UL CENTRAL STATION. PROVIDE CONTACT ID FOR ALL POINTS TO MONITORING STATION. PROVIDE 1 YEAR MONITORING WITH CONTRACT.
6. PROVIDE FIRE ALARM INTERFACE. PROVIDE FIRE ALARM OVERRIDE AS REQUIRED. (2#18 GAUGE WIRES BY E.C.)
7. PROVIDE CONTACT CLOSURE INTERFACE TO AUTOMATED LIGHTING CONTROL SYSTEM (ALCS) VIA A SINGLE PAIR OF 2#18 CONDUCTORS. WHEN INTRUSION SYSTEM GOES INTO ALARM A SIGNAL SHALL BE ISSUED TO DIRECT THE ALCS TO TURN ALL INTERIOR AND EXTERIOR LIGHTING "ON".
8. PROVIDE INTEGRATION WITH FIRE ALARM SYSTEM TO RELEASE DOOR HOLDERS DURING LOCK DOWN AND ON A SCHEDULE.
9. INTEGRATE THE INTRUSION SYSTEM WITH THE ACCESS CONTROL SYSTEM SO THAT THE KEY FOB PRESENTED AT THE EXTERIOR CARD READER CAN DISARM THE COMMON ZONE, AND INTERIOR CARD READERS WILL DISARM THE ZONE THAT ARE ASSOCIATED WITH THEIR LOCATION. THE SYSTEM SHALL BE CAPABLE OF EIGHT (8) PARTITIONS.
10. INTEGRATE THE ACCESS CONTROL SYSTEM WITH THE BUILDING PAGING SYSTEM TO GIVE (2) DISTINCT INPUTS TO TONE GENERATOR (PART OF PAGING SYSTEM) FOR ALARMS TO BE SELECTED BY OWNER SUCH AS PANIC AND LOCK DOWN.
11. ALL WIRING SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUB-CONTRACTOR.
12. THE ACCESS CONTROL SYSTEM AND VIDEO SURVEILLANCE SYSTEM HEAD END WILL BE PROVIDED BY THE OWNERS SECURITY VENDOR. ALL CABLING SHOWN FOR ACCESS CONTROL DEVICES AND ANY REFERENCE TO INTEGRATION WITH ACCESS CONTROL SYSTEM SHALL MEAN WIRING TO BE PROVIDED BY E.C. AND 20' OF WIRING COILED IN THE NEAREST IDF/IDF ROOM. ALL CABLING SHALL BE CLEARLY LABELED BY THE E.C. AND TESTED FOR CONTINUITY.

**WIRING LEGEND (ALL WIRING BY E.C.)**

- 1 INPUT - CABLE REQUIREMENTS 18AWG FOUR CONDUCTOR STRANDED NON-SHIELDED FOR DPS ONE PAIR PER POLE. FOR REX ONE PAIR SPARE
- 2 OUTPUT - CABLE REQUIREMENTS 18AWG TWO CONDUCTOR STRANDED, NON-SHIELDED
- 3 MOTION DETECTOR - CABLE REQUIREMENTS 18AWG TWO CONDUCTOR STRANDED NON SHIELDED (THIS IS FOR DC POWER ONLY IN DESIGN)
- 4 READER - CABLE REQUIREMENTS 22AWG THREE PAIR SHIELDED REFERENCE MODEL BLDEN 92777 FOR PLENUM RATED APPLICATIONS
- 5 KEYPAD - CABLE REQUIREMENTS 18AWG FOUR CONDUCTOR STRANDED NON SHIELDED
- 6 INTRUSION ALARM BUS - CABLE REQUIREMENT 18AWG FOUR CONDUCTOR STRANDED NON SHIELDED
- 7 CAT 6 PLENUM RATED UTP CABLE TO SECURITY PATCH PANEL
- 8 POWER SUPPLY CABLE AND CONTROL FOR EXTERIOR PTZ CAMERA 2#18&2#18TSP.
- 9 INPUT - CABLE REQUIREMENTS 18AWG FOUR CONDUCTOR STRANDED NON-SHIELDED
- 10 (2)CAT 6 PLENUM RATED UTP CABLE TO SECURITY PATCH PANEL
- 11 OUTPUT - CABLE REQUIREMENTS 14AWG TWO CONDUCTOR STRANDED, NON-SHIELDED
- 12 2 STRAND OUTSIDE PLANT MULTI MODE FIBER OPTIC CABLE



**6** SECURITY ACCESS CONTROL BADGING WORKSTATION  
 E5.0 SCALE: N.T.S.

- NOTES:**
1. COORDINATE LOCATION OF SECURITY ACCESS CONTROL BADGING WORKSTATION W/ OWNER
  2. PROVIDE 750VA, 500W, 120V UPS

**SECURITY PARTITION SCHEDULE**

PARTITION NO.	DESCRIPTION
1	TOWN SQUARE (CAFETERIA)
2	GYM
3	AUDITORIUM
4	LIBRARY
5	ADMINISTRATION AREA
6	FIRST FLOOR
7	SECOND FLOOR
8	THIRD FLOOR
9	SPARE
10	SPARE
11	SPARE
12	SPARE
13	SPARE
14	SPARE
15	SPARE
16	SPARE

**PARTITION NOTE**

1. IESS CONTRACTOR SHALL COORDINATE EXACT PARTITIONING OF THE BUILDING WITH THE OWNER PRIOR TO PROGRAMMING.

REVISIONS NO.	DATE	REMARKS	BY

**HM FH**

**HMFH ARCHITECTS**

130 Billing-Allen Drive  
Dover, NH 03828  
978.282.2000  
@HMFHArch | hmfh.com

**GARCIA GALLUSKA DESOUSA**  
Principal Architect  
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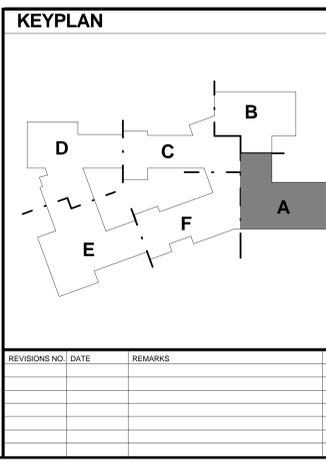
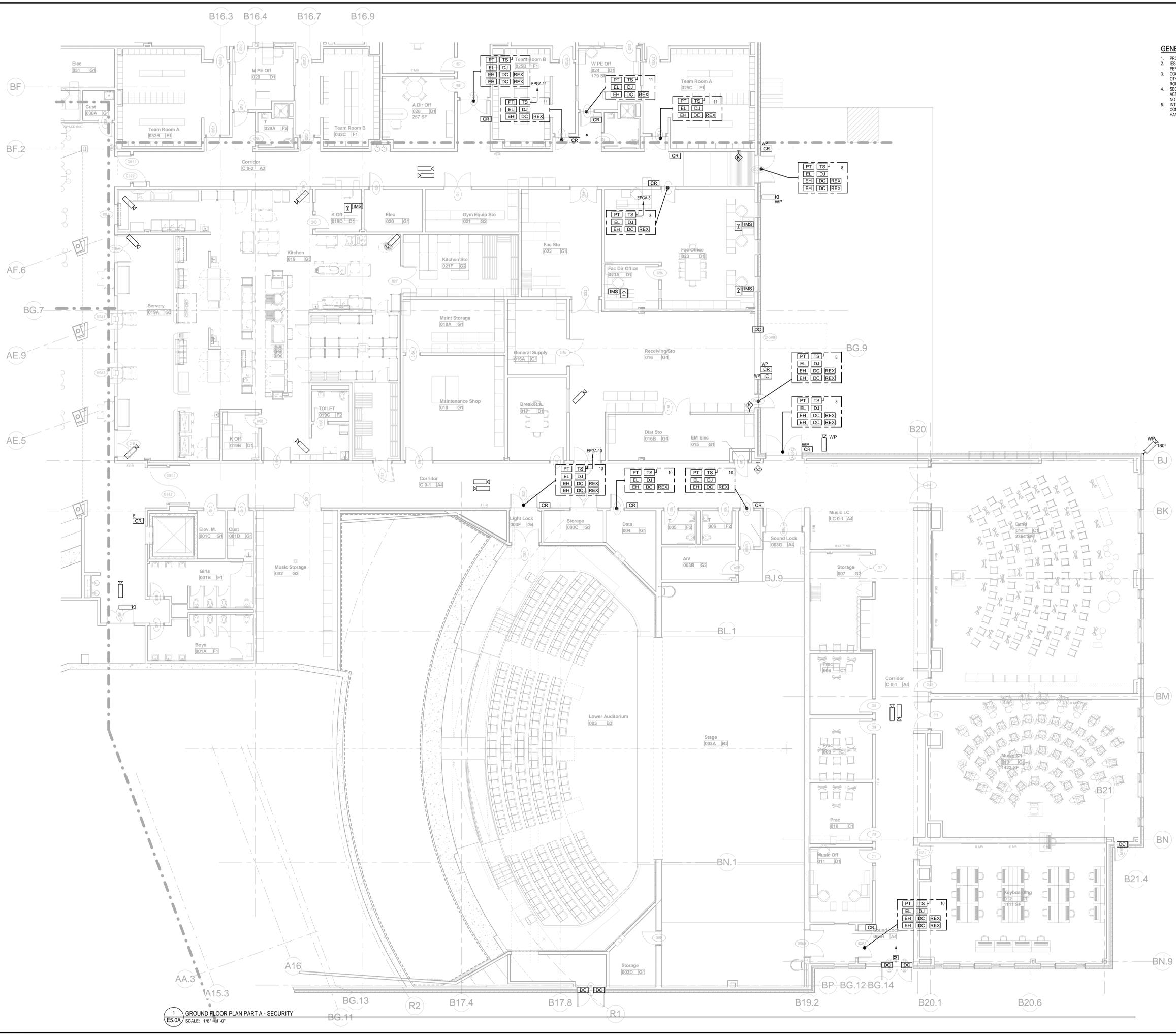
**100% CONFORMED SET - FOR CONSTRUCTION**  
9/12/16

**Dover HS / CTC**  
Dover, NH  
**SECURITY RISER & DETAILS**

DRAWN BY: WJK CHECKED BY: DMP  
SCALE: E5.0  
JOB NUMBER: 403114



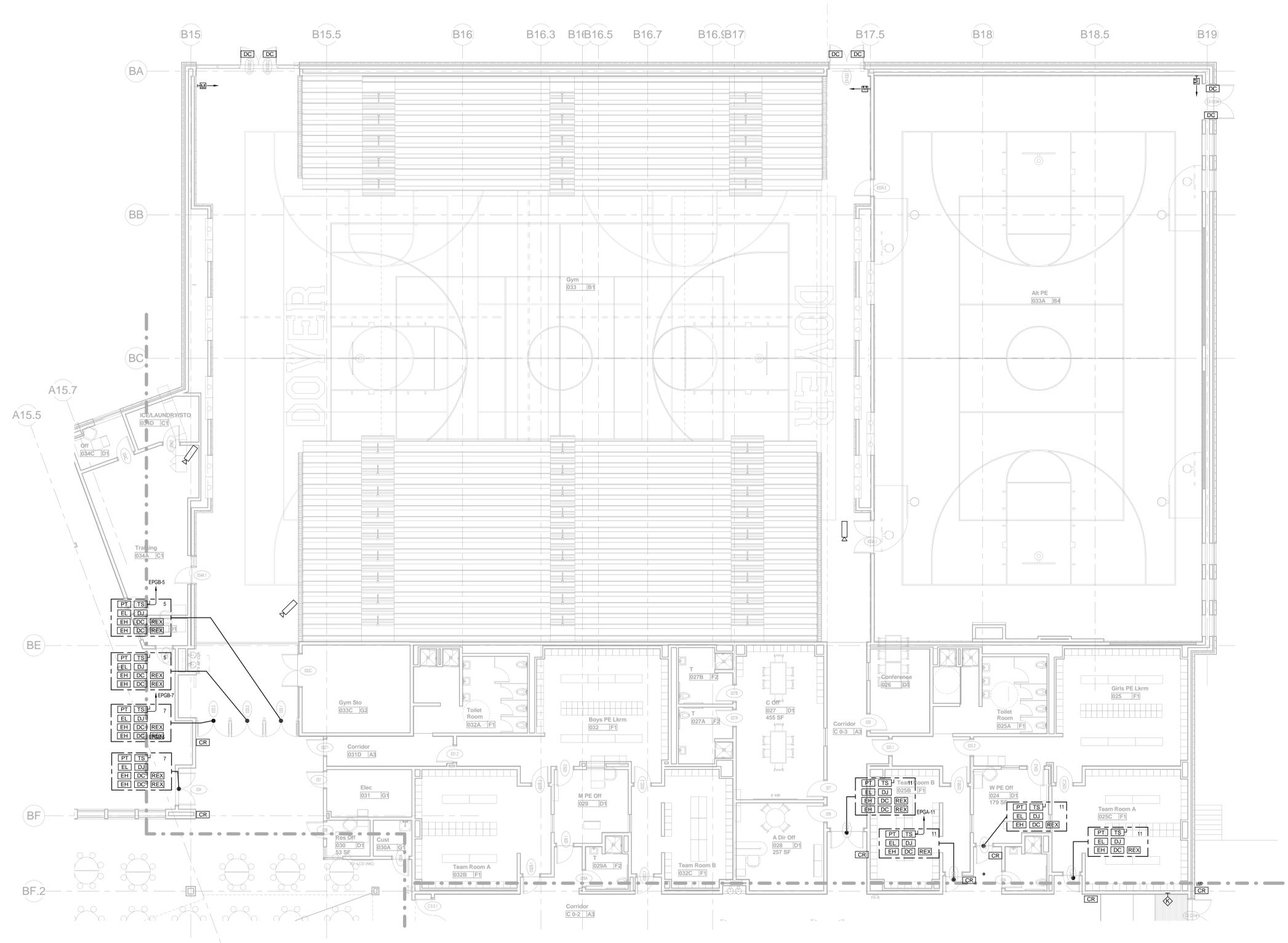
- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE.
  2. ISS TO COORDINATE FINAL SECURITY ZONES WITH OWNER PROGRAM PER OWNER'S DIRECTIONS.
  3. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  4. SECURITY PANIC SWITCH, DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONNEL SHALL BE NOTIFIED.
  5. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.



1  
E5.0A  
GROUND FLOOR PLAN PART A - SECURITY  
SCALE: 1/8" = 1'-0"

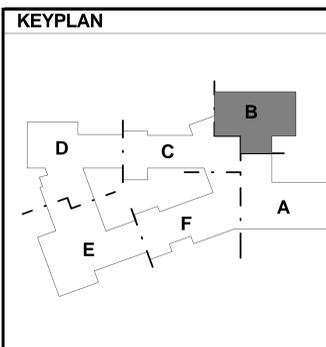
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- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE. DEPEND ON COORDINATE FINAL SECURITY ZONES WITH OWNER. PROGRAM PER OWNER'S DIRECTIONS.
  2. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  3. SECURITY PANIC SWITCH DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONNEL SHALL BE NOTIFIED.
  4. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.



1 GROUND FLOOR PLAN PART B - SECURITY  
E5.0B SCALE: 1/8" = 1'-0"

100% CONFORMED SET - FOR CONSTRUCTION  
9/12/16

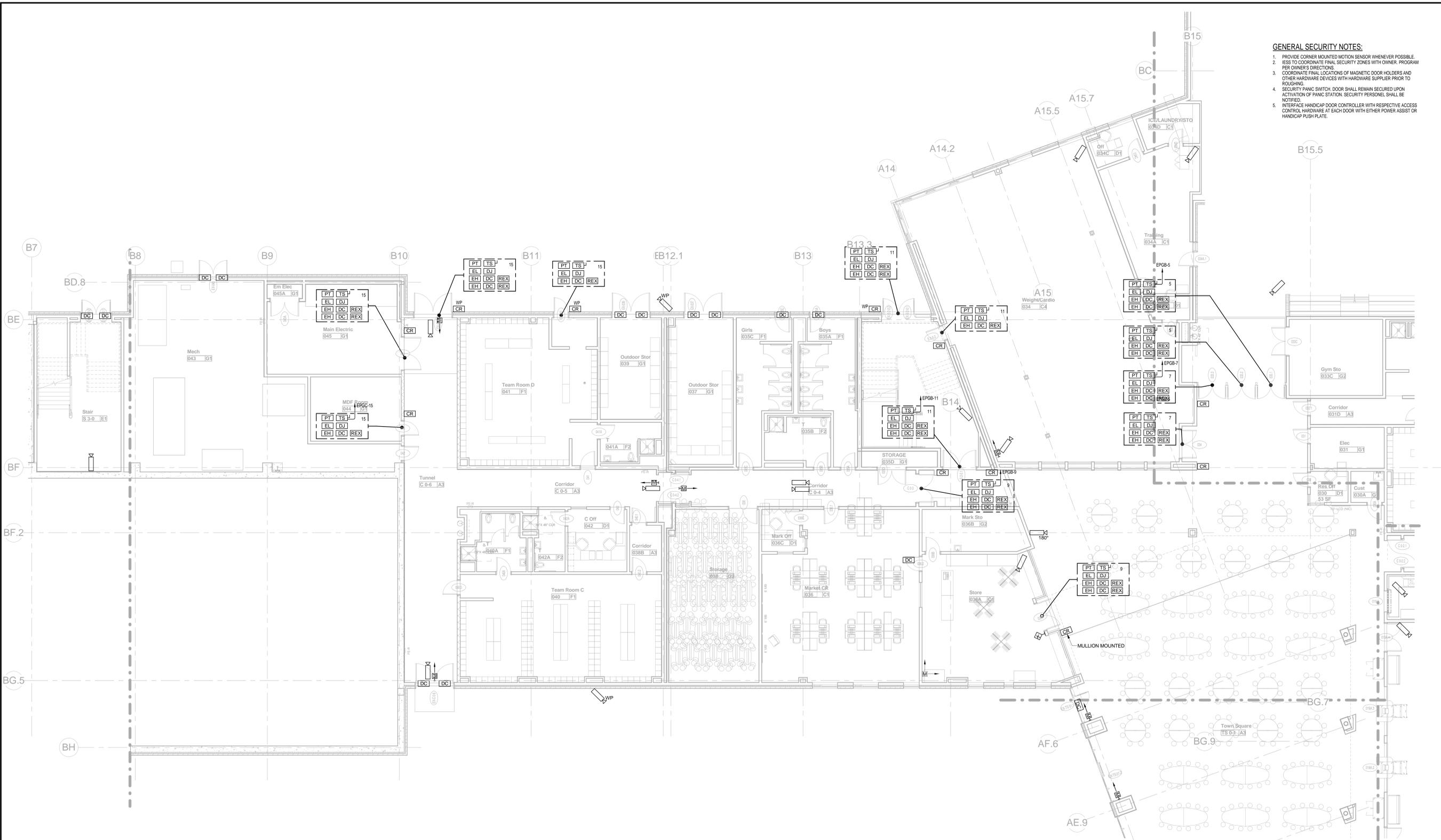


REVISIONS NO.	DATE	REMARKS	BY

Dover HS / CTC  
Dover, NH  
GROUND FLOOR PLAN PART B - SECURITY  
SCALE: As Indicated  
DRAWN BY: WJK  
CHECKED BY: DMP

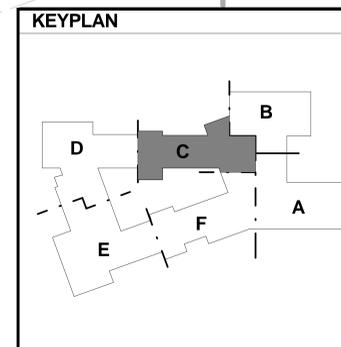
DRAWING NUMBER  
**E5.0B**  
JOB NUMBER 40114

- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE.
  2. BESS TO COORDINATE FINAL SECURITY ZONES WITH OWNER. PROGRAM PER OWNER'S DIRECTIONS.
  3. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  4. SECURITY PANIC SWITCH. DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONNEL SHALL BE NOTIFIED.
  5. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.



1  
E5.0C GROUND FLOOR PLAN PART C - SECURITY  
SCALE: 1/8" = 1'-0"

100% CONFORMED SET - FOR CONSTRUCTION  
9/12/16

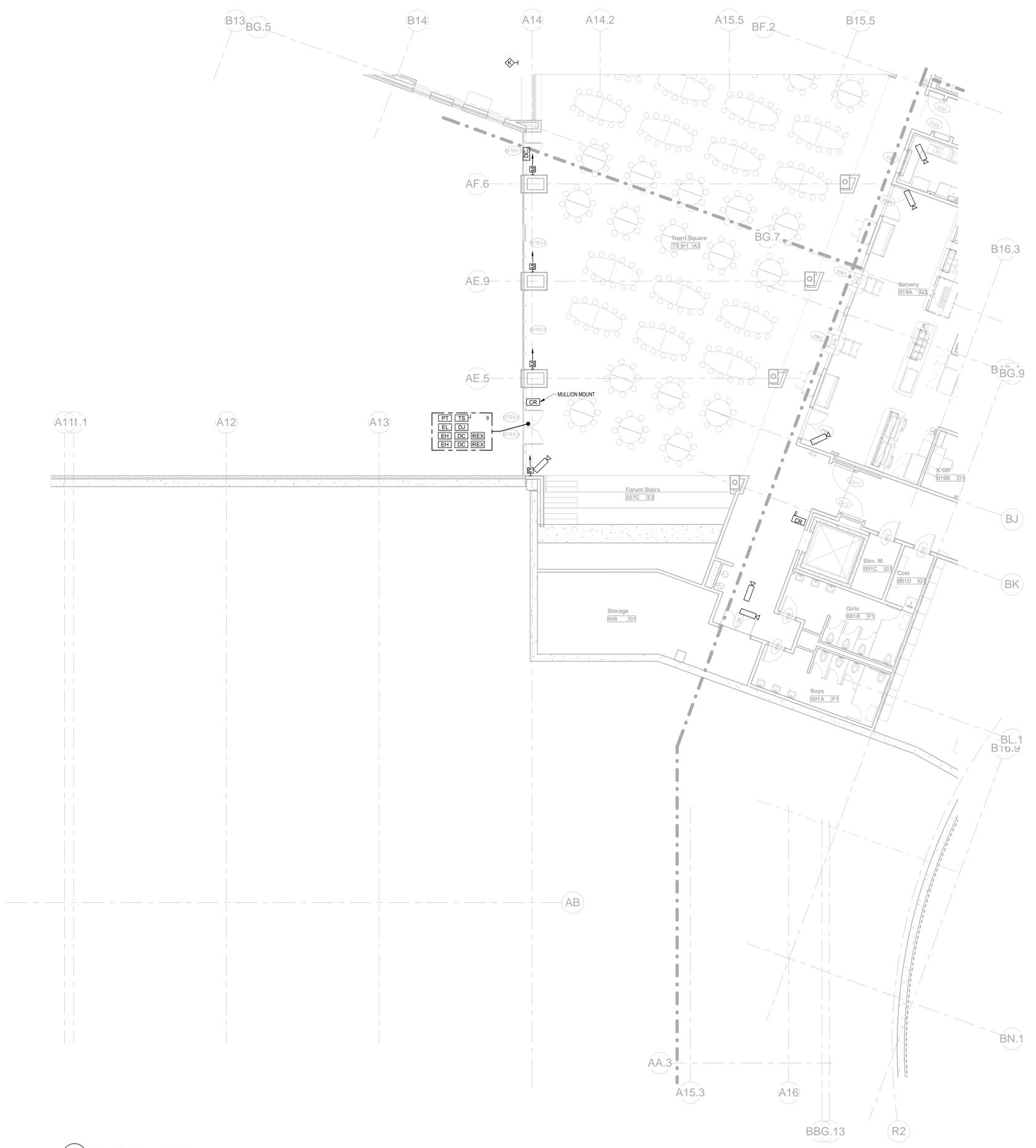


REVISIONS NO.	DATE	REMARKS	BY

Dover HS / CTC  
Dover, NH  
**GROUND FLOOR PLAN PART C - SECURITY**  
SCALE: As Indicated  
DRAWN BY: WJK  
CHECKED BY: DMP  
DRAWING NUMBER  
**E5.0C**  
JOB NUMBER 403114



- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE.
  2. ESS TO COORDINATE FINAL SECURITY ZONES WITH OWNER. PROGRAM PER OWNER'S DIRECTIONS.
  3. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  4. SECURITY PANIC SWITCH DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONNEL SHALL BE NOTIFIED.
  5. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.

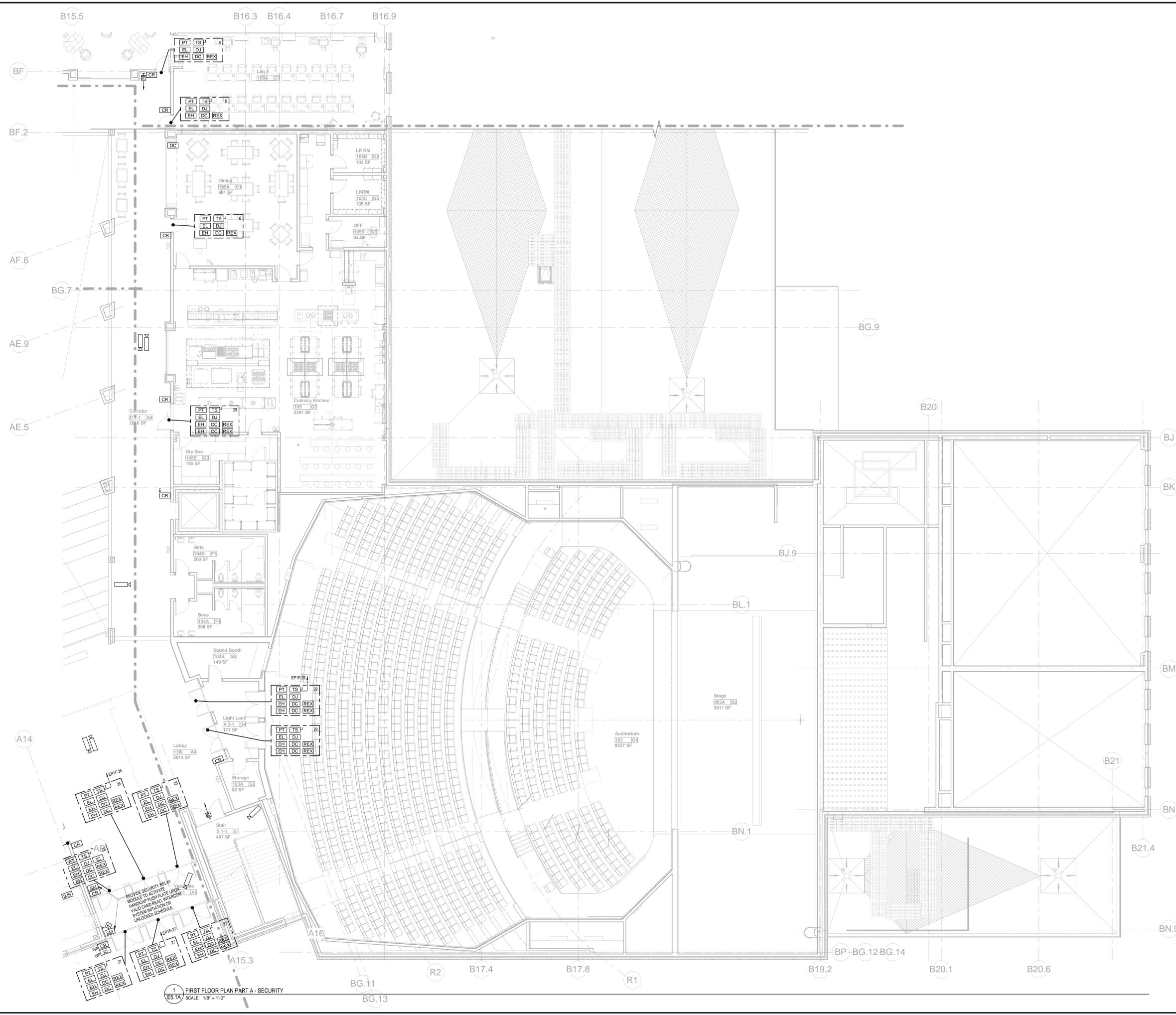


1  
E5.0F  
GROUND FLOOR PLAN - POWER  
SCALE: 1/8" = 1'-0"

**KEYPLAN**

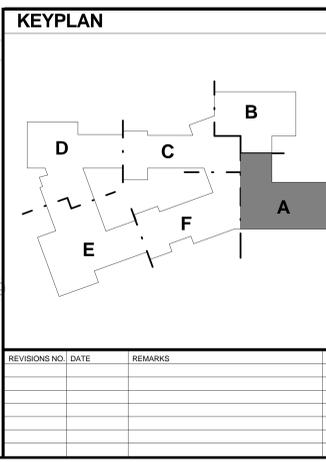
REVISIONS NO.	DATE	REMARKS	BY

- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE.
  2. LESS TO COORDINATE FINAL SECURITY ZONES WITH OWNER. PROGRAM PER OWNER'S DIRECTIONS.
  3. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO POURING.
  4. SECURITY PANIC SWITCH DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONEL SHALL BE NOTIFIED.
  5. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.



1  
E5.1A  
FIRST FLOOR PLAN PART A - SECURITY  
SCALE: 1/8" = 1'-0"

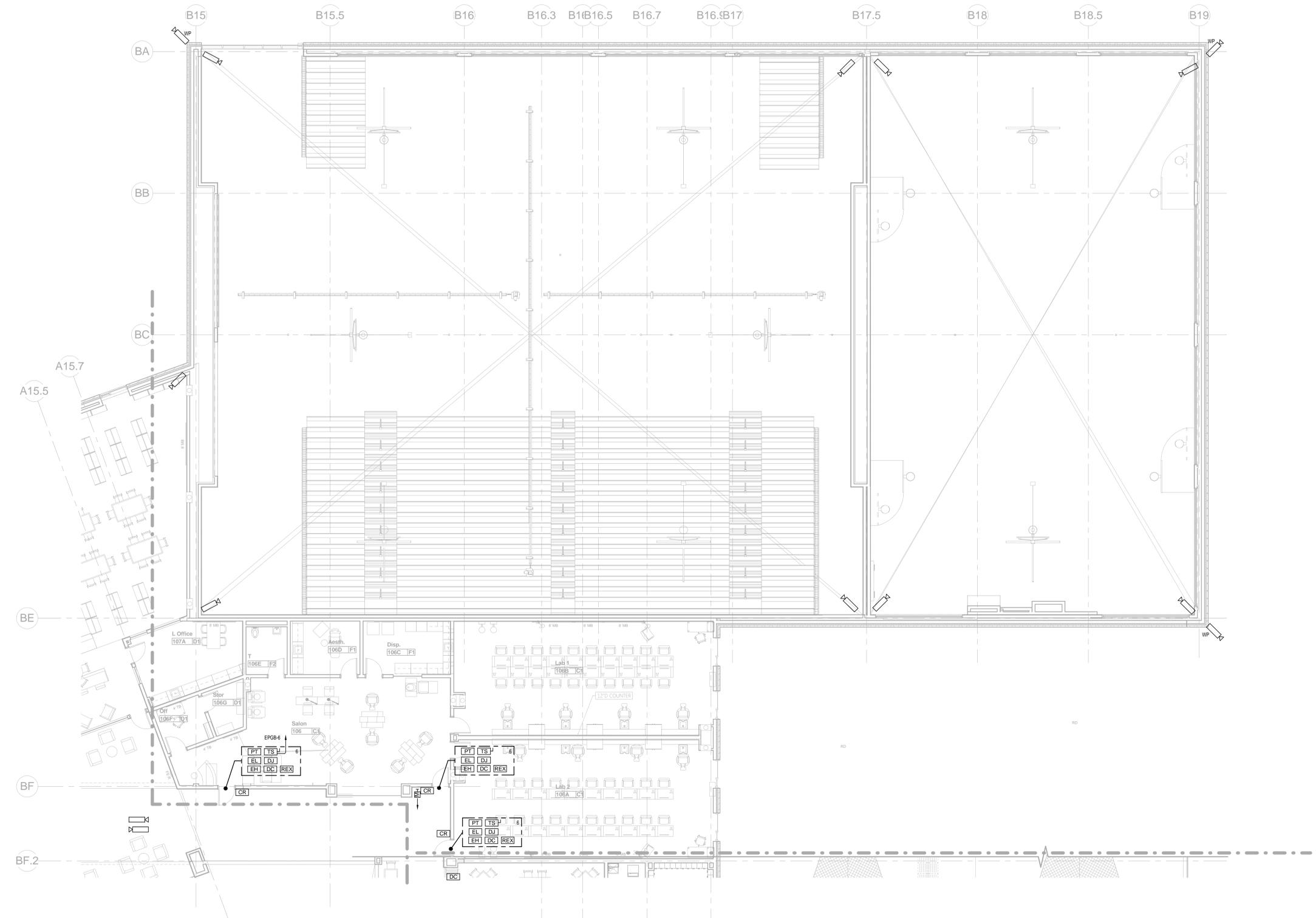
100% CONFORMED SET - FOR CONSTRUCTION  
9/12/16



Dover HS / CTC  
Dover, NH  
**FIRST FLOOR PLAN PART A - SECURITY**  
SCALE: As Indicated  
DRAWN BY: WJK  
CHECKED BY: DMP  
DRAWING NUMBER  
**E5.1A**  
JOB NUMBER 40114

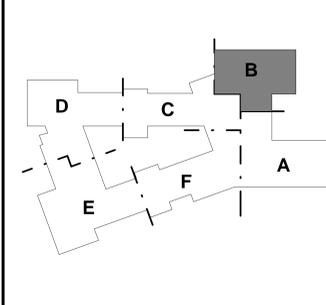


- GENERAL SECURITY NOTES:**
1. PROVIDE CORNER MOUNTED MOTION SENSOR WHENEVER POSSIBLE.
  2. LESS TO COORDINATE FINAL SECURITY ZONES WITH OWNER. PROGRAM PER OWNER'S DIRECTIONS.
  3. COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLDERS AND OTHER HARDWARE DEVICES WITH HARDWARE SUPPLIER PRIOR TO ROUGHING.
  4. SECURITY PANIC SWITCH: DOOR SHALL REMAIN SECURED UPON ACTIVATION OF PANIC STATION. SECURITY PERSONNEL SHALL BE NOTIFIED.
  5. INTERFACE HANDICAP DOOR CONTROLLER WITH RESPECTIVE ACCESS CONTROL HARDWARE AT EACH DOOR WITH EITHER POWER ASSIST OR HANDICAP PUSH PLATE.



1 FIRST FLOOR PLAN PART B - SECURITY  
E5.1B SCALE: 1/8" = 1'-0"

KEYPLAN



REVISIONS NO.	DATE	REMARKS	BY