

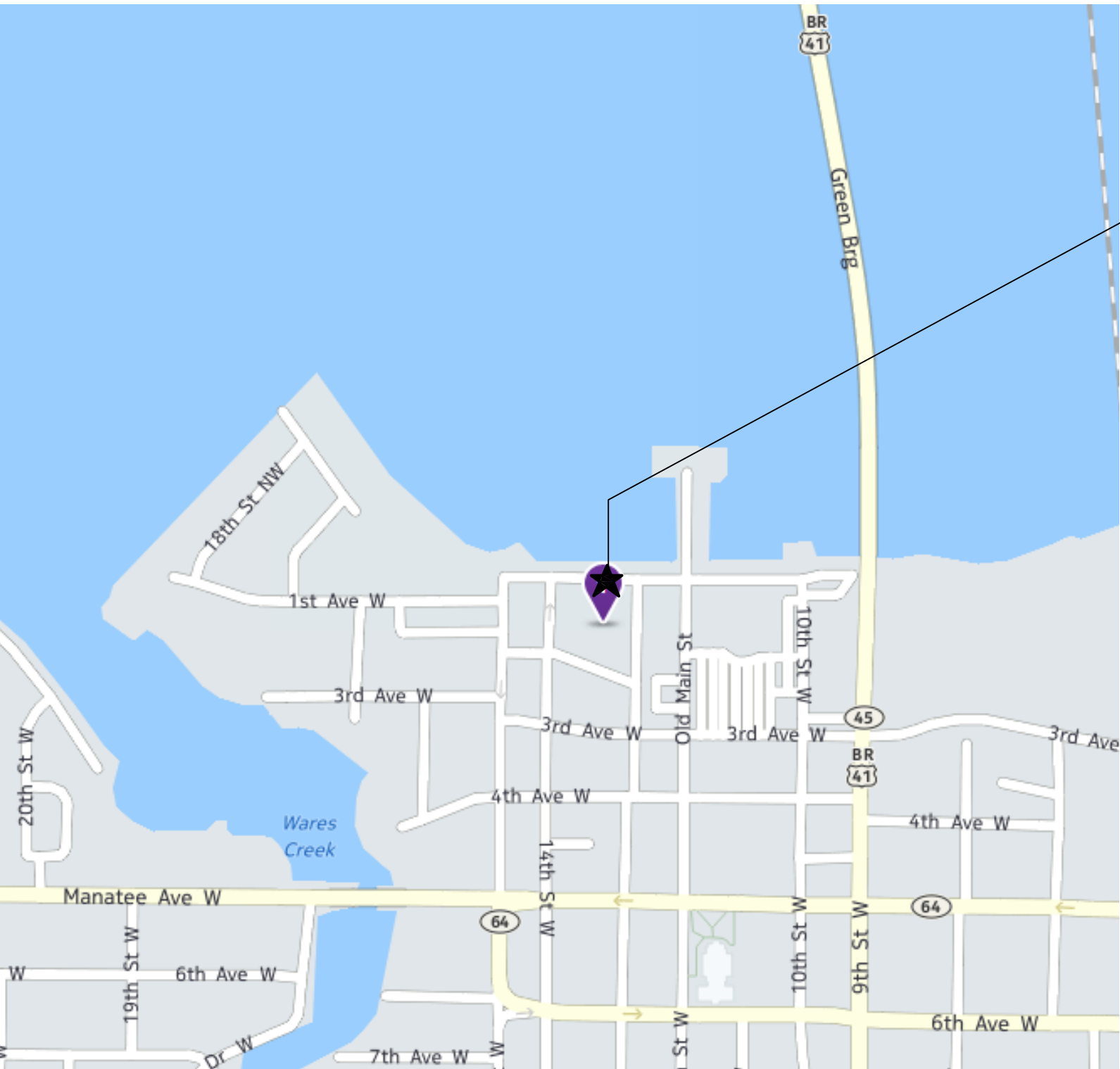
MANATEE COUNTY CENTRAL LIBRARY

ELEVATOR CONTROL PLANS

1301 1ST. AVE W.
BRADENTON, FLORIDA 34205
WORK ASSIGNMENT #16

SHEET SCHEDULE

SHEET	DESCRIPTION
COVER	PROJECT NAME, LOCATION and SITE MAPS, SHEET SCHEDULE
EC1.0	ELEVATOR CONTROLS DEMOLITION PLANS AND LEGEND
EC2.0	ELEVATOR CONTROLS PROPOSED FLOOR PLANS AND SCHEDULES
EC3.0	ELEVATOR CONTROLS SPECIFICATIONS
EC4.0	ELEVATOR ONE-LINE RISER DIAGRAM AND PANELS



SITE MAP



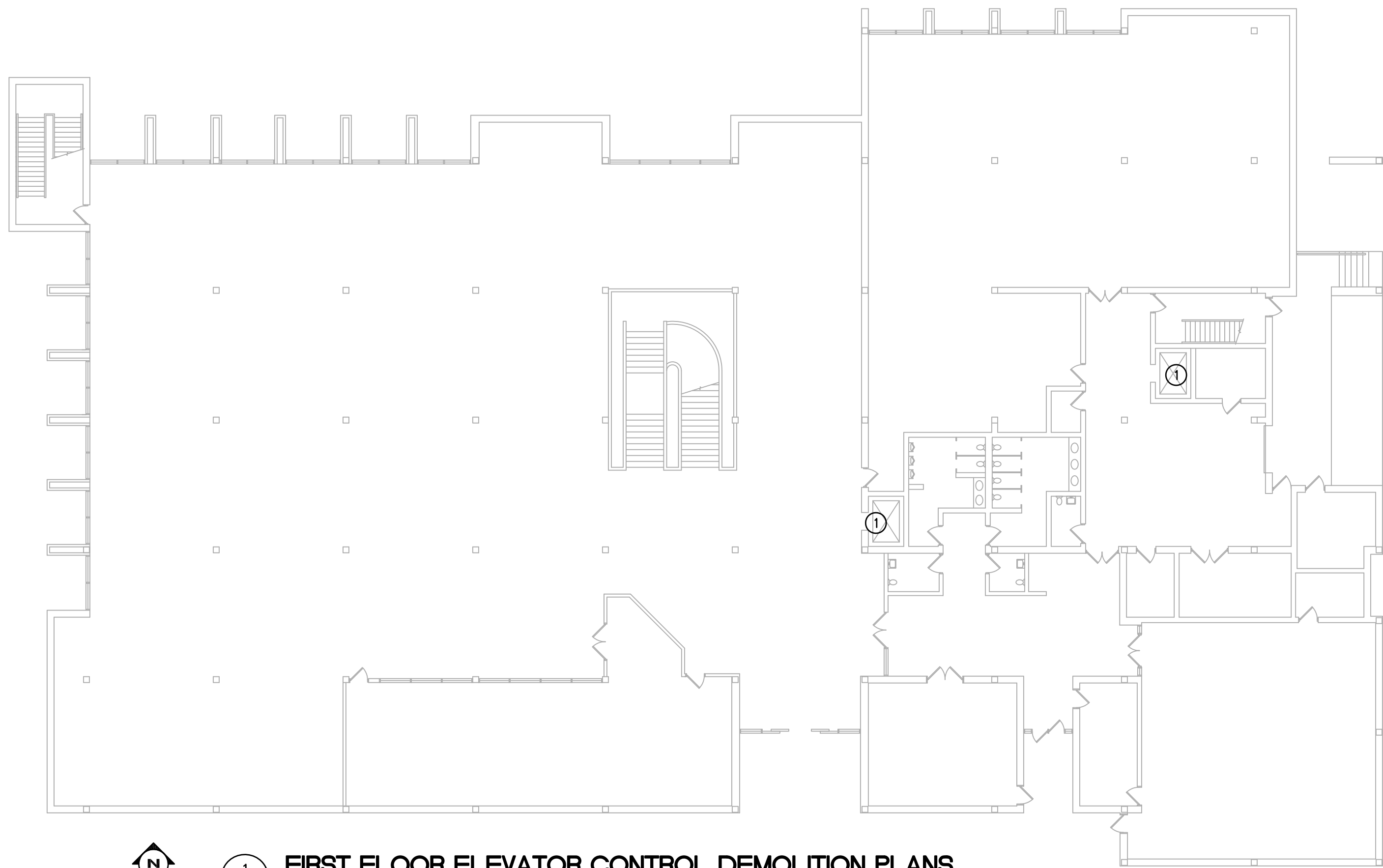
LOCATION MAP
FLORIDA

To the best of the engineer's knowledge, said plans and specifications comply with the applicable building codes and the applicable minimum fire safety standards as determined in accordance with Chapters 553 and 633, Florida Statutes.

ATP ENGINEERING SOUTH, PL
SARASOTA, FLORIDA
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SEAL

MATTHEW CAMDEN
FL#79284



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EC1.0

FIRST FLOOR ELEVATOR CONTROL DEMOLITION PLANS

1/16" = 1'-0"

GENERAL NOTES:

THERE ARE TWO ELEVATORS THAT WILL BE RENOVATED IN THIS PROJECT AS LOCATED AND DETAILED ON THE DEMOLITION AND PROPOSED ELEVATOR PLANS. THE UNITS ARE TWO FLOOR/LANDING WITH OPENING WESTINGHOUSE UNITS. THE ELEVATOR HAS AN APPROXIMATE SPEED OF 100FPM AND AN APPROXIMATE 2500 LB WEIGHT CAPACITY. ALL INFORMATION SHOULD BE FIELD VERIFIED PRIOR TO BIDDING. THE ELEVATOR CONTRACTOR SHALL COORDINATE ALL REQUIRED ELECTRICAL, FIRE ALARM, AND CONTROLS CONNECTIONS WITH APPROPRIATE CONTRACTORS PRIOR TO INSTALLATION AND BIDDING. THE FINAL INSTALLATION AND PROVISION OF CONTROLS, ELECTRICAL, AND FIRE ALARM CONNECTIONS SHALL BE MADE BY THE ELEVATOR CONTRACTOR. THE ELECTRICAL SYSTEMS FOR THE ELEVATOR SHALL BE REMOVED FROM THE ELEVATOR BACK TO THE SOURCE. NEW WIRING AND A NEW FIRE ALARM CONTROL CONNECTION SHALL BE INSTALLED WITH THE NEW SYSTEM TO COORDINATE AS REQUIRED BY CODE (NFPA 72) WITH THE FIRE ALARM SYSTEM AND EMERGENCY OVERRIDE CONTROLS.

DEMOLITION PLAN NOTES:

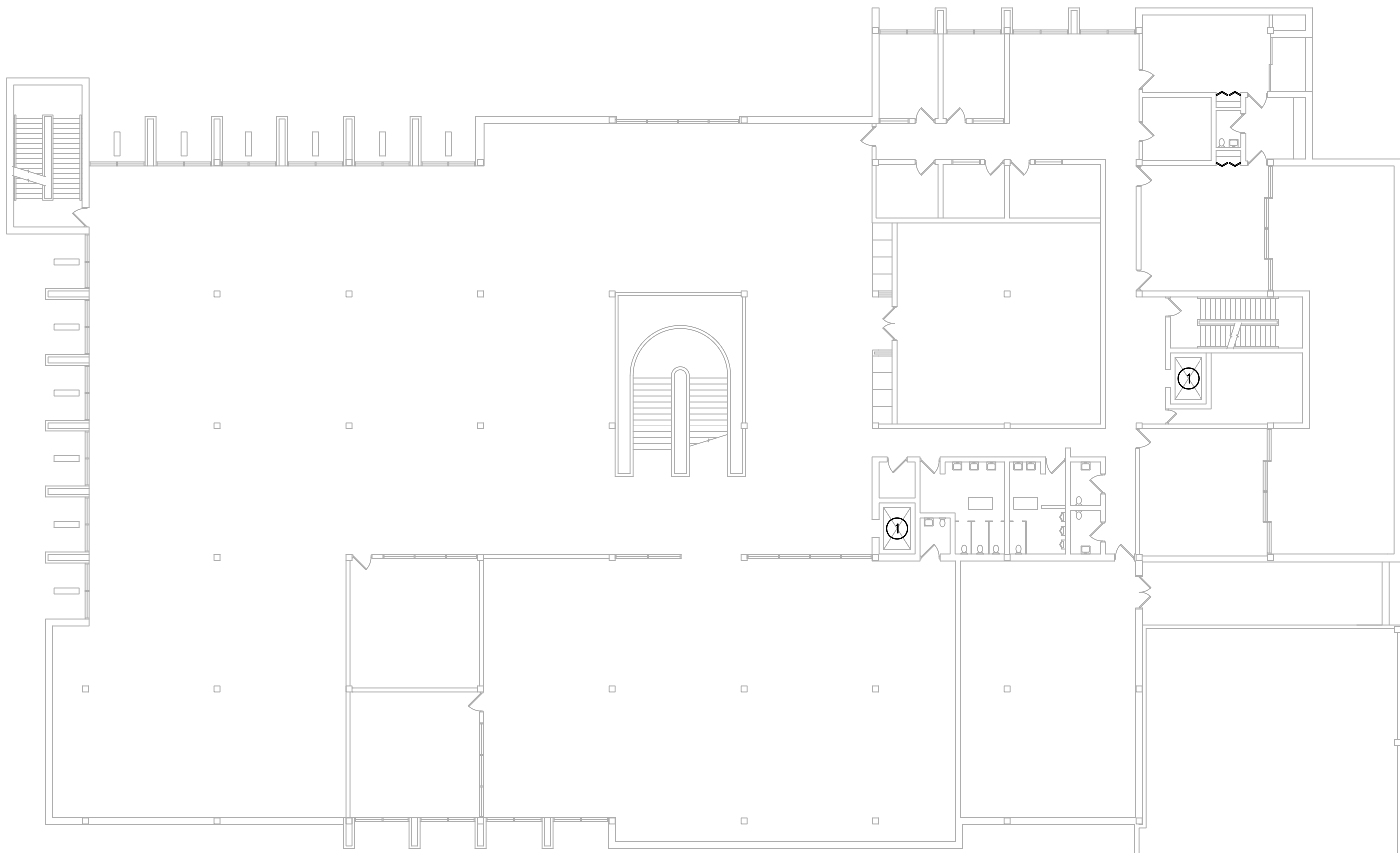
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REMOVAL OF CONTROLS, EXISTING CAR FIXTURES, CORRIDOR FIXTURES, DOOR OPERATOR TRACKS/HANGERS, POWER UNIT, AND CAB UNIT(IF REQUESTED BY THE OWNER'S REPRESENTATIVE).

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- THE WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND DEVICES FOR A COMPLETE SYSTEM IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS. INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND CONFORM TO THE NEC (NFPA 70 & 72) AND ALL APPLICABLE CODES, AND BE COMPLETED BY A QUALIFIED, EXPERIENCED, LICENSED ELECTRICAL CONTRACTOR.
- THE ENGINEER HAS MADE AN EFFORT TO COORDINATE WORK WITH OTHER TRADES AND IDENTIFY ANY AND ALL CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FIELD WORK BETWEEN TRADES AND TO IDENTIFY FIELD CONDITIONS PRIOR TO INSTALLATION AND REPORT ANY CONFLICTS TO THE ENGINEER.
- FOR BIDDING PURPOSES, WHEN A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE ITEMS OF GREATER QUANTITY AND/OR COST SHALL BE PROVIDED. ANY SUCH CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUGH-IN INSTALLATION WITH EQUIPMENT DETAILS.
- ALL OPENINGS IN FIRE AND SMOKE PARTITIONS SHALL BE SEALED AS REQUIRED BY THE NEC/ FLORIDA BUILDING CODE. PROVIDE UL LISTED COMPOUND TO MATCH PARTITION RATING.
- DO NOT SCALE DRAWINGS. VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION FOR EXACT DEVICE / EQUIPMENT LOCATION.
- DEMOLITION WORK: PROVIDE DEMOLITION AND REMOVAL WORK AS INDICATED OR NEEDED. EQUIPMENT THAT IS TO BE REMOVED INCLUDES ALL ASSOCIATED WIRING, BOXES AND CONDUIT BACK TO SOURCE. CLOSE ALL UNUSED OPENINGS IN JUNCTION BOXES THAT REMAIN WITH SUITABLE PLUG OR COVER. WHEN REMOVING OR RELOCATING LIGHT FIXTURES OR OTHER DEVICES, FIELD VERIFY REMAINING DEVICES IN THE SAME CIRCUIT AND RECONNECT FOR CONTINUED SERVICE. EXISTING ELECTRICAL WORK INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REROUTED TO SUIT FINAL INSTALLATION. CUTTING AND PATCHING REQUIRED SHALL BE DONE TO RESTORE AREAS TO ORIGINAL CONDITION.
- CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUT SHEETS AT TIME OF APPLICATION IF REQUESTED.

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. NOTIFY THIS ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND.

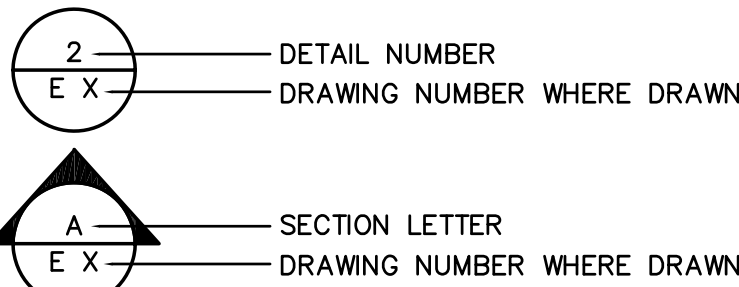


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EC1.0

SECOND FLOOR ELEVATOR CONTROL DEMOLITION PLANS

1/16" = 1'-0"

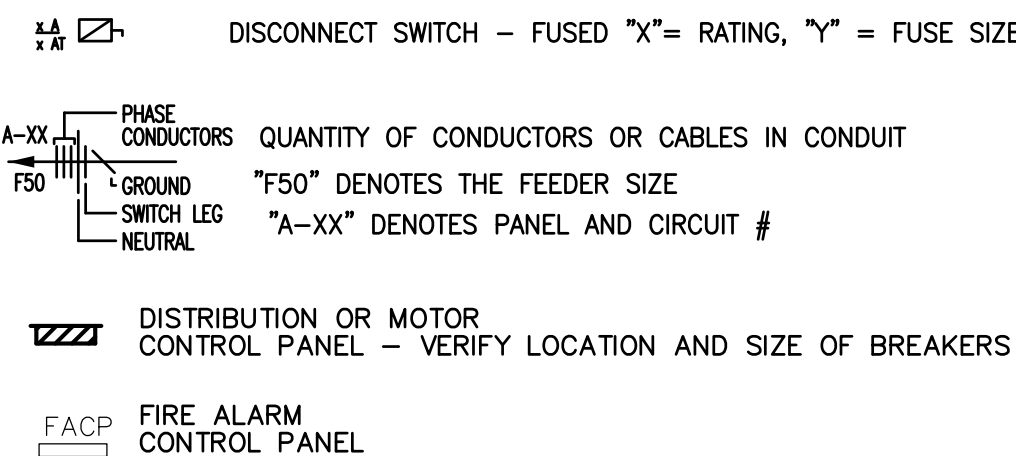
DRAWING SYMBOLS



1 REFER TO LIKE NUMBER NOTES.

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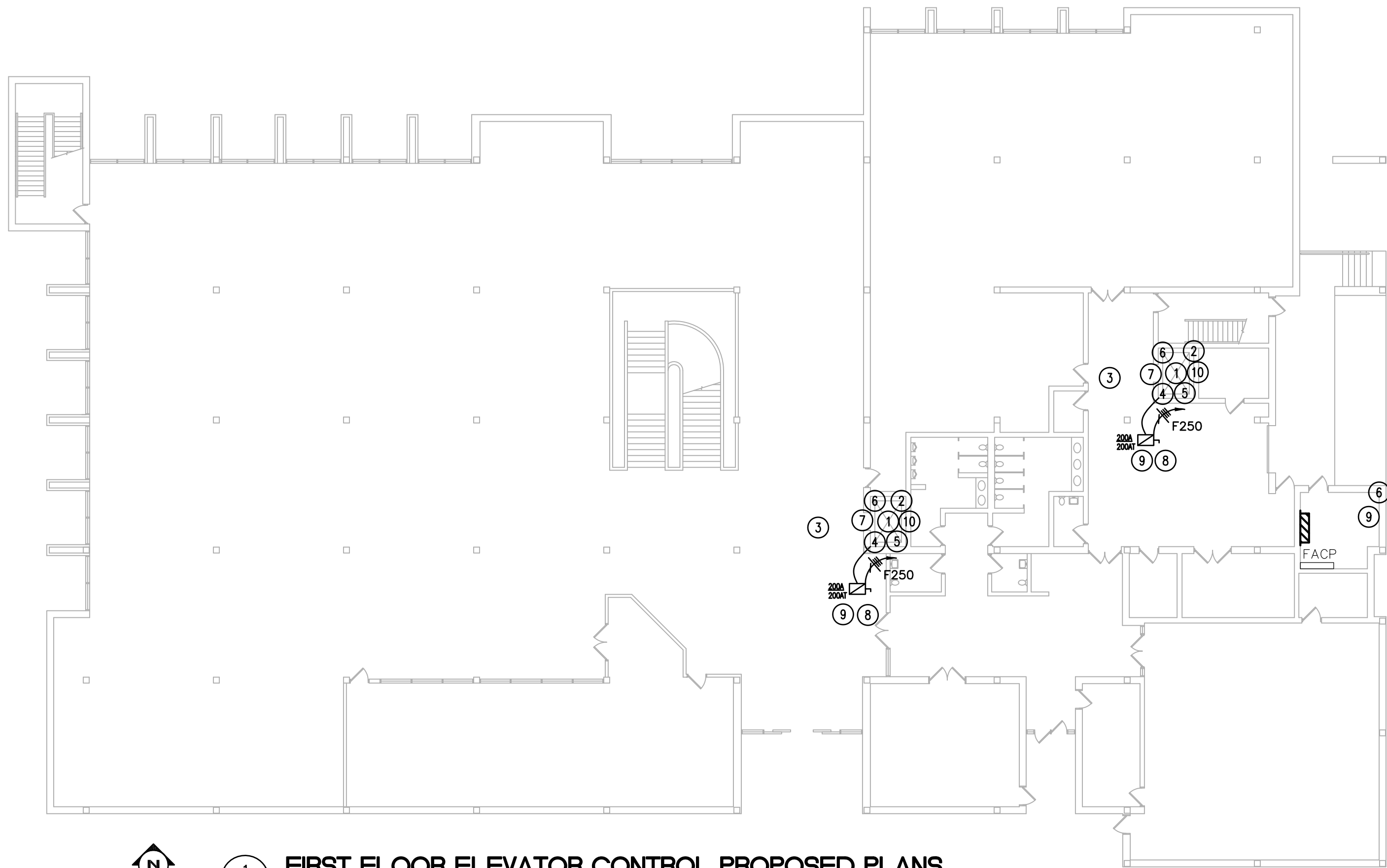
ELECTRICAL SYMBOLS



REV#	DESCRIPTION	DATE	SEAL

MANATEE COUNTY CENTRAL LIBRARY ELEVATOR RENOVATIONS 1301 1ST AVE W. BRADENTON, FLORIDA 34205 WORK ASSIGNMENT #38
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DRAWING TITLE: ELEVATOR CONTROLS DEMOLITION FLOOR PLANS AND LEGEND
FILE:MC CENTRAL LIBRARY
JOB NO.: 2014.38
DATE : 09/22/2014
PLOT SIZE: 24"x36"
DRAWN BY: CMD
CHECKED BY: JDC/MC
SHEET No.: EC1.0



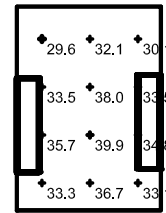
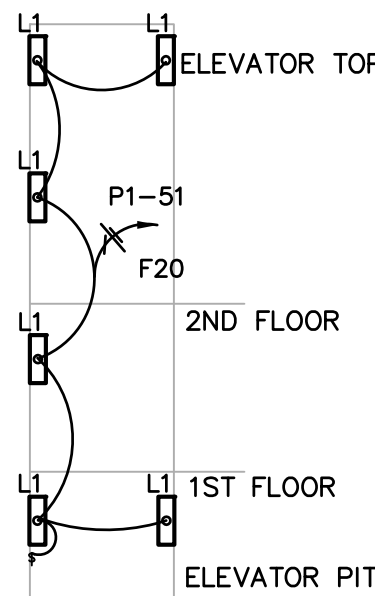
FIRST FLOOR ELEVATOR CONTROL PROPOSED PLANS

1/16" = 1'-0"

PLAN NOTES:

1. PROVIDE AND INSTALL A NEW MICROPROCESSOR CONTROL UNIT.
2. PROVIDE AND INSTALL NEW ADA COMPLIANT CAR FIXTURES, COORDINATE FINISHES WITH THE OWNER'S REPRESENTATIVE.
3. PROVIDE AND INSTALL NEW CORRIDOR FIXTURES WITH NEW ADA COMPLIANT FIXTURES, COORDINATE FINISHES WITH THE OWNER'S REPRESENTATIVE.
4. PROVIDE AND INSTALL A NEW DOOR OPERATORS.
5. PROVIDE AND INSTALL NEW DOOR TRACKS AND HANGERS.
6. PROVIDE AND INSTALL A NEW POWER UNIT.
7. PROVIDE AND INSTALL NEW CAB INTERIORS, COORDINATE WITH OWNER'S REPRESENTATIVE.
8. A NEW COOPER BUSSMAN QUICKSPEC POWER MODULE SWITCH TO MEET NEC, NFPA 72 AND SELECTIVE COORDINATION SHUTDOWN AND SHUNT TRIP MONITORING. THIS COOPER BUSSMANN DEVICE INCLUDES A FIRE SAFETY SIGNAL INTERFACE.
9. THE ELECTRICAL INFORMATION SHOULD BE VERIFIED PRIOR TO BIDDING. THE ELECTRICAL CONNECTIONS WILL CHANGE DEPENDENT UPON CONTROLS AND THE POWER UNIT. FIELD VERIFY CIRCUIT AND PANEL LOCATIONS. EXACT INFORMATION HAS NOT BEEN PROVIDED AT THIS TIME.
10. PROVIDE EMERGENCY LIGHTING FOR THE SHAFTS. EACH LIGHT SHALL PROVIDE AT LEAST 1200 LUMENS PER FIXTURE - 120V.

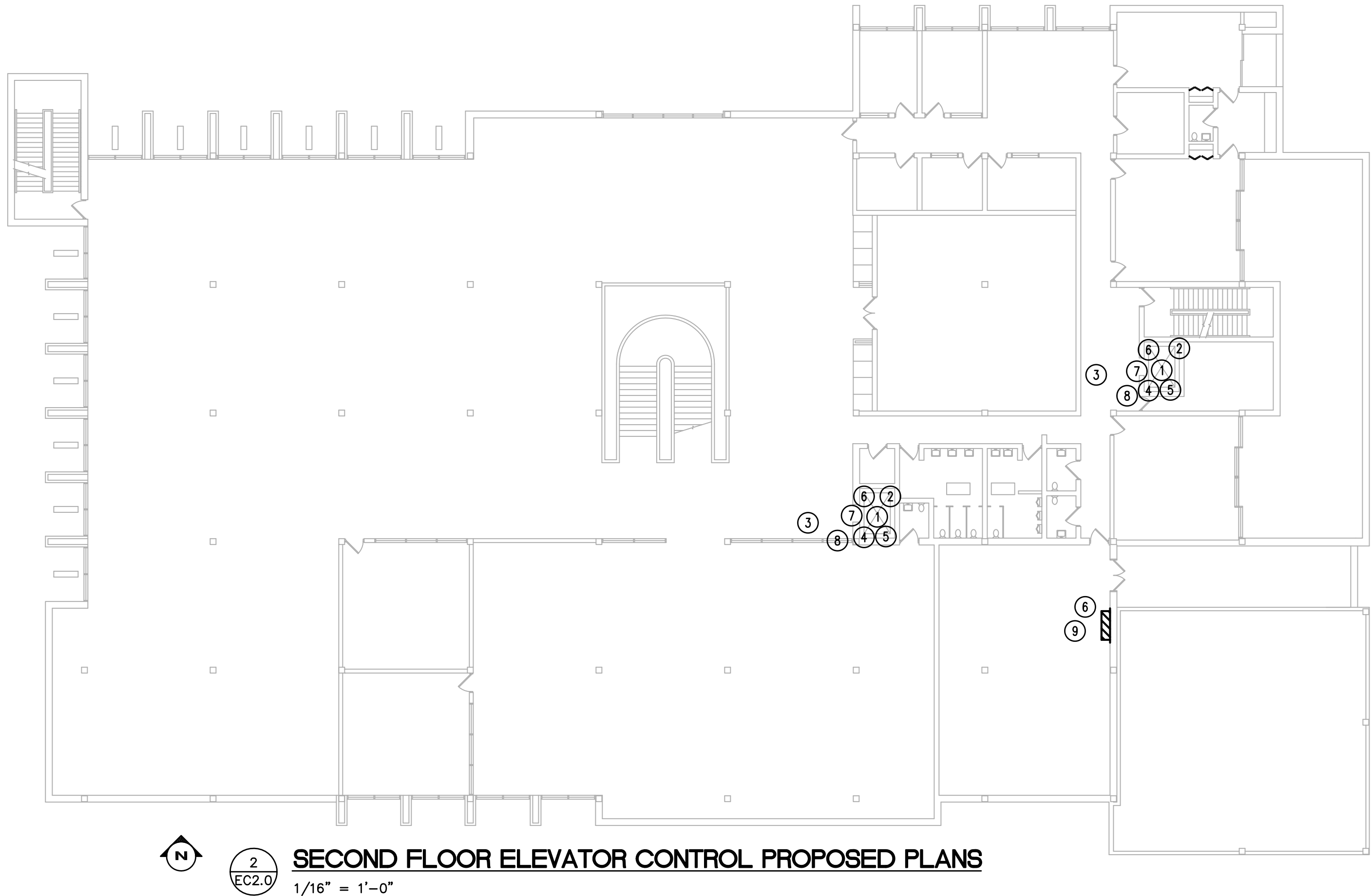
NOTES:
FIELD LOCATE LUMINAIRES IN SHAFT. PROVIDE AT APPROXIMATE SPACING AS SHOWN. MINIMUM FOOT CANDLES PER FLOOR IS 10FC.



PROPOSED EMERGENCY ILLUMINATION PLANS

1/16" = 1'-0"

- NOTES:
1. PROVIDE AND INSTALL AN EMERGENCY LIGHTING SYSTEM IN THE ELEVATOR. THE LIGHTS SHALL BE A 1'X4' LED LIGHT WITH A 1200 LUMEN MINIMUM BATTERY PACK LIKE: LITHONIA ZL1D, 48", 3000 LUMENS, 120V; HE WILLIAMS AX2W, 48", 3300 LUMENS, 120V; OR LITE-CONTROL 3L-W-D, 4', 7.5W/FT (~3000 LUMENS), 120V.



SECOND FLOOR ELEVATOR CONTROL PROPOSED PLANS

1/16" = 1'-0"

GENERAL NOTES:

(APPLY TO ALL SHEETS)

1. PROVIDE COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
2. ALL WORK SHALL CONFORM TO OR EXCEED THE MINIMUM REQUIREMENTS OF THE CURRENT ANSI/NFPA 70 WITH STATE OF FLORIDA AMENDMENTS, THE FLORIDA BUILDING CODE CHAPTER 30, ANSI/IEEE C2 AND ALL FEDERAL, STATE, LOCAL, AND MUNICIPAL CODES AND ORDINANCES. THE ELECTRICAL SUBCONTRACTOR SHALL COMPLY WITH THE DIRECTIONS OF ALL AUTHORITIES HAVING JURISDICTION.
3. INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARDS OF INSTALLATION. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
4. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING AND MILLWORK WORK BY THE SEPARATE GENERAL CONTRACT. COORDINATE ALL ELECTRICAL WORK.
5. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ALL FLOOR, WALL, AND CEILING PENETRATIONS TO COMPLETE HIS WORK. PROVIDE PROPER FIRE SAFEGING FOR ALL PENETRATIONS MADE.
6. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES TO ENSURE EFFECTIVE AND EFFICIENT OVERALL INSTALLATION.
7. COORDINATE ALL ELECTRICAL SYSTEM DOWNTIME WITH THE OWNER, PERFORMANCE SERVICES, AND OTHER TRADES. DOWNTIME OF THE SYSTEM SHALL BE MINIMIZED. WEEKEND AND AFTER HOUR WORK SHALL BE REQUIRED TO PREVENT OR MINIMIZE INTERFERENCE WITH THE OWNER'S OPERATION.
8. THE LOCATIONS OF NEW RECEPTACLES, PHONE/DATA JACKS, AND ROOM EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED DURING THE CONSTRUCTION PHASE.
9. ALL NEW EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.
10. PHYSICAL SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. COORDINATE ELECTRICAL WORK FOR THIS EQUIPMENT WITH THE OTHER TRADES.
11. PROVIDE APPROPRIATE SEALANT (I.E. FIRESAFEING) TO MAINTAIN CONSTRUCTION INTEGRITY FOR ANY PENETRATIONS THROUGH FLOORS, STRUCTURAL CEILINGS, AND FIRE WALLS.
12. ALL BRANCH CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTOR, AND INSULATED GROUNDING CONDUCTOR. DO NOT COMBINE NEUTRAL CONDUCTORS.
13. ALL FEEDER NEUTRAL/GROUNDED CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. DERATE MULTIPLE CONDUCTORS IN A RACEWAY ACCORDINGLY WITH NEC TABLES.
14. INSTALL ALL CONDUITS, RACEWAYS, AND CABLE TRAY FOR MAXIMUM HEAD CLEARANCE IN MECHANICAL AREAS; AND ATTIC. COORDINATE CLEARANCES WITH PERFORMANCE SERVICES AND THE OWNER.

(APPLY TO ALL SHEETS)

15. ALL ELECTRICAL SERVICE WORK SHALL COMPLY WITH THE LOCAL UTILITY. COORDINATE ALL REQUIREMENTS AND MAXIMUM AVAILABLE FAULT CURRENT PRIOR TO BID AND INCLUDE ALL NECESSARY MATERIAL AND LABOR REQUIRED FOR THE ADDITION TO THE ELECTRICAL SERVICE. ADD UTILITY FEES TEXT.
16. CONTRACTOR SHALL DEMOLISH ANY REMAINING EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, FIXTURES, WIRE, UTILITY TRANSFORMER, ETC. COMPLETE. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID. ALL REMOVED EQUIPMENT/FIXTURES SHALL BE TURNED OVER TO THE OWNER.
17. CAP AND FIRE STOP ALL EXISTING UNUSED CONDUITS AND CONDUIT PENETRATIONS THROUGH THE FLOOR AND TO THE FLOOR ABOVE.
18. IF A NEW CONDUIT IS REQUIRED FOR A RECEPTACLE, THERMOSTAT, OR WALL SWITCH, THE ELECTRICAL CONTRACTOR SHALL PATCH THE DRYWALL.
19. TEST GROUNDING SYSTEM AFTER COMPLETION OF JOB TO INSURE PROPER GROUND CONDUCTIVITY.
20. RECORD DRAWINGS: PROVIDE AMPERE READINGS ON ALL PANELBOARDS TO PROVE PANELS ARE BALANCED. PROVIDE PHASE ROTATION READINGS ON ALL PANELBOARDS.
21. THE PANEL LOADS ARE EITHER REDUCED OR HAVE NO NET CHANGE IN POWER. PANEL SCHEDULES SHALL BE PROVIDED WITH AS-BUILTS. THE NET POWER DEMAND MAY BE REDUCED OR NOT AT ALL DEPENDING UPON THE MANUFACTURER.
22. WIRE AND CONDUIT SIZES SHALL BE VERIFIED WITH AS-BUILTS FROM THE CONTRACTOR.

SEAL

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DATE

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Matthew J. Camden
FLP9284

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