

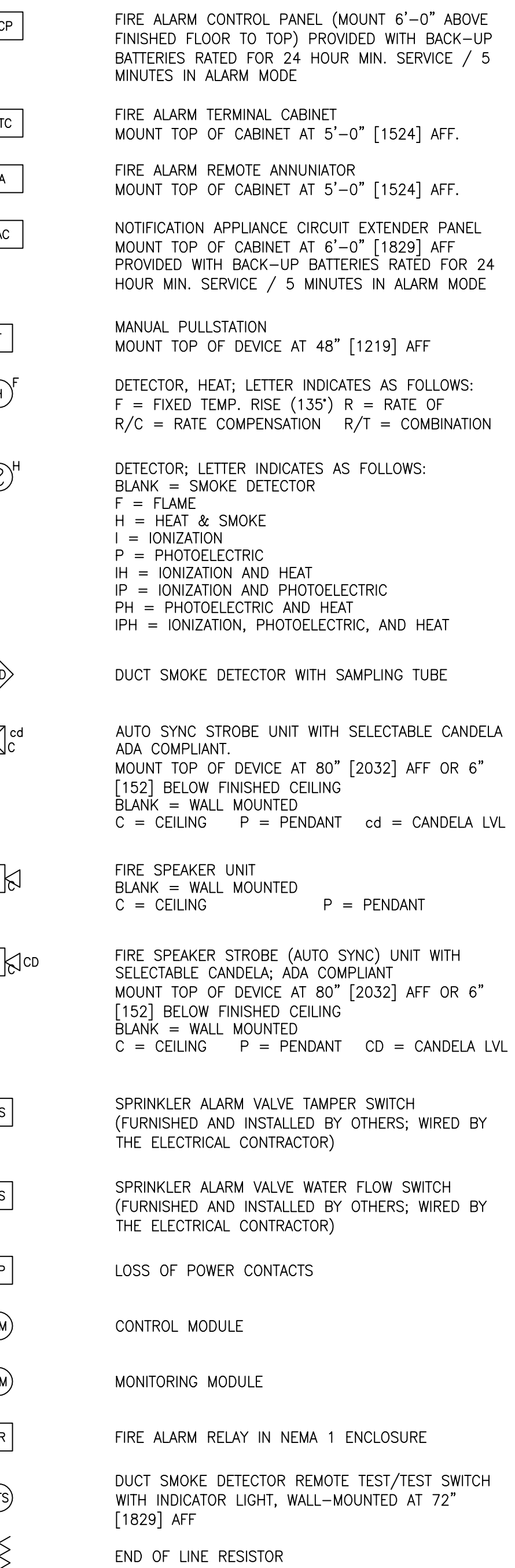
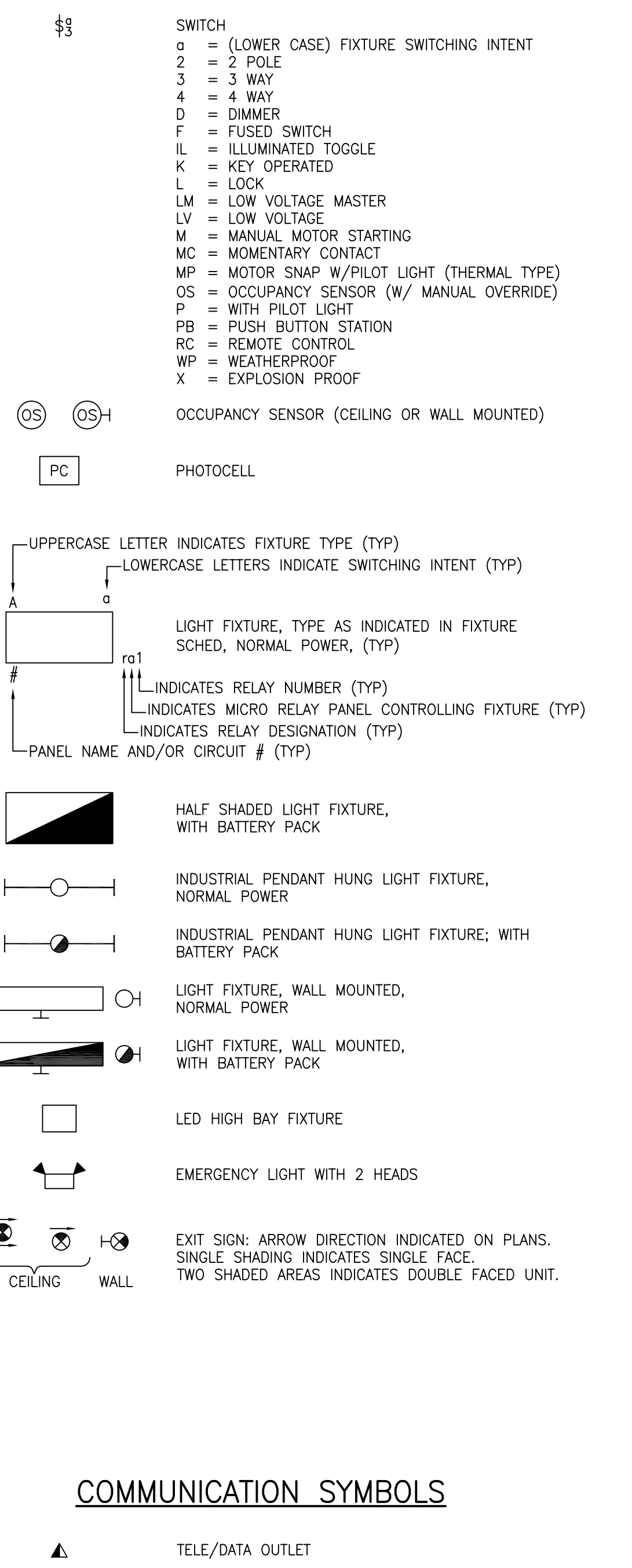
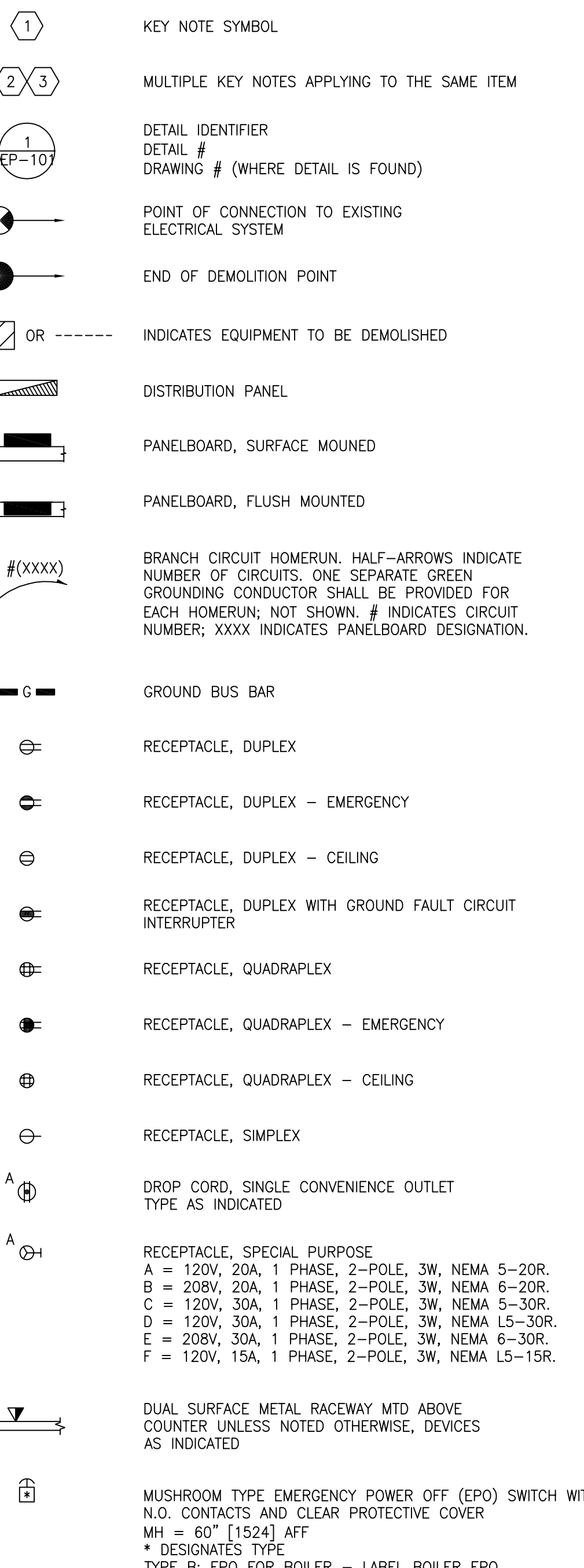
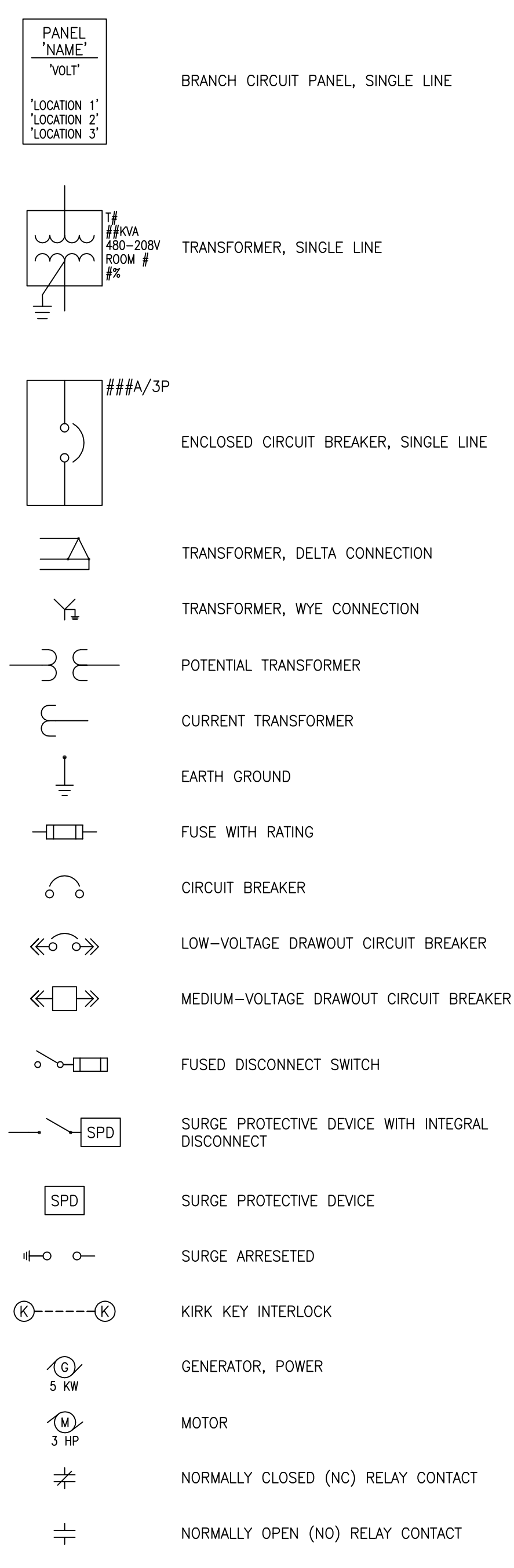
ELECTRICAL ABBREVIATIONS

ELECTRICAL SINGLE LINE SYMBOLS

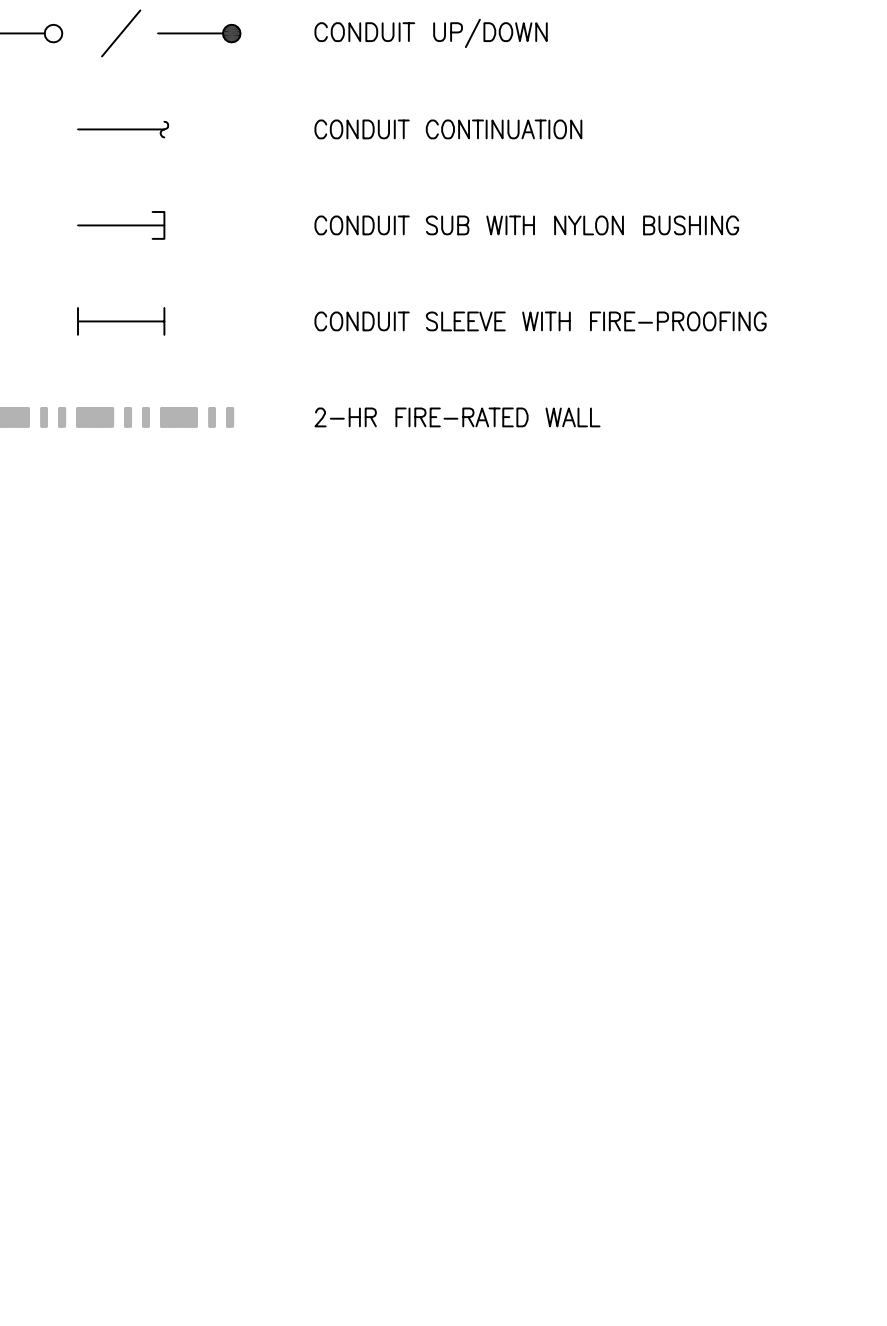
ELECTRICAL POWER SYMBOLS

ELECTRICAL LIGHTING SYMBOLS

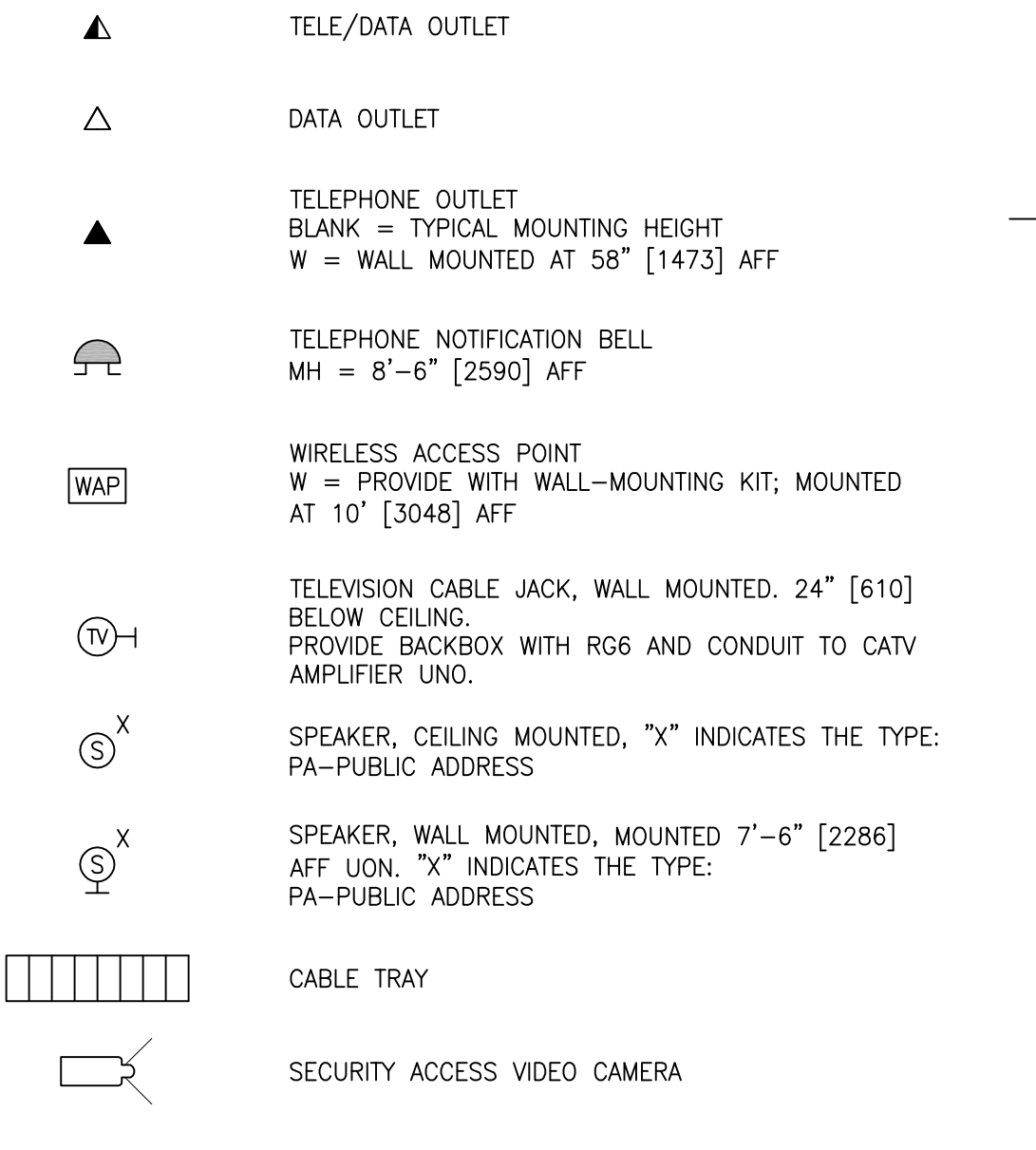
FIRE ALARM SYMBOLS



GENERAL SYMBOLS



COMMUNICATION SYMBOLS



DIMENSIONS

DIMENSIONS ON ALL SHEETS ARE LISTED IN IMPERIAL UNITS FOLLOWED BY METRIC UNITS IN MILLIMETERS WITHIN [ ] UNLESS NOTED OTHERWISE. DIMENSIONS WITHIN [ ] NOTES WITH AN "M" ARE IN METERS.

Table with 2 columns: NO. and DESCRIPTION. Contains drawing title and project information.

Table with 2 columns: CONSULTANTS and HAZARDOUS MATERIALS. Lists Mabbett & Associates, Inc. and other hazardous materials.

Table with 2 columns: FIRE SUPPRESSION and CIVIL/STRUCTURAL. Lists Koffel Associates and Magna Engineers.

Table with 2 columns: ENGINEER OF RECORD and ARCHITECTURAL. Lists Miller-Remick LLC and Oculus Inc.

Professional Engineer seal for Anthony D. Pakiro and logo for Miller-Remick LLC.

Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs logo.

Table with 2 columns: Phase and Project Title. Phase: 100% BID SET. Project Title: FULLY SPRINKLERED.

Table with 2 columns: Project Title and Location. Project Title: INSTALL NEW BOILERS IN BUILDING 13. Location: ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS.

Table with 2 columns: Project Number and Drawing Number. Project Number: 589A7-18-302. Drawing Number: E-001.

GENERAL NOTES AND CONDITIONS:

- 1. THESE DRAWINGS WERE PREPARED FROM INFORMATION TAKEN FROM THE AVAILABLE BUILDING DRAWINGS...
1.1. DRAWINGS ARE DIAGRAMMATIC.
1.2. SHOULD IT APPEAR THAT THE WORK INTENDED TO BE DESCRIBED OR RELATED WORK ARE NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THE DRAWINGS...
1.3. EQUIPMENT ARRANGEMENTS ARE DESIGNED TO SHOW PREFERRED CONFIGURATIONS TO SUIT KNOWN CONDITIONS...
1.4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS...
2.1. DURING PERFORMANCE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND MAINTENANCE OF WARNING SIGNS...
3. THIS INSTALLATION SHALL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL AGENCIES...
4. ALL WORK SHALL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER...
5. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES...
6. EACH TRADE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY POWER SOURCES...
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED FOR NONCOMPLIANCE WITH THESE CONTRACT DOCUMENTS...
8. MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION...
9. THOSE PERFORMING WORK AS A CONTRACTOR MUST EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED...
10. THE CONTRACTOR SHALL SECURE ALL APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED...
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS ON ALL EQUIPMENT AND MATERIALS SPECIFIED ON DRAWINGS FOR APPROVAL...
12. THE CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF DRAWINGS WHICH SHALL REFLECT THE ACTUAL INSTALLED CONDITIONS...
13. CONTRACTOR IS TO PROVIDE ALL REQUIRED SCAFFOLDING, LADDERS, RIGGING, HOISTING AND ALL OTHER EQUIPMENT REQUIRED FOR THE INSTALLATION OF THEIR WORK.
14. ESTABLISH PASSAGE CLEARANCES REQUIRED TO DELIVER, INSTALL AND ERECT ALL REQUIRE EQUIPMENT...
15. THE CONTRACTOR SHALL REPLACE ALL FIREPROOFING MATERIAL, INCLUDING SPRAY APPLIED AND MASONRY TYPES, THAT IS REMOVED TO ACCOMMODATE EQUIPMENT, HANGERS, ANCHORS, ETC.

ELECTRICAL DEMOLITION NOTES:

- 1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH DEMOLITION AND RENOVATION OF ELECTRICAL WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS...
2. NOTE THAT THE FACILITY WILL BE OPERATIONAL DURING THE COURSE OF THIS PROJECT.
2.1. THE CONTRACTOR IS TO COORDINATE ALL OF THE DEMOLITION WORK WITH THE FACILITY PERSONNEL TO MINIMIZE DISTURBING THE OPERATING EQUIPMENT, WIRING AND SYSTEMS.
2.2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING SYSTEMS.
2.3. IF NECESSARY THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER FOR THE FACILITY.
3. DEMOLITION AND REMOVAL OF WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER...
4. REFER TO ELECTRICAL DEMOLITION AND RENOVATION PLANS FOR NEW EQUIPMENT LAYOUT AND EXTENT OF EQUIPMENT BEING RELOCATED, RELOCATED, OR REMOVED...
5. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY...
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK FOR THIS PROJECT...
7. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES, ETC...
8. ALL WORK MUST BE SCHEDULED AND PERFORMED SO AS NOT TO INTERRUPT NORMAL OPERATIONS...
9. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE...
10. THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER...
11. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ELECTRICAL AND ARCHITECTURAL LAYOUTS...
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY CONNECTIONS / DISCONNECTS AS NEEDED TO ENSURE ADEQUATE SAFETY AND PROTECTION OF ALL PERSONNEL AND EQUIPMENT.
13. ALL ELECTRICAL PANELS SHALL BE MAINTAINED AS WORKING PANELS THROUGHOUT CONSTRUCTION...
14. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ANY DEVICES AND/OR FIXTURES LOCATED OUTSIDE OF DEMOLITION WORK AREA ARE NOT AFFECTED...
15. PORTIONS OF FEEDER RUNS THAT WILL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK...
16. ALL EXISTING LOW VOLTAGE WIRING FOR FIRE ALARM/SECURITY, SOUND, AND/OR TELECOMMUNICATIONS THAT IS NOT REUSED SHALL BE REMOVED...
17. CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN CUTTING SLAB SO AS TO AVOID DAMAGE TO ANY EXISTING CONDUITS, PIPING, ETC...
18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING, RELOCATING, AND/OR RECONNECTING ALL EXISTING EQUIPMENT THAT IS TO REMAIN...
19. IN THE EVENT THAT ELECTRICAL PLANS CALL FOR EXISTING WIRING TO BE REUSED...
20. ALL WIRING NOT INDICATED FOR REUSE SHALL BE DISCONNECTED AND REMOVED FROM LOAD TO SOURCE...
21. PANELBOARD CABINETS SHALL NOT BE USED FOR OTHER PURPOSES THAN CIRCUIT BREAKER INSTALLATIONS...
22. ALL UNUSED OUTLET BOXES THAT ARE TO REMAIN SHALL BE PROVIDED WITH MATCHING BLANK COVERS.

GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND ALL OTHER DISCIPLINES INVOLVED IN THIS PROJECT.
1.1. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS AND APPLICABLE DRAWINGS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.
1.2. VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, VOICE/DATA DEVICES AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO INSTALLATION...
1.3. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS...
2. THE CONDUITS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE...
3. ALL CONTRACTOR SUPPLIED MATERIALS SHALL BE NEW AND UL APPROVED...
4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER...
5. UNLESS OTHERWISE STATED, ALL ABOVE GROUND WIRING SHALL BE IN CONDUIT...
6. ALL WIRING SHALL BE RUN CONCEALED IN CONDUIT UNLESS SPECIFIED OTHERWISE.
7. CONTRACTOR SHALL USE TRAPEZE TO SUPPORT MULTIPLE CONDUITS FROM BUILDING STEEL.
8. SECURE ALL SUPPORTS TO BUILDING STRUCTURE BY STEEL FOR VERTICAL SUPPORT AND BY MEANS OF TOGGLE BOLTS ON HOLLOW MASONRY UNITS...
9. ALL CONDUIT INSTALLATIONS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION JOINT FITTINGS AS REQUIRED...
10. ALL UNDERGROUND CONDUITS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER OR GASES.
11. PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED...
12. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10 FT IN WHICH WIRING IS NOT INSTALLED.
13. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND...
14. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REGARDING ELECTRODE, GROUNDING AND BONDING REQUIREMENTS...
15. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT...
16. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS...
17. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
18. WIRE COLOR CODING, PER CODE, WHERE COLOR-CODED CABLE IS NOT AVAILABLE...
19. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F OR 0°C.
20. PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
21. ALL SWITCHES SHALL BE MOUNTED AT 48" [1219] (TOP OF THE TOGGLE SWITCH) ABOVE THE TOP OF FINISHED FLOOR...
22. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE...
23. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100FT AND AS INDICATED...
24. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES...
25. SUPPORT JOINTS AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
26. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT AND/OR ENGINEER PRIOR TO INSTALLATION.
27. FIRESTOP SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED WALLS...
28. PANELBOARDS, DISCONNECTS, AUTOMATIC TRANSFER SWITCHES, ETC., SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE...
29. ALL PANELS SHALL BE BALANCED AS EVENLY AS POSSIBLE ACROSS PHASES...
30. ALL SURFACE MOUNTED PANELS AND PANELBOARDS INSTALLED ON THE INSIDE FACE OF EXTERIOR WALLS...
31. ALL NEW ELECTRICAL PANELS SHALL BE LOCKABLE...
32. MCC OR PANEL COMPARTMENT DESIGNATIONS ARE AS INDICATED BELOW:
32.1. BLANK - NOT INTENDED FOR USE...
32.2. SPACE - CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN RANGE SHOWN.

- 33. SPARE - CONTAINS A COMPLETE BREAKER OR STARTER INSTALLED, SIZE AS INDICATED...
34. EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.
35. ALL DEVICES SHALL BE ADEQUATELY IDENTIFIED WITH PERMANENT LABELS OR TAGS...
36. CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY...
37. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS...
38. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
39. ALL TEMPORARY WIRING, LIGHTING AND POWER CIRCUITS AND DEVICES SHALL BE INSTALLED TO MEET THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE...
40. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT RECEPTACLES USED FOR HAND TOOLS AND OTHER MISCELLANEOUS EQUIPMENT SHALL BE INSTALLED WITH GROUND FAULT INTERRUPTER OR OTHER APPROVED AND RECOGNIZED INTERRUPTING DEVICES.
41. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS...
42. EXISTING FIREPROOFING PENETRATED OR DAMAGED DURING WORK SHALL BE BROUGHT BACK TO EXISTING RATING UPON COMPLETION OF WORK.
43. THE COMPLETE INSTALLATION SHALL BE TESTED AT COMPLETION OF WORK...
44. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK AND SHUTDOWNS OF EQUIPMENT WITH FACILITY.
45. EXCAVATION FOR UNDERSLAB OR UNDERGROUND INSTALLATION OF CONDUITS SHALL BE APPROACHED WITH EXTREME CAUTION...
46. ELECTRICAL CONTRACTOR SHALL PROVIDE CONSTRUCTION MANAGER/GENERAL CONTRACTOR A SURFACE PENETRATING RADAR SURVEY...
47. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, MOCF, REQUIRED FOR ALL EQUIPMENT PROVIDED BY OTHER CONTRACTORS...
48. UNLESS NOTED OTHERWISE WITHIN THE PROJECT CONSTRUCTION DOCUMENTS AND SPECIFICATIONS...
49. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE ELECTRICAL PLANS AND SPECIFICATIONS...
50. DURING THE COURSE OF CONSTRUCTION, COORDINATION AND FINAL TURNOVER, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO WORK CLOSELY WITH ALL CONTRACTORS...
51. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK...
52. ALL MECHANICAL/PLUMBING EQUIPMENT CONTROLS RATED 10V AND ABOVE SHALL BE WIRED BY A LICENSED ELECTRICIAN.
53. REFER TO STRUCTURAL DRAWINGS FOR SEISMIC DESIGN CATEGORY...
54. PROVIDE A SELF-ADHESIVE WHITE LABEL WITH BLACK LETTERS AT EACH FEEDER CONDUIT ENDS...
55. BUILDING 13 IS PROVIDED WITH A GENERATOR WHICH BACKS UP THE ENTIRE BUILDING...
56. SITE LIGHTING SHALL PROVIDE SSVT WITH ILLUMINATION LEVELS AND COLOR THAT ASSISTS IN PROPER IDENTIFICATION...

Table with 3 columns: NO., DESCRIPTION, DATE. Contains drawing revision information.

CONSULTANTS section listing HAZARDOUS MATERIALS, CIVIL/STRUCTURAL, ARCHITECTURAL, and PHYSICAL SECURITY firms with contact information.

ENGINEER OF RECORD section for Miller-Remick LLC, including company logo and contact details.

Professional Engineer seal for Anthony D. Pacheco, License No. 26413, State of Kansas.

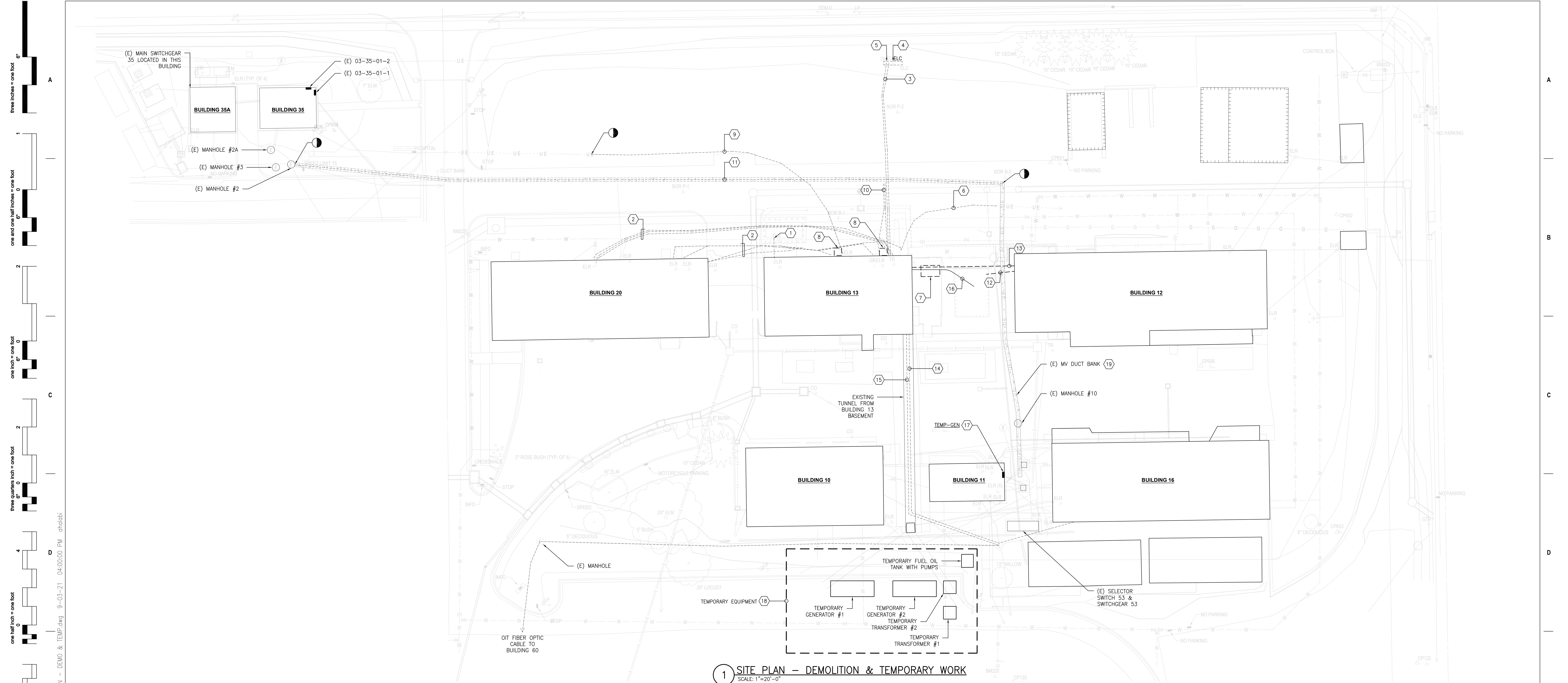
Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs logo.

Table with 2 columns: Drawing Title (ELECTRICAL NOTES) and Approved (Project Director).

Table with 2 columns: Phase (100% BID SET) and Fully Sprinklered.

Table with 3 columns: Project Title (INSTALL NEW BOILERS IN BUILDING 13), Location (ROBERT J. DOLE VA MEDICAL CENTER), and Issue Date (2021-09-03).

Table with 2 columns: Project Number (589A7-18-302) and Drawing Number (E-002).



1 SITE PLAN - DEMOLITION & TEMPORARY WORK  
SCALE: 1"=20'-0"

**GENERAL SHEET NOTES:**

- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101 FOR CONSTRUCTION PHASING NOTES.
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET E-600 FOR TEMPORARY EQUIPMENT AND CONNECTION POINT TO EXISTING EQUIPMENT. COORDINATE LOCATION OF TEMPORARY EQUIPMENT WITH THE VA.
- REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM.
- THE CONTRACTOR SHALL COORDINATE ELECTRICAL DEMOLITION OF BUILDING ARCHITECTURAL, PIPING AND MECHANICAL EQUIPMENT AS PER EACH DISCIPLINE DEMOLITION DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. UNLESS NOTED OTHERWISE, PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- UNLESS NOTED OTHERWISE, ALL ITEMS SHOWN DASHED SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- CIRCUITS SHOWN AS DEMOLISHED SHALL INCLUDE THE REMOVAL OF ALL CONDUIT, WIRING AND CONNECTION TO EQUIPMENT, UNLESS NOTED OTHERWISE.
- REMOVE ALL ABANDONED AND EMPTY CONDUITS.
- EMBEDDED CONDUIT SHALL BE CUT 1" [27] BELOW TOP OF CONCRETE SURFACE. REMOVE ALL WIRING BACK TO SOURCE AND SEAL PENETRATIONS (WITH CONCRETE) AT BOTH ENDS.
- ALL WALL PENETRATIONS SHALL BE PATCHED UPON REMOVAL OF CONDUITS.
- THE CONTRACTOR SHALL NOTE THE PRESENCE OF ASBESTOS. REFER TO ACM DRAWINGS AND SPECIFICATIONS.
- NOT ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ARE SHOWN ON THE DEMOLITION PLANS. THE CONTRACTOR SHALL REMOVE ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ASSOCIATED WITH DEMOLISHED EQUIPMENT/DEVICES.

**SHEET KEYNOTES:**

- REMOVE U/G CONDUITS AND WIRES BETWEEN BOILER PLANT AND EBS TANK. REFER TO SHEET 13-ED111.01.
- REMOVE U/G CONDUITS AND CABLES BETWEEN BOILER PLANT AND BUILDING 20. REFER TO SHEETS 13-ED111.01 AND 20-ED111.01.
- REMOVE U/G CONDUIT AND WIRES TO TRAILER PANEL.
- REMOVE "TRAILER" PANEL AND ALL ASSOCIATED CONDUITS, WIRES AND CONNECTIONS. PANEL IS MOUNTED ON UNISTRUT FRAME AND HAS (5) PVC CONDUITS THAT FEED ADJACENT TRAILERS; PVC CONDUITS ARE ROUTED ABOVE GROUND. REMOVE GF RECEPTACLE ADJACENT TO PANEL. REMOVE UNISTRUT FRAME. REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM. REFER TO SHEET E-703 FOR PANEL SCHEDULE.
- REMOVE 12"x12" [305 X 305] PVC JUNCTION BOX AND ASSOCIATED CONDUIT AND CABLES BACK TO BUILDING 13.
- REMOVE U/G CONDUITS AND CABLES BETWEEN BOILER PLANT AND BUILDING 12. REFER TO SHEET 12-ED111.01. ROUTING UNVERIFIED.
- EXISTING GENERATOR TO BE RELOCATED. REFER TO SHEET 13-ED101.01.
- OUTDOOR TRANSFORMER AND ASSOCIATED CONCRETE PAD TO BE REMOVED. TRANSFORMER SHALL BE RELOCATED INTO BUILDING 13 FOR TEMPORARY USAGE. REFER TO SHEET 13-ED111.01 FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF U/G CONDUIT AND WIRES. FEED FOR PANEL LOCATED IN BUILDING 35. FEEDER ORIGINATES FROM 75KVA TRANSFORMER OUTSIDE OF BUILDING 13. REFER TO SHEET 13-ED111.01.
- REMOVE U/G CONDUIT AND WIRES TO BUILDING 35. ABANDONED FEED ORIGINATING FROM PANEL G2 IN BUILDING 13. REFER TO SHEET 13-ED111.01 FOR LOCATION OF PANEL G2. ROUTING UNVERIFIED. REMOVE ENTIRE RUN OF CONDUCTORS BETWEEN BUILDING 13 AND BUILDING 35.
- REMOVE PORTION OF U/G MEDIUM VOLTAGE DUCT BANK TO BE RE-ROUTED OUTSIDE OF FOOTPRINT OF BUILDING 13 ADDITION.
- DISCONNECT AND REMOVE BRANCH CIRCUITS ORIGINATING FROM BUILDING 12 AND TERMINATING INTO DEVICES AT CANOPY BETWEEN BUILDING 12 AND BUILDING 13. REFER TO SHEET 12 FOR LOCATION OF PANEL.
  - (1) 3/4" [21] AND WIRING TO FLOOD LIGHT LOCATED UNDER CANOPY, ORIGINATING FROM JUNCTION BOX ON EXTERIOR NW CORNER OF BUILDING 12. REMOVE FLOOD LIGHT UNDER CANOPY.
  - (1) 3/4" [21] AND WIRING TO WEATHERPROOF RECEPTACLE ON EAST SIDE OF CANOPY, ORIGINATING FROM PANEL WITHIN BUILDING 12. REMOVE RECEPTACLE.
- DISCONNECT AND REMOVE OVERHEAD CONDUITS ROUTED BETWEEN BUILDING 13 AND BUILDING 12. REFER TO SHEET 12-ED111.01 FOR ADDITIONAL INFORMATION.
- EXISTING CATV FIBER OPTIC CABLE ORIGINATING FROM BUILDING 16 TO BE REPLACED IN KIND. REMOVE ENTIRE RUN OF FIBER OPTIC CABLE. RETAIN EXISTING PATHWAY FROM SOURCE AT BUILDING 16 TO TUNNEL ENTRANCE AT BUILDING 13. REFER TO SHEET 13-ED111.01 FOR CONTINUATION.
- EXISTING OIT FIBER OPTIC CABLE ORIGINATING FROM BUILDING 60 WILL BE REPLACED IN KIND. REMOVE ENTIRE RUN OF FIBER OPTIC CABLE. RETAIN EXISTING PATHWAY FROM SOURCE AT BUILDING 60 TO TUNNEL ENTRANCE AT BUILDING 13. REFER TO SHEET 13-ED111.01 FOR CONTINUATION.
- TEMPORARY CONDUITS WITH FEEDERS/WIRES FROM RELOCATED EXISTING GENERATOR. REFER TO SHEET ES101 FOR NEW LOCATION OF EXISTING GENERATOR. REFER TO SHEET 13-EP121.01 FOR ROUTING AND TIE-IN POINT WITHIN BUILDING 13.
- APPROXIMATE LOCATION OF TEMPORARY PANEL "TEMP-GEN". REFER TO SHEETS E-602 AND E-702 FOR ADDITIONAL INFORMATION.
- PROVIDE THE FOLLOWING TEMPORARY EQUIPMENT. REFER TO SHEET E-600.
  - (2) TEMPORARY DIESEL ENGINE GENERATOR SETS IN ACCORDANCE WITH NFPA, UL, NEMA AND ANSI. PROVIDE A FACTORY-ASSEMBLED, WIRED (EXCEPT FOR FIELD CONNECTIONS), COMPLETE, FULLY AUTOMATIC ENGINE GENERATOR SYSTEM FULLY ENCLOSED IN A WEATHERPROOF SOUND ATTENUATED ENCLOSURE. RATINGS AS INDICATED ON SHEET E-600. PROVIDE 600 ON OUTSIDE OF EACH GENERATOR ENCLOSURE. PROVIDE (2) 30A, 120V BRANCH CIRCUITS FOR JACKET HEATER AND BATTERY CHARGER TO EACH GENERATOR SET. BRANCH CIRCUITS SHALL BE PROVIDED FROM TEMPORARY PANEL "TEMP-GEN" LOCATED IN BUILDING 11.
  - (2) TEMPORARY STEP-UP TRANSFORMERS, RATINGS AS INDICATED ON SHEET E-600.
  - FURNISH WITH A PORTABLE FUEL OIL TANK FOR 24 HOURS OF STANDBY OPERATION AT 100% LOAD. FURNISH ALL REQUIRED FUEL OIL PIPING, CONNECTIONS AND TRANSFER MEANS. PROVIDE POWER CONNECTION TO PUMPS AS NEEDED FROM TEMPORARY PANEL IN BUILDING 11.
  - LOCATE TEMPORARY GENERATOR A MINIMUM OF 25' [7620] FROM ANY BUILDING OPENINGS.
  - PROVIDE ALL CONTROL DEVICES, WIRING AND CONNECTIONS FOR AUTOMATIC OPERATION UPON LOSS OF NORMAL SOURCE POWER PLUS ALL ASSOCIATED RETRANSFER AND COOLDOWN CONTROLS.
  - EXISTING DUCT BANK FROM INDICATED POINT OF DISCONNECTION TO SELECTOR SWITCH 53 SHALL REMAIN. REMOVE MV FEEDERS BACK TO MANHOLE #2 NEAR BUILDING 35. CLEAN DUCTS FOR RE-UTILIZATION.

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot

P:\0492\_DWA\0492-0121 Wichita - Bobber\4 Drawings\1\_CoA\1\_Current\_Submittal\_Phase\8\_Electrical\03 ES100 - SITE PLAN - DEMO & TEMP.dwg 9-03-21 04:00:00 PM dholabi

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6590	<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246
<b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891	<b>MAGNA ENGINEERS</b> 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)509-2990
<b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (602)836-4232

**ENGINEER OF RECORD**

**Miller-Remick LLC**  
 M.E.P. & Structural Engineering  
 A Service Disabled Veteran Owned Small Business

1010 KINGS HIGHWAY SOUTH  
 CHERRY HILL, NEW JERSEY 08034  
 PHONE: (856)429-4000  
 FAX: (856)429-5025  
 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC  
 PROFESSIONAL ENGINEER

WILSON J. D. PACIO  
 LICENSED PROFESSIONAL ENGINEER  
 26413  
 9.3.2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL SITE PLAN DEMOLITION & TEMPORARY WORK**

Approved: Project Director

Phase

100% BID SET

FULLY SPRINKLERED

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
 ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS

Issue Date  
 2021-09-03

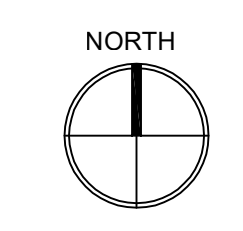
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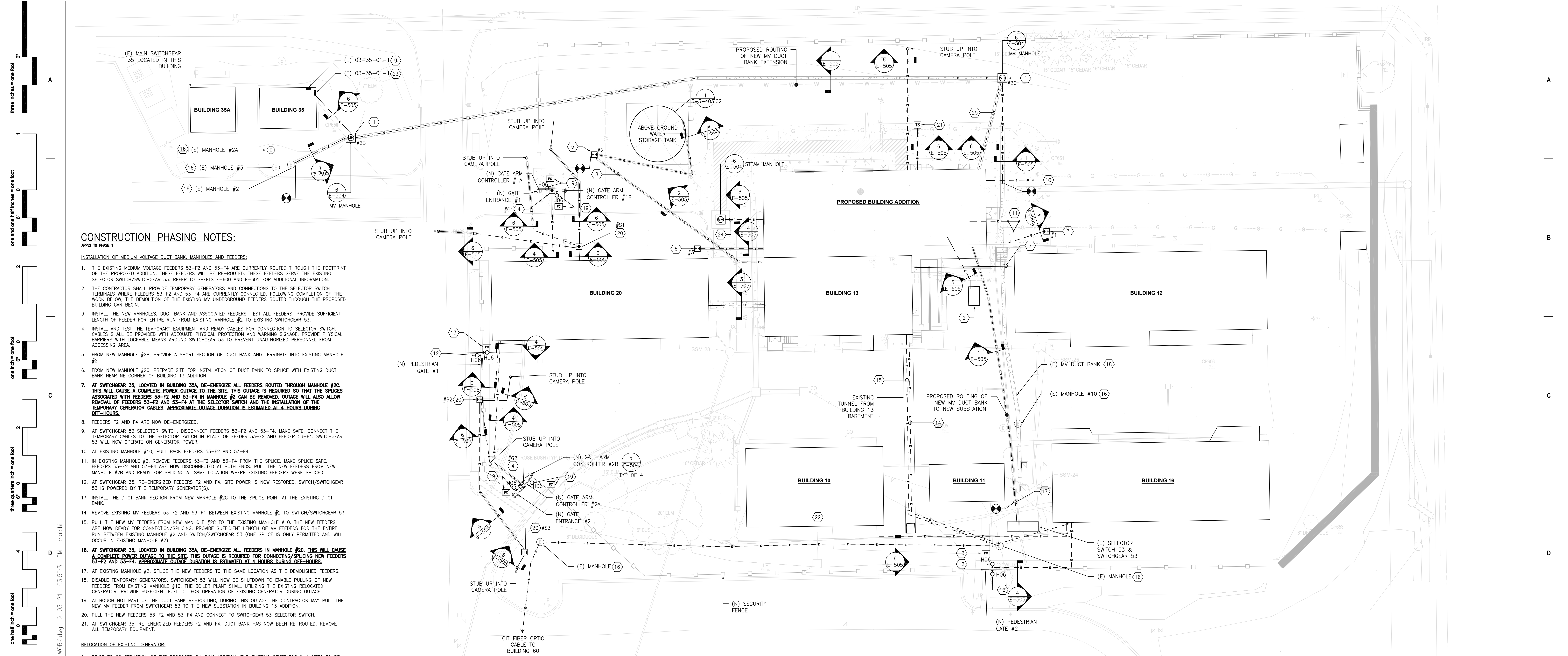
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Project Number  
 589A7-18-302

Building Number  
 ENERGY CMLPX

Drawing Number  
**ES100**





1 SITE PLAN - NEW WORK  
SCALE: 1"=20'-0"

CONSTRUCTION PHASING NOTES:  
APPLY TO PHASE 1

- INSTALLATION OF MEDIUM VOLTAGE DUCT BANK, MANHOLES AND FEEDERS:**
- THE EXISTING MEDIUM VOLTAGE FEEDERS 53-F2 AND 53-F4 ARE CURRENTLY ROUTED THROUGH THE FOOTPRINT OF THE PROPOSED ADDITION. THESE FEEDERS WILL BE RE-ROUTED. REFER TO SHEETS E-600 AND E-601 FOR ADDITIONAL INFORMATION.
  - THE CONTRACTOR SHALL PROVIDE TEMPORARY GENERATORS AND CONNECTIONS TO THE SELECTOR SWITCH TERMINALS WHERE FEEDERS 53-F2 AND 53-F4 ARE CURRENTLY CONNECTED. FOLLOWING COMPLETION OF THE WORK BELOW, THE DEMOLITION OF THE EXISTING MV UNDERGROUND FEEDERS ROUTED THROUGH THE PROPOSED BUILDING CAN BEGIN.
  - INSTALL THE NEW MANHOLES, DUCT BANK AND ASSOCIATED FEEDERS. TEST ALL FEEDERS. PROVIDE SUFFICIENT LENGTH OF FEEDER FOR ENTIRE RUN FROM EXISTING MANHOLE #2 TO EXISTING SWITCHGEAR 53.
  - INSTALL AND TEST THE TEMPORARY EQUIPMENT AND READY CABLES FOR CONNECTION TO SELECTOR SWITCH. CABLES SHALL BE PROVIDED WITH ADEQUATE PHYSICAL PROTECTION AND WARNING SIGNAGE. PROVIDE PHYSICAL BARRIERS WITH LOCKABLE MEANS AROUND SWITCHGEAR 53 TO PREVENT UNAUTHORIZED PERSONNEL FROM ACCESSING AREA.
  - FROM NEW MANHOLE #2B, PROVIDE A SHORT SECTION OF DUCT BANK AND TERMINATE INTO EXISTING MANHOLE #2.
  - FROM NEW MANHOLE #2C, PREPARE SITE FOR INSTALLATION OF DUCT BANK TO SPLICE WITH EXISTING DUCT BANK NEAR NE CORNER OF BUILDING 13 ADDITION.
  - AT SWITCHGEAR 35, LOCATED IN BUILDING 35A, DE-ENERGIZE ALL FEEDERS ROUTED THROUGH MANHOLE #2C. THIS WILL CAUSE A COMPLETE POWER OUTAGE TO THE SITE. THIS OUTAGE IS REQUIRED SO THAT THE SPLICES ASSOCIATED WITH FEEDERS 53-F2 AND 53-F4 IN MANHOLE #2 CAN BE REMOVED. OUTAGE WILL ALSO ALLOW REMOVAL OF FEEDERS 53-F2 AND 53-F4 AT THE SELECTOR SWITCH AND THE INSTALLATION OF THE TEMPORARY GENERATOR CABLES. APPROXIMATE OUTAGE DURATION IS ESTIMATED AT 4 HOURS DURING OFF-HOURS.
  - FEEDERS F2 AND F4 ARE NOW DE-ENERGIZED.
  - AT SWITCHGEAR 53 SELECTOR SWITCH, DISCONNECT FEEDERS 53-F2 AND 53-F4, MAKE SAFE, CONNECT THE TEMPORARY CABLES TO THE SELECTOR SWITCH IN PLACE OF FEEDERS 53-F2 AND FEEDER 53-F4. SWITCHGEAR 53 WILL NOW OPERATE ON GENERATOR POWER.
  - AT EXISTING MANHOLE #10, PULL BACK FEEDERS 53-F2 AND 53-F4.
  - IN EXISTING MANHOLE #2, REMOVE FEEDERS 53-F2 AND 53-F4 FROM THE SPLICE. MAKE SAFE. SPlice FEEDERS 53-F2 AND 53-F4 ARE NOW DISCONNECTED AT BOTH ENDS. PULL THE NEW FEEDERS FROM NEW MANHOLE #2B AND READY FOR SPLICING AT SAME LOCATION WHERE EXISTING FEEDERS WERE SPLICED.
  - AT SWITCHGEAR 35, RE-ENERGIZED FEEDERS F2 AND F4. SITE POWER IS NOW RESTORED. SWITCH/SWITCHGEAR 53 IS POWERED BY THE TEMPORARY GENERATOR(S).
  - INSTALL THE DUCT BANK SECTION FROM NEW MANHOLE #2C TO THE SPLICE POINT AT THE EXISTING DUCT BANK.
  - REMOVE EXISTING MV FEEDERS 53-F2 AND 53-F4 BETWEEN EXISTING MANHOLE #2 TO SWITCH/SWITCHGEAR 53.
  - PULL THE NEW MV FEEDERS FROM NEW MANHOLE #2C TO THE EXISTING MANHOLE #10. THE NEW FEEDERS ARE NOW READY FOR CONNECTION/SPLICING. PROVIDE SUFFICIENT LENGTH OF MV FEEDERS FOR THE ENTIRE RUN BETWEEN EXISTING MANHOLE #2 AND SWITCH/SWITCHGEAR 53 (ONE SPLICE IS ONLY PERMITTED AND WILL OCCUR IN EXISTING MANHOLE #2).
  - AT SWITCHGEAR 35, LOCATED IN BUILDING 35A, DE-ENERGIZE ALL FEEDERS IN MANHOLE #2C. THIS WILL CAUSE A COMPLETE POWER OUTAGE TO THE SITE. THIS OUTAGE IS REQUIRED FOR CONNECTING/SPLICING NEW FEEDERS 53-F2 AND 53-F4. APPROXIMATE OUTAGE DURATION IS ESTIMATED AT 4 HOURS DURING OFF-HOURS.
  - AT EXISTING MANHOLE #2, SPLICE THE NEW FEEDERS TO THE SAME LOCATION AS THE DEMOLISHED FEEDERS.
  - DISABLE TEMPORARY GENERATORS. SWITCHGEAR 53 WILL NOW BE SHUTDOWN TO ENABLE PULLING OF NEW FEEDERS FROM EXISTING MANHOLE #10. THE BOILER PLANT SHALL UTILIZE THE EXISTING RELOCATED GENERATOR. PROVIDE SUFFICIENT FUEL OIL FOR OPERATION OF EXISTING GENERATOR DURING OUTAGE.
  - ALTHOUGH NOT PART OF THE DUCT BANK RE-ROUTING, DURING THIS OUTAGE THE CONTRACTOR MAY PULL THE NEW MV FEEDER FROM SWITCHGEAR 53 TO THE NEW SUBSTATION IN BUILDING 13 ADDITION.
  - PULL THE NEW FEEDERS 53-F2 AND 53-F4 AND CONNECT TO SWITCHGEAR 53 SELECTOR SWITCH.
  - AT SWITCHGEAR 35, RE-ENERGIZED FEEDERS F2 AND F4. DUCT BANK HAS NOW BEEN RE-ROUTED. REMOVE ALL TEMPORARY EQUIPMENT.

RELOCATION OF EXISTING GENERATOR:

- PRIOR TO CONSTRUCTION OF THE PROPOSED BUILDING ADDITION, THE EXISTING GENERATOR WILL NEED TO BE RELOCATED. THE EXISTING GENERATOR WILL CONTINUE TO BE UTILIZED FOR EMERGENCY POWER AS IS CURRENTLY INSTALLED. ONCE THE NEW GENERATOR IS INSTALLED, TESTED AND COMMISSIONED, THE EXISTING GENERATOR WILL BE UTILIZED FOR EMERGENCY POWER TO SELECT EXTERNAL LOADS AS INDICATED ON SHEET E-602.
- INSTALL TEMPORARY CONDUIT AND FEEDER FROM "GEN" PULL BOX IN BOILER PLANT TO NEW LOCATION OF EXISTING GENERATOR. INSTALL TEMPORARY START CIRCUIT. PROVIDE PHYSICAL PROTECTION FOR FEEDER AND ADEQUATE SIGNAGE. FEEDER SHALL BE ROUTED IN SUCH A WAY TO ALLOW CONSTRUCTION OF RAMP WITH MINIMAL IMPACT TO FEEDERS. READY FEEDER FOR CONNECTION AT BOTH ENDS. REFER TO SHEET 13-EP101.01.
- INSTALL FUEL LINES PER MECHANICAL DRAWINGS.
- INSTALL UNDERGROUND PERMANENT FEEDER AND START CIRCUIT.
- DURING THE FOLLOWING STEP, THE BOILER PLANT WILL NOT HAVE EMERGENCY POWER. APPROXIMATE OUTAGE DURATION IS ESTIMATED AT 8 HOURS DURING OFF-HOURS.
- DISCONNECT THE EXISTING GENERATOR CONDUIT AND FEEDER FROM THE EXISTING GENERATOR TO "GEN" PULL BOX WITHIN THE BOILER PLANT. DISCONNECT THE START CIRCUIT. DISCONNECT THE FUEL LINES. RELOCATE THE GENERATOR AND CONNECT THE TEMPORARY FEEDER AT BOTH ENDS. CONNECT THE TEMPORARY START CIRCUIT. CONNECT THE TEMPORARY FUEL LINES.

RELOCATION OF SERVICES TO BUILDING 20 AND PANEL 03-35-01:

- THERE ARE MULTIPLE ELECTRICAL AND TELECOM SERVICES THAT ARE CURRENTLY ROUTED THROUGH THE FOOTPRINT OF BUILDING 13 ADDITION TO WHICH SERVE BUILDING 20. THESE SERVICES WILL BE RE-ROUTED. FOLLOWING THE COMPLETION OF THE WORK BELOW, THE EXISTING UNDERGROUND SERVICES BETWEEN BUILDINGS 13 & 20 CAN BE DEMOLISHED.
- INSTALL DUCT BANK BETWEEN BUILDING 13 & 20.
- INSTALL NEW HANDHOLE SERVING PANEL 03-35-01 AND ASSOCIATED DUCT BANK TO BUILDING 13.
- WITHIN BUILDING 20, PREPARE EXTENSIONS OF ELECTRICAL AND TELECOM FEEDERS TO EQUIPMENT AND READY FOR CONNECTION.
- WITHIN BUILDING 13, PREPARE EXTENSIONS OF ELECTRICAL AND TELECOM FEEDERS (SERVING BUILDING 20) WITHIN THE BOILER PLANT SUCH THAT THESE SERVICES ARE MINIMALLY INTERRUPTED DURING PHASE 3 DEMOLITION.
- THERE ARE TWO PANELS WITHIN BUILDING 20 THAT ARE SERVED FROM BUILDING 13. EACH OF THESE WILL REQUIRE AN OUTAGE. APPROXIMATE OUTAGE DURATION IS ESTIMATED AT 4 HOURS DURING OFF-HOURS.
- AT THE NORTHERN EXTERIOR WALL OF BUILDING 13, RELOCATE THE 75KVA TRANSFORMER THAT FEEDS PANEL 03-35-01 INTO BUILDING 13. CONNECT TEMPORARY FEEDER IN CONDUIT INSTALLED TO HANDHOLE #2. REFER TO SHEET 13-EP111.01 FOR NEW LOCATION OF TRANSFORMER.
- CONNECT RE-ROUTED TELECOM SERVICES.
- CONNECT RE-ROUTED ELECTRICAL FEEDERS.

GENERAL SHEET NOTES:

- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO CONSTRUCTION PHASING NOTES.
- REFER TO SHEET E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET ES100 FOR LOCATION OF TEMPORARY EQUIPMENT.
- REFER TO SHEETS E-501 THROUGH E-506 FOR DETAILS.
- REFER TO SHEET E-602 AND E-603 FOR NEW WORK SINGLE LINE DIAGRAMS.
- REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
- REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. UNLESS NOTED OTHERWISE, PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- ALL ABOVE-GRADE CONDUIT PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH WEATHERPROOF SEALANT.
- THE CONTRACTOR SHALL NOTE THE PRESENCE OF ASBESTOS. REFER TO ACM DRAWINGS AND SPECIFICATIONS.
- NOT ALL SITE UTILITIES ARE INDICATED ON THIS SHEET. REFER TO CIVIL DRAWINGS FOR COORDINATION OF UNDERGROUND UTILITIES WITH OTHER TRADES.
- CONDUITS, PULL BOXES AND JUNCTION BOXES SERVING SECURITY EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH TAMPER-PROOF SCREWS.

GROUNDING SYSTEM NOTES

- GROUNDING INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, CHAPTER 2 ARTICLE 250.
- GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS. THE RESISTANCE TO GROUND SHALL BE MEASURED BY "MEGGER", WRITTEN EVIDENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. IF GROUND RESISTANCE IS MORE THAN FIVE (5) OHMS ADD ADDITIONAL GROUND RODS IN COORDINATION WITH THE INSPECTOR AND ENGINEER.
- ALL GROUNDING CONNECTIONS SHALL BE CADWELD TYPE JOINS UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE UNLESS NOTED OTHERWISE.
- GROUNDING WIRES SHALL BE RUN UNDERGROUND BURIED AT A MINIMUM OF 30" [762] BELOW GRADE AND 24" [610] FROM FOUNDATION WALLS AND FOOTINGS. PROVIDE ADDITIONAL SLACK IN WIRE.
- TOP OF GROUND ROD SHALL BE 12" [305] MIN BELOW GRADE UNLESS NOTED OTHERWISE.
- GROUNDING WIRE RUNS BETWEEN POINTS OF CONNECTIONS SHALL BE AS SHORT AND STRAIGHT AS POSSIBLE.
- ALL EXPOSED GROUND COPPER WIRE SHALL BE COVERED WITH A COAT OF PROTECTIVE PAINT.
- THOROUGHLY CLEAN TO BARE METAL ALL SURFACES TO BE GROUNDED PRIOR TO CONNECTING GROUNDING WIRE.
- REFER TO SHEET E-503 FOR GROUNDING DETAILS.

SHEET KEYNOTES:

- PROVIDE MANHOLE WITH LOCKABLE COVER FOR RE-ROUTING OF MV FEEDERS. REFER TO DETAIL FOR ADDITIONAL WORK ASSOCIATED WITH DEVICES WITHIN MANHOLE.
- RELOCATE EXISTING GENERATOR. REFER TO SHEET 13-EP101.01 FOR TEMPORARY AND NEW FEEDS INTO BOILER PLANT.
- PROVIDE HANDHOLE WITH LOCKABLE COVER FOR FUTURE SECONDARY MV CABLE.
- PROVIDE HANDHOLE WITH BARRIER AND LOCKABLE COVER FOR GATE ARM CONTROLLERS. TO EACH OF THE ADJACENT GATE ARM CONTROLLERS, PROVIDE (1) 2" [53] WITH (2) #6 (POWER) AND (1) 2" [53] FOR SECURITY CABLES BY OTHERS; CONDUITS NOT SHOWN DUE TO SCALE. REFER TO DUCT BANK DETAIL 4/E-505.
- PROVIDE HANDHOLE WITH LOCKABLE COVER FOR INTERCEPTING AND RE-ROUTING OF FEEDER FROM BUILDING 13 TO BUILDING 35.
- PROVIDE HANDHOLE WITH LOCKABLE COVER FOR FUTURE SECONDARY OIT FIBER OPTIC CABLE AND FUTURE SECONDARY SECURITY FIBER OPTIC CABLE. LOCATE HANDHOLE IN GRASSY AREA NEAR BUILDING 20. UNDERGROUND CONDUIT SHALL BE STUBBED UP INTO BUILDING 13 ADDITION; REFER TO SHEET 13-EP111.02 FOR WORK WITHIN BUILDING 13.
- OVERHEAD CONDUITS WITH FEEDERS/CABLES TO BUILDING 12 ROUTED ALONG EXISTING PIPE RACK. REFER TO SHEETS 12-EP111.01 AND 13-EP121.01.
- NEW 1/2" CONDUIT AND FEEDER TO EXISTING PANEL 03-35-01-2 IN BUILDING 35. REFER TO SHEET 13-EP111.01 FOR ADDITIONAL INFORMATION. SPLICE NEW FEEDER WITH EXISTING FEEDER IN NEW HANDHOLE.
- APPROXIMATE LOCATION OF EXISTING PANEL 03-35-01-2. REFER TO SHEETS E-602 AND E-702. UPON COMPLETION OF PHASE 3 WORK, THE CONTRACTOR SHALL PROVIDE AN UPDATED SELF-ADHESIVE LABEL, AFFIXED TO THE PANEL COVER AND ON THE PANEL DIRECTORY. THIS LABEL SHALL INDICATE THE LOCATION AND SOURCE OF POWER OF THE PANEL.
- PROVIDE GROUND ROD WITH TEST POINT FOR GENERATOR GROUNDING. REFER TO GROUNDING DETAILS ON SHEET E-503. REFER TO SHEET 13-E-402.02 FOR ADDITIONAL INFORMATION.
- PROVIDE PHOTOCELL WITH NIPPLE ON GATE POST FOR CONTROL OF H06 FIXTURES. MOUNT ON SECURE SIDE OF GATE.
- PROVIDE 6-STRAND, MULTIMODE, CATV FIBER OPTIC CABLE ORIGINATING FROM BUILDING 16 TO THE NEW SECURITY ROOM IN BUILDING 13. UTILIZE THE EXISTING PATHWAY FROM SOURCE AT BUILDING 16 TO TUNNEL ENTRANCE AT BUILDING 13. REFER TO SHEET 13-EP101.01 FOR CONTINUATION. TOTAL RUN ESTIMATED AT 400 LF.
- PROVIDE 12-STRAND, MULTIMODE OIT FIBER OPTIC CABLE ORIGINATING FROM BUILDING 60 TO THE NEW IT ROOM IN BUILDING 13. UTILIZE THE EXISTING PATHWAY FROM SOURCE AT BUILDING 16 TO TUNNEL ENTRANCE AT BUILDING 13. REFER TO SHEET 13-EP101.01 FOR CONTINUATION. TOTAL RUN ESTIMATED AT 800 LF.
- PROVIDE LOCKABLE MANHOLE COVER AT EXISTING MANHOLE. THE CONTRACTOR SHALL VERIFY SIZE AND REQUIREMENTS OF COVER. PATCH GRADE AFTER COMPLETION OF REPLACEMENT.
- UNDER A SEPARATE SWITCHGEAR REPLACEMENT PROJECT, A SPARE CONDUIT FROM SWITCHGEAR 53 WILL BE ROUTED TO APPROXIMATELY THIS LOCATION AND TERMINATED INTO A HANDHOLE. UNDER THE BOILER REPLACEMENT PROJECT, THE CONTRACTOR SHALL REMOVE THE HANDHOLE AND PROVIDE AND CONNECT THE INDICATED DUCT BANK TO THIS SPARE CONDUIT.
- EXISTING DUCT BANK SHALL BE RE-UTILIZED TO PULL THE NEW MV FEEDERS FROM MANHOLE #2 TO SELECTOR SWITCH 53.
- PROVIDE STEEL POLE WITH LIGHTING FIXTURE AND PHOTOCELL. UTILIZED THE SAME BRANCH CIRCUIT AS THE GATE ARM CONTROLLER TO POWER THE LIGHTING FIXTURE; ROUTE CIRCUIT THROUGH PHOTOCELL. REFER TO DETAIL 7/E-504.
- PROVIDE HANDHOLE WITH LOCKABLE COVER FOR ROUTING OF SSTV CABLES TO SITE CAMERAS. LOCATE HANDHOLE IN GRASSY AREA. CABLES TO SITE CAMERAS ORIGINATE FROM BUILDING 13 SECURITY CLOSET AND ROUTED TO BUILDING 20. REFER TO SHEET 20-EP111.01. COORDINATE LOCATION OF HANDHOLE AND DUCT BANKS WITH SECURITY DRAWINGS.
- PROVIDE TAMPER SWITCH AT POST INDICATOR VALVE. COORDINATE EXACT LOCATION. CONNECT TO MODULE WITHIN MECHANICAL EQUIPMENT ROOM. REFER TO SHEET 13-EP111.02 FOR LOCATION OF MODULE. REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
- ROUTING OF SECURITY CONDUIT WITHIN BUILDING 10 IS NOT SHOWN. PROVIDE CONDUIT FOR CONNECTION TO CAMERA AT SW CORNER OF BUILDING 10. REFER TO SECURITY DRAWINGS.
- PROVIDE 120V CIRCUIT TO NEW MANHOLE #2B FOR CONNECTION OF SUMP PUMP AND LIGHTING FIXTURE WITHIN MANHOLE. REFER TO SHEET E-702 FOR PANEL SCHEDULE.
- PROVIDE 120V CIRCUIT TO NEW STEAM MANHOLE FOR CONNECTION OF SUMP PUMP AND LIGHTING FIXTURE WITHIN MANHOLE. REFER TO SHEET 13-EP111.01 FOR CONTINUATION.
- PROVIDE 120V CIRCUIT TO NEW STEAM MANHOLE #2C FOR CONNECTION OF SUMP PUMP AND LIGHTING FIXTURE WITHIN MANHOLE. REFER TO SHEET 13-E-402.02 FOR CONTINUATION.

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

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<b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891	<b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)290-2900
<b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD. UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232

**ENGINEER OF RECORD**

**Miller-Remick LLC**  
M.E.P. & Structural Engineering  
A Service Disabled Veteran Owned Small Business

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MR PROJECT NO: 0499-0121

**MILLER-REMICK LLC**  
PROFESSIONAL ENGINEER

**ANTHONY D. PAKIROU**  
LICENSED PROFESSIONAL ENGINEER  
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26413  
9.3.2021

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

**Electrical SITE PLAN NEW WORK**

Approved: Project Director

**Phase**

100% BID SET

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**Project Title**

INSTALL NEW BOILERS IN BUILDING 13

**Location**

ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS

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**Project Number**

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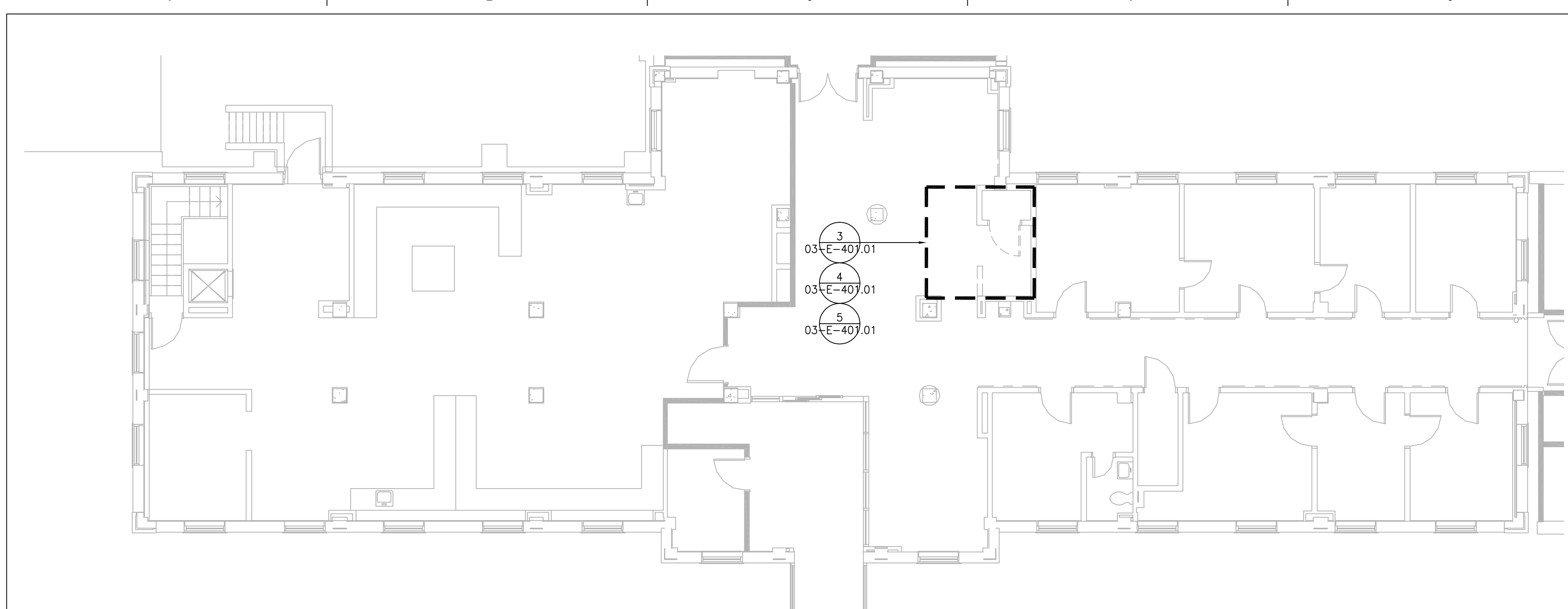
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ENERGY CMLPX

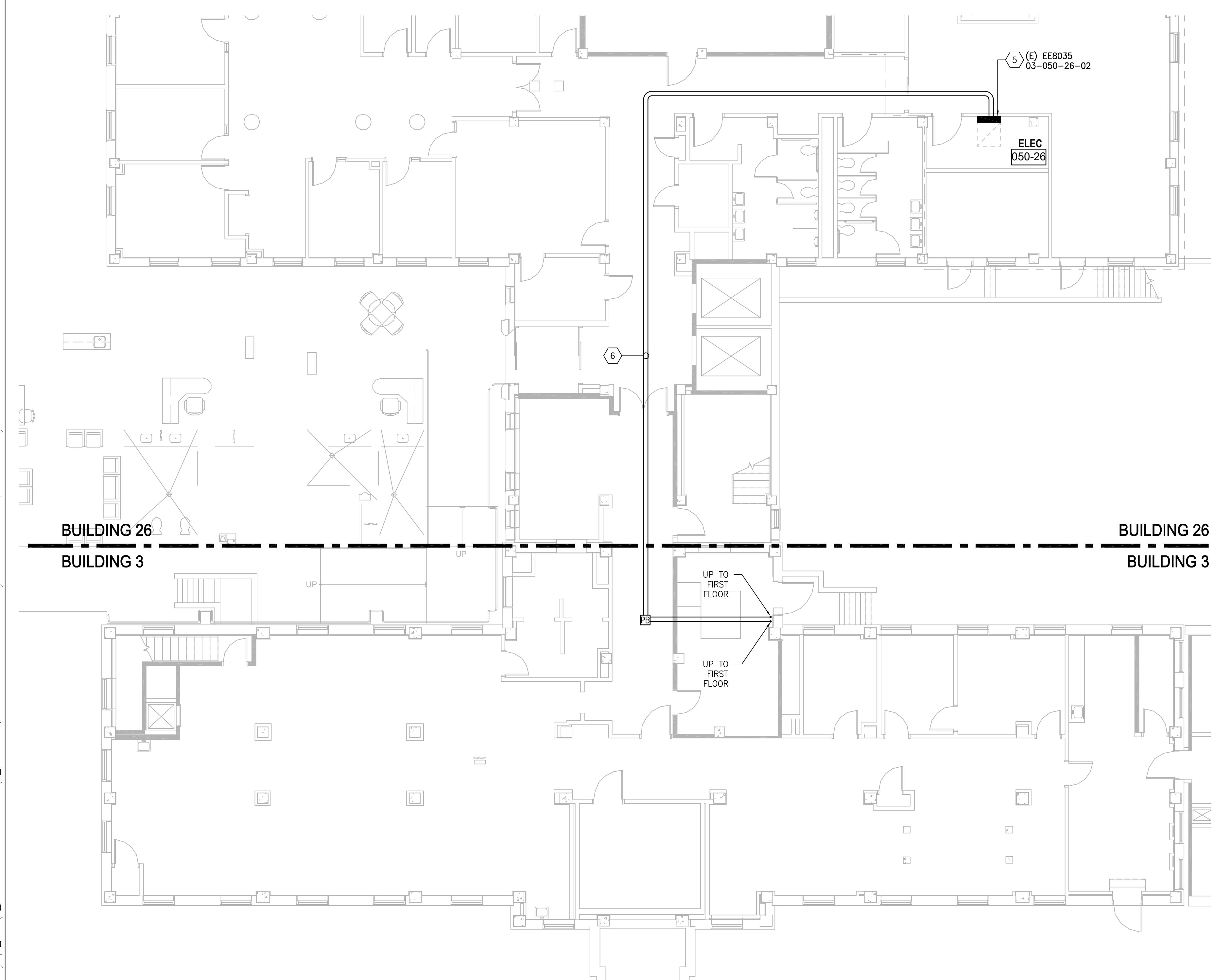
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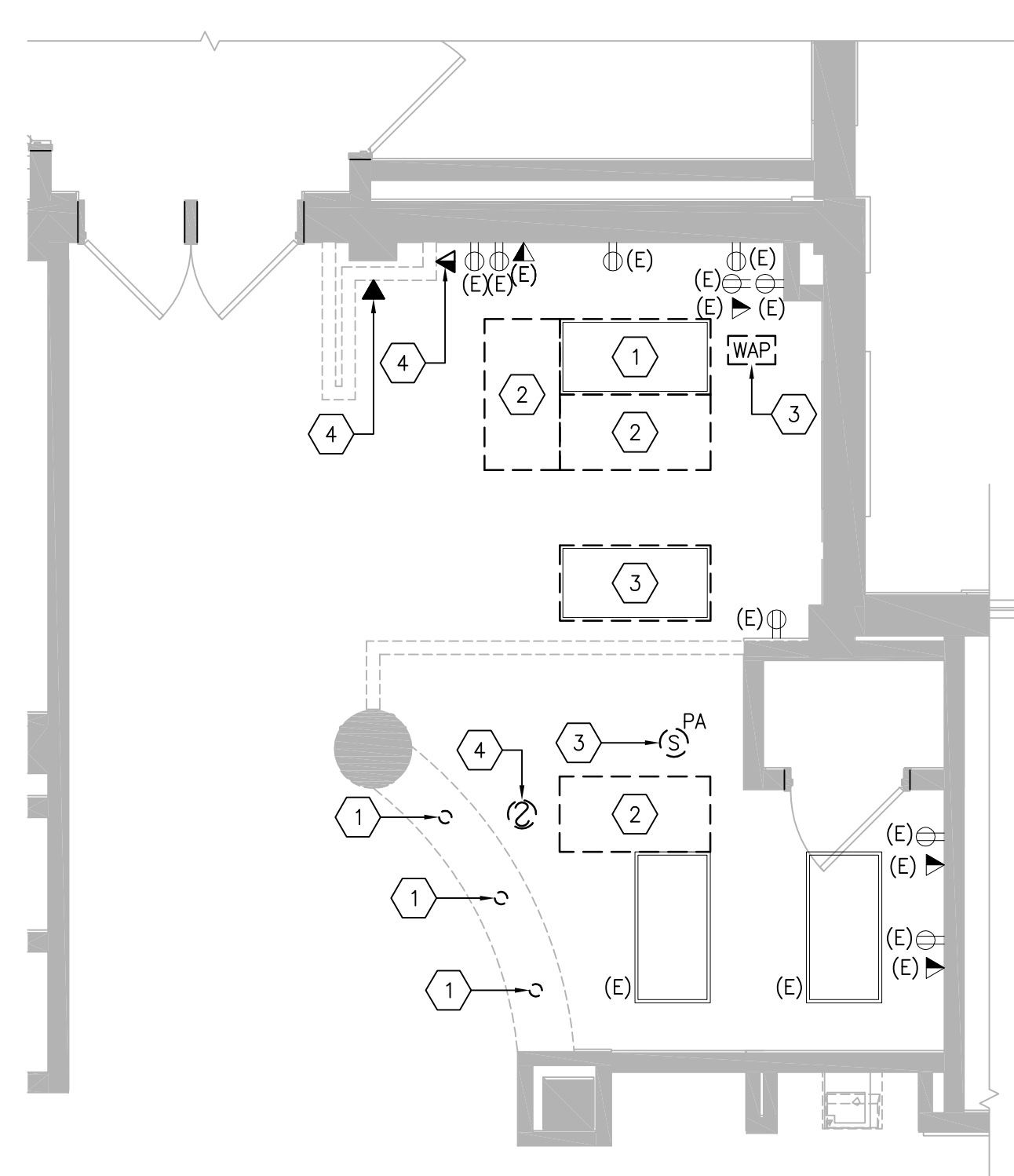
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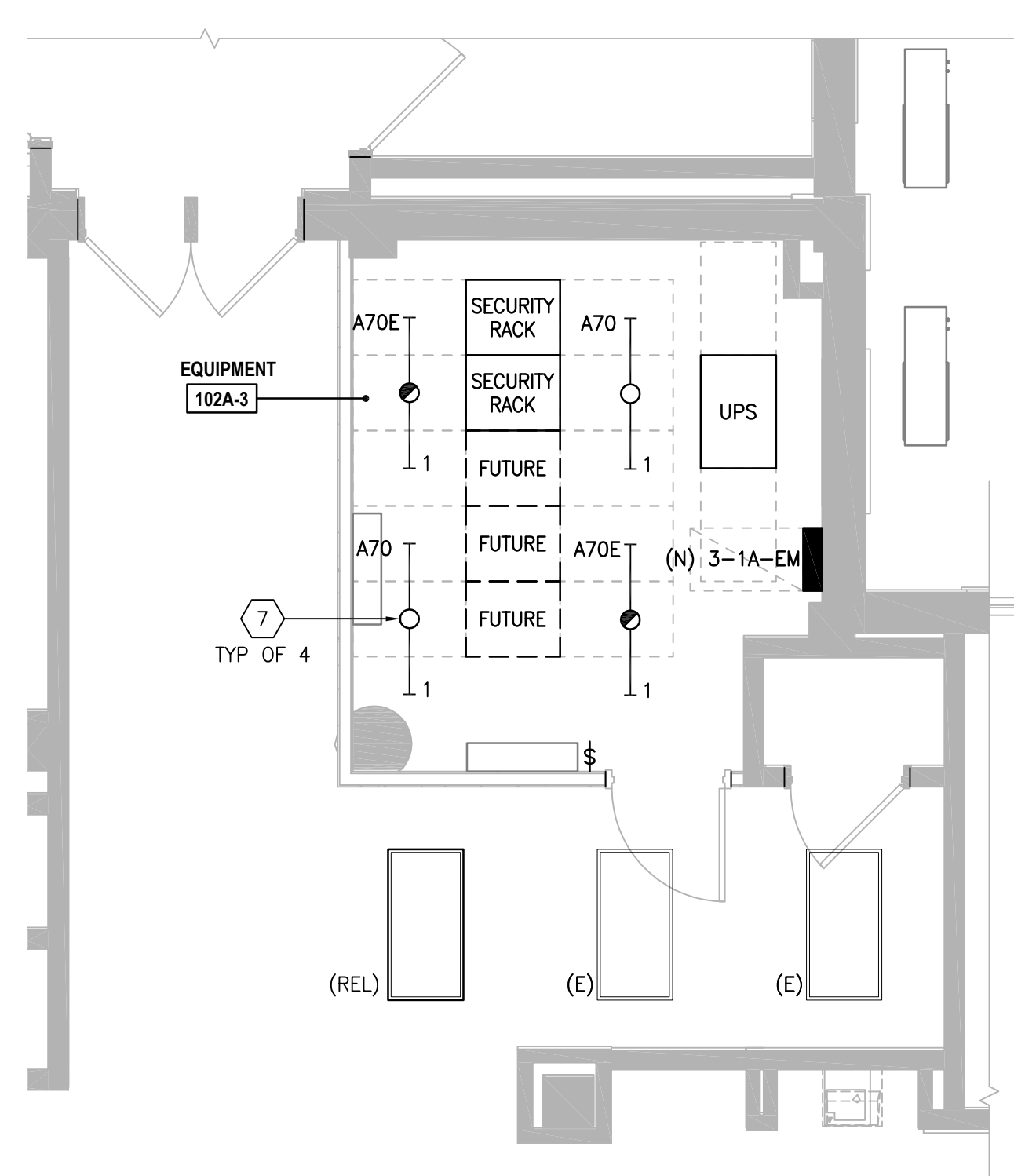
2 BUILDING 3 - FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"



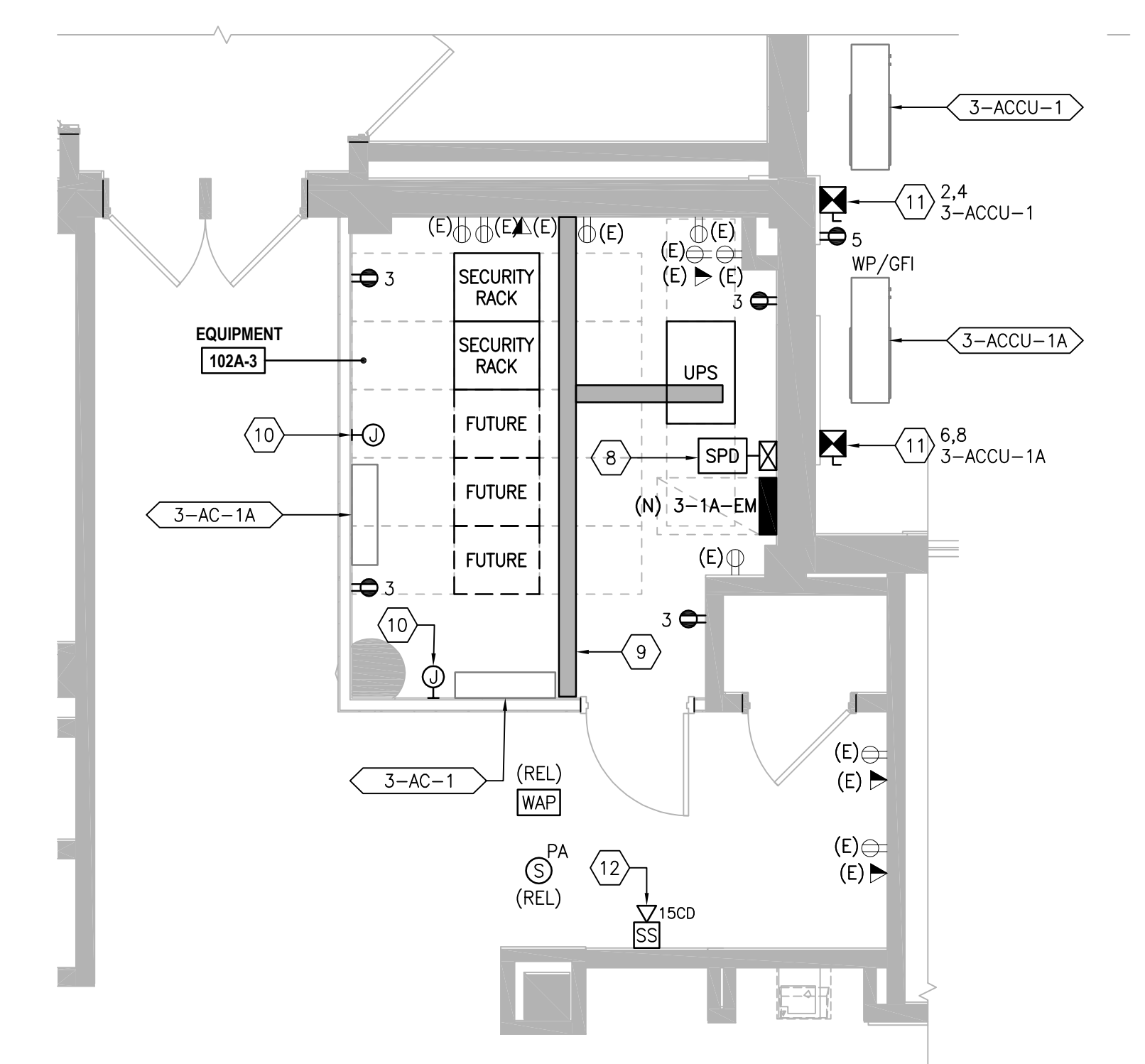
1 BUILDING 3 - GROUND FLOOR PLAN  
SCALE: 1/8" = 1'-0"



3 ENLARGED SECURITY ROOM - DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



4 ENLARGED SECURITY ROOM - LIGHTING PLAN  
SCALE: 1/4" = 1'-0"



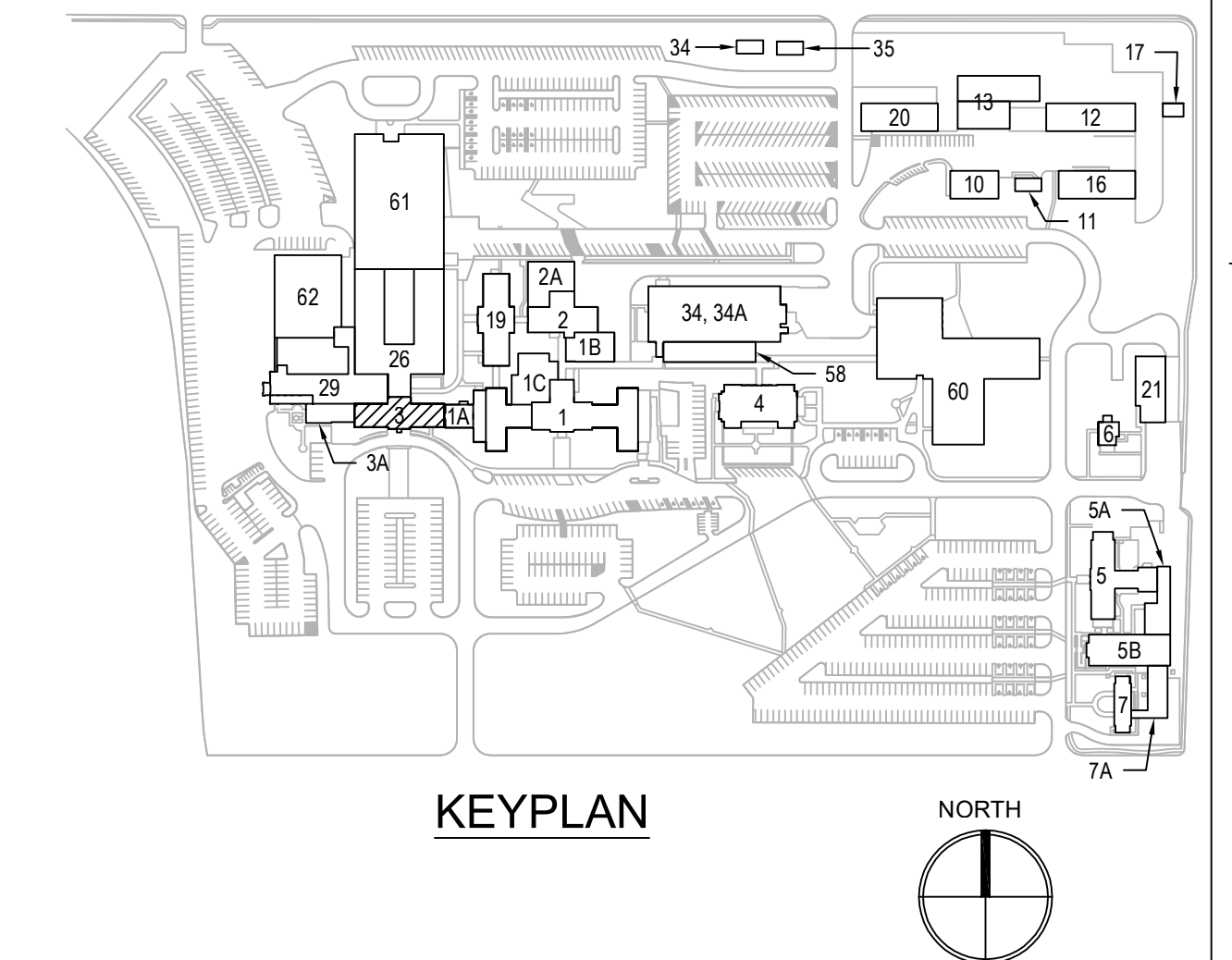
5 ENLARGED SECURITY ROOM - POWER & SYSTEMS PLAN  
SCALE: 1/4" = 1'-0"

**SHEET KEYNOTES:**

- DISCONNECT AND REMOVE LIGHTING FIXTURE AND ASSOCIATED CIRCUIT BACK TO SOURCE. CONTRACTOR SHALL VERIFY SOURCE.
- DISCONNECT AND REMOVE RADIANT HEAT PANEL AND ASSOCIATED CIRCUIT BACK TO SOURCE. CONTRACTOR SHALL VERIFY SOURCE.
- DISCONNECT DEVICE FOR RELOCATION.
- DISCONNECT AND REMOVE DEVICE AND ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. CONTRACTOR SHALL VERIFY SOURCE.
- EXISTING EMERGENCY DISTRIBUTION BOARD LOCATED IN BUILDING 26. PANEL IS BY SQUARE D, HCP 1-LINE, CAT NO. 12257126680190001, SERIES E1, 208/120V, 3ø 4W, 500A MCB. NEW BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANEL, AIC RATING TO MATCH EXISTING:
  - PROVIDE 100/3P BREAKER FOR FEEDER TO NEW PANEL 3-1A-EM LOCATED IN EQUIPMENT ROOM 102A-3
  - PROVIDE 175/3P BREAKER FOR FEEDER TO UPS ENCLOSED BREAKER LOCATED IN EQUIPMENT ROOM 102A-3.
- ROUTE CONDUITS AND FEEDERS ABOVE DROP CEILING AND UP TO INDICATED EQUIPMENT IN EQUIPMENT ROOM 102A-3. UTILIZE TAMPER-PROOF SCREWS FOR RACEWAYS/PULL BOX.
  - (4)#1 + (1)#80 IN 1-1/2" [38] TO PANEL 3-1A-EM
  - (4)#2/0 + (1)#6G IN 2" [53] TO UPS ENCLOSED BREAKER
- SUSPEND LIGHTING FIXTURE FROM STRUCTURE. BOTTOM OF FIXTURE SHALL BE 9'-0" [2740] AFF.
- PROVIDE 175A/3P ENCLOSED BREAKER WITH SPD FED FROM PANEL 03-050-26-02. CONNECT TO UPS WITH (4)#2/0 + (1)#6G IN 2" [53]. COORDINATE ELECTRICAL REQUIREMENTS WITH UPS SUPPLIER.
- PROVIDE 6"x6" [150x150] WIRE-TROUGH WITH HINGED COVER MOUNTED AT 9" AFF [2743] FOR ROUTING OF CABLES BETWEEN SECURITY RACK TO UPS. COORDINATE LOCATION WITH SECURITY RACKS AND UPS.
- PROVIDE (4)#14 IN 3/4" [21] TO ASSOCIATED OUTDOOR UNIT AND MAKE FINAL CONNECTIONS. INDOOR UNIT (AC) IS POWERED BY OUTDOOR UNIT (ACCU) AND IS PROVIDED WITH A DISCONNECT SWITCH. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT CHANNELS. CONNECT TO INDICATED CIRCUIT AND ACCU WITH (2)#10 + (1)#10G IN 3/4" [21].
- EXTEND EXISTING NAC CIRCUIT IN CORRIDOR TO CONNECT TO NEW NOTIFICATION DEVICE. PROGRAM NEW DEVICE INTO THE EXISTING FIRE ALARM SYSTEM. DEVICE SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM SERVING THIS BUILDING.

**GENERAL SHEET NOTES:**

- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEETS E-501 THROUGH E-506 FOR DETAILS.
- REFER TO SHEET E-702 FOR PANELBOARD SCHEDULES.
- UNLESS NOTED OTHERWISE, ALL ITEMS SHOWN DASHED SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- CIRCUITS SHOWN AS DEMOLISHED SHALL INCLUDE THE REMOVAL OF ALL CONDUIT, WIRING AND CONNECTION TO EQUIPMENT, UNLESS NOTED OTHERWISE.
- REMOVE ALL EXPOSED ABANDONED AND EMPTY CONDUITS.
- EMBEDDED CONDUIT SHALL BE CUT TO 1" [27] BELOW TOP OF CONCRETE SURFACE. REMOVE ALL WIRING BACK TO SOURCE AND SEAL PENETRATIONS (WITH CONCRETE) AT BOTH ENDS.
- ALL WALL PENETRATIONS SHALL BE PATCHED UPON REMOVAL OF CONDUITS.
- 120/208V CIRCUITS, UNLESS NOTED OTHERWISE, NUMERAL SHOWN ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT INDICATES THE CIRCUIT NUMBER ORIGINATING FROM PANEL 3-1A-EM
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- SECURITY RACKS AND UPS SHOWN IN EQUIPMENT ROOM 102A-3 SHALL BE FURNISHED AND INSTALLED BY THE SECURITY VENDOR. THE EC SHALL PROVIDE FEED TO UPS AND MAKE FINAL CONNECTIONS. COORDINATE ELECTRICAL REQUIREMENTS WITH UPS SUPPLIER.
- DEVICES/EQUIPMENT SHOWN AS RELOCATED SHALL BE RE-CONNECTED TO THE SAME CIRCUIT PREVIOUSLY FEEDING DEVICE AT ORIGINAL LOCATION. PROVIDE ADDITIONAL CONDUIT AND WIRE AS NEEDED.



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

CONSULTANTS	
<b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL / STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLAIR BEACH, FL 33786 PHONE: (602)836-4232

**ENGINEER OF RECORD**

**Miller-Remick LLC**  
 M.E.P. & Structural Engineering  
 A Service Disabled Veteran Owned Small Business

1010 KINGS HIGHWAY SOUTH  
 CHERRY HILL, NEW JERSEY 08034  
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 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC  
 PROFESSIONAL ENGINEER

ANTHONY D. PACIRO  
 LICENSED PROFESSIONAL ENGINEER  
 26413  
 KANSAS  
 9.3.2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL GROUND FLOOR & FIRST FLOOR PLANS**

Approved: Project Director

Phase

100% BID SET

FULLY SPRINKLERED

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
 ROBERT J. DOLE VA MEDICAL CENTER  
 WICHITA, KANSAS

Issue Date  
 2021-09-03

Checked  
 ARH

Drawn  
 ARH

Project Number  
 589A7-18-302

Building Number  
 3

Drawing Number  
**03-E-401.01**





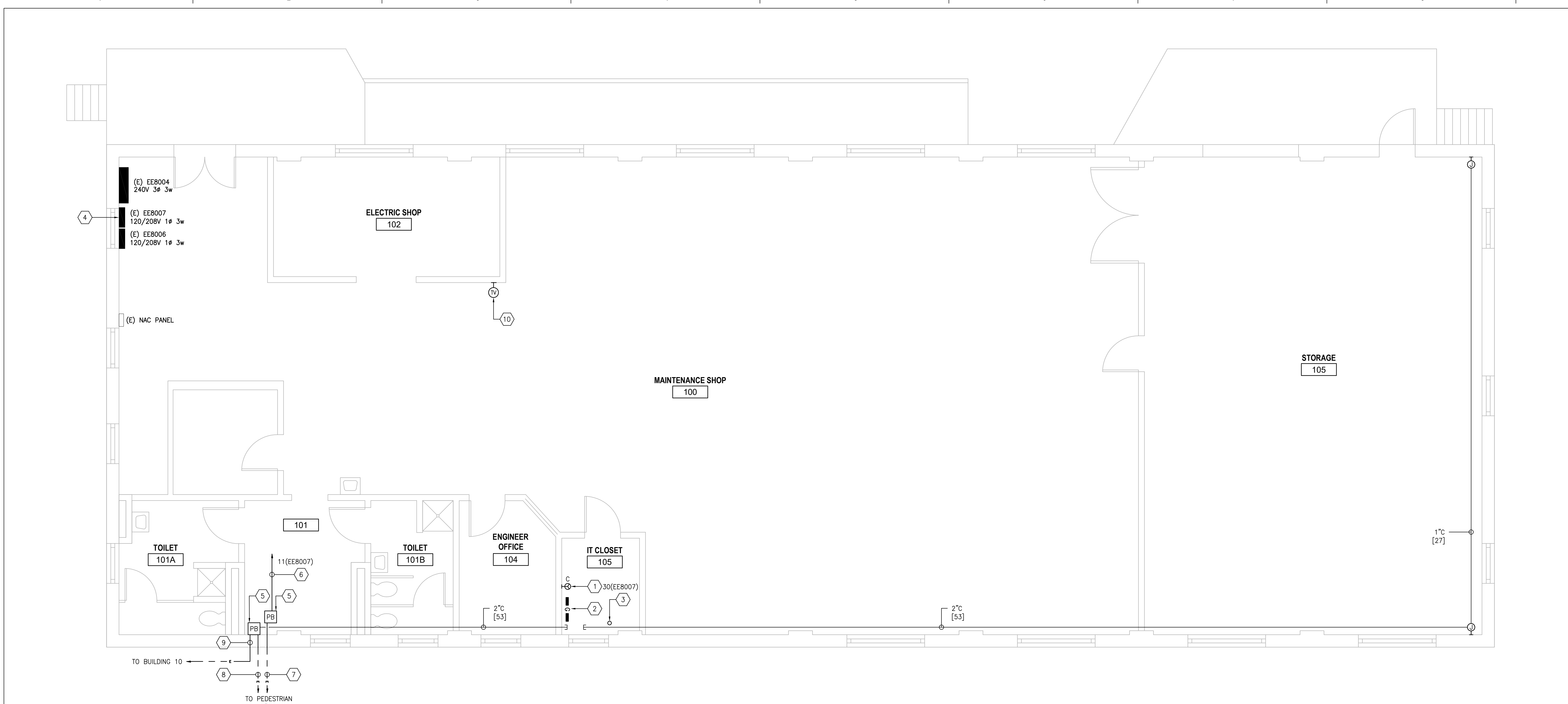
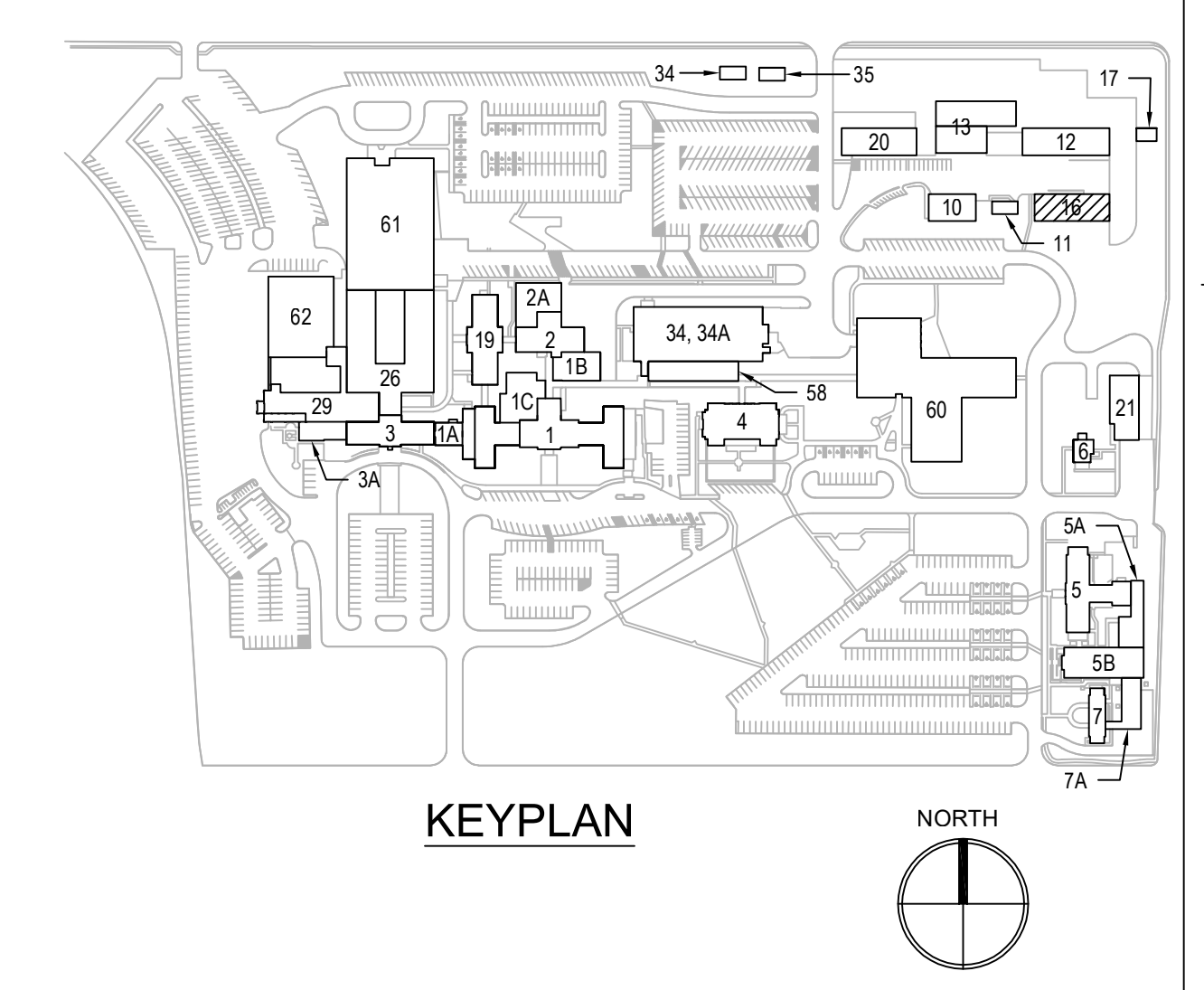
**GENERAL SHEET NOTES:**

1. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101.
2. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
3. REFER TO SHEET ES101 FOR SITE PLAN SHOWING NEW DUCT BANK(S) TO/FROM BUILDING 16.
4. REFER TO SHEET E-501 THROUGH E-506 FOR DETAILS.
5. REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE DIAGRAM.
6. REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
7. REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
8. REFER TO SHEET E-702 FOR PANELBOARD SCHEDULE.
9. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
10. UPON COMPLETION OF PHASE 3 WORK, THE CONTRACTOR SHALL PROVIDE, AS NEEDED, AN UPDATED SELF-ADHESIVE LABEL, AFFIXED TO THE PANEL COVER AND ON THE PANEL DIRECTORY. THIS LABEL SHALL INDICATE THE LOCATION AND SOURCE OF POWER OF THE AFFECTED PANEL(S).
11. REFER TO SHEET E-505 FOR DUCT BANK DETAILS FOR SIZE OF CONDUITS OUT TO SITE. SIZE OF CONDUIT SHALL BE THE SAME THROUGHOUT ENTIRE RUN OF CONDUIT UNLESS NOTED OTHERWISE.
12. COORDINATE LOCATION OF SECURITY PULL BOXES AND JUNCTION BOXES WITH SECURITY VENDOR.
13. CONDUITS, PULL BOXES AND JUNCTION BOXES SERVING SECURITY EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH TAMPER-PROOF SCREWS.
14. CONTRACTOR SHALL PROVIDE CAT6A CABLES FOR REPLACEMENT OF EXISTING CAT5 CABLES THAT ARE INDICATED TO BE REMOVED AND REPLACED.

**SHEET KEYNOTES:**

1. PROVIDE SURFACE-MOUNTED RECEPTACLE WITH RED COVER FOR CONNECTION OF NEW UPS (SECURITY). COORDINATE EXACT LOCATION WITH SECURITY EQUIPMENT. ROUTE (2)#10 + (1)#10G IN 3/4" [21] TO INDICATED CIRCUIT.
2. PROVIDE GROUND BUSBAR AND (1)#1/0G IN 3/4" [21] TO BUILDING STEEL. REFER TO DETAILS ON SHEET E-303.
3. EXISTING CATV FIBER OPTIC CABLE ROUTED TO BUILDING 13 SHALL BE REMOVED AND REPLACE IN KIND. THE EXISTING FIBER OPTIC CABLE CURRENTLY SERVES THE AMPLIFIER LOCATED IN THE EXISTING CATV CABINET IN THE EXISTING CONTROL ROOM OF BUILDING 13. THE CATV AMPLIFIER WILL BE RELOCATED TO THE NEW SECURITY ROOM WITHIN BUILDING 13. TO AVOID SPLICING AND EXTENDING THE EXISTING FIBER OPTIC CABLE, THE CONTRACTOR SHALL PROVIDE A NEW FIBER OPTIC CABLE AND CONNECT TO THE SAME LOCATION AS THE DEMOLISHED CABLE IN BUILDING 16. THE NEW FIBER OPTIC CABLE SHALL BE ROUTED THROUGH THE SAME RACEWAY AS THE DEMOLISHED CABLE (VIA THE TUNNEL). REFER TO SHEET 13-EP101.01 FOR CONTINUATION OF FIBER OPTIC CABLE INTO BUILDING 13. REFER TO SHEET 13-EP111.01 FOR LOCATION OF EXISTING CABLE TV CABINET IN EXISTING CONTROL ROOM. REFER TO SHEET 13-EP111.02 FOR LOCATION OF NEW SECURITY ROOM WHICH WILL HOUSE THE RELOCATED CATV AMPLIFIER. REFER TO SHEETS ES100 AND ES101 FOR GENERAL PATHWAY OF FIBER OPTIC CABLE.
4. EXISTING EMERGENCY PANEL FED FROM BUILDING 13. PROVIDE NEW BREAKERS AS INDICATED ON PANELBOARD SCHEDULE SHEET E-702.
5. PROVIDE PULL BOX MOUNTED AT 10' [3048] AFF.
6. PROVIDE (1) 1" [27] WITH (2)#8 + (1)#8G FROM INDICATED CIRCUIT FOR LIGHTING FIXTURES AT PEDESTRIAN GATE #2. WIRE SIZES HAVE BEEN ADJUSTED TO ACCOUNT FOR VOLTAGE DROP.
7. PROVIDE CONDUIT WITH (2)#8 + (1)#8G TO LIGHTING FIXTURES AT PEDESTRIAN GATE #2. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
8. PROVIDE CONDUIT FOR CABLES TO SECURITY DEVICES AT PEDESTRIAN GATE #2. CABLES AND SECURITY DEVICES BY SECURITY VENDOR. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
9. PROVIDE CONDUIT FOR CABLES TO SECURITY CAMERAS AT BUILDING 10. CABLES AND SECURITY CAMERAS BY SECURITY VENDOR. ROUTE CONDUIT DOWN EXTERIOR OF BUILDINGS TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
10. APPROXIMATE LOCATION OF TELEVISION OUTLET. THE CONTRACTOR SHALL REMOVE THE EXISTING RG6 CABLE BACK TO EXISTING CATV CABINET/AMPLIFIER LOCATED IN THE EXISTING CONTROL ROOM OF BUILDING 13. PROVIDE A NEW RG6 CABLE FROM THE RELOCATED AMPLIFIER IN BUILDING 13 SECURITY ROOM INSTALLED DURING PHASE 2. UTILIZE THE EXISTING RACEWAY TO BUILDING 13 TUNNEL ENTRANCE. ROUTING UNVERIFIED. REFER TO SHEET 13-EP101.01 FOR CONTINUATION INTO BUILDING 13. REFER TO SHEET 13-EP111.01 FOR LOCATION OF EXISTING CATV CABINET/AMPLIFIER. REFER TO SHEET 13-E-401.02 FOR NEW LOCATION OF EXISTING CATV AMPLIFIER. REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.

**1 POWER & SYSTEMS PLAN – FIRST FLOOR, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			<b>CONSULTANTS</b> <b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100			<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLSAIR BEACH, FL 33786 PHONE: (802)836-4232			<b>ENGINEER OF RECORD</b> <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121			MILLER-REMICK LLC PROFESSIONAL ENGINEER 			<b>Office of Construction and Facilities Management</b> VA U.S. Department of Veterans Affairs			Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN FIRST FLOOR, PHASE 1</b> Approved: Project Director			Phase 100% BID SET FULLY SPRINKLERED			Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b> Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS Issue Date 2021-09-03 Checked ARH Drawn ARH			Project Number 589A7-18-302 Building Number 16 Drawing Number <b>16-EP111.01</b>		
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P:\0492\_DVA\0499-0121 Wichita Boblers\Drawings\1\_CoA\Current\_Submittal\Phase 16-EP111.01 - Building 16 - First Floor, Phase 1.dwg 9-03-21 03:57:56 PM dmbab1  
 three eighths inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
 three inches = one foot  
 four inches = one foot  
 six inches = one foot  
 one foot = one foot

A  
B  
C  
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F





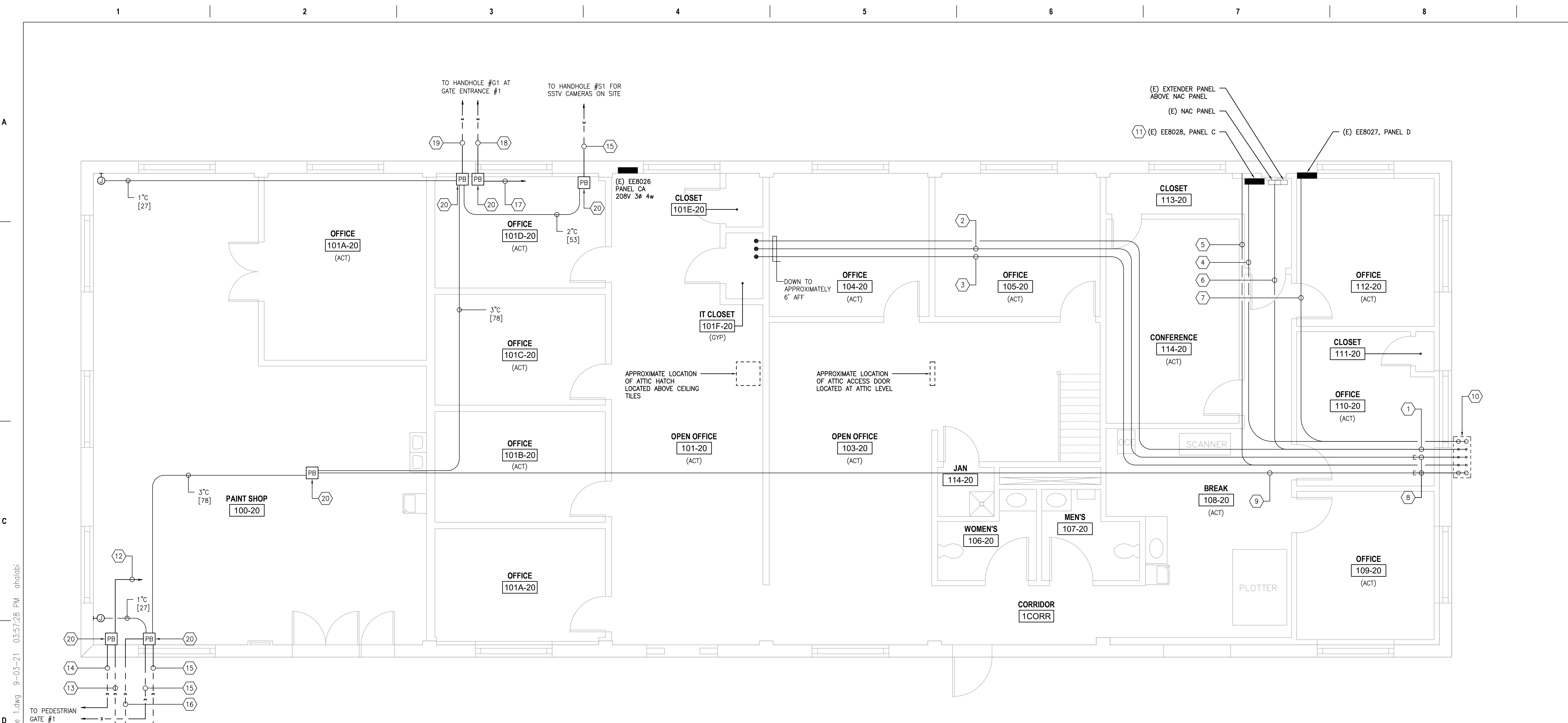
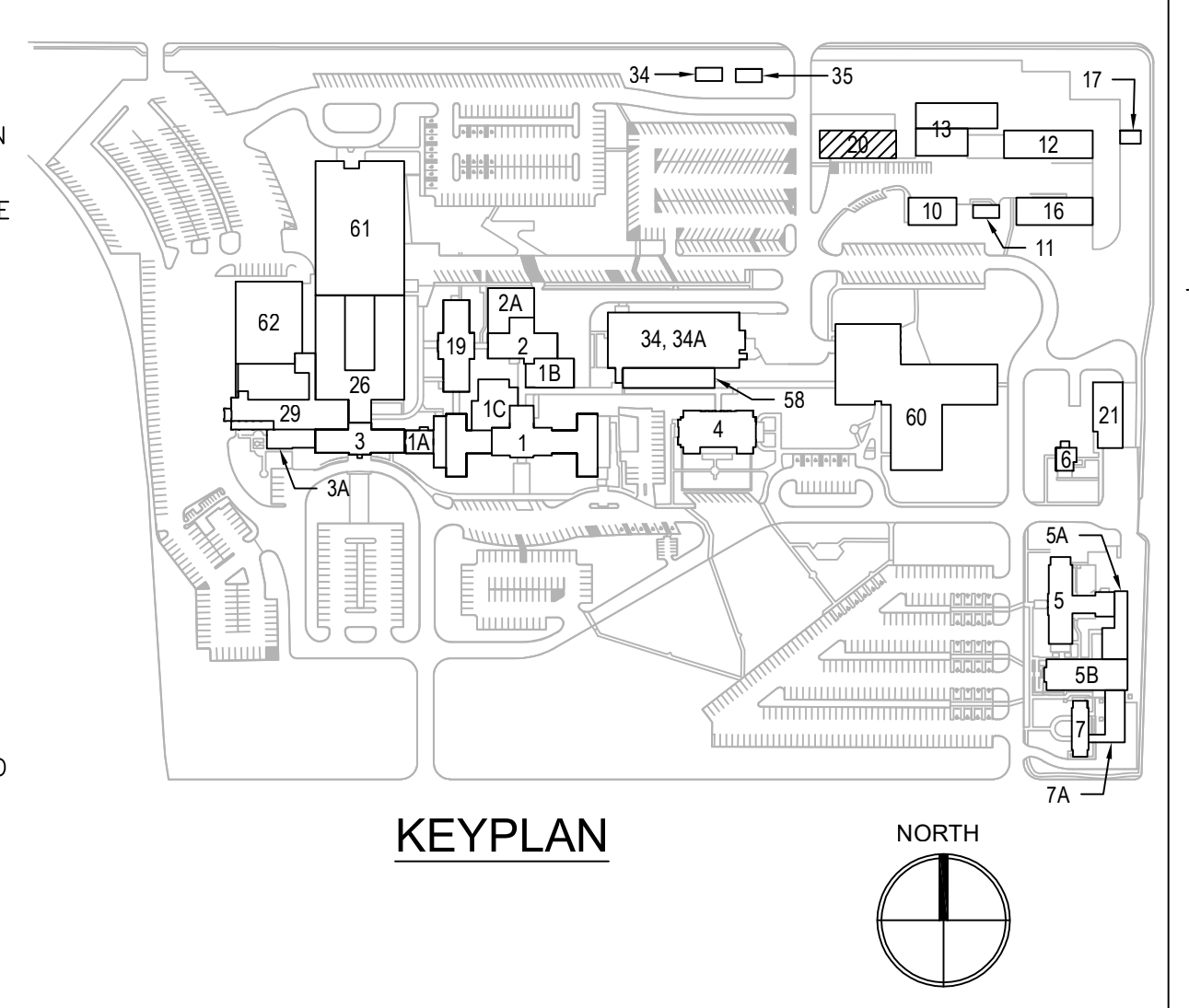
**SHEET KEYNOTES:**

- PROVIDE CONDUIT WITH CATV, TELE AND CAT6A CABLES FROM BUILDING 13. REFER TO SHEET 13-EP121.01.
  - (1) R66 CATV CABLE.
  - (2) 18/4 CL2P/CMP (TELEPHONE) CABLES
  - (1) CAT6A
- PROVIDE CONDUIT WITH 12-STRAND FIBER OPTIC CABLE ORIGINATING FROM BUILDING 13.
- PROVIDE CONDUIT WITH (1) 100 PAIR TELEPHONE COPPER CABLE AND #66 FROM BUILDING 13 SPLICE ENCLOSURE.
- PROVIDE CONDUIT WITH FEEDER TO PANEL C, CURRENTLY FED FROM PANEL G IN BUILDING 13.
- PROVIDE CONDUIT WITH (4)#8 + (1)#66 FROM INTERCEPTED POINT IN BUILDING 13. LOAD/SOURCE UNKNOWN.
- PROVIDE CONDUIT WITH FIRE ALARM CABLES FROM BUILDING 13 EXISTING FACP.
- PROVIDE CONDUIT WITH FEEDER TO PANEL D, CURRENTLY FED FROM PANEL A IN BUILDING 13.
- SPARE CONDUIT FROM BUILDING 13. TERMINATE INTO PULL BOX AND LABEL AS "SPARE". PULL BOX NOT SHOWN ON PLAN. LOCATE PULL BOX IN ATTIC SPACE.
- PROVIDE CONDUIT FOR ROUTING OF SECURITY CABLES FROM BUILDING 13 SECURITY ROOM.
- CONDUITS ORIGINATING FROM BUILDING 13, ROUTED IN DUCT BANK BETWEEN BUILDINGS 13 AND 20, AND UP INTO ATTIC SPACE OF BUILDING 20. PROVIDE BOLLARDS AT GRADE (NOT SHOWN) FOR PHYSICAL PROTECTION. REFER TO SHEET 13-EP121.01.
- PROVIDE (5) 20A/1P BREAKERS IN EXISTING PANEL. REFER TO SHEET E-702 FOR PANEL SCHEDULE. PROVIDE UPDATED PANEL DIRECTORY AND UPDATED PANEL LABEL WITH POWER SOURCE.
- PROVIDE 1-1/2" [41] WITH (3) 120V CIRCUITS IN ATTIC SPACE TO EXISTING PANEL C. WIRE SIZES HAVE BEEN ADJUSTED TO ACCOUNT FOR VOLTAGE DROP
  - (2)#6 + (1)#66 FOR LIGHTING FIXTURES AT PEDESTRIAN GATE #1 (CIRCUIT 37) WITH PIN ADAPTERS AND REDUCERS AT BOTH ENDS OF WIRES
  - (2)#6 + (1)#66 FOR GATE ARM CONTROLLER #2A (CIRCUIT 39) WITH PIN ADAPTERS AND REDUCERS AT BOTH ENDS OF WIRES
  - (2)#6 + (1)#66 FOR GATE ARM CONTROLLER #2B (CIRCUIT 41) WITH PIN ADAPTERS AND REDUCERS AT BOTH ENDS OF WIRES
- PROVIDE CONDUIT WITH (4)#6 + (2)#66 TO HANDHOLE AT GATE #2. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE CONDUIT WITH (2)#6 + (1)#66 TO LIGHTING FIXTURES AT PEDESTRIAN GATE #1. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE CONDUIT FOR CABLES TO SECURITY DEVICES ON SITE. CABLE AND SECURITY DEVICES BY SECURITY VENDOR. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE CONDUIT FOR CABLES TO HANDHOLE AT GATE #2. CABLES BY SECURITY VENDOR. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE 1-1/2" [53] WITH (2) 120V CIRCUITS IN ATTIC SPACE TO EXISTING PANEL C. WIRE SIZES HAVE BEEN ADJUSTED TO ACCOUNT FOR VOLTAGE DROP
  - (2)#6 + (1)#66 FOR GATE ARM CONTROLLER #1A (CIRCUIT 40) WITH PIN ADAPTERS AND REDUCERS AT BOTH ENDS OF WIRES
  - (2)#6 + (1)#66 FOR GATE ARM CONTROLLER #1B (CIRCUIT 42) WITH PIN ADAPTERS AND REDUCERS AT BOTH ENDS OF WIRES
- PROVIDE CONDUIT WITH (4)#6 + (2)#66 TO HANDHOLE AT GATE ENTRANCE #1. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE CONDUIT FOR CABLES TO HANDHOLE AT GATE #1. CABLES BY SECURITY VENDOR. ROUTE CONDUIT DOWN EXTERIOR OF BUILDING TO BELOW GRADE. REFER TO SHEET ES101 FOR ROUTING OF DUCT BANK.
- PROVIDE PULL BOX IN ATTIC SPACE.

**POWER & SYSTEMS PLAN -- FIRST FLOOR, PHASE 1**  
SCALE: 1/4" = 1'-0"

**GENERAL SHEET NOTES:**

- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101.
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET ES101 FOR SITE PLAN SHOWING NEW DUCT BANKS TO/FROM BUILDING 20.
- REFER TO SHEET 13-EP101.01 FOR LOCATION OF TELEPHONE SPLICE ENCLOSURE.
- REFER TO SHEET 13-EP111.01 FOR LOCATION OF PANEL A AND PANEL G.
- REFER TO SHEET 13-EP111.01 FOR LOCATION OF EXISTING CONTROL ROOM AND OFFICE CONTROL ROOM HOUSES EXISTING TELEPHONE CABINET, EXISTING CATV CABINET AND EXISTING IT RACK. OFFICE HOUSES THE EXISTING FACP.
- REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE DIAGRAM.
- REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
- REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- BUILDING 20 IS A SLAB ON GRADE BUILDING WITH A PITCHED ROOF. AN ATTIC SPACE IS ACCESSIBLE FROM TWO LOCATIONS AS INDICATED ON THE PLANS. THE ATTIC FLOOR IS APPROXIMATELY 12'-6" [3810] AFF. A FALSE CEILING SEPARATES THE ATTIC FROM THE LEVEL SHOWN. IF A CEILING TYPE WITHIN A SPACE IS INDICATED, 3'-4" [914-1249] OF CEILING SPACE IS AVAILABLE.
- UNLESS NOTED OTHERWISE, THE NEW CONDUITS SHOWN SHALL BE ROUTED WITHIN THE ATTIC SPACE.
- DESIGNATION OF (ACT) INDICATES AN ACOUSTICAL CEILING TILE CEILING WITHIN THE SPACE AT APPROXIMATELY 8'-6" [2590] AFF.
- DESIGNATION OF (GYP) INDICATES A GYPSUM CEILING WITHIN THE SPACE AT APPROXIMATELY 8'-6" [2590] AFF.
- UPON COMPLETION OF PHASE 3 WORK, THE CONTRACTOR SHALL PROVIDE, AS NEEDED, AN UPDATED SELF-ADHESIVE LABEL, AFFIXED TO THE PANEL COVER AND ON THE PANEL DIRECTORY. THIS LABEL SHALL INDICATE THE LOCATION AND SOURCE OF POWER OF THE AFFECTED PANEL(S).
- FOR SIZE OF CONDUITS ORIGINATING FROM BUILDING 13, REFER TO DUCT BANK DETAIL 3/E-505. SIZE OF CONDUIT SHALL BE THE SAME THROUGHOUT ENTIRE RUN OF CONDUIT.
- REFER TO SHEET E-505 FOR DUCT BANK DETAILS FOR SIZE OF CONDUITS OUT TO SITE. SIZE OF CONDUIT SHALL BE THE SAME THROUGHOUT ENTIRE RUN OF CONDUIT UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION OF SECURITY PULL BOXES AND JUNCTION BOXES WITH SECURITY VENDOR.
- CONDUITS, PULL BOXES AND JUNCTION BOXES SERVING SECURITY EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH TAMPER-PROOF SCREWS.
- CONTRACTOR SHALL PROVIDE CAT6A CABLES FOR REPLACEMENT OF EXISTING CAT6 CABLES THAT ARE INDICATED TO BE REMOVED AND REPLACED.



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<p><b>HAZARDOUS MATERIALS</b> MABBETT &amp; ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550</p>	<p><b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246</p>
<p><b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2891</p>	<p><b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990</p>
<p><b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p><b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232</p>

**ENGINEER OF RECORD**

<p><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-9022 MR PROJECT NO: 0499-0121</p>	<p>MILLER-REMICK LLC PROFESSIONAL ENGINEER</p>
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**Office of Construction and Facilities Management**

U.S. Department of Veterans Affairs

<p>Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN FIRST FLOOR, PHASE 1</b></p> <p>Approved: Project Director</p>	<p>Phase <b>100% BID SET</b></p> <p><b>FULLY SPRINKLERED</b></p>
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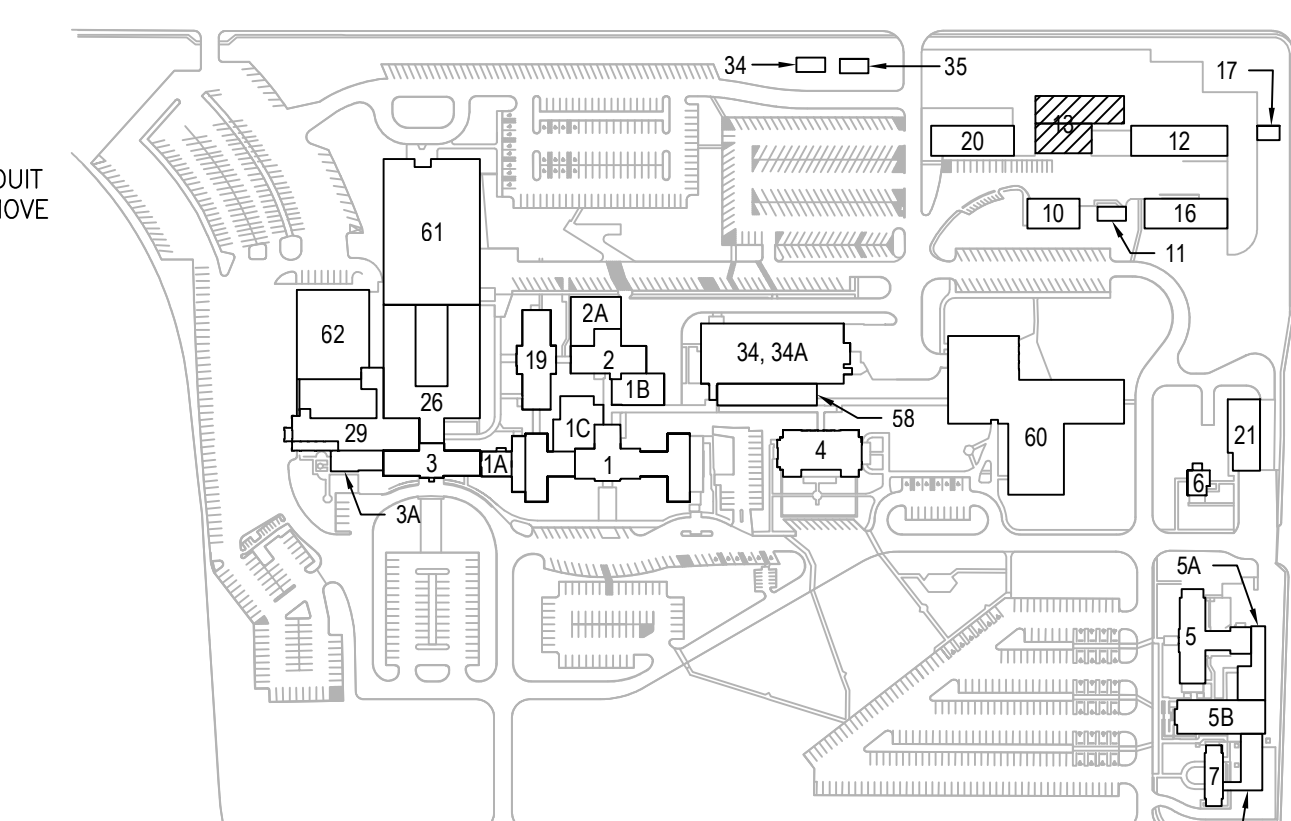
<p>Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b></p> <p>Location <b>ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</b></p> <p>Issue Date <b>2021-09-03</b></p> <p>Checked <b>ARH</b></p> <p>Drawn <b>ARH</b></p>	<p>Project Number <b>589A7-18-302</b></p> <p>Building Number <b>20</b></p> <p>Drawing Number <b>20-EP111.01</b></p>
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**SHEET KEYNOTES:**

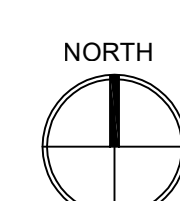
- REMOVE 2" [53] WITH (2) #18/4 FL2P AND (1) RG6 CABLE TO BUILDING 20.
- REMOVE 1-1/2" [41] WITH (1) FIBER OPTIC CABLE AND (1) #16 CL2 CABLE (NOT IN CONDUIT) TO BUILDING 20. FIBER OPTIC CABLE ORIGINATES FROM EXISTING IT RACK IN CONTROL ROOM. CL2 CABLE ORIGINATES FROM EXISTING CONTROL ROOM. REFER TO SHEET 20-ED111.01.
- REMOVE 2" [53] WITH (1) 100 PAIR TELEPHONE COPPER CABLE AND #66 TO BUILDING 20. TELEPHONE CABLE ORIGINATES FROM SPULCE ENCLOSURE. REFER TO SHEET 20-ED111.01.
- REMOVE 1-1/4" [35] WITH
  - (1) TELEPHONE CABLE AND (1) #66
  - (1) #16 CL2 TO 1-1/2" [41] TO BUILDING 20
  - (2) #18/4 FL2P AND (1) RG6 TO 2" [53] TO BUILDING 20
  - (1) TELEPHONE CABLE AND (1) GRAY TELEPHONE CABLE TO 2" [53] TO BUILDING 12
- REMOVE 2" [53] TO BUILDING 12 (UNVERIFIED).
  - (1) TELEPHONE CABLE AND (1) GRAY TELEPHONE CABLE TO 2" [53] TO BUILDING 12
  - (1) #16 CL2
- REMOVE EMPTY 3/4" [21] ORIGINATING FROM SPULCE BOX (FORMERLY PANEL BACKBOX) UP TO JUNCTION BOX ON EXTERIOR OF BUILDING 13 NEAR COLUMN D-E7. REFER TO SHEET 13-ED111.01.
- REMOVE 3/4" [21] WITH WIRING TO PANEL "F". LOAD UNVERIFIED.
- REMOVE 12"x12"x6" [305X305X152] PULL BOX MOUNTED TO UNDERSIDE OF STAIR LANDING.
- REMOVE 12"x12"x6" [305X305X152] PULL BOX SUSPENDED FROM CEILING.
- REMOVE 24"x6"x6" [610X152X152] WIRE TROUGH SUSPENDED FROM CEILING. REMOVE CONDUITS AND CABLES TO INDICATED ENCLOSURES. TELEPHONE CABLES ARE ROUTED THROUGH THIS WIRE TROUGH. CABLES SHALL BE REPLACED IN KIND FOR RE-ROUTING.
- DISCONNECT AND RELOCATE EXISTING GENERATOR SET INCLUDING ENCLOSURE, BATTERIES, CHARGER, ETC. REFER TO SHEETS ES101 AND 13-EP101.01.
- DISCONNECT AND REMOVE FEEDER TO "GEN" PULL BOX LOCATED ABOVE. REFER TO SHEET 13-ED111.01 FOR LOCATION OF PULL BOX.
- REMOVE 3/4" [21] LFMC ROUTED ALONG PAVEMENT AND UP INTO "GEN-ANNUN" PULL BOX LOCATED IN CONTROL ROOM. CONDUIT CONTAINS (4)#12 + (17)#14 WIRES. REFER TO SHEET 13-ED111.01 FOR LOCATION OF "GEN-ANNUN" PULL BOX.
- REMOVE 3/4" [21] LFMC ROUTED ALONG PAVEMENT AND UP INTO "GEN-ANNUN" PULL BOX LOCATED IN CONTROL ROOM. CONDUIT CONTAINS (10) #14 WIRES. REFER TO SHEET 13-ED111.01 FOR LOCATION OF "GEN-ANNUN" PULL BOX.
- DISCONNECT AND RELOCATE EPO MOUNTED TO BUILDING EXTERIOR FOR GENERATOR SHUTDOWN WITH (1) 3/4" [21] AND WIRING TO GENERATOR. CONDUIT ROUTED ALONG PAVEMENT. REFER TO SHEET EP101.01 FOR NEW LOCATION OF EPO.
- REMOVE 24"x24"x8" [610X610X203] EMPTY PULL BOX MOUNTED TO BUILDING EXTERIOR. SEAL 4" [103] CONDUIT SLEEVE BETWEEN PULL BOX AND BUILDING 13 PUMP ROOM CEILING SPACE.
- INTERCEPT CONDUIT WITH THE FOLLOWING CABLES. CABLES BETWEEN BUILDING 13 AND BUILDING 16 SHALL BE REMOVED IN THEIR ENTIRETY TO BE REPLACED IN KIND. THE EXISTING RACKWAY FROM POINT OF INTERCEPTION TO BUILDING 16 SHALL BE RE-UTILIZED. REFER TO SHEET 13-EP101.01 FOR EXTENSION OF CONDUIT AND ROUTING OF NEW CABLES:
  - (1) RG6 CABLE FROM THE EXISTING CATV CABINET IN THE EXISTING CONTROL ROOM TO THE TV OUTLET IN BUILDING 16. REFER TO SHEET 16-EP111.01 FOR LOCATION OF OUTLET.
  - (1) CATV FIBER OPTIC CABLE FROM BUILDING 16 IT ROOM TO THE EXISTING CATV CABINET IN THE EXISTING CONTROL ROOM.
  - (1) OIT FIBER OPTIC CABLE FROM THE EXISTING TELECOM CABINET IN THE EXISTING CONTROL ROOM TO BUILDING 60. REFER TO SHEETS ES101 AND E-604 FOR ADDITIONAL INFORMATION.
- REMOVE 1" [27] WITH FIRE ALARM WIRING UP TO CATWALK LEVEL. REFER TO SHEET 13-EP121.01 FOR CONTINUATION. CONDUIT SERVES BUILDING 16 FIRE ALARM PANEL. FIRE ALARM SERVICE SHALL BE RE-ROUTED AS SHOWN ON SHEET 13-EP101.01.
- REMOVE (2) 3/4" [21] WITH FIRE ALARM WIRING TO INDICATED POINT. WIRES ORIGINATE AT FIRE ALARM PULL BOX SHOWN AT CATWALK LEVEL AND TERMINATE AT BUILDING 12 IT CLOSET VIA TUNNEL.

**GENERAL SHEET NOTES:**

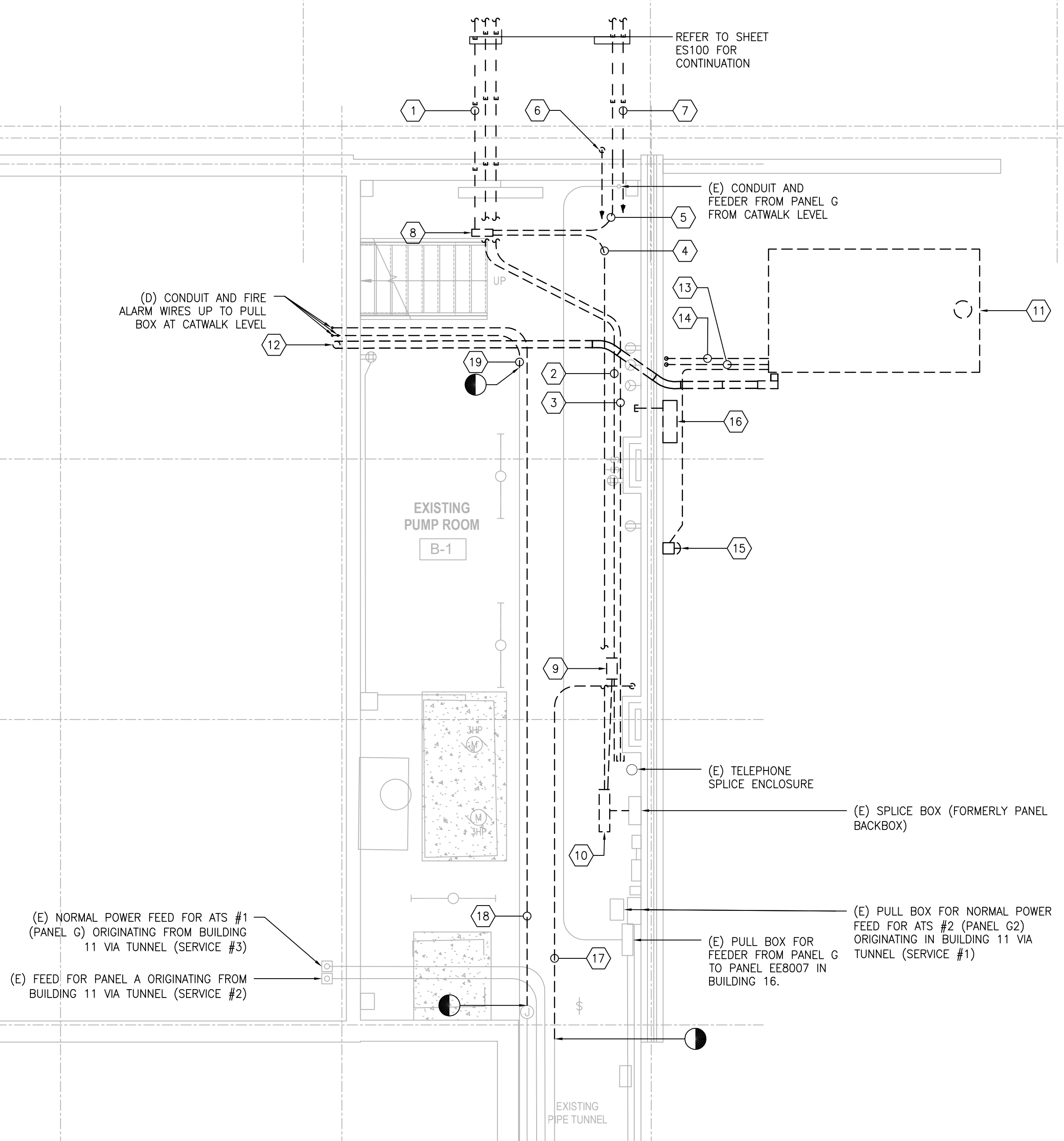
- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101.
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET ES100 FOR SITE PLAN SHOWING DEMOLISHED CONDUITS.
- REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM.
- THE CONTRACTOR SHALL COORDINATE ELECTRICAL DEMOLITION OF BUILDING ARCHITECTURAL, PIPING AND MECHANICAL EQUIPMENT AS PER EACH DISCIPLINE DEMOLITION DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- UNLESS NOTED OTHERWISE, ALL ITEMS SHOWN DASHED SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- CIRCUITS SHOWN AS DEMOLISHED SHALL INCLUDE THE REMOVAL OF ALL CONDUIT, WIRING AND CONNECTION TO EQUIPMENT, UNLESS NOTED OTHERWISE.
- REMOVE ALL EXPOSED ABANDONED AND EMPTY CONDUITS.
- EMBEDDED CONDUIT SHALL BE CUT TO 1" [27] BELOW TOP OF CONCRETE SURFACE. REMOVE ALL WIRING BACK TO SOURCE AND SEAL PENETRATIONS (WITH CONCRETE) AT BOTH ENDS.
- ALL WALL PENETRATIONS SHALL BE PATCHED UPON REMOVAL OF CONDUITS.
- THE CONTRACTOR SHALL NOTE THE PRESENCE OF ASBESTOS. REFER TO ACM DRAWINGS AND SPECIFICATIONS.
- NOT ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ARE SHOWN ON THE DEMOLITION PLANS. THE CONTRACTOR SHALL REMOVE ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ASSOCIATED WITH DEMOLISHED EQUIPMENT/DEVICES.



**KEYPLAN**



**1 DEMOLITION PLAN – TUNNEL & BSMT LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



FOUNDATION ADDITION OUTLINE OF

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<p><b>HAZARDOUS MATERIALS</b> MABBETT &amp; ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550</p>	<p><b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246</p>
<p><b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881</p>	<p><b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990</p>
<p><b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p><b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLSAIR BEACH, FL 33786 PHONE: (802)836-4232</p>

**ENGINEER OF RECORD**

<p><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)439-4000 FAX: (856)439-5002 MR PROJECT NO: 0499-0121</p>	<p>MILLER-REMICK LLC PROFESSIONAL ENGINEER ANTHONY D. PACIO LICENSED PROFESSIONAL ENGINEER KANSAS 26413 9.3.2021</p>
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<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title <b>ELECTRICAL DEMOLITION PLAN TUNNEL &amp; BSMT LEVELS, PHASE 1</b> Approved: Project Director</p>
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<p>Phase <b>100% BID SET</b></p>	<p>Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b></p>
<p><b>FULLY SPRINKLERED</b></p>	<p>Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</p>

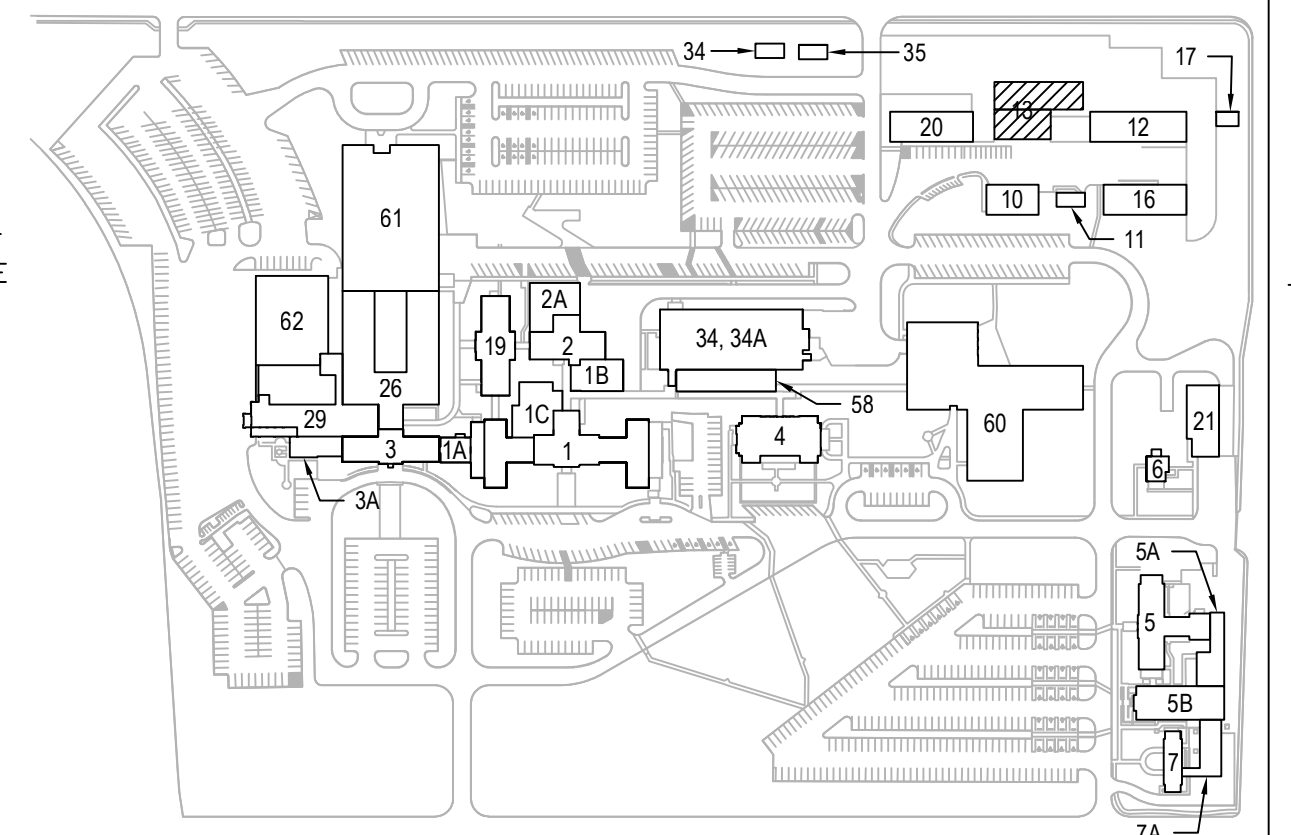
<p>Issue Date 2021-09-03</p>	<p>Checked ARH</p>	<p>Drawn ARH</p>	<p>Project Number 589A7-18-302</p>
<p>Building Number 13</p>	<p>Drawing Number 13-ED101.01</p>	<p> </p>	<p> </p>

**SHEET KEYNOTES:**

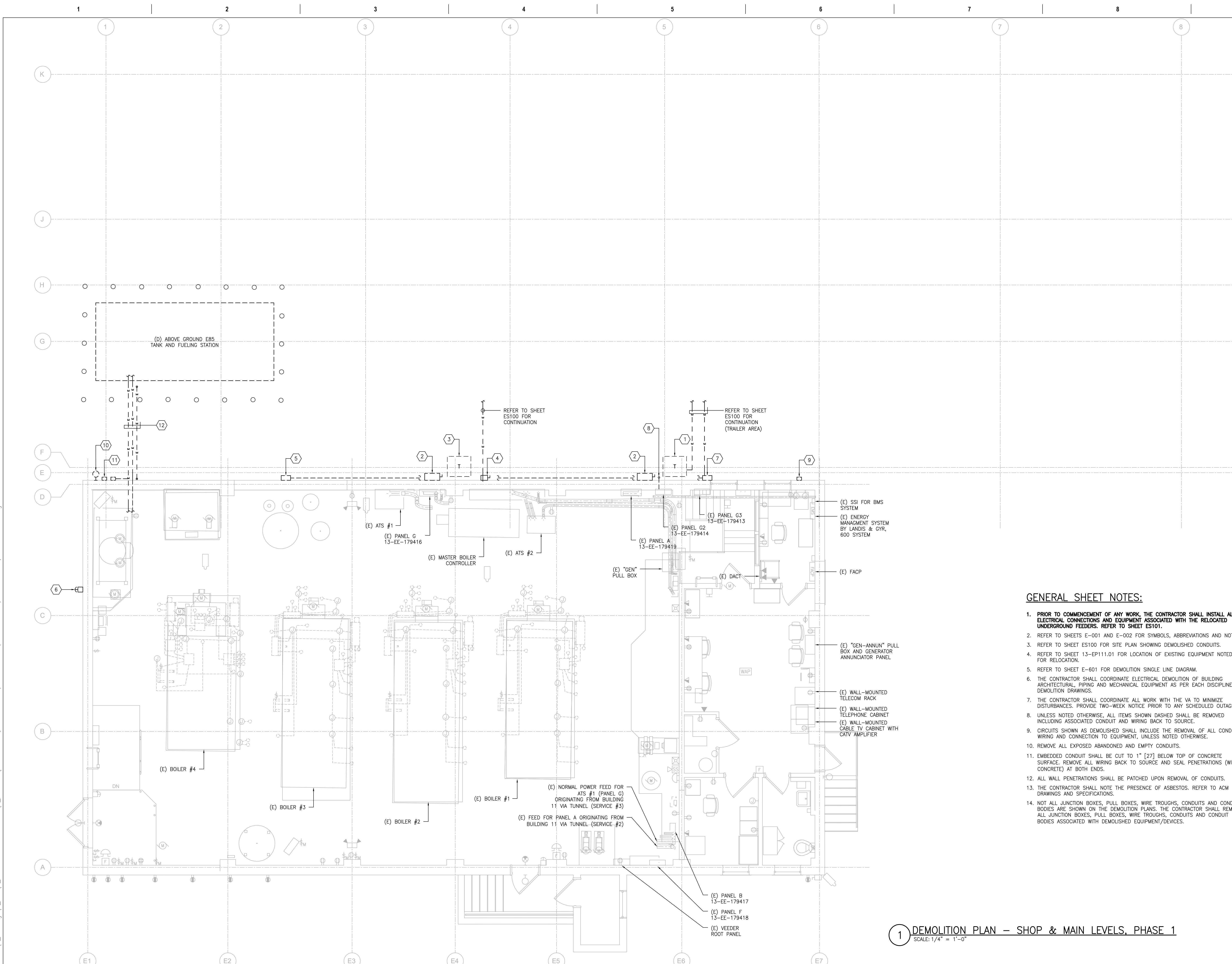
- 75KVA, 240-208/120V TRANSFORMER FED FROM PANEL A (13-EE-179419) VIA ADJACENT 200A DISCONNECT SWITCH. TRANSFORMER FEEDS PANEL 03-13-01-2 NEAR THE CONSTRUCTION TRAILERS. DISCONNECT AND REMOVE ALL ASSOCIATED CONDUITS AND FEEDERS. RELOCATE TRANSFORMER INTO BUILDING 13 FOR TEMPORARY USAGE.
- DISCONNECT AND REMOVE 200A DISCONNECT SWITCH AND ALL ASSOCIATED CONDUITS AND FEEDERS. RELOCATE INTO BUILDING 13 FOR TEMPORARY USAGE WITH ASSOCIATED TRANSFORMER.
- 75KVA, 208-480V TRANSFORMER FED FROM PANEL G (13-EE-179416) VIA ADJACENT 200A DISCONNECT SWITCH. TRANSFORMER FEEDS PANEL 03-35-01-2 (VIA ADJACENT 100A DISCONNECT SWITCH) LOCATED INSIDE BUILDING 35 (OLD SWITCHGEAR BUILDING). DISCONNECT AND REMOVE ASSOCIATED CONDUITS AND FEEDERS. REFER TO SHEET 13-EP111.01 FOR WORK TO BE PERFORMED PRIOR TO DEMOLITION. RELOCATE TRANSFORMER INTO BUILDING 13. TRANSFORMER WILL TEMPORARILY RE-FEED THE SAME LOAD VIA NEW DUCT BANK AND HANDHOLE.
- DISCONNECT AND REMOVE 100A DISCONNECT SWITCH. REMOVE PORTION OF OUTGOING CONDUIT AND FEEDER TO BE INTERCEPTED AS INDICATED ON SHEET ES100. REFER TO SHEET 13-EP111.01 FOR WORK TO BE PERFORMED PRIOR TO DEMOLITION. RELOCATE DISCONNECT SWITCH INTO BUILDING 13 FOR TEMPORARY USAGE WITH ASSOCIATED TRANSFORMER.
- DISCONNECT AND REMOVE 6"x6" [152X152] JUNCTION BOX AND ASSOCIATED CONDUITS AND CABLES. REFER TO SHEET ES101 AND 13-EP111.01 FOR WORK TO BE PERFORMED PRIOR TO DEMOLITION.
  - (1) UNDERGROUND 1" [27] WITH (1) CATSE CABLE AND (1) #12 FLPE CABLE TO PULL BOX AT EAST SIDE BUILDING 20 EXTERIOR.
  - (1) 1/2" [13] WITH (1) CATSE CABLE TO PULL BOX NEAR COLUMN 5E. CONDUIT IS ROUTED ALONG EXTERIOR WALL.
  - (1) 1" [27] WITH (1) #12 FLPE CABLE TO THE FACP VIA PULL BOX ABOVE GENERATOR BOOST TRANSFORMERS. CONDUIT PENETRATES EXTERIOR WALL AND IS ROUTED WITHIN THE BOILER PLANT.
- DISCONNECT AND REMOVE EMERGENCY STOP PUSHBUTTON AND ASSOCIATED CONDUIT AND WIRING. PUSHBUTTON IS FOR SHUTDOWN OF E85 TANK PUMP AT ABOVE GROUND E85 TANK.
- DISCONNECT AND REMOVE 12"x12" [305X305] PULL BOX AND ASSOCIATED CONDUITS AND CABLES.
  - (1) UNDERGROUND 2" [53] WITH (6) CATSE CABLES TO PULL BOX NEAR PANEL 03-13-01-2 NEAR THE CONSTRUCTION TRAILERS.
  - (1) 1/2" [13] WITH (1) CATSE CABLE TO 6"x6" [152X152] JUNCTION BOX.
  - (1) 1-1/4" [35] SLEEVE INTO BOILER PLANT WITH (7) CATSE CABLES BACK TO IT RACK IN EXISTING CONTROL ROOM.
- DISCONNECT AND REMOVE ABANDONED 3/4" [21] WITH (3) #6 ORIGINATING FROM PANEL G2 (13-EE-179414) CIRCUITS 1,3,5, 50A/3P BREAKER. CONDUIT AND FEEDER TERMINATE INTO A PVC JUNCTION BOX LOCATED NEAR THE ENTRANCE INSIDE OF BUILDING 35.
- DISCONNECT AND REMOVE 6"x6" [152X152] JUNCTION BOX AND ASSOCIATED CONDUITS AND CABLES. REFER TO SHEET ES101 AND 13-EP111.01 FOR WORK TO BE PERFORMED PRIOR TO DEMOLITION.
  - (1) EMPTY UNDERGROUND 3/4" [21]. REFER TO SHEET 13-ED101.01 FOR CONDUIT NEAR COLUMN D-E7.
  - (1) 3/4" [21] WITH (1) CATSE UP TO SENSOR ON BUILDING EXTERIOR. CONDUIT IS ROUTED VERTICALLY ALONG BUILDING EXTERIOR. RETAIN SENSOR FOR RELOCATION.
  - (1) 1" [27] SLEEVE WITH CABLE (2AWG BC SHELDED, BELDEN 9538 OR EQUAL) INTO JUNCTION BOX IN OFFICE NE CORNER. CABLE IS THEN CONNECTED TO SSI ANALYZER. REMOVE CABLE AND PROVIDE NEW TO MATCH EXISTING.
- REMOVE WARNING LIGHT ASSOCIATED WITH E85 TANK AND FUELING STATION.
- REMOVE ALARM STATION ASSOCIATED WITH VEEDER ROOT PANEL. REMOVE ALL ASSOCIATED WIRING AND CONDUIT FROM E85 TANK AND VEEDER ROOT PANEL LOCATED IN THE BOILER PLANT.
- REMOVE U/G CONDUITS AND WIRING BETWEEN E85 TANK AND ASSOCIATED DEVICES AND PANELS.
  - (1) 3/4" [21] SPARE CONDUIT
  - (1) 3/4" [21] WITH WIRING TO EXISTING PANEL F
  - (1) 3/4" [21] WITH WIRING TO VEEDER ROOT PANEL

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- REFER TO SHEET ES100 FOR SITE PLAN SHOWING DEMOLISHED CONDUITS.
- REFER TO SHEET 13-EP111.01 FOR LOCATION OF EXISTING EQUIPMENT NOTED FOR RELOCATION.
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**1 DEMOLITION PLAN - SHOP & MAIN LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

CONSULTANTS	
<b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6590	<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246
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**ENGINEER OF RECORD**

**Miller-Remick LLC**  
M.E.P. & Structural Engineering  
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1010 KINGS HIGHWAY SOUTH  
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MR PROJECT NO: 0499-0121

MILLER-REMICK LLC  
PROFESSIONAL ENGINEER

ANTHONY D. PAKIRO  
LICENSED PROFESSIONAL ENGINEER  
KANSAS  
26413  
9.3.2021

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title	<b>ELECTRICAL DEMOLITION PLAN SHOP &amp; MAIN LEVELS, PHASE 1</b>
Approved: Project Director	

Phase	<b>100% BID SET</b>
	<b>FULLY SPRINKLERED</b>

Project Title	<b>INSTALL NEW BOILERS IN BUILDING 13</b>
Location	<b>ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</b>
Issue Date	<b>2021-09-03</b>
Checked	<b>ARH</b>
Drawn	<b>ARH</b>

Project Number	<b>589A7-18-302</b>
Building Number	<b>13</b>
Drawing Number	<b>13-ED111.01</b>