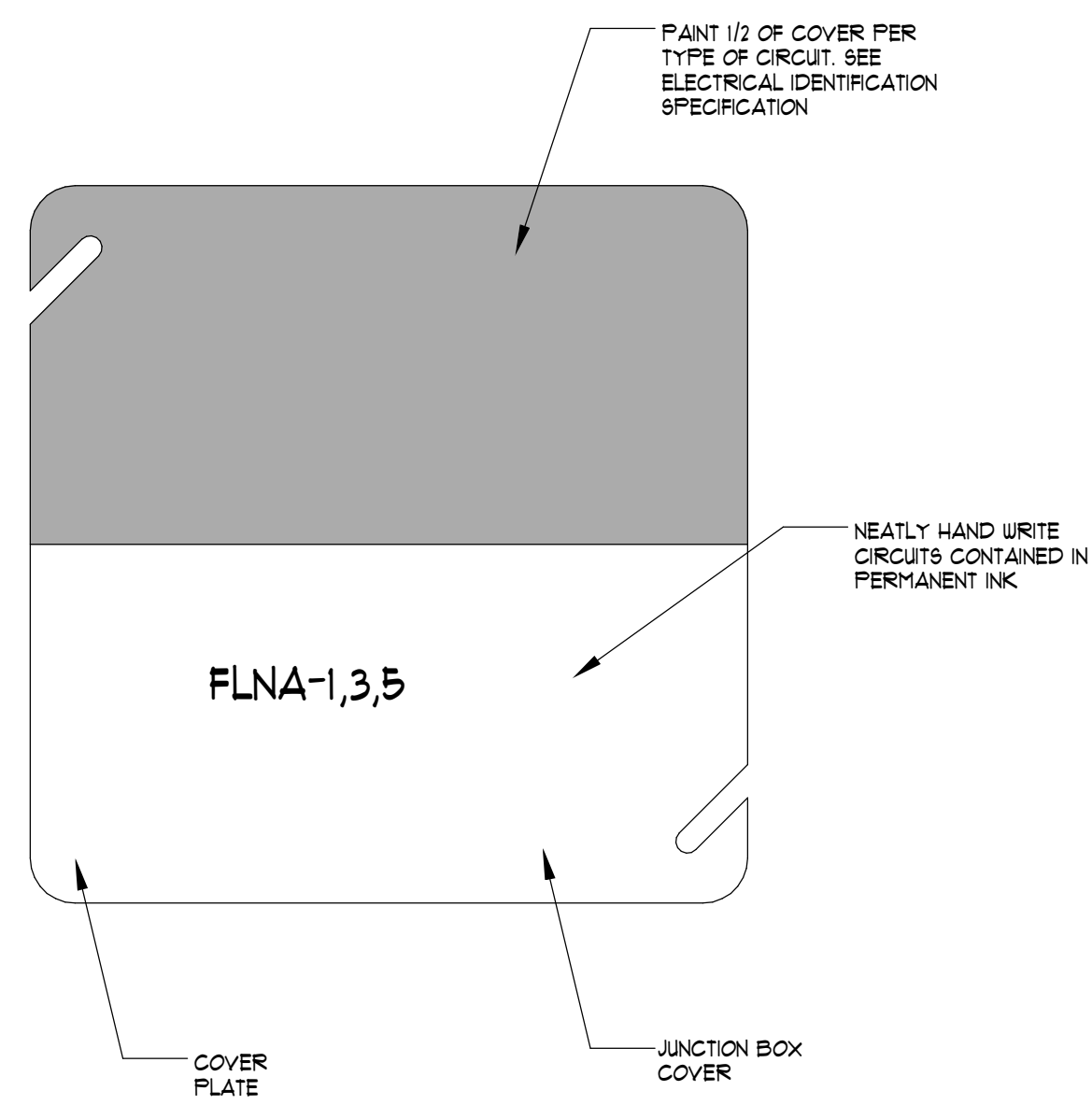
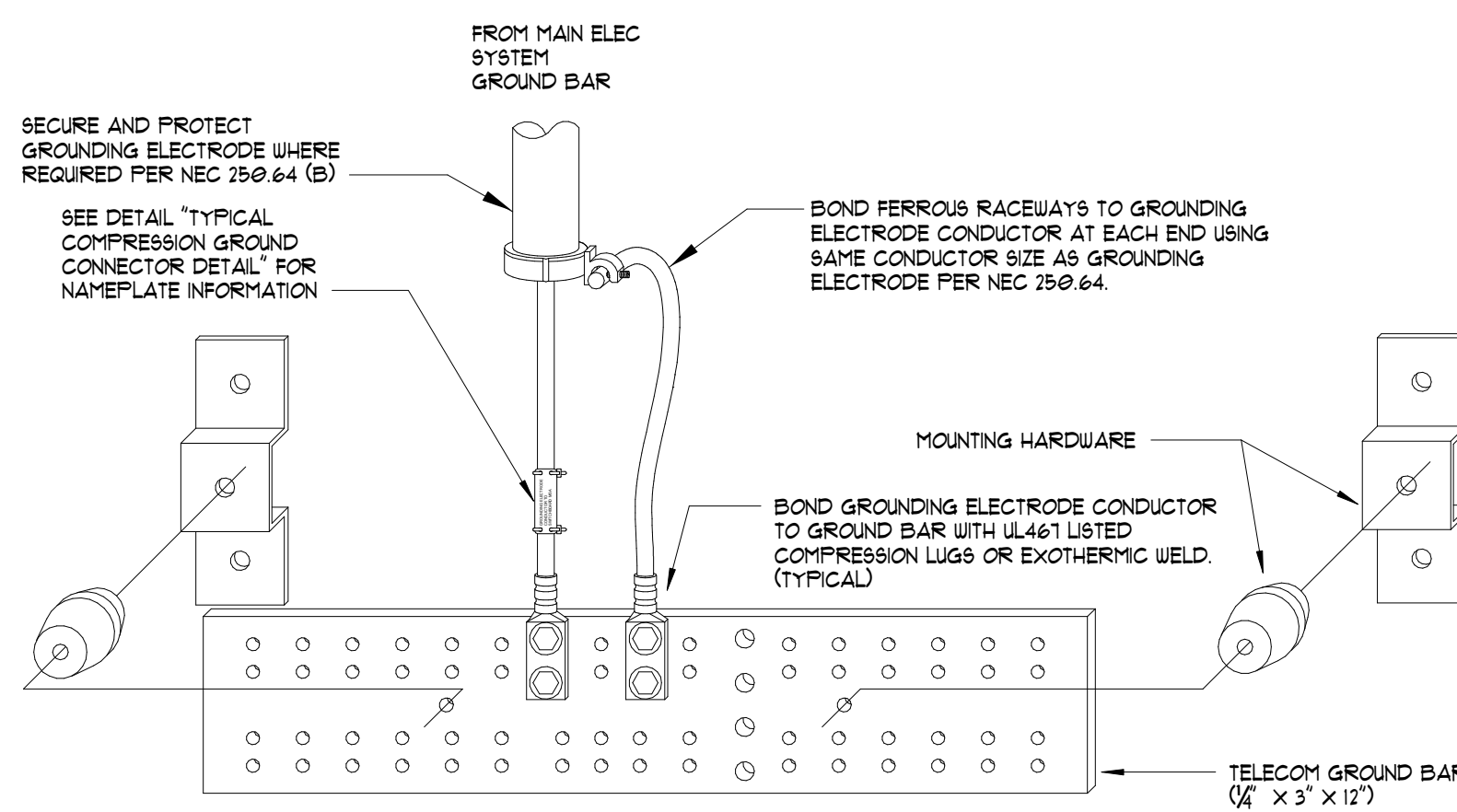


- NOTE
1. PROVIDE LABELS FOR ALL DEVICES INDICATING BRANCH CIRCUIT NUMBER USING PANDUIT ADHESIVE LABELS WITH 1/8" HIGH LETTERS.
 2. LABELS SHALL BE CLEAR IN COLOR WITH BLACK LETTERING.

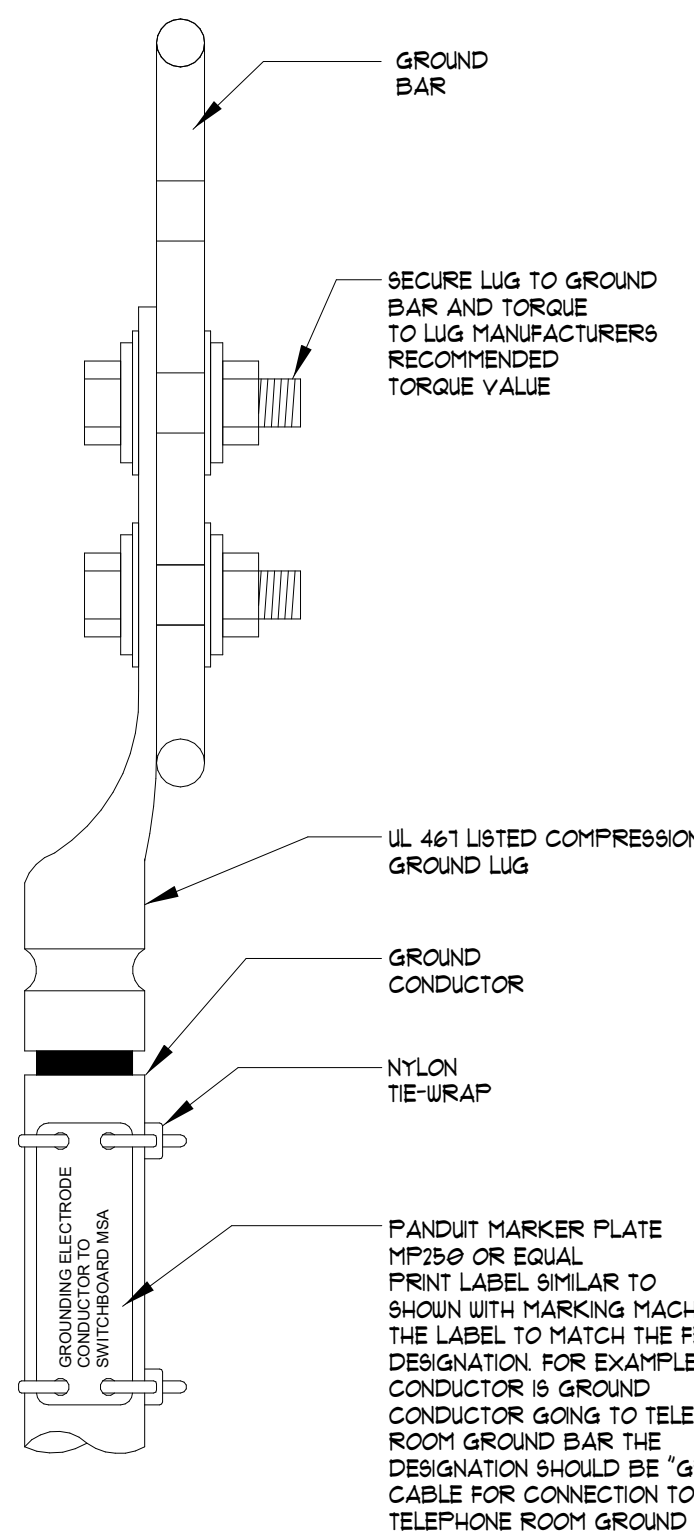
4 RECEPTACLE IDENTIFICATION DETAIL
NOT TO SCALE



1 JUNCTION BOX IDENTIFICATION DETAIL
NOT TO SCALE



2 GROUND BAR - MAIN TELEPHONE ROOM - NO RISER
NOT TO SCALE



3 TYPICAL COMPRESSION GROUND CONNECTOR DETAIL
NOT TO SCALE

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND 2019 NATIONAL ELECTRICAL CODE.
2. THE ELECTRICAL WORK SHALL CONSIST OF ALL LABOR AND MATERIAL TO COMPLETELY INSTALL ALL ELECTRICAL WORKS AS SHOWN ON THESE DRAWINGS.
3. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING AND CONDUIT IF NECESSARY AS DIRECTED BY THE ARCHITECT/ENGINEER.
4. ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, OR WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.
5. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
6. THE DRAWINGS ARE DIAGNOSTIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL JUNCTION BOXES AND COMPONENTS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.
7. REFER TO THE ENTIRE CONTRACTED DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINES WORK.
8. ALL CONDUIT MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.
9. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH ALL EQUIPMENT.
10. THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS WORKMANSHIP.
11. PROVIDE A NEW DIRECTORY FOR ALL PANELS. CORRECTLY LABEL ALL CIRCUITS, SPACES AND SPARES PER NEC 408.4.
12. ALL RECESSED LIGHTING FIXTURES SHALL BE FASTENED TO STRUCTURE OR GRID PER N.E.C. 410.
13. ANY CONDUIT, BUSWAY, CABLE TRAY, SLEEVES, ETC. THAT PENETRATE RATED WALLS, CEILINGS AND FLOORS SHALL BE FIRE STOPPED PER CODE.
14. MOUNTING HEIGHTS FOR DEVICES ARE TO BE MEASURED TO THE DEVICE CENTERLINE.
15. ALL BRANCH CIRCUITS SHALL BE WIRED 1/2" C, 2" R2, 1" HIGH MINIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. ALL HOMERUNS SHALL BE A MINIMUM 1/2" CONDUIT.
16. PROVIDE A SEPARATE GREEN, INSULATED #12AUG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS. PROVIDE GROUND THROUGH ENTIRE CONDUIT RUN TO THE LAST DEVICE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT. PROVIDE GROUNDING PER NEC 250.
17. ALL SWITCHES FOR LIGHTS, FANS, ETC. WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA, SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
18. ARMORED CABLE MAY BE USED IN WALLS AND MILLWORK ONLY AND MUST BE MC TYPE (WITH GROUND). ALL CONDUIT TO AND ABOVE THE PLUMB SHALL BE EMT. ALL HOMERUNS SHALL BE IN CONDUIT RAN FROM THE FIRST DEVICE OR LIGHT FIXTURE TO THE PANEL.
19. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF OUTLETS, LIGHT FIXTURES, AND PARTITIONS. FINISHES FOR DEVICES AND COVERPLATES SHALL BE AS SELECTED BY ARCHITECT.
20. PROVIDE A 2-GANG OUTLET BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ALL NEW DATA, TELEPHONE AND CABLE OUTLETS. COORDINATE PLASTER RING SIZE WITH TENANT AND CABLE VENDOR.
21. LIGHT FIXTURES SHALL BE AS SCHEDULED, WITH ONLY PRE-APPROVED EQUAL FIXTURES ACCEPTABLE.
22. ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS FOR SIZES NO. 10 AND SMALLER SHALL BE TYPE "THIN" OR "THINNING". CONDUCTORS FOR SIZES NO. 8 AND LARGER SHALL BE TYPE "XHHU" SOLID CONDUCTORS TERMINATING IN A BREAKER OR DEVICE SHALL BE UTILIZED FOR WIRE SIZE NO. 12. MINIMUM WIRE SIZE SHALL BE NO. 12.
23. ALL BOXES SHALL BE PRESSED STEEL, SINGLE PIECE NON-GANGABLE TYPE.
24. ALL COVER PLATES SHALL BE STAINLESS STEEL.
25. ALL COVER PLATES FOR DEVICES AND JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS LABELED WITH INDELEBLE INK MARKER. DEVICE COVERS SHALL BE LABELED ON THE BACK, JUNCTION BOX COVERS SHALL BE LABELED ON THE FRONT.
26. RECEPTACLES SHALL BE 120 VOLT, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P#6, OR LEVITON. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

- SINGLE RECEPTACLE #HBL361X
DUPLEX RECEPTACLE #HBL352X
GFCI RECEPTACLE #RPS30X
27. SWITCHES SHALL BE 120/177V, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P#6, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.
 28. SINGLE POLE #HBL222X
THREE WAY #HBL223X
FOUR WAY #HBL224X
(ADD "L" SUFFIX FOR KEYED LOCKING TYPE)
 29. PANELBOARDS, MOTOR STARTERS, SAFETY SWITCHES (HEAVY DUTY), ETC. SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, SIEMENS, OR CUTLER HAMMER. ALL BREAKERS SHALL BE "BOLT-ON" TYPE.
 30. PROVIDE EQUIPMENT THAT IS TO BE WIRED BY ELECTRICAL CONTRACTOR AND FURNISHED BY OTHERS. ELECTRICAL CONTRACTOR SHALL REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DETAILS THROUGHOUT DOCUMENTS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING AND DEVICES REFERENCED IN THEIR BIDS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH RESPECTIVE CONTRACTOR PRIOR TO ROUGH-IN.
 31. ALL ABANDONED WIRE SHALL BE REMOVED.
 32. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVE, NEW OR RELATED WALL OPENING, ETC) RESULTS IN THE REMOVALS, REFEEDING, OR RELOCATION OF LIGHTING FIXTURES OR ELECTRICAL DEVICES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
 33. RING OUT ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE, OR PROVIDE NEW BREAKERS. TAG ALL UNUSED CIRCUITS AS SPARE, REPLACE ALL INOPERATIVE OR DEFECTIVE CIRCUIT BREAKERS, AND TIGHTEN ALL CONNECTIONS.
 34. WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS, AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.
 35. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CORRELATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 36. PROVIDE 120 VOLT FOUER FOR ALL SMOKE/FIRE DAMPERS AND THE DAMPERS BACK TO THE BUILDING FIRE ALARM SYSTEM SO THAT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR OR INDIVIDUAL SENSORS ASSOCIATED WITH DAMPER A SIGNAL WILL BE SENT BACK TO THE BUILDING FIRE ALARM SYSTEM INDICATING ALARM AND STATUS OF DAMPER (OPEN/CLOSED). CONTRACTOR SHALL PROVIDE ALL WIRING, DUCT MOUNTED SMOKE DETECTORS, MODULES, RELAY AND ASSOCIATED EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT CONNECTION REQUIREMENTS BETWEEN ALL TRADES (ELECTRICAL, MECHANICAL, FIRE PROTECTION). CONTRACTOR SHALL COORDINATE QUANTITY OF DUCT MOUNTED SMOKE DETECTORS.
 37. CONDUCTORS SHALL HAVE COLOR CODED JACKETS THE ENTIRE LENGTH FOR SIZES NO. 6 AND SMALLER. THE CONDUCTORS FOR SIZES NO. 4 AND LARGER SHALL HAVE COLOR CODED MARKING TAPE OR COLOR CODED JACKETS THE ENTIRE LENGTH. COLORS SHALL BE AS FOLLOWS:
120/208 VOLT SYSTEM 277/480 VOLT SYSTEM
PHASE "A" - BLACK PHASE "A" - BROWN
PHASE "B" - RED PHASE "B" - ORANGE
PHASE "C" - BLUE PHASE "C" - YELLOW
NEUTRAL - WHITE NEUTRAL - GRAY
GROUND - GREEN GROUND - GREEN
 38. WHERE PHASE MARKING TAPE IS USED IT SHALL BE WRAPPED 2" WIDE AND LOCATED AT TWO (2) LOCATIONS 6" AND 18" FROM THE TERMINATION. PHASE MARKING TAPE FOR THE NEUTRAL AND GROUNDING CONDUCTORS SHALL BE PROVIDED WHERE VISIBLE AT ANY POINT WHERE THE CONDUCTOR IS ACCESSIBLE.
 39. ALL 120 VOLT BRANCH CIRCUIT CONDUCTORS EXCEEDING 100' IN LENGTH SHALL BE INCREASED TO THE NEXT WIRE SIZE TO ACCOMMODATE FOR VOLTAGE DROP.
 40. PROVIDE ARC-FLASH WARNING LABELS ON ELECTRICAL EQUIPMENT THAT COMPLIES WITH NEC 110.16.
 41. PROVIDE CONSPICUOUS AND PERMANENT LABEL ON NEW PANEL BOARDS INDICATING AVAILABLE FAULT CURRENT PER NEC 110.24.

- FIRE ALARM NOTES:**
1. ALL NEW FIRE ALARM DEVICES SHALL BE ADA APPROVED.
 2. ALL AUDIOVISUAL DEVICES SHALL MATCH EXISTING FACILITY STANDARDS IN ALL ASPECTS.
 3. ALL FIRE ALARM DEVICES ARE TO BE CONNECTED TO THE BASE BUILDING FIRE ALARM SYSTEM BY A NICET LEVEL 3 LICENSED INSTALLER AND SHALL BE APPROVED BY THE LANDLORD.
 4. CONFIRM EXISTING A/V LOADS PRIOR TO BEGINNING CONSTRUCTION AND PROVIDE NEW FIRE ALARM POWER SUPPLIES WITHIN THE TENANT SPACE AS REQUIRED.
 5. ALL WORK ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE BUILDINGS CHIEF ENGINEER.
 6. CONTRACTOR SHALL RE-TEST FIRE ALARM SYSTEM PRIOR TO TURNING OVER SPACE TO TENANT TO VERIFY ALL DEVICES ARE WORKING PROPERLY AND SYNCRD PER CODE. CONTRACTOR SHALL PROVIDE REPORT TO LANDLORD, TENANT AND FIRE MARSHALL CONFIRMING BUILDING FIRE ALARM SYSTEM IS IN PROPER WORKING CONDITION.
 7. CONTRACTOR SHALL PROVIDE (1) 1/2" C WITH PULL STRING ROUTED FROM THE FIRE ALARM CONTROL PANEL TO NEW "FIV" WHEN INSTALLED FOR FIRE ALARM SIGNAL WIRING. COORDINATE LOCATION OF FIV WITH CIVIL ENGINEER.

- VOICE/DATA AND SECURITY NOTES:**
1. PROVIDE OUTLET BOX WITH 1" CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) TO 6" ABOVE ACCESSIBLE CEILING FOR ALL WALL MOUNTED VOICE/DATA AND SECURITY DEVICES.
 2. PROVIDE POWER FOR SECURITY DEVICES AS REQUIRED.
- SHOP DRAWING AND PRODUCT DATA SUBMITTALS:**
- A. SHOP DRAWINGS AND/OR PRODUCT DATA SHALL BE SUBMITTED FOR THE FOLLOWING FOR REVIEW:
1. SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, BUSWAY, MOTOR CONTROL CENTERS, GROUND FAULT SYSTEM AND OTHER EQUIPMENT ASSOCIATED WITH THE MAIN DISTRIBUTION.
2. DISCONNECT SWITCHES, FUSES, MOTOR STARTERS.
3. LIFE SAFETY SYSTEM.
4. LIGHTING FIXTURES, LIGHTING CONTROL SYSTEM, DIMMING SYSTEM, EMERGENCY BATTERIES AND OTHER EQUIPMENT ASSOCIATED WITH LIGHTING.
5. TRANSIENT VOLTAGE SURGE PROTECTION.
6. GENERATOR, UPS, TRANSFER SWITCHES, BATTERIES, STATIC SWITCHES, TRANSITION SWITCHES, SWITCHGEAR AND OTHER EQUIPMENT ASSOCIATED WITH EMERGENCY AND/OR STANDBY BACK-UP POWER SYSTEMS.
7. DEVICES, RECEPTACLES, SWITCHES, COVERPLATES, MOTOR SENSORS. THE PRODUCT DATA SHALL INCLUDE THE MANUFACTURERS NAME, MODEL NUMBER, SIZE AND COLOR.
8. CONDUIT, WIRE, BOXES, FITTINGS.
 - B. ALL SHOP DRAWINGS AND SUBMITTALS SHALL INCLUDE A STAMPED INDICATION SIGNIFYING THAT THE SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS BY THE CONTRACTOR. THIS STAMPED INDICATION ALSO REPRESENTS THE FACT THAT THE CONTRACTOR HAS CHECKED THIS SUBMITTAL FOR ITS INTERACTION WITH ALL OTHER DIVISIONS AND CERTIFIES BY HIS SIGNATURE OR INITIALS THAT ALL COORDINATION HAS TAKEN PLACE. THE STAMP SHALL INCLUDE THE DATE, NAME OF THE CONTRACTING FIRM, THE SIGNATURE OF THE CONTRACTOR, CERTIFICATION OF COMPLIANCE AND APPROVAL. THIS STAMP SHALL BE ON THE SUBMITTAL BEFORE THE ENGINEER WILL REVIEW IT.

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SEAL

REGISTERED PROFESSIONAL ENGINEER
WILLIAM W. WELLS
03/23/2026

IF SEALED, DO NOT COPY

PROJECT

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THESE PLANS ARE COMPLEMENTARY. THEREFORE THE CONTRACTOR SHALL SEE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS AND SPECIFICATIONS. WHEN ENGINEERED BY ANY ONE SHALL BE BINDING AS REQUIRED BY ALL THE INTENTION OF THE DOCUMENTS. THESE PLANS AND SPECIFICATIONS, MATERIALS, EQUIPMENT AND OTHER DATA NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE WORK OF ALL TRADES.

NO.	DATE	ISSUANCE / REVISIONS
REVISIONS REQUIRED FOR PERMIT AND BID		