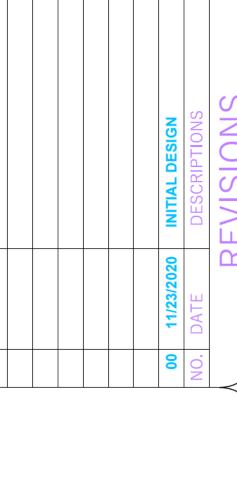
CONTRACTORS JOB RESPONSIBILITY:

- 1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF THE LOCAL CODE ENFORCING AUTHORITIES.
- 2. PROVIDE A COMPLETE OPERABLE SYSTEM IN A WORKMANLIKE MANNER, OUTLINE DESCRIPTION AND EQUIPMENT. DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE
- 3. ALL ELECTRICAL EQUIPMENT SHALL BE THE LATEST OF THE CURRENT YEAR IN DESIGN, MATERIAL AND
- WORKMANSHIP, AND SHALL BE THE TYPE OR MODEL CALLED FOR IN THESE DRAWINGS AND SPECIFICATIONS 4. CONTRACTOR TO BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID ALL WORK SHOWN ON THE DRAWINGS NOT SPECIFICALLY CALLED OUT AS EXISTING SHALL BE CONSIDERED WORK TO BE PERFORMED UNDER THIS CONTRACT
- BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK.SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED NO ALLOWANCE WILL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF ANY ERROR DUE TO THE CONTRACTOR'S NEGLECT TO COMPLY WITH THIS REQUIREMENT REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT, FIRE DEPARTMENT AND ALL OTHER GOVERNMENTAL AGENCIES OBTAIN ALL REQUIRED PERMITS, TEST REPORTS, CERTIFICATIONS FOR T.C.O. AND C.O. AND PAY ALL FEES REQUIRED.
- 7. ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE EXACT DIMENSIONS IN FIELD.
- 8. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL TAKE DELIVERY AND RESPONSIBILITY FOR ALL EQUIPMENT PRE-PURCHASED BY THE OWNER FOR THIS PROJECT. WORK SHALL INCLUDE RECEIVING EQUIPMENT AT STREET—SIDE. MOVING IT TO INTERIM ONSITE, SECURE STORAGE LOCATION, PROTECTING EQUIPMENT FROM DAMAGE, MOVING THE EQUIPMENT FROM STORAGE TO ITS FINAL POSITION, SETTING IN PLACE, AND COMPLETION OF ALL INSTALLATION, TESTING AND COMMISSIONING PROCEDURES REQUIRED FOR APPLICABLE EQUIPMENT.
- 10. UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, WIRING DEVICES, LIGHTING FIXTURES, MOTORS, EV AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT OR MATERIALS AND THAT PORTION OF THE SYSTEM SHALL BE RE-TESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 11. UPON COMPLETION OF WORK, ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANEL BOARDS AFFECTED TO
- WITHIN 10% DEVIATION BETWEEN PHASES. 12. REMOVE ALL DEBRIS RESULTING FROM REMOVAL AND/OR INSTALLATION OF ELECTRICAL WORK FROM THE PREMISES REMOVAL OF DEBRIS SHALL BE COORDINATED WITH BUILDING MANAGEMENT. DISPOSAL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH ALL STATE AND FEDERAL REGULATIONS.
- 13. UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PULL BOXES, JUNCTION BOXES, WIRING DEVICES, PANEL BOARDS, LOW VOLTAGE SYSTEMS DEVICES ETC., WHERE INDICATED ON DRAWINGS, SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE THESE ITEMS AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ARCHITECT AND/OR ENGINEER.
- 14. ALL CONDUIT RUNS, WHEN SHOWN ON THE DRAWINGS, ARE SHOWN DIAGRAMMATICALLY TO OUTLINE THE GENERAL ROUTING OF MAJOR FEEDERS AND BRANCH WIRING.IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES, JUNCTION BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THIS WORK TO CONFORM TO THE REQUIREMENTS OF THE ELECTRICAL CODE AND TO PRESERVE HEADROOM.
- 15. ADDITIONAL PULL BOXES, JUNCTION BOXES AND WIRE TROUGHS NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE REQUIREMENTS OR WHERE CALLED FOR BY FIELD CONDITIONS.PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN UNFINISHED SPACES AND FLUSH TYPE IN FINISHED SPACES. PROVIDE COVERS FOR ALL JUNCTION BOXES, PULL BOXES AND WIRE TROUGHS. COVERS SHALL BE ACCESSIBLE.
- 16. CONDUIT RUNS SHALL CLEAR ALL ARCHITECTURAL FEATURES (DOORS, WINDOWS, ETC) AND STRUCTURAL MEMBERS. CONDUIT INSTALLATION SHALL ALSO BE MADE TO AVOID INTERFERENCE WITH PIPES, DUCTS OR OTHER EQUIPMENT CORRESPONDING TO OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING AND FIRE PROTECTION. ANY OF THIS ELEMENTS PREVENT THE INSTALLATION OF RACEWAY AS DELINEATED ON THE CONTRACT DOCUMENTS, DEVIATION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION ANY VARIATION DUE TO FIELD CONDITIONS SHALL NOT REPRESENT AN ADDITIONAL COST TO
- 17. ALL CONDUIT RUNS SHALL BE CONCEALED WITHIN WALLS OR CEILING EXPOSED CONDUITS AND BOXES, WHEN REQUIRED, SHALL BE PAINTED PAINTING SHALL CONSIST OF A PRIME COAT AND A FINISHED COAT COLOR AS SELECTED BY ARCHITECT OR TO MATCH SURROUNDING SURFACES. FACTORY PAINTING WILL BE ACCEPTED AS A PRIME COAT.
- 18. MINIMUM SIZE OF CONDUITS SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- 19. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES (300 MM) OF SLACK AT EACH END OF PULL WIRE.
- 20. PROVIDE PIPE SLEEVES WHERE CONDUITS ARE ROUTE THROUGH FOUNDATION WALLS, SLABS AND FIRE RATED PARTITIONS. PIPE SLEEVES SHALL BE GROUTED. SEALANT SHALL BE APPLIED AROUND THE CONDUIT IN THE SLEEVE IN ORDER TO PREVENT INGRESS OF MOISTURE. WALL AND SLAB PENETRATIONS SHALL BE COMPLETELY WATERPROOF AND/OR FIRE PROOFED.
- 21. ALL OPENINGS BETWEEN FLOORS, THROUGH RATED FIRE AND SMOKE WALLS, CREATED BY THE CONTRACTOR FOR CABLE OR CONDUIT PASS THROUGH SHALL BE SEALED WITH A FIRE STOPPING MATERIAL. FIRE STOPPING MATERIAL AND ITS APPLICATION SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING OF WALLS AND SLABS.
- 22. IN UNFINISHED SPACES OF THE BUILDING SUCH AS FAN ROOMS, PIPE SPACES, ETC., LOCATIONS OF CONDUIT AND OUTLETS ARE APPROXIMATE AND SHALL CLEAR PIPING AND ALL OTHER CONSTRUCTION. ALL THE OUTLETS MUST BE UNOBSTRUCTED AND EXTENDED AS DIRECTED TO CLEAR ANY INTERFERENCE WITH FIXTURES, PIPING EQUIPMENT ETC.
- 23. SUPPORT ALL THE ELECTRICAL EQUIPMENT AND CONDUIT FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. ALL ELECTRICAL EQUIPMENT AND RACEWAY SHALL BE SUSPENDED FROM SUPPLEMENTAL SLOTTED CHANNEL FRAME. ALL SUCH MOUNTS, DEVICES, FASTENERS SHALL BE OF SUFFICIENT THICKNESS TO CARRY THE LOAD SUSPENDED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL SUPPLEMENTAL STEEL REQUIRED TO SUPPORT THE EQUIPMENT OR DEVICES.
- 24. PROVIDE OUTLET BOXES AND ENCLOSURES APPROPRIATE FOR THE PURPOSE AT ALL LOCATIONS WHERE THE DRAWINGS REQUIRE THE INSTALLATION OF ELECTRICAL DEVICES OR ELECTRICAL EQUIPMENT.
- 25. ALL EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE GROUNDED FOR FEEDERS AND/OR BRANCH CIRCUITS WHERE GROUNDING CONDUCTOR IS NOT PROVIDED. METAL RACEWAYS AND METAL ENCLOSURES FOR CONDUCTORS SHALL BE TIGHTLY JOINED TO CREATE A CONTINUOUS ELECTRIC CIRCUIT AND SO, ASSURE A PROPERLY GROUNDED SYSTEM FITTINGS FOR JOINTS AND TERMINATIONS SHALL BE LISTED FOR GROUNDING INSTALLATION. PROVIDE BONDING JUMPERS WITH APPROVED FITTINGS OF SIZE REQUIRED FOR EQUIPMENT GROUNDING. THE CONTRACTOR SHALL ENSURE CONTINUITY OF THE GROUNDING CIRCUIT FROM THE SUPPLYING PANEL BOARD GROUNDING BUS TO THE LOAD GROUND TERMINAL.
- 26. UNLESS OTHERWISE NOTED, CONDUCTORS FOR POWER AND LIGHTING CIRCUITS SHALL BE OF TYPE THHN/THWN AND MINIMUM SIZE SHALL BE #12 AWG. CONDUCTORS #10 AWG AND SMALLER SHALL BE COPPER, SOLID OR STRANDED; #8 AWG AND LARGER SHALL BE COPPER, STRANDED TYPE.
- 27. ALL CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS. IF CONTRACTOR ELECTS TO SHARE NEUTRALS, IT IS HIS RESPONSIBILITY TO PROVIDE A MEANS TO DISCONNECT ALL CIRCUITS SIMULTANEOUSLY. FOR EXISTING PANEL BOARDS THE CONTRACTOR SHALL UPGRADE, PROVIDE NEUTRAL BAR TERMINATION EXTENSION KITS OR REPLACE NEUTRAL TERMINATION BARS AS REQUIRED FOR THE DEDICATED NEUTRALS.
- 28. LOW VOLTAGE WIRING SHALL NOT BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
- 29. ALL GROUND WIRES SHALL BE INSTALLED IN CONDUIT.
- 30. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WIRING DEVICES SUCH AS RECEPTACLES, LIGHTING SWITCHES, DIMMERS, DATA/TELEPHONE OUTLETS, ETC.

- 31. ELECTRICAL DRAWING INDICATE CIRCUIT NUMBERS (#) FOR RECEPTACLES, LIGHTING FIXTURES AND OTHER EQUIPMENT FEEDS. UNLESS OTHERWISE NOTED 3/4" CONDUIT TO 15A OR 20A CIRCUIT BREAKERS IN PROVIDE 2#12, 1#12G IN PANELS INDICATED. CIRCUIT NUMBERS (#) NOTED ON PLANS ARE INTENDED AS A GUIDE. FINAL NUMBERING SYSTEM TO BE NOTED ON AS-BUILD DRAWINGS AND ON TYPED PANEL BOARD
- 32. FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON ARCHITECTURAL, HVAC, PLUMBING AND/OR ELECTRICAL DRAWINGS. COORDINATE WITH OTHER TRADES FOR DETAILS OF INSTALLATION AND WIRING REQUIREMENTS. THE TERM "WIRING" AS USED HEREIN SHALL INCLUDE FURNISHING AND INSTALLING CONDUIT, WIRES, JUNCTION/OUTLET BOXES, DISCONNECTS, OVER CURRENT PROTECTION DEVICES AND FINAL CONNECTIONS. COORDINATE FINAL CONDUCTOR SIZES, QUANTITIES, VOLTAGE REQUIREMENTS, AND OVER CURRENT DEVICE AND OUTLET RATINGS WITH ACTUAL EQUIPMENT TO BE FURNISHED TO THE SITE PRIOR TO FINALIZING WIRING INSTALLATION. MINOR ADJUSTMENTS TO WIRING REQUIREMENTS NECESSARY TO ACCOMMODATE ACTUAL FURNISHED EQUIPMENT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.
- 33. FURNISH AND INSTALL ALL COPPER MATERIALS INCLUDING BUT NOT LIMITED TO LUGS, COPPER BUS DETAILS/LUGS KITS, BUS BAR EXTENSIONS, MULTI-TAPS, ETC REQUIRED FOR OVER SIZED FEEDERS AND/OR REQUIRED TO ACCEPT INCOMING AND OUTGOING CABLES TO COMPLETE CONTRACT WORK. ALSO PROVIDE LABOR AND MATERIAL REQUIRED TO MODIFY EXISTING OR NEW EQUIPMENT INCLUDING ENCLOSURE MODIFICATIONS. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL FINAL CONNECTIONS.
- 34. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS OR INTERIOR DETAILS IN CENTERING OUTLETS AND LOCATING BOXES OR OUTLETS ALLOW FOR OVERHEAD PIPES, DUCTS, MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING, ETC , AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- 35. VERIFY SWITCHES. DIMMERS. RECEPTACLES AND COVER PLATES FINISHES WITH THE ARCHITECT AND/OR OWNER REPRESENTATIVE BEFORE PURCHASING AND INSTALLATION OF SUCH DEVICES.
- 36. WHERE MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION, THEY SHALL BE GANGED TOGETHER AND MOUNTED BEHIND A COMMON FACE PLATE UNLESS POWERED FROM AN EMERGENCY POWER SOURCE. PROVIDE SEPARATE OUTLET BOXES FOR NORMAL AND EMERGENCY CIRCUITS.
- 37. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER FOR EACH RECEPTACLE LOCATED WITHIN 6'-0" OF WATER OR LIQUIDS AND FOR OUTDOORS RECEPTACLES WHETHER INDICATED ON DRAWINGS OR NOT
- 38. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE COORDINATED WITH ARCHITECT UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX U.O.N.):
- A. RECEPTACLES (WALL MOUNTED) 18" AFF
- B. RECEPTACLES (COUNTERTOPS) NO MORE THAN 20" ABOVE THE COUNTERTOP
- C. VOICE/DATA OUTLETS 18" AFF D. WALL MOUNTED TELEPHONES — 48" AFF
- E. LIGHTING SWITCHES AND CONTROLS 48" AFF
- F. PANEL BOARDS AND CABINETS 78" TO TOP OF ENCLOSURE
- G. MANUAL PULL STATIONS 48" AFF
- H. FIRE ALARM AUDIO/VISUAL AND STROBE UNITS 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
- 39. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY CASKETED. FOR A COMPLETE RAIN TIGHT INSTALLATION ALL BUILDING EXTERIOR MOUNTED RECEPTACLES SHALL BE GFI RATED AND MOUNTED IN WEATHERPROOF ENCLOSURE.
- 40. THE AREA ABOVE THE ELECTRICAL EQUIPMENT SUCH AS DISTRIBUTION BOARDS, PANEL BOARDS, TRANSFORMERS, ETC , SHALL BE DEDICATED FOR ELECTRICAL INSTALLATION AND SHALL BE CLEAR FROM WORK OF OTHER TRADES (PIPING, DUCTS, ETC).
- 41. FOR ALL RECESSED PANELS A TROUGH SHALL BE PROVIDED IN THE NEAREST ACCESSIBLE CEILING WITH TWO (2) SPARE 2" CONDUITS AND TWO (2) SPARE 1" CONDUITS UNLESS OTHERWISE NOTED TO BE
- INTERCONNECTED BETWEEN THE TROUGH AND THE RECESSED PANEL FOR FUTURE USE 42. PROVIDE AND/OR REVISE THE PANEL DIRECTORY OF EACH AND EVERY NEW AND/OR EXISTING PANEL BOARD AFFECTED BY ELECTRICAL WORK.
- 43. PROVIDE BLANK COVERS PLATES OVER ALL UNUSED OPENINGS IN NEW AND/OR EXISTING PANEL BOARDS. 44. SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT (CIRCUIT BREAKERS, FUSES, DISCONNECT SWITCHES, PANEL BOARDS, ETC) SHALL MEET OR EXCEED THE AVAILABLE FAULT CURRENT AT THEIR POINT OF
- CONNECTION AS REQUIRED FOR A FULLY RATED SYSTEM. 45. PROVIDE UN-FUSED DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS.
- 46. THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTIVE DEVICES ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. MINIMUM DISCONNECT SWITCH SIZE IS 30 AMPERES.
- 47. ALL EQUIPMENT SHALL HAVE COPPER CURRENT CARRYING PARTS INCLUDING GROUND BUS AND TERMINALS. ALUMINUM SHALL NOT BE PERMITTED.
- 48. FOR CIRCUITS RATED AT 120V, 20A THAT RUN OVER 100'-0", USE NO. 10 AWG WIRE SIZE. FOR CIRCUITS RATED AT 277V.20A THAT RUN OVER 200'-0", USE NO. 10 AWG WIRE SIZE
- 49. BRACH CIRCUIT CONDUCTORS SHALL BE INCREASED IN SIZE TO COMPENSATE FOR VOLTAGE DROP. 50. ARCHITECTURAL FEATURES AS WELL AS OTHER TRADES EQUIPMENT SHOWN ON ELECTRICAL DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. COORDINATE WITH OTHER TRADES TO DETERMINE THE EXACT LOCATION OF FANS, A/C UNITS, MOTORS, PUMPS, EQUIPMENT TERMINAL BOXES, AND OTHER EQUIPMENT TO
- BE INSTALLED BY OTHER TRADES BEFORE CONDUIT WORK IS STARTED. 51. PROVIDE 4-INCH HIGH CONCRETE HOUSING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
- COORDINATE WITH GENERAL CONTRACTOR. 52. FOR EXACT LOCATION OF LIGHT FIXTURES, LIGHTING FIXTURE SCHEDULE AND LIGHTING SYMBOLS REFER TO ARCHITECTURAL AND/OR LIGHTING CONSULTANT DRAWINGS. INFORMATION SHOWN IN ELECTRICAL DRAWINGS IS FOR REFERENCE ONLY. FINAL LIGHTING APPROVAL BY ARCHITECT.
- 53. MOUNTING ACCESSORIES FOR RECESSED LIGHTING FIXTURES SHALL BE APPROPRIATE TO MEET THE REQUIREMENTS OF THE CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE SCHEDULE.
- 54. PENDANT MOUNTED FIXTURES IN AREAS WITH NO HUNG CEILING SHOULD BE INSTALLED AFTER DUCTWORK AND PIPING HAVE BEEN INSTALLED. COORDINATE MOUNTING HEIGHT AND LOCATION OF LIGHTING FIXTURES TO CLEAR MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING EQUIPMENT AND PIPING.
- 55. CONTRACTOR TO BE RESPONSIBLE FOR ALL PENETRATIONS, CORE DRILLING SEALING, WATERPROOFING, CUTTING, PATCHING, PAINTING AND RESTORATION FOR THE COMPLETE CONTRACT WORK INDICATED. ALL RESTORATION WORK PERFORMED BY THIS CONTRACTOR SHALL RESTORE DISTURBED SURFACES TO ACCURATELY MATCH ALL SURROUNDING CONSTRUCTION USING THE SAME MATERIAL, WORKMANSHIP AND FINISH AS EXISTING SURFACES.
- 56. CONTRACTOR TO PROVIDE LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND MAINTENANCE OF TEMPORARY LIGHTING AND REQUIRED POWER SOURCES.
- 57. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED WHERE NECESSARY. EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE AREAS.
- 58. FOR PROJECTS RATED 1,000 KVA OR LARGER, THE CONTRACTOR SHALL BE RESPONSIBLE TO CREATE AND FILE NYC ADVISORY BOARD FILING DRAWINGS AND PAY ALL NECESSARY FEES NO CONSTRUCTION SHALL BE STARTED UNTIL AN APPROVAL HAVE BEEN GRANTED.
- 59. MAINTAIN CONTINUOUS SERVICE ON FEEDERS SERVING THE AREAS AFFECTED DURING ALL THE PERIOD THE AREA IS UNDER CONSTRUCTION. NO OUTAGES WILL BE PERMITTED IN THESE AREAS DUE TO THE CONSTRUCTION PHASE. ALL WORK REQUIRING TEMPORARY SHUTDOWN SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. ANY REQUEST FOR SHUTDOWNS SHOULD BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE AND BUILDING OPERATING PERSONNEL AND IT MUST BE NOTIFIED 72 (SEVENTY-TWO) HOURS IN ADVANCE WORK SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL.
- 60. ALL WORK REQUIRING ELECTRICAL SHUTDOWN WHICH WILL AFFECT OTHER FLOORS OF THE BUILDING OR EVEN AFFECT THE NORMAL CONTINUATION OF CONSTRUCTION WORK ON THESE & OTHER FLOORS, SHALL BE DONE ON OVERTIME HOURS, AND SHALL NOT DISTURB CONTINUITY OF ELECTRICAL SERVICE TO EXISTING TENANTS ON THE AFFECTED FLOORS AND SHALL BE COORDINATED WITH THE BUILDING ENGINEER.
- 61. ALL FLECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY THIS WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING.

- 62. ALL PENETRATIONS THROUGH OR CHOPPING OF FLOOR SLAB FOR ELECTRICAL INSTALLATION SHALL BE COORDINATED WITH BUILDING MANAGER. ALL WORK SHALL BE PERFORMED AFTER NORMAL BUSINESS HOURS LOCATIONS SHALL BE LAID OUT AND CONFIRMED BY ARCHITECT PRIOR TO START OF PHYSICAL
- 63. BRANCH CIRCUITS SERVING DIMMING BALLASTS SHALL HAVE A DEDICATED NEUTRAL; SHARING OF NEUTRALS SHALL NOT BE PERMITTED PROVIDE NEUTRAL BARS WITH SUFFICIENT TERMINALS AS REQUIRED.
- 64. WHENEVER ELECTRONIC OR ADJUSTABLE CIRCUIT BREAKERS ARE PROVIDED, THE CONTRACTOR SHALL SUBCONTRACT THE SERVICES OF A QUALIFIED SWITCHBOARD MANUFACTURER TO CALCULATE THE REQUIRED TRIP COORDINATION SETTINGS INCLUDING BUT NOT LIMITED TO, THE LONG DELAY, SHORT DELAY, GROUND FAULT, PICKUP, TRIP TIMES AND SHORT CIRCUIT CURRENT, ETC. THE CONTRACTOR SHALL ALSO INCLUDE THE SERVICES OF THE MANUFACTURER'S FIELD SERVICE TECHNICIAN TO INSTALL, PROGRAM AND ADJUST THE CIRCUIT BREAKERS PROVIDE ALL NECESSARY JUMPER CONNECTIONS, CONTROL WIRES AND MODIFICATIONS.
- 65. WHENEVER EXCAVATION, CORE DRILLING OR CUTTING OF SLABS, CONCRETE OR PAVEMENT ARE PERFORMED, THE CONTRACTOR SHALL HIRE AN EXPERT TO PERFORM SUBSURFACE SCANS TO IDENTIFY AND FLAG UTILITIES, REBAR, ETC SO THEY ARE 'NOT DAMAGED. ANY DEVIATIONS FROM THE PENETRATIONS INDICATED ON THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE EOR AND/OR OWNER.
- 66. CONTRACTOR SHALL PREPARE FIELD ERECTION DRAWINGS AS REQUIRED FOR THE USE OF ITS MECHANICS TO INSURE PROPER INSTALLATION.
- 67. CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLING MANUFACTURER'S GUARANTEED EQUIPMENT. THIS PERSONAL GUARANTEE SHALL EXIST FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK AND SHALL APPLY TO DEFECTS IN MATERIAL AND TO DEFECTIVE WORKMANSHIP OF ANY KIND.
- 68. CONTRACTOR TO STORE MATERIALS AND EQUIPMENT DURING THE PROGRESS OF THE WORK AT PROPER STORAGE PLACE
- 69. BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIAL AND EQUIPMENT EMPLOYED IN THE ELECTRICAL INSTALLATION UNTIL FINAL ACCEPTANCE BY THE OWNER PROTECT SAME FROM ANY CAUSE WHATSOEVER
- 70. BE RESPONSIBLE FOR THE REPLACEMENT OF ALL DAMAGED OR DEFECTIVE WORK, MATERIALS OR EQUIPMENT 71. DO NOT INSTALL SENSITIVE OR DELICATE EQUIPMENT UNTIL MAJOR CONSTRUCTION WORK IS COMPLETED. OBSERVE AND CONFORM TO APPLICABLE SAFETY REGULATIONS, INCLUDING THOSE REQUIRED BY THE OWNER'S REPRESENTATIVE.
- 72. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS FOR THE PROTECTION OF OCCUPANTS. TRANSIENTS AND WORKMEN FROM DANGER DUE TO WORK PERFORMED BY THE ELECTRICAL CONTRACTOR.
- 73. MAKE GOOD ANY DAMAGE TO THE WORK CAUSED BY FLOODS, STORMS, ACCIDENTS, ACTS OF GOD, ACTS OF NEGLIGENCE, STRIKES, VIOLENCE OR THEFT UP TO THE TIME OF FINAL ACCEPTANCE BY THE OWNER BE RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLECT OR ANY OTHER CAUSES ON THE PART OF THE CONTRACTOR.
- 74. DO NOT LEAVE ANY ELECTRICAL WORK IN A HAZARDOUS CONDITION, EVEN TEMPORARILY ERECT, MAINTAIN AND FINALLY REMOVE ALL SCAFFOLDS, STAGING, FORMS, PLATFORMS AND LADDERS REQUIRED FOR THE ELECTRICAL INSTALLATION.
- 75. DO NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE AND THE OWNER. A WRITTEN REQUEST FOR EXTRA WORK SHALL STATE THE NATURE OF THE WORK, BY WHOM REQUESTED, AND THE PRICE TO BE CHARGED.

	DRAWING LIST
SHEET NO.	SHEET NAME
E001	GENERAL NOTES
E002	ELECTRICAL NOTES, LEGENDS AND SLD
E003	TYPICAL DETAILS
E100	ELECTRICAL PLAN



ADDRESS: Atkins Rd, arina, NC 27

SITE ADDR 1253 Atkins Fuquay-Varina, I



Hinden Indep

DRAWN BY:	SMB
CHECKED BY:	MKC
DATE:	11-23-2020
SCALE:	AS SHOWN

WIRING DEVICE NOTES

WIRING DEVICES SHALL BE SPECIFICATION GRADE, IVORY WITH NYLON FACE AS FOLLOWS:

	HUBBELL	P&S	ARROW HART
20 AMP DUPLEX	5352	53521	5362
GROUND FAULT RECEPTACLE	GF52621	1591SIWL	GF82001
SINGLE RECEPTACLE, 20A, 240V			
SINGLE POLE SWITCH	1221	20AC1	1991
THREE WAY SWITCH	20AC3	1223	1993

COVER PLATES ON WALLS SHALL BE RIGID NON-METALLIC. SMOOTH FINISH, IVORY IN COLOR, AND SHALL BE STANDARD SIZE OVERSIZE PLATES ARE NOT ACCEPTABLE

ENGRAVED PLATES SHALL HAVE 3/16" LETTERS.

PHOTOELECTRIC CONTROL: TORK #2101, FACING NORTH

FLOOR BOXES: HUBBELL B-2436,B-4233, B-4333;STEEL CITY 640 SERIES

GENERAL ELECTRICAL NOTES

- 1. INSTALL LIGHT CONTROL ON STRIKE SIDE OF DOOR (UNLESS OTHERWISE NOTED).
- 2. COMBINE NO MORE THAN 6 CURRENT CARRYING CONDUCTORS IN ANY SINGLE HOME RUN FROM A PANEL. 3. PROVIDE CIRCUIT BREAKER FILLER, BLANK COVER PLATE, FOR ALL THE EMPTY SPACES WITHIN THE
- 4. PROVIDE BLANK COVER PLATE FOR ALL THE UNUSED JUNCTION OR DEVICE BOXES.
- 5. EACH SINGLE PHASE BRANCH CIRCUIT SHALL BE PROVIDED WITH PHASE, DEDICATED NEUTRAL AND GROUND CONDUCTOR.
- 6. ALL MOUNTING HEIGHTS INDICATED ARE TO BE CENTERLINE OF THE DEVICE BOX UNLESS OTHERWISE
- COORDINATE WITH ARCHITECTURAL ELEVATION FOR EXACT MOUNTING HEIGHT.
- ADJUST CIRCUITING AS NECESSARY TO BALANCE PANEL BOARD CONNECTED LOADS WITHIN \pm %10. 9. CONSULT LIGHTING FIXTURE TYPE WITH ARCHITECT OR THE INTERIOR DESIGNER BEFORE ANY INSTALLATION.
- 10. ALL SWITCHING TO BE CONVENTIONAL UNLESS OTHERWISE IS NOTED.
- 11. ANY EXTERIOR OUTLET LOCATION TO BE CONFIRMED WITH ARCHITECT OR LANDSCAPE CONTRACTOR.
- 12. DIMENSIONS ARE TAKEN FROM THE CENTER OF THE OUTLET UNLESS OTHERWISE IS NOTED. 13. CONTRACTOR TO PROVIDE INDIVIDUAL METERING FOR EACH DWELLING UNITS PER IECC SECTION 405.7.
- 14. CONTRACTOR TO COORDINATE WITH ARCHITECT TO PROVIDE CLOSED (LOCKABLE DOOR) UTILITY ROOM FOR ELECTRICAL PANELS PER NEC 240.24(B). ALSO VERIFY REQUIRED ELECTRICAL CLEARANCE FOR MDP PER
- NEC110.26. 15. PROVIDE ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F TO CENTER-LINE OF DEVICE (TYPICAL) OR 42" A.F.F TO CENTER-LINE OF DEVICE (ADA UNITS), U.N.O., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.N.O..
- 16. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
- 17. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS, ARCHITECT TO PROVIDE '2'
- FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
- 18. WHERE A FIRE ALARM SYSTEM IS INSTALLED, ACTUATION OF THE AUTOMATIC SPRINKLER SYSTEM SHALL ACTUATE THE BUILDING FIRE ALARM SYSTEM.
- 19. LIGHTING FIXTURE LAYOUTS INDICATED ON PLAN ARE FOR CONVENIENCE ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT THE LIGHTING FIXTURE LAYOUT AND INSTALL ACCORDINGLY.
- 20. GENERAL CONTRACTOR SHALL COORDINATE CEILING INSTALLATION AS REQUIRED TO ALLOW ELECTRICAL CONTRACTOR TO INSTALL LIGHTING FIXTURES AS INDICATED.
- 21. ALL DOWN LIGHTS SHALL BE ALIGNED IN CEILING UNLESS OTHERWISE NOTED.
- 22. EXTEND TO DUAL LEVEL LIGHTING SWITCHES AT SWITCH BANK.
- 23. PROVIDE BLDG MOUNTED PHOTOCELL TO CONTROL FIXTURE AT ENTRANCE.
- 24. PROVIDE ARC DEFAULT BREAKERS ON BEDROOM CIRCUITS PER 2017 NEC ART. 210-12.
- 25. BATHROOMS TO BE CIRCUITED INDEPENDENTLY OF REST OF UNIT PER 2017 NEC ART. 210-11.
- 26. PROVIDE ARC-FAULT CIRCUIT INTERRUPTING (AFCI) BREAKER TO ALL BRANCH CIRCUIT SERVING ALL OUTLETS AND DEVICES AS PER SECTION 210.52(A).
- 27. ALL SMOKE DETECTORS ARE HARD WIRED, INTERCONNECTED AND BATTERY BACKED.
- 28. AT LEAST ONE GFCI/WP RECEPTACLE IS REQUIRED AT THE FRONT AND BACK 1 FEET ABOVE OF THE HOUSE. SUCH RECEPTACLES CANNOT BE MORE THAN $6\frac{1}{2}$ THE GROUND PER NEC 210.52E(1).
- 29. BALCONIES, DECKS AND PORCHES THAT ARE ACCESSIBLE FROM INSIDE SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET INSTALLED PER NEC 210.52E(3).
- 30. ALL ELECTRICAL WIRING, BOXES, CONDUITS AND RACEWAYS PENETRATING FIRE—RESISTANCE RATED MEMBRANES MUST BE PROPERLY SEALED TO ASSURE THAT THE REQUIRED FIRE-RESISTANCE RATING IS NOT
- REDUCED. 31. ALL LIGHTING THROUGH OUT PROJECT ARE OF HIGH EFFICIENCY LIGHTING TO INCLUDE EXTERIOR LIGHTING.
- 32. ALL EXTERIOR OUTLETS AND RECEPTACLES ARE WEATHER RESISTANT PER NEC 406.9(A) & (B). TYPICAL.
- 33. ALL TELEPHONE LINES ARE TO BE CONCEALED AND OUTLETS RECESSED. ALL TELEPHONE SERVICE TO BE CAPABLE OF CARRYING LINES IN EACH FLOOR AS DETERMINED BY THE ARCHITECT OR OWNER.
- 34. ALL SWITCHES DIMMERS ARE TO BE TOGGLE TYPE. ALL OUTLETS ARE TO BE RECESSED. ALL WIRING IS
- TO BE CONCEALED. ALL SMOKE DETECTORS TO BE NEW HARDWIRED.
- 35. VERIFY FIXTURE AND OUTLET LOCATIONS WITH OWNER PRIOR TO RUNNING ELECTRICAL FEEDS.

GENERAL POWER COORDINATION NOTES

- 1. WHEREVER POSSIBLE, OUTLETS SHALL BE GANGED TO REQUIRE A SINGLE PLATE.
- 2. COORDINATE LOCATIONS OF RECEPTACLES AND SWITCHES MOUNTED ON MILLWORK/BACKSLASH MILLWORK/CABINET SUPPLIER. POSITION JUNCTION BOXES TO FINISH FLUSH WITH MILLWORK/BACKSLASH
- 3. MOUNT ALL NEW OUTLETS AT +18" A.F.F. ON CENTER, UNO.
- 4. OUTLETS ABOVE COUNTERTOPS TO BE MOUNTED HORIZONTALLY, 6" ABOVE COUNTERTOP O.C.
- 5. OUTLETS LOCATED ADJACENT TO SINKS AND IN BATHROOM TO BE GROUND FAULT INTERRUPT PROTECTED.
- 6. ITEMS INDICATED AS EXISTING WILL BE TERMED "EXISTING" OR "E", UNO.
- 7. ALL ELECTRICAL DEVICES SUCH AS OUTLETS & SWITCHES SHALL BE DECORATED BY LEVITON.

GENERAL LIGHTING COORDINATION NOTES

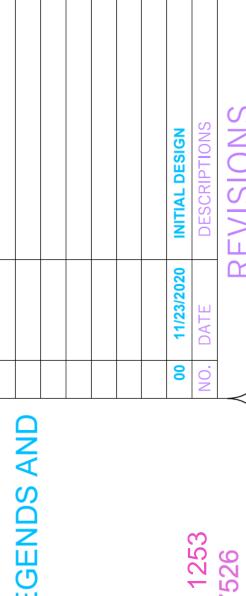
- REFER TO SCHEDULES. LEGENDS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 2. REFER TO LIGHTING PLANS FOR LIGHT FIXTURE AND LIGHT SWITCH LOCATIONS.
- 2. PAINT EXISTING AND NEW DRYWALL CEILING, UNO.
- 3. SWITCH HEIGHT TO BE 38" AFF, UNO. WHEN SWITCHES AND DIMMERS ARE ADJACENT, ALIGN THE
- HORIZONTAL CENTERLINES. PROVIDE 1" BETWEEN EACH DEVICE FACE PLATE. 4. EXISTING LIFE SAFETY DEVICES TO REMAIN DURING CONSTRUCTION.
- 5. DIMENSIONS ARE INDICATED FROM FACE OF SCHEDULED EXISTING PARTITION TO CENTER OF LIGHT FIXTURE.

LIGHTS, FIXTURES, EXIT SIGNS AND OTHER DEVICES SHOWN FOR FIXTURE LOCATION AND TYPE ONLY.

- 7. GYP BOARD IN THE BATHROOM CEILING TO BE MOISTURE RESISTANT. REPAIR DRYWALL CEILING AS NECESSARY IN LOCATIONS OF LIGHT FIXTURE DEMOLITION AND INSTALLATION.
- 8. FOR ALL LIGHT FIXTURES. REFER TO MANUFACTURER'S RECOMMENDATION FOR FRAMING AND SUPPORT OF CEILING SYSTEM.
- 9. LIGHTING FIXTURE LOCATIONS, AS SHOWN ON LIGHTING PLANS, SHALL TAKE PRECEDENCE OVER ALL OTHER SYSTEMS. OBTAIN WRITTEN APPROVAL FROM ARCHITECT PRIOR TO EXECUTING ANY CHANGES IN LOCATION. 10. CONFIRM THAT ALL FIXTURES ARE U.L. OR E.T.L. LISTED AS A SYSTEM AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL
- 11. CONFIRM THE FINAL CEILING MATERIAL AND INSTALLATION IN ALL LOCATIONS AND PROVIDE THE NECESSARY TRIMS, HANGERS AND HARDWARE AS REQUIRED.
- 12. PROVIDE SELF-FLANGED, OVERLAP TRIMS OF THE SAME MATERIAL AND FINISH AS THE REFLECTOR FOR ALL RECESSED FIXTURES.
- 13. ASSURE THAT ALL OPEN REFLECTOR AND ALZAK CONE APERTURE TYPE FIXTURES MATCH IN COLOR AND APPEARANCE REGARDLESS OF TYPES AND SOURCE.
- 14. ASSURE THAT ALL OPEN REFLECTOR AND ALZAK CONE APERTURE TYPE FIXTURES ARE FREE OF SCRATCHES, DENTS, DUST, FINGERPRINTS, ETC., AT CLOSE OF JOB.
- 15. ALL INTEGRAL BALLAST AND/OR TRANSFORMER TYPE FIXTURES HAVE BEEN SPECIFIED WITH 120-VOLT PRIMARY. CONFIRM ACTUAL VOLTAGE REQUIREMENTS AND SUPPLY.
- 16. CONFIRM ALL FINISHES NOT SPECIFIED WITH ARCHITECT PRIOR TO ORDERING.
- 17. CONSTRUCT ALL ARCHITECTURAL COVE TYPE FIXTURES AS DETAILED AND DIMENSIONED. OBTAIN WRITTEN APPROVAL FROM ARCHITECT PRIOR TO UNDERTAKING ANY CHANGES TO DIMENSIONS OR CONFIGURATION.
- 18. CONFIRM WITH ARCHITECT THE LOCATION, PENDANT LENGTH, AND EXACT FINAL A.F.F. MOUNTING HEIGHT FOR ALL SUSPENDED FIXTURE TYPES.
- 19. CONFIRM AND SUPPLY THE EXACT TYPE, SIZE AND QUANTITY OF ALL LAMPS REQUIRED FOR EACH FIXTURE
- 20. AT CLOSE OF JOB, RE-LAMP ALL FIXTURES WITH NEW LAMPS AND PROVIDE OWNER WITH 2% SPARE (NEW) LAMPS OF ALL LAMP TYPES.
- 21. PROVIDE 3000 KELVIN LAMPS FOR ALL FLUORESCENT FIXTURES.
- 22. SIZE ALL TRANSFORMERS PER NATIONAL ELECTRIC CODES.
- 23. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS REFER TO ARCHITECTURAL DRAWINGS. COORDINATE ALL SWITCHES WITH MILLWORK/CABINETS.
- 24. SUBMIT PRODUCT DATA FOR ARCHITECT'S APPROVAL
- 25. GANG ALL ADJACENT SWITCHES UNDER ONE COVER PLATE.
- 26. ALL DEVICE PLATES TO BE WHITE.
- 27. ALL SWITCHES TO BE DECORATED BY LEVITON.
- 28. ALL LIGHTING FIXTURES TO BE APPROVED BY THE ARCH. OWNER PRIOR TO ORDERING AND INSTALLING.
- 29. ARCHITECT TO SELECT COLOR OF LIGHTING FIXTURES.
- 30. REFER TO ARCHITECTURAL REFLECTED CEILING AND ELEVATION PLANS FOR EXACT LOCATION AND MONITORING HEIGHTS.
- 31. A MINIMUM OF 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS OR A MINIMUM OF 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICIENCY LAMPS.
- 32. EXTERIOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 409.2 FOR THE EXTERIOR LIGHTING ZONES(LZ) APPROPRIATE TO THE BUILDING SITE.
- 33. STRAIGHT, DOUBLE-ENDED FLUORESCENT LAMPS LESS THAN 6 FEET IN NOMINAL LENGTH AND WITH BI-PIN BASES SHALL CONTAIN NOT MORE THAN 5 MILLIGRAMS OF MERCURY PER LAMP.
- 34. INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.
- 35. IC-RATED RECESSED LIGHTING FIXTURES SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE EQUAL OR LESS THAN 2.0 CFM LEAKAGE AT 75 PA.

ELECTRICAL	SYMBOLS
\$	1 WAY SWITCH
3 \$	2 WAY SWITCH
Ф	DUPLEX WALL OUTLET
$\bigoplus \Delta$	DATA AND RECEPTACLE OUTLET
110V. SD CM	CO AND SMOKE COMBINATION DETECTOR
	EXHAUST FAN
	FLUSH TYPE PANEL BOARD
M	ELECTRIC METER
	HORN
•	MANUAL PULL STATION
	SPEAKER/HORN WITH STROBE LIGHT
⊕ ▼□	TV,DATA,VOICE AND OUTLET
	GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE
EXIT	EGRESS LIGHT
	DISCONNECTING SWITCH
∰)	WEATHER PROTECTED GFI RECEPTACLE
	PENDANT LED TUBE LIGHT
	PENDANT ROUND LIGHT
	OUTDOOR LIGHT

CONCRETE ENCASED GROUNDING ELECTRODE OR REBAR BLDG STEEL WATER MAIN POWER SERVICE DROP 480Y/277V, 3PH, 4W WATER METER 10'-0"	
(1) RUN 3#350 KCMIL , 1#350 KCMIL (N) & 1#3 CU GROUND IN 3" PVC-40 CONDUITS UNDERGROUND, AND 3" RGS CONDUITS (WHERE EXPOSED. ALL CONDUCTORS TO HAVE TYPE (THHN/THWN-2) 90° C INSULATION ELECTRIC POWER COMPANY #2 AWG (CU) JUMPER #2 AWG (CU) #2 AWG (CU) #2 AWG (CU) GROUNDING	#2 AWG (CU) GROUNDING ELECTRODE CONDUCTOR NO SPLICES FROM PANEL TO LAST ROD GROUND RODS: 3/4" Ø x 10'-0"L COPPER CLAD STEEL w/ HIGH-STRENGTH STEEL CORE & ELECTROLYTIC-FRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE
` Î	NOTES: 1. ALL PANELBOARDS SUPPLIED BY A FEEDER CONDUCTOR SHALL BE MARKED (LABELED) TO INDICATE WHERE THE POWER SUPPLY FOR THE PANELBOARD ORIGINATES FROM IN ACCORDANCE WITH THE NEC 408.4(B).
30-4W 480Y/277V SCALE: NTS	2. POST AVAILABLE FAULT CURRENT RATINGS SHALL BE FIELD MARKED ON THE ELECTRICAL SERVICE EQUIPMENT IN THE FIELD PER NEC 110.24(A).





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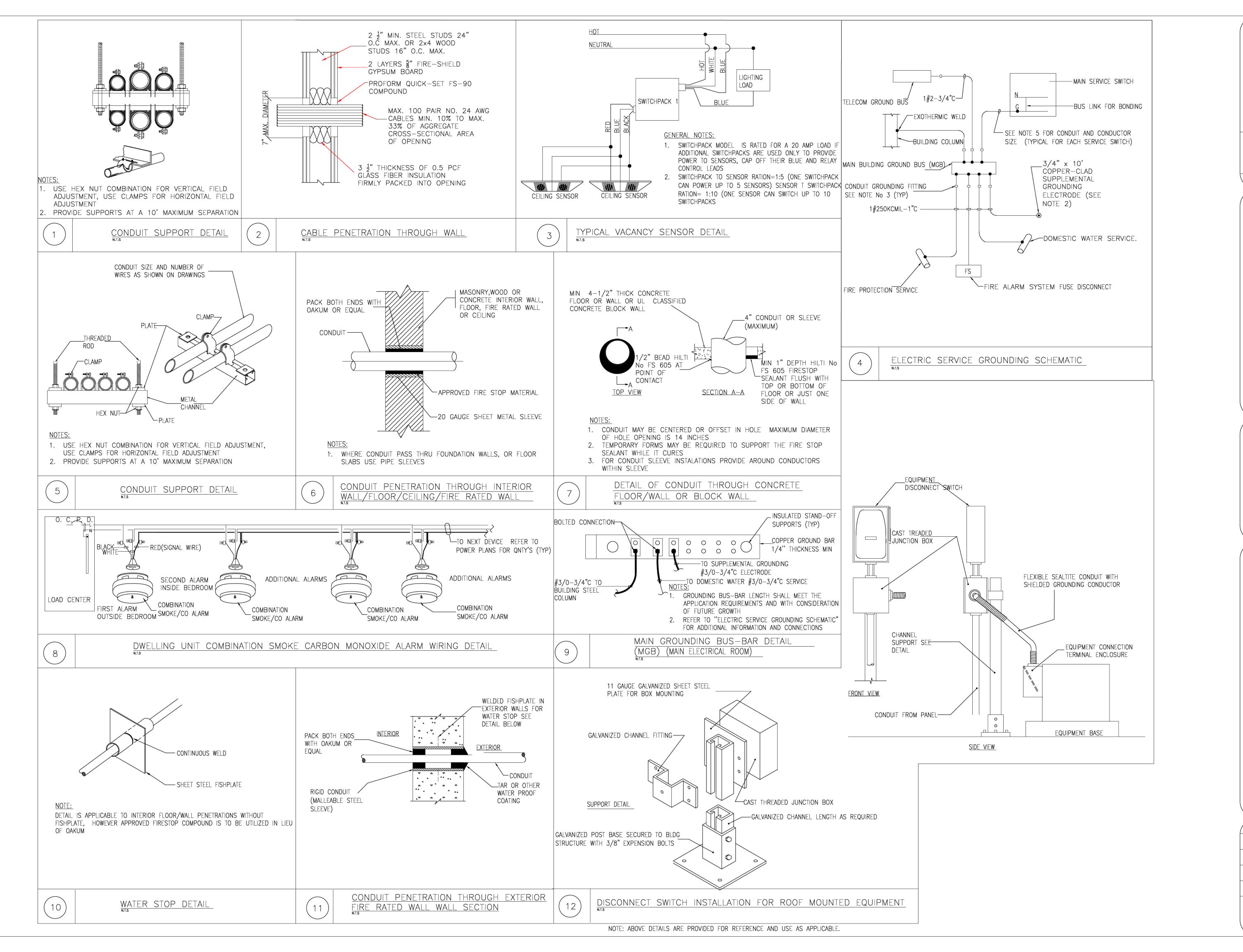
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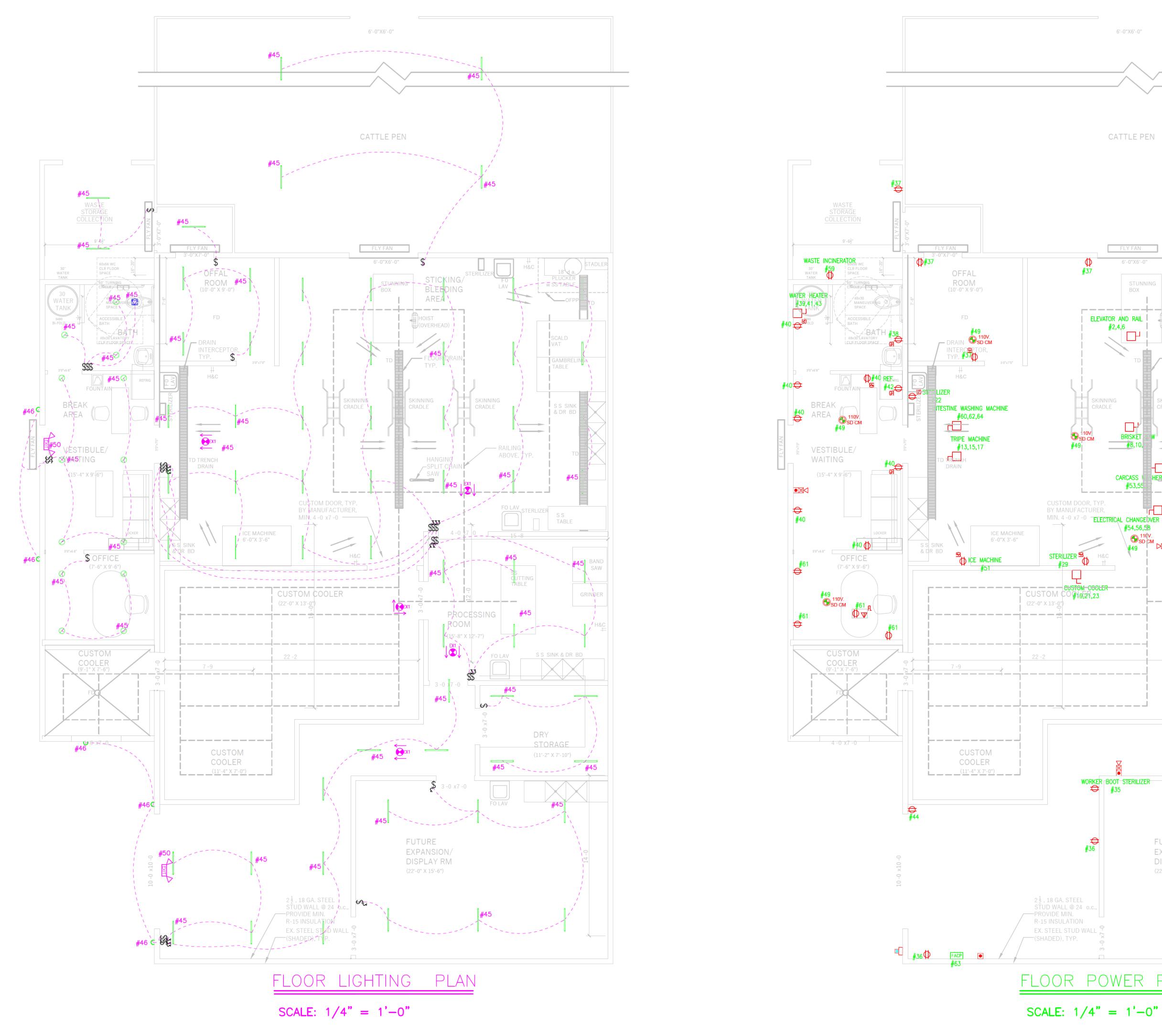
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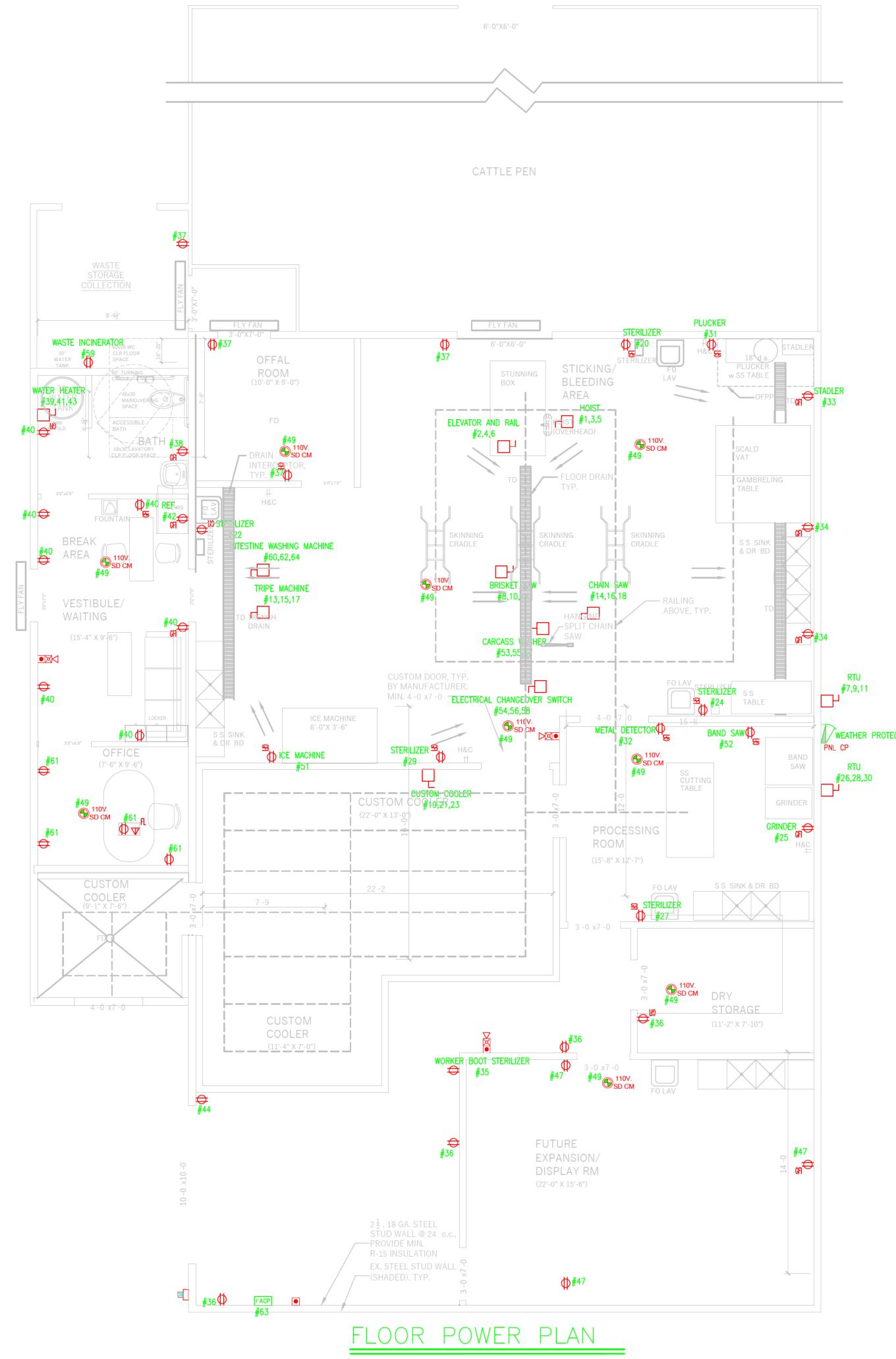
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RGH SOUTH DRIVE, SUIT
CARY, NC 27511

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