

GENERAL NOTES:

- 1. ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
2. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.
3. DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
4. EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT LEAST EVERY EIGHT (8) FEET.
5. ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
6. NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE ON PLANS.
7. EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
8. ALL LIGHTING WIRING SHALL BE #12AWG. UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH CASE.
9. CONDUITS PASSING THROUGH BUILDING FLOORS OR WALLS BELOW GRADE ARE TO BE INSTALLED WITH WATERIGHT THRU WALL CONDUIT SEAL FITTINGS.
10. EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
11. ONLY CONDUITS HAVING OUTSIDE DIAMETERS NO LARGER THAN ONE-THIRD OF THE THICKNESS OF SLAB MAY BE INSTALLED WITHIN THE CONCRETE SLABS.
12. CONDUITS IN STRUCTURAL SLABS ARE TO BE SPACED SO AS TO PROVIDE NO LESS THAN THREE CONDUIT DIAMETERS, CENTER TO CENTER, WHEREVER POSSIBLE. LARGER SPACING IS PREFERRED.
13. CONTINUOUS ROWS OF CONDUITS ARE NOT TO BE PLACED IMMEDIATELY ALONG BEARING ENDS OF SLABS.
14. THE ELECTRICAL CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.
15. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
17. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
18. PRIOR TO SUBMISSION OF BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CAREFULLY THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL BE INCURRED DURING THE PERFORMANCE OF HIS WORK.
A. VERIFY & COORDINATE CONDUIT ROUTING.
B. VERIFY & COORDINATE SCOPE OF DEMOLITION WORK.
C. VERIFY & COORDINATE SCOPE OF WORK INVOLVING CONNECTIONS TO EXISTING BASE BUILDING SYSTEMS.
D. VERIFY SCOPE OF WORK THAT HAS TO BE DONE WITH EXISTING FIRE ALARM SYSTEM AS REQUIRED TO ACCOMMODATE ALL ADDED DEVICES.
E. VERIFY WITH GENERAL CONTRACTOR SCOPE OF WORK ASSOCIATED WITH RIGGING OF EQUIPMENT TO BE PREPURCHASED.
F. COORDINATE WITH THE BUILDING ENGINEER AND GENERAL CONTRACTOR SHUT DOWNS OF EXISTING FACILITIES.
19. ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
20. CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
21. CONNECTIONS TO EXISTING WORK:
A. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
B. TEMPORARY SHUTDOWNS OF EXISTING SERVICES:
a. AT NO ADDITIONAL CHARGES.
b. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING SERVICES.
c. ONLY WITH WRITTEN CONSENT OF THE GENERAL CONTRACTOR AND/OR BUILDING OWNERS REPRESENTATIVE.
C. ALARM AND EMERGENCY SYSTEMS: NOT TO BE INTERRUPTED.
D. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
E. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
F. PRIOR TO DEMOLITION OF AN EXISTING POWER PANEL, THE CONTRACTOR SHALL SEARCH OUT ALL EXISTING CIRCUITS FED FROM THE PANEL TO PREVENT ANY ACCIDENTAL SERVICE INTERRUPTIONS.
22. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED-FURNISH PULL STRING.

ENERGY CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

UNIFORM CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ELECTRICAL DEMOLITION NOTES:

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. DISCONNECT AND REMOVE ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING FROM ALL WALLS/CEILINGS BEING REMOVED, WITHIN THIS AREA BACK TO POWER PANEL OF ORIGIN. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN IN PLACE AND LABELED AS "SPARE".
3. ALL EXISTING DEVICES SCHEDULED TO REMAIN SHALL BE EXTENDED/RE-CIRCUITED TO MAINTAIN CONTINUITY OF CIRCUIT/DEVICES.
4. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING.
5. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY WORK AND/OR MATERIALS TO RENDER EXISTING SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION IN ALL OCCUPIED SPACES. INCLUDING BUT NOT LIMITED TO, POWER, DATA, LIGHTING, EMERGENCY COMPONENTS & ALARMS. COORDINATE WITH ALL TRADES, OWNER AND OVERALL CONSTRUCTION PHASING SCHEDULE.
6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

FIRE ALARM NOTES:

- 1. REFER TO THE FLOOR PLANS FOR LOCATION & QUANTITY OF FIRE ALARM DEVICES.
2. ALL FIRE ALARM WIRING SHALL BE IN TEFLON WIRE AND SHALL BE CONCEALED IN CEILING SPACES & WALLS.
3. SYSTEM SCHEMATIC IS A DIAGRAMMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. THE SYSTEM SHALL BE INSTALLED AND WIRED AS PER THE SYSTEM MANUFACTURER'S RECOMMENDATION FOR A COMPLETE AND OPERABLE SYSTEM.
4. CONTRACTOR IS RESPONSIBLE FOR ALL FILING AND FINAL INSPECTION AS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MODULES, INTERFACE MODULES AND DEVICES REQUIRED TO PROVIDE AN OPERABLE ALARM SYSTEM IN COMPLIANCE WITH ALL CODES.
6. FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.
7. ACTIVATION OF THE SMOKE DETECTORS SHALL CAUSE A GENERAL ALARM AFTER THE SMOKE DETECTOR PERFORMS VERIFICATION.
8. ACTIVATION OF ANY PULL STATION OR HEAT DETECTOR SHALL IMMEDIATELY CAUSE THE ALARM PANEL TO ENTER THE ALARM MODE.
9. UPON ENTERING THE PANEL ALARM MODE, THE ALARM INDICATING DEVICE SHALL BE ACTIVATED, AND THE SUPPLY FANS OVER 2,000 CFM SHALL SHUT-DOWN AND THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION. (LOCAL FIRE CONTROL CENTER).
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF THE FAN SHUT-DOWN UNITS AND OTHER RELATED DEVICES.
11. BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS. OPERATION WITH A 15 MINUTE ALARM AT THE END OF 24 HRS.
12. NEW FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 70E, 72, BCNYS, FONYSS, AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
13. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
14. PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
15. ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
16. FIRE ALARM PANEL SHALL BE PROVIDED WITH A REMOTE DIALER WITH (2) DIRECT CONNECTIONS TO THE LOCAL FIRE CONTROL CENTER.
17. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A KNOX BOX AT THE ENTRANCE TO THE BUILDING NEAREST THE FIRE ALARM PANEL WITH SIGNAGE ON THE DOOR TO THE FIRE ALARM CONTROL PANEL ROOM. COORDINATE ALL REQUIREMENTS WITH LOCAL FIRE AND BUILDING DEPARTMENT OFFICIALS.
18. FIRE ALARM CONTRACTOR SHALL INTERCONNECT CO DETECTORS WITH THE NEW FIRE ALARM SYSTEM FOR PRIMARY POWER AND BATTERY BACKUP. CO ALARM SHALL ANNUNCIATE AS A SUPERVISORY CONDITION.
19. ALL AIR HANDLING SYSTEMS RATED 2,000 CFM OR MORE SHALL BE PROVIDED WITH DUCT SMOKE DETECTORS FAN SHUTDOWNS CONNECTED TO THE FIRE ALARM SYSTEM.

POWER SYMBOLS

Table listing electrical symbols and their descriptions: SPEC GRADE NEMA 5-20R RECEPTACLE, SPEC GRADE NEMA 5-20R RECEPTACLE MOUNT AT 44" AFF OR 6" ABOVE COUNTER, ION, 2P, 3 WIRE, 250V GROUNDING NEMA 6-30R RECEPTACLE, 1P, 3 WIRE, 125V QUAD RECEPTACLE, 3P, 4 WIRE, 208V GROUNDING NEMA 18-20R RECEPTACLE, SPECIAL PURPOSE CONNECTION, JUNCTION BOX, SIZE PER N.E.C., 3P, NON-FUSED DISCONNECT SWITCH, 3P, FUSED DISCONNECT SWITCH, PULL BOX, 480Y/277V, 3ø, 4W PANEL BOARD, 208Y/120V, 3ø, 4W PANEL BOARD, DOUBLE HOME RUN, TRIPLE HOME RUN, GROUND, TRANSFORMER, KEY PAD, TRANSFORMER (SIZE SHOWN ON PLAN OR ONE-LINE DIAGRAM), CIRCUIT BREAKER - 100A TRIP - SINGLE POLE, FUSE SWITCH - 100A FUSE - 3 POLE, MOTOR, ELECTRIC METER, DOORBELL BUTTON, DOORBELL CHIME, CLOCK HANGER RECEPTACLE.

LIGHTING SYMBOLS

Table listing lighting symbols and their descriptions: CEILING MOUNTED OCCUPANCY SENSOR, EXIT LIGHT (SEE SCHEDULE), 1P, 20A, TOGGLE SWITCH, 1P, 20A, KEYED TOGGLE SWITCH, 1P, 20A, 3-WAY TOGGLE SWITCH, 1P, 20A, DIMMER SWITCH, 1P, 20A, TOGGLE SWITCH WITH PILOT LIGHT, 1P, 20A, TOGGLE SWITCH WITH BUILT-IN LIGHT, 1P, 20A, TOGGLE SWITCH WITH BUILT-IN VACANCY SENSOR, SAME AS ABOVE EXCEPT WIRED FOR DUAL LIGHTING, EMERGENCY WALL PACK FIXTURE, EMERGENCY WALL PACK FIXTURE WITH EXIT SIGN, REMOTE HEAD SUITABLE FOR OUTDOOR USE, FLOODLIGHT, LIGHTING RAY.

ABBREVIATIONS

Table listing abbreviations and their meanings: AMPERE, ACOUSTIC CEILING TILE, AUTOMATIC DAMPER, AMPERE FRAME, ABOVE FINISHED FLOOR, AMPERE INTERRUPTING CAPACITY, ALUMINUM, AUTOMATIC TRANSFER SWITCH, AUTOMATIC, AMERICAN WIRE GAUGE, BARE COPPER WIRE, CONDUIT, CATALOG, CIRCUIT BREAKER, CIRCUIT, CEILING, CURRENT TRANSFORMER, COPPER, DISTRIBUTION PANEL, DRINKING FOUNTAIN, DIVISION, DISCONNECT (LOCKOUT) SWITCH, DRAWING, EACH, ELECTRICAL CONTRACTOR, ELEVATOR, EMERGENCY POWER OFF EQUIP., ELECTRICAL METALLIC TUBING, FIRE ALARM, FIRE ALARM PANEL, FLOOR, FLEXIBLE, FEET OR FOOT, FLUORESCENT, FURNISHED WITH EQUIPMENT, GROUND, GENERATOR, GROUND FAULT INTERRUPTER, GENERAL CONTRACTOR, HAND HOLE, HORSEPOWER, HAND SWITCH, HEATING, VENTILATING & AIR CONDITIONING, HERTZ, INTERRUPTING CAPACITY, ISOLATED GROUND, INTERMEDIATE METAL CONDUIT, JUNCTION BOX, THOUSAND CIRCULAR MILS, KILO VOLT, KILO VOLT AMP, KILO WATT, LIGHT-EMITTING DIODE, LIGHTING PANEL, LIGHTING, MECHANICAL CONTRACTOR, MAIN CIRCUIT BREAKER, MECHANICAL, MAIN DISTRIBUTION PANEL, MAIN LUGS ONLY, MOUNTED, MOUNTING, MANUAL TRANSFER SWITCH, NEUTRAL, NOT IN CONTRACT, NATIONAL ELECTRIC CODE, NOT TO SCALE, NON-METALLIC CONDUIT, POLE, PULL BOX, PHASE, POWER, RECEPTACLE, REQUIRED, RIGID GALVANIZED STEEL, ROOM, SCHEDULE, SECTION, SPECIFICATION, SPEAKER, SOLENOID VALVE, SWITCH BOARD, SYSTEM, TELEPHONE, TIME CLOCK, TYPICAL, UNLESS NOTED OTHERWISE, UN-INTERRUPTIBLE POWER SUPPLY, VARIABLE FREQUENCY CONTROLLER, VERIFY IN FIELD, VARIABLE SPEED DRIVE, WEATHER PROOF, WATT, TRANSFORMER.

ELECTRICAL LINE TYPES

Table showing electrical line types: Dashed line for EXISTING TO BE REMOVED, Solid line for EXISTING TO REMAIN, Solid line with dots for NEW DEVICE, Solid line with dashes for NEW WIRING, Solid line with circles for NEW FIXTURE.

GENERAL SYMBOLS

Table showing general symbols: Circle with dot for POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK, Diamond with dot for POINT OF DISCONNECT, Circle with X for INDICATES SECTION LETTER, Circle with XX for INDICATES DRAWING NUMBER WHERE LOCATED.

COMMUNICATION SYMBOLS

Table showing communication symbols: Telephone outlet, Combination telephone/data outlet, Telephone wall outlet, Data outlet, TV outlet.

FIRE ALARM SYMBOLS

Table showing fire alarm symbols: Fire alarm pull station, Smoke detector, Fire alarm horn/w/strobe, Heat detector, Duct smoke detector, Carbon monoxide detector.



NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK OF LOCATING.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW. FELLENER ENGINEERING, LLP CERTIFICATE OF AUTHORIZATION #: 0017795

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NOTES: IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. © JOSEPH G THOMPSON ARCHITECT, PLLC. ALL RIGHTS RESERVED.



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Date: September 17, 2024

Revisions:

E0.01