GENERAL ELECTRICAL NOTES:

- BRING ALL EXISTING PANEL DIRECTORIES UP TO DATE FOR ALL CIRCUITS, INCLUDING SPARES. PROVIDE NEW TYPEWRITTEN PANEL
- 2. ALL CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE IN EXISTING OR NEW CONSTRUCTION, LAY-IN ACCESSIBLE CEILINGS, ETC. PERMIT. USE SURFACE MOUNTED STEEL RACEWAY WHERE CONDUIT MUST BE EXPOSED.
- 3. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL APPLICABLE TRADES.
- 4. BRANCH CIRCUIT WIRING IN EXCESS OF 75 FEET FOR 120V CIRCUITS SHALL BE #10 FROM PANEL TO MIDPOINT OUTLET OF THE CIRCUITS.
- 5. PROVIDE COVERPLATES FOR ALL JUNCTION BOXES, USED AND UNUSED, NEW OR EXISTING, FOR THIS WORK.
- 6. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL EQUIPMENT OR CONNECTION WITHIN FIVE FEET FROM THAT SHOWN ON THE DRAWINGS AT NO EXTRA COST TO THE OWNER.
- 7. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- 8. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL APPLICABLE TRADES AND EXISTING CONDITIONS PRIOR TO INSTALLING
- CONDUITS, PANELS, SURFACE MOUNTED STEEL RACEWAY, WIRING DEVICES, JUNCTION BOXES, ETC. 9. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED AND CONDUITS
- SHALL BE ROUTED ACCORDINGLY. 10. THIS CONTRACTOR SHALL VISIT PROJECT SITE TO VERIFY ACTUAL SCOPE OF WORK PRIOR TO SUBMITTING HIS/HER BID
- 11. PERFORM ALL CUTTING, CORING, AND PATCHING REQUIRED TO COMPLETE THE WORK, PERFORM ALL DEMOLITION AND REMOVAL OF DEBRIS RESULTING THEREFROM AND REQUIRED TO COMPLETE THE WORK. PATCH AND PAINT EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND TEXTURE USING EXPERIENCED INSTALLERS. RESTORE TO ORIGINAL CONDITION AFTER INSTALLATION.
- 12. ALL MEASUREMENTS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THIS CONTRACTOR.
- 13. THIN WALL FITTINGS SHALL BE OF THE COMPRESSION TYPE. THE USE OF CRIMPING TYPE FITTINGS SHALL NOT BE ACCEPTABLE
- 14. THE LOCATION OF ALL FIXTURES AND DEVICES ARE SHOWN DIAGRAMMATICALLY. THE EXACT LOCATION SHALL BE DETERMINED BY ACTUAL FIELD CONDITIONS. IF CONFLICT OCCURS WITH THE PLACEMENT OF FIXTURES AND DEVICES SHOWN ON DRAWINGS AND EXISTING STRUCTURES AND APPURTENANCES, CONTRACTOR SHALL COORDINATE WITH DESIGN ENGINEER BEFORE FINAL INSTALLATION. CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.
- 15. THE CONTRACTOR SHALL FURNISH, INSTALL, AND PERFORM ALL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. AFTER EACH WORK DAY, CONTRACTOR SHALL CLEAN ALL WORK AREAS AND REMOVE ALL DEBRIS.
- 16. BUILDING SYSTEMS OPERATIONS AND UTILITY SERVICES SHALL CONTINUE IN SERVICE WITHOUT INTERRUPTION. ANY MANDATORY INTERRUPTION OF ANY SERVICE OR UTILITIES SHALL BE ARRANGED WITH THE BUILDING ENGINEER. CONTRACTOR SHALL INFORM THE BUILDING ENGINEER 10 DAYS IN ADVANCE PRIOR TO ANY BUILDINGS SERVICE INTERRUPTION. ANY ADDITIONAL EXPENSE RESULTING FROM TEMPORARY SERVICE INTERRUPTIONS SHALL BE PAID BY THE CONTRACTOR.
- 17. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT, PAINTING, AND REFINISHING OF EXISTING BUILDING MATERIALS, AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WORK AND/OR DEMOLITION IN ALL AREAS INTERIOR AND EXTERIOR OF THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHOSE SPECIFIC WORK IS INVOLVED. ALL PATCHING, REPAIRING, REPLACEMENT, PAINTING, REFINISHING, AND CAULKING SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
- 18. ALL ELECTRICAL WORK SUPPLIED BY THE CONTRACTOR SHALL BE IN COMPLIANCE WITH THE CHICAGO ELECTRICAL CODE AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAWING SUBMITTALS TO THE ELECTRICAL INSPECTIONAL SERVICES IN COMPLIANCE WITH CHICAGO ELECTRICAL CODE
- 19. FURNISH AND INSTALL ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND APPURTENANCES FOR A COMPLETE ELECTRICAL SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED, INSTALLED, OR WIRED ON THE ELECTRICAL DRAWINGS, THIS CONTRACTOR SHALL BE RESPONSIBLE COMPLETELY FOR A COMPLETE AND OPERATING SYSTEM
- 20. LOCATION OF ITEMS NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY AND EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS SHALL BE DETERMINED AT THE SITE AND SHALL BE SUBJECT TO REVIEW.
- 21. ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK. THE CONTRACTOR SHALL SUBMIT A VOLTAGE COORDINATION FORM TO ALL PARTIES FURNISHING EQUIPMENT FOR VERIFICATION.
- 22. DO NOT SCALE FROM THESE DRAWINGS.
- 23. ALL 120V RECEPTACLES SHALL BE OF THE GROUNDING TYPE AND BE IN COMPLIANCE WITH THE APPLICABLE BUILDING CODE.
- 24. DISCONNECT, RELOCATE, OR REMOVE ELECTRICAL EQUIPMENT AS INDICATED ON DRAWINGS AND AS REQUIRED BY CHANGES IN CONSTRUCTION.
- 25. PENETRATIONS OF FIRE RATED WALL AND FLOOR ASSEMBLIES SHALL BE PROTECTED WITH AN APPROVED THROUGH-PENETRATION SYSTEM AND SHALL BE A TESTED ASSEMBLY IN ACCORDANCE WITH ASTM E119. ALL CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE FIRE SEALED. SEALANT RATING SHALL MEET OR EXCEED THE FIRE RATING OF FLOOR AND WALL
- 26. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
- 27. THIS CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THIS CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA, IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT.
- 28. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS AND ELEVATIONS.
- 29. ALL EQUIPMENT AND MATERIALS IN PLENUM CEILINGS AND PLENUM SPACES SHALL BE APPROVED FOR THE PURPOSE BY THE APPLICABLE CODE AUTHORITY.
- 30. WHERE NEW CIRCUIT BREAKERS ARE INSTALLED IN EXISTING PANELS, CONTRACTOR TO USE BREAKERS THAT ARE COMPATIBLE
- WITH PANELS THEY ARE TO BE INSTALLED IN. 31. WALL PLATES FOR ELECTRICAL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE PLUMB AND LEVEL. ALL COVERPLATES
- AND DEVICES IN APARTMENT DWELLINGS SHALL BE WHITE COLOR EXCEPT AS NOTED OTHERWISE (VERIFY WITH ARCHITECT).
- 32. ALL AUDIO/VISUAL (A/V) FIRE ALARM DEVICES SHALL BE SYNCHRONIZED AND SHALL BE COMPATIBLE WITH EXISTING BASE BUILDING FIRE ALARM SYSTEM.
- 33. EXIT DIRECTIONAL SIGNS EXIT SIGNS SHALL BE WIRED TO SEPARATE AND INDEPENDENT DEDICATED CIRCUITS (Ø,N) #10 WIRE. INSTALLED IN A SEPARATE CONDUIT SYSTEM. CONNECT TO EXISTING BUILDING EMERGENCY PANEL. ALL EXIT SIGNS SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET BOX.
- 34. EMERGENCY LIGHTING. PROVIDE #10 WIRE. PROVIDE A SEPARATE CONDUIT SYSTEM. CONNECT TO EXISTING BUILDING EMERGENCY
- 35. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUITS IN EXISTING PANEL LP-E SERVING THOSE AREAS. PROVIDE ALL NEW CONDUIT AND WIRING. VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- 36. CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION WHERE REQUIRED BASED ON CODE REQUIREMENTS PROXIMITY OF EQUIPMENT TO WATER, AND MANUFACTURER'S REQUIREMENTS.
- 37. PROVIDE CODE REQUIRED CITY OF CHICAGO "USER SWITCHES" FOR ALL ELECTRIC HEATING EQUIPMENT.
- 38. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL WIRING FOR MOTORIZED SLIDING DOOR INCLUDING ALL FINAL
- CONNECTIONS, COMPLETE IN PLACE, READY FOR OPERATION. MOTORIZED SLIDING DOOR SHALL BE WIRED IN CONFORMANCE TO THE APPLICABLE CODE IN ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAMS AND INSTRUCTIONS. VERIFY EXACT OF MOTORIZED SLIDING DOOR OPERATOR PRIOR TO ROUGH-IN. WIRE DOOR LIMIT SWITCHES.
- 39. PROVIDE ELECTRICAL CONNECTIONS TO AUTOMATIC POWER DOOR. VERIFY OVERCURRENT PROTECTION AND BRANCH CIRCUIT REQUIREMENTS WITH SYSTEM SUPPLIER, AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 40. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, CONTROLS, AND SERVICES FOR ROOF DRAINS HEAT TRACING SYSTEM COMPLETE IN PLACE READY FOR OPERATION.
- 41. PROVIDE ELECTRICAL CONNECTIONS TO FIREPLACE. PROVIDE SERVICE DISCONNECT SWITCH AS REQUIRED AND MAKE ALL FINAL

EXISTING CONDITION NOTES:

- VERIFY EXISTING CONDITIONS AND LOCATIONS OF FIXTURES, DEVICES, ETC. IN FIELD PRIOR TO SUBMITTING BID PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK UNDER THIS CONTRACT.
- MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
- DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO: LIGHTING FIXTURES, WIRING DEVICES, CONDUIT AND WIRES, AND ALL OTHER ELECTRICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE LEGALLY OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
- D4. DISCONNECT, REMOVE, AND REINSTALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, WIRING DEVICES, JUNCTION BOXES, AND ALL OTHER ELECTRICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY. THESE ALTERATIONS AND ADDITIONS. PERMANENTLY REINSTALL SUCH ITEMS. PROVIDE NEW OUTLETS, CONDUITS, WIREMOLD, WIRING, ETC., AS REQUIRED TO EXTEND SERVICE TO NEW LOCATIONS. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW OR EXISTING LOCATIONS AS REQUIRED.
- D5. ANY EQUIPMENT THAT IS TO BE REINSTALLED AND RECONNECTED SHALL BE CAREFULLY EXAMINED FOR ANY DEFECTS AND TESTED FOR ELECTRICAL CONTINUITY AND PROPER OPERATION PRIOR TO REMOVAL. ANY DEFECTS OR MALFUNCTIONS DETECTED SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER. AFTER EQUIPMENT HAS BEEN CERTIFIED TO BE IN GOOD ELECTRICAL/MECHANICAL CONDITION, THE EQUIPMENT MAY BE REMOVED, BOXED, STORED AND PROTECTED BY THE CONTRACTOR. CONTRACTOR SHALL BEAR ALL EXPENSES FOR ANY EQUIPMENT REINSTALLED THAT IS NOT OPERATING PROPERLY. CONTRACTOR SHALL REPLACE WITH NEW EQUIPMENT OR PROPERLY REPAIR ANY DAMAGED OR NON-WORKING EQUIPMENT TO THE SATISFACTION OF THE OWNER.
- WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, THIS CONTRACTOR SHALL:
- A. PULL OUT ALL WIRE AND CABLE.
- B. CUT CONDUIT OFF AT SLAB OR WALL LINE. C. BLANK-UP ALL OBSOLETE CONDUIT ENTRIES INTO EXISTING JUNCTION BOXES, PANELBOARD, PULL BOXES, ETC. D. CAP CONDUIT AND PATCH SURFACE TO MATCH EXISTING.
- D7. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION/REMOVAL WORK REQUIRED.
- D8. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING ELECTRICAL EQUIPMENT IN AREAS OF THE EXISTING BUILDING NOT BEING ALTERED IS INTERFERED WITH, THIS CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH CIRCUITS OR CONDUITS.
- D9. REMOVE ALL WIRING BACK TO OVERCURRENT DEVICES FOR RECEPTACLES, MOTORS, AND WIRING DEVICES WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS.
- D10. COORDINATE ELECTRICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
- D11. REMOVE ALL CONDUITS INCLUDING ALL CONDUITS ABOVE THE CEILING, IN DEMOLISHED WALL PARTITIONS, ALL EXPOSED CONDUITS AND ASSOCIATED HANGERS AND MISCELLANEOUS AND INCIDENTAL HARDWARE WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS.
- D12. WALL RECEPTACLES. REMOVE RECEPTACLES, BACKBOXES, COVERPLATES, WIRING, CONDUITS. WHERE CONTINUITY OF THE CIRCUIT IS INTERRUPTED BY RECEPTACLE REMOVAL, REWIRE EXISTING RECEPTACLES TO REMAIN TO THE NEAREST ACTIVE RECEPTACLE. MAKE ALL FINAL CONNECTIONS.
- D13. LIGHT FIXTURES. REMOVE LIGHT FIXTURES, LAMPS, SUPPORTS, JUNCTION BOXES, CONDUITS AND WIRING. WHERE PARTIAL LIGHTING IS REMOVED, REWIRE EXISTING LIGHTING TO REMAIN TO THE EXISTING CIRCUIT OR OVERCURRENT DEVICE.
- D14. HVAC MOTORS. REMOVE EXISTING MOTORS, MOTOR STARTERS, PUSH BUTTONS, DISCONNECT SWITCHES, CONDUITS, WIRING, FITTINGS, AND BOXES. REMOVE ALL WIRING BACK TO OVERCURRENT DEVICES.
- D15. LIGHTING FIXTURES, SWITCHES, RECEPTACLES, MISCELLANEOUS DEVICES, AND MISCELLANEOUS WIRING DEVICES TO BE REMOVED ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE FOR THE
 - A. REMOVE ALL EXISTING LIGHT FIXTURES WHERE NEW LIGHTING IS SHOWN AND SPECIFIED.
- MAINTAIN CONTINUITY OF ALL EXISTING LIGHTING FIXTURES TO REMAIN. B. REMOVE ALL EXISTING WIRING DEVICES IN EXISTING WALL PARTITIONS SHOWN TO BE REMOVED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION OF PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF EXISTING WIRING DEVICES TO REMAIN.
- D16. CAREFULLY REMOVE AND REINSTALL EXISTING CEILING OR WALL MOUNTED EQUIPMENT AS REQUIRED FOR INSTALLATION OF NEW WORK, INCLUDING DISCONNECTING, REMOVAL, REINSTALLATION AND RECONNECTING OF EXISTING CEILING OR WALL MOUNTED DEVICES.

C. REMOVE ALL UNUSED WIRING BACK TO OVERCURRENT DEVICE.

- D17. ALL EXISTING CONDUIT AND WIRE INTERFERING WITH THE NEW WORK SHALL BE REROUTED AND CONCEALED IN THE NEW CONSTRUCTION WHERE POSSIBLE.
- D18. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CLEANUP THROUGHOUT THE COURSE OF THE DEMOLITION WORK.
- D19. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN ON THIS DRAWING: HOWEVER. REQUIRED TO BE REMOVED AND/OR RELOCATED BY DEMOLITION, SHALL BE INCLUDED BY THIS CONTRACTOR IN BID PROPOSAL.
- D20. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR DISCONNECTION AND REMOVAL OF ALL RELATED ELECTRICAL EQUIPMENT AND SERVICES INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- A) REMOVE ALL WIRING BACK TO OVERCURRENT DEVICES.
- REMOVE ALL CONDUITS, HANGERS, BOXES, ANCHORS, CHANNELS, ETC. FOR A COMPLETE
- REMOVAL. C) REMOVE DISCONNECT MEANS.

FOLLOWING

D) DISCONNECT MOTORS FROM SUPPLY SOURCE.

OCCUPANCY AND AUTOMATIC LIGHT LEVEL SENSOR NOTES:

- OS-1. THE DELAYED-OFF TIME FOR ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE SET AT 15-20 MINUTES AFTER THE LAST MOTION IS SENSED.
- OS-2. PROVIDE ALL OCCUPANCY SENSORS WITH APPROPRIATE POWER PACKS AND/OR SLAVE PACKS.
- OS-3. ALL OCCUPANCY SENSORS SHALL BE INSTALLED AS PER MANUFACTURER'S WIRING DIAGRAMS, RECOMMENDATIONS, AND ALL APPLICABLE CODES.
- OS-4. ALL OCCUPANCY SENSORS SHALL BE LOCATED AT LEAST 6 FEET FROM AIR SUPPLY/RETURN
- OS-5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS AND MANUFACTURERS RECOMMENDED PLACEMENT, FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- OS-6. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER
 - A. PROVIDE LEVITON OCCUPANCY SENSOR POWER PACK #OSP20-ODO AS REQUIRED.

B. PROVIDE ONE POWER PACK FOR EACH CIRCUIT THAT IS TO BE CONTROLLED.

- C. A MAXIMUM OF THREE SENSORS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK DEPENDING ON THE TYPE OF SENSOR.
- D. ALL POWER PACKS SHALL BE INSTALLED IN A JUNCTION BOX.
- OS-7. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES REQUIRED TO INSTALL A COMPLETE AND OPERATING OCCUPANCY SENSOR TO CONTROL LIGHTING SYSTEM. THIS WORK SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO WIRING, CONDUIT, JUNCTION BOXES, BRACKETS, AND HARDWARE COMPLETE WITH ALL ACCESSORIES AND INCIDENTALS AND ALL FINAL CONNECTIONS FOR A COMPLETE INSTALLATION READY FOR OPERATION.
- OS-8. ALL OCCUPANCY SENSORS SHALL BE MOUNTED ON A VIBRATION FREE SURFACE.
- OS-9. OCCUPANCY SENSOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S WIRING DIAGRAMS, MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE
- OS-10. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTING OF ALL OCCUPANCY SENSORS.
- OS-11. DO NOT MOUNT SENSORS CLOSER THAN 10 FEET FROM EACH OTHER.
- OS-12. ALL OCCUPANCY SENSORS SHALL BE MOUNTED A MINIMUM 3 FEET AWAY FROM ALL SUSPENDED FLUORESCENT LIGHT FIXTURES.
- OS-13. ALL OCCUPANCY SENSORS SHALL BE MOUNTED A MINIMUM 2 FEET AWAY FROM ALL RECESSED FLUORESCENT LIGHT FIXTURES.
- OS-14. IN ROOMS WHERE MULTIPLE SENSORS ARE SHOWN, ALL LIGHTING FIXTURES IN THE ROOM SHALL BE TURNED ON, UNLESS OTHERWISE NOTED.
- 0S-15. ALL OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY PASSIVE INFRARED/ULTRASONIC FREQUENCY GREATER THAN 40KHZ, DUAL SENSING VERIFICATIONS (REQUIRES BOTH TECHNOLOGIES TO ACTIVATE), EITHER TECHNOLOGY MAINTAINS ON STATUS, INTEGRATED AMBIENT LIGHT LEVEL SENSOR (2-200FC RANGE), ADJUSTABLE SENSITIVITY AND TIME DELAY, 5-YEAR WARRANTY. SENSOR SHALL CONTROL ALL CIRCUITS IN AREA, UNLESS NOTED OTHERWISE. INITIAL SETTINGS 10 MINUTES, AMBIENT SENSOR 40FC. CONTRACTOR SHALL SUBMIT MANUFACTURER SUPPLIED SENSOR COVERAGE DRAWING FOR SHOP DRAWING REVIEW.

MANUFACTURER AND

CATALOG NUMBER

RECESSED LED DOWNLIGHT (3" DIAMETER)

3HE60120NCMCHW

RECESSED LED DOWNLIGHT (3" DIAMETER)

3HF60120NCMCHW

RECESSED LED WALLWASHER (3" DIAMETER)

3HF60120NCMCHV

EATON #24SR-LD2-39-C-UNV-L835-CDI-U

- Eaton #22SR-LD2-39-C-UNV-L835<u>-CDI-U</u>

CORONET #LOOP-LED-3-35-LTG1-UNV-DB-W-AC

PENDANT LED (46" x 1.75" x 2.87")

ARTEMIDE #LEDBAR 48 RDLBC4SB83508A

PENDANT LED (92.5" x 1.75" x 2.87")

ARTEMIDE #LEDBAR 96 RDLBC8SB83508A

3M #VESSEL VSL-PD-LG-27-BK-WH-120

ARTEMIDE #LINEAFLAT USC-RDLF-2-B-8-35-08-W

1' x 4' LED SURFACE MOUNT (48" x 7 5/8")

1' x 2' LED SURFACE MOUNT (24" x 7 5/8")

SAME AS TYPE M FIXTURE EXCEPT 24" LONG

4WNLED-LD4-40SL-F-UNV-L855-CDI-U

RECESSED LED DOWNLIGHT (6" DIAMETER)

ZANIBONI #D6-LUNA6-18-35-A-3-C-WS

DECORATIVE LED PENDANT (88" x 59")

USC-M119-2-2-8-H-00-LB-TV

CHICAGO APPROVED SURFACE MOUNTED EMERGENCY

EDGE GLOW TYPE LED EXIT DIRECTIONAL SIGN WITH

INTEGRAL BATTERY. CITY OF CHICAGO APPROVED -

LIGHT WITH BATTERY BATTERY BACK-UP

CHLORIDE CMF36-CHY-2-ADTD

RATED 1 1/2 HOUR ILLUMINATION.

LSI RCEL SERIES RCEL-L-W-LB-120 SINGLE OR DOUBLE FACE AS REQUIRED

EXTERIOR LED UPLIGHT @ ENTRY

LED INDIRECT STRIP LIGHT COVE

LED INDIRECT STRIP LIGHT COVE

PENDANT LED (12" LARGE)

LED WALL SCONCE (24"

EATON #METALUX

Z-0-00-B-W

ARTEMIDE #KAO KIT B

PENDANT LED FIXTURE

ALPHABET #NU3RDXTM1920LM35K

ALPHABET #NU3RDXTM1920LM35K

ALPHABET #NU3RWXTM1920LM35K

2' x 4' RECESSED LED

2' x 2' RECESSED LED

PENDANT LED (35.5 x 3.9)

TRACK LIGHTING

SYMBOL &

NOT USED

LIGHTING FIXTURE SCHEDULE

120V

VOLTAGE | LOCATION | MOUNTING

SEE

PLANS

PLANS

SEE

PLANS

SEE

PLANS

SEE

PLANS

SEE

SEE

PLANS

SEE

PLANS

PLANS

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PLANS

PLANS

PLANS

PLANS

SEE

PLANS

SEE | CEILING, WALL, |

PLANS OR END MOUNT WHITE LENS

AS REQUIRED

LED LAMPS | 120V | SEE | RECESSED | NONE | 120 VOLT LED DRIVER

RECESSED

RECESSED

SURFACE

PENDANT

PENDANT

WALL MOUNTED

SURFACE

RECESSED

WALL MOUNTED | STEEL HOUSING

WITH

METAL HEADS

SHIELDING

NONE

RECESSED 0.125" ACRYLIC 120 VOLT LED DRIVER

WATTAGE

(3500°K)

(3500°K)

LED LAMPS

(3500°K)

(3500°K)

(3500°K)

LED LAMPS

(3500°K)

LED LAMPS

(3500°K)

LED LAMPS

(3500°K)

LED LAMPS

(2700°K)

(3500°K)

LED LAMPS

(3500°K)

LED LAMPS

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LED LAMPS

(3500°K)

(3500°K)

LED LAMPS

(3500°K)

(3500°K)

LED LAMPS

(3500°K)

(3500°K)

(2) 5 WATT

LAMPS

LED LAMPS | 120V

600V AC ABOVE FINISHED FLOOR ARCH. ARCHITECT OR ARCHITECTURA AUTOMATIC TRANSFER SWITCH STEEL CONDUIT CIRCUIT BREAKER CIRCUIT CEILING CONDUCTOR DISC. DISCONNECT FXISTING ELECTRICAL CONTRACTOR ELECTRIC EMER. **EMERGENCY** EQUIP. EQUIPMENT ELECTRIC WATER COOLER EACH WITH FIRE ALARM FIRE ALARM CONTROL PANEL FAN COIL UNIT FIXTURE FLUOR. FLUORESCENT G, GRD GROUND GROUND FAULT INTERRUPTER GROUND FAULT PROTECTION HANDICAPPED HEAVY DUTY MOTOR CIRCUIT PROTECTOR HAND-OFF-AUTO HORSEPOWER HIGH VOLTAGE INCAND. **INCANDESCENT** JUNCTION BOX LIGHTS LIGHTING LOW VOLTAGE MAIN CIRCUIT BREAKER MAIN LUGS ONLY MTD. MOUNTED MTG. H MOUNTING HEIGHT NO., i NUMBER NEUTRAL PULL BOX POWER PANEL POWER RECP. RECEPTACLE SPECS. **SPECIFICATIONS** STATION SIGNAL SWITCH SWITCHBOARD SWBD. TRANSF. TRANSFORMER TELEPHONE TELEPHONE TERMINAL CABINI UNIT HEATER VOLTAGE WIRE GUARD **WEATHERPROOF**

REMARKS

AT ACOUSTICAL LAY-IN CEILINGS

AT ACOUSTICAL LAY-IN CEILINGS

LAY-IN @ OFFICES & COPY CONFERENCE

48" AIRCRAFT CABLE PENDANT MOUNTS

@ COMMUNITY ROOM #11 GYP. BD INSETS

WITH ELECTRIC LOW VOLTAGE DIMMER,

120 VOLT LED DRIVER

120 VOLT LED DRIVER

120 VOLT LED DRIVER

&COUPLING (WAITING #07)

120 VOLT LED DRIVER

120 VOLT LED DRIVER

120 VOLT LED DRIVER

120 VOLT LED DRIVER

LUTRON NOVA T SERIES

120 VOLT LED DRIVER

120 VOLT LED WITH

120 VOLT LED DRIVER

120 VOLT LED DRIVER

@ EXTERIOR CANOPY

120 VOLT LED DRIVER

@ EXTERIOR CANOPY

120 VOLT LED DRIVER

120 VOLT LED DRIVER

@ ENTRY & MAIN LOBBY

120 VOLT LED DRIVER

120 VOLT LED DRIVER

90 MINUTE BATTERY.

2 HEAD SELF-CONTAINED UNIT BATTERY

DIAGNOSTICS, WITH OPTIONAL 15 MINUTE

LIGHTING EQUIPMENT LAMP & BATTERY

DELAY AFTER POWER RESTORATION.

120 VOLT. EXACT WORDING, ARROWS

BY LOCAL CODE AUTHORITY.

SINGLE OR DOUBLE FACE AS APPROVED

@ HUDDLE

@ CORRIDOR, CAFE, ETC.

DIMMABLE DRIVER

@ CLOSET

@ TOILET RMS #22 & #23

@ FITNESS #13

0.125" ACRYLIC | 120 VOLT LED DRIVER

<u>LENS LAY-IN @ CORRIDORS</u>

AT GYP. BOARD CEILINGS

ELECTRICAL ABBREVIATIONS

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DUPLEX CONVENIENCE OUTLET DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER BACKSPLASH QUADRUPLEX CONVENIENCE OUTLET GFI DUPLEX RECEPTACLE 38" A.F.F. → I 30A-2P-3W-208V GROUNDING TYPE RECEPTACLE JUNCTION BOX MOTOR CONNECTION H.P. AS NOTED ON PLAN NON-FUSED DISCONNECT SWITCH | FUSED DISCONNECT SWITCH 48" A.F.F. | SINGLE POLE MANUAL MOTOR STARTER (TYPE T-T) 48" A.F.F. | SINGLE POLE MANUAL MOTOR STARTER & PILOT LIGHT (TYPE T-T) MAGNETIC MOTOR STARTER POWER PANEL (DISTRIBUTION PANEL) <u>ELECTRICAL PANEL (LIGHTING AND POWER)</u> TELEPHONE PANEL MOUNTED ON PLYWOOD BACKBOARD INDICATES FIXTURE ON EMERGENCY LIGHTING SYSTEM. FIXTURES TO CONTAIN INTEGRAL BATTERY PACK – BODINE #B50. DENOTES WEATHERPROOF EQUIPMENT CONDUIT RUN CONCEALED IN WALL OR CEILING CONDUIT RUN EXPOSED THERMOSTAT TELEPHONE OUTLET 15" A.F.F. DATA OUTLET 15" A.F.F. TELEPHONE/DATA OUTLET 15" A.F.F. 44" A.F.F. | WALL MOUNTED TELEPHONE OUTLET W 🖊 TV OUTLET \rightarrow \mathbb{N} 15" A.F.F. IMPLIES GROUND FAULT INDICATING DEVICE OR BREAKER SPECIAL OUTLET (VERIFY NEMA CONFIGURATIONS) ₩ DW | JUNCTION BOX AND DISCONNECT FOR POWER FOR DISHWASHER. CONDUIT RUN CONCEALED IN FLOOR SLAB OR BELOW GRADE AS INDICATED. GREEN GROUND WIRE CONDUCTOR ADA VISUAL FIRE ALARM DEVICE ADA HT. ADA HT. ADA AUDIO/VISUAL FIRE ALARM DEVICE MANUAL FIRE ALARM PULL STATION ADA HT. FCP FIRE COMMAND PANEL SPEAKER (SOUND SYSTEM) VOLUME CONTROL (SOUND SYSTEM) MOTORIZED HANDICAP DOOR PUSH PLATE ELECTRIC DOOR STRIKE CARD READER - PROVIDE 4" SQUARE EXTRA DEEP RECESSED BACKBOX WITH VERTICAL SINGLE GANG PLASTER RING. PROVIDE 3/4" CONDUIT FROM BACKBOX STUBBED UP TO A ARCHITECT POINT ABOVE ACCESSIBLE CEILING. PROVIDE BLANK COVERPLATE. LOCATE BACKBOX ABOVE DOOR FRAME ON DOOR HANDLE SIDE. ELECTRIC WATER COOLER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR I INDICATES OUTLET OR DEVICE ON DEDICATED CIRCUIT UNDERWRITERS LABORATORY TESTED AND APPROVED MULTI-TECHNOLOGY CEILING-MOUNTED OCCUPANCY SENSOR - LEVITON #0SC20-MOW OR EQUIVALENT AS DETERMINED BY ENGINEER. REFER TO OCCUPANCY SENSOR NOTES ON THIS DRAWING. PROVIDE ALL ASSOCIATED EQUIPMENT AS REQUIRED. (2000 SQUARE FEET) OCCUPANCY SENSOR WITH OVERRIDE SWITCH. INDICATES PANEL IDENTIFICATION:PANEL CIRCUIT NUMBER EXISTING EQUIPMENT TO REMAIN EXISTING EQUIPMENT TO BE REMOVED

ELECTRICAL SYMBOL LIST

NOT ALL SHOWN ARE APPLICABLE

MTG. HT.

44" A.F.F.

44" A.F.F.

62-041747

REGISTERED

PROFESSIONAL

ENGINEER

EXPIRES 11/30/2019

der my supervision and that they comply, to

he best of my knowledge, with all the building

odes and ordinances of the citu of Chicago.

DESCRIPTION

MOUNTING HEIGHTS ARE TO CENTERLINE OF EQUIPMENT OR DEVICE EXCEPT AS OTHERWISE INDICATED. REFER TO SPECIFICATIONS AND DRAWING FOR MORE INFORMATION.

EXISTING EQUIPMENT TO BE REMOVED, RELOCATED, REINSTALLED, REWIRED.

CIRCUIT 33d (MAIN LOBBY 02) 7 CIRCUIT 41b (COFFEE 06, WAITING 07, CORRIDOR 08) CIRCUIT 33b (MAIN LOBBY 02) CIRCUIT 31d ("N" & "O" CIRCUIT 41d (CORRIDOR 08) FIXTURES-EXTERIOR LIGHTING) CIRCUIT 31a (ENTRY LOBBY 01) — - | • | • | • | • | • | CIRCUIT 31b (ENTRY LOBBY 01) (CORRIDORS 19, 21, 26) CIRCUIT 31c (ENTRY LOBBY 01) → └ CIRCUIT 41c (WAITING 07) CIRCUIT 33a (MAIL RM. 04) - | CIRCUIT 41a (COFFEE 06, CIRCUIT 33c (ELEVATOR LOBBY 03) WAITING 07, CORRIDOR 08)

> LIGHTING CONTROL DETAIL SCALE : N T S

LIGHTING FIXTURE SCHEDULE NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT
- 2. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND MECHANICAL UNIT HEATERS.

2018 ELECTRICAL CODE

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J□B N□. 1701 DRAWN BY: -CHECKED BY: -DATE: 10-06-17

SHEET NO.