

**LEGEND:**

**LIGHTING FIXTURES:**

UPPERCASE LETTER ADJACENT TO FIXTURE DENOTES DESIGNATION PER THE LIGHTING FIXTURE SCHEDULE. LOWERCASE LETTER DENOTES SWITCH/E.G. THE RESPECTIVE SWITCH WILL HAVE THE SAME DESTINATIONS. NUMERICAL DENOTES BRANCH CIRCUIT CONNECTION.

REFER TO THE FIXTURE SCHEDULE FOR THE SPECIFIC FIXTURE INFORMATION.

EMERGENCY FIXTURES SHALL HAVE FACTORY INSTALLED INTERNAL BATTERIES, PER SPECIFICATIONS.

NON-EMERGENCY BATTERY BACKUP

- LIGHTING FIXTURE: LINEAR
- LIGHTING FIXTURE: LINEAR
- LIGHTING FIXTURE: LINEAR
- LIGHTING FIXTURE: STRIP
- LIGHTING FIXTURE: WALL MTD.
- DOWNLIGHT/SCONE FIXTURE
- EXIT AREA OF REFUGE LIGHT: UNIVERSAL MTD.
- DIRECTIONAL FIXTURES: EMERGENCY TYPE
- LIGHT TRACK: LENGTH AS SHOWN, NUMBER OF TRACK HEADS AS SHOWN ON PLANS

**DEVICE IDENTIFIER TAGS:**

NUMERICAL ADJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION. IDENTIFIER TAGS ADJACENT TO DEVICES INDICATE:

- C MOUNT ABOVE COUNTER TOP OR BACKSPLASH, 9" ABOVE WORK SURFACE TO CENTER
- XX\* MOUNT DEVICE AT HEIGHT INDICATED
- WP PROVIDE WEATHER-PROOF COVER

**RECEPTACLES:**

NOMINAL MOUNTING HEIGHT OF RECEPTACLES SHALL BE 18" TO CENTER, UNLESS OTHERWISE NOTED. ADJUST TO DEVICE COVER IS IN THE CENTER OF MASONRY COURSE NEAREST THAT HEIGHT. THE HEIGHT ESTABLISHED SHALL GOVERN FOR ALL BOX INSTALLATIONS, WHERE INSTALLED IN MASONRY OR FRAMED WALLS.

- A. DWELLING UNITS, DORM ROOMS, GUEST ROOMS AND GUEST SUITES OF HOTELS AND MOTELS.
- B. CHILD CARE FACILITIES.
- C. PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES.
- D. BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND THE LIKE IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES.
- E. SUBSETS OF ASSEMBLY OCCUPANCIES DESCRIBED IN NEC 518.2 TO INCLUDE PLACES OF WAITING TRANSPORTATION, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS.

- RECEPTACLE: SIMPLEX
- RECEPTACLE: DUPLEX
- RECEPTACLE: GROUND-FAULT-INTERRUPTING TYPE
- RECEPTACLE: QUADRUPLIX
- IN-SLAB FLOOR BOX: SEE SPECIFICATIONS
- RECEPTACLE: SPECIAL PURPOSE, COORDINATE NEMA RATING WITH SPECIFIED EQUIPMENT
- ELECTRIC WATER COOLER POWER CONNECTION, GFCI OUTLET
- HAND DRYER POWER CONNECTION: COORDINATE MOUNTING HEIGHT W/ ARCHITECTURAL ELEVATIONS SEE HAND DRYER INSTALLATION DETAIL 1E7 01.
- RECEPTACLE FOR CLOCK (RECESSED) AND CLOCK; COORDINATE MOUNTING HEIGHT & LOCATION WITH ARCHITECTURAL FLOOR PLAN AND ELEVATIONS
- RECEPTACLE: CEILING MOUNTED
- RECEPTACLE: ISOLATED GROUND DUPLEX
- IN-SLAB FLOOR BOX W/ (1) ISOLATED GROUND NEMA 5-20R

**SWITCHES:**

MOUNTING HEIGHT OF SWITCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE SAME MANNER AS SPECIFIED ABOVE. FOR RECEPTACLES, LOWERCASE LETTER INDICATES SWITCHES CONNECTION, THE RESPECTIVE FIXTURE(S) WILL HAVE THE SAME DESIGNATION.

- S SWITCH: SINGLE-POLE
- S<sub>3</sub> SWITCH: THREE-WAY TYPE
- S<sub>4</sub> SWITCH: FOUR-WAY TYPE
- S<sub>1</sub> SWITCH: SUBSCRIPT THAT INDICATES CORRESPONDING FIXTURES THAT SWITCH CONTROLS
- D SWITCH: DIMMER TYPE, DIMMER SHALL BE COMPATIBLE WITH BALLAST INSTALLED. PROVIDE ALL LOW VOLTAGE CABLING AND CONNECTIONS FOR 0 TO 10 VOLT DIMMING.
- OS OCCUPANCY SENSOR, CEILING MOUNTED
- OS OCCUPANCY SENSOR, CORNER MOUNTED
- OS OCCUPANCY SENSOR, WALL MOUNTED
- PC PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

**EXTERIOR ELECTRICAL LEGEND**

- NUF UNDERGROUND FEED
- NUS UNDERGROUND SECONDARY
- PAV PAD-MOUNTED TRANSFORMER, BY OTHER
- H HANDHOLE, FLUSH WITH FINISHED GRADE
- POLE AND SIDEARM MOUNTED LIGHTING FIXTURE
- POLE AND TOP MOUNTED FIXTURE OR BOLLARD

**ELECTRICAL EQUIPMENT:**

REFER TO ONE-LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT CUT-SHEETS AND INSTALLER.

- S<sub>M</sub> SWITCH: MOTOR RATED, WITHOUT OVERLOAD PROTECTION
- DISCONNECT SWITCH
- T DRY-TYPE TRANSFORMER
- PANELBOARD: SURFACE MOUNTED
- XX-1 EQUIPMENT AS NOTED, SEE ABBREVIATIONS, THIS SHEET
- GROUND CONNECTION

**BRANCH CIRCUITS:**

CONDUCTOR COUNTS ARE SHOWN ON THE HOMERUNS ONLY. CONTRACTOR SHALL DETERMINE COUNTS FOR INTERMEDIATE RUNS BASED ON THE MANNER IN WHICH THE CIRCUIT ELEMENTS ARE CONNECTED. REFER TO THE SPECIFICATION SECTIONS 262010, 262020, & 262030 FOR SPECIAL REQUIREMENTS.

- BRANCH CIRCUIT: CONCEALED
- BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB
- BRANCH CIRCUIT: EXPOSED

"HOMERUN" TO PANEL: NUMBER OF HASH MARKS INDICATES QUANTITY OF #12 AWG UNGROUNDED CONDUCTORS IN 3/4" RACEWAY. GROUNDED CONDUCTORS (NEUTRALS) ARE NOT SHOWN. NUMBER OF ARROWHEADS DENOTES QUANTITY OF CIRCUITS INSTALLED. ONE DEDICATED NEUTRAL IS REQUIRED FOR EACH CIRCUIT INSTALLED. SEE SPECIFICATIONS. EACH CONDUCTOR SHALL BE MIN. #12 AWG UNLESS NOTED OTHERWISE. FOR MECHANICAL EQUIPMENT, SEE MECHANICAL EQUIPMENT RATINGS AND CONNECTIONS SCHEDULE FOR ELECTRICAL CHARACTERISTICS.

**FIRE ALARM:**

- FIRE ALARM PULL STATION: WALL MOUNTED WITH OPERABLE PART OF THE DEVICE AT 42" AFF.
- FIRE ALARM SIGNAL, HORN AND FLASHING LIGHT, 80" AFF TO THE BOTTOM OF THE LINES. "C" DESIGNATION INDICATES CEILING MOUNTED.
- FIRE ALARM SIGNAL, SPEAKER AND FLASHING LIGHT, 80" AFF TO THE BOTTOM OF THE LINES. "C" DESIGNATION INDICATES CEILING MOUNTED.
- FIRE ALARM STROBE LIGHT, 80" AFF TO THE BOTTOM OF THE LENS.
- FIRE ALARM STROBE LIGHT, CEILING MOUNTED.
- FIRE ALARM SIGNAL, HORN, 90" AFF TO THE TOP OF THE DEVICE, WEATHER PROOF.
- FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
- FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC DUCT.
- FIRE ALARM HEAT DETECTOR, 135 DEG. OPERATION.
- FIRE ALARM CARBON MONOXIDE DETECTOR.
- FIRE ALARM DOOR HOLDER, WALL MOUNTED, CONSULT ARCHITECTURAL DRAWINGS TO DETERMINE TYPE REQUIRED. PROVIDE POWER FROM NEAREST RECEPTACLE CIRCUIT AND CONNECT TO FIRE ALARM SYSTEM.
- TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
- FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
- FIRE ALARM CONTROL PANEL, FLUSH RECESSED WALL MOUNTED.
- FIRE ALARM REMOTE LCD ANNUNCIATOR PANEL, FLUSH RECESSED WALL MOUNTED.
- FIRE ALARM REMOTE VOICE EVACUATION MICROPHONE, FLUSH RECESSED WALL MOUNTED.
- SMOKE DAMPER, 120V, PROVIDE POWER CONNECTION AND ALL NEEDED SMOKE DETECTION AND CONTROL MODULES AS REQUIRED BY NFPA 72 FOR PROPER OPERATION.

**INTRUSION DETECTION SYSTEM:**

COORDINATE MOUNTING HEIGHTS, DEVICE LOCATIONS & POWER/CONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER.

- INTRUSION SYSTEM: HORN, MOUNTED ON CEILING
- INTRUSION ACCESS: MOUNTED ON CEILING AT ENTRY WAY
- INTRUSION DETECTION DEVICE: WALL MTD.

**ABBREVIATIONS:**

- A AMPERES
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AH AIR HANDLER
- AIC AMPERE INTERRUPTING CAPACITY
- ATU AIR TERMINAL UNIT
- AV AUDIO/VISUAL
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISHED GRADE
- B.E. BOTTOM EDGE
- C. CONDUIT
- CU CONDENSING UNIT
- DAH DUCTLESS AIR HANDLER
- DHP DUCTLESS HEAT PUMP
- DIA. DIAMETER
- ECB ENCLOSED CIRCUIT BREAKER
- EF EXHAUST FAN
- EH ELECTRIC HEATER
- EMCS ENERGY MANAGEMENT CONTROL UNIT
- FAP FIRE ALARM ANNUNCIATOR PANEL
- FAPS FIRE ALARM POWER SUPPLY
- G GROUND
- GFI GROUND-FAULT INTERRUPTING
- HP HORSE POWER
- HRVU HEAT RECOVERY VENTILATING UNIT
- HWCP HOT WATER CIRCULATING PUMP
- KCAL KILO CALORIAL MIL
- MAH MAKEUP AIR HEATER
- MB MAIN BREAKER
- MCA MINIMUM CIRCUIT AMPS
- MIN MINIMUM
- MOCIP MAXIMUM OVERCURRENT PROTECTION
- MTD MOUNTED
- No. NUMBER
- NEC NATIONAL ELECTRIC CODE
- NTS NOT TO SCALE
- P/V POST INDICATOR VALVE
- RGS RIGID GALVANIZED STEEL
- RTU ROOFTOP UNIT
- SF SUPPLY FAN
- SPD SURGE PROTECTION DEVICE
- SWBD SWITCHBOARD
- TGB TELECOMMUNICATIONS GROUND BUS
- TMGB TELECOMMUNICATIONS MAIN GROUND BUS
- TTW THROUGH-THE-WALL HEAT PUMP
- TYP TYPICAL
- UH UNIT HEATER
- UNO UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WATTAGE
- W/ WITH
- WH WATER HEATER
- WHP WALL-MOUNTED HEAT PUMP
- WP WEATHER PROOF
- XFMR TRANSFORMER

**MISCELLANEOUS COMPONENTS:**

- JUNCTION BOX: MTD, ABOVE CEILING
- JUNCTION BOX: WALL MTD.
- SPEAKER SYSTEM:
- COORDINATE MOUNTING HEIGHTS, DEVICE LOCATIONS & POWER/CONTROL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SYSTEM INSTALLER.
- SPEAKER - SEE DRAWINGS AND SPECIFICATIONS FOR TYPE.
- INTERCOM SPEAKER: WEATHERPROOF WALL MOUNTED AT 90" AFF.
- INTERCOM SPEAKER: 2 X 2 SQUARE CEILING MOUNTED
- MICROPHONE JACK: WALL MOUNTED AT 18" AFF, UNO.
- ENHANCED STAFF PHONE: WALL MOUNTED 48" AFF.
- ADMINISTRATIVE DISPLAY PHONE: WALL MOUNT AT 48" AFF.

**ROUGH-IN FOR LOW VOLTAGE SYSTEMS:**

THE CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL DEVICES AND WIRING. ROUGH-IN REQUIREMENTS ARE SPECIFIED IN SECTION 261010. VERIFY ADJACENCY TO CORRESPONDING POWER RECEPTACLES. OTHER DEVICES WHOSE LOCATIONS ARE NOT DEPENDENT ON RECEPTACLE PLACEMENT SHALL BE COORDINATED WITH SYSTEM INSTALLER.

- WALL MTD, TELECOMMUNICATION JUNCTION BOX AND CONDUIT ROUGH-IN TO NEAREST ACCESSIBLE CEILING
- CEILING MTD, TELECOMMUNICATION JUNCTION BOX
- WALL MTD, TELECOMMUNICATION JUNCTION BOX AND CONDUIT ROUGH-IN TO NEAREST ACCESSIBLE CEILING
- CEILING MTD, TELECOMMUNICATION JUNCTION BOX AND CONDUIT ROUGH-IN TO NEAREST ACCESSIBLE CEILING
- CEILING MTD, OR WALL MTD, TELECOMMUNICATION JUNCTION BOX AND CONDUIT ROUGH-IN FOR OWNER PROVIDED CAMERAS TO NEAREST ACCESSIBLE CEILING
- AV BACK BOX SEE EPS SHEETS FOR CONDUIT SIZE, BOX SIZE AND ALL OTHER ROUGH-IN REQUIREMENTS OF AV EQUIPMENT.
- AV FLOORBOX SEE EPS SHEETS FOR CONDUIT SIZE, BOX SIZE AND ALL OTHER ROUGH-IN REQUIREMENTS OF AV EQUIPMENT.
- AV JUNCTION BOX: MTD, ABOVE CEILING. SEE EPS SHEETS FOR CONDUIT SIZE, BOX SIZE AND ALL OTHER ROUGH-IN REQUIREMENTS OF AV EQUIPMENT.

**ACCESS CONTROL SYSTEMS**

SEE DETAIL 1170.01 FOR POWER, POWER DISCONNECT, LOW VOLTAGE CABLING, BOXES AND CONDUIT REQUIREMENTS. REFER TO ARCHITECTURAL PLANS AND DOOR SCHEDULES FOR ADDITIONAL REQUIREMENTS.

**CABLING COMPONENTS:**

- CONDUIT SLEEVES: NUMBER & SIZE: (2)"-2" FOR ALL ROOMS, (1)"-2" FOR ALL UNO
- CABLE TRAY: SIZE AS NOTED, 8" W x 4" H TYP.

**GENERAL NOTES:**

- ELECTRICAL DRAWINGS ARE ONLY PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- WHEN A COMPLETE BRANCH CIRCUIT WIRING IS NOT SHOWN, PROVIDE ACCORDING TO HOMERUNS SHOWN AND CORRESPONDING CIRCUIT NUMBERS ADJACENT TO THE DEVICE OR FIXTURE. REFER TO THE SPECIFICATIONS FOR THE WIRING METHODS. BRANCH CIRCUIT RATINGS SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES.
- REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT SCHEDULES & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUITS REQUIREMENTS, BREAKER SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.
- EACH DOOR SHALL HAVE ONE 3/4" C. FROM DOOR FRAME TO DOOR CONTROLLER ENCLOSURE (ASSUME WITHIN 50" OF DOOR), ONE DEDICATED 20A, 120 VOLT CIRCUIT TO SAME CONTROLLER ENCLOSURE.

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER/SERIES	REFLECTOR/DIFFUSER	FINISH	MOUNTING	LAMPS	NOTES
B1	2"x4" RECESSED VOLUMETRIC	OWNER FURNISHED, CONTRACTOR INSTALLED	SMOOTH FROSTED ACRYLIC LENS	HOUSING AND EXPOSED PARTS - WHITE	RECESSED CEILING	4000 LUMENS, <40W	
B2						5000 LUMENS, <50W	
E1	4" LONG STANDARD STRIPS	METALUX SHIMLED SERIES COLUMBIA LCL SERIES HE WILLIAMS 75L SERIES OR PRIOR APPROVED EQUAL	FROSTED LENS	WHITE (HOUSING)	SURFACE OR SUSPENDED	5000 LUMENS, <50W	
HL1			30" CUTOFF			7500 LUMENS, <90W	
HL2	8" APERTURE LED HOUSE LIGHT	PORTFOLIO LSR8B SERIES PRESCOLITE MICROLED OR PRIOR APPROVED EQUAL		BLACK (HOUSING)	SUSPENDED	4000 LUMENS, <40W	
HL3			45" CUTOFF			4000 LUMENS, <40W	
K1	6" ROUND LED DOWN LIGHT	HALO COMMERCIAL P06 SERIES PRESCOLITE LCL08 SERIES INTENSE MILA SERIES OR PRIOR APPROVED EQUAL	OPEN SEMI-SPECULAR CLEAR AL24K CONE, MEDIUM BEAM SPREAD.	TRIM RING - WHITE	RECESSED CEILING	5000 LUMENS, <50W	
N1	ROUND DECORATIVE WALL SCIENCE	FAL-SAFE TR-15 SERIES FC LIGHTING FCW 306Z SERIES DECO D421-LED SERIES OR PRIOR APPROVED EQUAL	CLEAR POLYCARBONATE LENS, SMOOTH YIELD DESIGN, 15" DIAMETER	HOUSING AND EXPOSED PARTS - WHITE	WALL MOUNT	2000 LUMENS, <50W	
P1	30"	LED CIRCULAR PENDANT	OCL AV-1-P1AE SERIES OR PRIOR APPROVED EQUAL	GLOSS WHITE ACRYLIC HOUSING AND EXPOSED PARTS - POLISHED ALUMINUM	PENDANT	4000 LUMENS, <60W	
P2	42"					9000 LUMENS, <110W	
XA	SINGLE FACE EXIT	LIGHTGUARD T04 SERIES LITHONIA L04 SERIES BEGHELM L04 SERIES DUAL LITE C04 SERIES	RETRACTABLE MICHEL	STENCIL FACE BRUSHED ALUMINUM	UNIVERSAL	LED	
XC	SINGLE FACE EXIT EDGE MOUNT	LEONARD LRP SERIES BEGHELM L04 SERIES DUAL LITE C04 SERIES	RED LETTERS "EXIT", NICKEL CADMIUM BATTERY.	INJECTION MOLDED CLEAR ACRYLIC LENS W/ RECESSED HOUSING	CEILING OR WALL PER THE PLANS	LED	



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DATE	BY	DESCRIPTION
APRIL 5, 2018	JWR	100% SCHEMATIC DESIGN
OCT. 29, 2018	JWR	100% DESIGN DEVELOPMENT
APRIL 5, 2019	JWR	80% CONST. DOCUMENTS
MAY 17, 2019	JWR	100% CONST. DOCUMENTS

201801

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 DATE: 4/5/19 80% CONST. DOCUMENTS  
 DATE: 5/17/19 100% CONST. DOCUMENTS

100% 100% 80% 100%

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