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ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND 2011 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 DIAGRAMMATIC 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 SWINGS, 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 ½"C, 2-#12, 1-#12G MINIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. ALL HOMERUNS SHALL BE A MINIMUM ¾" CONDUIT.
16. PROVIDE A SEPARATE GREEN, INSULATED, #12AWG 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 PLENUM 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. FLUORESCENT LAMPS SHALL BE RAPID START, 32W, OR LOW MERCURY CONTENT, AND OF NOT LESS THAN 2900 LUMEN OUTPUT UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE.
23. FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH A MAXIMUM OF 10% THD AND AS MANUFACTURED BY ADVANCE, OSRAM/SYLVANIA, GE/MAGNETEK, OR MOTOROLA.
24. ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS FOR SIZES NO. 10 AND SMALLER SHALL BE TYPE "THWN" OR "THHN/THWN". CONDUCTORS FOR SIZES NO. 8 AND LARGER SHALL BE TYPE "XHHW". SOLID CONDUCTORS TERMINATING IN A BREAKER OR DEVICE SHALL BE UTILIZED FOR WIRE SIZE NO. 12. MINIMUM WIRE SIZE SHALL BE NO. 12.
25. ALL BOXES SHALL BE PRESSED STEEL, SINGLE PIECE (NON-GANGABLE) TYPE.
26. ALL COVER PLATES SHALL BE STAINLESS STEEL.
27. ALL COVER PLATES FOR DEVICES AND JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS LABELED WITH INDELIBLE INK MARKER. DEVICE COVERS SHALL BE LABELED ON THE BACK, JUNCTION BOX COVERS SHALL BE LABELED ON THE FRONT.
28. RECEPTACLES SHALL BE 120 VOLT, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROWHART, P&S, OR LEVITON. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

    SINGLE RECEPTACLE #HBL5361X
    DUPLEX RECEPTACLE #HBL5352X
    GFCI RECEPTACLE #GF5352X

29. SWITCHES SHALL BE 120/277V, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROWHART, P&S, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

    SINGLE POLE #HBL1221X
    THREE WAY #HBL1223X
    FOUR WAY #HBL1224X
    (ADD "L" SUFFIX FOR KEYED LOCKING TYPE)

30. 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.
31. FOR 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.
32. ALL ABANDONED WIRE SHALL BE REMOVED.
33. 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.
34. RING OUT ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REFUSE 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.
35. WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS, AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.
36. 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 CONFIRMATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
37. PROVIDE 120 VOLT POWER FOR ALL SMOKE/FIRE DAMPERS AND TIE 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.
38. 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

39. 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.
40. ALL 120 VOLT BRANCH CIRCUIT CONDUCTORS EXCEEDING 100' IN LENGTH SHALL BE INCREASED TO THE NEXT WIRE SIZE TO ACCOMMODATE FOR VOLTAGE DROP.
41. PROVIDE ARC-FLASH WARNING LABELS ON ELECTRICAL EQUIPMENT THAT COMPLIES WITH NEC 110.16.
42. PROVIDE CONSPICUOUS AND PERMANENT LABEL ON NEW PANEL BOARDS INDICATING AVAILABLE FAULT CURRENT PER NEC 110.24.
43. ALL PANEL BOARDS SHALL BE CORROSION RESISTANT, 20"W x 6"D NOMINAL, REINFORCED STEEL WITH CONCEALED HINGES AND TRIM. TRIM CLAMPS ARE UNACCEPTABLE. SHORT CIRCUIT RATING SHALL BE THE INTERRUPTING RATING OF THE LOWEST RATED DEVICE IN THE PANEL. LUGS SHALL HAVE SAME CAPACITY AS INCOMING MAINS. BUS BARS SHALL BE COPPER, PHASE EQUENCED, FULLY INSULATED, CONTINUOUS FOR EACH PHASE, AND RATED AS INDICATED ON PLANS. LUGS SHALL BE RATED FOR 75 DEGREE C TERMINATIONS. INTERIORS SHALL BE CONVERTIBLE FOR TOP OR BOTTOM INCOMING FEED. PROTECTIVE DEVICES SHALL BE BOLT-IN MOLDED CASE CIRCUIT BREAKERS (MAXIMUM OF 42 DEVICES EXCLUDING MAIN BREAKER) WITH THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE. ALL BREAKERS SHALL HAVE HANDLE TRIP INDICATION AND A TRIP INDICATOR IN WINDOW OF CIRCUIT BREAKER HOUSING. MAIN BREAKERS SHALL BE UL LISTED FOR USE WITH: SHUNT, UNDER VOLTAGE, AND GROUND FAULT SHUNT TRIPS± AUXILIARY AND ALARM SWITCHES± AND MECHANICAL LUG KITS. BRANCH BREAKERS SHALL BE UL LISTED FOR USE WITH: SHUNT TRIPS, AUXILIARY AND ALARM SWITCHES. FINISH SHALL BE CORROSION RESISTANT, ZINC FINISH GALVANNEAL. FRONTS SHALL BE POWDER FINISH PAINTED ANSI 61 GRAY. PANEL BOARDS TO BE SQUARE D, GENERAL ELECTRIC, OR SIEMENS.

FIRE ALARM NOTES:

1. ALL NEW FIRE ALARM DEVICES SHALL BE ADA APPROVED.
2. ALL AUDIO/VISUAL DEVICES SHALL MATCH EXISTING FACILITY STANDARDS IN ALL ASPECTS.
3. ALL FIRE ALARM DEVICE 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 SYNCED 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) ¾"C. WITH PULL STRING ROUTED FROM THE FIRE ALARM CONTROL PANEL TO NEW 'PIV' WHEN INSTALLED FOR FIRE ALARM SIGNAL WIRING. COORDINATE LOCATION OF PIV 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, MOTION 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.

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
BFG	BELOW FINISHED GRADE
E / R	EXISTING / RELOCATED
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT ON CENTER (COORD WITH ARCH)
	FLUORESCENT LIGHT FIXTURE	
	EMERGENCY LIGHT FIXTURE	
	CEILING MOUNTED LIGHT FIXTURE	
	CEILING MOUNTED WALL WASH LIGHT FIXTURE	
	EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	WALL MOUNTED EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	CONDUIT RUN CONCEALED IN WALL OR CEILING	
	CONDUIT RUN CONCEALED IN THE FLOOR, UNDERGROUND, OR UNDER THE ELEVATED SLAB	
	CONDUIT RUN EXPOSED. ROUTE PARALLEL/PERPENDICULAR TO WALLS AND STRUCTURE.	
	CIRCUITS HOMERUN TO THE PANEL	
	NUMBER OF CONDUCTORS (GROUND NOT SHOWN)	
	FLEXIBLE CONDUIT OR CORD	
	PLYWOOD BACKBOARD. ¾"D(UNO) x 8' H (UNO) x WIDTH AS SHOWN ON PLANS. PAINT WITH FIRE RETARDANT PAINT PRIOR TO INSTALL	
AND	DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	ISOLATED GROUND DUPLEX RECEPTACLE - WALL MOUNTED	18"
AND	GFCI DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	OUTLET ABOVE THE COUNTER	6" ABOVE COUNTER
	SWITCHED DUPLEX RECEPTACLE. SWITCH THE BOTTOM HALF.	18"
	SINGLE RECEPTACLE - WALL MOUNTED	18"
	SPECIAL AMP/VOLT RECEPTACLE - WALL MOUNTED	18"
WP	WEATHER PROOF GFCI DUPLEX RECEPTACLE - WALL MOUNTED	
	4x USB CHARGING PORT DEVICE - HUBBELL USB4	18"
	USB COMBO RECEPTACLE & (2) USB CHARGING PORTS - 20A RECEPTACLE - HUBBELL USB20X2	18"
	CEILING MOUNTED RECEPTACLE	
	FLOOR MOUNTED RECEPTACLE	
	VOICE AND DATA OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET	18"
	FLOOR VOICE AND DATA OUTLET. PROVIDE 1.25" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	
	VOICE OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING.PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	FLOOR BOX RECEPTACLE AND DATA - - WIREMOLD # RFB4 SERIES. PROVIDE 1.5" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.	
	RECEPTACLE AND DATA MULTI-SERVICE POKE THRU - WIREMOLD # RC4 SERIES. PROVIDE 1.25" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.	
	TELEVISION CABLE OUTLET - PROVIDE CABLE	18"
	RECESSED FLAT PANEL ENCLOSURE WITH DUPLEX RECEPTACLE AND AV/DATA BOX - HUBBELL #NSAV62M WITH #NFAV6C COVER, #NSOKP POWER KIT AND AV FRAME. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGHIN. PROVIDE 1.25" CONDUIT FOR DATA AND ¾" CONDUIT FOR CABLE TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA AND CABLE.	
	JUNCTION BOX SIZE AS REQUIRED. PROVIDE CONDUIT AS REQUIRED.	
	JUNCTION BOX - WALL MOUNTED - CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AS REQUIRED	
$ / $3 / $T / $P	SPST SWITCH / 3-WAY SWITCH / TIMER SWITCH / PILOT SWITCH - WALL MOUNTED	48"
$D / $LVD	DIMMER SWITCH / LOW VOLTAGE DIMMER SWITCH - WALL MOUNTED (PROVIDE WATTAGE AS REQUIRED)	48"
$M	MOTOR RATED SWITCH	
OS	WALL MOUNTED OCCUPANCY SENSOR - **WATTSTOPPER WS-250 (LEVITON OSSMT-GDW)** COLOR TO MATCH STANDARD OUTLETS	48"
OS 2	WALL MOUNTED OCCUPANCY SENSOR - TWO RELAY SWITCH - WATTSTOPPER PW-302 OR EQUAL. COLOR TO MATCH STANDARD OUTLETS	48"
OS	CEILING MOUNTED OCCUPANCY SENSOR - **WATTSTOPPER CI-200 (LEVITON OSC20-M0W)** PROVIDE ACCESSORIES AS REQ'D.	
PP	POWER PACK FOR OCCUPANCY SENSOR - TYPE AS REQUIRE.	
	PANELBOARD OR DISTRIBUTION PANEL	
	DISCONNECT (FRAME AND POLES TO MATCH OVER CURRENT PROTECTION REQUIRED PER NEC OR AS NOTED)	
F	FIRE ALARM PULL STATION - WALL MOUNTED	48" AFF TO TOP OF BOX
	FIRE ALARM ADA APPROVED AUDIO/VISUAL (110CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED SPEAKER HORN AUDIO / VISUAL (110CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED VISUAL ONLY (110CD)	80" AFF TO BOTTOM OF VISUAL
F	FIRE ALARM PULL STATION AT 48" AFF TO TOP OF BOX AND AUDIO/VISUAL AT 80" AFF AT 80" AFF TO BOTTOM OF VISUAL	
	SMOKE DETECTOR - CEILING MOUNTED - QUANTITY AS REQUIRED PEN NFPA	

JERICHO design group
102 Mary Alice Park Road, Suite 103
Cumming, GA 30040

12-09-2019

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ELECTRICAL LEGEND AND NOTES

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