DEMOLITION GENERAL NOTES

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ARCHITECTURAL, HVAC, PLUMBING AND FIRE PROTECTION PLANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH THE VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
2. THE ELECTRICAL DEMOLITION PLANS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL COMPONENTS AND ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR BID TO BECOME FAMILIAR WITH THE ACTUAL WORKING CONDITIONS AND EXTENT OF WORK. DISCONNECT AND MAKE SAFE DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS DESIGNATED TO BE REMOVED. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED OR HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR BE SALVAGED.
4. TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN OR ASSOCIATED WITH THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. TRACE AND LABEL ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
5. IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. LEAVE EXISTING EQUIPMENT TO REMAIN IN A CODE COMPLIANT CONDITION.
6. DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. DO NOT ABANDON IN PLACE ITEMS IDENTIFIED FOR DEMOLITION RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. DE-ENERGIZE AND LABEL ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION AS SPARE.
7. TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). PERMANENTLY SUPPORT AND INSTALL TEMPORARILY SUPPORTED ITEMS WHEN FINALIZED STRUCTURES ARE IN PLACE.
8. LEGALLY DISPOSE OF ALL REMOVED ITEMS UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
9. INCLUDE IN THIS CONTRACT ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, PAGING, CCTV, ETC..
10. RECYCLE, BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES. PREPARE A UNIFORM HAZARDOUS WASTE MANIFEST FOR ALL DISPOSALS AND RETURN WITH ALL APPLICABLE SIGN-OFFS PRIOR TO APPLICATION FOR FINAL PAYMENT.
11. VERIFY ALL BALLASTS IN LIGHTING FIXTURES TO BE DISPOSED OF ARE PCB FREE. CONSIDER ALL BALLASTS MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE TO CONTAIN PCBs. PROVIDE WRITTEN REPRESENTATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLASTS SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION. PREPARE A UNIFORM HAZARDOUS WASTE MANIFEST FOR ALL DISPOSALS AND RETURN WITH ALL APPLICABLE SIGNOFFS PRIOR TO APPLICATION FOR FINAL PAYMENT. ALL HANDLING SHALL CONFORM TO EPA REQUIREMENTS.
12. WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

DEMOLITION / RELOCATION LEGEND

- E — EXISTING ELECTRICAL EQUIPMENT, DEVICE AND/OR FIXTURE TO REMAIN
- X — EXISTING ELECTRICAL EQUIPMENT, DEVICE AND/OR FIXTURE TO BE SELECTIVELY DEMOLISHED
- XT — EXISTING ELECTRICAL EQUIPMENT DEVICE AND/OR FIXTURE TO BE REMOVED AND TURNED OVER TO OWNER FOR RE-USE
- XR — EXISTING ELECTRICAL EQUIPMENT, DEVICE AND/OR FIXTURE TO BE REMOVED, STORED AND RE-LOCATED.
- XL — EXISTING ELECTRICAL EQUIPMENT, DEVICE AND/OR FIXTURE INDICATED IN NEW LOCATION
- XN — EXISTING ELECTRICAL DEVICE AND COVER PLATE ONLY SHALL BE REMOVED AND REPLACED WITH NEW; MAINTAIN EXISTING BOX, RACEWAY AND WIRING.

DEMOLITION / RELOCATION NOTES

PHASE LABELS SHOWN ABOVE ARE APPLIED IN SELECT AREAS AND MAY NOT ALWAYS BE PRESENT. REFER TO LINETYPE AND LINEWEIGHT TO DETERMINE EXISTING CONDITIONS AND DEMOLISHED EQUIPMENT.

PROJECT GENERAL NOTES

1. FURNISH LABOR, MATERIALS, TOOLS, AND OTHER EQUIPMENT REQUIRED TO INSTALL THE WORK SHOWN AND SPECIFIED. FURNISH AND INSTALL ITEMS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. MATERIALS SHALL BE NEW AND BEAR THE REGISTERED UL MARK. WORK SHALL CONFORM WITH THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 70 (NEC), AND APPLICABLE FEDERAL, STATE AND LOCAL CODES. SECURE PERMITS AND PAY THE FEES REQUIRED TO CARRY OUT THE WORK. FURNISH COPIES OF CERTIFICATES AND PERMITS TO THE ARCHITECT.
2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND ARE CONSIDERED AS DIAGRAMMATIC ONLY. DETERMINE EXACT LOCATIONS FOR OUTLETS AND EQUIPMENT ON SITE AS WORK PROGRESSES. CHECK AND VERIFY DIMENSIONS AND CONDITIONS ON SITE. DOCUMENT FINAL WORK ON AS-BUILT RECORD DRAWINGS. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS TO BE DETERMINED IN THE FIELD AND NOTED ON THE CONTRACTOR AS BUILTS.
3. COORDINATE AND MAINTAIN THE CLEARANCES REQUIRED BY APPLICABLE FEDERAL, STATE AND LOCAL CODES FOR ALL PIPING, CONDUITS AND EQUIPMENT OF ALL TRADES.
4. CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION DEFLECTION TYPE FITTINGS AS REQUIRED. VERIFY EXISTING JOINTS BY FIELD MEASUREMENTS.
5. RUN RACEWAYS AND CABLES CONCEALED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
6. PROVIDE PANELBOARDS AND SWITCHBOARDS WITH DEDICATED SPACE EXTENDING FROM THE FLOOR TO THE STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE EQUIPMENT, INCLUDING ANY ADDITIONAL SPACE DESCRIBED IN THE NEC. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH SUCH SPACE.
7. MOUNT WIRING DEVICES IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE ARCHITECTURAL BARRIERS BOARD.
8. MOUNT PANELBOARD SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-6".
9. CONNECT EXIT SIGNS, FIXTURES DESIGNATED AS NIGHT LIGHTS, AND EMERGENCY BATTERY UNITS TO AN UNSWITCHED, CONSTANT "ON" SOURCE AS INDICATED. FIXTURES SHOWN TO INCLUDE EMERGENCY BALLAST / DRIVER TO INCLUDE CONSTANT "ON" SOURCE.
10. ALL BRANCH CIRCUITS (LIGHTING AND POWER) SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. COMMON NEUTRALS WILL NOT BE ALLOWED.
11. RECEPTACLES, SWITCHES, LIGHTING FIXTURES, ETC. INDICATE QUANTITY, EXACT LOCATIONS AND HEIGHT OF DEVICES SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH ARCHITECTURAL DRAWINGS.
12. OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R TYPE, UNLESS OTHERWISE NOTED.
13. VERIFY ALL DOORSWINGS BEFORE INSTALLING SWITCH BOXES.
14. FOR EXACT LOCATION OF LIGHTING FIXTURES SEE REFLECTED CEILING PLAN DRAWINGS. FOR MOUNTING HEIGHT OF UNDER-COUNTER LIGHTING FIXTURES AND OTHER TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
15. COORDINATE THE EXACT LOCATION OF LIGHTING FIXTURES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES.
16. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT (AC UNITS, FANS, PUMPS, ETC.) REFER TO RESPECTIVE TRADES DRAWINGS. FOR ELECTRICAL INFORMATION, REFER TO ELECTRICAL PANELBOARD SCHEDULES AND TRADE SCHEDULES
17. FURNISH GROUNDING/ BONDING BUSHINGS ONTO ALL CONDUIT ENTERING/LEAVING BOXES.
18. ALL GROUND CONDUCTORS SHALL BE GREEN, ISOLATED GROUND CONDUCTORS SHALL BE GREEN/ YELLOW STRIPED, AND NEUTRAL CONDUCTORS SHALL BE WHITE.
19. WHERE PANELS ARE INDICATED TO BE RELOCATED, TRACE OUT EACH CIRCUIT TO DETERMINE WHAT CIRCUITS FEED AREAS OUTSIDE THE SCOPE OF WORK. RE-ROUTE CIRCUITS WHICH MUST BE MAINTAINED TO THE NEW PANEL LOCATION BY PROVIDING AN ADEQUATELY SIZED PULL BOX AND SPLICING AND EXTENDING THE CONDUCTORS.
20. UNLESS NOTED OTHERWISE, ALL DATA AND TELEPHONE CABLING IS BY OTHERS. ELECTRICAL DRAWINGS PROVIDE RACEWAY SYSTEMS ONLY AND INDICATE TEL/DATA OUTLET CONFIGURATIONS FOR REFERENCE ONLY.
21. CURRENT CARRYING MATERIAL USED SHALL BE COPPER, INCLUDING PANELBOARD BUS MATERIALS AND TRANSFORMER WINDINGS.

KEYNOTE SYMBOLS LEGEND

- ◇ # — DEMOLITION KEYNOTE SYMBOL
- (#) — NEW WORK KEYNOTE SYMBOL

KEYNOTE SYMBOLS NOTES

"#" - 1,2,3 ETC. - NUMERIC TYPE DESIGNATOR

ABBREVIATIONS

A	AMPERES
ACT	ACOUSTICAL CEILING TILE
AF	AMPERE FRAME
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ARC FAULT REDUCTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ARC-FAULT CIRCUIT INTERRUPTER
ANN	ABOVE FINISHED FLOOR
ANSI	ABOVE FINISHED GRADE
ARCH	ARCHITECTURE
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BOND	BONDING JUMPER
BR	BRANCH
C	CONDUIT - RACEWAY
CAT	CATALOG
CB	CIRCUIT BREAKER
CD	CANDELA
CKT	CIRCUIT
CMS	CABLE MANAGEMENT SYSTEM
CLG	CEILING
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CT	CURRENT TRANSFORMER OR CABLE TRAY
CU	COPPER
CWS	CONDUIT WALL SEAL
DETD	DUAL ELEMENT TIME DELAY
DIA	DIAMETER
DP	DISTRIBUTION PANEL
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUND CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FLOUR	FLUORESCENT
FMS	FACILITIES MANAGEMENT SYSTEM
FT	FEET
FU	FUSE
G	GROUND
GA	GAUGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GWB	GYPSUM WALL BOARD
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HR	HOUR
HTR	HEATER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HZ	HERTZ
IC	INTERRUPTING CAPACITY
INC	INCANDESCENT
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MILS
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATTS
KWH	KILOWATTS HOURS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LTG	LIGHTING
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MCSW	MOLDED CASE SWITCH
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTG	MOUNTING
MV	MEDIUM VOLTAGE
MLO	MAIN LUGS ONLY
N	NEUTRAL (GROUNDED CONDUCTOR)
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OCPD	OVER CURRENT PROTECTION DEVICE
PH	PHASE
PNL	PANEL
PNLBD	PANEL BOARD
POS	PROVIDE UNDER OTHER SECTIONS
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE RACEWAY
PWR	POWER
RGS	GALVANIZED RIGID STEEL CONDUIT
RMC	RIGID METAL CONDUIT
RNC	RIGID NON-METAL CONDUIT
RSC	RIGID STEEL CONDUIT
SATS	STANDBY AUTOMATIC TRANSFER SWITCH
SE	SERVICE ENTRANCE
SP	SPARE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCH GEAR
TEL	TELEPHONE
TL	TWIST LOCK
TP	TWISTED PAIR
TRANS	TRANSFORMER
TSP	TWISTED SHIELDED PAIR
V	VOLT
W/	WITH
W	WIRE
WP	WEATHERPROOF
△	DELTA
Y	WYE

DEVICE LEGEND

RECEPTACLE TAGS

X φ #

OPTIONAL TYPE DESIGNATOR
- "BLANK" - RECEPTACLE WITH NO OPTION
- "GFI" - GROUND FAULT INTERRUPTER
- "C" - MOUNTED 8" ABOVE WORK SURFACE OR COUNTERTOP
- "REF" - MOUNTED AT 48" FOR FULL HEIGHT REFRIGERATOR
- "UC" - MOUNTED UNDER CABINET
- "WP" - WEATHERPROOF TYPE: NEMA 3R MINIMUM
- "WR" - WEATHER RESISTANT DEVICE AND IN-USE COVER
- "TR" - TAMPER RESISTANT
- "USB" - COMBINATION USB DEVICE
- "CP" - RECEPTACLE MOUNTED IN CEILING FOR PROJECTOR
- "PT" - 2 HOUR FIRE RATED POKE-THROUGH
- "TV" - MOUNTED HIGH ON WALL BEHIND TELEVISION.
- "H" - MOUNTED HIGH ON WALL
- "HS" - HALF SWITCHED
- "USB" - COMBINATION USB/DUPLEX RECEPTACLE

PANELBOARD BRANCH CIRCUIT NUMBER

REC SYMBOLS (WALL / CLG / FLR)	RECEPTACLE SYMBOL DESCRIPTION
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE, ON GENERATOR
	DOUBLE DUPLEX RECEPTACLE, ON GENERATOR
	SINGLE RECEPTACLE, ON GENERATOR
	HOSPITAL GRADE, DUPLEX RECEPTACLE
	HOSPITAL GRADE, DOUBLE DUPLEX RECEPTACLE
	HOSPITAL GRADE, DUPLEX RECEPTACLE, ON GENERATOR
	HOSPITAL GRADE, DOUBLE DUPLEX RECEPTACLE, ON GENERATOR
S1 S1 S1	SPECIAL PURPOSE RECEPTACLE NEMA TYPE AS INDICATED ON THE PLANS

RECEPTACLE NOTES

1. ALL RECEPTACLES ARE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
2. COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
3. ALL RECEPTACLES SHALL BE NEMA 5-20R UNLESS OTHERWISE NOTED.
4. PROVIDE ALL RECEPTACLES WITHIN 6'-0" OF A SINK WITH GFCI PROTECTION.
5. ALL RECEPTACLES WITHIN PATIENT ACCESSIBLE AREAS SHALL BE TAMPERPROOF TYPE DEVICES.
6. PROVIDE TAMPERPROOF RECEPTACLES IN ALL CHILD CARE FACILITIES, PRESCHOOLS AND EDUCATION FACILITIES, DORMITORY UNITS, AND WITHIN BUSINESS OFFICES / CORRIDORS / WAITING ROOMS ETC. WITHIN CLINICS / MEDICAL OFFICES / OUTPATIENT FACILITIES.

JUNCTION BOX TAGS

X J

OPTIONAL TYPE DESIGNATOR
- "BLANK" - JUNCTION BOX WITH NO OPTION
- "ADO" - AUTOMATIC DOOR OPERATOR
- "ATC" - AUTOMATIC TEMPERATURE CONTROLS
- "B" - JUNCTION BOX WITH BLANK COVER
- "CCTV" - CLOSED CIRCUIT SECURITY CAMERA
- "ELF" - ELECTRONIC FAUCET OR FLUSH VALVE
- "EM" - EMERGENCY POWER CIRCUIT AS INDICATED
- "EWC" - ELECTRIC WATER COOLER
- "NM" - NORMAL POWER CIRCUIT AS INDICATED
- "PS" - MOTORIZED PROJECTION SCREEN
- "SEC" - SECURITY DEVICES
- "T/D" - TEL/DATA WIRING
- "USB" - COMBINATION USB DEVICE
- "BAT" - BATTERY CHARGER

JUNCTION BOX SYMBOL DESCRIPTION (WALL / CLG / FLR)	
J	JUNCTION BOX

DEVICE SYMBOLS	DEVICE SYMBOL DESCRIPTION
	TRIPLE CHANNEL, SURFACE MOUNTED, ALUMINUM RACEWAY, DUAL COVER WIREMOLD #AL7450 SERIES OR APPROVED EQUAL. RACEWAY TO BE MOUNTED 6" ABOVE WORK SURFACE OR AS DIRECTED BY OWNER/ARCHITECT. PRE-WIRED, WITH DUPLEX NEMA 5-20R RECEPTACLES FOR NORMAL POWER, (RED RECEPTACLES FOR EMERGENCY), AND VOICE/DATA PROVISION LOCATIONS. NORMAL POWER DEVICES 24" ON CENTER, EMERGENCY POWER DEVICES 48" ON CENTER, AND TELE/DATA LOCATIONS 48" ON CENTER. UNLESS OTHERWISE NOTED.
ECB	ENCLOSED CIRCUIT BREAKER - NEMA 1 ENCLOSURE
PB	PULL BOX
ADO	PUSHBUTTON - REFER TO ARCHITECT'S DOOR HARDWARE SCHEDULE FOR EXACT REQUIREMENTS "ADO" - AUTOMATIC DOOR OPENER "EPO" - EMERGENCY PUSH OFF

GROUNDING LEGEND

- GROUNDING COUNTERPOISE - (3) COPPER GROUND RODS AT 10'-0" ON CENTER
- GND — GROUNDING CONDUCTOR; 1/0 CU GND MINIMUM - UNLESS NOTED OTHERWISE
- GROUND ROD
- GROUND BAR - 2"H x 1/4" THICK x 18"L, MOUNTED 24" AFF WITH 2" SPACE BETWEEN GROUND BUS AND WALL
- GROUNDING ELECTRODE CONDUCTOR OF SEPARATELY DERIVED SYSTEM.

MECHANICAL EQUIPMENT COORDINATION

ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND QUANTITIES OF EQUIPMENT RELEASED TO EACH TRADE.

- $^M VFD — PROVIDED BY ELECTRICAL CONTRACTOR
- $^M VFD — PROVIDED BY MECHANICAL CONTRACTOR

THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE DESIGN PLANS OR DETAIL SHEETS. ONLY THOSE SYMBOLS INDICATED ON THE DESIGN PLANS ARE USED AND OTHERS SHOULD BE DISREGARDED.

WIRING LEGEND

- J-HOOK CABLE MANAGEMENT TYPICALLY MOUNTED 6" ABOVE FINISHED CEILING
- CABLE TRAY (WITH FITTING)
- FITTING CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUBBED 6" ABOVE ACCESSIBLE CEILING AT 90° ANGLE WITH BUSHED END
- FLEXIBLE RACEWAY
- PP123 5 — HOMERUN TO PANELBOARD "PP123"; BRANCH CIRCUIT No. 5; 2#12 & 1#12G., 3/4"C. UNLESS OTHERWISE NOTED.

WIRING METHODS

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

NOTE: SIZE AND INSTALL BRANCH CIRCUIT CONDUCTORS FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARDS. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON THE CIRCUIT TO NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.

NORMAL SYSTEM FEEDERS	THHN/THWN/XHHW CONDUCTORS IN EMT
EMERGENCY SYSTEM FEEDERS	MI CABLE
EQUIPMENT SYSTEM FEEDERS	THHN/THWN/XHHW CONDUCTORS IN EMT
NORMAL BRANCH CIRCUITS	THHN/THWN/XHHW CONDUCTORS IN EMT OR HOSPITAL GRADE AC CABLE
EMERGENCY SYSTEM (LIFE SAFETY AND CRITICAL) BRANCH CIRCUITS	THHN/THWN/XHHW CONDUCTORS IN EMT
NURSE CALL SYSTEM WIRING	CONDUCTORS IN EMT
TELEDATA WIRING	CAT6 WIRING IN EMT (REFER TO COMMUNICATIONS LEGEND FOR ADDITIONAL INFORMATION)

RACEWAY SUPPORT LEGEND

TEL/DATA TAGS

DEVICE INDICATOR LETTER "X" COMMUNICATES CONNECTION TYPE

X

OPTIONAL TYPE DESIGNATOR
- "BLANK" - TELE/DATA DEVICE WITH NO OPTION
- "C" - MOUNTED 8" ABOVE WORK SURFACE OR COUNTERTOP
- "H" - MOUNTED HIGH ON WALL
- "W" - WALL MOUNTED PHONE
- "TV" - MOUNTED HIGH ON WALL BEHIND TELEVISION
- "WAP" - MOUNTED FOR WIRELESS ACCESS POINT

TELE/DATA SYMBOL (WALL / CLG / FLR)	TELE/DATA SYMBOL DESCRIPTION
	DATA ONLY OUTLET DEVICE
	VOICE / DATA COMBINATION OUTLET DEVICE
	VOICE ONLY OUTLET DEVICE

TELE/DATA NOTES

1. ALL WALL MOUNTED DEVICES ARE TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
2. COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
3. BACK BOX AND TO BE PROVIDED WITH 1"C (WITH PULL STRING) RUN CONCEALED WITHIN WALL TO ABOVE FINISHED CEILING AND TERMINATING WITHIN 6" OF CABLE TRAY. WIRING AND DEVICES BY OTHERS.

DEVICE SYMBOLS	DEVICE SYMBOL DESCRIPTION
	3/4" THICK x 8'-0" HIGH x LENGTH AS INDICATED ON THE DRAWINGS PLYWOOD. PLYWOOD SHALL BE PAINTED GRAY AND MOUNTED TO WALL.
AV	2-GANG BACKBOX WITH SINGLE GANG PLASTER RING AND COVERPLATE

COMMUNICATION DEVICE NOTES

1. COORDINATE EXACT LOCATION OF SECURITY CAMERAS AND CCTV'S WITH OWNER AND SECURITY VENDOR PRIOR TO INSTALLATION.

POWER LEGEND

PANEL TAGS

"BUILDING NUMBER"
- "CR" - CRITICAL
- "LS" - LIFE SAFETY
- "EQ" - EQUIPMENT BRANCH
- "E" - EMERGENCY
- "LX" - LEGAL STANDBY
- "OX" - OPTIONAL STANDBY
- "S" - SWITCHBOARD
- "D" - DISTRIBUTION PANEL
- "L" - LIGHTING
- "M" - MECHANICAL
- "K" - KITCHEN PANEL
- "P" - POWER
- FLOOR
- SEQUENTIAL PANEL NUMBER PER FLOOR

#-XXX## — *NOTE: PANEL NAMES MAY NOT USE ALL TAG LANGUAGE.*

PANEL MOUNTING SYMBOL DESCRIPTION
- FLUSH MOUNTED PANELBOARD
- SURFACE MOUNTED PANELBOARD

PANEL HATCH SYMBOL DESCRIPTION
- 240/ 208/ 120V PANELBOARD
- 600/ 480/ 277V PANELBOARD
- 240/ 208/ 120V DISTRIBUTION BOARD
- 600/ 480/ 277V DISTRIBUTION BOARD

POWER SYMBOLS	POWER SYMBOL DESCRIPTION
	DISCONNECT SWITCH - NEMA 1 ENCLOSURE - UNFUSED DISCONNECT SWITCH - NEMA 1 ENCLOSURE - FUSED 30A/3P UNLESS OTHERWISE NOTED
60AS 3P 40AF	60AS - DENOTES SWITCH AMPERAGE RATING; 40AF - DENOTES FUSE AMPERAGE RATING; 3P - DENOTES 3-POLE
$^M	MANUAL MOTOR STARTER - INTEGRAL THERMAL PROTECTION
VFD	VARIABLE FREQUENCY DRIVE
T#	DRY TYPE TRANSFORMER # - SIZE, REFER TO TRANSFORMER SCHEDULE
GTA	GENERATOR ANNUNCIATOR PANEL
ATSA	ATS ANNUNCIATOR PANEL

DRAWING LIST

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGEND
E111	ELECTRICAL LEVEL 1 POWER DEMOLITION PLAN
E119	ELECTRICAL LEVEL ROOF POWER DEMOLITION PLAN
E319	ELECTRICAL ROOF LEVEL POWER PLAN
E700	ELECTRICAL SCHEDULES
E900	ELECTRICAL DETAILS

100% CD

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Key Plan:

Owner:

CITY OF WORCESTER

Project Name:

WORCESTER MA SULLIVAN MS AHU REPL

140 APRICOT ST, WORCESTER, MA 01603

North Arrow

Stamp:

COMMONWEALTH OF MASSACHUSETTS — DONALD WALKER — REGISTERED PROFESSIONAL ENGINEER — 08/19/2026

Rev.	Description	Date

Scale Bar:

Drawing Title:

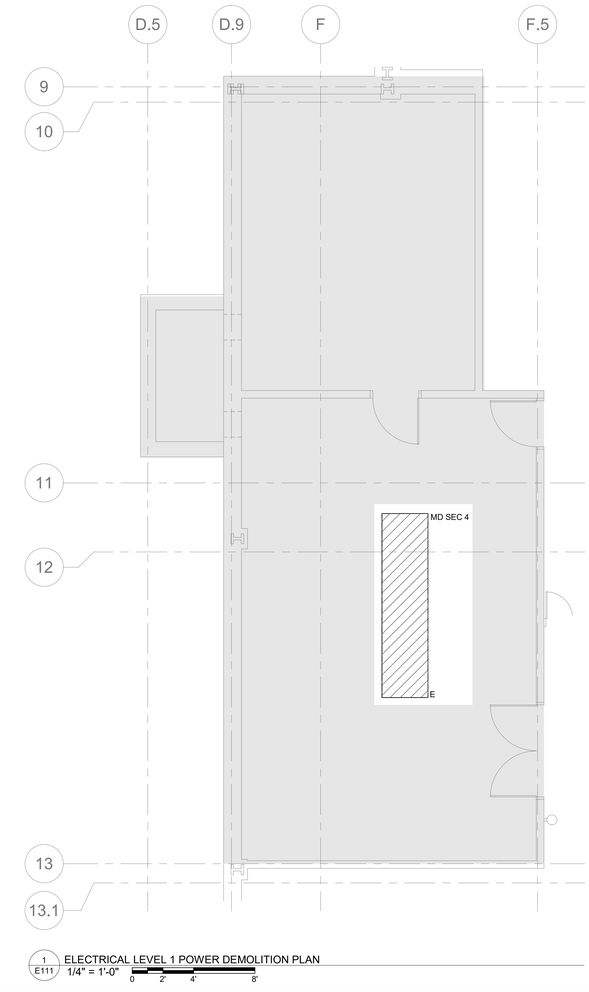
ELECTRICAL LEGEND

Date	08/19/2026
Scale	NTS
Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.

E000

KEYNOTES



1 E111 ELECTRICAL LEVEL 1 POWER DEMOLITION PLAN
1/4" = 1'-0"
0 2' 4' 8'

100% CD

FITZEMEYER & TOCCI ASSOCIATES, INC.
300 Unicorn Park Drive, 5th Floor
Woburn, Ma 01801
(P) 781.481.0210 (F) 781.481.0203

Key Plan:

Owner:

CITY OF WORCESTER

Project Name:

WORCESTER MA SULLIVAN MS AHU REPL

140 APRICOT ST, WORCESTER, MA 01603

North Arrow

Stamp:

COMMONWEALTH OF MASSACHUSETTS
DONALD WALKER
Registered Professional Engineer
08/19/2026

Rev.	Description	Date

Scale Bar:

Drawing Title:

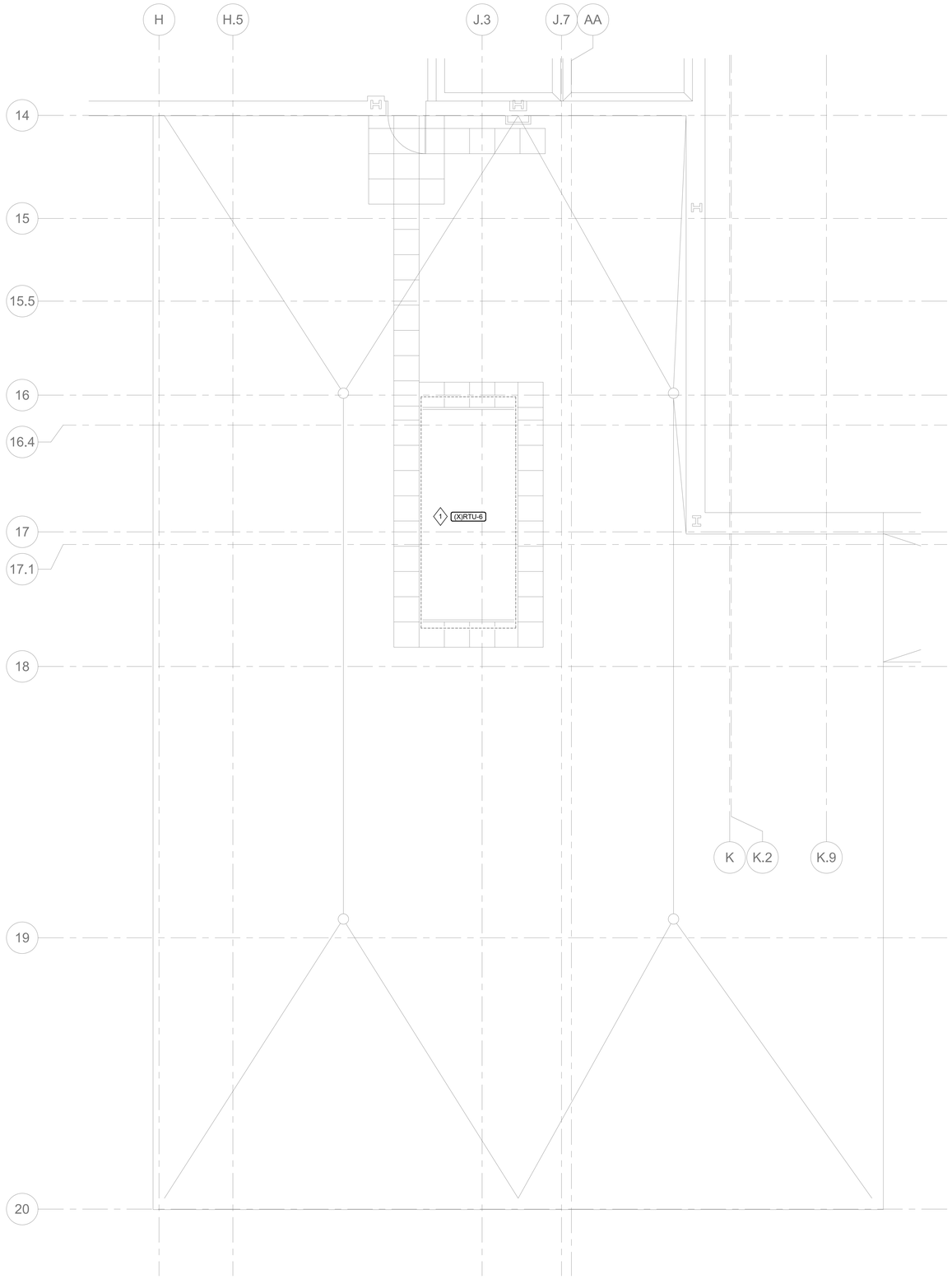
ELECTRICAL LEVEL 1 POWER DEMOLITION PLAN

Date	08/19/2026
Scale	1/4" = 1'-0"
Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.

E111

KEYNOTES	
1	DISCONNECT AND MAKE SAFE EXISTING AHU-6 FOR DEMOLITION BY OTHERS. DEMOLISH EXISTING WIRE BACK TO POINT OF ORIGIN AND DEMOLISH CIRCUIT BREAKER. MAINTAIN EXISTING CONDUIT.



1 E119 ELECTRICAL LEVEL ROOF POWER DEMOLITION PLAN
1/4" = 1'-0"
0 2' 4' 8'

100% CD

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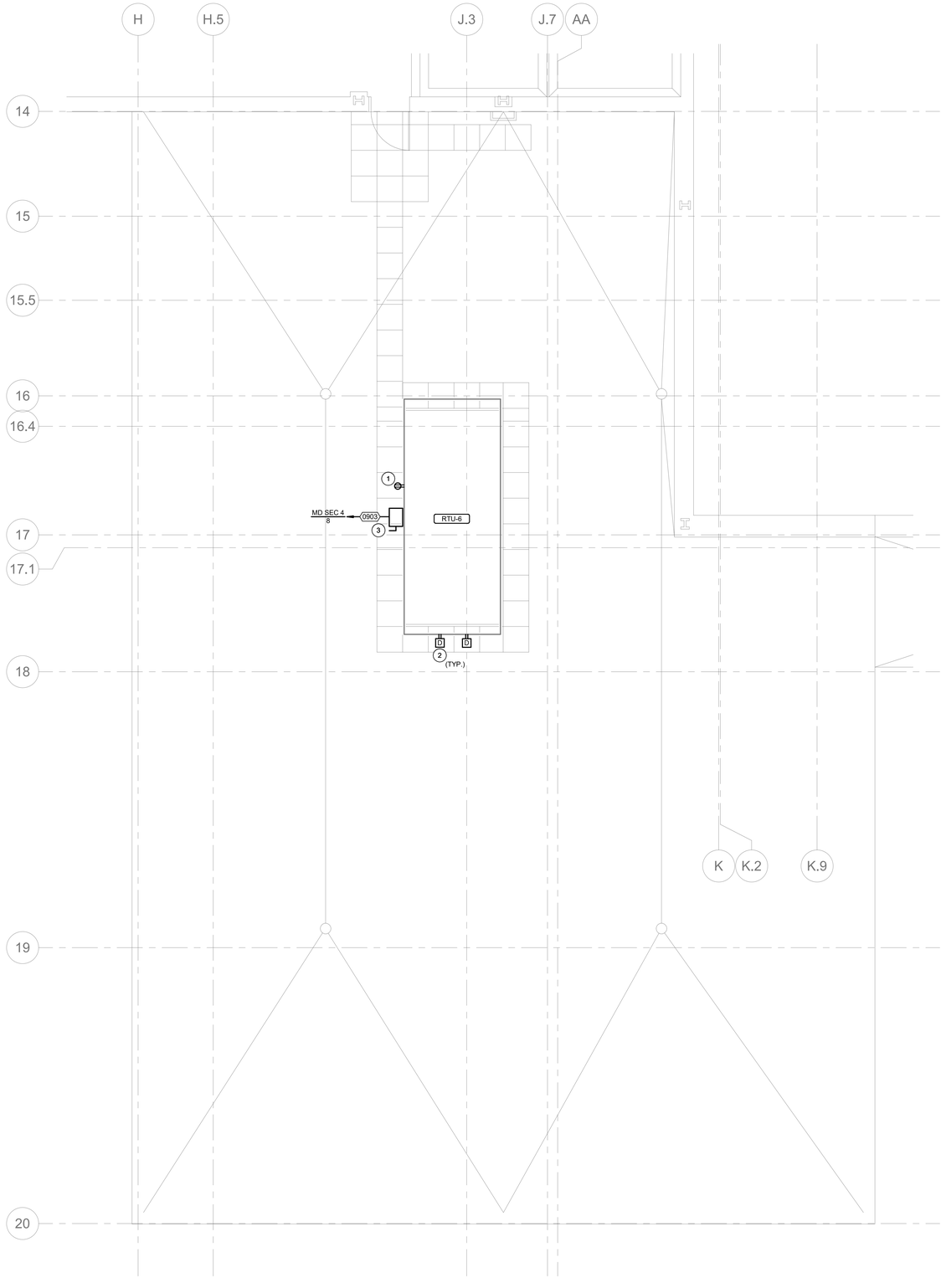
ELECTRICAL LEVEL ROOF POWER DEMOLITION PLAN

Date	08/19/2026
Scale	1/4" = 1'-0"
Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.

E119

KEYNOTES	
1	PROVIDE A NEW WP CONVENIENCE DUPLEX RECEPTACLE. CIRCUIT TO NEAREST 120V RECEPTACLE CIRCUIT SERVING THE AREA.
2	NEW DUCT SMOKE DETECTOR TO BE LOCATED AT RTU-6 FOR UNIT SHUTDOWN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE NEW CONDUIT AND WIRE TO INTERCEPT AND EXTEND EXISTING SLC CIRCUIT SERVING THE AREA TO INCLUDE NEW DEVICES. NEW CONDUIT AND WIRE TO MATCH EXISTING IN ALL RESPECTS.
3	UTILIZE EXISTING CONDUIT MAINTAINED DURING DEMOLITION PHASE. COORDINATE ALL WORK WITH CONTRACTOR PRIOR TO ROUGH-IN.



1 E319 ELECTRICAL POWER ROOF PLAN
1/4" = 1'-0"
0 2' 4' 8'

100% CD

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DONALD WALKER
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08/19/2026

Rev.	Description	Date

Scale Bar:

Drawing Title:

ELECTRICAL ROOF LEVEL POWER PLAN

Date	08/19/2026
Scale	1/4" = 1'-0"
Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.

E319

BRANCH CIRCUIT WIRING LEGEND

NOTES:
1. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS PER NEC TABLE 310.16(2023). ALL FEEDERS RATED 100A AND BELOW ARE TO COMPLY WITH THE 60-DEGREE RATINGS OF TABLE 310.16 AND FEEDERS RATED ABOVE 100A ARE TO COMPLY WITH THE 75-DEGREE RATINGS.
2. CONDUIT SIZES ARE FOR COPPER CONDUCTORS WITH THHN/THWN INSULATION IN RMC.
3. CONDUIT AND CABLE SIZES SHALL BE PER TABLE BELOW UNLESS NOTED OTHERWISE ON THE FLOOR PLANS AND DRAWINGS.
4. SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.

CIRCUIT SYMBOL	CONDUCTORS	CIRCUIT BREAKER
120 & 277V 1PH, 2W CKTS		
151	2#12 & 1#12G - 3/4"C	15/1
201	2#12 & 1#12G - 3/4"C	20/1
251	2#10 & 1#10G - 3/4"C	25/1
301	2#10 & 1#10G - 3/4"C	30/1
351	2#8 & 1#10G - 3/4"C	35/1
401	2#8 & 1#10G - 3/4"C	40/1
451	2#6 & 1#10G - 3/4"C	45/1
501	2#6 & 1#10G - 3/4"C	50/1
601	2#4 & 1#10G - 3/4"C	60/1
208 & 480V 1PH, 2W CKTS		
152	2#12 & 1#12G - 3/4"C	15/2
202	2#12 & 1#12G - 3/4"C	20/2
252	2#10 & 1#10G - 3/4"C	25/2
302	2#10 & 1#10G - 3/4"C	30/2
352	2#8 & 1#10G - 3/4"C	35/2
402	2#8 & 1#10G - 3/4"C	40/2
452	2#6 & 1#10G - 3/4"C	45/2
502	2#6 & 1#10G - 3/4"C	50/2
602	2#4 & 1#10G - 3/4"C	60/2
208 & 480V 3PH, 3W CKTS		
153	3#12 & 1#12G - 3/4"C	15/3
203	3#12 & 1#12G - 3/4"C	20/3
253	3#10 & 1#10G - 3/4"C	25/3
303	3#10 & 1#10G - 3/4"C	30/3
353	3#8 & 1#10G - 3/4"C	35/3
403	3#8 & 1#10G - 3/4"C	40/3
453	3#6 & 1#10G - 3/4"C	45/3
503	3#6 & 1#10G - 3/4"C	50/3
603	3#4 & 1#10G - 3/4"C	60/3

LEGEND OF FEEDER SIZES

COPPER CONDUCTORS

NOTES:
1. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS PER NEC TABLE 310.16(2023). ALL FEEDERS RATED 100A AND BELOW ARE TO COMPLY WITH THE 60-DEGREE RATINGS OF TABLE 310.16 AND FEEDERS RATED ABOVE 100A ARE TO COMPLY WITH THE 75-DEGREE RATINGS.
2. CONDUIT SIZES ARE FOR COPPER CONDUCTORS WITH THHN/THWN INSULATION IN RMC PER NEC TABLE C.9 IN ANNEX C.
3. 600 KCMIL FEEDERS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.
4.SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.
5.CONTRACTOR SHALL PROVIDE PRICING INFORMATION FOR USE OF ALUMINUM FEEDERS AS ADD ALTERNATE #.

FEEDER SYMBOL	CONDUCTORS (3PH, 3W) WITH GROUND	RACEWAY SIZE	CONDUCTORS (3PH, 4W) WITH GROUND	RACEWAY SIZE	NOMINAL AMPERE
TX	REFER TO DRY TYPE TRANSFORMER SCHEDULE				
0703	3#4 & 1#8G	1"			70
0704			4#4 & 1#8G	1 1/4"	
0803	3#3 & 1#8G	1"			80
0804			4#3 & 1#8G	1 1/4"	
0903	3#2 & 1#8G	1 1/4"			90
0904			4#2 & 1#8G	1 1/4"	
1003	3#1 & 1#8G	1 1/4"			100
1004			4#1 & 1#8G	1 1/4"	
1103	3#2 & 1#6G	1 1/4"			110
1104			4#2 & 1#6G	1 1/4"	
1253	3#1 & 1#6G	1 1/4"			125
1254			4#1 & 1#6G	1 1/2"	
1503	3#1/0 & 1#6G	1 1/2"			150
1504			4#1/0 & 1#6G	2"	
1753	3#2/0 & 1#6G	2"			175
1754			4#2/0 & 1#6G	2"	
2003	3#3/0 & 1#6G	2"			200
2004			4#3/0 & 1#6G	2"	
2253	3#4/0 & 1#4G	2"			225
2254			4#4/0 & 1#4G	2 1/2"	
2503	3#250 KCMIL & 1#4G	2 1/2"			250
2504			4#250 KCMIL & 1#4G	2 1/2"	
3003	3#350 KCMIL & 1#4G	3"			300
3004			4#350 KCMIL & 1#4G	3"	
3503	3#500 KCMIL & 1#3G	3"			350
3504			4#500 KCMIL & 1#3G	3 1/2"	
4003	3#500 KCMIL & 1#3G	3"			400
4004			4#500 KCMIL & 1#3G	3 1/2"	
4503	6#4/0 & 2#2G	(2) 2"			450
4504			8#4/0 & 2#2G	(2) 2 1/2"	
5003	6#250KCMIL & 2#2G	(2) 2 1/2"			500
5004			8#250 KCMIL & 2#2G	(2) 2 1/2"	
6003	6#350KCMIL & 2#1G	(2) 3"			600
6004			8#350 KCMIL & 2#1G	(2) 3"	
8003	6#500KCMIL & 2#1/0G	(2) 3"			800
8004			8#500 KCMIL & 2#1/0G	(2) 3 1/2"	
10003	9#400KCMIL & 3#2/0G	(3) 3"			1000
10004			12#400 KCMIL & 3#2/0G	(3) 3"	
12003	9#600KCMIL & 3#3/0G	(3) 3 1/2"			1200
12004			12#600 KCMIL & 3#3/0G	(3) 4"	
16003	12#600KCMIL & 4#4/0G	(4) 3 1/2"			1600
16004			16#600 KCMIL & 4#4/0G	(4) 4"	

(E) Switchboard: MD SEC 4

Location: ELEC SERV 145E
Supply From: EXISTING
Mounting: EXISTING
Enclosure: EXISTING

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type: 1200
Mains Rating: 1200 A
MCB Rating: 4000 A

Notes:
TOTAL AMPERAGE SHOWN IN THIS PANEL SCHEDULE INDICATES SUMMATION OF ANTICIPATED NEW LOADS ADDED TO THE PANELBOARD AND DOES NOT REPRESENT ANY LOADS REMOVED OR ANY EXISTING LOADS ON THE PANELBOARD.

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	XFMER 7617	3	225 A	225 A	0.00 kVA	
2	SPARE	3	400 A	20 A	0.00 kVA	
3	AHU-1	3	125 A	125 A	0.00 kVA	
4	SPARE	3	100 A	100 A	0.00 kVA	
5	AHU-2	3	175 A	175 A	0.00 kVA	
6	SPARE	3	100 A	100 A	0.00 kVA	
7	SPARE	3	200 A	200 A	0.00 kVA	
8	**AHU-6 (79MCA 90MOCP)**	**3**	**100 A**	**90 A**	**65.68 kVA**	
9	AHU-7	3	200 A	200 A	0.00 kVA	
10	LHIB	3	100 A	100 A	0.00 kVA	
11	XFMER 7621	3	125 A	125 A	0.00 kVA	
12	AHU-3	3	70 A	70 A	0.00 kVA	
13	SPARE	3	400 A	20 A	0.00 kVA	
14	PIB	3	30 A	30 A	0.00 kVA	
15	SPARE	3	400 A	20 A	0.00 kVA	
16	HPIB	3	50 A	50 A	0.00 kVA	
17	SPARE	3	150 A	150 A	0.00 kVA	
18	PLI53	3	50 A	50 A	0.00 kVA	
19	AHU-4	3	70 A	70 A	0.00 kVA	
20	PLI54	3	50 A	50 A	0.00 kVA	
				Total Conn. Load:	65.68 kVA	
				Total Amps:	79 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	65.68 kVA	100.00%	65.68 kVA		
				Total Conn. Load:	65.68 kVA
				Total Est. Demand:	65.68 kVA
				Total Conn.:	79 A
				Total Est. Demand:	79 A

Notes:

TYPICAL PANELBOARD NOTES

1. PROVIDE SUB-FEED LUGS FOR MULTI-SECTION PANELS.
2. FURNISH ALL PANELBOARDS FULLY POPULATED WITH BRANCH CIRCUIT BREAKERS, THAT IS, ALL SPACES SHALL HAVE A 20AMP, 1 POLE CIRCUIT BREAKER INSTALLED.
3. PANEL FACE PLATES SHALL BE ATTACHED TO BACK BOX WITH FULL-LENGTH PIANO HINGE AND PROVIDED WITH LOCKING DOOR IN DOOR.
4. PANELBOARDS CONTAINING MAIN SERVICE DISCONNECT MUST BE LISTED FOR THE USE.
5. SERIES RATED INTERRUPTING CAPACITY IS NOT ALLOWED.
6. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND HAGR RATED.
7. NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING PANELBOARD IN ALL RESPECTS INCLUDING SHORT CIRCUIT RATING (kAIC).
8. BOLD CIRCUITS INDICATE NEW CIRCUIT WITHIN EXISTING PANELBOARD.

100% CD

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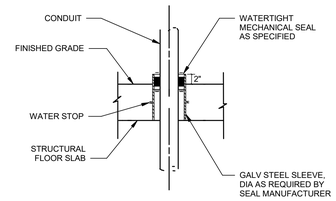
Rev.	Description	Date

Scale Bar:

Drawing Title:
ELECTRICAL SCHEDULES

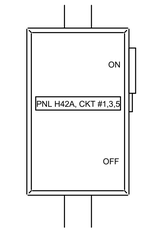
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Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.
E700



1 CONDUIT PENETRATION

SCALE: NTS



FUSED DISCONNECT SWITCH

UNFUSED DISCONNECT SWITCH

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED COVERPLATES TO MATCH FACILITY REQUIREMENTS.

2 FUSED DISCONNECT LABELING DETAIL

SCALE: NTS

100% CD

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Drawing Title:

ELECTRICAL DETAILS

Date	08/19/2026
Scale	NTS
Drawn By	LC
Checked By	DW
Project Number	210538.16

Drawing No.

E900