ELECTRICAL ABBREVIATIONS

A	AMPERE	L	LENGTH, LONG
AC	ALTERNATING CURRENT	LED	LIGHT EMITTING DIODE
AIC	AMPERE INTERRUPTING CURRENT	LTG	LIGHTING
AF	AMPERE FRAME	LV	LOW VOLTAGE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	LVL	LEVEL
AFF	ABOVE FINISH FLOOR		
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER
AT	AMPERE TRIP	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
		MGB	MASTER GROUND BAR
BFG	BELOW FINISHED GRADE	MH	MANHOLE
BLDG	BUILDING	MIN	MINIMUM
BKR	BREAKER	MLO	MAIN LUGS ONLY
		MM	MULTIMODE (FIBER OPTIC CABLE)
C	CONDUIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	MTG	MOUNTING
CKT	CIRCUIT	MTR, M	MOTOR
CLG	CEILING	MTS	MANUAL TRANSFER SWITCH
CMU	CONCRETE MASONARY UNIT		
COMM	COMMUNICATIONS	N, NEU	NEUTRAL
CPT	CONTROL POWER TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
CT	CURRENT TRANSFORMER	NC	NORMALLY CLOSED
CTL	CONTROL	NIC	NOT IN CONTRACT
CU	COPPER	NL	NIGHT LIGHT
		NO	NUMBER, NORMALLY OPEN
DC	DIRECT CURRENT	NTS	NOT TO SCALE
DEM	DEMOLISH		
DISC	DISCONNECT	OD	OUTSIDE DIAMETER
DN	DOWN	OS	OCCUPANCY SENSOR
DO	DOOR OPERATOR	OSP	OUTSIDE PLANT
DPST	DOUBLE POLE SINGLE THROW		
DWG	DRAWING	P	POLE
		PC	PHOTOELECTRIC CELL
EA	EACH	PDU	POWER DISTRIBUTION UNIT
EL	ELEVATION	PF	POWER FACTOR
ELEC	ELECTRIC(AL)	PH, Ø	PHASE
EM, EMER	EMERGENCY, SERVED FROM EM SOURCE	PIR	PASSIVE INFRARED
EMT	ELECTRIC METALLIC TUBING	PKG	PACKAGE
EQUIP	EQUIPMENT	PNL	PANEL, PANELBOARD
ETR	EXISTING DEVICE, FIXTURE, OR EQUIPMENT TO REMAIN	PREP	PREPARATION
		PT	POTENTIAL TRANSFORMER
EWC	ELECTRIC WATER COOLER	P/T	PAN/TILT
EX	EXISTING DEVICE, FIXTURE, OR EQUIPMENT TO REMAIN	P/T/Z	PAN/TILT/ZOOM
		PVC	POLYVINYL CHLORIDE
EXT	EXTERIOR	PWR	POWER
EXIST	EXISTING		
		QTY	QUANTITY
FA	FIRE ALARM		
FAA	FIRE ALARM ANNUNCIATOR	REC	RECEPTACLE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REF	REFRIGERATOR
FACP	FIRE ALARM CONTROL PANEL	REL	EXISTING DEVICE, FIXTURE, OR EQUIPMENT TO BE RELOCATED
FBO	FURNISHED BY OWNER		
FDR	FEEDER	REV	REVISED, REVISION
FLEX	FLEXIBLE	RGS	RIGID GALVANIZED STEEL CONDUIT
FIC	FURNISHED IN CONTRACT	RM	ROOM
FIN	FINISH(ED)	RMS	ROOT MEAN SQUARE
FLR	FLOOR		
FLUOR	FLUORESCENT	SCHED	SCHEDULE
FSD	FIRE SMOKE DAMPER	SPD	SURGE PROTECTION DEVICE
FT	FEET/FOOT	SPEC	SPECIFICATION
FVNR	FULL VOLTAGE NON-REVERSING	SPST	SINGLE POLE SINGLE THROW
FWE	FURNISHED WITH EQUIPMENT	SQ	SQUARE
		ST	SHUNT TRIP
GEC	GROUNDING ELECTRODE CONDUCTOR	STBY	STAND BY
GEN	GENERAL, GENERATOR	SM	SINGLE MODE (FIBER OPTIC CABLE)
GF	GROUND FAULT	SUB	SUBSTATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	SWBD	SWITCHBOARD
GND	GROUND	SWGR	SWITCHGEAR
GRC	GALVANIZED RIGID CONDUIT	SYS	SYSTEM
GRS	GALVANIZED RIGID STEEL		
		T	TIMER
HH	HAND HOLE	TB	TERMINAL BLOCK
HOA	HAND-OFF-AUTO	TC	TIME CLOCK
HP	HORSE POWER	TEL	TELEPHONE
HPF	HIGH POWER FACTOR	TYP	TYPICAL
HTR	HEATER		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	UC	UNDER COUNTER
		UH	UNIT HEATER
HZ	HERTZ (CYCLES PER SECOND)	UL	UNDERWRITERS LABORATORIES
		UON	UNLESS OTHERWISE NOTED
IC	INTERRUPTING CAPACITY (RMS SYMMETRICAL)		
		V	VOLT(S)
ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
IN	INCH		
INSTR	INSTRUMENT	W	WATT(S)
		WHM	WATT HOUR METER
JB	JUNCTION BOX	WP	WEATHERPROOF
KAIC	AMPERE INTERRUPTING CURRENT (THOUSANDS)	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MILS	Z	IMPEDANCE
KVA	KILOVOLT-AMPERES		
KW	KILOWATTS		
KWH	KILOWATT-HOURS		

GENERAL NOTES

A-1	A-1 AT DEVICE OR FIXTURE INDICATES CIRCUITS 1 TO PANEL A. UNLESS NOTED OTHERWISE, TWO #12 AWG CONDUCTORS AND 1# 12 AWG GROUND . MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS PER PHASE, DO NOT SHARE NEUTRAL CONDUCTORS.
B a	NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCH LEG DESIGNATION RESPECTIVELY. UPPER CASE LETTER INDICATES FIXTURE TYPE.

NOTES:

1. ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
2. DIMENSIONS INDICATED IN LEGEND ARE TO BOTTOM OF OUTLET OR EQUIPMENT, UNLESS OTHERWISE INDICATED. DIMENSIONS INDICATED ARE TO COMPLY WITH ACCESSIBILITY CODE(S).
3. REFER TO SPECIFICATIONS FOR FINISH COLOR/TYPE OF DEVICES AND DEVICE PLATES; WHERE NOT INDICATED IN SPECIFICATIONS, CONFIRM FINISH REQUIREMENTS WITH ARCHITECT OR OWNER.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.

SYMBOL LEGEND - RACEWAY

- RACEWAY INSTALLED EXPOSED ON WALLS AND/OR ON CEILING.
- RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING.
- RACEWAY INSTALLED CONCEALED BELOW FLOOR, SLAB, OR GRADE.

SYMBOL LEGEND - SYSTEMS

- RECESSED/FLUSH FLOOR BOX WITH UTILITIES INDICATED. INSTALLATION MAY REQUIRE POKE-THRU OR FLUSH MOUNTED BOX, REFER TO NOTES ON DRAWINGS OR SPECIFICATIONS.
- (X) VOICE/DATA OUTLET 18" A.F.F. - 4"x4" BOX, PLASTER RING, AND 1" CONDUIT FROM BOX TO ACCESSIBLE CEILING, NETWORK CABLING BY OTHERS, NO "X" INDICATES (2) CONNECTIONS/CABLES, UNLESS OTHERWISE INDICATED.
- (X) VOICE/DATA OUTLET CEILING MOUNTED - 4"x4" BOX, PLASTER RING, AND 1" CONDUIT FROM BOX TO ACCESSIBLE CEILING, NETWORK CABLING AS SPECIFIED OR AS INDICATED. "X" INDICATES QUANTITY OF CONNECTIONS/CABLES PER OUTLET. NO "X" INDICATES (1) CONNECTIONS CABLE, UNLESS OTHERWISE INDICATED.
- TELEPHONE (ANALOG) OUTLET 18" A.F.F. - 4"x4" BOX, PLASTER RING, AND 1" CONDUIT FROM BOX TO ACCESSIBLE CEILING, CABLING AS SPECIFIED OR AS INDICATED.

SYMBOL LEGEND - POWER

- XXX — MECHANICAL EQUIPMENT TAG - REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION AND BRANCH CIRCUIT REQUIREMENTS.
- PANELBOARD - FLUSH OR SURFACE MOUNTED, VOLTAGE AS INDICATED IN SCHEDULE.
- DISCONNECT SWITCH - RATING/POLES/ENCLOSURE/FUSING AS INDICATED. (EXAMPLE: 30/3/3R/NF)
- DUPLEX RECEPTACLE - 18" A.F.F. OR AT HEIGHT INDICATED. NEMA-5-20R
- DOUBLE DUPLEX RECEPTACLE - 18" A.F.F. OR AT HEIGHT INDICATED
- DUPLEX 20A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 18" A.F.F., OR AT HEIGHT INDICATED.
- DOUBLE DUPLEX 20A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 18" A.F.F., OR AT HEIGHT INDICATED.
- J — JUNCTION BOX - CEILING/WALL/FLOOR MOUNTED.
- CENTER HATCHING INDICATES OUTLETS TO BE INSTALLED ABOVE COUNTER TOPS. INSTALL DEVICES HORIZONTALLY ABOVE COUNTER TOP AND/OR BACKSPLASH, OR AS INDICATED ON ARCHITECTURAL DRAWINGS. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DETAILS AND ELEVATIONS. MAXIMUM OUTLET HEIGHT SHALL BE 46" TO CENTERLINE OF OUTLET PER ADA ADULT OBSTRUCTED REACH REQUIREMENTS.
- SPECIAL RECEPTACLE AS NOTED - 18" A.F.F., UNLESS OTHERWISE NOTED
- PP — POWER POLE
- MD — MOTORIZED DAMPER 120V POWER CONNECTION. DIV 26 TO PROVIDE 4"X4" DEVICE BOX WITH 20A TOGGLE SWITCH FOR LOCAL DISCONNECT AND FLEX CONENCTION TO CONTROL POWER TRANSFORMER SUPPLIED BY DIV 23. PROVIDE 120V CONNECTION FROM NEAREST VAV OR PIU CIRCUIT.
- $M — MOTOR RATED SWITCH
- FLOOR BOX - LETTER DESIGNATES TYPE(A=2 DUPLEX/2 PORT DATA; B=2 DUPLEX/4 PORT DATA/HDMI)
- POKE THRU - LETTER DESIGNATES TYPE(A=2 DUPLEX/2 PORT DATA; B=2 DUPLEX/4 PORT DATA/HDMI)
- DO — ELECTRICAL DOOR OPERATOR. FUSE PER MANUFACTURER'S RECOMMENDATIONS

SYMBOL LEGEND - LIGHTING

- CEILING OUTLET AND LIGHTING FIXTURE (HALF SHADED INDICATES EMERGENCY FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY BACK-UP)
- WALL OUTLET FIXTURE (HALF SHADED INDICATES EMERGENCY FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGNECY BACK-UP)
- DOWNLIGHT FIXTURE (SHADED INDICATES EMERGENCY FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY BACK-UP)
- WALL OUTLET AND FIXTURE (SHADED INDICATES EMERGENCY FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY BACK-UP)
- CEILING OR WALL MOUNTED EXIT SIGN. ARROWS DENOTE DIRECTION OF EGRESS
- FLOOD/SPOT OR TRACK MOUNTED FIXTURE
- TRACK LIGHTING
- $ — 0-10V DIMMER WITH TOGGLE SWITCH - 48" AFF
- $OS — OCCUPANCY SENSOR SWITCH - 48" AFF
- $T — TIMER SWITCH
- PP — POWER PACK. PROVIDE OCCUPANCY SENSORS PER MANUFACTURER'S RECOMMENDATION FOR 100% SPACE COVERAGE.

SYMBOL LEGEND - SYSTEMS

- CR — CARD READER CONTROLLED DOOR PROVIDE ROUGH-IN PER DOOR SCHEDULE, PROVIDE 120V/20A CONNECTION FROM LOCAL JUNCTION BOX. DEVICES CABLING/SYSTEM BY OTHERS.
- DC — DURESS CALL STATION. PROVIDE SINGLE-GANG BOX AND 3/4"C TO ABOVE ACCESSIBLE CEILING. PROVIDE 120V/20A CONNECTION FROM LOCAL JUNCTION BOX. DEVICES CABLING/SYSTEM BY OTHERS.
- CCTV CAMERA LOCATION, PROVIDE 120V/20A CONNECTION FROM LOCAL JUNCTION BOX. DEVICES CABLING/SYSTEM BY OTHERS.

SYMBOL LEGEND - ONE LINE

- _AF _AT _P LSIG ARMS — DRAWOUT CIRCUIT BREAKER:
  AF = AMP FRAME
  AT = AMP TRIP
  P = POLE
  LSIG: ELECTRONIC TRIP ADJUSTMENTS INCLUDE LONGTIME PICKUP, LONGTIME DELAY, SHORT-TIME PICKUP, SHORT-TIME DELAY, INSTANTANEOUS, GROUND FAULT PICKUP AND DELAY
  ARMS: ARC FLASH REDUCTION MAINTENANCE SWITCH
  LSI: SAME AS LSIG, BUT WITHOUT GROUND FAULT FUNCTION
- 30/3/3R/NF — FUSIBLE SWITCH:
  RATING/POLES/ENCLOSURE/FUSING
  (NF = NONFUSED)
- _AF _AT _P LSIG — CIRCUIT BREAKER:
  AF = AMP FRAME
  AT = AMP TRIP
  P = POLE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- C — CONTACTOR COIL
- R — RELAY COIL
- TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS)
- TRANSFORMER
- MAIN LUGS ONLY PANEL - SEE PANEL SCHEDULE FOR DETAILS
- PANEL WITH MAIN BREAKER - SEE PANEL SCHEDULE FOR DETAILS
- REMOTE POWER PANEL OR MULTI-SECTION PANEL
- ELECTRICAL CONNECTION
- LUGS
- CURRENT TRANSFORMER
- M — METER WITH CURRENT TRANSFORMERS
- GFR — GROUND FAULT RELAY
- ST — SHUNT TRIP UNIT
- A — AMMETER
- V — VOLTMETER
- PF — POWER FACTOR METER
- AS — AMMETER SWITCH
- VS — VOLTMETER SWITCH
- PQM — POWER QUALITY METER
- FUSED DISCONNECT SWITCH - FRAME RATING/ POLES/NEMA ENCLOSURE/FUSE SIZE
- DISCONNECT SWITCH - FRAME RATING/ POLES/NEMA ENCLOSURE
- HP — MOTOR - SIZE AS INDICATED

FIRE ALARM SYMBOLS LEGEND

FACP	FIRE ALARM CONTROL PANEL.
FAA	FIRE ALARM ANNUNCIATOR PANEL
RS	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR REMOTE STATION.
PS	VALVE PRESSURE SWITCH - REFER TO FIRE PROTECTION FOR EXACT LOCATIONS.
TS	VALVE TAMPER SWITCH - REFER TO FIRE PROTECTION FOR EXACT LOCATIONS.
FS	VALVE FLOW SWITCH - REFER TO FIRE PROTECTION FOR EXACT LOCATIONS.
PIV	FIRE ALARM POST INDICATOR VALVE TAMPER SWITCH.
DH	DOOR HOLD OPEN DEVICE - INTERCONNECT WITH FIRE ALARM SYSTEM, COORDINATE WITH DIVISION 8.
S, S I, S B	FIRE ALARM SYSTEM SMOKE DETECTOR (BLANK=PHOTOELECTRIC, I=IONIZATION, B=BEAM)
S	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR - REFER TO DIV 23 FOR EXACT LOCATIONS.
F	FIRE ALARM SYSTEM MANUAL PULL STATION.
	FIRE ALARM SYSTEM HORN/STROBE SIGNAL. BOTTOM OF STROBE LENS SHALL BE 80" AFF, LOCATE WITHIN 6" OF DOOR FRAME, ALIGN WITH WALL SWITCH, WHERE APPLICABLE. ("S" INDICATES SPEAKER/STROBE IN LIEU OF HORN/STROBE)
	CEILING MOUNTED FIRE ALARM SYSTEM HORN/STROBE SIGNAL. ("S" INDICATES SPEAKER/STROBE IN LIEU OF HORN/STROBE)
	FIRE ALARM SYSTEM HORN SIGNAL. ("S" INDICATES SPEAKER/STROBE IN LIEU OF HORN/STROBE)
	CEILING MOUNTED FIRE ALARM SYSTEM HORN/STROBE SIGNAL. ("S" INDICATES SPEAKER/STROBE IN LIEU OF HORN/STROBE)
	FIRE ALARM SYSTEM STROBE-ONLY SIGNAL. BOTTOM OF STROBE LENS SHALL BE 80" AFF. LOCATE WITHIN 6" OF DOOR FRAME, ALIGN WITH WALL SWITCH, WHERE APPLICABLE.
	FIRE ALARM CEILING MOUNTED STROBE
	FIRE ALARM SYSTEM BELL. 80" A.F.F. MEASURED TO HORIZONTAL CENTERLINE OF DEVICE. LOCATE WITHIN 6" OF DOOR FRAME, ALIGN WITH WALL SWITCH, WHERE APPLICABLE.
F/SD	FIRE/SMOKE DAMPER BY MECHANICAL. PROVIDE 120V CONNECTION FROM NEAREST VAV OR PIU CIRCUIT, OR, IF NOT AVAILABLE, FROM NEAREST 120V CONVENIENCE RECEPTACLE. INTERCONNECT WITH FIRE ALARM SYSTEM. PROVIDE A DUCT MOUNTED SMOKE DETECTOR WITHIN 5-FEET OF EACH F/SD, AND INTERCONNECT FOR ACTIVATION.
	FIRE ALARM SYSTEM RATE OF RISE HEAT DETECTOR.

RENOVATION NOTES

1. WORK INVOLVES NECESSARY INTERFACE WITH, AND REFIT OF, THE EXISTING INSTALLATION, AND THE INSTALLATION OF NEW MATERIALS TO PROVIDE FINISHED WORK AS SHOWN BY THE PLANS. WHETHER OR NOT SHOWN BY THE PLANS, EXISTING MATERIALS SERVING RENOVATION SPACES, OR ROUTED THROUGH THE RENOVATION SPACES, BUT NOT INVOLVED IN THE RENOVATION/ ADDITION WORK, AND NOT OTHERWISE SPECIFIED OR INDICATED BY THE PLANS FOR REMOVAL, SHALL BE RETAINED WITHOUT CHANGE.
2. THE EXISTING INSTALLATION IS TO REMAIN IN PLACE AND IN OPERATION, EXCEPT AS OTHERWISE INDICATED OR SPECIFIED. WORK SHALL BE PROVIDED AS NECESSARY TO TIE-IN THE NEW INSTALLATION WITH THE EXISTING INSTALLATION, AND TO ADAPT THE EXISTING INSTALLATION TO CHANGES IN SYSTEMS OR BUILDING.
3. ANY NECESSARY TEMPORARY CONNECTION OR SERVICE SHALL BE PROVIDED AND PERFORMED IN SUCH MANNER AS TO MAINTAIN OPERATION IN ALL BUILDING AREAS. SYSTEMS OR MATERIALS WHICH ARE TO REMAIN IN SERVICE, BUT ARE TEMPORARILY DISCONNECTED, SHALL BE RECONNECTED AND RESTORED TO THEIR ORIGINAL OPERATING CONDITION.
4. THE RATINGS, LOCATION AND USAGE OF ANY EXISTING MATERIAL (ELECTRICAL CIRCUIT, ETC.) SHOWN BY THE PLANS OR INVOLVED IN THE WORK SHALL BE VERIFIED AT THE SITE.
5. BEFORE USING OR ADDING TO ANY EXISTING ELECTRICAL CIRCUIT, CHECK THE RELATED EXISTING CIRCUIT CAPACITY, AND DO NOT MAKE ANY CONNECTION THAT WOULD OVERLOAD ANY CIRCUIT OR IMPROPERLY USE ANY EXISTING CIRCUIT. BEFORE REMOVING ANY EXISTING CIRCUIT, CHECK ALL CONNECTED LOADS TO ENSURE THAT THERE ARE NO UNKNOWN EXISTING LOADS THAT SHOULD REMAIN CONNECTED - DO NOT REMOVE ANY EXISTING CIRCUIT WHERE EXISTING LOADS TO REMAIN WOULD BE PERMANENTLY DISCONNECTED. MAKE A FIELD SURVEY OF ANY SUCH INADEQUATE CONDITION, AND PROVIDE INFORMATION TO THE ENGINEER IN DETAIL AND IN A TIMELY MANNER SO THAT NECESSARY REDESIGN MAY BE ACCOMPLISHED BY THE ENGINEER.
6. FOR NEW CIRCUITS ADDED TO EXISTING PANELS TO REMAIN, USE EXISTING CIRCUIT BREAKERS WHERE AVAILABLE. ADD OR REARRANGE CIRCUIT BREAKERS WITHIN PANELBOARDS AS REQUIRED TO MATCH NEW CIRCUIT DESIGNATIONS SHOWN ON DRAWINGS. DO NOT RE-USE 30 AMP SINGLE POLE CIRCUIT BREAKERS TO FEED GENERAL POWER CIRCUITS OR LIGHTING CIRCUITS. OVERCURRENT PROTECTION MUST COMPLY WITH NEC 210.20. REPLACE DAMAGED OR BROKEN CIRCUIT BREAKERS- NEW CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC TYPE UNLESS NOTED OTHERWISE. FAULT CURRENT AND SERIES RATING MUST BE MAINTAINED WITH MODIFICATIONS. PLUG UNUSED OPENINGS WITH BLANK FILLERS. REPAIR OR REPLACE BROKEN DOOR HINGES AND DOOR LATCHES.
7. FOR ALL DISTRIBUTION EQUIPMENT MODIFICATIONS TO EXISTING SWITCHBOARDS AND PANELBOARDS, NEW SWITCHES AND CIRCUIT BREAKERS TO BE INSTALLED SHALL BE OF THE SAME MANUFACTURER, STYLE AND TYPE AS THE EXISTING EQUIPMENT, WITH RATINGS AS SHOWN. FURNISH AND INSTALL ORIGINAL MANUFACTURER MOUNTING AND INSTALLATION HARDWARE, CLOSURE PLATES, AND TRIM PIECES AS REQUIRED TO COMPLETE THE INSTALLATION. FIELD FABRICATED HARDWARE SHALL NOT BE ACCEPTABLE. ALL EXISTING DISTRIBUTION EQUIPMENT BEING MODIFIED SHALL BE RETURNED TO ORIGINAL, FULLY ENCLOSED CONDITION. FAULT CURRENT AND SERIES RATING MUST BE MAINTAINED WITH MODIFICATIONS.
8. EXPOSED WIRING RENDERED USELESS DUE TO CHANGES IN THE BUILDING SHALL BE REMOVED. CONCEALED WIRING AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC., SHALL BE REMOVED OR RELOCATED AND RECONNECTED AS NECESSARY. OTHER MATERIALS SHALL BE REMOVED AS NECESSARY OR INDICATED.
9. EXISTING MATERIALS THAT ARE NOT REUSED SHALL BE REMOVED WHERE POSSIBLE WITHOUT INTERFERING WITH OTHER MATERIAL, UNLESS OTHERWISE SPECIFIED OR INDICATED TO BE ABANDONED IN PLACE. WHERE ABANDONED IN PLACE, WIRING, OR OTHER MATERIAL SHALL BE DISCONNECTED AND SECURED SO AS NOT TO BE MISTAKEN FOR ACTIVE MATERIAL OR TO CONTRIBUTE TO A POTENTIALLY UNSAFE CONDITION. MATERIAL ABANDONED IN PLACE SHALL HAVE ANY OPEN END OR OUTLET IN CONDUIT PLUGGED OR BLANKED OFF.
10. MATERIALS TO BE RELOCATED OR SALVAGED SHALL BE DISCONNECTED AND DEMOUNTED WITHOUT DAMAGE. DEMOUNTED MATERIALS SHALL BE STORED AT THE JOB SITE UNDER THE BEST CONDITIONS PRACTICAL. MATERIALS TO REMAIN IN PLACE WHILE WORK IS IN PROGRESS SHALL BE DISCONNECTED IF NECESSARY TO FUNCTION OR SAFETY, AND PROTECTED BY SUITABLE MEANS.
11. EXISTING MATERIALS, TO INCLUDE EQUIPMENT, MAY NOT BE REUSED UNLESS OTHERWISE STATED OR SPECIFIED. WHERE REUSED, MATERIALS SHALL BE REFURBISHED AND PUT IN SATISFACTORY CONDITION BEFORE REUSE.
12. EXISTING MATERIAL THAT IS REMOVED AND NOT IDENTIFIED FOR SALVAGE OR REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
13. WHERE SYSTEMS ARE ADDED TO, NEW MATERIAL SHALL BE OF THE SAME TYPE, STYLE AND MANUFACTURE AS THE EXISTING SYSTEM MATERIAL, WHERE AVAILABLE.
14. ELECTRICAL CABLE OR CONDUCTORS DAMAGED OR REMOVED FROM RACEWAYS SHALL NOT BE REUSED.
15. ELECTRICAL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY CODE AND CONSISTENT WITH COLOR CODING FOR EXISTING FACILITY SYSTEMS.
16. WORK SHALL BE PERFORMED ON A SCHEDULE AND IN A MANNER AS DESCRIBED HEREIN OR BY OTHER DIVISIONS OR SECTIONS OF THE SPECIFICATIONS, OR AS CALLED FOR BY INSTRUCTIONS TO BIDDERS OR BY OWNER'S CRITERIA. WHERE INTERRUPTION OF ELECTRICAL POWER TO EXISTING FACILITIES WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF OTHER PORTIONS OF THE OWNER'S PROPERTY, THIS WORK SHALL BE DONE AT A TIME OTHER THAN THE OWNER'S NORMAL WORKING HOURS. SCHEDULE SHALL BE SUBMITTED IN WRITING FOR THE OWNER'S APPROVAL AT LEAST TWO WEEKS IN ADVANCE OF THE PROPOSED POWER INTERRUPTION.
17. WORK SHALL BE PERFORMED WITHIN THE ACCESS, PROPRIETY, SECURITY, AND HOUSEKEEPING CONDITIONS SPECIFIED HEREIN OR BY OTHER DIVISIONS OR SECTIONS OF THE SPECIFICATIONS, OR AS CALLED FOR BY INSTRUCTIONS TO BIDDERS OR BY OWNER'S CRITERIA.
18. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY NONFUNCTIONING MATERIAL OR POTENTIALLY UNSAFE CONDITION WITHIN THE EXISTING AND INVOLVED SYSTEMS THAT IS OBSERVED DURING THE CONDUCT OF THE WORK. PROPOSALS FOR THIS WORK SHALL BE BASED UPON EXAMINATION OF THE SITE AND CONDITIONS THEREON AND/OR THEREIN. PROPOSALS SHALL TAKE INTO CONSIDERATION SAID CONDITIONS WHICH MAY AFFECT WORK COVERED BY THIS SPECIFICATION.
19. COORDINATE WITH THE OWNER OR DESIGNATED OWNER'S REPRESENTATIVE TO LEARN OF ANY HAZARDOUS CONDITION OR MATERIAL THAT MAY EXIST AT THE SITE.
20. RENOVATION WORK AS SHOWN ON DRAWINGS AND INCLUDED IN THESE NOTES INDICATE ITEMS IN A GENERAL MANNER. TYPICAL ITEMS INVOLVED IN THE RENOVATION ARE SHOWN BUT THE DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO SUBMISSION OF BID.

DEMOLITION NOTES

1. PRIOR TO DEMOLITION, CONTRACTOR SHALL PROPERLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED FASHION. COORDINATE ALL POWER INTERRUPTIONS WITH OWNER AND RECEIVE OWNER PERMISSION PRIOR TO ANY INTERRUPTION.
2. IF THE CONTINUITY OF FIRE ALARM, LIGHTING, OR POWER CIRCUITS OR EQUIPMENT OR AREAS OUTSIDE THE SCOPE OF THE DEMOLITION WORK IS INTERRUPTED BY THIS WORK, THE CONTRACTOR SHALL INSTALL REQUIRED WIRING TO INSURE THE CONTINUITY OF CIRCUITS TO EXISTING AREAS OUTSIDE THE DEMOLITION AREAS.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO SUBMISSION OF BID.
4. EXISTING ELECTRICAL ITEMS THAT ARE BEING REMOVED AND NOT REUSED IN THIS NEW CONSTRUCTION SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED. REMOVAL AND DISPOSAL OF THE EXISTING ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR IS RESPONSIBLE FOR CORING, CUTTING, PATCHING, REPAIRING, REMOVAL, REPLACEMENT, DISCONNECTING, RELOCATING, RECONNECTING OR REFINISHING OF EXISTING CONSTRUCTION, MATERIAL OR EQUIPMENT AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WORK OR REMOVAL OF ANY EXISTING ITEMS. PATCHING, REPAIRING, REPLACEMENT AND REFINISHING SHALL MATCH EXISTING CONSTRUCTION.

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ELECTRICAL LEGEND AND NOTES

PROJECT #	19160MONRpo
DATE:	Issue Date
DRAWN BY:	Author
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PERMIT SET

E001

SCALE 12" = 1'-0"