

## ELECTRICAL ABBREVIATIONS

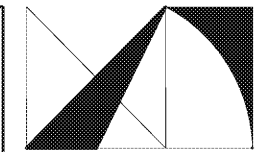
A	AMMETER, AMPERE, AUTOMATIC, PHASE A	IN	INCH
AC	ALTERNATING CURRENT		
AIC	AMPERE INTERRUPTING CURRENT	J, JB	JUNCTION BOX
AF	AMPERE FRAME		
AFF	ABOVE FINISH FLOOR	KAIC	AMPERE INTERRUPTING CURRENT (THOUSANDS)
AT	AMPERE TRIP	KCMIL	THOUSAND CIRCULAR MILS
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT-AMPERES
		KW	KILOWATTS
BLDG	BUILDING		
BKR	BREAKER	LED	LIGHT EMITTING DIODE
		LTG	LIGHTING
		LV	LOW VOLTAGE
C	COMMUNICATIONS, CONDUIT		
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MECH	MECHANICAL
CLG	CEILING	MFR	MANUFACTURER
COMM	COMMUNICATIONS	MLO	MAIN LUGS ONLY
CU	COPPER	MOCP	MAXIMUM OVERCURRENT PROTECTION
		MTD	MOUNTED
DEM	DEMOLISH	MTR,M	MOTOR
DISC	DISCONNECT		
DWG	DRAWING	N,NEU	NEUTRAL
		NEC	NATIONAL ELECTRICAL CODE
EA	EACH	NL	NIGHT LIGHT
ED	EXISTING DEMOLISHED	NTS	NOT TO SCALE
EF	EXHAUST FAN		
ELEV	ELEVATOR		
EM, EMER	EMERGENCY, SERVED FROM EM SOURCE	OS	OCCUPANCY SENSOR
EMT	ELECTRIC METALLIC TUBING		
EQUIP	EQUIPMENT	PC	PHOTOELECTRIC CELL
EWC	ELECTRIC WATER COOLER	PF	POWER FACTOR
EWH	ELECTRIC WATER/WALL HEATER	PH,Ø	PHASE
EX	EXISTING	PIR	PASSIVE INFRARED
		PNL	PANEL, PANELBOARD
		PVC	POLYVINYL CHLORIDE
		PWR	POWER
FA	FIRE ALARM		
FBO	FURNISHED BY OWNER	QTY	QUANTITY
FDR	FEEDER		
FIXT	FIXTURE	REC	RECEPTACLE
FLR	FLOOR	REF	REFRIGERATOR
FLUOR	FLUORESCENT	REL	RELOCATED
FSD	FIRE SMOKE DAMPER	RM	ROOM
FT	FEET/FOOT		
FVNR	FULL VOLTAGE NON-REVERSING		
		SCHED	SCHEDULE
G	GROUND	SPD	SURGE PROTECTION DEVICE
GF	GROUND FAULT	SPEC	SPECIFICATION
GFI	GROUND FAULT INTERRUPTER	ST	SHUNT TRIP
GND	GROUND	SW	SWITCH
		SYS	SYSTEM
HOA	HAND-OFF-AUTO		
HP	HORSE POWER	T	TIMER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	TEL	TELEPHONE
		TYP	TYPICAL
HZ	HERTZ (CYCLES PER SECOND)		
		UC	UNDER COUNTER
		UH	UNIT HEATER
		UL	UNDERWRITERS LABORATORIES
		UON	UNLESS OTHERWISE NOTED
		V	VOLT(S)
		VFD	VARIABLE FREQUENCY DRIVE
		WHE	WATER HEATER/ELECTRIC
		WP	WATERPROOF, WEATHERPROOF
		XFMR	TRANSFORMER

## RENOVATION NOTES

- WORK INVOLVES NECESSARY INTERFACE WITH, AND REIT 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.
- 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.
- 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.
- 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.
- 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.
- FOR NEW CIRCUITS ADDED TO EXISTING PANELS TO REMAIN, USE EXISTING CIRCUIT BREAKER 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 FLUORESCENT 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 EDGES AND DOOR LATCHES.
- 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 HARDWARE, CLOSURE PLATES, AND TRIM PIECES AS REQUIRED TO COMPLETE THE INSTALLATION. FINISH 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.
- EXPOSED WIRING RENDERED USELESS DUE TO CHANGES IN THE BUILDING SHALL BE REMOVED. CONCEALED WIRING AND CONDUITS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC., SHALL BE REMOVED OR RELOCATED AND DISCONNECTED AS NECESSARY. OTHER MATERIALS SHALL BE REMOVED AS NECESSARY OR INDICATED.
- EXISTING MATERIALS THAT ARE NOT REUSED SHALL BE REMOVED WHERE POSSIBLE WITHOUT INTERFERING WITH OTHER MATERIAL, UNLESS OTHERWISE SPECIFIED OR INDICATED TO BE REMOVED 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.
- 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.
- 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.
- EXISTING MATERIAL THAT IS REMOVED AND NOT IDENTIFIED FOR SALVAGE OR REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED. REMOVAL AND DISPOSAL OF THE EXISTING ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE SYSTEMS ARE ADDED TO, NEW MATERIAL SHALL BE OF THE SAME TYPE, STYLE AND MANUFACTURE AS THE EXISTING SYSTEM MATERIAL, WHERE AVAILABLE.
- ELECTRICAL CABLE OR CONDUCTORS DAMAGED OR REMOVED FROM RACEWAYS SHALL NOT BE REUSED.
- ELECTRICAL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY CODE AND CONSISTENT WITH COLOR CODING FOR EXISTING FACILITY SYSTEMS.
- 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.
- 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.
- 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.
- COORDINATE WITH THE OWNER OR DESIGNATED OWNER'S REPRESENTATIVE TO LEARN OF ANY HAZARDOUS CONDITION OR MATERIAL THAT MAY EXIST AT THE SITE.

## DEMOLITION NOTES

- PRIOR TO DEMOLITION, CONTRACTOR SHALL PERMANENTLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED POSITION. COORDINATE ALL POWER INTERRUPTIONS WITH OWNER AND RECEIVE OWNER PERMISSION PRIOR TO ANY INTERRUPTION.
- 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.
- 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.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO SUBMISSION OF BID.
- 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.
- 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.

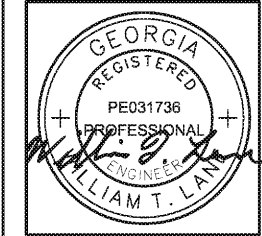


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