ELECTRICAL SYMBOL LEGEND:

RACEWAYS

- RACEWAY CONCEALED IN FLOOR, SLAB, OR UNDERGROUND.
- RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
- RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED.
- FLEXIBLE RACEWAY.
- RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
- RACEWAY TURNED UP.
- RACEWAY TURNED DOWN.

CABLE TRAYS

- CT — LADDER TYPE CABLE TRAY, 12" WIDE UNLESS OTHERWISE NOTED ON FLOORS PLANS.

WIRES & CABLES

- RACEWAY WITH 3 WIRES #12 AWG IN CONDUIT, EXCLUDING GROUNDING CONDUCTOR. NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF #12 AWG CONDUCTORS, LESS GROUNDING CONDUCTOR. SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH = NEUTRAL. NO CROSS HATCHES INDICATES 2 #12 AWG EXCLUDING GROUNDING CONDUCTOR IN CONDUIT. #10 ADJACENT TO CROSS HATCHES INDICATES #10 AWG CONDUCTORS THROUGHOUT INSTEAD OF #12 AWG.
- T — RACEWAY RUN TO TELEPHONE BACKBOARD.

BOXES AND WIRING DEVICES

NOTE: DIMENSION ADJACENT TO BOX OR WIRING DEVICE INDICATES MOUNTING HEIGHT AFF. LOWER CASE LETTERS ADJACENT TO LIGHTING CONTROL DEVICES INDICATES LIGHTING CONTROL ARRANGEMENT.

- J — JUNCTION BOX, ABOVE CEILING.
- J H — JUNCTION BOX, WALL-MOUNTED.
- J — JUNCTION BOX, FLUSH FLOOR (F = JUNCTION BOX FOR POWER CONN TO PRE-WIRED FURNITURE SYSTEM. COORDINATE EXACT REQUIREMENTS FOR CONNECTION OF MODULAR OFFICE FURNITURE PANELS WITH THE PARTICULAR SUPPLIER, AND MAKE FINAL CONNECTIONS).
- P — PULLBOX.
- S — WALL SWITCH, SINGLE-POLE, SINGLE-THROW. MOUNT 48" AFF UON.
- S3 — WALL SWITCH, 3-WAY, SINGLE-POLE, DOUBLE-THROW. MOUNT 48" AFF UON.
- SWP — WALL SWITCH, WEATHERPROOF, SINGLE-POLE, SINGLE-THROW. MOUNT 48" AFF UON.
- SINGLE RECEPTACLE OUTLET, WALL-MOUNTED. MOUNT 18" AFF UON.
- DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED. MOUNT 18" AFF UON.
- DOUBLE DUPLEX RECEPTACLE OUTLET, WALL MOUNTED. MOUNT 18" AFF UON.
- DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, HORIZONTALLY ABOVE COUNTER.
- GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED. MOUNT 18" AFF UON.
- GFCI DUPLEX RECEPTACLE OUTLET, WALL-MOUNTED, HORIZONTALLY ABOVE COUNTER.
- WP — DUPLEX RECEPTACLE OUTLET WITH WEATHERPROOF FACEPLATE, WALL-MOUNTED.
- DUPLEX RECEPTACLE, FLUSH FLOOR-MOUNTED IN FLOOR BOX WITH COVERPLATE.
- DUPLEX RECEPTACLE, CEILING MOUNTED.
- 208 VOLT, 20 AMPERE, 1-PH, 3-WIRE GROUNDING RECEPTACLE. MOUNT 18" AFF UON.
- SPECIAL OUTLET, TYPE AS NOTED. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT.
- H — SPECIAL OUTLET, TYPE AS NOTED. WALL-MOUNTED. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT.
- H EPO — EMERGENCY POWER OFF SWITCH WITH CLEAR PLASTIC COVER. LABEL COVER "EMERGENCY POWER SHUTDOWN" IN RED COLOR. MOUNT 66" AFF UON.

GROUNDING

- OR — GROUNDING ELECTRODE.
- GB — GROUND BUS.

MOTORS AND STARTERS

- 2 — MOTOR, NUMERAL INDICATES HP.
- MOTOR CONTROLLER. MOUNT 48" AFF UON.
- MOTOR CONTROLLER/DISCONNECT. MOUNT 48" AFF UON.
- CONTROL PANEL WITH INTEGRAL MOTOR CONTROLLER/DISCONNECT.
- VSD — VARIABLE SPEED DRIVE. MOUNT 48"AFF UON.
- S_T — MOTOR STARTER, MANUAL WITH THERMAL OVERLOAD. MOUNT 48" AFF UON.
- S_M — MOTOR STARTER, MANUAL. MOUNT 48" AFF UON.

PANELBOARDS

- PANELBOARD, SURFACE-MOUNTED.
- PANELBOARD, FLUSH-MOUNTED.
- DISTRIBUTION PANELBOARD, SURFACE-MOUNTED.

INDIVIDUAL CIRCUIT BREAKERS

- 30/3 — INDIVIDUAL CIRCUIT BREAKER. TRIP/POLES. MOUNT 48"AFF UON.

CIRCUIT AND MOTOR DISCONNECTS

- 30/3/20/4 — DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF UON.

LIGHTING FIXTURES

- A — CEILING-MOUNTED FLUORESCENT LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
- X X — EXIT LIGHT, CEILING-MOUNTED, WITH PROVISIONS FOR EMERGENCY LIGHTING. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
- X X — EXIT LIGHT, WALL-MOUNTED, WITH PROVISIONS FOR EMERGENCY LIGHTING. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
- BATTERY-POWERED EMERGENCY LIGHT. MOUNT 7'-6" AFF.

ELECTRICAL ABBREVIATIONS:

AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR
ARCH	ARCHITECT/ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
ATBS	AUTOMATIC TRANSFER AND BY-PASS ISOLATION SWITCH
A/V	AUDIO/VISUAL
BCKBRD	BACKBOARD
BFC	BELOW FINISHED CEILNG
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CNTRL	CONTROL
CONN	CONNECTION
COORD	COORDINATE
DISC	DISCONNECT
DN	DOWN
EC	EMPTY CONDUIT
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EPSS	EMERGENCY POWER SUPPLY SYSTEM
EQUIP	EQUIPMENT
EX	EXISTING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION SYSTEM FOR EQUIPMENT PROTECTION
GRC	RIGID METAL CONDUIT
F	FUSED
F*	FUSED PER MANUFACTURER'S REQUIREMENTS
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FIX	FIXTURE
FL	FLOOR
FPCP	FIRE PUMP CONTROL PANEL
G	GROUND
GPCO	GEORGIA POWER COMPANY
GRC	GALVANIZED RIGID CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HTG	HEATING
INCAND	INCANDESCENT
IG	ISOLATED GROUND
IR	INTERRUPTING RATING
JB	JUNCTION BOX
KA	KILOAMPERES
kcmil	THOUSAND CIRCULAR MILLS
LTG	LIGHTING
LC	LIGHTING CONTACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MNFR	MANUFACTURER
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY-CLOSED
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NF	NONFUSIBLE
OCP	OVERCURRENT PROTECTION
OCPD	OVERCURRENT PROTECTION DEVICE
PC	PHOTOCELL
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RECP	RECEPTACLE
REQ	REQUIREMENTS/REQUIRED
RM	ROOM
SCCR	SHORT CIRCUIT CURRENT RATING
SPEC	SPECIFICATION
SPDT	SINGLE-POLE DOUBLE-THROW
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VSD	VARIABLE SPEED DRIVE
WCR	WITHSTAND CURRENT RATING
WP	WEATHERPROOF
XFMR	TRANSFORMER

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG SERIES	LAMP QUANTITY & TYPE	VOLTAGE/ DESIGN WATTAGE	MOUNTING METHOD	DESCRIPTION
A	DAY-BRITE HUBBELL LIGHTOLIER LITHONIA METALUX	2DP RS SPS2 2SP 2C	3 - F32T8 - 3500K MINIMUM CRI 75	120/105	RECESSED, CEILING	2' x 4' STATIC PRISMATIC LENSED TROFFER WITH NOMINAL 4.5" DEPTH, 0.125" THICKNESS PATTERN 12 LENS, AND WHITE REGRESSED, ALUMINUM DOOR FRAME. PROVIDE FLANGED TRIM WHEN USED IN GYPSUM BOARD OR PLASTER CEILINGS.
E	EMERGI-LITE HUBBELL McPHILBEN SURE-LITES	DLM-2 PE2 65 CU-1	PROVIDED BY MANUFACTURER	120/20	SURFACE, WALL	EMERGENCY BATTERY PACK LUMINAIRE WITH WHITE POLYCARBONATE DECORATIVE HOUSING SEALED MAINTENANCE-FREE B ATTERY PACK FOR 90 MINUTE OPERATION, AND TWO 5.4 WATT SIDE MOUNTED LAMPS
X	EMERGILITE HUBBELL JUNO LITHONIA SURE-LITES	ECL PR EXG50 LQM CCX	LED LAMPS, SUPPLIED BY MANUFACTURER.	120/ 5W PER FACE	SURFACE, WALL, OR CEILING PER DRAWINGS	INJECTION MOLDED HIGH-IMPACT THERMOPLASTIC EXIT SIGN WITH SINGLE- OR DOUBLE- FACE AS INDICATED ON THE DRAWINGS, WHITE HOUSING FINISH, RED LETTERS, UNIVERSAL ARROWS AND UNIVERSAL MOUNTING. LUMINAIRE SHALL COMPLY WITH NFPA 101-2000 SECTION 7.10. VISIBLE LED LAMPS ARE NOT ACCEPTABLE. PROVIDE INTEGRAL MAINTENANCE-FREE BATTERY PACK.

NO.	REVISIONS	DATE

NO.	REVISIONS	DATE
	ISSUED FOR CONSTRUCTION	09/13/04

Newcomb & Boyd
Consulting Engineering Group
Suite 525
303 Peachtree Center Avenue, NE
Atlanta, Georgia 30303-1277
T 404 730-8400
F 404 730-8401
CONTACT: JUSTIN ZIEGLER
N&B PROJECT: 04N080

GEORGIA INSTITUTE OF TECHNOLOGY
CEETHERM DATA CENTER
TEST LAB

TITLE
ELECTRICAL LEGEND AND NOTES

THIS DRAWING WAS PREPARED SITE SPECIFIC FOR THE ABOVE-NAMED PROJECT AND IS NOT, WITHOUT THE EXPRESS WRITTEN CONSENT OF NEWCOMB & BOYD, INTENDED FOR USE ON ADDITIONS TO THIS PROJECT, FOR COMPLETION OF THIS PROJECT BY OTHERS, OR FOR USE ON OTHER PROJECTS.

SEAL

PROJECT NO. 04N080
DATE 09/08/04
SCALE NONE
DRAWING NO.

E0.1

OF

FILE: G:\04N080-PRJ\E-D\ CAD DRAWING FILES\1775\04\01 ELECTRICAL LEGEND AND NOTES.DWG
PLOT BY: JZ
PLOT DATE: 11/16/2004
PLOT TIME: 8:55:59 AM