SYMBOLS & ABBREVIATIONS SCHEDULE

LIGHTING

(REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION, LUMINAIRE SYMBOLS ARE SHOWN TO INDICATE GENERAL SHAPE & SIZE, ACTUAL SYMBOLS MY VARY)

T42,a,13 / S42,b,12 — LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.

LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.

A4 c 17 / A8 c 17 — RECESSED DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

AW4 d 19 / AW8 d 19 — RECESSED WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

EM / EM / EM / EM — EMERGENCY LUMINAIRE, PROVIDE LUMINAIRE TYPE AS INDICATED. REFER TO PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

K III abc — WALL LIGHT SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. PROVIDE WITH MATCHING COVERPLATES
"K" - KEYED SWITCH.
"3" - 3-WAY
"4" - 4-WAY
"WP" - WATERPROOF (IP66 MINIMUM)

D III abc — WALL MOUNTED DIMMER CONTROLLER (LED OR FLUORESCENT), ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER COMMON COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. UNLESS OTHERWISE NOTED, PROVIDE 0-10VDC. COORDINATE & PROVIDE ANY ADDITIONAL WIRING REQUIREMENTS.

OS — LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.

OS — WALL MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) TYPE SWITCH.

OS — LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.

VS — LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.

VS — WALL MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) TYPE SWITCH.

VS — LOW VOLTAGE CORNER MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS, LOW VOLTAGE SWITCHING & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.

PC — DAYLIGHT HARVESTING PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED. LOCATE IN ROOM PER MANUFACTURERS REQUIREMENTS.

10'-0" — LUMINAIRE MOUNTING HEIGHT TAG. INDICATES THE HEIGHT THAT THE BOTTOM OF LUMINAIRE SHALL BE INSTALLED IN THE ASSOCIATED ROOM.

TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE. REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION.

EMERGENCY LUMINAIRE UNIT, SHALL BE WITH BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODES.

EXIT SIGN (LED TYPE), SHALL PROVIDED WITH INTEGRAL BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODE.

TYPICAL LUMINAIRE NOTATION

LUMINAIRE TYPE — T42,a,13 — SWITCH LEG, BRANCH CIRCUIT; EM/NL — EMERGENCY AND/OR NIGHTLIGHT

PUBLIC ADDRESS & SOUND SYSTEM

SP — SPEAKER, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

SP — SPEAKER, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

WS — WALL STATION CONTROLLER. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

H — PROGRAM HORN. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING WIRING.

B — PROGRAM BELL. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING WIRING.

WALL MOUNTED CLOCK. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING WIRING. REFER TO CLOCK SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

VC — VOLUME CONTROL, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

AM — AMPBIENT SENSING MICROPHONE, COORDINATE EXACT LOCATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

CM — MICROPHONE, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

MS — MICROPHONE STATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

SECURITY & ACCESS CONTROL (SYSTEMS)

CCTV CAMERA, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX, MOUNTING HARDWARE, & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CR — CARD READER, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DR — DOOR RELEASE CONNECTION TO DOOR HARDWARE, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

KP — KEYPAD STATION, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

WC — WINDOW CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DC — DOOR CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

MOTION SENSOR, SURFACE MOUNTED, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DB — DOOR BELL (BUZZER/RELEASE), VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DA — DURESS ALERT ACTUATOR, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

ICM — INTERCOM STATION.

AREA OF RESCUE ASSISTANCE (SYSTEMS)

ARA — AREA OF RESCUE ASSISTANCE AREA STATION, WALL MOUNTED.

MARA — AREA OF RESCUE ASSISTANCE MASTER STATION, WALL MOUNTED.

ARA — AREA OF RESCUE ASSISTANCE DIRECTIONAL INDICATOR, WALL OR CEILING MOUNTED. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.

FIRE ALARM

EL — FIRE ALARM SYSTEM SMOKE SENSOR, (CEILING MOUNTED) PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). TAG 'EL' INDICATES SMOKE DETECTORS SHALL BE PROGRAMMED FOR ELEVATOR RECALL.

FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

F 190°F — FIRE ALARM SYSTEM HEAT DETECTOR. PROVIDE WITH FIXED TEMPERATURE SENSING ELEMENT (190°F OR AS OTHERWISE NOTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

CO / CO — CEILING MOUNTED / WALL MOUNTED — CARBON MONOXIDE DETECTOR. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

IR / UV — FLAME DETECTOR, CEILING MOUNTED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TAG INDICATES UV OR IR TECHNOLOGY.

FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

TS — FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

F — FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

RECEIVER / TRANSMITTER — FIRE ALARM SYSTEM BEAM DETECTOR TRANSMITTER & RECEIVER SYSTEM. PROVIDE COMPLETE INSTALLATION INCLUDING REMOTE TEST STATION, PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

XXXcd — FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

XXXcd — FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

XXXcd — FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.

XXXcd — FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FA — FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

ZAM — FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

CZAM — FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

IAM — FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FSR — FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

ISO — FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

F — FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLDER. VERIFY REQUIRED VOLTAGE PRIOR TO ORDERING. PROVIDE COMPLETE INTERFACE TO FACP AS REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FACP — TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

NACP — FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

R.A. — FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

60% DESIGN DOCUMENTS

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL

SYMBOLS, NOTES, AND ABBREVIATIONS

DRAWING NUMBER
E002