

ELECTRICAL LEGEND

LIGHTING

LED OR FLUORESCENT LIGHT FIXTURE

LED OR FLUORESCENT LIGHT FIXTURE WALL MOUNTED VERTICALLY

LED, COMPACT FLUORESCENT, HID OR INCANDESCENT LIGHT FIXTURE

LED, COMPACT FLUORESCENT OR INCANDESCENT WALL WASH LIGHT FIXTURE

ROUND OR SQUARE LIGHT FIXTURE AS SHOWN—PARALLEL LINES INDICATE ORIENTATION OF LAMPS/LED MODULES—MOUNT FIXTURE SUCH THAT LAMPS/LED MODULES ARE ORIENTED TO MATCH PARALLEL LINES

HIGH INTENSITY DISCHARGE LIGHT FIXTURE

POLE MOUNTED LIGHT FIXTURE

EXIT LIGHT—SHADED AREA INDICATES FACE(S)—ARROWS AS INDICATED ON DRAWINGS

LIGHT FIXTURE ON EMERGENCY CIRCUIT, OR WITH PARTIAL LAMPS ON EMERGENCY CIRCUIT

EMERGENCY EGRESS LIGHT FIXTURE

DEVICES

S SINGLE POLE SWITCH

SS DOUBLE SWITCHING—TWO SWITCHES AS INDICATED WIRED SUCH THAT SWITCH NEAREST DOOR CONTROLS TWO OUTBOARD LAMPS IN EACH FIXTURE, REMAINING SWITCH CONTROLS REMAINING LAMPS(S)

MODIFIERS FOR SWITCHES:

3 = THREE WAY
4 = FOUR WAY
DL = DIMMER SWITCH FOR LED—0-10V DIMMING WITH CLASS 1 0-10V CONTROL LINK, 120-277V LINE VOLTAGE, 8A LOAD CAPACITY, MINIMUM 50mA SINK CAPACITY—LUTRON #DSTV OR APPROVED EQUAL BY COOPER OR HUBBELL
DS = DIMMER/OCCUPANCY/VACANCY SENSOR SWITCH FOR LED—0-10V DIMMING WITH CLASS 1 CONTROL LINK, 120-277V LINE VOLTAGE, 8A LOAD CAPACITY, MINIMUM 50mA SINK CAPACITY—LUTRON #MS-Z101 OR APPROVED EQUAL BY COOPER OR HUBBELL
TS = TIMER SWITCH—120/277V, 800W @ 120V, 1200W @ 277V, SET FOR 30 MINUTES—WATSTOPPER #TS-400-G, OR APPROVED EQUAL BY LUTRON OR HUBBELL

NUMBER (70) INDICATES MAX FOOTCANDLE LIGHT LEVEL SETTING FOR DIMMING SYSTEM—SET AT 55 FOOTCANDLES UNO—SEE SPECS AND DETAILS

S_{OSX} WALL MOUNT OCCUPANCY SENSOR SWITCH

MODIFIERS FOR SWITCHES:

OS1 = OCCUPANCY SENSOR — WALL MOUNT, PASSIVE INFRARED TYPE, 120/277V, 800W, SINGLE SWITCH/RELAY, AUTO OR MANUAL ON—WATTSTOPPER #PW-301 OR APPROVED EQUAL
OS2 = OCCUPANCY SENSOR — WALL MOUNT, PASSIVE INFRARED TYPE, 120/277V, 800W, DOUBLE SWITCH/RELAY, AUTO OR MANUAL ON—WATTSTOPPER #PW-302 OR APPROVED EQUAL
OS3 = OCCUPANCY SENSOR — WALL MOUNT, DUAL TECHNOLOGY PASSIVE INFRARED/ULTRASONIC TYPE, 120/277V, 800W, SINGLE SWITCH/RELAY, AUTO OR MANUAL ON—WATTSTOPPER #DSW-301 OR APPROVED EQUAL
OS4 = OCCUPANCY SENSOR — WALL MOUNT, DUAL TECHNOLOGY PASSIVE INFRARED/ULTRASONIC TYPE, 120/277V, 800W, DOUBLE SWITCH/RELAY, AUTO OR MANUAL ON—WATTSTOPPER #DSW-302 OR APPROVED EQUAL

OS OCCUPANCY SENSOR LIGHTING CONTROLLER — CEILING MOUNT, INDOOR, LINE VOLTAGE, 120/277V

MODIFIERS FOR SENSORS:

UT1 = ULTRASONIC TYPE, 120V=800W, 277V=1200W, 500 SQUARE FOOT COVERAGE—WATTSTOPPER #UT-355-1 OR APPROVED EQUAL
UT2 = ULTRASONIC TYPE, 120V=800W, 277V=1200W, 1000 SQUARE FOOT COVERAGE—WATTSTOPPER #UT-355-2 OR APPROVED EQUAL
UT3 = ULTRASONIC TYPE, 120V=800W, 277V=1200W, 2000 SQUARE FOOT COVERAGE—WATTSTOPPER #UT-355-3 OR APPROVED EQUAL
PI1 = PASSIVE INFRARED TYPE, 120V=800W, 277V=1200W, 500 SQUARE FOOT COVERAGE—WATTSTOPPER #CI-355-1 OR APPROVED EQUAL
PI2 = PASSIVE INFRARED TYPE, 120V=800W, 277V=1200W, 1000 SQUARE FOOT COVERAGE—WATTSTOPPER #CI-355-2 OR APPROVED EQUAL
DT1 = DUAL TECHNOLOGY PASSIVE INFRARED/ULTRASONIC TYPE, 120V=800W, 277V=1200W, 1000 SQUARE FOOT COVERAGE—WATTSTOPPER #DT-355 OR APPROVED EQUAL

SEE DETAILS FOR MOUNTING AND SPACING FROM HVAC DIFFUSERS OF OCCUPANCY SENSORS

120V DUPLEX RECEPTACLE

120V DUPLEX RECEPTACLE—MOUNTED HIGH—SEE MOUNTING DETAILS

120V DUPLEX RECEPTACLE FLUSH IN CEILING

TWO 120V DUPLEX RECEPTACLES IN TWO GANG BOX

250V RATED RECEPTACLE—NEMA 6-20 UNO

DEVICES (CONTINUED)

250V RATED RECEPTACLE—NEMA 6-20 UNO—MOUNTED HIGH—SEE MOUNTING DETAILS

120V DUPLEX RECEPTACLE IN FLUSH FLOOR BOX

SPECIAL RECEPTACLE—SEE PLANS FOR NEMA CONFIGURATION

DEVICES AS SHOWN IN LARGE CAPACITY AUDIO/VIDEO WALL BOX FOR WALL MOUNT FLAT AV EQUIPMENT (MONITOR AND SMART BOARD)—PROVIDE BARRIER BETWEEN 120V AND COMMUNICATION SECTIONS—MOUNT 72" AFF—COORDINATE EXACT HEIGHT AND LOCATION WITH AV CONTRACTOR—COORDINATE WITH AV CONTRACTOR AND TELECOM INSTALLER (OWNER/NCSSU COMTECH) AND PROVIDE A SINGLE MULTIGANG COVER PLATE FOR BOX AND INSTALLED DEVICES; PROVIDE LARGE OPENING IN COVER PLATE FOR PRETERMINATED AV CABLES—HUBBELL/RACO #263 WITH COVER #790 SERIES, OR APPROVED EQUAL BY THOMAS & BETTS, COOPER/CROUSE HINDS, AUSTIN OR HAMMON

DEVICES AS INDICATED IN SURFACE MOUNTED SERVICE FITTING/PEDESTAL

SUSPENDED RECEPTACLE OR OTHER DEVICE—PROVIDE DEVICE AS INDICATED IN BOX SUSPENDED BY CORD—SEE SUSPENDED RECEPTACLE DETAIL

DEVICES AS SHOWN IN MULTI-GANG BOX WITH SINGLE COVER PLATE—PROVIDE BARRIER BETWEEN LOW VOLTAGE SIDE AND HIGH VOLTAGE SIDE AS REQUIRED

MODIFIERS FOR RECEPTACLES:

42 = NUMBER ADJACENT DEVICE INDICATES CIRCUIT NUMBER
EWC = RECEPTACLE FOR ELECTRIC WATER COOLER—SEE 'RECEPTACLE FOR ELECTRIC WATER COOLER' DETAIL
GF = GROUND FAULT INTERRUPTER
LB = DEVICE MOUNTED IN LAB BENCH PANEL—SEE ISLAND LAB BENCH POWER & TELECOM SERVICE DETAIL
LK = DEVICE MOUNTED IN LAB BENCH KNEE SPACE—SEE ISLAND LAB BENCH POWER & TELECOM SERVICE DETAIL
L6-20R = NEMA CONFIGURATION 'L6-20R'—CONFIGURATION MAY VARY
COORDINATE EXACT LOCATION OF RECEPTACLE FOR PARTICULAR EQUIPMENT WITH EQUIPMENT PROVIDER/INSTALLER SUCH THAT IT IS LOCATED AT EQUIPMENT/CORD LOCATION AND AS RECOMMENDED BY EQUIPMENT MANUFACTURER

LIGHTING CONTROLS — NETWORK SYSTEM

RC_{NCX} ROOM CONTROLLER

NOX OCCUPANCY SENSOR — CEILING MOUNT

S_{NSX} SWITCH

X = SEE PLANS AND DETAILS FOR PARTICULAR TYPE OF DEVICE
NUMBER (70) INDICATES FOOTCANDLE LIGHT LEVEL SETTING FOR DIMMING SYSTEM—SEE SPECS AND DETAILS

EQUIPMENT CONNECTIONS AND OUTLETS

MOTOR—HORSEPOWER AS INDICATED

J JUNCTION, PULL, OR OUTLET BOX—IN OR ABOVE CEILING

J JUNCTION, PULL, OR OUTLET BOX—IN WALL

EQUIPMENT CONNECTION—COORDINATE WITH EQUIPMENT SUPPLIER FOR CONNECTION TO EQUIPMENT BY DIRECT CONNECTION OR CONNECTION TO OUTLET, RECEPTACLE OR DISCONNECT PROVIDED BY OTHER CONTRACTOR

MODIFIERS FOR BOXES/CONNECTIONS:

EF = FOR EXHAUST FAN
FH = FOR FUME HOOD
MD = FOR MOTORIZED DAMPER

COORDINATE EXACT LOCATION OF OUTLET BOX/CONNECTION POINT WITH EQUIPMENT PROVIDER/INSTALLER SUCH THAT IT IS LOCATED AT EQUIPMENT/CONNECTION LOCATION AND AS RECOMMENDED BY EQUIPMENT MANUFACTURER

BLANK OUTLET—4" SQ. X 2 1/8" D BOX WITH TWO GANG TRIM RING AND BUSH COVER—PROVIDE 1" C STUBBED OUT DIRECTLY IN FRONT OF OUTLET ABOVE ACCESSIBLE CEILING AND TERMINATED INTO A 4" SQ. X 2 1/8" BOX FOR FUTURE USE

COVER FOR POWER CONNECTION TO MODULAR OR LAB FURNITURE—4 11/16" SQ. X 2 1/8" D—PROVIDE STAINLESS STEEL COVER WITH KNOCKOUT SIZED FOR FLEX CONDUIT TO FEED FURNITURE—PROVIDE SPARE 3/4" CONDUIT TO ABOVE CEILING AND CAP—18" AFF—COORDINATE EXACT LOCATION WITH MODULAR OR LAB FURNITURE SUPPLIER AND INSTALLER SUCH THAT OUTLET IS LOCATED AT LOCATION SUITABLE TO SERVE FURNITURE

PANEL DESIGNATIONS

DOSH2A PANEL NAME

A,B,C = LOCATION
1,2,3 = FLOOR
H = 277/480 VOLT
L = 120/208 VOLT

OS = OPTIONAL STANDBY
NO LETTER DESIGNATES NORMAL BRANCH
D = DISTRIBUTION (USED WHERE APPLICABLE)

PANEL DESIGNATIONS ARE APPLICABLE TO NEW PANELS ONLY—ORIGINAL PANEL DESIGNATIONS MAY DIFFER

SURFACE RACEWAY SYSTEMS

SURFACE RACEWAY WITH POWER/DATA MULTIOUTLETS—TWO COMPARTMENT DIVIDED RACEWAY—PROVIDE OUTLETS AS INDICATED ON DRAWING—NUMBER AT RECEPTACLE INDICATES CIRCUIT NUMBER

NOTE THAT LARGER SYMBOLS SEPARATED FROM RACEWAY ARE NOT INSTALLED IN RACEWAY BUT ARE ABOVE OR BELOW RACEWAY

SURFACE RACEWAY AND FITTING DESIGNATION

'SR-PT4-WBC'

'WBC' INDICATES WALL BOX CONNECTOR FITTING
'EEF' INDICATES ENTRANCE END FITTING
'R' INDICATES VERTICAL RACEWAY RISER TO ABOVE CEILING AND TERMINATING IN AN ENTRANCE END FITTING

'6' INDICATES 4 3/4" x 3 9/16" RACEWAY
'4' INDICATES 4 3/4" x 1 3/4" RACEWAY
'3' INDICATES 2 3/4" x 1 17/32" RACEWAY

'P' INDICATES POWER ONLY RACEWAY
'T' INDICATES TELECOM ONLY RACEWAY
'PT' INDICATES COMBINATION POWER/TELECOM DIVIDED RACEWAY

POWER POLE—POLE SHALL BE ALUMINUM, NATURAL BRUSHED FINISH, DIVIDED TWO COMPARTMENT RACEWAY SYSTEM—POLE SHALL BE APPROXIMATELY 5" X 4 3/4", AND APPROPRIATE HEIGHT FROM FLOOR TO ABOVE FINISHED CEILING—PROVIDE DEVICES AS INDICATED—VERIFY EXACT REQUIRED HEIGHT AND PROVIDE CUSTOM HEIGHT WHERE REQUIRED—COORDINATE EXACT FINAL LOCATION WITH ARCHITECT & OWNER—WIREFOLD #NP800 OR APPROVED EQUAL

WIRING SYSTEM

WIRING SYSTEM—CONCEAL IN OR ABOVE CEILING, IN WALL, OR BELOW FLOOR UNO

BRANCH OR FEEDER CIRCUIT HOMERUN TO PANEL SWITCHBOARD, MOTOR CONTROL CENTER, ETC.—'EH2A' DESIGNATES EQUIPMENT '1' DESIGNATES POLE IN EQUIPMENT

SWITCHLEG OR SWITCHED WIRING CIRCUIT—WITH UNSWITCHED CIRCUIT AS REQUIRED—CONCEAL IN OR ABOVE CEILING, IN WALL, OR BELOW FLOOR UNO

SWITCHLEG OR SWITCHED CIRCUIT AND 0-10V CLASS 1 DIMMING CONTROL CIRCUITRY—WITH UNSWITCHED CIRCUIT AS REQUIRED—SEE LIGHTING PLANS AND RISERS/DETAILS FOR CIRCUITRY

SWITCHLEG OR SWITCHED CIRCUIT AND 0-10V CLASS 2 DIMMING CONTROL CIRCUITRY—WITH UNSWITCHED CIRCUIT AS REQUIRED—SEE LIGHTING PLANS AND RISERS/DETAILS FOR CIRCUITRY

DISCONNECT SWITCHES AND STARTERS

DISCONNECT SWITCH

ENCLOSED CIRCUIT BREAKER

S MOTOR SWITCH

MODIFIERS FOR MOTOR SWITCH:

MS = MANUAL MOTOR SENTINEL, WITH THERMAL OVERLOAD
MT = MANUAL MOTOR STARTING SWITCH
MD = MANUAL MOTOR CONTROL/DISCONNECT SWITCH

TELECOM SYSTEM

TELECOMMUNICATION OUTLET—18" AFF

TELECOMMUNICATION OUTLET—MOUNTED HIGH, SEE MOUNTING DETAILS FOR ACTUAL HEIGHT

TELECOMMUNICATION WIRELESS ACCESS POINT OUTLET—FLUSH IN CEILING—COORDINATE EXACT BACKBOX TYPE REQUIRED WITH TELECOM SYSTEM INSTALLER AND PROVIDE REQUIRED BOX

MODIFIERS FOR TELECOM OUTLETS:

CP = TELECOM CONNECTION TO CONTROL PANEL—CONTROL PANEL PROVIDED BY OTHERS—TELECOM SYSTEM INSTALLER SHALL PROVIDE A SMALL SURFACE MOUNT TWO PORT OUTLET (BISCUIT) IN CONTROL PANEL FOR DATA CONNECTION
EL = FOR ELEVATOR PHONE
WT = FOR WALL MOUNT TELEPHONE, MOUNT 48" AFF

COORDINATE EXACT LOCATION OF OUTLET WITH EQUIPMENT PROVIDER/INSTALLER SUCH THAT IT IS LOCATED AT EQUIPMENT/CONNECTION LOCATION AND AS RECOMMENDED BY EQUIPMENT MANUFACTURER

TELECOM OUTLET AS INDICATED IN CONCEALED SERVICE FLOOR BOX

OUTLET FOR TELECOM CONNECTION TO MODULAR FURNITURE—4 11/16" SQ. X 2 1/8" D—PROVIDE STAINLESS STEEL COVER WITH TWO 1 1/4" FLEX CONDUITS TO MODULAR FURNITURE FOR CABLE INSTALLATION—18" AFF—COORDINATE EXACT LOCATION WITH MODULAR FURNITURE SUPPLIER AND INSTALLER SUCH THAT OUTLET IS LOCATED AT LOCATION SUITABLE TO SERVE MODULAR FURNITURE

OUTLET FOR TELECOM CONNECTION TO MODULAR FURNITURE LOCATED ON SURFACE RACEWAY—PROVIDE TWO STAINLESS STEEL COVERS EACH WITH ONE 1 1/4" FLEX CONDUIT TO MODULAR FURNITURE FOR CABLE INSTALLATION—COORDINATE EXACT LOCATION WITH MODULAR FURNITURE SUPPLIER AND INSTALLER SUCH THAT OUTLET IS LOCATED AT LOCATION SUITABLE TO SERVE MODULAR FURNITURE

TELECOM OUTLET—PROVIDE ON EXISTING SURFACE RACEWAY—SEE PLANS FOR TYPE OF SURFACE RACEWAY—PROVIDE REQUIRED CABLE TO TELECOM CLOSET VIA EXISTING SURFACE RACEWAY AND CONDUIT PATH

FIRE ALARM SYSTEM

FIRE ALARM MANUAL PULL STATION

FIRE ALARM SMOKE DETECTOR—PHOTOELECTRIC TYPE

FIRE ALARM SMOKE DETECTOR—IONIZATION TYPE

FIRE ALARM DUCT MOUNTED SMOKE DETECTOR—PHOTOELECTRIC TYPE

FIRE ALARM THERMAL DETECTOR

FIRE ALARM STROBE LIGHT—MODIFIER INDICATES MINIMUM STROBE CANDELA

FIRE ALARM SPEAKER/STROBE LIGHT—MINIMUM STROBE CANDELA SHALL BE 15—MODIFIER INDICATES MINIMUM STROBE CANDELA IF GREATER THAN 15

FIRE ALARM SPEAKER/STROBE LIGHT—MINIMUM STROBE CANDELA SHALL BE 15—MODIFIER INDICATES MINIMUM STROBE CANDELA IF GREATER THAN 15

FIRE ALARM CHIME/STROBE LIGHT—MINIMUM STROBE CANDELA SHALL BE 15—MODIFIER INDICATES MINIMUM STROBE CANDELA IF GREATER THAN 15

FIRE ALARM HORN/STROBE LIGHT—CEILING MOUNTED—MINIMUM STROBE CANDELA SHALL BE 15—MODIFIER INDICATES MINIMUM STROBE CANDELA IF GREATER THAN 15

FIRE ALARM STROBE LIGHT—CEILING MOUNTED—MINIMUM STROBE CANDELA IF GREATER THAN 15

FIRE ALARM SPEAKER—CEILING MOUNTED

FIRE ALARM REMOTE ALARM INDICATING LIGHT WITH KEY TEST SWITCH

FIRE ALARM ACCESS CONTROL CONNECTION TO ACCESS CONTROL SYSTEM

FIRE ALARM EXHAUST FAN CONTROL CONNECTION TO HVAC SYSTEM

FIRE ALARM FLOW SWITCH CONNECTION TO SPRINKLER SYSTEM

FIRE ALARM TAMPERS SWITCH CONNECTION TO SPRINKLER SYSTEM

FIRE ALARM MAGNETIC DOOR HOLDER

FIRE ALARM ELEVATOR RECALL CONNECTION TO ELEVATOR CONTROLLER

FIRE ALARM AIR HANDLER SHUTDOWN CONNECTION TO HVAC CONTROLS

FIRE ALARM FIREFIGHTERS PHONE SET—44" AFF

FIRE ALARM FIREFIGHTERS PHONE JACK—44" AFF

FIRE ALARM SMOKE DAMPER CONNECTION

FIRE ALARM KITCHEN HOOD CONNECTION TO EXTINGUISHING SYSTEM

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E504	PANEL SCHEDULES



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SCALE: (NONE)

NOT TO SCALE

UNC SCHOOL OF MEDICINE
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