Large Private Office

Title 24 Part 6 2022 Compliant
Dimming with NX Distributed Intelligence

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRCFX2-1RD-UNV - NX Room Controller 1 relay on/off for receptacle or 0-10 volt dimming for lighting
NXSMDT-OMNI - NX Occupancy/Daylight Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360°, 2,000 Sq. Ft.
NXSW2-ORLO-WH - NX Digital Switch Station, On/Raise/Lower/Off, White

CODE REQUIREMENTS

130.1(a): Manual Area Controls
130.1(b): Multilevel Lighting Controls
     Table 130.1-A: Continuous Dimming 10-100 %
130.1(c): Shut -Off Controls
130.1(d): Automatic Daylight Responsive
130.1(e): Demand Response Controls Building > 4000 Watts
     110.12 (a): 1.B responding to signal from a certified Virtual End Node
130.1(f): Control Interactions
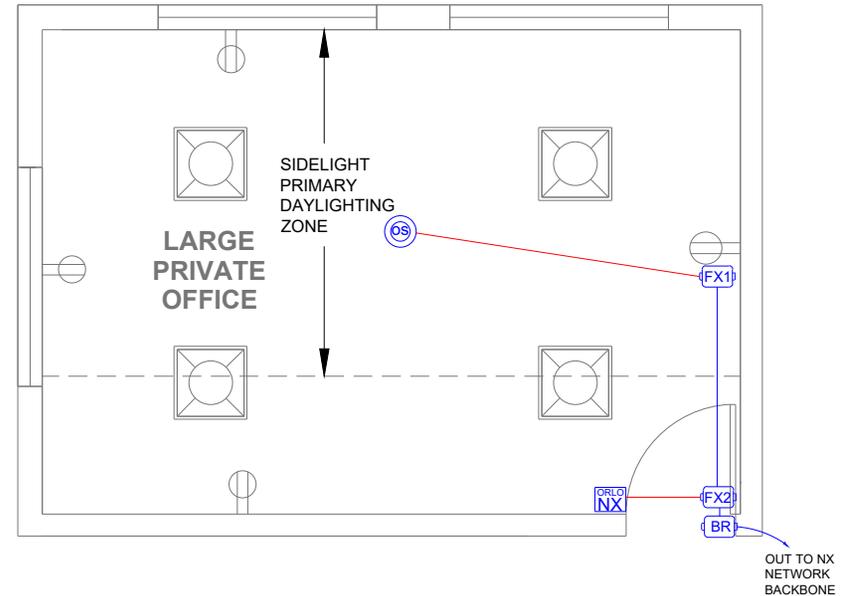130.5(d): Controlled Receptacles

SEQUENCE OF OPERATION

1. Lighting Partial On to 50% and controlled receptacles auto On when occupancy detected.
2. Manual On/Off/Dim lighting with dimmer switch.
3. Lighting in primary and secondary daylight zone will continuously dim based on daylight contribution to maintain a consistent task level.
4. Auto off all lighting and controlled receptacles within 20 minutes of occupants leaving.

DESIGN CONSIDERATIONS

- BMS Integration and Demand Response functions are enabled by using a NX bridge for connectivity.

- System Configuration Tools:
    Standalone rooms use the NX Lighting Controls APP
    Networked rooms NX Area Controller (NXAC)

QTY	SYMBOL LIST
1	BR NETWORK BRIDGE
1	FX1 ROOM CONTROLLER 1 RELAY
1	FX2 ROOM CONTROLLER 2 RELAYS
1	OS OCCUPANCY/DAYLIGHT SENSOR
1	ORLO NX SWITCH-ON/OFF/RAISE/LOWER

LARGE PRIVATE OFFICE

SIDELIGHT PRIMARY DAYLIGHTING ZONE

OUT TO NX NETWORK BACKBONE

REV:	QUOTE ID:	DATE:	BY:

Project Name: TITLE 24 PART 6 2022 Large Office Room

Current

PROJECT ID:
ISSUED BY:
ISSUE DATE:
DRAWING - CURRENT REVISION