

**CONTROLS NARRATIVE**

The Lighting Controls Narrative or Sequence of Operations can often be found in a Schedule on the Electrical Engineering Lighting plans. It can also be found in the specifications section on the plans that covers the Sequence of Operations.

If not provided, default programming will be implemented. Example below.

| LIGHTING CONTROLS NARRATIVE |   |               |            |                 |           |           |       |
|-----------------------------|---|---------------|------------|-----------------|-----------|-----------|-------|
| FLOOR                       | ROOM NAME   | LOCAL CONTROL | OCC SENSOR | DAYLIGHT SENSOR | EMERGENCY | TIMECLOCK | NOTES |
| BASEMENT + LEVEL 2          | ELEVATOR SHAFT  | LC1           | -          | -               | EM2       | -         |       |
| BASEMENT                    | BOILER RM 001<br>MECHANICAL RM 002                                | LC2           | OC2        | -               | EM2       | -         |       |
| BASEMENT                    | ELECTRICAL RM 003   | LC1           | -          | -               | EM2       | -         |       |
| LEVEL 1                     | NORTHEAST DINING B 129  | LC4           | -          | DL1             | EM2       | TC1       |       |
| LEVEL 1                     | SERVERY 124   | LC4           | -          | -               | EM1       | TC1       | ▲     |
| LEVEL 1                     | COFFEE BAR / GENERAL STORE 109                                    | LC4           | -          | -               | EM2       | TC1       |       |
| LEVEL 1                     | SOUTH EAST DINING A & B / 102 & 101                               | LC4           | -          | DL1             | EM2       | TC1       |       |
| LEVEL 1                     | ENTRY VESTIBULE 100 & 103   | LC5           | -          | -               | EM1       | TC1       |       |
| LEVEL 1                     | HALLWAY 104   | LC5           | -          | -               | EM1       | TC1       | ▲     |
| LEVEL 1                     | WOMEN'S RESTROOM 111 & MEN'S RESTROOM 109                         | LC6           | OC3        | -               | EM2       | -         |       |
| LEVEL 1                     | KITCHEN 121   | LC2           | OC2        | -               | EM2       | -         |       |
| LEVEL 1                     | MECHANICAL/STORAGE 110, STORAGE 128                               | LC2           | -          | -               | EM1       | -         |       |
| LEVEL 1                     | TELECOM 113, OFFICE 115, REST. 116, STOR. 124, JAN. 110, JAN. 127 | LC3           | OC1        | -               | -         | -         |       |
| LEVEL 2                     | ENTRY VESTIBULE 201   | LC5           | -          | -               | -         | TC1       |       |
| LEVEL 2                     | HALLWAY 200   | LC5           | -          | DL1             | -         | TC1       |       |
| LEVEL 2                     | BAR LOUNGE 214  | LC4           | -          | DL1             | EM1       | TC1       |       |
| LEVEL 2                     | DINING 212  | LC4           | -          | DL1             | EM1       | TC1       |       |
| LEVEL 2                     | PRIVATE DINING 213  | LC4           | -          | -               | -         | TC1       |       |
| LEVEL 2                     | KITCHEN 208   | LC2           | -          | -               | EM2       | ▲         |       |
| LEVEL 2                     | WOMEN'S RESTROOM 203/209 & MEN'S RESTROOM 202/210                 | -             | OC3        | -               | EM2       | -         |       |
| LEVEL 2                     | RESTROOM 207  | -             | -          | -               | -         | -         |       |
| LEVEL 2                     | RESTROOM 211, CLOSETS 212   | -             | OC1        | -               | -         | -         |       |
| EXTERIOR                    | REAR ENTRANCE   | -             | -          | -               | EM1       | TC2       |       |
| EXTERIOR                    | REAR ENTRANCE   | -             | LC4        | -               | -         | TC2       | ▲     |
| EXTERIOR                    | BACK OFFICE   | -             | -          | -               | EM2       | TC2       |       |

  

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| <p><b>LEGEND</b></p> <p><b>LOCAL CONTROLS</b><br/> LC1 = LOCAL ON/OFF SWITCH<br/> LC2 = LOW VOLTAGE SWITCH WITH VACANCY SENSOR OVERRIDE<br/> LC3 = LOCAL ON/OFF SWITCH WITH INTEGRATED VACANCY SENSOR<br/> LC4 = LV KEYPAD WITH SCENE CONTROL AND RAISE/LOWER<br/> LC5 = NO LOCAL CONTROL / CONTROL VIA MASTER OVERRIDE ONLY<br/> LC6 = VACANCY SENSOR / LOCAL KEYED OVERRIDE STATION<br/> LC7 = LOCAL DIMMER(S)</p> <p><b>OCCUPANCY SENSOR CONTROLS</b><br/> OC1 = ON VIA LOCAL SWITCH, AUTOMATIC OFF AFTER 15 MINUTES OF UNOCCUPIED SPACE<br/> OC2 = ON VIA LOCAL SWITCH, AUTOMATIC OFF AFTER 30 MINUTES OF UNOCCUPIED SPACE<br/> OC3 = AUTOMATIC OFF AFTER 30 MINUTES OF UNOCCUPIED SPACE WITH LOCAL KEYED OVERRIDE.</p> <p><b>EMERGENCY</b><br/> EM1 = EMERGENCY EGRESS LIGHTS WITH 'E' DESIGNATION TURN ON TO 100% UPON LOSS OF POWER VIA REMOTE MOUNTED INVERTER<br/> EM2 = EMERGENCY EGRESS LIGHTS WITH 'E' DESIGNATION TURN ON UPON LOSS OF POWER VIA BATTERY BACKUP</p> | <p><b>DAYLIGHTING CONTROLS</b><br/> DL1 = CONTINUOUS DIMMING DOWN TO LESS THAN 35% OF RATED POWER WHEN DAYLIGHT PROVIDES SETPOINT FC MEASUREMENT OF 30 FC AT FLOOR LEVEL. PROGRAM 1 MINUTE DELAY AS DAYLIGHT CONTRIBUTION CHANGES. WITH DAYLIGHT CONTRIBUTION DECREASE, RAMP UP AT 5% PER SECOND. WHEN DAYLIGHT CONTRIBUTION INCREASES, RAMP DOWN AT 20% PER SECOND. FIXTURES TO STOP DIMMING AT A SET POINT 20% RATED POWER. ▲</p> <p>DL2 = CONTINUOUS DIMMING DOWN TO LESS THAN 35% OF RATED POWER WHEN DAYLIGHT PROVIDES SETPOINT FC MEASUREMENT OF 10 FC AT FLOOR LEVEL. PROGRAM 1 MINUTE DELAY AS DAYLIGHT CONTRIBUTION CHANGES. WITH DAYLIGHT CONTRIBUTION DECREASE, RAMP UP AT 5% PER SECOND. WHEN DAYLIGHT CONTRIBUTION INCREASES, RAMP DOWN AT 20% PER SECOND. FIXTURES TO STOP DIMMING AT A SET POINT 20% RATED POWER. ▲</p> <p><b>TIMECLOCK / SCENE PROGRAMMING</b><br/> TC1 = INTERIOR 4-SCENE PRESET (7 DAYS/WEEK)<br/> 1. DAY: 90% - AT 6AM BEGIN DAY SCENE (3 MINUTE FADE)<br/> 2. DUSK: 75% - 30 MINUTES PRIOR TO SUNSET, BEGIN DUSK SCENE (30 MINUTE FADE)<br/> 3. NIGHT: 50% - 5 MINUTES AFTER SUNSET, BEGIN NIGHT SCENE (30 MINUTE FADE)<br/> 4. LATE NIGHT: 25% - AT 10PM BEGIN LATE NIGHT SCENE (15 MINUTE FADE) UNTIL 12AM. LIGHTS TO SHUT OFF AT 12AM AND REMAIN OFF UNTIL 6AM</p> <p>TC2 = EXTERIOR 3-SCENE PRESET (7 DAYS/WEEK)<br/> 1. DUSK: 75% - 30 MINUTES PRIOR TO SUNSET, BEGIN DUSK SCENE (3 MINUTE FADE)<br/> 2. EVENING: 50% - 5 MINUTES AFTER SUNSET, BEGIN EVENING SCENE (30 MINUTE FADE)<br/> 3. NIGHT: 25% - 10PM BEGIN NIGHT SCENE (30 MINUTE FADE) UNTIL 12AM. LIGHTS TO SHUT OFF AT 12AM AND REMAIN OFF UNTIL NEXT DAY SUNSET.</p> |
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