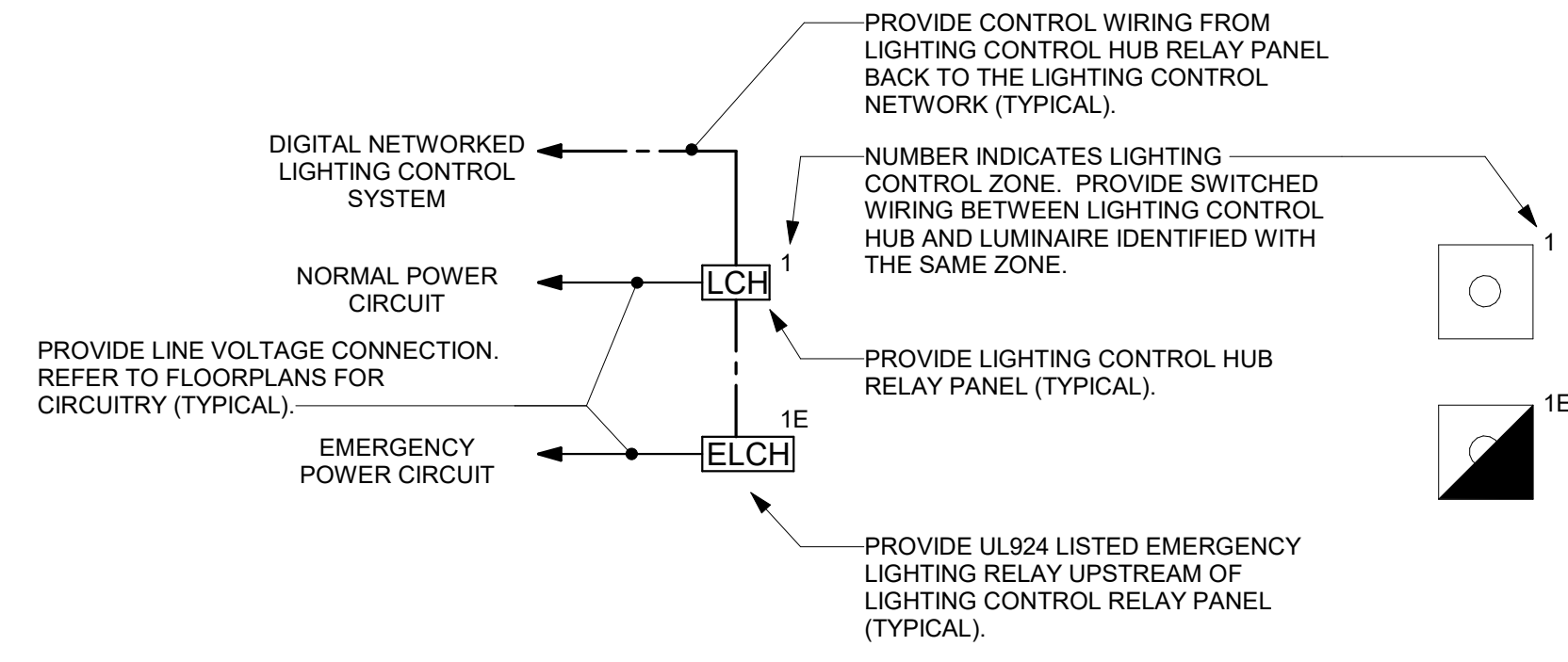


TYPICAL DIGITAL LOAD CONTROLLER LOCATION
NOT TO SCALE

GENERAL NOTES:

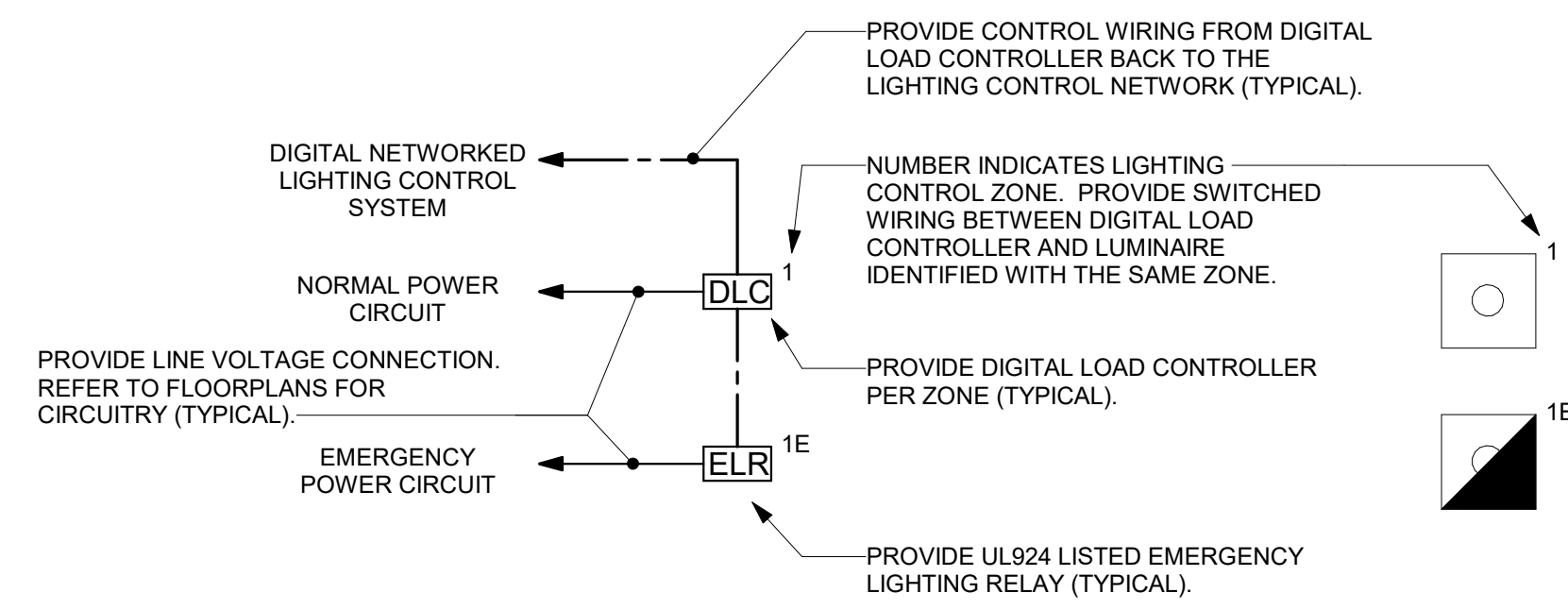
- THIS DETAIL APPLIES TO ALL LIGHTING CONTROL SPACES UTILIZING A DIGITAL LOAD CONTROLLER (DLC) UNLESS OTHERWISE NOTED. LOCATION IS SHOWN AS A BASIS OF DESIGN. REFER TO FLOOR PLANS FOR DIGITAL LOAD CONTROLLER QUANTITIES. VARIATIONS FROM THIS INTENT MAY BE REQUIRED AS PART OF THE COORDINATION PROCESS.
- VERIFY DIGITAL LOAD CONTROLLER REQUIRED CLEARANCES WITH MANUFACTURE.
- ACCESSIBLE CEILING CONDITIONS:
 - LOCATE DIGITAL LOAD CONTROLLER(S) 1' ABOVE THE CEILING CENTERED OVER THE DOORWAY.
- INACCESSIBLE CEILING CONDITIONS:
 - LOCATE DIGITAL LOAD CONTROLLER(S) 1' ABOVE THE CEILING CENTERED OVER THE DOORWAY IN ACCESSIBLE CORRIDORS. THIS CONDITION APPLIES WHEN ACCESSIBLE CEILINGS ARE LOCATED ADJACENT (WITHIN 20' OF THE ROOM) TO INACCESSIBLE CEILING LOCATIONS.
 - LOCATE DIGITAL LOAD CONTROLLER(S) 1' ABOVE THE CEILING CENTERED OVER THE DOORWAY WITH ACCESS PANEL. PROVIDE ACCESS PANEL IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. THIS CONDITION APPLIES WHEN ACCESSIBLE CEILINGS ARE NOT LOCATED WITHIN 20' OF THE ROOM.
- EXPOSED CEILING CONDITIONS:
 - LOCATED DIGITAL LOAD CONTROLLERS WITHIN NEMA ENCLOSURE MOUNTED IN ACCESSIBLE LOCATION. EXPOSED DIGITAL LOAD CONTROLLERS ARE NOT PERMITTED.



LIGHTING CONTROL HUB ZONE DETAIL
SEQUENCE OF OPERATIONS

GENERAL NOTES:

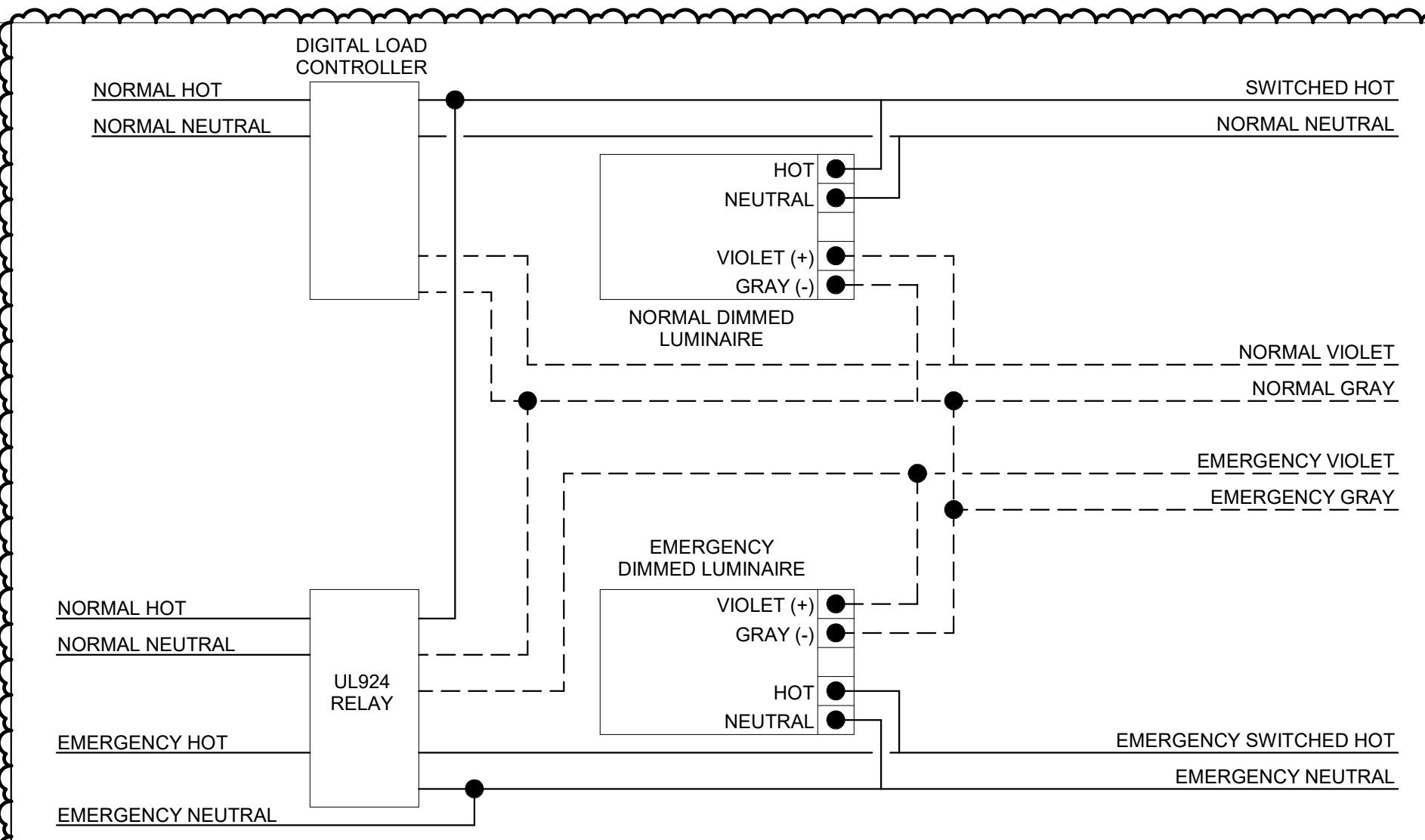
- THIS DETAIL APPLIES TO THE FOLLOWING LIGHTING CONTROL AREAS:
 - STAIRWELLS
 - EXTERIOR/SITE
 - CORRIDOR
- LIGHTING CONTROL ZONE NUMBER IS FOR EACH LIGHTING CONTROL HUB RELAY PANEL. IE: ZONE 3 ON LCH4S.
- WHEN TWO ZONES ARE PRESENT (IE: 1,2) ON A DIRECT / INDIRECT LUMINAIRE, THE FIRST ZONE REPRESENTS THE DIRECT DRIVER AND THE SECOND ZONE REPRESENTS THE INDIRECT DRIVER.



LIGHTING CONTROL ZONE DETAIL
SEQUENCE OF OPERATIONS

GENERAL NOTES:

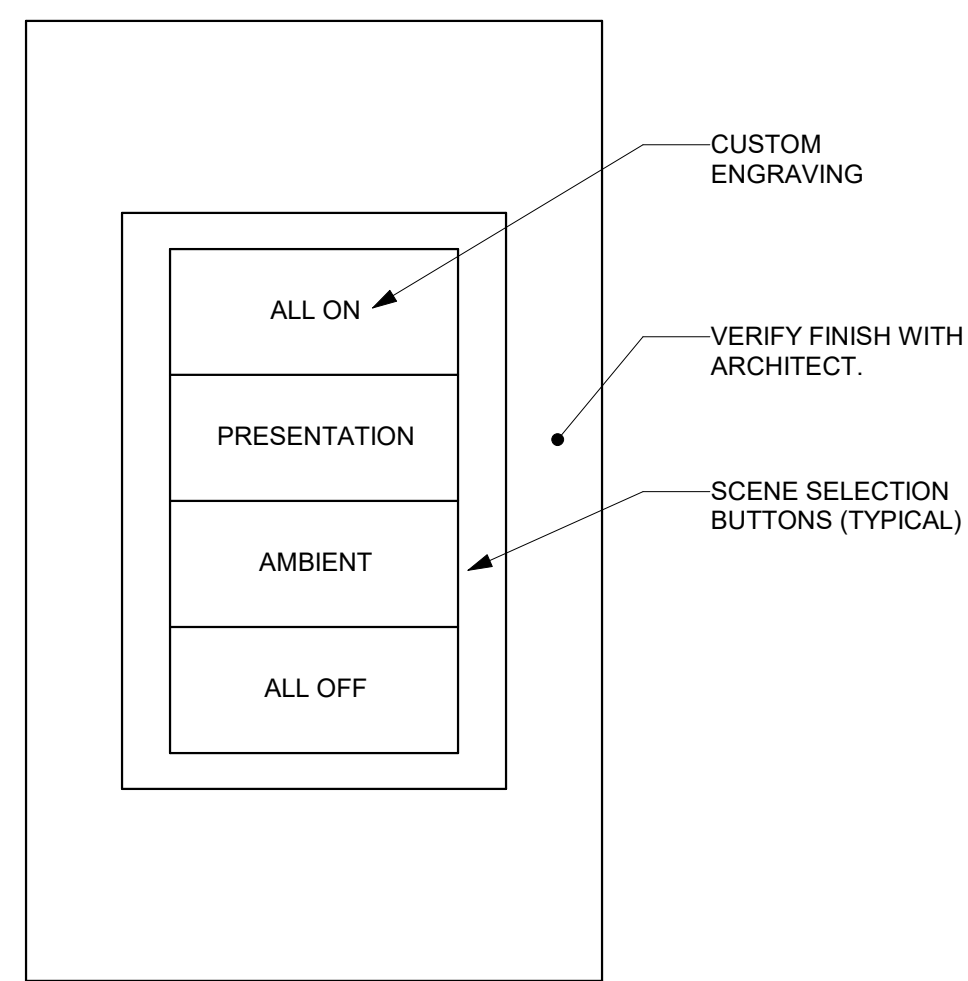
- LIGHTING CONTROL ZONE NUMBER RESTARTS AT 1 IN EVERY ROOM.
- WHEN TWO ZONES ARE PRESENT (IE: 1,2) ON A DIRECT / INDIRECT LUMINAIRE, THE FIRST ZONE REPRESENTS THE DIRECT DRIVER AND THE SECOND ZONE REPRESENTS THE INDIRECT DRIVER.



UL924 EMERGENCY LIGHTING DETAIL
NOT TO SCALE

NOTES:

- BASES OF DESIGN IS THE LVS 'EPC-1-0' SERIES. VERIFY ALL WIRING WITH SUBMITTED UL924 MANUFACTURER.
- THE FOLLOWING DETAIL APPLIES TO EXTERNAL UL924 RELAYS WHEN USED IN CONJUNCTION WITH DIGITAL LOAD CONTROLLERS.
- DIGITAL LOAD CONTROLLERS WITH INTEGRAL UL924 RELAY



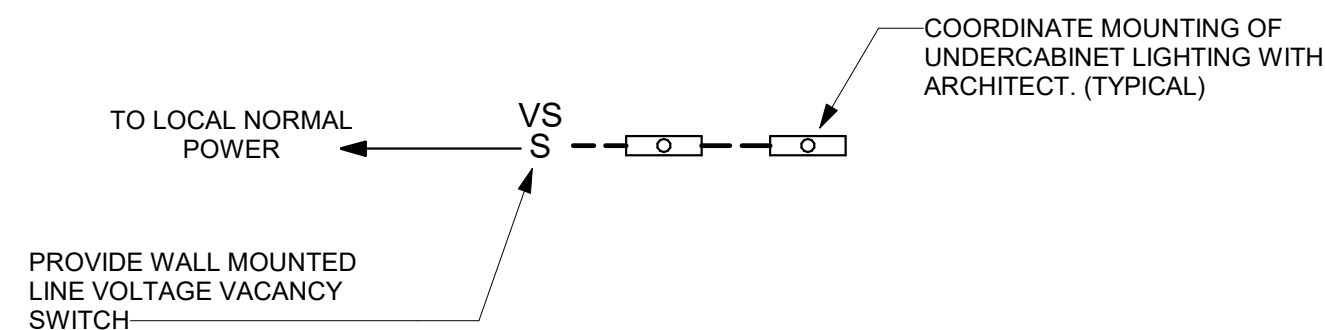
TYPICAL SCENE CONTROLLER DETAIL
NOT TO SCALE

GENERAL NOTES:

- NAMING CONVENTION TO BE VERIFIED WITH OWNER DURING SUBMITTAL PROCESS.
- FINAL SELECTION OF WHICH LUMINAIRE ARE CONTROLLED BY WHICH SCENE WILL BE PROVIDED IN FIELD BY OWNER AND DESIGN TEAM.

SCENES INITIAL PROGRAMMING:

- ALL ON - TURN ALL ZONES ON
- PRESENTATION - TURN OFF ZONES CLOSEST TO MONITOR
- AMBIENT - DIM ALL ZONES TO 50%
- ALL OFF - TURN ALL ZONES OFF



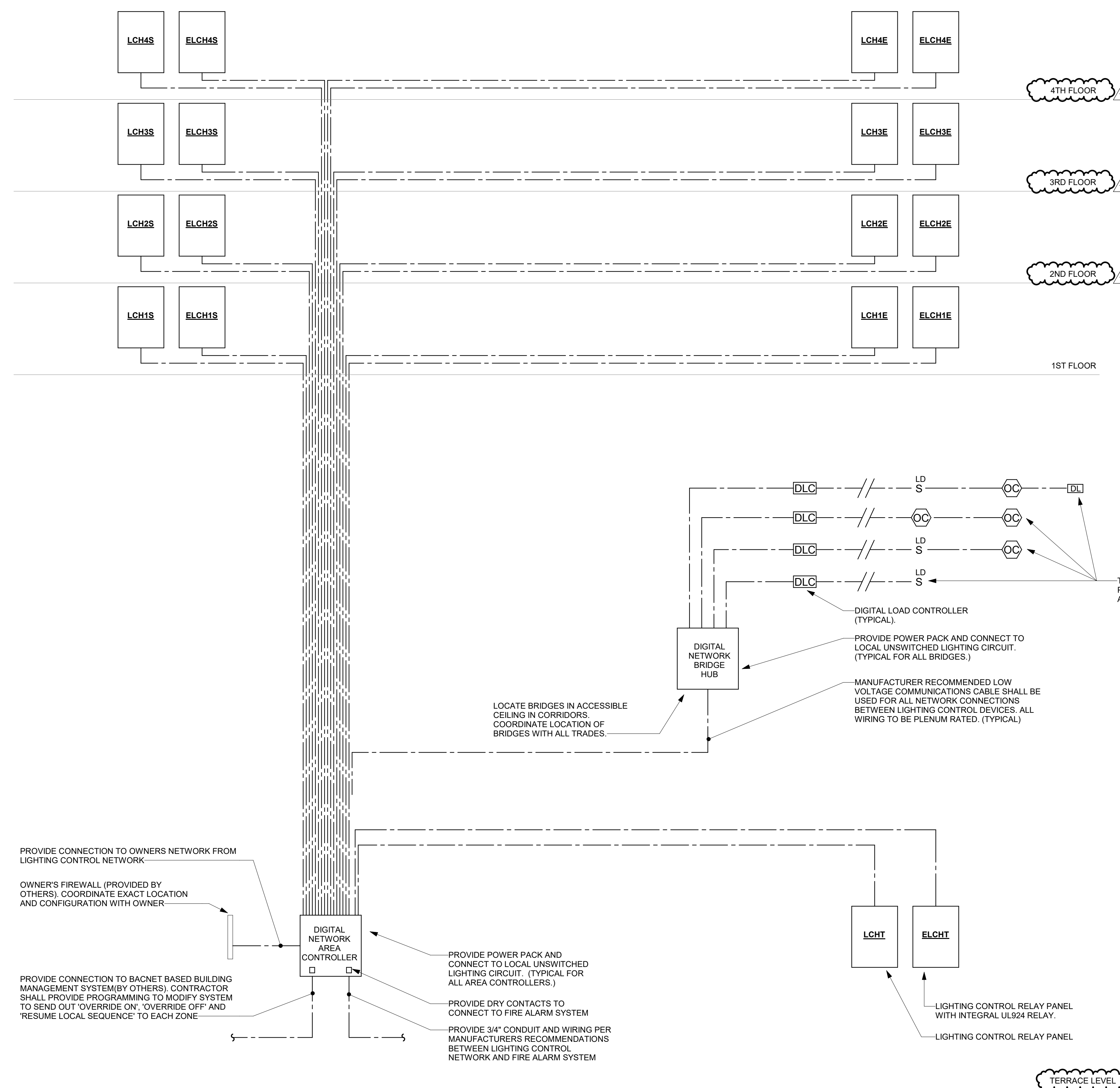
TYPICAL UNDERCABINET CONTROLS
SEQUENCE OF OPERATIONS

NORMAL OPERATION

- ALL FIXTURE(S) TO TURN ON WHEN LINE VOLTAGE SWITCH IS ACTIVATED WHILE LIGHTS ARE OFF.
- ALL FIXTURE(S) TO TURN OFF WHEN LINE VOLTAGE SWITCH IS ACTIVATED WHILE LIGHTS ARE ON OR WHEN VACANCY SENSOR TIMES OUT.

SWITCHING

- PROVIDE LINE VOLTAGE (2) BUTTON WALL STATION, ON, OFF BUTTONS.



DIGITAL NETWORK LIGHTING CONTROLS RISER PARTIAL DIAGRAM
NOT TO SCALE

GENERAL NOTES

- THE LIGHTING CONTROL NETWORK ARCHITECTURE IS DIAGRAMMATIC PURPOSES ONLY AND SHOULD BE REPEATED AS REQUIRED TO PROVIDE THE FINAL BUILDING FIT OUT.
- PROVIDE CONTROL WIRING IS TO BE PER MANUFACTURER RECOMMENDATIONS AND BE PLENUM RATED.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PRIOR TO SHOP DRAWING PROCESS, ELECTRICAL CONTRACTOR TO MEET WITH GENERAL CONTRACTOR, ENGINEER, AND BMS CONTRACTOR TO COORDINATE LIGHTING CONTROL NETWORK AND BMS NETWORK INTERFACE REQUIREMENTS.

LIGHTING CONTROL NETWORK GENERAL NOTES

- THE DETAILS ON THESE SHEETS ARE INTENDED SOLELY TO REPRESENT THE CONTROL SCHEME OF EACH DETAILED ROOM OR AREA, AND ARE NOT EXACT WIRING AND/OR COMPONENT DIAGRAMS. IN ALL INSTANCES, THE MANUFACTURER AND CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE SYSTEM OF WIRING AND DEVICES TO ACCOMPLISH A COMPLETE LIGHTING CONTROL SYSTEM FOR THE INTENDED SEQUENCE OF OPERATIONS.
- ALL CONTROL SCHEMES REPRESENTED HERE NEED TO BE CONFIRMED BY THE PROPOSED MANUFACTURER AS BEING READILY IMPLEMENTABLE WITH THEIR PRODUCT.
- EXACT QUANTITY OF LUMINAIRES, LUMINAIRE TYPES, NUMBER OF ZONES, AND LIGHTING CONTROL DEVICES ARE NOT INTENDED TO MATCH THOSE SHOWN ON THE FLOOR PLANS. FLOOR PLANS SHOULD BE USED IN CONJUNCTION WITH THE CORRESPONDING DETAIL FOR THIS SPECIFIC INFORMATION.
- THE 'DLC' AND 'LCH' SYMBOL IS A GRAPHIC REPRESENTATION OF ALL NECESSARY COMPONENTS (CONTRACTOR TO COORDINATE WITH LISTED MANUFACTURER'S THE EXACT COMPONENTS) REQUIRED TO PERFORM THE DESIRED FUNCTION SHOWN WITHIN EACH DETAIL.
- TIME PERIODS THAT THE BUILDING IS CONSIDERED OCCUPIED OR UNOCCUPIED ARE TO BE DETERMINED BY THE BMS SYSTEM.
- CONNECT TO BMS SYSTEM VIA 'BACNET' PROTOCOL TO PROVIDE SEAMLESS COMMUNICATION BETWEEN BMS AND LIGHTING CONTROL SYSTEM.
- ALL EMERGENCY LUMINAIRES ARE TO BE CONTROLLED THE SAME AS NORMAL LUMINAIRES IN NORMAL OPERATION. REFER TO SPECIFIC DETAIL FOR EMERGENCY OPERATIONS.
- TIMEOUTS AND DIMMING PERCENTAGES ARE BASIS OF DESIGN ONLY. THESE VALUES ARE TO BE FIELD ADJUSTED TO OWNER GIVEN REQUIREMENTS.
- PROVIDE TWO SEPARATE PRE OCCUPANCY 8 HOUR DAYS FOR TRAINING FACILITY PERSONAL. PROVIDE MANUFACTURER PROGRAMMING FOR EACH SPACE, SCHEDULE AND BMS INTERFACE FOR INITIAL SET-UP AND TWO SEPARATE POST OCCUPANCY 8 HOUR AFTER HOUR DAYS. THIS IS TO INCLUDE FULL SYSTEM RE-PROGRAMMING, TRAINING VISITS AND DEVICE SENSITIVITY ADJUSTMENTS.
- PROVIDE FLOORPLANS OF ALL OCCUPANCY/VACANCY SENSOR, CONTROL DEVICES AND CONNECTIONS TO BMS. FLOORPLANS TO INCLUDE SPECIFIC DEVICE NAMING INCORPORATING LOCATIONS, FLOOR AND ROOM NUMBERS. CONTRACTOR TO ADJUST PLACEMENT BASED ON FIELD CONDITIONS, IE: PROPER DISTANCE FROM HVAC DIFFUSERS. PROVIDE UPDATED FLOORPLANS AND PROGRAMMING TO OWNER UPON COMPLETION OF INSTALLATION.
- ALL LIGHTING ZONES SHALL HAVE HIGH AND LOW END TRIM DIMMING CAPABILITIES UNLESS SPECIFICALLY NOTED OTHERWISE AND EACH SPACE/ZONE SHALL BE ADJUSTED TO ITS SPECIFIC CONDITIONS.
- ALL OCCUPANCY AND VACANCY SENSORS SHALL HAVE AUXILIARY CONTACTS FOR OUTPUT TO MECHANICAL SYSTEMS.
- LIGHTING CONTROL DEVICES LOCATIONS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. COORDINATE WITH REFLECTED CEILING PLANS, AND OTHER TRADES TO LOCATE ALL LIGHTING CONTROL DEVICES IN AN ACCESSIBLE LOCATION.

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