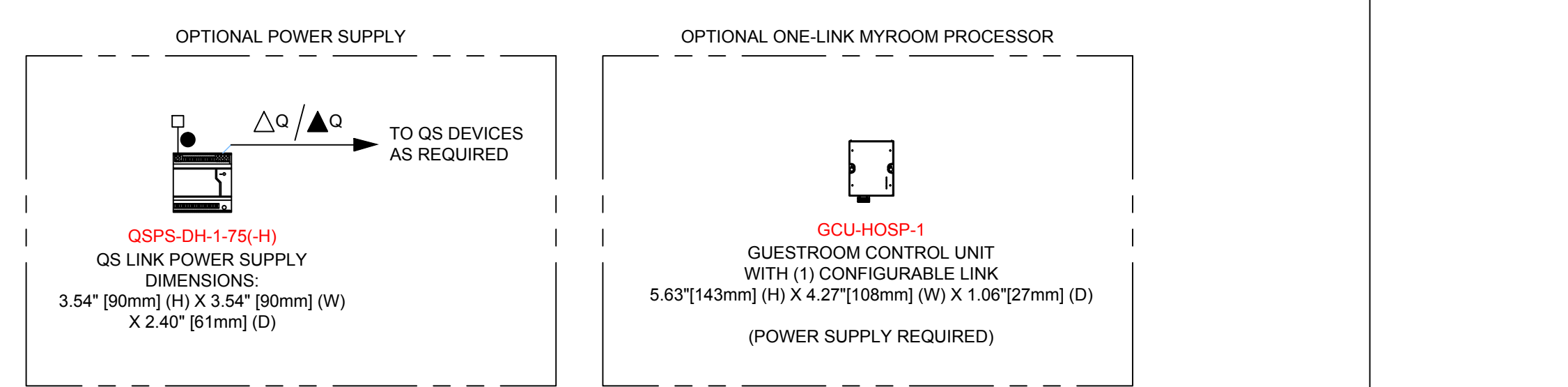
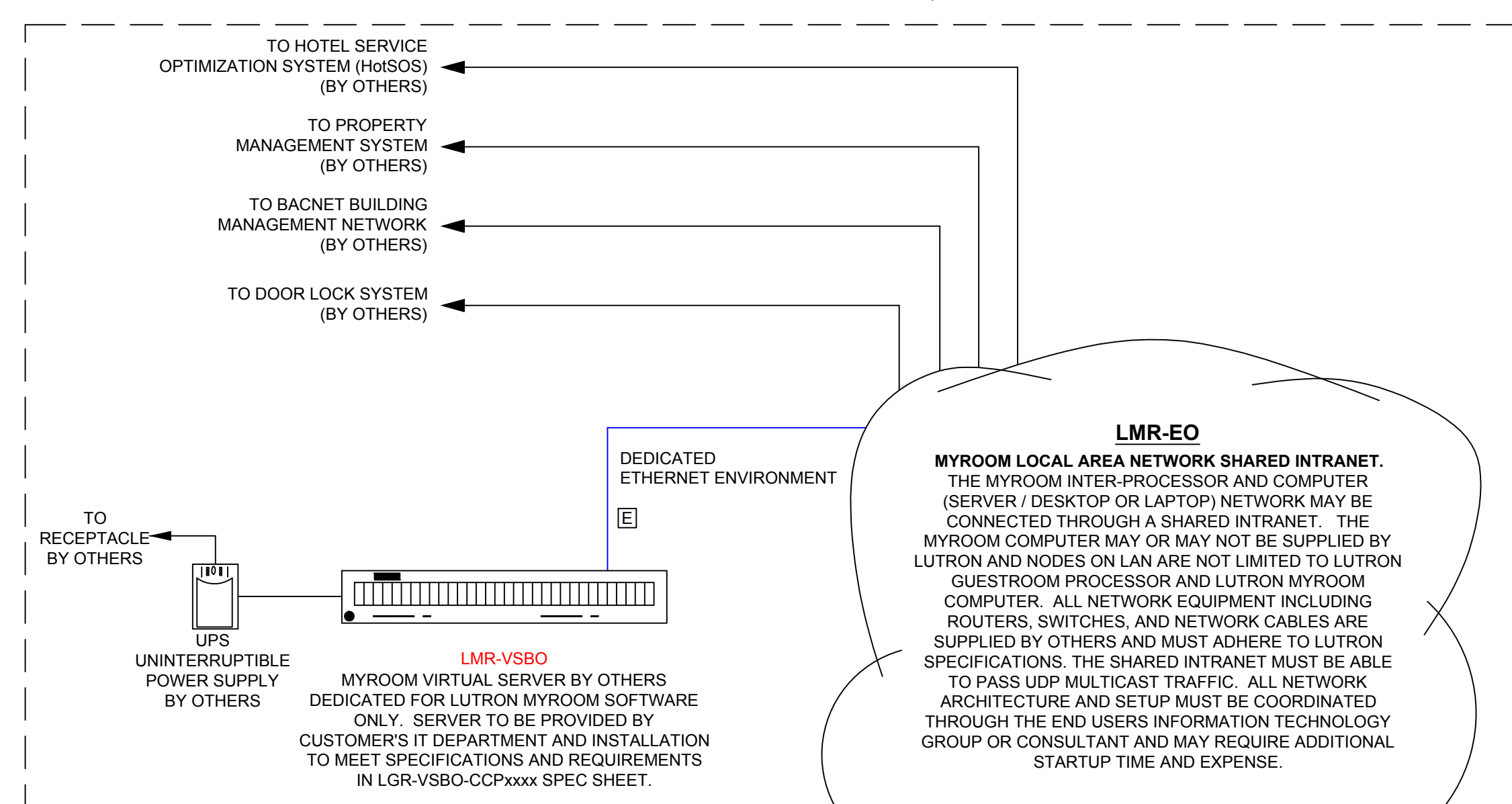
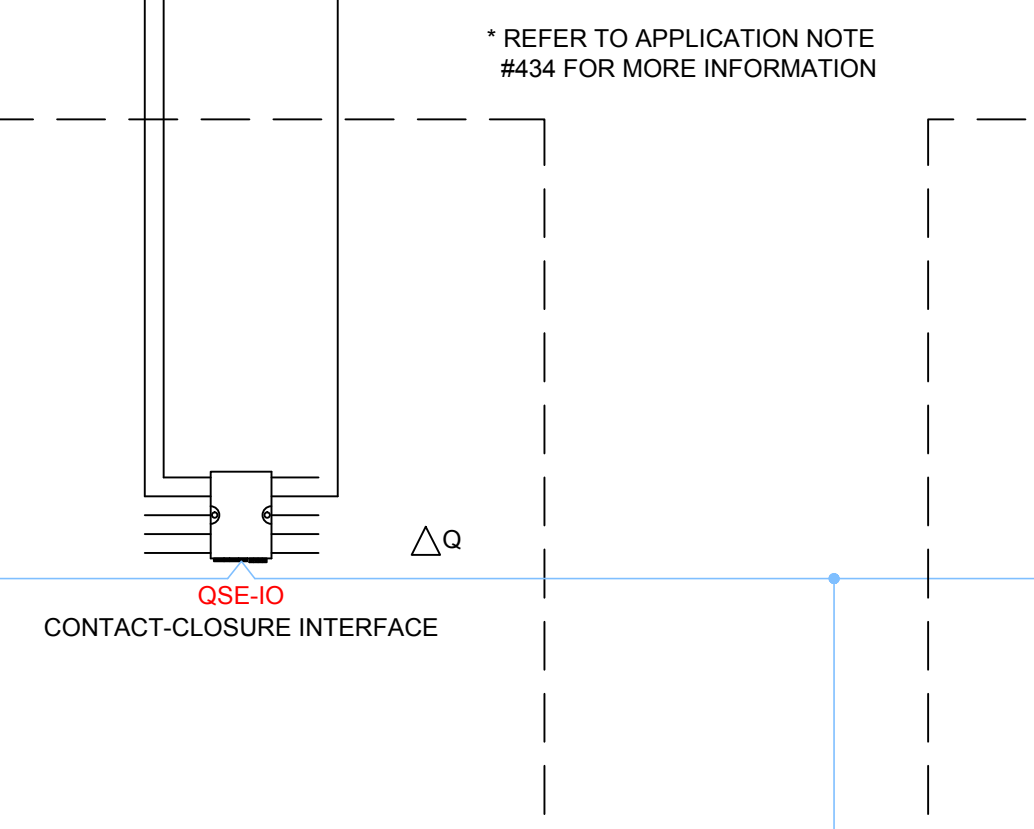
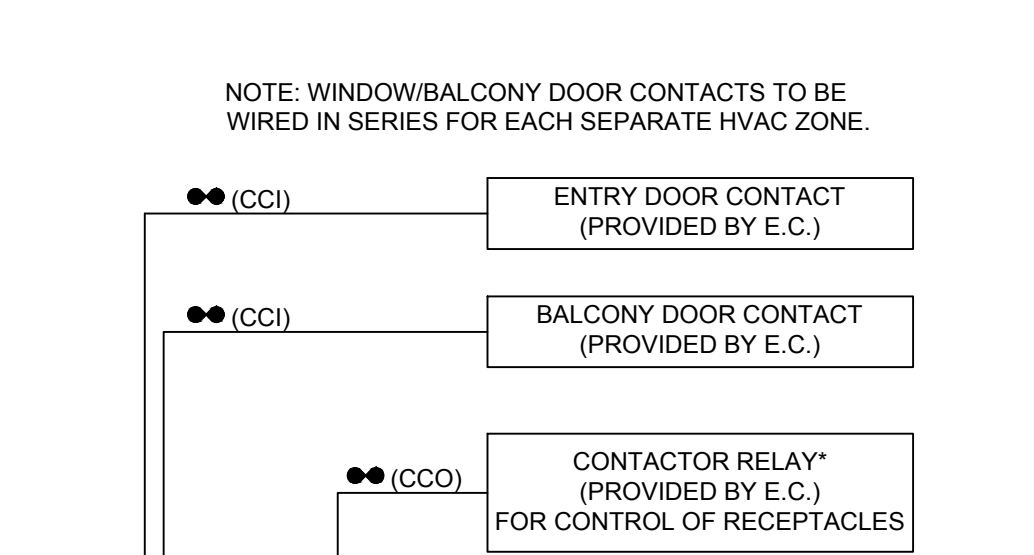
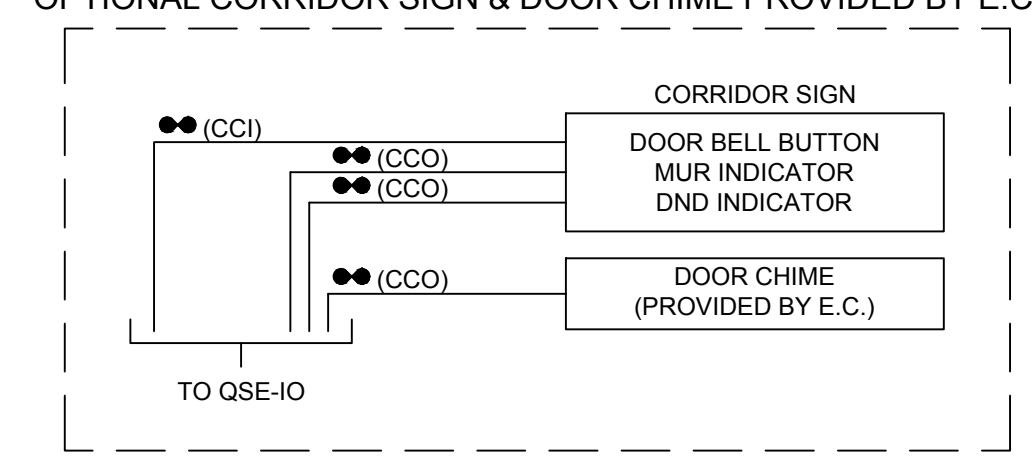


**EQUIPMENT REQUIRED FOR INTEGRATION WITH HOTEL SYSTEMS**  
**ONE MYROOM DEDICATED SERVER REQUIRED PER PROJECT**



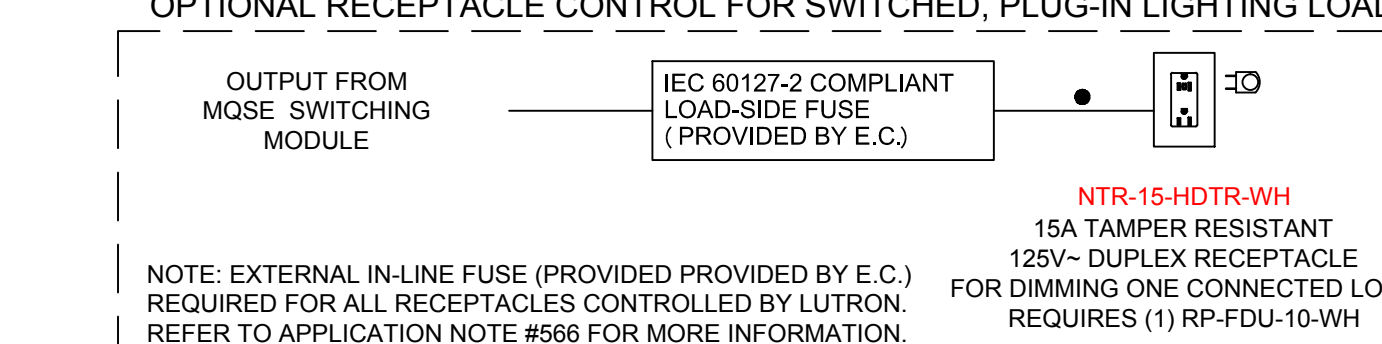
**OPTIONAL CORRIDOR SIGN & DOOR CHIME PROVIDED BY E.C.**



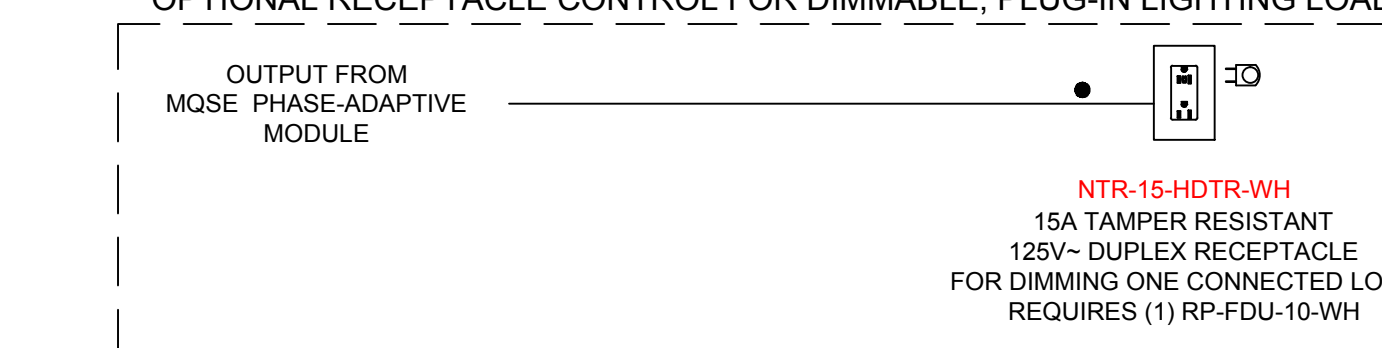
**LOW VOLTAGE COMPONENTS**

ENCLOSURE BY LUTRON OR E.C. - FOR LUTRON ENCLOSURE OPTION, SEE LV116-120 SPEC SUBMITTAL SHEET FOR ADDITIONAL INFORMATION.

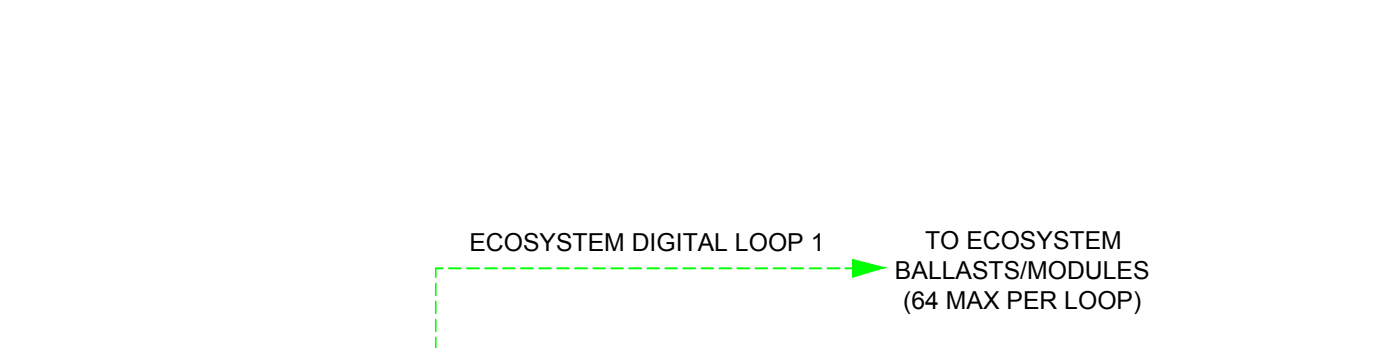
**OPTIONAL RECEPTACLE CONTROL FOR SWITCHED, PLUG-IN LIGHTING LOADS**



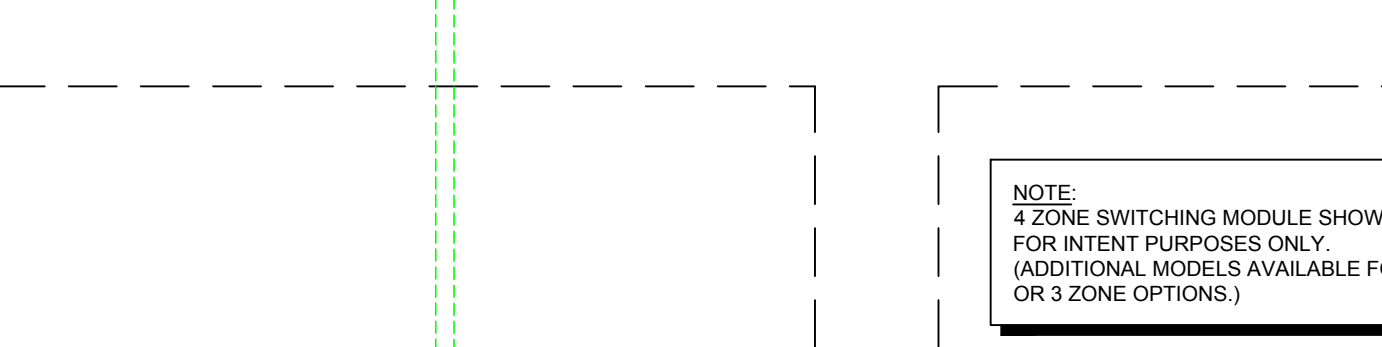
**OPTIONAL RECEPTACLE CONTROL FOR DIMMABLE, PLUG-IN LIGHTING LOADS**



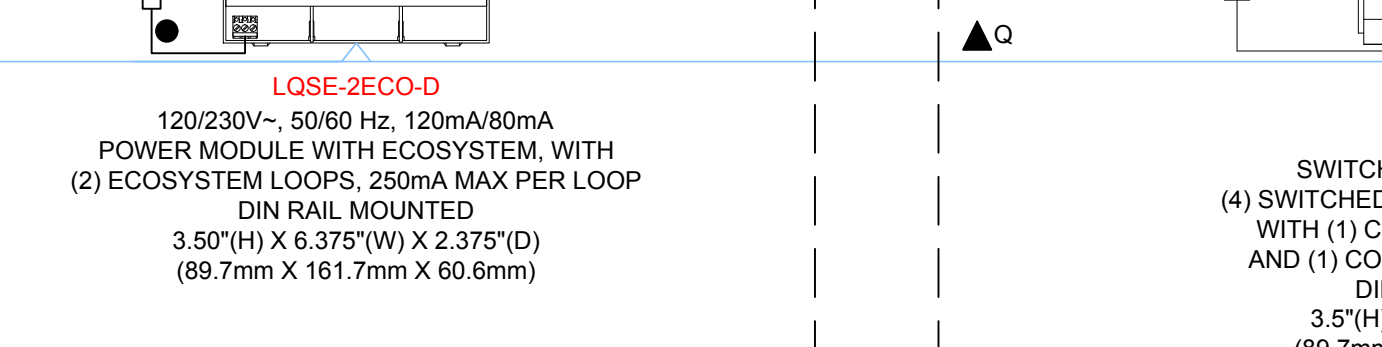
**OPTIONAL INTERFACE FOR HIGH WATTAGE, NON-DIM LOADS**



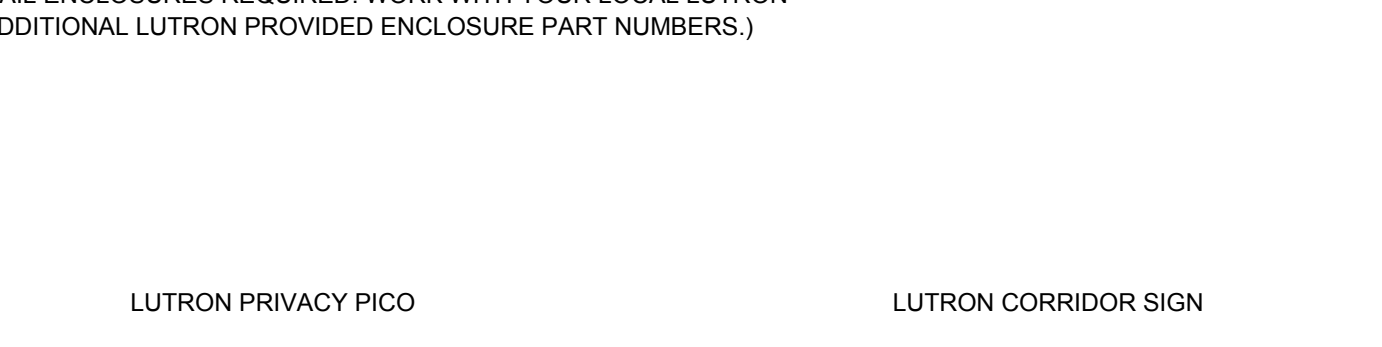
**OPTIONAL INTERFACE FOR HIGH WATTAGE, DIMMABLE LOADS**



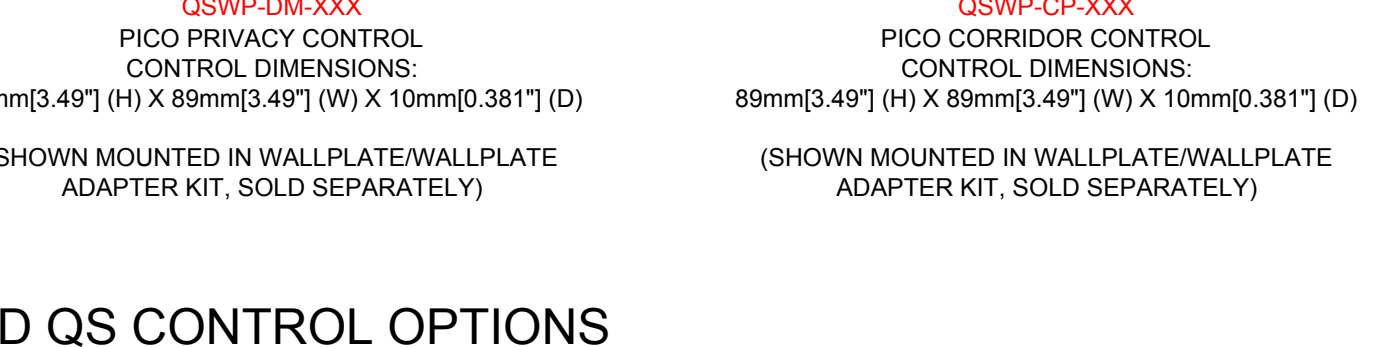
**OPTIONAL INTERFACE FOR 0-10V DIMMING**



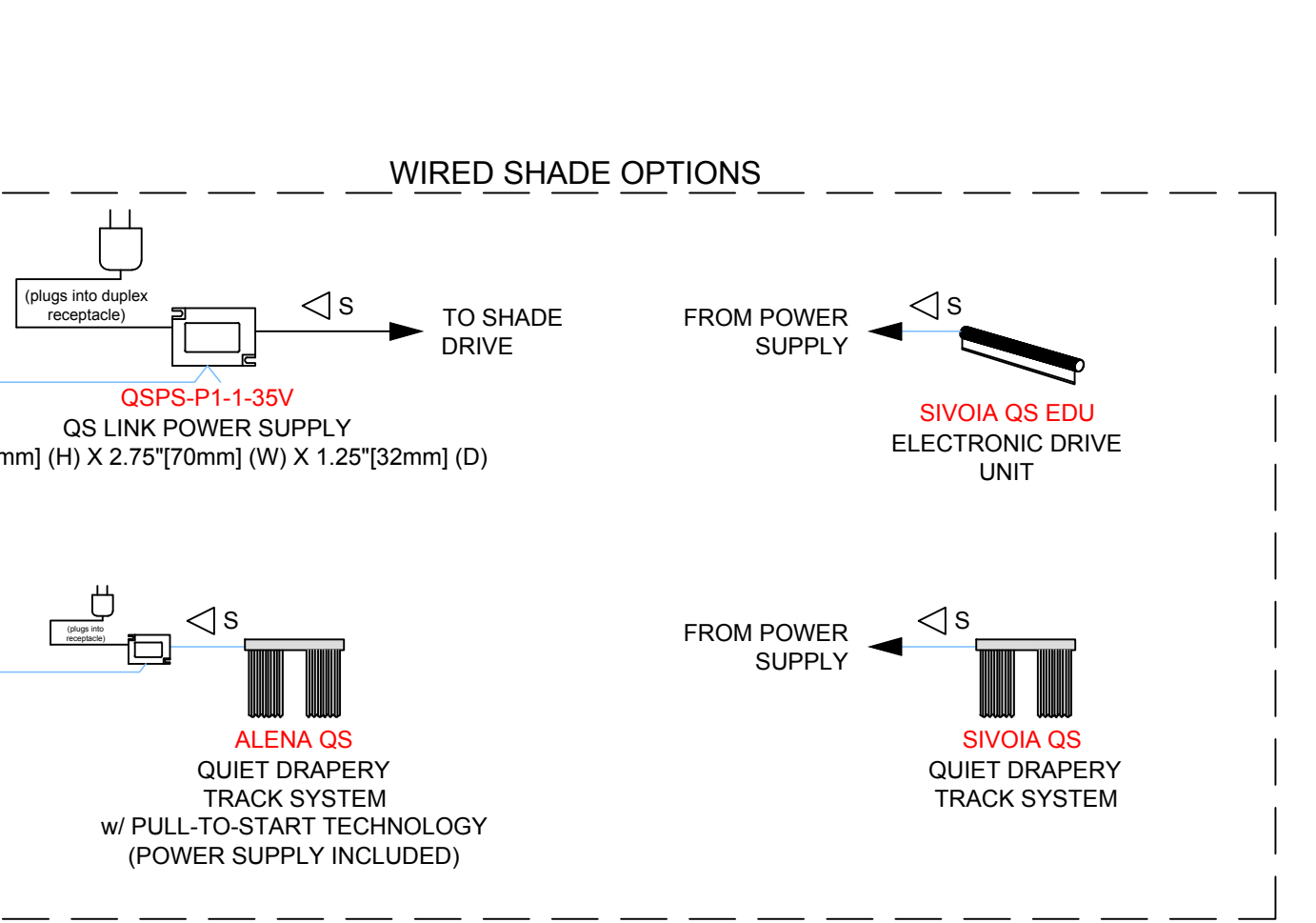
**ECOSYSTEM DIMMING MODULES**



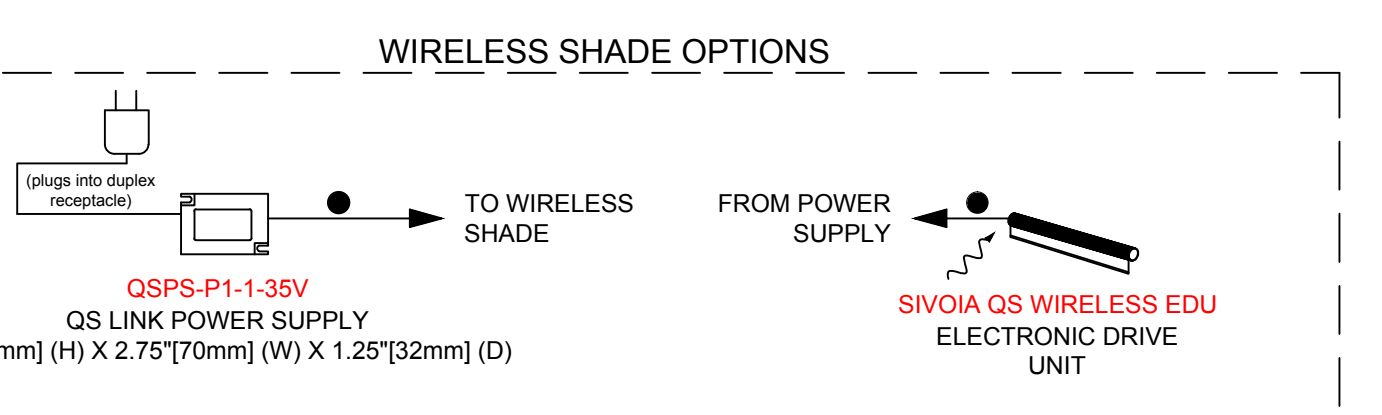
**DIN-RAIL POWER MODULES**



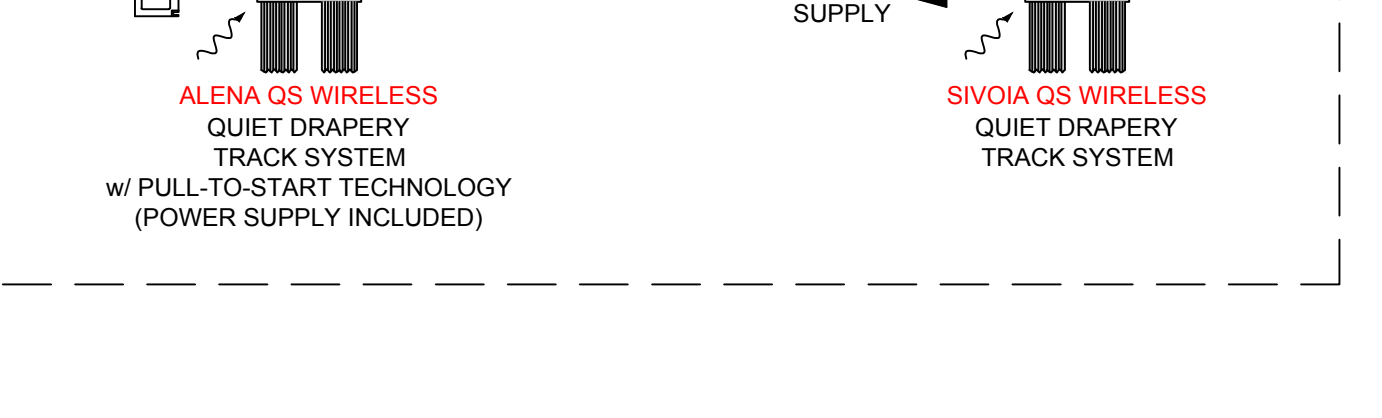
**WIRED QS CONTROL OPTIONS**



**WIRED SHADE OPTIONS**



**WIRELESS SHADE OPTIONS**



**SHADE OPTIONS**

CONCEPT DRAWING NOTES:  
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHT/ELECTRICAL, REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

**OPTIONAL SOFTWARE LICENSES**

- LMR-OPERA-PR - MICROS OPERA LICENSE**  
- LICENSE FOR INTEGRATION WITH MICROS OPERA PROPERTY MANAGEMENT SYSTEM (PMS).  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-INFOR-PR - INFOR LICENSE**  
- LICENSE FOR INTEGRATION WITH INFOR PROPERTY MANAGEMENT SYSTEM (PMS).  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-HLTPMS-PR - HILTON HOTEL PMS LICENSE**  
- LICENSE FOR INTEGRATION WITH HILTON HOTEL PROPERTY MANAGEMENT SYSTEM (PMS).  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-PROTEL-PR - PROTEL LICENSE**  
- LICENSE FOR INTEGRATION WITH PROTEL PROPERTY MANAGEMENT SYSTEM (PMS).  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-BAC-PR - BACNET SOFTWARE LICENSE**  
- LICENSE FOR BACNET ENABLES A THIRD-PARTY BUILDING MANAGEMENT SYSTEM TO CONTROL, MONITOR, AND MANAGE LIGHTS, SHADES, DEVICES, AND HVAC.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-HOTOS-PR - HOTOS/REX SOFTWARE LICENSE**  
- LICENSE FOR HOTOS/REX INTEGRATION ENABLES MYROOM PLUS SYSTEM TO POST ROOM STATUS UPDATES TO A HOTOS/REX ENVIRONMENT, INCLUDING OCCUPANCY STATE & DND/MUR STATES.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-MYRAVE-PR - MYROOM VUE SOFTWARE LICENSE**  
- LICENSE FOR MYROOM VUE SOFTWARE.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-SAFLOK-PR - KABA SAFLOK DOOR LOCK LICENSE**  
- LICENSE FOR INTEGRATION WITH SAFLOK MESSENGER LENS ONLINE DOOR LOCK SYSTEM.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-SALTO-PR - SALTO SYSTEMS DOOR LOCK LICENSE**  
- LICENSE FOR INTEGRATION WITH SALTO ONLINE DOOR LOCK SYSTEM. COMPATIBLE WITH SALTO PROCESS SPACE, SALTO HANS, OR SALTO PRO ACCESS SOFTWARE VIA THE SAL TO EVENTSTREAM INTERFACE.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.
- LMR-VINGCARD-PR - VINGCARD DOOR LOCK LICENSE**  
- LICENSE FOR INTEGRATION WITH VINGCARD VISIONLINE ONLINE DOOR LOCK SYSTEM.  
- ONE LICENSE REQUIRED FOR EACH GUEST ROOM.



**WIRING LEGEND:**

- △ QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
  - ▲ QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE #2)
  - ▲ RF CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE #2)
  - ▲ THERMOSTAT CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE #2)
- WIRING AS REQUIRED BY CONTROL LINK LENGTH (△ & ▲) & REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES:

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE
LESS THAN 500' (153 m)	POWER (TERMINALS 1&2) 1 PAIR 18 AWG (1.0 mm) DATA (TERMINALS 3&4) 1 PAIR 22 AWG (0.5 mm), TWISTED AND SHIELDED	GRX-CBL-3465 OR GRX-PCL-3465
500' (153 m) TO 2,000' (609 m)	POWER (TERMINALS 1&2) 1 PAIR 18 AWG (1.0 mm) DATA (TERMINALS 3&4) 1 PAIR 22 AWG (0.5 mm), TWISTED AND SHIELDED	GRX-CBL-465 OR GRX-PCL-465

\*ALTERNATE DATA-ONLY CABLE. USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm]) TWISTED/SHEATHED FROM BELDEN (MODEL # 9461).

\*\*TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 (609 m).

**WIRING NOTES:**

- MYROOM PLUS QS LINK RULES**  
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:
  - 40 QS LINKS MAXIMUM
  - 80 DS DEVICES PER QS LINK
  - 50 ZONES PER LINK AND 100 SWITCHLESS PER LINK. SWITCH LESS ARE THE SMALLEST CONTROLLABLE OUTPUTS AND INCLUDE:
    - DIMMED OR SWITCHLESS CIRCUITS
    - DIGITALLY ADDRESSABLE DEVICES (BALLASTS, DRIVERS, AND INTERFACES)
    - A SINGLE DAK CHANNEL
  - 50 OCCUPANCY SENSORS, 50 WALL CONTACTS (PICO, QS KEYPAD, ETC) PER QS LINK
  - QS LINK IS TOPOLOGY FREE (CAN BE DASH-CHAINED, 1-TAPPED, STARRED, ETC.)
  - MAXIMUM LINK RUN OF 2000 FT (610 M), USING 12 AWG (4.0 MM2) WIRES FOR POWER PAIR
- WIRELESS LINK RULES**  
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:
  - 4 WIRELESS LINKS MAXIMUM
  - 4 REPEATERS PER WIRELESS LINK
  - 80 DEVICES PER WIRELESS LINK
  - 100 SWITCHLESS PER WIRELESS LINK
  - 2500 FTZ (762 M) COVERAGE PER REPEATER
  - 50 FT (15 M) FROM ANY NON-REPEATER TO REPEATER
  - 60 FT (18 M) BETWEEN REPEATERS
  - DASH CHAIN WIRE RUN BETWEEN PROCESSOR AND/OR REPEATERS CANNOT EXCEED 1000 FT (305 M)
  - REPEATERS CAN BE WIRED TOGETHER, BUT MUST BE DASH-CHAINED.
- ECOSYSTEM BUS/LOOP RULES**  
THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:
  - THIS IS TOPOLOGY FREE AND POLARITY FREE WIRING (IT TAP, HOME RUN, ETC. IS OK)
  - KEEP ALL THE BALLAST/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE.
  - ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS IF THERE IS A DISCREPANCY AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
  - UP TO 16 BALLASTS/MODULES PER ECOSYSTEM LOOP
- QUALIFICATIONS OF GUESTROOM CONTROLS PROVIDER**  
SUCCESSFUL DELIVERY OF THE GUESTROOM CONTROL SYSTEM REQUIRES IN-DEPTH TECHNICAL TRAINING AND SIGNIFICANT COORDINATION AMONG THE MULTIPLE VENDORS PROVIDING HOTEL SYSTEMS THAT INTERACT WITH THE GUESTROOM CONTROL SYSTEM. THIS INCLUDES THE PROPERTY MANAGEMENT SYSTEM PROVIDER, THE CENTRAL ELECTRONIC LOCKING SYSTEM PROVIDER, HVAC SYSTEM PROVIDER, IT NETWORK INFRASTRUCTURE PROVIDER, AND OTHER HOTEL AND HOTEL TECHNOLOGY PROVIDERS. THE GUESTROOM CONTROL SYSTEM MUST BE PROGRAMMED AND TESTED TO AN OWNER/BRAND APPROVED SEQUENCE OF OPERATION TO DELIVER THE OPTIMUM GUEST EXPERIENCE.
- GUESTROOM CONTROL SYSTEM TO BE PROVIDED BY A QUALIFIED GUESTROOM CONTROLS INTEGRATOR CERTIFIED BY THE MANUFACTURER. MANUFACTURER TO PROVIDE A LIST OF CERTIFIED CONTROLS INTEGRATORS.
- LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.
- TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-LUTRON-40 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ONLINE AT WWW.LUTRON.COM/LED.
- TO REQUEST THE TESTING OF AN LED PRODUCT TO LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ONLINE AT WWW.LUTRON.COM/LED OR CONTACT LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 (609 m).
- LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HILUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HILUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.
- IF UNSURTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON PRODUCTS FOLLOWING THE EC STANDARD. DRIVERS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.
- IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END DIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

**LUTRON NOTES:**

ALL DIMMING BALLASTS TO BE LUTRON ECOSYSTEM ECOSYSTEM H-SERIES, OR HILUME 3D TYPE. LUTRON DRIVER TO BE A-SERIES 3 WIRE UNLESS OTHERWISE NOTED.  
E.E. TO CONFIRM ALL CIRCUITING REQUIREMENTS.  
ARCHITECT TO VERIFY QUANTITY, LOCATION & FINISH OF ALL CONTROLS.  
ALL FACEPLATES, DIMMERS, SWITCHES, RECEPTACLES & CABLE/PHONE JACKS TO BE LUTRON NOVA 1".  
LUTRON FIELD SERVICE COMMISSIONING INCLUDED IN ALL SYSTEMS. INITIATES AN 8 YEAR LIMITED WARRANTY. THE ELECTRICAL CONTRACTOR MUST CONTACT LUTRON (800-523-9469) TO SET UP VISIT WITH 10 DAYS NOTICE.

**DOMESTIC MYROOM PLUS TYPICAL ONE-LINE**

**LOCATION TBD**

**CONCEPT DRAWING NOT FOR CONSTRUCTION**

Project Number:	#####
Drawn By:	CMT
Drawing Revision:	0
Drawing Date:	FALL 2018
Sheet:	1 OF 1

