

## WIRING LEGEND:



QS SMART PANEL POWER SUPPLY (QSPSY-10PNL) SHADE WIRING GUIDE				
MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUGE		
SHADES	CONTROLS	12 AWG (4 mm²) QSH-CBL-L-500 QSH-CBL-P-L-500	16 AWG (1.5 mm²) QSH-CBL-M-500 QSH-CBL-P-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
1 SIVOIA QS SHADE, OR DRAPERY DRIVE UNIT	UP TO 1 POWER DRAW UNIT	500 ft (150 m)	200 ft (60 m)	125 ft (35 m)
2 SIVOIA QS ROLLER 64, ± 30 ft (2.75 m) EACH		200 ft (60 m)	75 ft (20 m)	50 ft (15 m)
3 SIVOIA QS ROLLER 64, ± 20 ft (1.8 m) EACH				
2 SIVOIA QS ROLLER 100, ± 50 ft (4.6 m) EACH				
QS INDIVIDUAL POWER SUPPLY (QSPS-PX-1-35V OR QSPS-J-1-50) SHADE WIRING GUIDE				
MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUGE		
SHADES	CONTROLS	12 AWG (4.0 mm²) QSH-CBL-L-500 QSH-CBL-P-L-500	16 AWG (1.5 mm²) QSH-CBL-M-500 QSH-CBL-P-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
1 SIVOIA QS SHADE OR DRAPERY DRIVE UNIT	UP TO 1 POWER DRAW UNIT	250 ft (75 m)	100 ft (30 m)	50 ft (15 m)

- INPUT POWER (NORMAL)
- 2 #12AWG (4 mm²)
- 3 #12AWG (4 mm²)
- 0-10V SIGNAL: 2 #18AWG (1.0 mm²)
- CAT5 OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY OTHERS). 328 ft (100 m) MAXIMUM RUN.
- 1-WAY RF COMMUNICATION
- 2-WAY RF COMMUNICATION
- 2 #18AWG (1.0 mm²)

## WIRING NOTES:

### RA2 SELECT RULES:

THE FOLLOWING RULES MUST BE OBSERVED FOR PROPER OPERATION:

- 1 MAIN REPEATERS MAXIMUM
- 4 AUXILIARY REPEATERS MAXIMUM
- 1 WIRELESS LINK PER MAIN REPEATER. LINK LIMITS:
  - 100 DEVICES (INCLUDING REPEATERS)
  - 100 ZONES (INCLUDES SHADES, HVAC ZONES, DIMMERS/SWITCHES, AND VCRX OUTPUTS)
  - 2500 FT² (762 M²) COVERAGE PER REPEATER
  - 30 FT (9 M) FROM ANY NON-REPEATER TO REPEATER
  - 60 FT (18M) BETWEEN REPEATERS

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-DIM-LEDS OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

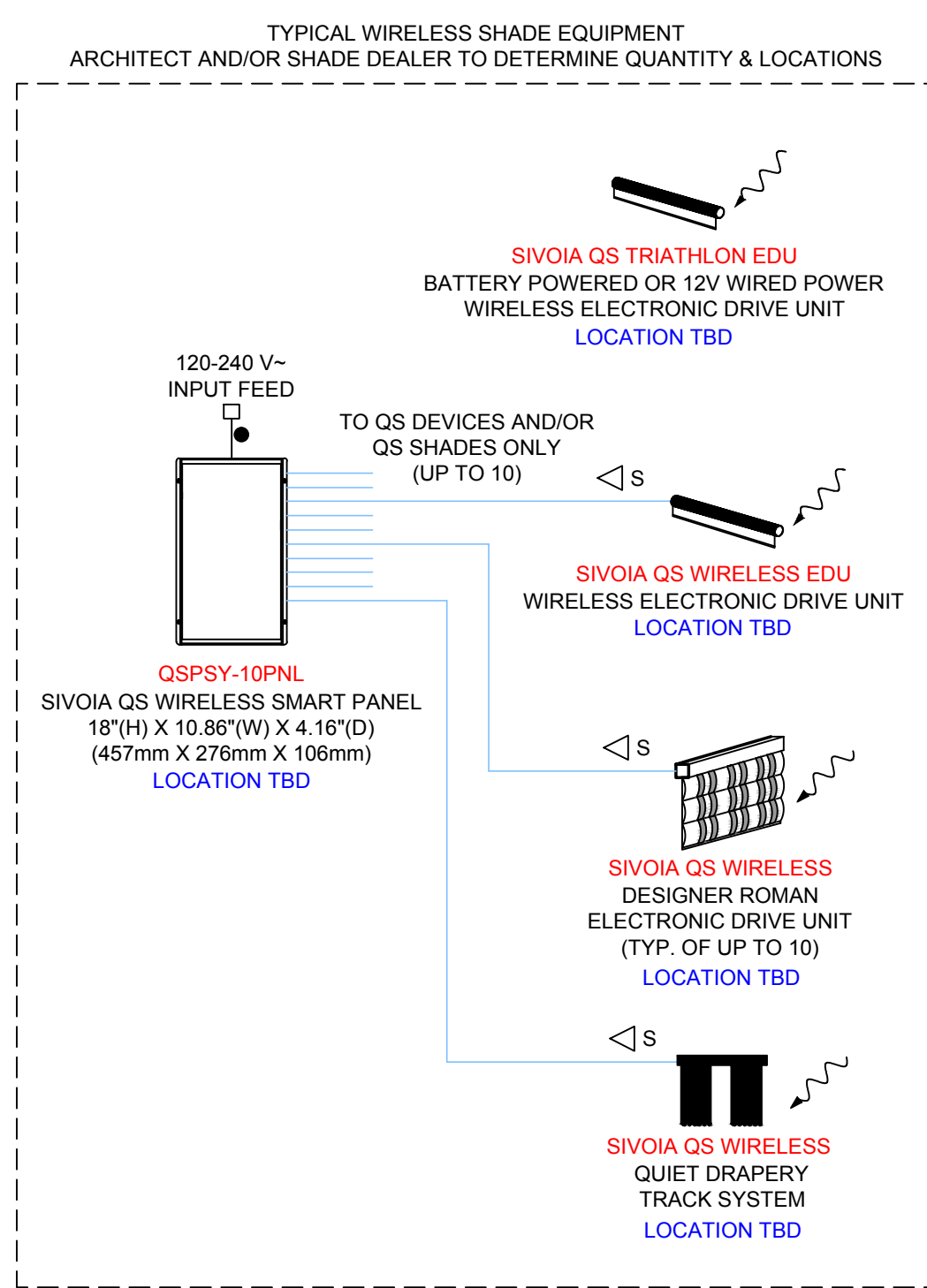
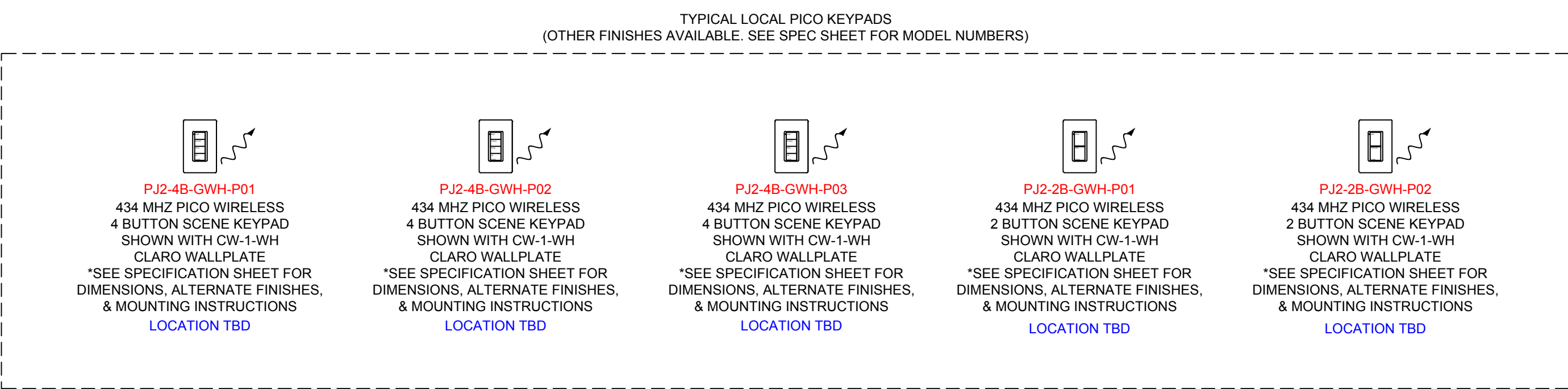
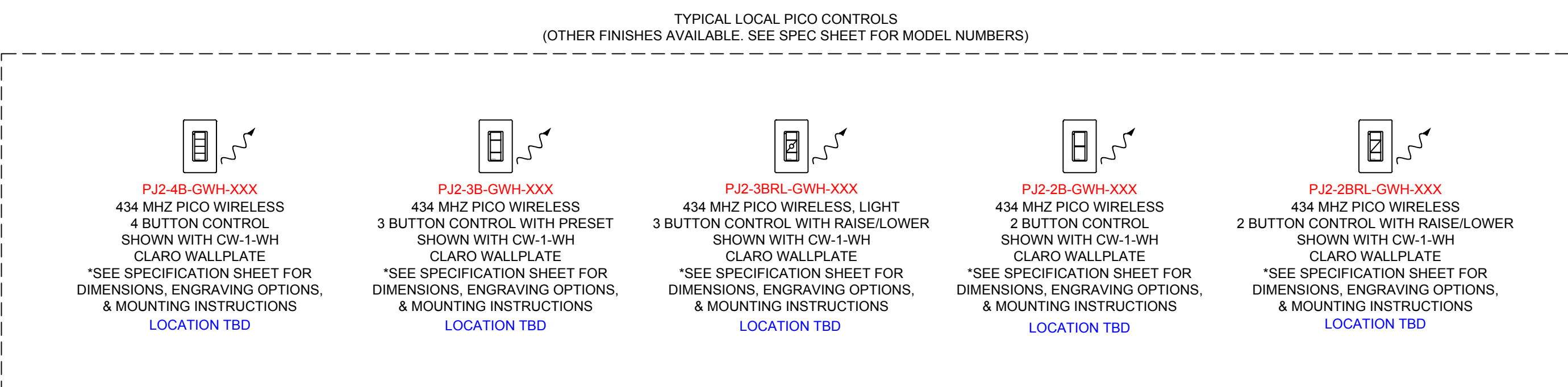
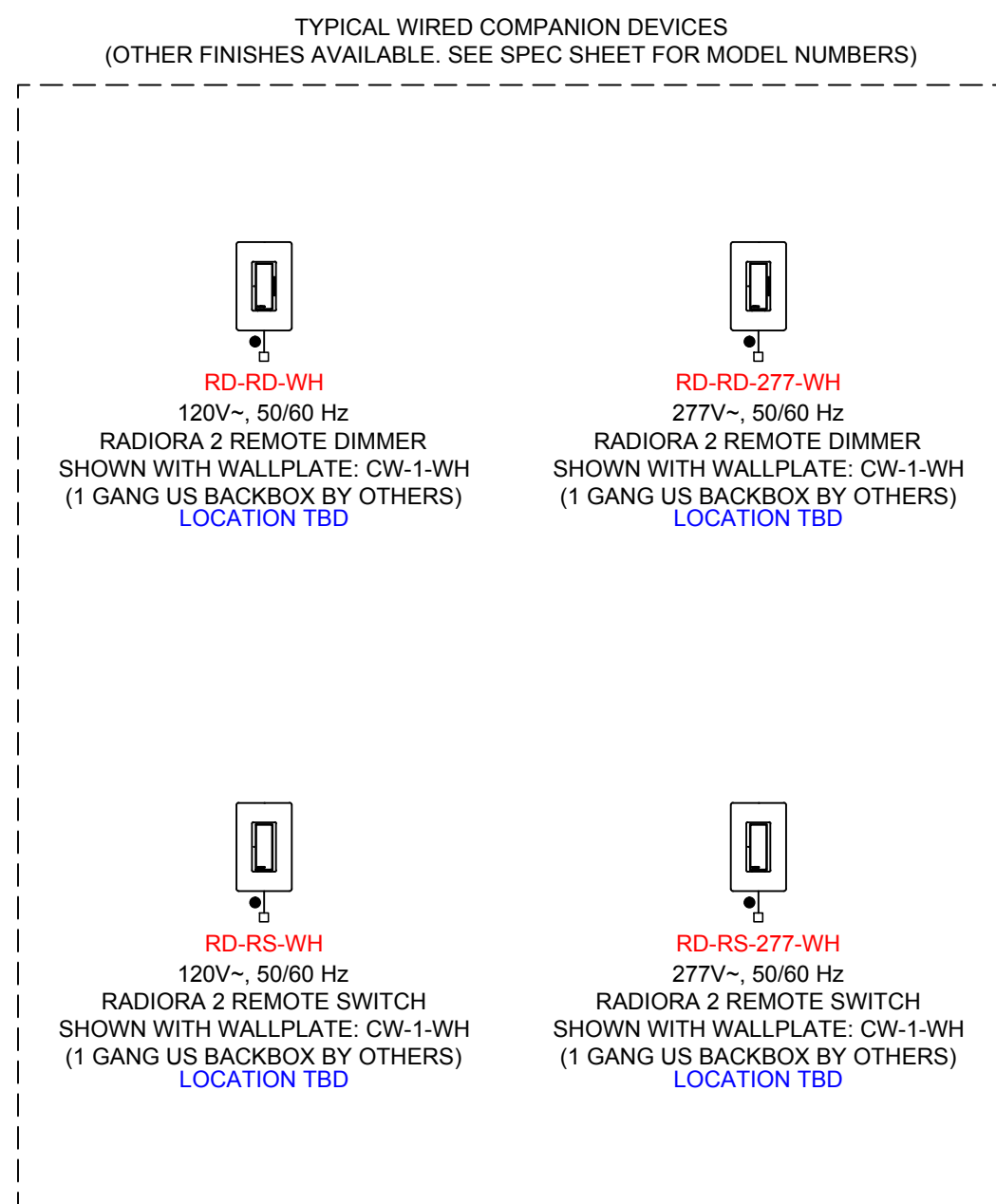
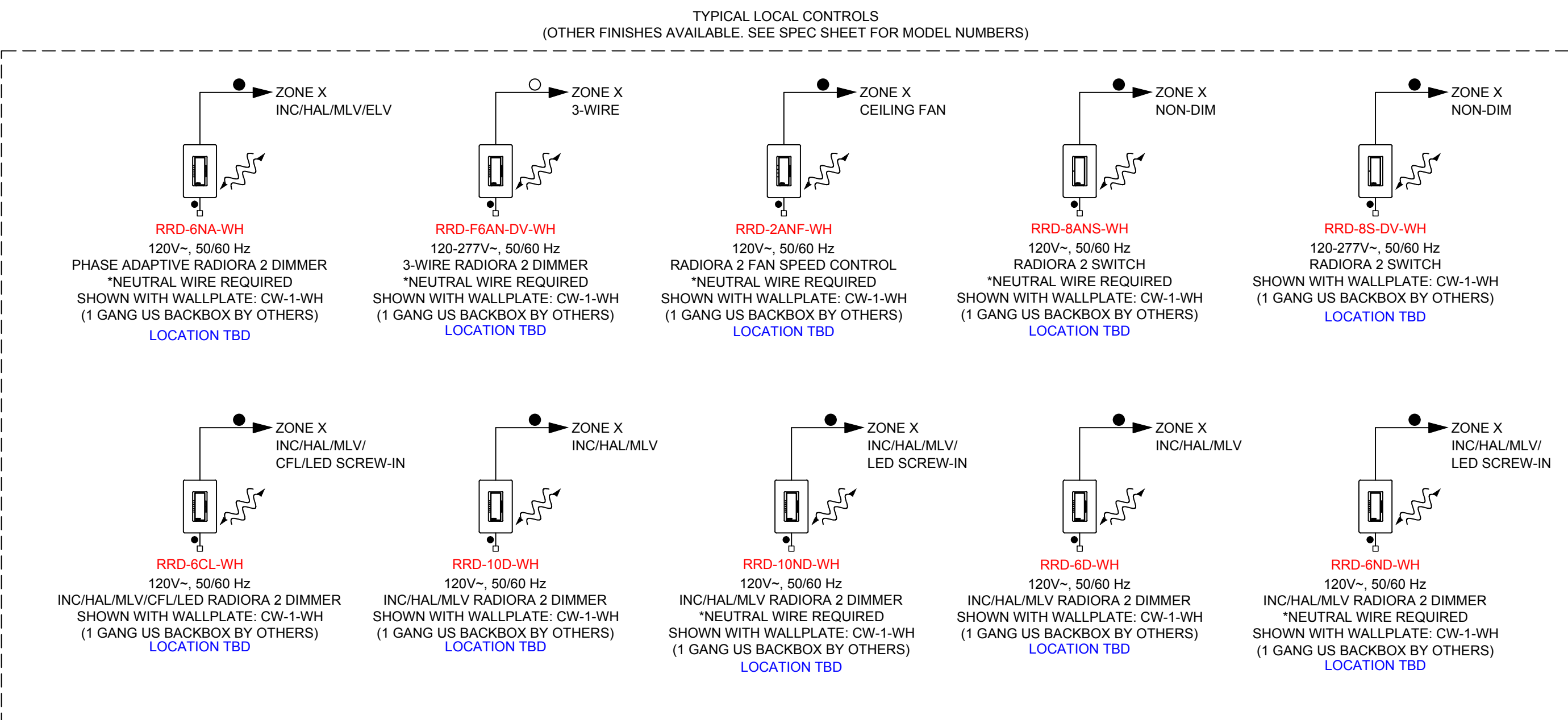
TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LED@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME 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 USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 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 TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

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 LIGHTING/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.



## LUTRON NOTES:

ALL DIMMING BALLASTS TO BE LUTRON ECOSYSTEM, ECOSYSTEM H-SERIES, OR HI-LUME 3D TYPE.  
ALL DIMMING DRIVERS TO BE LUTRON ECOSYSTEM DRIVER: A-SERIES, H-SERIES, OR S-SERIES 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 T.

LUTRON FIELD SERVICE COMMISSIONING INCLUDED IN ALL SYSTEMS INITIATES AN 2 YEAR LIMITED WARRANTY. THE ELECTRICAL CONTRACTOR MUST CONTACT LUTRON (1-844-588-7661) TO SET UP VISIT WITH 10 DAYS NOTICE.

## RA2 SELECT TYPICAL ONE-LINE

LOCATION TBD

## CONCEPT DRAWING NOT FOR CONSTRUCTION

Project Number:	#####
Drawn By:	CMT
Drawing Revision:	0
Drawing Date:	FALL 2017
Sheet:	1 OF 1