
















SYMBOL: LIGHTING	DESCRIPTION: LIGHT FIXTURE, UPPER CASE LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS (TYPICAL FOR ALL FIXTURES ON A CIRCUIT).	SYMBOL: COMMUNICATIONS	DESCRIPTION: COMMUNICATIONS OUTLET BOX FOR OWNER FURNISHED VOICE AND/OR DATA, STUB 1/2" C TO CEILING CAVITY WITH FULL-SPRING AND TERMINATE WITH PLASTIC BUSHINGS. C= MOUNTED 6" ABOVE COUNTER OR BACKPLASH, W= WALL MOUNTED AT +54" AFF.	SYMBOL: COMMUNICATIONS	DESCRIPTION: COMMUNICATIONS OUTLET BOX FOR OWNER FURNISHED VOLT. STUB 1 1/4" C TO CEILING CAVITY WITH FULL-SPRING AND TERMINATE WITH PLASTIC BUSHINGS. C= MOUNTED 6" ABOVE COUNTER OR BACKPLASH, W= WALL MOUNTED AT +54" AFF.
	LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.		LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.		LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.
	LIGHT STRIP LIGHTING FIXTURE.		LIGHT STRIP LIGHTING FIXTURE.		LIGHT STRIP LIGHTING FIXTURE.
	CEILING LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.		CEILING LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.		CEILING LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
	CEILING LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.		CEILING LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.		CEILING LIGHT FIXTURE, WITH INTEGRAL EMERGENCY BATTERY/BALLAST.
	WALL MOUNTED LIGHT FIXTURE.		WALL MOUNTED LIGHT FIXTURE.		WALL MOUNTED LIGHT FIXTURE.
	WALL WASHER LIGHT FIXTURE.		WALL WASHER LIGHT FIXTURE.		WALL WASHER LIGHT FIXTURE.
	TRACK LIGHTING FIXTURE.		TRACK LIGHTING FIXTURE.		TRACK LIGHTING FIXTURE.
	PENDANT MOUNTED LIGHT FIXTURE.		PENDANT MOUNTED LIGHT FIXTURE.		PENDANT MOUNTED LIGHT FIXTURE.
	CEILING FAN.		CEILING FAN.		CEILING FAN.
	SITE LIGHTING FIXTURE AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.		SITE LIGHTING FIXTURE AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.		SITE LIGHTING FIXTURE AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
	SITE LIGHTING FIXTURES AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS. (2 @ 180')		SITE LIGHTING FIXTURES AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS. (2 @ 180')		SITE LIGHTING FIXTURES AND POLE. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS. (2 @ 180')
	GROUND MOUNTED LANDSCAPE LIGHT FIXTURE.		GROUND MOUNTED LANDSCAPE LIGHT FIXTURE.		GROUND MOUNTED LANDSCAPE LIGHT FIXTURE.
	EXIT LIGHT, SINGLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.		EXIT LIGHT, SINGLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.		EXIT LIGHT, SINGLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.
	EXIT LIGHT, DOUBLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.		EXIT LIGHT, DOUBLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.		EXIT LIGHT, DOUBLE FACE, UNIVERSAL MOUNT, AS SPECIFIED IN THE FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE. BLACK QUADRANT INDICATES DIRECTION OF FACE, ARROWS INDICATE DIRECTION OF TRAVEL.
	BATTERY OPERATED EMERGENCY LIGHT FIXTURE.		BATTERY OPERATED EMERGENCY LIGHT FIXTURE.		BATTERY OPERATED EMERGENCY LIGHT FIXTURE.
	COMBINATION EXIT SIGN AND BATTERY OPERATED EMERGENCY LIGHT FIXTURE.		COMBINATION EXIT SIGN AND BATTERY OPERATED EMERGENCY LIGHT FIXTURE.		COMBINATION EXIT SIGN AND BATTERY OPERATED EMERGENCY LIGHT FIXTURE.
	BATTERY OPERATED EMERGENCY LIGHT FIXTURE, CEILING MOUNTED.		BATTERY OPERATED EMERGENCY LIGHT FIXTURE, CEILING MOUNTED.		BATTERY OPERATED EMERGENCY LIGHT FIXTURE, CEILING MOUNTED.
	SINGLE POLE SWITCH.		SINGLE POLE SWITCH.		SINGLE POLE SWITCH.
	THREE WAY SWITCH.		THREE WAY SWITCH.		THREE WAY SWITCH.
	DUAL LEVEL SWITCHING - 3 LAMP FIXTURE WITH CENTER LAMP ON ONE SWITCH AND OUTBOARD LAMPS ON SECOND SWITCH.		DUAL LEVEL SWITCHING - 3 LAMP FIXTURE WITH CENTER LAMP ON ONE SWITCH AND OUTBOARD LAMPS ON SECOND SWITCH.		DUAL LEVEL SWITCHING - 3 LAMP FIXTURE WITH CENTER LAMP ON ONE SWITCH AND OUTBOARD LAMPS ON SECOND SWITCH.
	ON/OFF SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		ON/OFF SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		ON/OFF SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.
	DIMMER SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		DIMMER SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		DIMMER SWITCH. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.
	ADVANCED WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		ADVANCED WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.		ADVANCED WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING CONTROLS SYMBOL LEGEND ON PLANS FOR DEVICE SUBSCRIPT DESIGNATIONS AND DESCRIPTIONS.
	OCCUPANCY SENSOR. SEE TABLE ON PLANS FOR SPEC.		OCCUPANCY SENSOR. SEE TABLE ON PLANS FOR SPEC.		OCCUPANCY SENSOR. SEE TABLE ON PLANS FOR SPEC.
	POWER PACK FOR LIGHTING CONTROLS. SEE TABLE ON PLANS FOR SPEC.		POWER PACK FOR LIGHTING CONTROLS. SEE TABLE ON PLANS FOR SPEC.		POWER PACK FOR LIGHTING CONTROLS. SEE TABLE ON PLANS FOR SPEC.
	EXTERIOR PHOTOCELL.		EXTERIOR PHOTOCELL.		EXTERIOR PHOTOCELL.
	LIGHTING CONTACTOR.		LIGHTING CONTACTOR.		LIGHTING CONTACTOR.
POWER		POWER		POWER	
	DUPLEX RECEPTACLE, H=HORIZONTALLY MOUNTED.		DUPLEX RECEPTACLE, H=HORIZONTALLY MOUNTED.		DUPLEX RECEPTACLE, H=HORIZONTALLY MOUNTED.
	DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER BACKPLASH.		DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER BACKPLASH.		DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER BACKPLASH.
	DUPLEX RECEPTACLE, IG=ISOLATED GROUND.		DUPLEX RECEPTACLE, IG=ISOLATED GROUND.		DUPLEX RECEPTACLE, IG=ISOLATED GROUND.
	DUPLEX RECEPTACLE, TR=TRAPPER RESISTANT.		DUPLEX RECEPTACLE, TR=TRAPPER RESISTANT.		DUPLEX RECEPTACLE, TR=TRAPPER RESISTANT.
	GFCI RECEPTACLE FOR ELECTRIC WATER HEATER. PROVIDE GFCI RECEPTACLE.		GFCI RECEPTACLE FOR ELECTRIC WATER HEATER. PROVIDE GFCI RECEPTACLE.		GFCI RECEPTACLE FOR ELECTRIC WATER HEATER. PROVIDE GFCI RECEPTACLE.
	DUPLEX RECEPTACLE, BR=BREAK ROOM COOPER WITH GFCI CIRCUIT TO MEET BREAK ROOM GFCI REQUIREMENTS.		DUPLEX RECEPTACLE, BR=BREAK ROOM COOPER WITH GFCI CIRCUIT TO MEET BREAK ROOM GFCI REQUIREMENTS.		DUPLEX RECEPTACLE, BR=BREAK ROOM COOPER WITH GFCI CIRCUIT TO MEET BREAK ROOM GFCI REQUIREMENTS.
	DUPLEX RECEPTACLE, DEP NEXT TO ANY RECEPTACLE SHALL INDICATE THAT ALL NEW WIRING SHALL BE ONLY DEVICES ON THE CIRCUIT. IF EXISTING RECEPTACLE HAS DEP BY IT, THEN CONTRACTOR SHALL REMOVE ALL OTHER DEVICES FROM CIRCUIT, OR PROVIDE A NEW HOMERUN TO PANEL.		DUPLEX RECEPTACLE, DEP NEXT TO ANY RECEPTACLE SHALL INDICATE THAT ALL NEW WIRING SHALL BE ONLY DEVICES ON THE CIRCUIT. IF EXISTING RECEPTACLE HAS DEP BY IT, THEN CONTRACTOR SHALL REMOVE ALL OTHER DEVICES FROM CIRCUIT, OR PROVIDE A NEW HOMERUN TO PANEL.		DUPLEX RECEPTACLE, DEP NEXT TO ANY RECEPTACLE SHALL INDICATE THAT ALL NEW WIRING SHALL BE ONLY DEVICES ON THE CIRCUIT. IF EXISTING RECEPTACLE HAS DEP BY IT, THEN CONTRACTOR SHALL REMOVE ALL OTHER DEVICES FROM CIRCUIT, OR PROVIDE A NEW HOMERUN TO PANEL.
	RECEPTACLE FIELD LOCATION FOR CONDENSATE PUMP.		RECEPTACLE FIELD LOCATION FOR CONDENSATE PUMP.		RECEPTACLE FIELD LOCATION FOR CONDENSATE PUMP.
	COMBO DUPLEX RECEPTACLE AND USB.		COMBO DUPLEX RECEPTACLE AND USB.		COMBO DUPLEX RECEPTACLE AND USB.
	COMBO DUPLEX RECEPTACLE AND USB MOUNTED ABOVE COUNTER BACKPLASH.		COMBO DUPLEX RECEPTACLE AND USB MOUNTED ABOVE COUNTER BACKPLASH.		COMBO DUPLEX RECEPTACLE AND USB MOUNTED ABOVE COUNTER BACKPLASH.
	DUPLEX RECEPTACLE, MOUNTED IN CEILING.		DUPLEX RECEPTACLE, MOUNTED IN CEILING.		DUPLEX RECEPTACLE, MOUNTED IN CEILING.
	QUADRUPLX RECEPTACLE, MOUNTED IN CEILING.		QUADRUPLX RECEPTACLE, MOUNTED IN CEILING.		QUADRUPLX RECEPTACLE, MOUNTED IN CEILING.
	SHOW WINDOW RECEPTACLE. SHALL BE MOUNTED WITHIN 18" OF TOP OF WINDOW. THEREFORE MUST BE CEILING MOUNTED BUT MAY BE REQUIRED TO BE WALL MOUNTED - COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. (2 @ 60)		SHOW WINDOW RECEPTACLE. SHALL BE MOUNTED WITHIN 18" OF TOP OF WINDOW. THEREFORE MUST BE CEILING MOUNTED BUT MAY BE REQUIRED TO BE WALL MOUNTED - COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. (2 @ 60)		SHOW WINDOW RECEPTACLE. SHALL BE MOUNTED WITHIN 18" OF TOP OF WINDOW. THEREFORE MUST BE CEILING MOUNTED BUT MAY BE REQUIRED TO BE WALL MOUNTED - COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. (2 @ 60)
	RECEPTACLE SERVING POINT OR SALE SHALL HAVE DEDICATED NEUTRAL AND GROUND CONDUCTORS AND SHALL NOT BE CONNECTED TO MULTI-WIRE BRANCH CIRCUITS.		RECEPTACLE SERVING POINT OR SALE SHALL HAVE DEDICATED NEUTRAL AND GROUND CONDUCTORS AND SHALL NOT BE CONNECTED TO MULTI-WIRE BRANCH CIRCUITS.		RECEPTACLE SERVING POINT OR SALE SHALL HAVE DEDICATED NEUTRAL AND GROUND CONDUCTORS AND SHALL NOT BE CONNECTED TO MULTI-WIRE BRANCH CIRCUITS.
	QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE.		QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE.		QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE.
	QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE, MTD. ABOVE COUNTER.		QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE, MTD. ABOVE COUNTER.		QUADRUPLX (DOUBLE DUPLEX) RECEPTACLE, MTD. ABOVE COUNTER.
	GFI RECEPTACLE FOR DISHWASHER - LOCATE IN ACCESSIBLE AREA NEAR DISHWASHER, UNDER SINK.		GFI RECEPTACLE FOR DISHWASHER - LOCATE IN ACCESSIBLE AREA NEAR DISHWASHER, UNDER SINK.		GFI RECEPTACLE FOR DISHWASHER - LOCATE IN ACCESSIBLE AREA NEAR DISHWASHER, UNDER SINK.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE.		DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE.		DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		DUPLEX GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.
	QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.
	QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.		QUADRUPLX (DOUBLE DUPLEX) GROUND FAULT CIRCUIT INTERRUPTED RECEPTACLE-MOUNTED ABOVE COUNTER BACKPLASH.
	CLOCK RECEPTACLE.		CLOCK RECEPTACLE.		CLOCK RECEPTACLE.
	SPECIAL PURPOSE OUTLET, NEMA CONFIGURATION AS SHOWN.		SPECIAL PURPOSE OUTLET, NEMA CONFIGURATION AS SHOWN.		SPECIAL PURPOSE OUTLET, NEMA CONFIGURATION AS SHOWN.
	JUNCTION BOX WITH BLANK PLATE; BRACKET INDICATES WALL MOUNTED.		JUNCTION BOX WITH BLANK PLATE; BRACKET INDICATES WALL MOUNTED.		JUNCTION BOX WITH BLANK PLATE; BRACKET INDICATES WALL MOUNTED.
	PANELBOARD.		PANELBOARD.		PANELBOARD.
	RECESSED FLUSH-MOUNTED PANELBOARD. FRONT OF PANEL INDICATED BY LONGER EDGES OF SYMBOL. PROVIDE FLUSH TYPE COVER.		RECESSED FLUSH-MOUNTED PANELBOARD. FRONT OF PANEL INDICATED BY LONGER EDGES OF SYMBOL. PROVIDE FLUSH TYPE COVER.		RECESSED FLUSH-MOUNTED PANELBOARD. FRONT OF PANEL INDICATED BY LONGER EDGES OF SYMBOL. PROVIDE FLUSH TYPE COVER.
	DISTRIBUTION PANELBOARD.		DISTRIBUTION PANELBOARD.		DISTRIBUTION PANELBOARD.
	METER SOCKET, PROVIDE PER UTILITY COMPANY REQUIREMENTS.		METER SOCKET, PROVIDE PER UTILITY COMPANY REQUIREMENTS.		METER SOCKET, PROVIDE PER UTILITY COMPANY REQUIREMENTS.
	TIME CLOCK.		TIME CLOCK.		TIME CLOCK.
	SHUNT TRIP PUSH BUTTON.		SHUNT TRIP PUSH BUTTON.		SHUNT TRIP PUSH BUTTON.
	FURNITURE CONNECTION, POWER WIRING UP WALL AND FINAL CONNECTIONS TO SYSTEMS FURNITURE. COORDINATE WITH FURNITURE VENDOR TO CORRELATE EXACT POWER FEED LOCATIONS PRIOR TO ROUGH-IN. #164WS MINIMUM FROM DEVICE TO PANEL.		FURNITURE CONNECTION, POWER WIRING UP WALL AND FINAL CONNECTIONS TO SYSTEMS FURNITURE. COORDINATE WITH FURNITURE VENDOR TO CORRELATE EXACT POWER FEED LOCATIONS PRIOR TO ROUGH-IN. #164WS MINIMUM FROM DEVICE TO PANEL.		FURNITURE CONNECTION, POWER WIRING UP WALL AND FINAL CONNECTIONS TO SYSTEMS FURNITURE. COORDINATE WITH FURNITURE VENDOR TO CORRELATE EXACT POWER FEED LOCATIONS PRIOR TO ROUGH-IN. #164WS MINIMUM FROM DEVICE TO PANEL.
	FLOORBOX (1)(2)(3) GANG, (2)(3) COMPARTMENT FOR SYSTEMS FURNITURE, POWER AND COMMUNICATIONS OR DUPLEX RECEPTACLE AND COMMUNICATIONS. LEGEND (2)(3) 800WPS WITH 2 HUB, (2)(3) 800WPS ADJUSTING RING, (2)(3) 800WPS TWO THREE GANG BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRASS FURNITURE COVER PLATE. PROVIDE ALL OTHER ACCESSORIES FOR A COMPLETE INSTALLATION TO MEET DESIGN INTENT. PROVIDE (1)(2)(3) FOR COMMUNICATIONS TO NEAREST WALL AND EXTEND TO ACCESSIBLE CEILING CAVITY AND TERMINATE WITH PLASTIC BUSHINGS.		FLOORBOX (1)(2)(3) GANG, (2)(3) COMPARTMENT FOR SYSTEMS FURNITURE, POWER AND COMMUNICATIONS OR DUPLEX RECEPTACLE AND COMMUNICATIONS. LEGEND (2)(3) 800WPS WITH 2 HUB, (2)(3) 800WPS ADJUSTING RING, (2)(3) 800WPS TWO THREE GANG BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRASS FURNITURE COVER PLATE. PROVIDE ALL OTHER ACCESSORIES FOR A COMPLETE INSTALLATION TO MEET DESIGN INTENT. PROVIDE (1)(2)(3) FOR COMMUNICATIONS TO NEAREST WALL AND EXTEND TO ACCESSIBLE CEILING CAVITY AND TERMINATE WITH PLASTIC BUSHINGS.		FLOORBOX (1)(2)(3) GANG, (2)(3) COMPARTMENT FOR SYSTEMS FURNITURE, POWER AND COMMUNICATIONS OR DUPLEX RECEPTACLE AND COMMUNICATIONS. LEGEND (2)(3) 800WPS WITH 2 HUB, (2)(3) 800WPS ADJUSTING RING, (2)(3) 800WPS TWO THREE GANG BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRUSHED ALUMINUM COMBO CARPET AND TILE FANGE, (2)(3) 800WPS (2)(3) 800WPS BRASS OR BRASS FURNITURE COVER PLATE. PROVIDE ALL OTHER ACCESSORIES FOR A COMPLETE INSTALLATION TO MEET DESIGN INTENT. PROVIDE (1)(2)(3) FOR COMMUNICATIONS TO NEAREST WALL AND EXTEND TO ACCESSIBLE CEILING CAVITY AND TERMINATE WITH PLASTIC BUSHINGS.
	NOTE: FLOORBOXES MAY BE STAMPED STEEL IF NOT IN DIRECT CONTACT WITH THE EARTH. PROVIDE LAYER OF CONCRETE IF REQUIRED. OTHERWISE, IF IN DIRECT CONTACT WITH EARTH, PROVIDE CAST IRON FLOORBOXES.		NOTE: FLOORBOXES MAY BE STAMPED STEEL IF NOT IN DIRECT CONTACT WITH THE EARTH. PROVIDE LAYER OF CONCRETE IF REQUIRED. OTHERWISE, IF IN DIRECT CONTACT WITH EARTH, PROVIDE CAST IRON FLOORBOXES.		NOTE: FLOORBOXES MAY BE STAMPED STEEL IF NOT IN DIRECT CONTACT WITH THE EARTH. PROVIDE LAYER OF CONCRETE IF REQUIRED. OTHERWISE, IF IN DIRECT CONTACT WITH EARTH, PROVIDE CAST IRON FLOORBOXES.
	LOW VOLTAGE RELAY IN NEMA 1 ENCLOSURE, OR AS NOTED.		LOW VOLTAGE RELAY IN NEMA 1 ENCLOSURE, OR AS NOTED.		LOW VOLTAGE RELAY IN NEMA 1 ENCLOSURE, OR AS NOTED.
	TRANSFORMER (NUMBER INDICATES KVA, EX: 45=45KVA). DASHED LINE INDICATES NEC REQUIRED CLEARANCE.		TRANSFORMER (NUMBER INDICATES KVA, EX: 45=45KVA). DASHED LINE INDICATES NEC REQUIRED CLEARANCE.		TRANSFORMER (NUMBER INDICATES KVA, EX: 45=45KVA). DASHED LINE INDICATES NEC REQUIRED CLEARANCE.

SYMBOL LEGEND AND GENERAL NOTES

NOT TO SCALE

DIVISION 16 - ELECTRICAL SPECIFICATIONS

26000 GENERAL ELECTRICAL REQUIREMENTS	26115 CONDUIT FITTINGS
A. THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING:	A. COMPRESSION TYPE OR SETSCREW TYPE SHALL BE USED.
A.1. NFPA 70 NATIONAL ELECTRICAL CODE 2020 EDITION.	B. PROVIDE PROPER EXPANSION JOINTS WHEN CROSSING BUILDING EXPANSION LINES.
A.2. NFPA 72 NATIONAL FIRE ALARM CODE 2019 EDITION.	26120 WIRES, CABLES AND CONNECTORS
A.3. NFPA 80A STANDARD TO THE INSTALLATION OF AIR CONDITIONING AND VENTILATING EQUIPMENT.	A. ALL CONDUITS SHALL BE COPPER WITH 600V 90' WITH THIN/THIN-2 INSULATION FOR USE WITH BUILDING CONFINES. WHEN INSTALLED BEYOND THE BUILDING CONFINES, SUCH AS IN LEADS TO EXTERIOR, CONDUITS SHALL BE COPPER WITH 12 AWG AND LARGER FOR MOTORS AND 600V 90' WITH 2 INSULATION. PROVIDE 12 AWG-2 INSULATION FOR ALL WIRING SERVING APPLIANCES.
A.4. NFPA 101 LIFE SAFETY CODE (2021) WITH FLORIDA AMENDMENTS.	B. USE SOLID CONDUCTOR, SINGLE CONDUCTOR, NO 12 AWG MINIMUM FOR GENERAL USE WIRING.
A.5. NFPA 117 ACCESSIBILITY TO THE BUILDING (2021) WITH FLORIDA AMENDMENTS.	C. PROVIDE ALL ELECTRICAL EQUIPMENT TERMINALS SHALL BE MINIMUM 75°C RATED.
A.6. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	D. PROVIDE LUGS FOR FEEDER SIZES INDICATED ON DRAWINGS OR AS REQUIRED.
A.7. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	E. LUGS FOR ALL ELECTRICAL EQUIPMENT TERMINALS SHALL BE MINIMUM 75°C RATED.
A.8. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	F. WIRE SIZE FOR 120V BRANCH CIRCUITS SHALL BE PER THE FOLLOWING LENGTH OF RUNS:
A.9. FLORIDA BUILDING CODE 2023 (ENERGY CONSERVATION) EIGHTH EDITION.	H.1. 1 TO 50 FT. RUN FROM PANEL TO BOX: MINIMUM 12 AWG MINIMUM.
A.10. FLORIDA BUILDING CODE 2023 (ENERGY CONSERVATION) EIGHTH EDITION.	H.2. 51 TO 200 FT. RUN: INCREASE ONE WIRE SIZE, I.E. NO. 12 AWG BECOMES NO. 10 AWG TO FIRST OUTLET.
A.11. NFPA 1 - THE FIRE CODE - 2023 EDITION WITH FLORIDA AMENDMENTS.	H.3. 201 TO 325 FT. RUN: INCREASE TWO WIRE SIZES, I.E. NO. 12 AWG BECOMES NO. 8 AWG TO FIRST OUTLET.
A.12. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	H.4. 326 AND ABOVE: WIRING SHALL BE SIZED FOR 3% MAXIMUM VOLTAGE DROP.
A.13. NFPA 1 - THE FIRE CODE - 2023 EDITION WITH FLORIDA AMENDMENTS.	26130 BOXES
A.14. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	A. WALL OUTLET BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.15. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	B. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.16. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	C. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.17. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	D. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.18. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	E. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.19. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	F. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.20. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	G. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.21. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	H. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.22. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	I. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.23. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	J. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.24. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	K. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.25. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	L. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.26. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	M. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.27. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	N. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.28. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	O. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.29. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	P. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.30. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	Q. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.31. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	R. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.32. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	S. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.33. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	T. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.34. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	U. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.35. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	V. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.36. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	W. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.37. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	X. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.38. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	Y. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.39. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	Z. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.40. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AA. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.41. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AB. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.42. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AC. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.43. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AD. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.44. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AE. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.45. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AF. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.46. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AG. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.47. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AH. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.48. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AI. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.49. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AJ. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.50. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AK. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.51. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AL. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.52. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AM. 4 INCH SQUARE BOXES SHALL BE 4 INCH SQUARE MINIMUM WITH A TOTAL DEPTH OF LESS THAN 2 INCHES.
A.53. FLORIDA BUILDING CODE 2023 (ACCESSIBILITY), EIGHTH EDITION.	AN. 4 INCH SQUARE BOXES SHALL BE 4

Symbol	Manufacture	Catalog Number	Description	Max Load Per Relay
	SENSORSWITCH	WSKA-PDT-SA-XX	COMBO DUAL TECH OCCUPANCY SENSOR WITH 20" SMALL MOTION DETECTION, ON/OFF SINGLE RELAY WALL SWITCH, MANUAL ON DEFAULT, CAPABLE OF AUTOMATIC ON	1200W @ 277V 800W @ 120V
	SENSORSWITCH	WSKA-PDT-XX	COMBO DUAL TECH OCCUPANCY SENSOR WITH 20" SMALL MOTION DETECTION, ON/OFF SINGLE RELAY WALL SWITCH, AUTOMATIC ON DEFAULT, CAPABLE OF MANUAL ON	1200W @ 277V 800W @ 120V
	SENSORSWITCH	WSKA-PDT-D-SA-XX	COMBO DUAL TECH OCCUPANCY SENSOR WITH 20" SMALL MOTION DETECTION, 0-10V SINGLE RELAY WALL DIMMER, MANUAL ON DEFAULT, CAPABLE OF AUTOMATIC ON, PROVIDES ADAPTIVE DAYLIGHT HARVESTING FUNCTIONALITY WITH INTEGRAL PHOTOCELL	1200W @ 277V 800W @ 120V
	ACUTYCONTROLS	RP0DMA	RIGHT ON/OFF (1) CHANNEL WALLPOD	LV WIRING
	ACUTYCONTROLS	RP0DMA-2P	RIGHT ON/OFF (2) CHANNEL WALLPOD	LV WIRING
	ACUTYCONTROLS	RP0DMA-DX	RIGHT ON/OFF AND RAISE/LOWER (1) CHANNEL WALLPOD	LV WIRING
	ACUTYCONTROLS	RP0DMA-2P-DX	RIGHT ON/OFF AND RAISE/LOWER (2) CHANNEL WALLPOD	LV WIRING
	ACUTYCONTROLS	RP0DMA-4P-DX	RIGHT ON/OFF AND RAISE/LOWER (4) CHANNEL WALLPOD	LV WIRING
	ACUTYCONTROLS	RP116-EFP	RIGHT POWER PACK - 16 AMPS SWITCHING LOAD, X DESIGNATES RELATED CONTROL GROUP	4400W @ 277V 1900W @ 120V
	ACUTYCONTROLS	RP116-D-EFP	RIGHT POWER PACK - 16 AMPS SWITCHING LOAD, 0-10V DIMMING OUTPUT, X DESIGNATES RELATED CONTROL GROUP	4400W @ 277V 1900W @ 120V
	ACUTYCONTROLS	RP1P-PD-EFP	RIGHT POWER PACK - 16 AMPS SWITCHING LOAD, PROVIDES PHASE CONTROL DIMMING CONTROL FOR 2-WIRE DIMMING FLUORESCENT, ELECTRONIC LOW VOLTAGE (ELV), INCANDESCENT, TRIAC, FORWARD PHASE, REVERSE PHASE, AND MAGNETIC LOW VOLTAGE (MLV) APPLICATIONS	4400W @ 277V 1900W @ 120V
	ACUTYCONTROLS	nCM-PDT-9-RJB	RIGHT, DUAL TECH OCCUPANCY SENSOR, 12" RADIUS @ 9' CEILING	
	ACUTYCONTROLS	nCM-PDT-8-ADC-RJB	RIGHT, DUAL TECH OCCUPANCY SENSOR, 12" RADIUS @ 9' CEILING, INCLUDES INTEGRAL AUTOMATIC DIMMING CONTROL PHOTOCELL	
	ACUTYCONTROLS	nCM-PDT-10-RJB	RIGHT, DUAL TECH OCCUPANCY SENSOR, 28" RADIUS @ 9' CEILING	
	ACUTYCONTROLS	nCM-ADCX-RJB	RIGHT, AUTOMATIC DIMMING CONTROL PHOTOCELL	

- LIGHTING CONTROLS NOTES:**
- PROVIDE WIRING PER MANUFACTURER WIRING REQUIREMENTS FOR ALL LOW VOLTAGE SENSORS.
 - MATCH DEVICE COLOR WITH NEW WIRING DEVICE COLORING. CONFIRM PRIOR TO ORDERING.
 - INITIALLY ADJUST ALL OCCUPANCY SENSORS TO 20 MINUTES, EXCEPT BATHROOM, WHICH SHALL BE 5 MINUTES.
 - DO NOT INSTALL WALL MOUNTED OCCUPANCY SENSORS BEHIND DOORS. TYPICAL.
 - VERIFY DESIRED PHOTOCELL SENSITIVITY SETTINGS WITH TENANT. ENSURE PHOTOCELL SETTINGS ARE SUCH THAT CONNECTED LIGHT FIXTURES WILL OPERATE AS TENANT DESIRES.
 - IN OPEN CEILING AREAS MOUNT OCCUPANCY SENSORS AND PHOTOCELLS ALIGNED WITH BOTTOM OF LIGHT FIXTURES.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THEY HAVE THE KNOWLEDGE TO PROGRAM THE SPECIFIED LIGHTING CONTROL SYSTEMS. IF NOT, INCLUDE PRICING FOR FACTORY REP COMMISSIONING IN BID.
 - IF LIGHT FIXTURES ARE CHANGED OR FEO, THEN CONTROLS SHALL BE REVISED BY CONTRACTOR AS REQUIRED.
 - LIGHTING FIXTURES AND LIGHTING CONTROLS SHALL BE PROVIDED FROM SAME LIGHTING REP SO THAT LIGHTING REP CAN VERIFY COMPATIBILITY BETWEEN LIGHTING CONTROLS AND LIGHTING FIXTURES. IF CONTRACTOR PROVIDES LIGHTING CONTROLS AND LIGHT FIXTURES FROM DIFFERENT REPRESENTATIVES OR LIGHT FIXTURES FROM THE INTERNET, TOTAL RESPONSIBILITY FOR COMPATIBILITY SHALL FALL ON CONTRACTOR.
 - CONTRACTOR SHALL SUBMIT THE ENGINEERED LIGHTING AND LIGHTING REP SHALL VERIFY THE OCCUPANCY SENSORS/PHOTOCELLS/CONTROLS MEET THE DESIGN INTENT AND CONTROL PER THE ENGINEERS PLANS, PERFORMANCE SPECIFICATION, AND CODES AS PART OF THE BID. THE LIGHTING REP AND CONTRACTOR SHALL INCLUDE ALL ADDITIONAL DEVICES AND ACCESSORIES FOR A FULLY FUNCTIONAL DESIGN BUILD SYSTEM/ SYSTEMS AS REQUIRED. CONTRACTOR SHALL SUBMIT 1/8" SCALE DRAWING FROM MANUFACTURER SHOWING ALL REQUIRED DEVICE LOCATIONS AND DESCRIPTIONS.
 - PROVIDE RETURN AIR PLENUM WIRING IF SPACE ABOVE TENANT CEILING IS A RETURN AIR PLENUM.

LIGHTING CONTROLS SYMBOL LEGEND

NOT TO SCALE

		Lamp Data		Fixture Description	Manufacturer	Fixture Data		Mount	Voltage	Note
Mark	No.	Type				Catalog Number				
L1	#	4187 LUMENS 300K, 300K	2X4 LED TROFFER, 0-10V DIMMING DRIVER, DOWN TO 1%.	LITHONIA		2BLT4-40L-XXX-120-G21-LP385		RECESSED	120	2
L3	#	2500 LUMENS 3000K, 20W	4" SQUARE LED DOWNLIGHT, 0-10V DIMMING DRIVER, DOWN TO 1%.	LITHONIA		LDW4SD-30/25-LS4-XX-LSX-XXX-120-G21		RECESSED	120	2
L4	#	1000 LUMENS 3000K, 10.0LW/HEAD	JUNO TRAC-LITES PROSL SERIES 10W LED CYLINDERS, PROVIDE TRACK HEADS PER PLANS.	JUNO		ABSL-30K-80CRI-MVOLT-PDM-FL-XX		TRACK	120	2
L4T	NA		JUNO TRACK FOR L-4 FIXTURES - CONTRACTOR SHALL CUT TRACKS/LENGTHS ACCORDING TO ARCHITECTS RCP. ALL CONNECTORS, ELECTRICAL FEEDS AND DEAD ENDS SHALL BE DETERMINED PER ARCHITECT'S RCP. VERIFY ALL COLORS AND FINISHES WITH ARCHITECT PRIOR TO ORDERING.	JUNO		TRACK AND CONNECTOR SECTIONS - TRAC-MASTER & TRAC-LITES SYSTEMS		TRACK	120	2
L5	#	1026 LUMENS 4000K, 25W	BUILDING MOUNTED LED SCODCE LIGHT, DIRECT/INDIRECT.	LOWELL		LOWELL-2/9LED38-40K-120-XX-XX		WALL	120	2
L6	#	700 LUMEN 4000K, 9W	EXTERIOR WEATHER RATED LED DOWNLIGHT.	LITHONIA		LB84 NCH-07LM-40K-AR-LSS-WD-120		CANOPY	120	2
L6E	#	700 LUMEN 4000K, 9W	EXTERIOR WEATHER RATED LED DOWNLIGHT. INCLUDE EMERGENCY BATTERY BACKUP.	LITHONIA		LB84 NCH-07LM-40K-AR-LSS-WD-120-E10WCP		CANOPY	120	2
L7B	#	553 LUMENS 3000K, 8.3W	LINGER LED WALL SCODCE	VISUAL COMFORT		PART NUMBER: 700WSLNG1. ARCHITECT TO VERIFY FINISH PRIOR TO ORDERING.		SURFACE	120	2
L8	#	780 LUMENS, 2700K, 14W	SARA GRANDE LED PENDANT, ELV DIMMABLE.	VISUAL COMFORT		PART NUMBER: 720TDSARGP. ARCHITECT TO VERIFY FINISH PRIOR TO ORDERING.		PENDANT	120	2
L9	#	4,488 LUMEN 4000K, 34W	4" LED INDUSTRIAL STRIP.	SLG		TSC-4-45-G1-4000K		PENDANT	120	2
L9E	#	4,488 LUMEN 4000K, 34W	4" LED INDUSTRIAL STRIP. INCLUDE 8W EMERGENCY BATTERY BACKUP.	SLG		TSC-4-45-G1-4000K-EMD-DH08D-UNV-055		PENDANT	120	2
L11	#	2,800 LUMEN 2700K, 32W	8 LIGHT LED CURLIEUC FXTURE.	MAXIM LIGHTING		ITEM#: MDL1723638		PENDANT	120	2
L12	#	2855 LUMEN 3000K, 34W	INWIE LED PENDANT. 0-10V DIMMING DRIVER, DOWN TO 1%.	BROWNLEE		2680-16-WH-R34-WH-CC1-WHC-35K-90R		PENDANT	120	2
X	#	LED	LED EXIT SIGN WITH BATTERY BACKUP, WHITE WITH RED LETTERING	LITHONIA		EXRG-EL-M6		SURFACE	120	2
X1	#2	1100 LUMENS 11W LED	2-HEADED THERMOPLASTIC LED EMERGENCY LIGHT WITH BATTERY PACK	LITHONIA		ELMRE-SP1100L-X-T-BA4		SURFACE	120	2

- LIGHTING FIXTURE SCHEDULE NOTES:**
(NOTE: NOTES APPLY TO ALL FIXTURES ABOVE. SOME ARE HIGHLIGHTED FOR EMPHASIS. HOWEVER, ALL NOTES APPLY. ANY ENGINEER IF THERE ARE ANY CONFLICTS, THAT IS WHY IT IS IMPORTANT TO ALWAYS SUBMIT SHOP DRAWINGS PRIOR TO ORDERING TO AVOID ISSUES.)
- NO SUBSTITUTIONS.
 - ACCEPTABLE SUBSTITUTIONS BY LANDREY, SESCO, FLORIDA LIGHTING ASSOCIATES, AND LIGHTING PARTNERS. VERIFY WITH ARCHITECT IF THERE ARE ANY FIXTURES FOR WHICH NO SUBSTITUTIONS ARE ALLOWED.
 - DO NOT ORDER LIGHT FIXTURES UNTIL ARCHITECT, CLIENT, OR TENANT HAVE SELECTED KELVIN TEMPERATURES AS KELVIN TEMPERATURES LISTED IN LIGHTING FIXTURE SCHEDULE ARE NOT INTENDED TO BE THE FINAL KELVIN TEMPERATURES TO BE ORDERED. NOTE: KELVIN TEMPERATURE ABOVE IS PLACEHOLDER ONLY. FINAL KELVIN TEMPERATURE WILL BE DETERMINED BY ARCHITECT, CLIENT, OR OTHERS PRIOR TO ORDERING, DURING SHOP DRAWING REVIEW.
 - ALL FINISHES, COLORS, LENS TYPES, MOUNTING OPTIONS, AND ANY OTHER AESTHETIC ELEMENTS OF LIGHTING FIXTURES SHALL BE SELECTED BY ARCHITECT. VERIFY THESE REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING. TYPICAL.
 - ALL EMERGENCY BATTERY BALLASTS SHALL BE FACTORY INSTALLED.
 - WHERE TENANT SELECTED LIGHT FIXTURES ARE INDICATED CONTRACTOR SHALL COORDINATE WITH TENANT AND SUBMIT WITH SHOP DRAWINGS.
 - CONTRACTOR'S BID SHALL INCLUDE SHIPPING/DELIVERY TIMES FOR EACH LIGHT FIXTURE TO IDENTIFY ANY LIGHT FIXTURES WITH POSSIBLE DELIVERY TIME ISSUES UP FRONT.
 - ALL LIGHT FIXTURES WITH SYMBOL ON PLANS INDICATING FIXTURE IS AN EMERGENCY LIGHT FIXTURE SHALL HAVE 1400 LUMEN EMERGENCY INVERTER BATTERIES INSTALLED IN LIGHT FIXTURE UNLESS LIGHT FIXTURE(S) IS SPECIFICALLY CONNECTED TO AN EMERGENCY GENERATOR LIGHTING CIRCUIT.
 - WHERE ACCESS PANELS ARE REQUIRED FOR LIGHTING, CONTRACTOR SHALL INCLUDE ALL ACCESS PANELS AS REQUIRED. THIS INCLUDES BUT IS NOT LIMITED TO, ACCESS PANELS IN HARD CEILINGS THAT ARE REQUIRED FOR EMERGENCY LIGHT FIXTURES.
 - OPEN CEILING AREAS: LIGHTING FIXTURE AND OCCUPANCY SENSORS SHALL BE PENDANT MOUNTED TO ALIGN WITH BOTTOM OF DUCTWORK, LOWEST STRUCTURAL MEMBER, ETC.

LIGHTING FIXTURE SCHEDULE

NOT TO SCALE



- FEATURES & SPECIFICATIONS**
- WITHIN USE:** — Typical applications include corridors, lobbies, conference rooms and private offices.
- CONSTRUCTION:** — New Construction.
- Optional gof ring available for additional overlap trim coverage.
- 1/2" x 1/2" ceiling thickness
- 25° ambient temperature
- K rated up to 9000m
- OPTICS:** — LEDs are bonded to a 3-step MacKden Ellipse .55" cut-off
- New construction fixture approved for 8 (4 to 4) No. 12 AWG conductors rated for 90°C through wiring.
- NEC standard (NEC) optional
- UGR:** — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg, per CE 117-1996
- Discomfort Glare in Interior Lighting (UGI 150)
- ELECTRICAL:** — Adjustable lumen output with four module options. Fixed lumen options also available.
- Model 120-277V 240/850 driver (0-10V & 0-10V Phase Dimming to 10% or 1% min dimming level)
- FCC CR154-47 Part 15 Class A or 27.6 CC CR154-47 Part 15 Class B or 120W
- LUMEN MAINTENANCE:** — L80 at 60,000 hours
- LISTINGS:** — Certified to US and Canadian safety standards. Dump location standard (Vest Location (VLI) optional, requires covered ceiling. Some configurations are UL1009 "STAMP" certified, please visit www.lithonia.com for specific products. TMA compliant. ULF (0-10V) 47 specification compliant for power factor and THD. CSA PMS 2.4 compliant for power quality at full output compliant up to 2000W at fully dimmed output. Drivers are RHO compliant.
- Take 24 compliant (THD), up to 1000Hz.
- WARRANTY:** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.lithonia.com/support/warranty/terms-and-conditions
- Note:** Actual performance may differ as a result of end-user environment and application.
- All values are design or typical values, measured under laboratory conditions at 25 °C.
- Specifications subject to change without notice.

		BACN							
LBR4N LSS MWID		30W/80CRI		30W/80CRI		40W/80CRI		50W/80CRI	
Lumen Output	Wattage	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
A01 (200LM)	6	529	89	584	97	597	99	586	98
A01 (750LM)	9	863	160	924	164	946	165	975	188
A01 (1000LM)	11	1168	107	1207	109	1238	112	1268	114
A01 (1000LM)	13	1344	108	1375	110	1488	112	1463	115
A01 (1000LM)	19	1961	105	2007	106	2055	108	2118	111
A01 (2000LM)	25	2671	107	2738	110	2788	111	2848	115
A01 (2000LM)	25	2542	103	2601	104	2663	106	2745	109
A01 (2500LM)	32	3569	112	3640	114	3734	117	3734	118
A01 (2500LM)	38	3463	91	3566	94	3671	96	3784	98
A01 (2500LM)	39	4094	105	4178	106	4262	110	4365	111
A04 (4000LM)	44	4318	102	4411	105	4502	107	4598	108
A04 (5000LM)	49	4915	108	5015	102	5115	104	5165	105

		BACN							
LBR4NS MWID		30W/80CRI		30W/80CRI		40W/80CRI		50W/80CRI	
Lumen Output	Wattage	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
A01 (200LM)	6	479	83	490	85	502	87	517	89
A01 (750LM)	9	728	85	75	87	796	88	819	92
A01 (1000LM)	11	1045	82	1089	84	1115	86	1150	89
A01 (1000LM)	13	1159	90	1155	92	1162	93	1179	98
A01 (1000LM)	19	1644	87	1666	89	1706	91	1779	94
A01 (2000LM)	25	2075	83	2124	85	2174	87	2241	90
A01 (2000LM)	25	2215	86	2265	88	2317	90	2386	93
A01 (2500LM)	32	2278	82	2338	83	2390	85	2464	88
A01 (2500LM)	38	2827	78	2895	79	2966	81	3162	84
A04 (4000LM)	39	3893	89	3918	91	3960	92	4015	91
A04 (5000LM)	44	3796	86	3873	88	3951	90	3989	91
A04 (5000LM)	49	4328	84	4373	85	4427	87	4499	88

• Tested in accordance with IESNA LM-79-06.

• Based on current E2 and BACN standards under stabilized laboratory conditions.

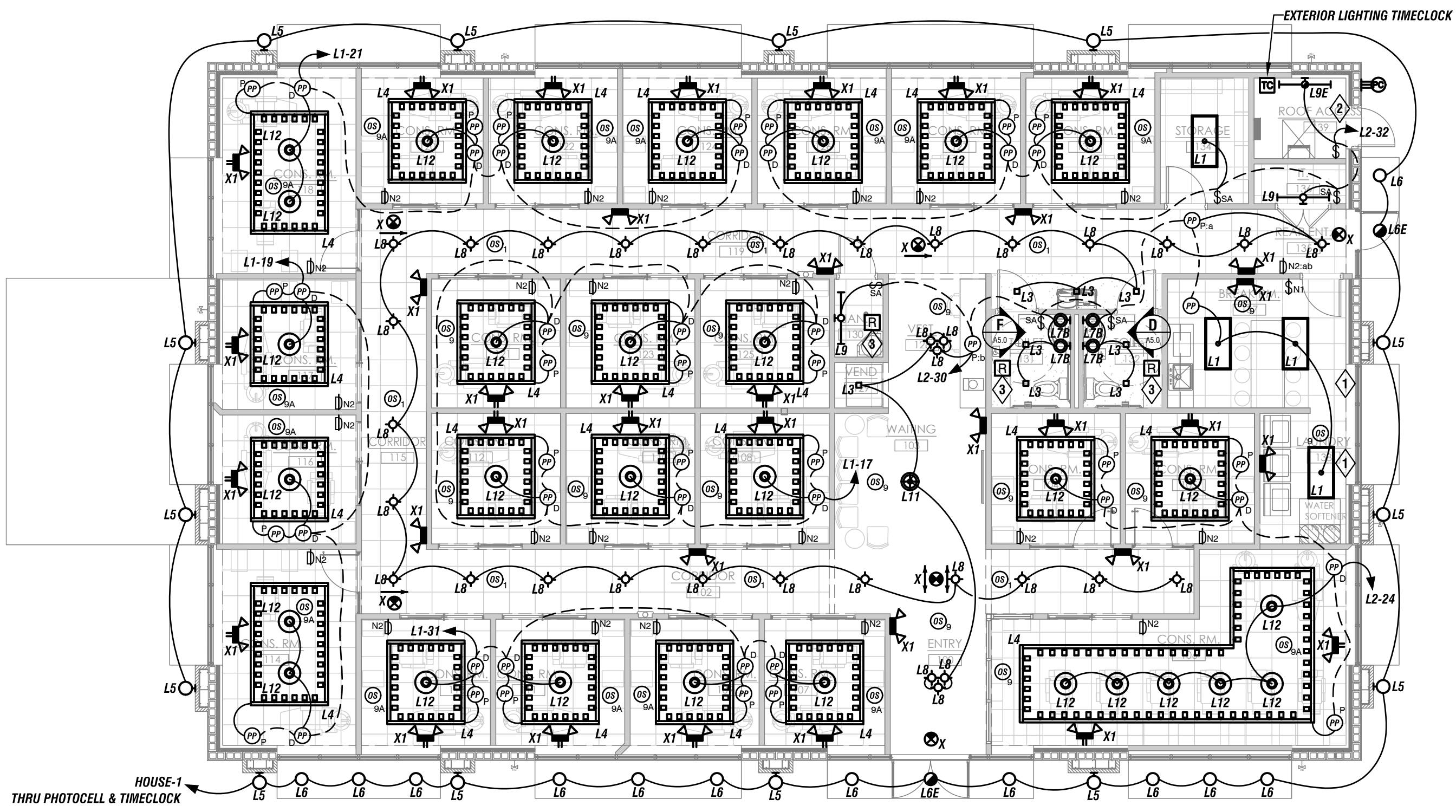
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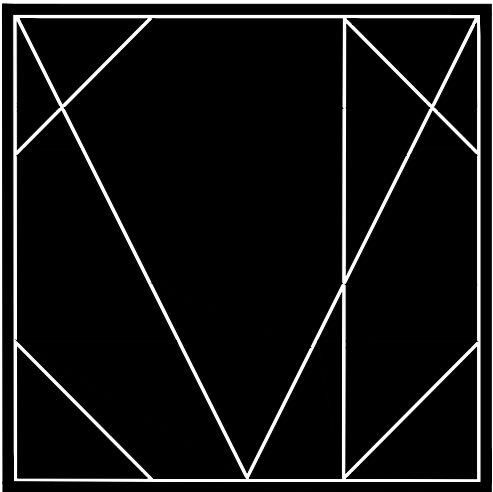
FOR LAKE MARY REVIEW ONLY LIGHTING FIXTURE CUT SHEETS

**FIXTURE TYPE 'L6/L6E' -
FOR LAKE MARY REVIEW ONLY
PLEASE SEE SITE PERMIT FOR
COMPOSITE SITE PHOTOMETRICS**

FOR LAKE MARY REVIEW ONLY LIGHTING FIXTURE CUT SHEETS

**FIXTURE TYPE 'L5' -
FOR LAKE MARY REVIEW ONLY
PLEASE SEE SITE PERMIT FOR
COMPOSITE SITE PHOTOMETRICS**





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ARCHITECT OF RECORD
FRANK W. CAMPBELL AIA
FL LIC NO. AR0016053

COPY OF THIS PLAN IS NOT VALID UNLESS SIGNED,
SEALED AND DATED BY THE ARCHITECT OF RECORD.

SEAL



THAT ALL MATERIAL WITHIN ABOVE CEILING PLENUM SHALL MEET ASTM E84 OR UL723 STANDARDS 25/50 AND SHALL BE LISTED AND LABELED 602.2.1 MATERIALS WITHIN PLENUMS, EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.7, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

PROVIDE (2) 2" C.W. FROM EXTERIOR COMM CABINET. THE (1) 2" C. SHALL BE ROUTED TO TELEPHONE DEMARCATION AT ROAD. THE OTHER (1) 2" C. SHALL BE ROUTED TO CABLE TV DEMARCATION LOCATION IN FIELD TO FIELD LOCATION. FOR BIDDING PURPOSES USE 200' IF NOT KNOWN AT TIME OF BID. ALL CONDUIT SWEEP BENDS WITH RADIUS OF AT LEAST 10X THE CONDUIT DIAMETER. PROVIDE 20LB TIE PULL WIRE/TWINE IN EACH CONDUIT. DO NOT EXCEED 360° BENDS BETWEEN PULL BOXES. PROVIDE PULL BOXES SIZED PER NEC AS REQUIRED. IN GROUND CONDUIT, BURY AT DEPTH BETWEEN 24" AND 36" PER NEC DEPTH REQUIREMENTS SEAL, CAP, MARK AND TURN UP CONDUITS AT BOTH ENDS OR PER FIELD REQUIREMENTS.



AE
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PROJECT DESCRIPTION:
A NEW OFFICE BUILDING FOR
PROVIDENCE ONE PARTNERS
BUILDING - 01
11145 BUSINESS PARK LANE
HEATHROW, FLORIDA 32746

[illegible]

PROJECT MANAGER
Z. AMATUCCI, K. BURKUM

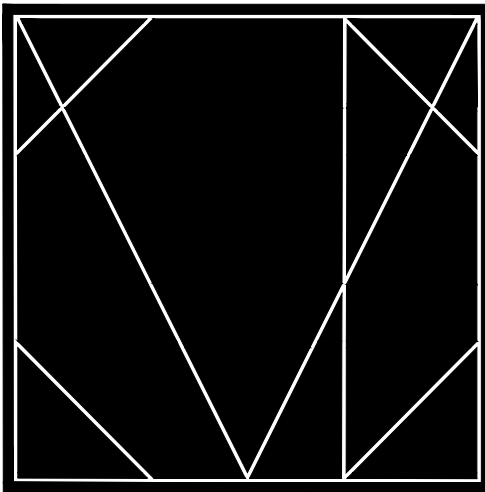
PROVIDENCE ONE PARTNERS

24-0919-01

SHEET TITLE

POWER AND SYSTEMS
PLAN

E102



CAMPBELL + VAN DUSEN
ARCHITECTURE INTERIOR DESIGN

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This item has been digitally signed
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PROJECT DESCRIPTION:
A NEW OFFICE BUILDING FOR
PROVIDENCE ONE PARTNERS
BUILDING - 01
1145 BUSINESS PARK LANE
HEATHROW, FLORIDA 32746

DATE FOR

CONSTRUCTION

DATE
10.21.2025

NO. DESCRIPTION DATE

PROJECT TEAM

PROJECT MANAGER
G. SIGLE

PROJECT MANAGER
Z. AMATUCCI, K. BURKUM

CLIENT NAME

PROVIDENCE ONE
PARTNERS

PROJECT NUMBER

24-0919-01

DATE

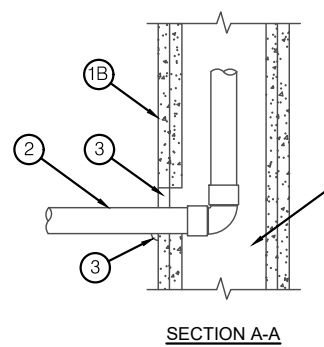
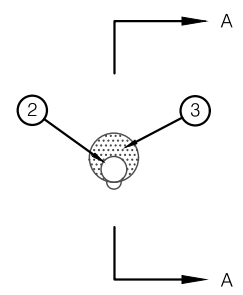
UL PENETRATION DETAILS

2442-EDTL

ARCHITECTURAL
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EBN # 9582

E501

System No. W-L-1527 August 24, 2016	
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
L Rating At Ambient — Less Than 1 CFM/sq ft	FTH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 1 and 2 Hr (See Item 1)
	L Rating At Ambient — Less Than 5.1 L/s/m2
	L Rating At 400 F — Less Than 5.1 L/s/m2



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board - One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

The hourly F, T, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Metallic Penetrant - One metallic pipe, conduit or tube to be installed either concentrically or eccentrically, penetrating wall assembly on one side of wall. The annular space between the pipe, conduit or tubing and the periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tubing shall be rigidly supported within the wall and on the penetrated side of the wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. Iron Pipe - Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit - Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

D. Copper Tubing - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material - Sealant - Min 5/8in. (16 mm) thickness of fill material applied within annulus, flush with surface of wall assembly. At point contact location, min 3/8 in. (10 mm) diam bead of fill material to be applied at the penetrant/gypsum board interface.
SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-08-24

Design/System/Construction/Assembly Usage Disclaimer

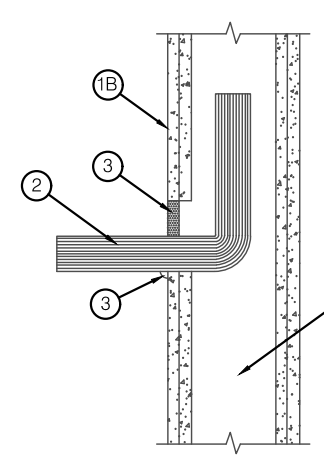
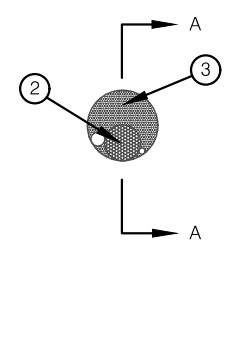
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

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UL PENETRATION DETAILS

NOT TO SCALE

System No. W-L-3427 August 24, 2016	
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/4 Hr	FT Ratings — 1/4 Hr
	FTH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 1/4 Hr



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board - One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cables - One or more individual cables or max 1-1/2 in. (38 mm) diam tight bundle of cables to be installed either concentrically or eccentrically, penetrating wall assembly on one side of wall. The annular space between the cables and the periphery of opening shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Cables shall be rigidly supported within the wall and on the penetrated side of the wall assembly. Any combination of the following types and sizes of cables may be used:

Through-penetration Firestop Systems: XHEZ-WL-3427 - UL Product Spec

A. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.

B. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.

C. Max 62 5/48 fiber optic cable with PVC or plenum-rated insulation and jacketing.

D. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC or plenum-rated insulation and jacket.

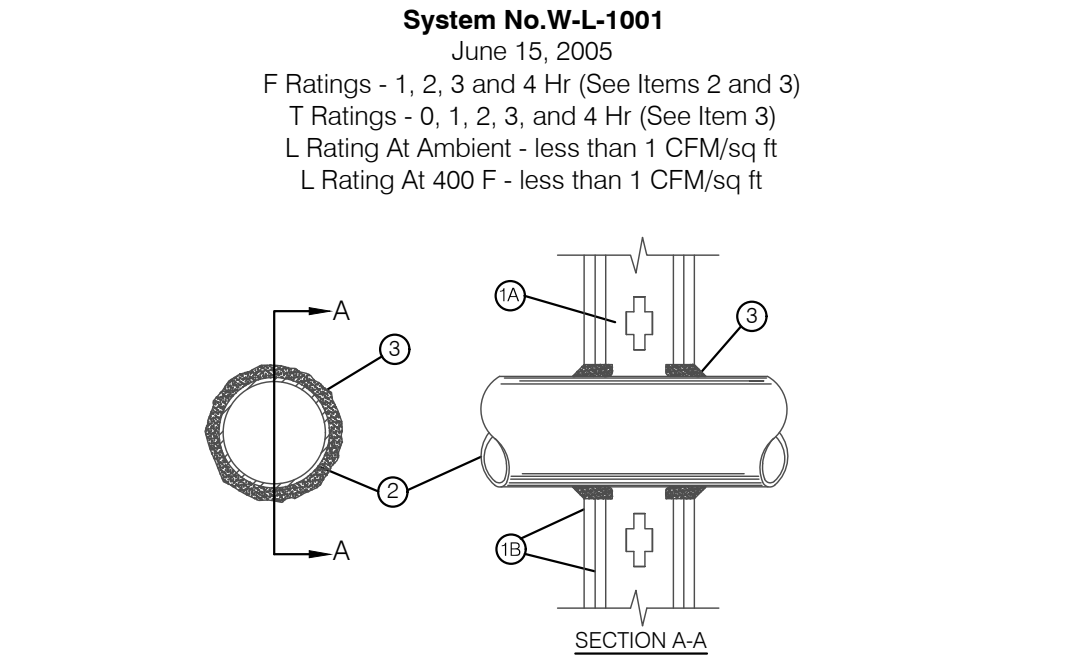
E. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad or Armored-Clad cable.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

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1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 28 in. (686 mm).

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

4. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

5. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

6. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

7. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

8. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

9. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

10. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

11. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

12. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

13. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

14. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

15. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

16. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

17. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

18. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

19. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

20. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

21. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

22. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

23. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

24. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

25. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

26. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

27. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

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29. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

30. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

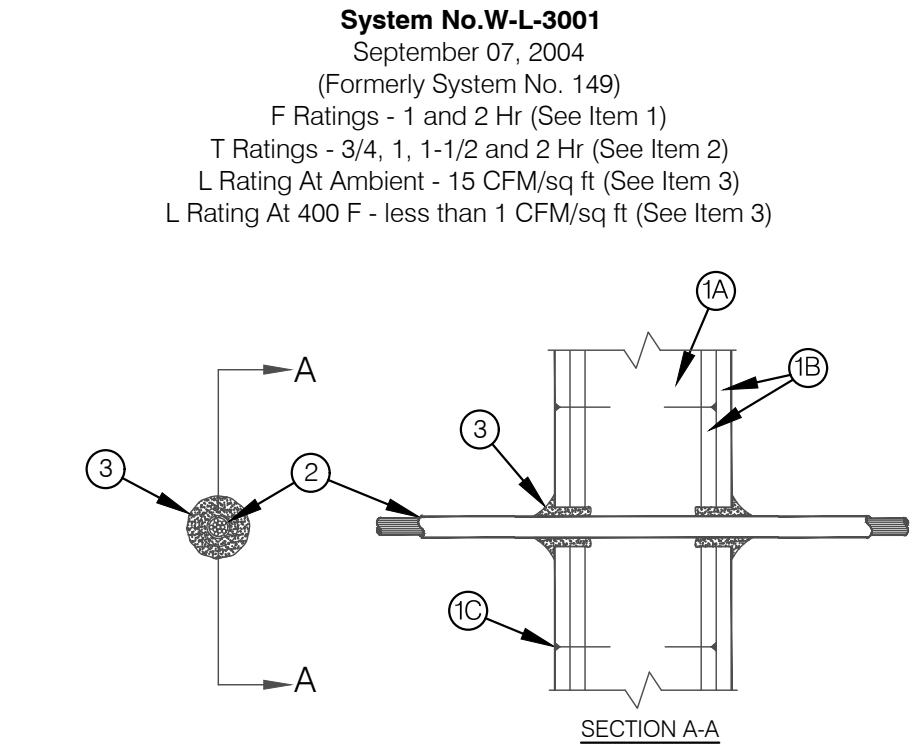
31. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

32. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

33. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

34. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

35. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.



1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and sheet orientation shall be as specified in the individual Wall or Partition Design. Max diam of opening is 28 in. (686 mm).

C. Fasteners - When wood stud framing is employed gypsum wallboard layers attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type 5 self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cable - Individual cable or max 1 in. diam cable bundle installed in through opening with an annular space of min 0 in. (point contact) to max 3/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

A. Max 150 pair No. 24 AWG copper conductor telephone cable with polyvinyl chloride (PVC) insulation and jacket materials. When 25 pair telephone cable is used.

T Rating is 2 hr. When 50 to 150 pair telephone cable is used in 1 hr fire rated wall, T Rating is 3/4 hr. When 50 to 150 pair telephone cable is used in 2 hr fire rated wall, T Rating is 1 hr.

When Type NM cable is used, max T Rating is 1-1/2 hr.

When fiber optic cable is used, max T Rating is 2 hr.

When multi conductor power/control cable is used, max T Rating is 2 hr.

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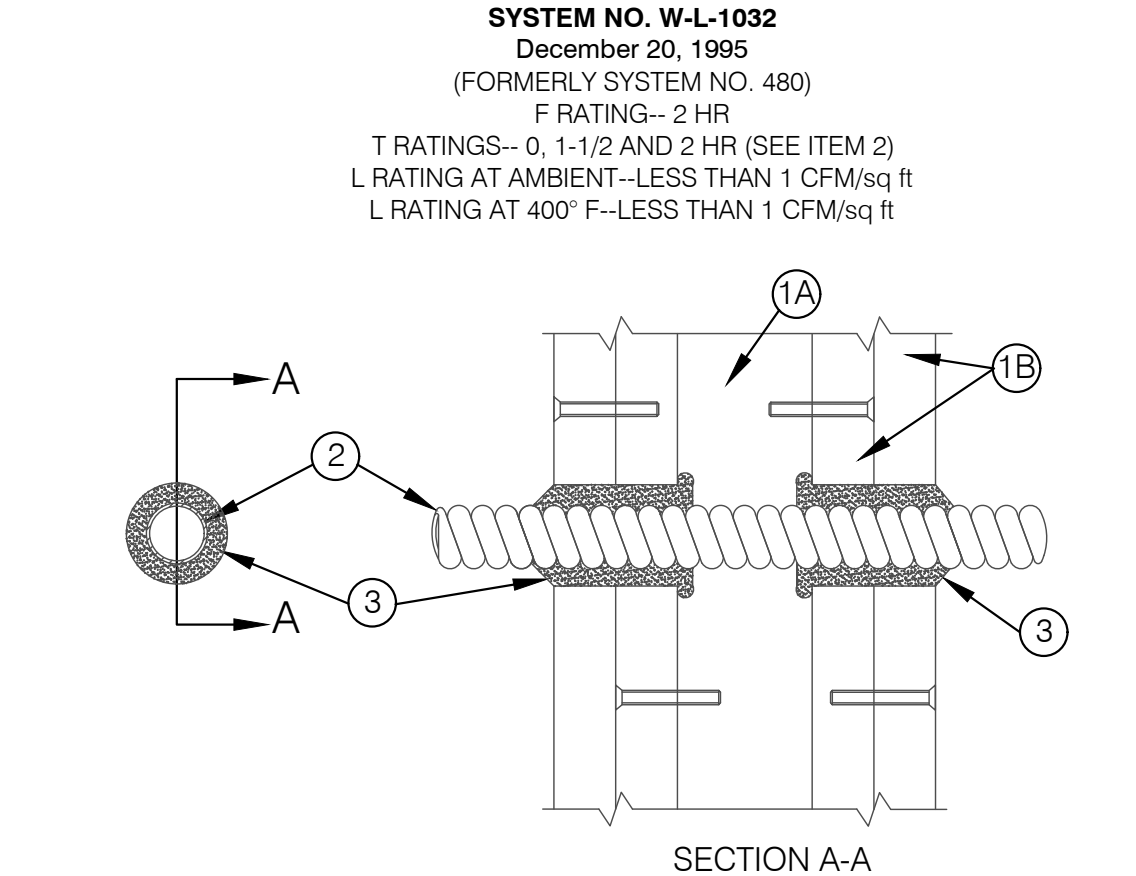
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1. Wall Assembly - The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 and U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board - Two layers of nom 4 ft wide by 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition design. Max diam of opening is 3 in.

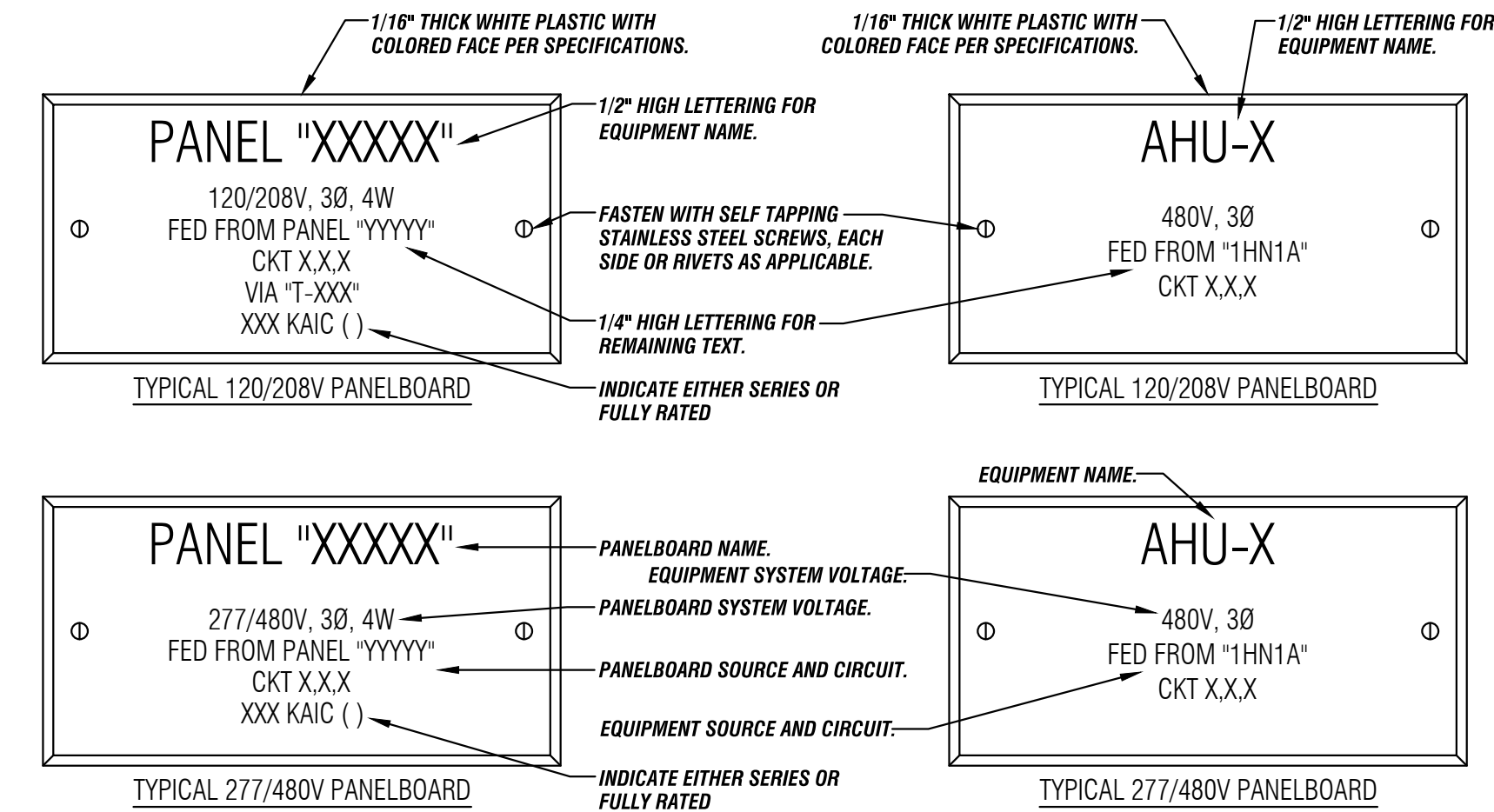
2. Through Penetrating Product - Flexible Metal Conduit - Nom 2 in. diam (or smaller) aluminum Flexible Metal Conduit - Max one flexible metal conduit installed near center of through opening in gypsum wallboard layers. Diam of opening cut through both layers of gypsum wallboard on each side of wall to min 1-1/4 in. to max 1 in. larger than diam of flexible metal conduit. When nom 1-1/4 in. to 2 in. diam conduit is used, T Rating is 0 hr. When nom 1/2 in. to 1 in. diam conduit is used, T Rating is 1-1/2 hr. When nom 3/8 in. diam conduit is used, T Rating is 2 hr. Flexible metal conduit to be rigidly supported on both sides of wall assembly.

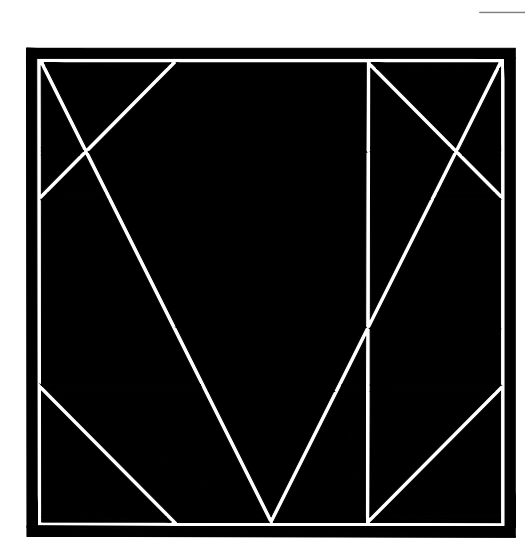
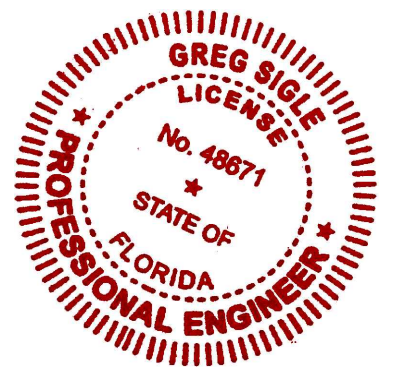
3. Fill/Void or Cavity Material - Caulk - Caulk fill material forced into annular space around entire circumference of flexible metal conduit to completely fill nom 1-1/4 in. deep annulus in gypsum wallboard layers on each side of the wall assembly.

MINNESOTA MINING & MFG CO - CP 25WB+ - *Bearing the UL Classification Marking

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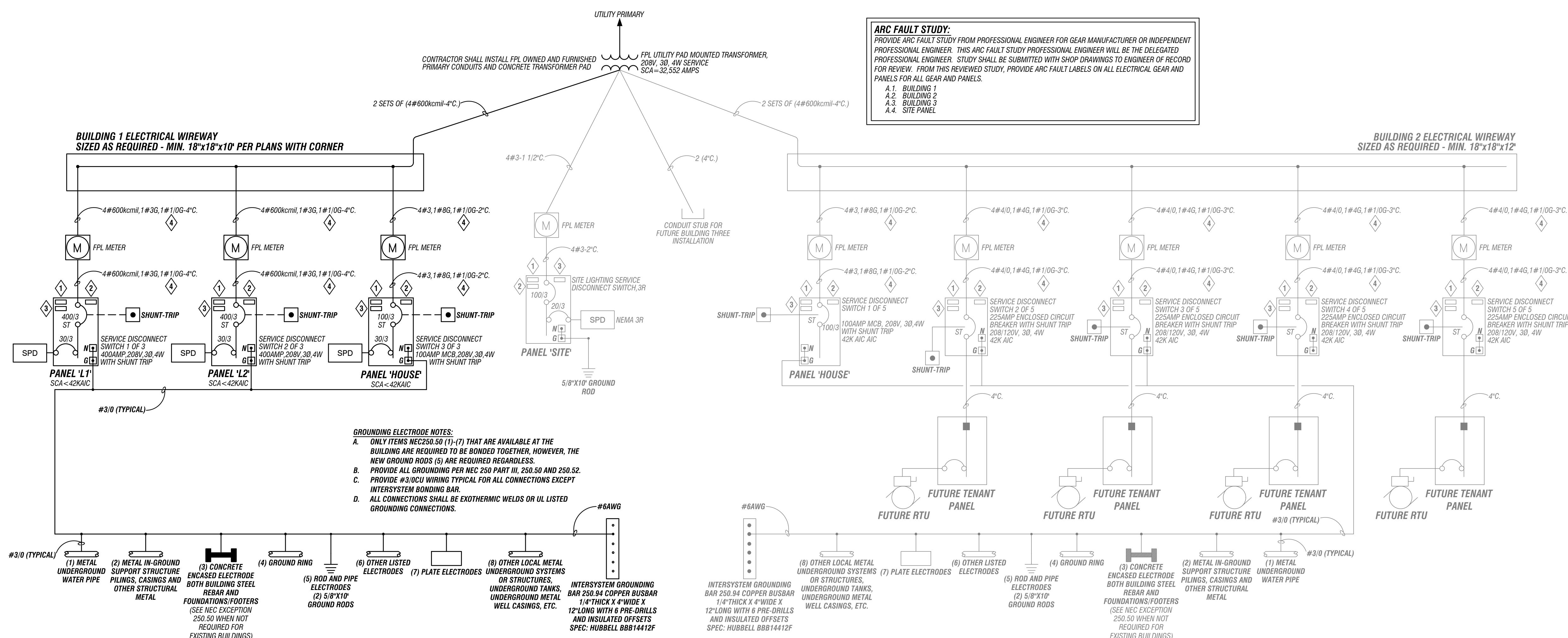




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POWER ONE-LINE DIAGRAM

- NOT TO SCALE
- ENGRAVED PLAQUE STATING SHORT CIRCUIT CURRENT.
 - ENGRAVED PLAQUE "SERVICE DISCONNECT SWITCH"
 - ARC FLASH STUDY CALCULATION STICKER (TYPICAL FOR ALL PANELBOARD AND DISCONNECT SWITCHES)
 - #3/0 AWG IS A BONDING GROUND FROM METER TO DISCONNECT SWITCH IF METER SOCKET GROUND BUS IS NOT EQUIPPED FOR A #1/0G. THE #1/0G WILL BE ROUTED FROM WIREWAY TO DISCONNECT SWITCH THRU METER SOCKET WITHOUT A CONNECTION IN METER SOCKET.

VOLTS: 208/120

PHASE: 3Ø, 4W

BUS RATING: 400A MCB W/ST

SINGLE SECT: 54 CIRCUIT VERTICAL

GROUND BUS: YES

MOUNTING: SURFACE

PANEL L1

NEW

42K AIC

SOURCE: SEE POWER ONE-LINE

KVA 90.7

AMPS 251.7

CONN. LOAD 73.0

DEMAND LOAD 202.4

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