

	FIRE ALARM	
		FIRE ALARM CONTROL PANEL.
		SLC DEVICES:
TYPE.	F	MANUAL PULL STATION. MNT WITH TOP AT 48" AFF.
		HEAT DETECTOR. CEILING MOUNT.
		COMBINATION PHOTOELECTRIC SMOKE & CARBON MONOXIDE DETECTOR. CEILING MOUNT.
R, ABOVE CEILING OR IN WALL.		DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY ELEC, INSTALLED BY MECH AND
D TEXT INDICATES PANEL & CIRCUIT DESIGNATION.		CONNECTED BY ELEC.
	RA	ADDRESSABLE RELAY. AHU SHUTDOWN.
		ADDRESSABLE RELAY. INTERFACE WITH LIGHTING TO TURN LIGHTING ON DURING ALARM.
COLOR = FIXTURE SHALL HAVE A BATTERY PACK AND IS		MONITOR MODULE CONNECTED TO FLOW SWITCH.
		MONITOR MODULE CONNECTED TO TAMPER SWITCH.
RE SCHEDULE FOR DESCRIPTIONS. TEXT INDICATES AS FOLLOWS:		MONITOR MODULE CONNECTED TO PRESSURE SWITCH.
	HA	MONITOR MODULE CONNECTED TO HOOD ALARM SYSTEM.
		NAC DEVICES:
	75cd	WALL MOUNTED NOTIFICATION DEVICE. "AV" INDICATES AUDIO-VISUAL DEVICE, "V" INDICATES VISUAL ONLY DEVICE, "A" INDICATES AUDIO ONLY DEVICE. MOUNT BOTTOM OF DEVICE AT 80" AFF (OR WITHIN 6" OF CEILING FOR CEILINGS BELOW 86"). ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT INDICATES STROBE CANDELA RATING.
DN. MOUNT 48" AFF TO TOP UNO. SUBSCRIPT (IF SHOWN) INDICATES IT IS ASSOCIATED WITH. LETTER/NUMBER INDICATES AS FOLLOWS: I, # INDICATES QTY OF BUTTONS/ZONES. R SWITCH, # INDICATES QTY OF BUTTONS/ZONES. OR (DUAL TECHNOLOGY) SWITCH, # INDICATES QTY OF BUTTONS.		CEILING OR PENDANT MOUNTED NOTIFICATION DEVICE. "AV" INDICATES AUDIO-VISUAL DEVICE, "V" INDICATES VISUAL ONLY DEVICE, "A" INDICATES AUDIO ONLY DEVICE. SURFACE MOUNT IN DROP CELINGS, PENDANT MOUNT IN EXPOSED STRUCTURE CEILINGS. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT INDICATES STROBE CANDELA RATING.
 DR (DUAL TECHNOLOGY) SWITCH, # INDICATES QTY OF BUTTONS.	TELECOM	
DFF. DLTAGE 360° OCCUPANCY/VACANCY OR DAYLIGHT SENSOR. M NUMBER OF ROOM CONTROLLER IT IS ASSOCIATED WITH. LETTERS	⊳	ROUGH-IN FOR COMMUNICATIONS OUTLET (CO). MOUNT ON WALL AT 18" AFF UNLESS SUBSCRIPTED OTHERWISE. INCLUDE 1" EMT FROM ROUGH-IN BOX STUBBED ABOVE CEILING. TERMINATE WITH BUSHING AND PROVIDE PULL STRING.
	₽	ROUGH-IN FOR COMMUNICATIONS OUTLET (CO). MOUNT ABOVE COUNTER. INCLUDE 1" EMT FROM ROUGH-IN BOX STUBBED ABOVE CEILING. TERMINATE WITH BUSHING AND PROVIDE PULL STRING.
OWN) INDICATES ROOM NUMBER IT IS ASSOCIATED WITH.	ANNOTATIONS	
		KEY NOTE TAG. SEE KEY NOTES.
		BOLD UNDERLINED TEXT ADJACENT TO PLAN SYMBOL INDICATES ELECTRICAL OR MECHANICAL EQUIPMENT IDENTIFICATION TAG. TYPICAL FOR PANELS, LIGHT FIXTURES, FLOORBOXES, TRANSFORMERS, AHUS, ETC.
		FOR MECHANICAL EQUIPMENT IDENTIFICATION TAG SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
		LEADER.
	0	LEADER.

	10. SAFETY SWITCHES:	
ROUND USE SHALL BE 1/2".	A. HEAVY DUTY, VISIBLE BLADE, LOCKABLE, QUICK-MAKE/QUICK-BREAK, HORSEPOWER RATED, FUSED WHERE INDICATED.	
FOLLOWS:	B. PROVIDE WITH GROUND LUG KIT.	
-1/2" SHALL BE RGS.	C. INTERIOR - NEMA 1.	
RGS.	D. EXTERIOR - NEMA 3R.	
OW GRADE - RNC.	E. APPROVED MANUFACTURERS:	
ICAL ABUSE - RGS.	a. SQUARE D	
PHYSICAL ABUSE OR WEATHER - EMT.	b. GENERAL ELECTRIC	
ICAL ABUSE - EMT.	c. EATON	
) VIBRATING EQUIPMENT (TRANSFORMERS, PUMPS, AIR HANDLERS, EXHAUST FANS,	d. SIEMENS	
FLEXIBLE (MAX LENGTH 3 FEET).	11. PANELBOARDS:	
OWS:	A. FRONT ACCESSIBLE, BOLT-ON MOLDED CASE C/Bs, COPPER PHASE & NEUTRAL BUSSING, COPPER GROUND BAR, FULLY	(
STEEL, CONNECTORS SHALL HAVE WITH INSULATED THROATS.	RATED (SERIES RATING NOT ALLOWED).	
EEL.	B. ENCLOSURES SHALL BE HINGED FRONT CONSTRUCTION.	
SE.	C. INTERIOR - NEMA 1.	
DMIUM-PLATED MALLEABLE IRON SCREW TYPE WITH INSULATED THROAT.	D. EXTERIOR - NEMA 3R.	
BLE IRON OR STEEL COMPRESSION TYPE WITH INSULATED THROAT.	E. PROVIDE TYPE-WRITTEN DIRECTORY IN CLEAR SLEEVE ON INSIDE OF DOOR.	
1/2" DEEP MINIMUM (2-1/8" DEEP FOR TELCOM AND AV SYSTEM BOXES).	F. SPD WHERE SPECIFIED SHALL BE INTEGRAL TO PANELBOARD.	
RK CLOSELY WITH THE MASONRY CONTRACTOR ON THE INSTALLATION OF ALL	G. APPROVED MANUFACTURERS:	
5, ETC. IN MASONRY WALLS. THE BOXES SHALL BE INSTALLED AT THE UNIFORM	a. SQUARE D	
NGS AND SPECIFICATIONS. PROVIDE APPROPRIATE DEPTH MASONRY RINGS FOR ALL	b. GENERAL ELECTRIC	
IRE PROPER CUTTING AND FITTING. THE FACE OF THE CABINETS, BOXES, RINGS,	c. EATON	
H THE FACE OF THE FINISH MATERIAL. ANY CABINET, OUTLET BOX, ETC. NOT	d. SIEMENS	
HALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.	12. LIGHTING:	

F. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC. BUILT IN OR MOUNTED ON CEILINGS. NO OUTLET BOX, DEVICE, LIGHT FIXTURE, ETC. SHALL BE SUPPORTED FROM ANY ACOUSTICAL CEILING TILE OR DRYWALL CEILINGS. PROVIDE METAL SUPPORTS THAT ARE MADE FOR USE WITH CEILING GRID SYSTEMS OR PROVIDE HANGERS FROM STRUCTURE ABOVE. G. JUNCTION BOXES LOCATED ABOVE CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER

H. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.

a. PROVIDE ENGRAVED PHENOLIC LABELS FOR ALL PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, CABINETS,

a. PAINT THE RACEWAY SYSTEMS COUPLINGS AND BOX COVERS UNIQUE COLORS PER OWNER INPUT. b. BRANCH CKT BOX COVERS: WRITE THE PANEL & CIRCUIT NUMBER (I.E. "LPA-CKT#34,36") USING "SHARPIE" PEN.

a. DEVICES: WRITE PNL AND CKT ON DEVICE AND INSIDE BOX USING "SHARPIE" PEN SUCH THAT IT CAN BE READ WITH

B. RECEPTACLES - SPECIFICATION GRADE, 20 AMP, NEMA 5-20R. HUBBELL HBL5362, LEVITON 5362 OR P&S 5362A, NO EQUALS.

SPECIAL RECEPTACLES - PER THE DRAWINGS, VERIFY WITH EQUIPMENT BEING SUPPLIED. DEVICES AND COVER PLATES SHALL BE WHITE OR AS DIRECTED BY ARCHITECT/ENGINEER.

- A. SEE LIGHT FIXTURE SCHEDULE.
- B. PROVIDE A 6'-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.
- C. FOR FIXTURES IN LAY-IN CEILINGS, PROVIDE WIRE SUPPORTS AT OPPOSITE CORNERS OF FIXTURE SEPARATE FROM LAY-IN CEILING WIRE SUPPORTS.
- . PROVIDE ALL 0-10V DIMMING WIRES AS REQUIRED.
- 13. DIGITAL LIGHTING CONTROLS: A. PROVIDE A COMPLETE CAT5/CAT6 CONNECTED DIGITAL LIGHTING CONTROL SYSTEM PROGRAMMED AS REQUIRED FOR PROPER OPERATION.
- BASIS OF DESIGN: WATTSTOPPER DLM. C. OTHER APPROVED MANUFACTURERS:
- a. HUBBELL NX 14. FIRE ALARM SYSTEM:
- A. FACP:

a. MULTIPLEXED ADDRESSABLE INTELLIGENT CONTROL PANEL WITH LCD DISPLAY, OPERATOR INTERFACE, UL 864 LISTED, SUPPORTS INDIVIDUAL ANALOG SENSING, PROGRAMMABLE SENSITIVITY, SENSOR STATUS. B. SLC/INITIATING DEVICES & CIRCUITING:

- a. ALL INITIATING DEVICES SHALL BE INTELLIGENT ADDRESSABLE DEVICES. PULL STATIONS SHALL BE SINGLE ACTION TYPE, SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE, DUCT SMOKE DETECTORS SHALL BE SAMPLE TUBE TYPE. PROVIDE REMOTE INDICATORS FOR ALL DUCT SMOKE DETECTORS NOT IN PLAIN SIGHT FROM FLOOR LEVEL. b. DO NOT LOAD ANY SLC CONTROLLER MORE THAN 75% OF ITS ALLOWABLE DEVICE LIMIT. c. PULL STATIONS SHALL BE MOUNTED 48" AFF TO CENTER, STROBES SHALL BE MOUNTED 80" AFF TO BOTTOM OF
- STROBE LENS OR MOUNTED TO THE CEILING (REFER TO FLOOR PLANS FOR LOCATIONS). d. SLC CABLES SHALL BE #18AWG TWISTED PAIR MINIMUM.
- C. NAC DEVICES & CIRCUITING: a. DO NOT LOAD ANY NAC CONTROLLER MORE THAN 75% OF ITS ALLOWABLE CAPACITY. NAC CABLES SHALL BE #14AWG MINIMUM.
- D. GENERAL:
- a. TAG ALL CIRCUITS IN CABINETS AND JUNCTION LOCATIONS. b. ALL CABLES SHALL BE IN CONDUIT DEDICATED TO THE FIRE ALARM SYSTEM. MINIMUM SIZE IS 3/4".
- c. ALL TERMINATIONS SHALL BE UNDER SCREW TERMINALS. WIRE NUTS SHALL NOT BE USED.
- d. TEST, CERTIFY & DOCUMENT IN COMPLIANCE WITH NFPA 72. E. APPROVED MANUFACTURERS
- a. EST.
- b. NOTIFIER. c. SIMPLEX.
- STRUCTURED CABLING SYSTEM:

A. THE SCOPE OF THIS CONTRACT INCLUDES BOXES AND RACEWAYS WITH PULL STRINGS ONLY, IT DOES NOT INCLUDE CABLES, CABLE TERMINATIONS, EQUIPMENT, ETC.

ABBRI	EVIATIONS			Superlation
A	AMPS	MNT	MOUNTING HEIGHT	8129 SW 75TH STREET GAINESVILLE, FLORIDA 32608
AC	ABOVE COUNTER	MTG		352-256-6785
NCS NF	ACCESS CONTROL SYSTEM AMP FRAME	MTS MV	MANUAL TRANSFER SWITCH	www.superlative.design
۲ FF	AMP FRAME ABOVE FINISHED FLOOR	NAC	MEDIUM VOLTAGE NOTIFICATION APPLIANCE CIRCUIT	
FG	ABOVE FINISHED GRADE	N1	NEMA 1	
HŬ	AIR HANDLING UNIT	N3R	NEMA 3R	
L	ALUMINUM	N/A, NA	NOT APPLICABLE	
RCH	ARCHITECT OR ARCHITECTURAL	NEC	NATIONAL ELECTRICAL CODE	
T		NESC	NATIONAL ELECTRICAL SAFETY CODE	
TS TU	AUTOMATIC TRANSFER SWITCH AIR TERMINAL UNIT	N, NEU NFPA	NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION	
WG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE	
AS	BUILDING AUTOMATION SYSTEM	OC	ON CENTER	
J	BONDING JUMPER	OCPD	OVERCURRENT PROTECTION DEVICE	
٢R	CIRCUIT BREAKER	OFOI	OWNER FURNISHED OWNER INSTALLED	
LDG	BUILDING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	
DD	BASIS OF DESIGN	OH		
′B, CB	CONDUIT CIRCUIT BREAKER	OHE OHP		
в, Св -	CURRENT LIMITING	OHP	OVERHEAD PRIMARY OVERHEAD SECONDARY	
_ /L	CENTERLINE	P	POLE OR PHASE	
.G	CEILING	PBD	PANELBOARD	anninn.
(T	CIRCUIT	PEM	POWER ENERGY MONITOR	RAYMONO"
-	CURRENT TRANSFORMER	PF	POWER FACTOR	K. UCENSE TE
J		PNL	PANELBOARD	No 59242
DC EMO	DIRECT DIGITAL CONTROL DEMOLISH	PQM PT	POWER QUALITY METER POTENTIAL TRANSFORMER	
IV	DIVISION	PWR	POWER	D STATE OF
C	ELECTRICAL CONTRACTOR	RCPT	RECEPTACLE	CORID.
GC	EQUIPMENT GROUNDING CONDUCTOR	REQD	REQUIRED	MOONAL Elim
LCU	EMERGENCY LIGHTING CONTROL UNIT	RM	ROOM	
EC	ELECTRICAL	RGS	RIGID GALVANIZED STEEL CONDUIT	NATHE NG NG N
/GB	ELECTRICAL MAIN GROUNDING BUSBAR	RNC	RIGID NON-METALLIC CONDUIT	OPF J AANSOC S S S S S S S S S S S S S S S S S S S
F X	EXHAUST FAN EXISTING TO REMAIN	RVSS SA	REDUCED VOLTAGE SOLID STATE SURGE ARRESTER	APP BUILLE APP ARD ARD S& 7 THC CE V L
^ XT	EXTERIOR	SCA	SHORT CIRCUIT AMPS	TTEE AUDUMUND AND AND AND AND AND AND AND AND AND A
WC	ELECTRIC WATER COOLER	SCCA	SHORT CIRCUIT CURRENT RATING	CCAL CALLICA SCHI CORE CCAL CCAL CORE CAL CORE CAL CORE CAL
MT	ELECTRICAL METALLIC TUBING	SF	SUPPLY FAN	AR ARC WITC WILLED WILLED DE DE LLO DE LLO CLLO SECC SECC SECC
QUIP	EQUIPMENT	SLC	SIGNALING LINE CIRCUIT	
ЛС	FLEXIBLE METAL CONDUIT	SPD	SURGE PROTECTIVE DEVICE	
ACP	FIRE ALARM SYSTEM CONTROL PANEL	SPEC	SPECIFICATION	
	FUSE FIRE ALARM	SS SWBD	SAFETY SWITCH	
4, F/A _A	FIRE ALARM FULL LOAD AMPS	SWBD SWGR	SWITCHBOARD SWITCHGEAR	EORD CO.
R	FLOOR	TBB	TELECOMMUNICATIONS BONDING BACKBONE	BETTER IN BRADE
SS	FUSED SAFETY SWITCH	TCC	TIME CURRENT CURVE	HONOR TO A
/NR	FULL VOLTAGE NON-REVERSING	TR	TELECOMMUNICATIONS ROOM	
FI	GROUND FAULT INTERRUPTER	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	
0	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	DEDICATION
	GENERAL CONTRACTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	TO GOD WE TRUST
ND EC	GROUND GROUNDING ELECTRODE CONDUCTOR	TX TYP	TRANSFORMER TYPICAL	CARE RESCUE
TD	GENERATOR TRANSFER DEVICE	UFR	UNDERFLOOR RACEWAY	
4	HANDHOLE	UG	UNDERGROUND	
OA	HAND-OFF-AUTOMATIC	UGE	UNDERGROUND ELECTRIC	
2	HEAT PUMP OR HORSEPOWER	UGP	UNDERGROUND PRIMARY	U U
/AC	HEATING, VENTILATION & AIR-CONDITIONING	UGS	UNDERGROUND SECONDARY	
; 1C	ISOLATED GROUND	UL		
IC 8, JBOX	INTERMEDIATE METAL CONDUIT JUNCTION BOX	UNO UPS	UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY	
S, JBUX	KILO	UPS V	VOLT	
AIC	KILO-AMPERE INTERRUPTING CAPABILITY	VA	VOLT-AMPERES	Ш
CMIL	THOUSAND CIRCULAR MILS	VAR	VOLT-AMPERES REACTIVE	Ш
CP	LIGHTING CONTROL PANEL	VAV	VARIABLE AIR VOLUME UNIT	1
G		VFD	VARIABLE FREQUENCY DRIVE	TY SLF ROAD 227
MC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	W	WATTS OR WIRE	S C
ν ΑX	LOW VOLTAGE MAXIMUM	WAO WP	WORK AREA OUTLET WEATHERPROOF	
AX C	MAXIMUM MECHANICAL CONTRCATOR	WP	WITHSTAND RATING	ר א ו
CA	MINIMUM CIRCUIT AMPACITY	XD	EXISTING TO BE DEMOLISHED	м Ц Ц
	MOTOR CONTROL CENTER	XFMR	TRANSFORMER	
CE	MAIN COMMUNICATIONS EQUIPMENT ROOM	XP	EXPLOSION PROOF	
СМ	THOUSAND CIRCULAR MILS	XR	EXISTING TO BE RELOCATED	
H	MANHOLE	Ф 70°	PHASE	
IIN IISC	MINIMUM MISCELLANEOUS	72° ∧	DEGREES DELTA	
110	MISCELLANEOUS MAIN LUGS ONLY	Δ Ο	OHMS	

CODES & STANDARDS

MAIN LUGS ONLY

GENERAL

MLO

. ALL WORK UNDER DIVISION 26 SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CODES AND STANDARDS LISTED HEREIN. THE DESIGN HAS BEEN BASED ON THE REQUIREMENTS OF THESE CODES AND STANDARDS. WHILE IT IS NOT THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ALL WORK CALLED FOR COMPLIES WITH THESE CODES AND STANDARDS, HE SHALL BE RESPONSIBLE FOR CALLING TO THE ENGINEER'S ATTENTION ANY DETAILS ON THE DRAWINGS AND/OR SPECIFICATIONS THAT ARE NOT IN CONFORMANCE WITH THESE OR OTHER CODES AND STANDARDS. CURRENT ISSUE OF CODE APPLIES UNLESS SPECIFICALLY NOTED OTHERWISE.

Ω

OHMS

- COMPLY WITH REGULATIONS AND CODES OF SUPPLIERS OF UTILITIES. WHERE NO SPECIFIC METHOD OR FORM OF CONSTRUCTION IS CALLED FOR IN THE CONTRACT
- DOCUMENTS, THE CONTRACTOR SHALL COMPLY WITH CODE REQUIREMENTS WHEN CARRYING OUT SUCH WHERE CODE CONFLICT EXISTS, GENERALLY THE MOST STRINGENT REQUIREMENT APPLIES.
- CODES OR STANDARDS APPLYING TO A SPECIFIC PART OF THE WORK MAY BE INCLUDED IN THAT
- SECTION ALL ELECTRICAL MATERIALS, INSTALLATION AND SYSTEMS SHALL MEET THE REQUIREMENTS OF THE LISTED STANDARDS, INCLUDING THE LATEST ADDENDA AND AMENDMENTS.

- 1. FLORIDA BUILDING CODE (FBC) A. BUILDING - 2023 8TH EDITION
- B. TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES 2023 8TH EDITION
- 2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- A. NATIONAL ELECTRIC CODE (NFPA 70) 2020 B. NATIONAL FIRE ALARM CODE (NFPA 72) - 2019
- FLORIDA FIRE PREVENTION CODE 2023 8TH EDITION
- A. FIRE CODE (NFPA 1) 2021 FLORIDA EDITION B. LIFE SAFETY CODE (NFPA 101) - 2021 FLORIDA EDITION

STANDARDS

- AMERICAN NATIONAL STANDARD INSTITUTES (ANSI)
- ILLUMINATING ENGINEERING SOCIETY (IES) INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATIONS (NEMA)
- NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION (NECA) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- A. NFPA 780, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) UNDERWRITER'S LABORATORIES, INC. (UL)



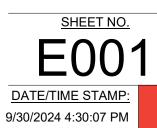


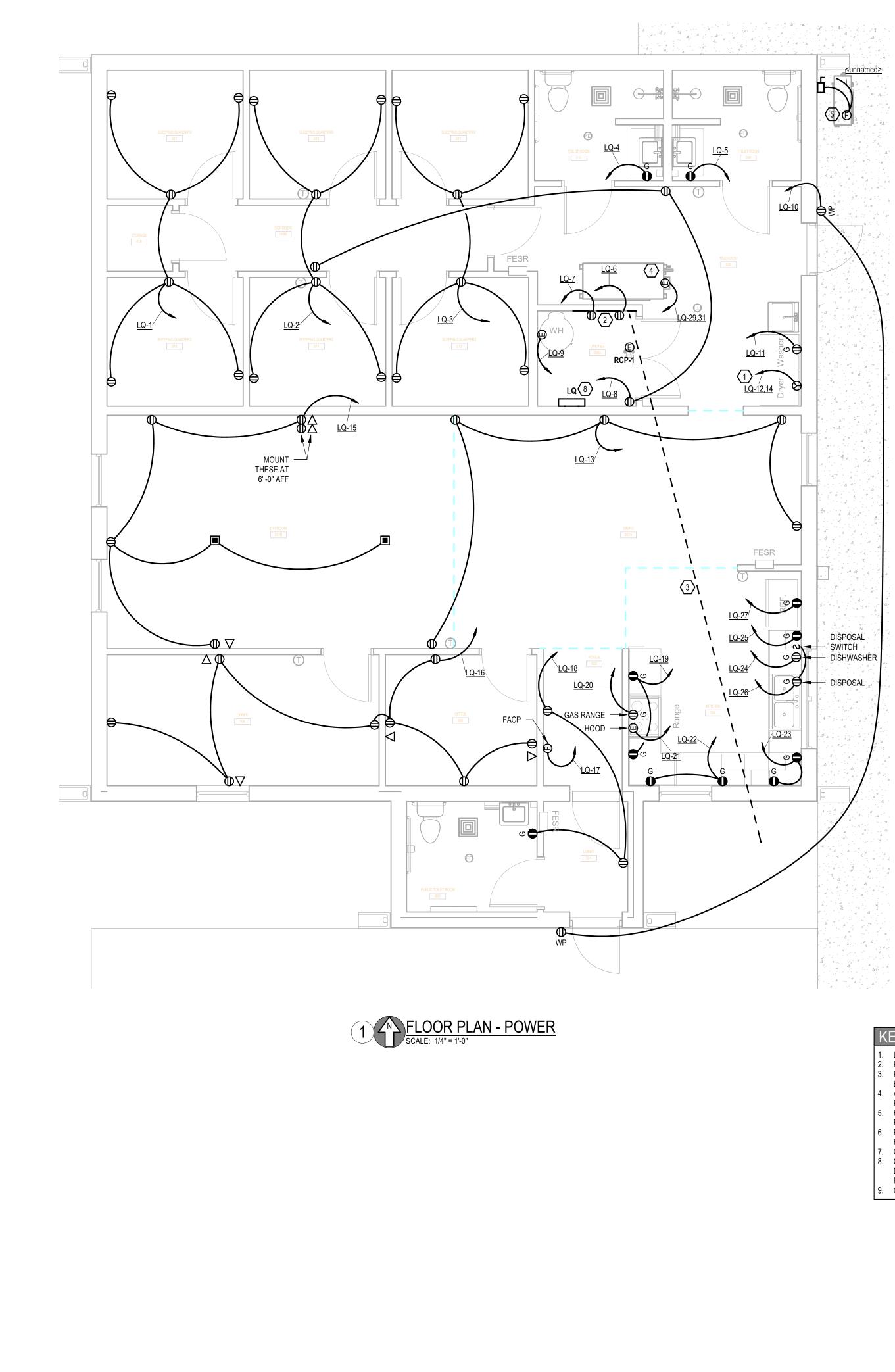
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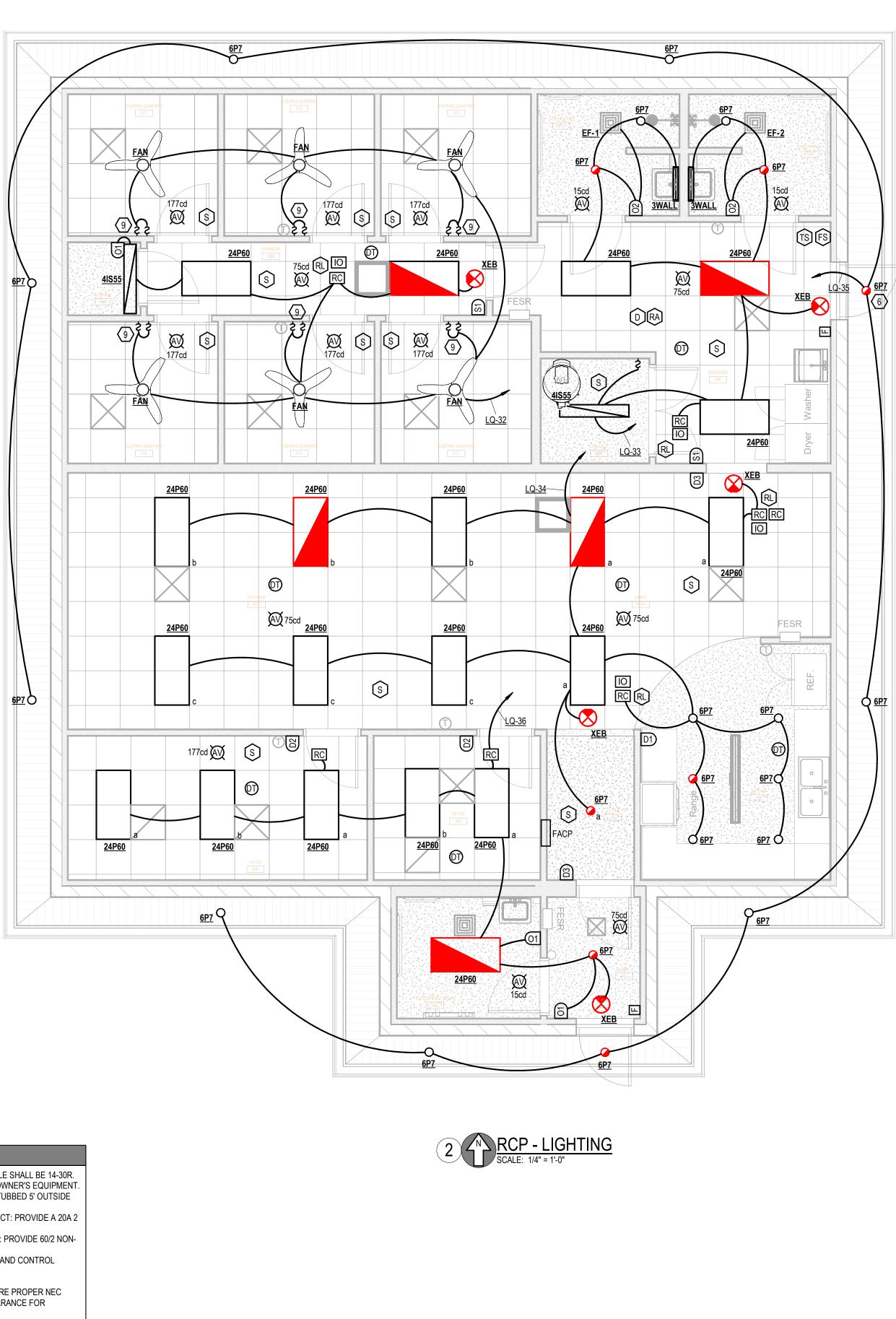
DRAWING STATUS **100% CONSTRUCTION** DOCUMENTS ISSUE DATE: 00/27/2024

09/27/2024						
DRAWN BY:	CHECKED BY:					
AKIN	AKIN					
PROJECT NUMBER:						

DRAWING TITLE: LEGEND, ABBREVIATIONS, CODES AND STANDARDS

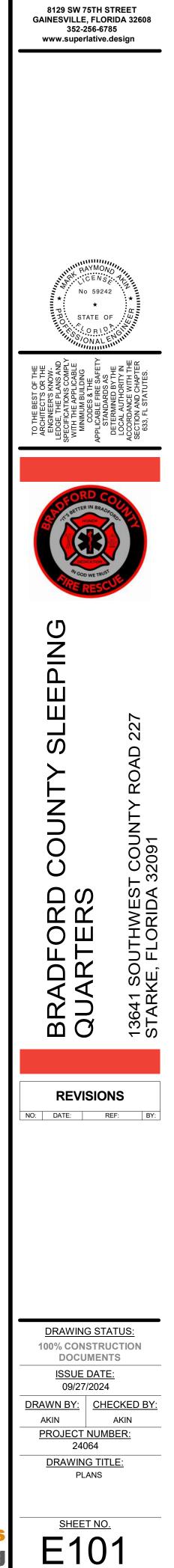






KEY NOTES

- DRYER CIRCUIT SHALL BE 3#8,#8G,3/4"C, RECEPTACLE SHALL BE 14-30R.
 PROVIDE 48"X48"X3/4" PLYWOOD BACKBOARD FOR OWNER'S EQUIPMENT.
- PROVIDE (2)2"C AND (2)1"C FROM BACKBOARD TO STUBBED 5' OUTSIDE BUILDING FOOTPRINT.
- AHU CIRCUIT SHALL BE 3#12,#12G,1/2"C, DISCONNNECT: PROVIDE A 20A 2 POLE TOGGLE SWITCH.
- HP CIRCUIT SHALL BE 3#10,#10G,3/4"C, DISCONNECT: PROVIDE 60/2 NON-FUSED NEMA 3R HEAVY DUTY SAFETY SWITCH.
- FUSED NEMA 3R HEAVY DUTY SAFETY SWITCH.
 6. PROVIDE A PHOTOCELL MOUNTED ON NORTH FACE AND CONTROL
 EXTERIOR LIGHTS THROUGH PHOTOCELL
- EXTERIOR LIGHTS THROUGH PHOTOCELL. CONNECT EF TO LIGHT SWITCH.
- 8. COORDINATE WITH PLUMBING AND HVAC AND ENSURE PROPER NEC DEDICATED EQUIPMENT SPACE AND WORKING CLEARANCE FOR PANELBOARD.
- 9. CONNECT ONE SWITCH TO FAN AND ONE SWITCH TO LIGHT KIT.

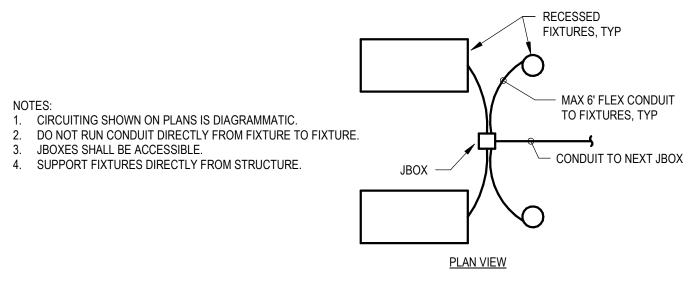


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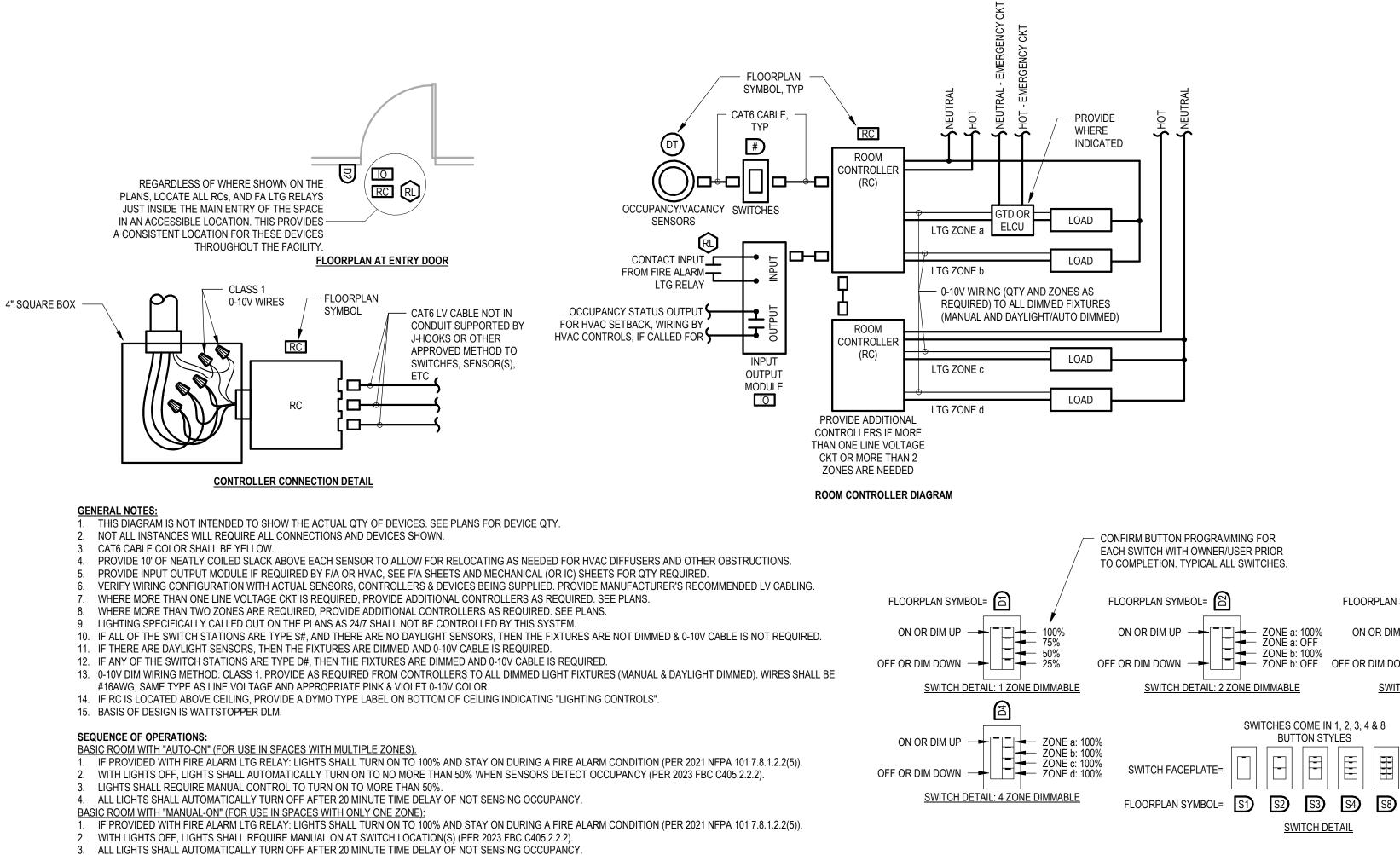


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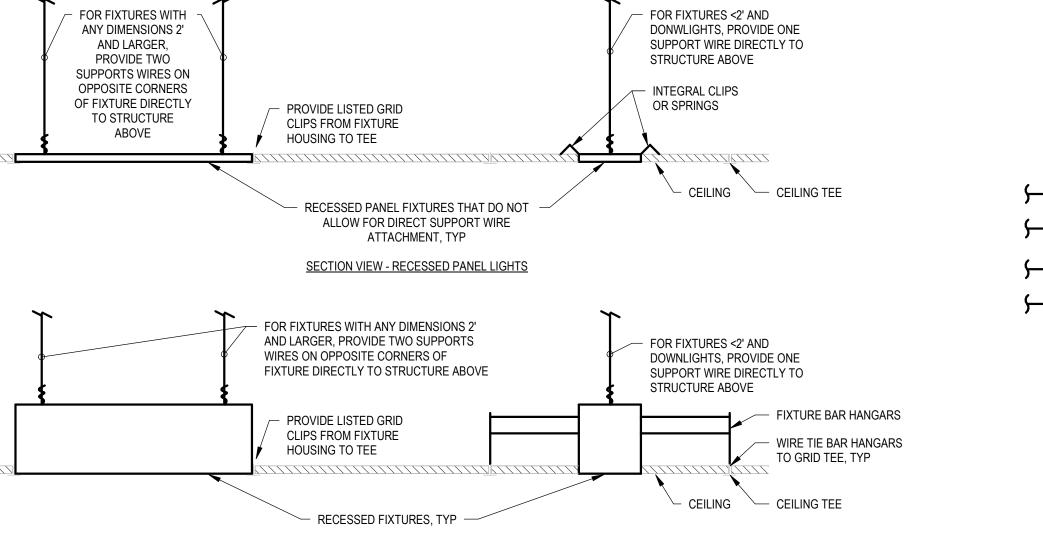
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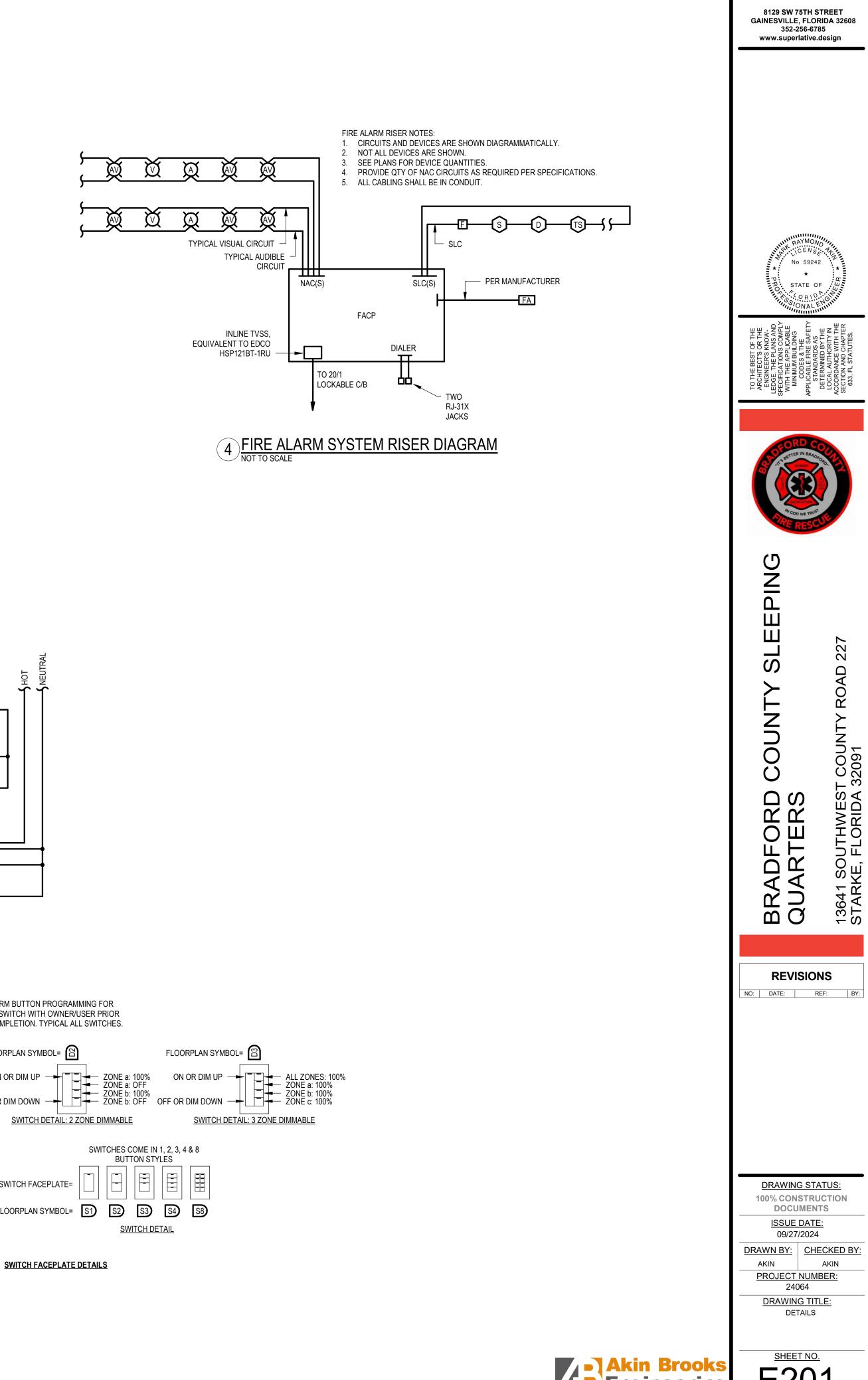






- HALLWAYS, LOBBIES, ETC WITH NO LOCAL SWITCHES:
- WITH LIGHTS OFF, LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% WHEN SENSORS DETECT OCCUPANCY.





RECESSED LIGHT FIXTURE INSTALLATION DIAGRAM

NOT TO SCALE

SECTION VIEW - RECESSED LIGHTS

IF PROVIDED WITH FIRE ALARM LTG RELAY: LIGHTS SHALL TURN ON TO 100% AND STAY ON DURING A FIRE ALARM CONDITION (PER 2021 NFPA 101 7.8.1.2.2(5)). 3. ALL LIGHTS SHALL AUTOMATICALLY TURN OFF AFTER 20 MINUTE TIME DELAY OF NOT SENSING OCCUPANCY.

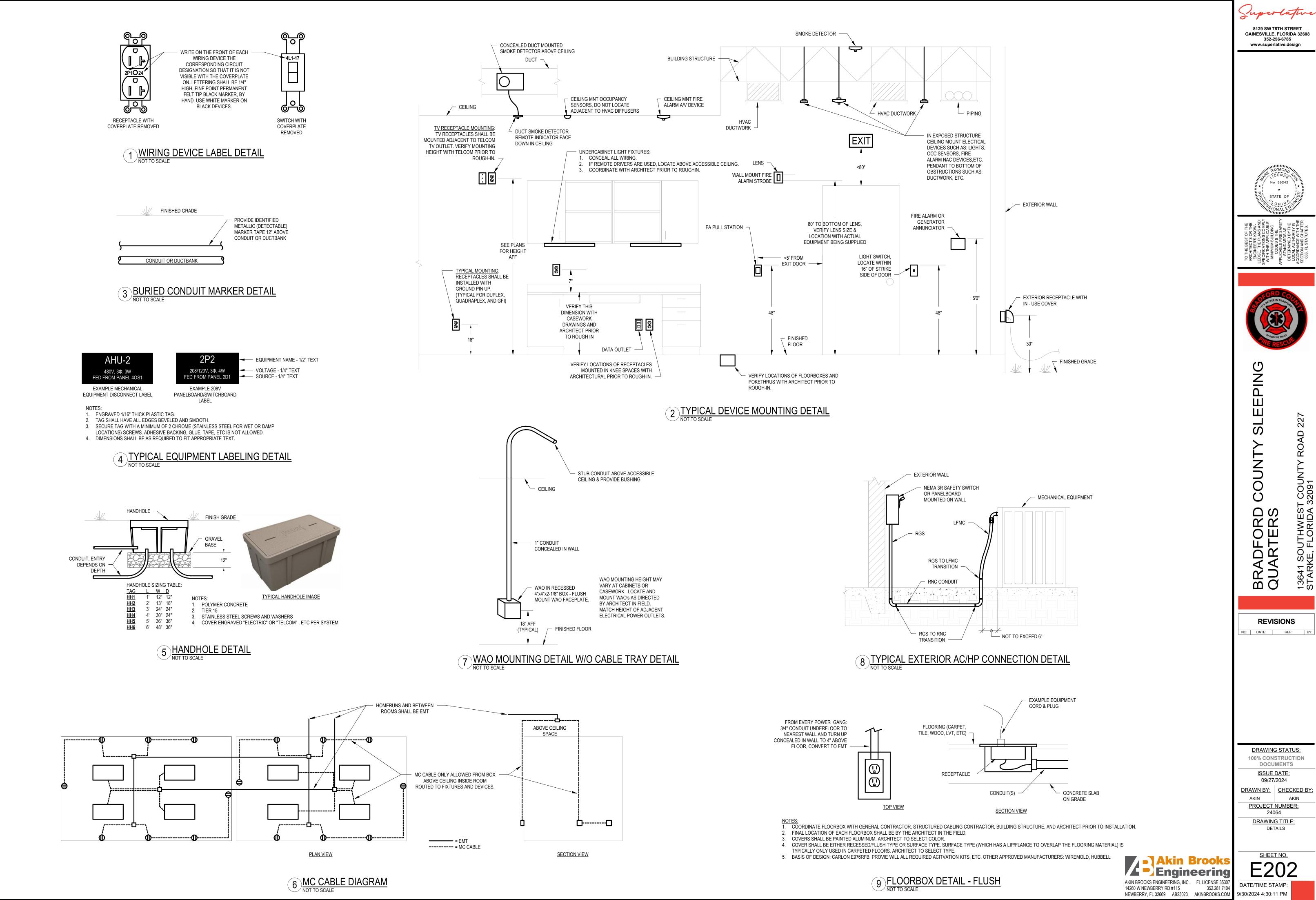
3 ROOM CONTROLLER DIAGRAM



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BRUNO

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Job/Location: Contractor: Prepared By:

Job Type: Date:

The BRUNO is a truly all-in-one exit solution that is ideal for distributor

shelves and last minute jobs. Every BRUNO includes the required

components for surface (wall, ceiling & end) and recess (wall & ceiling)

mount configurations. Single and double face panels are provided, as

The **BRUNO** is designed with a maintenance free, nickel-cadmium

battery providing a minimum emergency duration of 90 minutes. An

optional 120 minute nickel-cadmium battery is available. Recharge

time of the battery is less than twenty-four [24] hours. The battery

The **BRUNO** can be configured on site for surface wall, ceiling or end mount

as well as recessed wall or ceiling mount. Adjustable steel T-bar mounting

brackets are supplied standard for recessed ceiling installation. Faceplates

for the BRUNO are constructed of clear, solid acrylic. The BRUNO is

operating temperature is from 50°F up to 104°F (10°C to 40°C).

well as field installable inserts in white. Chevrons are field installable.

universal design

specifications: battery

suitable for indoor and damp installations.

installation

specifications: internal

AC ONLY, AC/DC and SELF-POWERED comes standard configured with high-output LED technology, 120/277VAC input. Nickel-cadmium batteries provide a minimum 90 minutes of emergency duration. Optional 120 minute duration battery is available. Solid state charger & transfer. Standard with 120/277VAC input and consume only 2W nominal power. CSA 22.2 No. 141 Performance Certified. BRUNO signs configured for AC/ DC operation feature a universal 2 wire DC input; 6VDC - 24VDC. Fuse protection is standard.

specifications: external

The **BRUNO** series housing is constructed from durable die-cast aluminum. The acrylic faceplate is universal and can be configured for both single face or double face and includes field installable inserts that allow for white panel backgrounds. The BRUNO allows the installer to choose between surface or recessed, wall, ceiling or end mounting. The housing comes standard in a white, baked powder coat finish. Available in custom powder coat finishes or alternate metal finishes (please specify). External LED monitor light and test switch are standard on self-powered versions.

ordering logic Series Operation LED Face No./Panel Color Mounting Options BRU HT (AC only) LR (red) U¹ (universal faces) M² (universal mounts) AT (autotest - for SA model only) LG (green) B (black finish) SA (self-powered) BA (brushed aluminum finish) CC (custom color) FL³ (visual alarm) IF (inverted face) PA (polished aluminum finish) PK12 (12" pendant kit) UDC (universal 6 - 24VDC) 120SP (120 min. emergency) 120VDC⁴ (specify 2 or 4 wires) SW (special wording - specify) NOTE 1: Single and double face panels included in the product box. Mirror installable inserts included in the product box. NOTE 2: Surface (wall, ceiling & end) and Recess (wall & ceiling) mounting kits included in the product box. NOTE 3: Visual alarm only with AT option. NOTE 4: With 120VAC only. EXAMPLE: BRU-SA-LB-U-M-UM DESCRIPTION: self powered, red LED, universal faces, universal panels, universal mounts. Beghelli www.beghelliusa.com 8/12/21

SPECIFICATION SHEET LED DOWNLIGHTS - ROUND TILT / LIGHTING TECHNOLOGY PROJECT 10 YEAR PART# TYPE WARRANT PRODUCT FEATURES • Plug & Play 24 Volt design for quick install and design flexibility Constant voltage design allows multiple lights per driver and greater energy efficiency • Dimmable (0-10V or PWM) • Polycarbonate diffuser will not shatter, sag or yellow 100% acrylic light guide panel for color stability Edge-lit design for ultra thin profile (1/2") • Wide 120° beam angle for better spacing Lights can be located up to 50' from driver • IP44 rating for damp or dry locations Contrantin and the IC rating permits contact with insulation Rated for over 50,000 hours LM-70 May be flush or surface mounted 6" Downlight Shown Install with TILT[®] Drivers and Wired Components PART NUMBER & PRODUCT GUIDE (LED DOWNLIGHTS-ROUND) Flush Mount Description Color Temp CRI R9 Lumens AC Watts DC Watts L/W-DC Part# LCLCV430W-HE 4"LED Round Downlight 3000k 250 84 LCLCV435W-HE 4"LED Round Downlight 3500K 280 >80 >5 4 93 4000K LCLCV440W-HE 4"LED Round Downlight >80 >5 325 4 108 3 3 LCLCV450W-HE 4"LED Round Downlight 5000K 350 4 >80 >5 116 LCLCV430W-CQ* 4"LED Round Downlight 3000K >90 >50 225 4 75 3500K >50 250 LCLCV435W-CQ* 4"LED Round Downlight >90 4 83 LCLCV440W-CQ* 4"LED Round Downlight 4000K >90 >50 265 4 88 LCLCV450W-CQ* 4"LED Round Downlight 5000K >90 >50 280 4 3 93 800 LCLCV630W-HE 6"LED Round Downlight 3000K >80 >5 9 LCLCV635W-HE 6"LED Round Downlight 3500K >80 >5 850 9 125 LCLCV640W-HE 6"LED Round Downlight 4000K >80 >5 900 9 127 LCLCV650W-HE 6"LED Round Downlight 5000K >80 >5 925 9 8 130 3000K >50 650 9 8 LCLCV630W-CQ* 6"LED Round Downlight >90 108 700 LCLCV635W-CQ* 3500K >90 >50 9 116 6"LED Round Downlight 8 >50 725 9 121 LCLCV640W-CQ* 4000K >90 8 6"LED Round Downlight LCLCV650W-CQ* 6"LED Round Downlight 5000K >90 >50 750 9 8 125 Lauren Illumination® and TILT® are registered trademarks of Lauren Illumination LLC 1101 Commercial Ave. SE | New Philadelphia, OH 44663 | P: 855.440.8458 | F: 330.440.6607 laurenillumination.com 2010-2019 LAUREN ILLUMINATION, LLC. ALL RIGHTS RESERVED. CREATED 12/19 SS-TILT LED Downlights-Round



Recessed

Selectable backlit panel (SBP)

Selectable lumens & CC1

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	Particul.	

Day-Brite/CFI Selectable backlit panel is a highly versatile luminaire designed to provide three lumen and three CCT packages per size. Available for use in recessed and surface mount applications, the SBP is a versatile luminaire that is ideal for general lighting applications such as open office, schools, healthcare, and retail.

Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:





Universal 120-347V

			Power /	Wattage		Lumens			Efficacy		
Catalog Code	Size	Voltage	3500К	4000K	5000К	3500К	4000K	5000K	3500K	4000K	5000K
1SBP3040L8CS-4-UN3-DIM		Universal 120-347	31	29	30	3483	3640	3464	114	125	114
	1×4'		34	33	34	3841	4047	3824	112	123	111
			37	36	39	4293	4443	4167	117	122	108
	2×2'	Universal 120-347	30	28	30	3260	3434	3296	110	121	111
2SBP3040L8CS-2-UN3-DIM			33	32	33	3597	3819	3641	108	119	109
			39	36	37	4247	4207	4006	110	117	107
2SBP3550L8CS-4-UN3-DIM			34	33	35	4138	4260	4149	121	128	119
	2×4'	Universal 120-347	38	37	39	4570	4718	4566	119	127	117
			51	47	50	5697	5847	5548	111	124	110

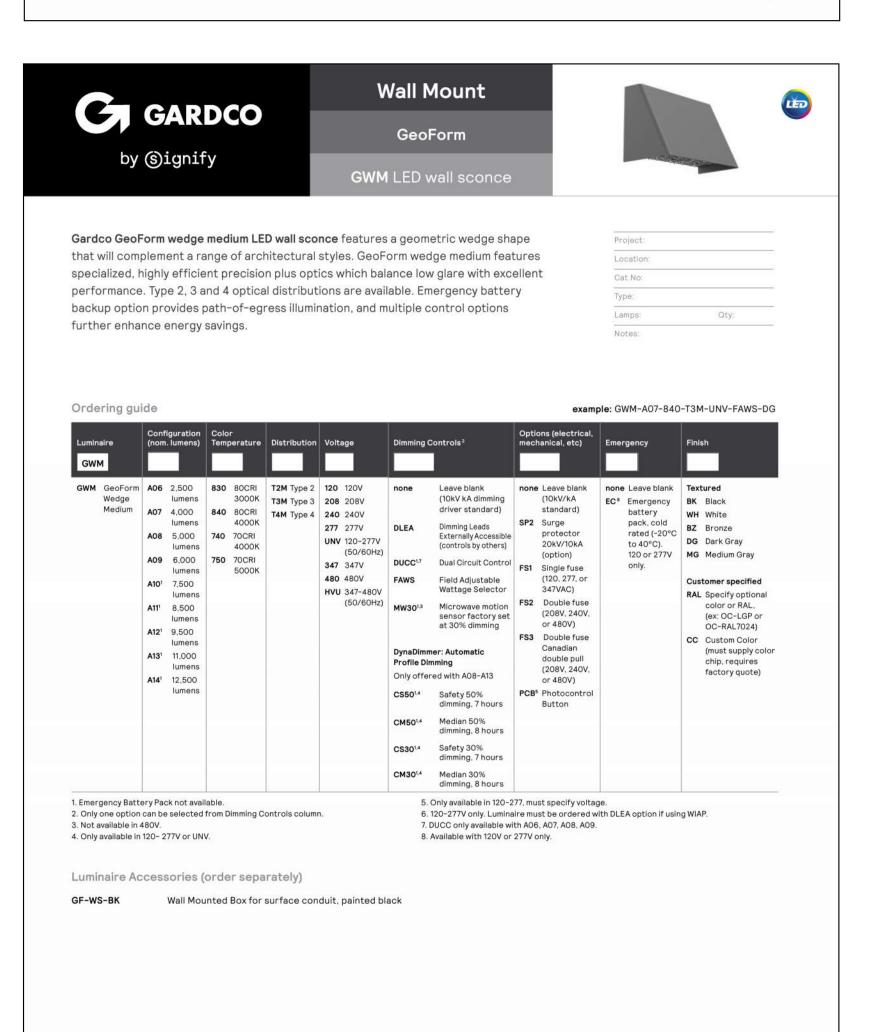
Accessories (order separately)

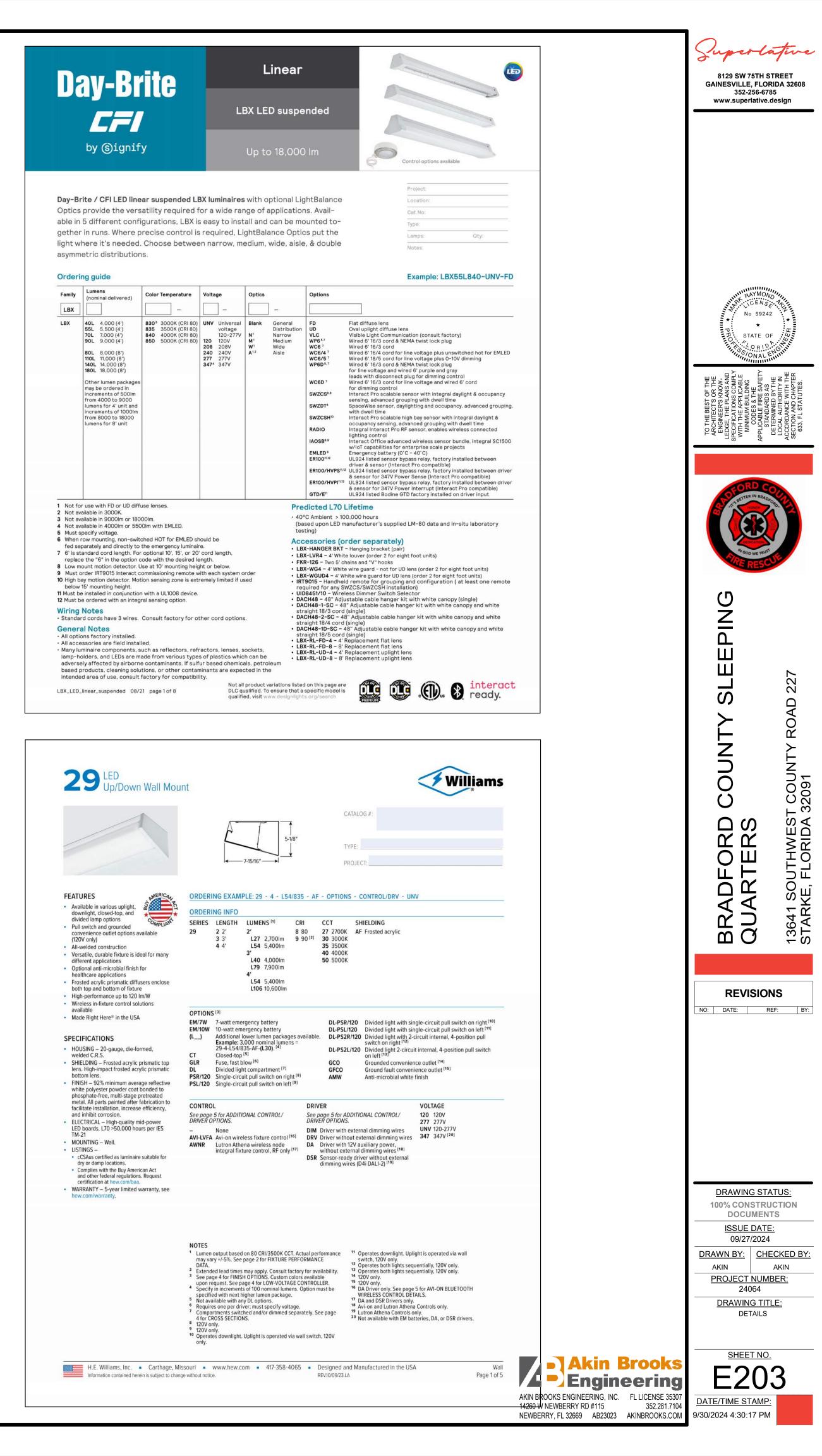
Selectable_backlit_panel_CA 03/21 page 1 of 5

GWM_GeoForm_Wedge_Medium 01/23 page1of5

- FMA14FP 1'x4' "F" mounting frame for NEMA "F" mounting • FMA22 - 2'x2' "F" mounting frame for NEMA "F" mounting FMA24 – 2'x4' "F" mounting frame for NEMA "F" mounting
- FSK22 2'x2' surface mount field installation kit(factory welded seams) • FSK24 - 2'x4' surface mount field installation kit (factory welded seams)
- CFFSF14 1'x4' surface mount field assembly kit (field assembled)
- CFFSF22 2'x2' surface mount field assembly kit (field assembled) CFFSF24 - 2'x4' surface mount field assembly kit (field assembled)

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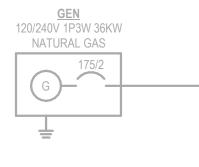


<u>TES</u>											
СКТ	DESCRIPTION	TRIP	Р	Α	В	А	В	Р	TRIP	DESCRIPTION	скт
LQ-1	Receptacle Space 5	20 A	1	1.08 kVA		1.08 kVA		1	20 A	Receptacle Space 12	LQ-2
LQ-3	Receptacle Space 9	20 A	1		1.08 kVA		0.18 kVA	1	20 A	Receptacle Space 7	LQ-4
LQ-5	Receptacle Space 6	20 A	1	0.18 kVA		0.18 kVA		1	20 A	Receptacle Space 3	LQ-6
LQ-7	Receptacle Space 3	20 A	1		0.18 kVA		0.54 kVA	1	20 A	Receptacle Space 3	LQ-8
LQ-9	WATER HEATER	20 A	1	0.00 kVA		0.36 kVA		1	20 A	Receptacle	LQ-10
LQ-11	Receptacle Space 20	20 A	1		0.18 kVA		2.85 kVA	2	30 A	DRYER	LQ-12
LQ-13	Receptacle Space 19	20 A	1	0.90 kVA		2.85 kVA					LQ-14
LQ-15	Receptacle Space 18	20 A	1		1.26 kVA		1.44 kVA	1	20 A	Receptacle Space 15	LQ-16
LQ-17	Receptacle Space 17	20 A	1	0.00 kVA		0.54 kVA		1	20 A	Receptacle Space 17	LQ-18
LQ-19	Receptacle Space 16	20 A	1		0.36 kVA		0.18 kVA	1	20 A	Receptacle Space 16	LQ-20
LQ-21	Receptacle Space 16	20 A	1	0.18 kVA		0.36 kVA		1	20 A	Receptacle Space 16	LQ-22
LQ-23	Receptacle Space 16	20 A	1		0.36 kVA		0.18 kVA	1	20 A	Receptacle Space 16	LQ-24
LQ-25	Receptacle Space 16	20 A	1	0.18 kVA		0.18 kVA		1	20 A	Receptacle Space 16	LQ-26
LQ-27	Receptacle Space 16	20 A	1		0.18 kVA						LQ-28
LQ-29	AHU	15 A	2	0.40 kVA							LQ-30
LQ-31					0.40 kVA		0.00 kVA	1	20 A	Lighting	LQ-32
LQ-33	Lighting	20 A	1	0.21 kVA		0.35 kVA		1	20 A	Lighting	LQ-34
LQ-35	Exterior Lighting	20 A	1		0.08 kVA		0.21 kVA	1	20 A	Lighting	LQ-36
LQ-37	Spare	20 A	1	0.00 kVA				1		Space	LQ-38
LQ-39	Spare	20 A	1		0.00 kVA			1		Space	LQ-40
LQ-41	Spare	20 A	1	0.00 kVA				1		Space	LQ-42
LQ-43	Spare	20 A	1		0.00 kVA			1		Space	LQ-44
LQ-45	Spare	20 A	1	0.00 kVA				1		Space	LQ-46
LQ-47	Spare	20 A	1		0.00 kVA			1		Space	LQ-48
LQ-49	Spare	20 A	1	0.00 kVA				1		Space	LQ-50
LQ-51	Spare	20 A	1		0.00 kVA			1		Space	LQ-52
LQ-53	Spare	20 A	1	0.00 kVA				1		Space	LQ-54
	١	TOTAL CONNECTE	D LOAD	9.01 kVA	9.64 kVA					·	I
		τοτ	AL AMPS	75.0 A	80.3 A						

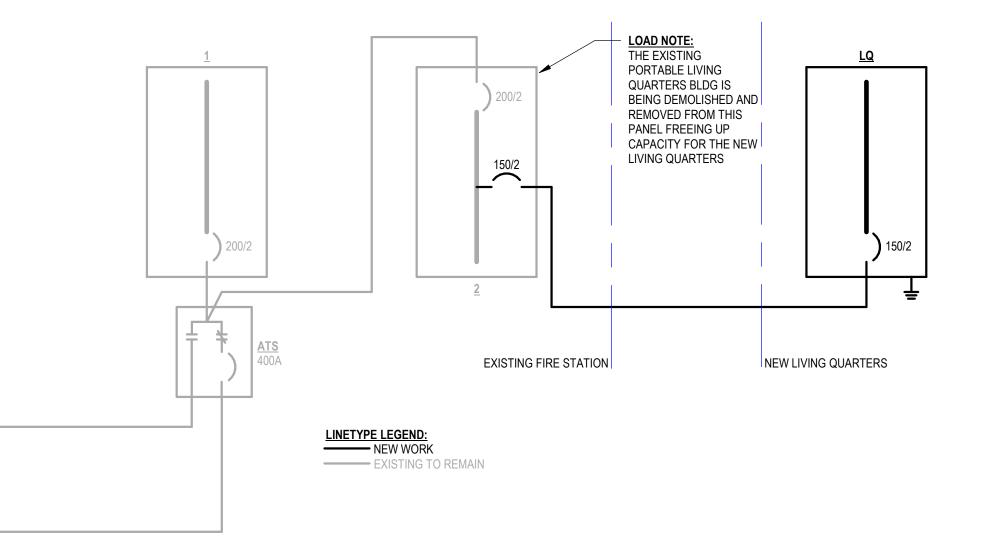
BRANCH PANEL: LQ BASIS OF DESIGN: NQ SUPPLY FROM: EXISTING PANEL MOUNTING: SURFACE ENCLOSURE NEMA TYPE: 1 VOLTS: 240/120 PHASES: 1 **WIRES**: 3 **KAIC:** 22

BUSS RATING: 150A MCB OR MLO: MCB MCB OR MLO SIZE: 150A NEUTRAL RATING: 100% PQM: NO SPD: NO # OF SECTIONS: 1 SERVICE RATED: NO

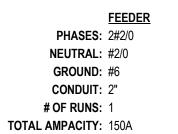
PHASES: 2#2/0 NEUTRAL: #2/0 GROUND: #6 CONDUIT: 2" # OF RUNS: 1



TO UTILITY POLE _____



SINGLE LINE DIAGRAM



LIGHT FIXTURE SCHEDULE																
	IXTORE 0		OF DESIGN	r i				TECHNICAL D	ΑΤΑ			OTY OF SPA	RE FIXTURES	AND PARTS		
TAG	DESCRIPTION	MANUFACTURER	CATALOG #	OR EQUAL BY	COLOR TEMP	LUMENS	INPUT WATTS	DIMMABLE	VOLTAGE	COLOR	MOUNTING	COMPLETE FIXTURES	DRIVERS	LIGHT	WARRANTY IN YEARS	NOTES
<u>XEB</u>	EDGE-LIT EXIT SIGN W/BATTERY PACK	BEGHELLI	BRU-SA-LG-U-M-AT	PATHWAY EMERGILITE PRESCOLITE	4000K	-	2W	NO	UNIV	MIRROR W/GREEN TEXT	WALL OR CEILING AS INDICATED	1	0	0	5	PROVIDE ARROW AND FACES AS PER PLANS, PROVIDE EMERGENCY NICAD BATTERY BACKUP, MIRROR PANEL BACKING, SELF-DIAGNOSTICS
<u>24P60</u>	2X4 PANEL	DAYBRITE	2FPZ-60L-840-4-DS-UNV-DIM	COLUMBIA COOPER TGS	4000K	~6000	58W	YES 0-10V	UNIV	WHITE	RECESSED	1	0	0	5	PROVIDE INTEGRAL DRIVER
<u>4IS55</u>	4' INDUSTRIAL	DAYBRITE	FSI-4-55L-840-UNV	COLUMBIA COOPER	4000K	~5500	41W	NO	UNIV	WHITE	SUSPENDED	0	0	0	5	
<u>6P7</u>	6" ROUND PANEL	LAUREN ILLUMINATION	LCLCV-6-40-W-HE	COLUMBIA COOPER TGS	4000K	~750	8W	YES 0-10V	UNIV	WHITE	RECESSED	0	0	0	5	PROVIDE WITH REMOTE DRIVER.
<u>3WALL</u>	3' WALL LIGHT	HEW	29-3-L40-80-40-AF	COLUMBIA COOPER	4000K	4000	30W	NO	UNIV	WHITE	WALL	0	0	0	5	
<u>FAN</u>	CEILING FAN WITH LIGHT KIT	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	CEILING	0	0	0	TBD	PROVIDE \$350 ALLOWANCE PER FAN
NOTES										2						
FIXTURES WIT	HALF FILLED IN CE	NTER OR SUBSCRIPT EM	SHALL BE PROVIDED WITH A	BATTERY PACK. F	PROVIDE UNSV	VITCHED NORM	MAL CKT TO B	ATTERY PACK.								
			0-10V DIMMABLE FIXTURES.		A 11											
			E CATALOG NUMBER, THE NO LISTED MUST BE SUBMITTED													
		ETE REPLACEMENT OF FA		TO THE ENGINEE		ION TO DID DA										
				TORAGE, QTY IND	ICATED ARE T	OTAL REQUIR	ED FOR THE F	IXTURE TYPE.								
SPARE FIXTURES AND PARTS SHALL BE IN SUITABLE BOXES LABELED AND READY FOR STORAGE. QTY INDICATED ARE TOTAL REQUIRED FOR THE FIXTURE TYPE.																

MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM PRIOR TO BID.

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