	LIGHTING	
	2'x2' LIGHT FIXTURE, CEILING MOUNTED.	f
	2'x4' LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LIGHT FIXTURE, WALL MOUNTED.	f
	LED STRIP LIGHT FIXTURE, SURFACE MOUNTED.	f
	CEILING MOUNTED FIXTURE WITH CEILING OUTLET BOX.	f
<u> </u>		
	DECORATIVE CEILING MOUNTED LED FIXTURE.	f
<u>오</u>	WALL MOUNTED LIGHT FIXTURE WITH WALL OUTLET BOX.	f
•	WALL WASH LIGHTING FIXTURE WITH CEILING OUTLET BOX.	f
44	EMERGENCY BATTERY UNIT EQUIPMENT LIGHT FIXTURE WITH WALL OUTLET BOX. TRIANGLES IDENTIFY NUMBER OF FIXTURE HEADS, U.O.N. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	
<u>\&</u>	EXIT SIGN LIGHT FIXTURE WITH CEILING OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	f
<u>\$</u>	EXIT SIGN LIGHT FIXTURE WITH WALL OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	f
о- П	POLE WITH MOUNTING ARM AND CUT-OFF LIGHT FIXTURE. BOXES INDICATE NUMBER OF FIXTURES AND ORIENTATION. "NL" INDICATES FIXTURE HEAD CONNECTED TO "NIGHT LIGHT" CIRCUIT (PHOTOCEL ON, PHOTOCELL OFF).	
\triangleleft	FACADE OR GRADE MOUNTED LANDSCAPE ACCENT LIGHT FIXTURE WITH WEATHERPROOF OUTLET BOX. TRIANGLE INDICATES NUMBER OF FIXTURES AND ORIENTATION.	
$\nabla \nabla \nabla \nabla$	CEILING OUTLET BOX, LIGHTING TRACK, AND FIXTURES. PROVIDE TRACK HEAD FIXTURE QUANTITY AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.	f
QQQ	INCANDESCENT BATH VANITY FIXTURE.	f
	CEILING OUTLET BOX AND PADDLE FAN. INSTALL FAN PER MANUFACTURERS' RECOMMENDATIONS.	e, f
\$ _a	SINGLE POLE SWITCH WITH FLUSH WALL OUTLET BOX. ("a" INDICATES SWITCH-LEG)	b, f
\$ ₂	DOUBLE POLE SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
\$ ₃	THREE-WAY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
\$ ₄	FOUR-WAY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
\$ _F	FAN CONTROL SWITCH, MINIMUM 3 SPEED SOLID STATE, WITH FLUSH WALL OUTLET BOX.	b, f
\$ _K	SINGLE POLE KEY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
* _{WP}	SINGLE POLE SWITCH WITH FLUSH WALL OUTLET BOX AND STAINLESS STEEL WEATHERPROOF COVER.	b, f
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SINGLE POLE SWITCH AND DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	b, f, g, h
Ф	DIMMER SWITCH AND WALL OUTLET BOX, AS NOTED ON PLANS.	b, f
PC	PHOTOCELL (MATCH COIL VOLTAGE AS REQUIRED)	
	TIME SWITCH, ASTRONOMIC WITH RESERVE BATTERY, 30A CONTACTS AND COIL	j
\$os	VOLTAGE AS REQUIRED FOR CIRCUITS, UNLESS OTHERWISE NOTED. SINGLE POLE OCCUPANCY SENSOR SWITCH WITH WALL OUTLET BOX (SENSOR SWITCH "WSX" SERIES).	b
\$ _{LV}	LOW VOLTAGE SWITCH WITH WALL OUTLET BOX WITH ON/OFF CAPABILITY. MANUFACTURED BY nLIGHT, nPODM SERIES OR EQUIVALENT.	f
ΦLV	LOW VOLTAGE DIMMER CONTROL WITH WALL OUTLET BOX, MANUFACTURED BY nLIGHT, nPODM-DX SERIES OR EQUIVALENT.	b, f
\$ _{VS}	SINGLE POLE VACANCY SENSOR SWITCH WITH WALL OUTLET BOX. DUAL TECHNOLOGY SENSOR WITH PASSIVE INFRARED/SOUND SENSOR TYPE, MANUFACTURED BY SENSOR SWITCH, 'WSX' SERIES OR EQUIVALENT.	b, f
ŌS a	CEILING/SURFACE MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER/RELAY PACKS FOR LIGHTING AND RECEPTACLE CONTROLS AND EMERGENCY POWER/RELAY PACK MANUFACTURED BY nLIGHT, nCM-PDT SERIES WITH nPP16/nPP20-PL/nPP16-ER POWER/RELAY PACKS OR EQUIVALENT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.	
VS a	CEILING/SURFACE MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH POWER/RELAY PACK AND LOW VOLTAGE ON/OFF (OR DIMMING IF REQUIRED) WALL SWITCH, MANUFACTURED BY nLIGHT, nCM-PDT SERIES WITH nPP16 SERIES POWER/RELAY PACK, nPP20 PL RECEPTACLE LOAD CONTROL POWER PACK (IF REQUIRED) AND nPODM/ nPODM-DX WALL SWITCH (OR EQUIVALENT). LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.	

CEILING MOUNTED LOW VOLTAGE DAYLIGHT HARVESTING PHOTOCELL, MANUFACTURED BY nLIGHT, nRM-PC SERIES OR EQUIVALENT.

Φ.	POWER	
φ	SINGLE RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a, •
Ф	DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a,
#	DOUBLE DUPLEX RECEPTACLE WITH TWO-GANG FLUSH WALL OUTLET BOX.	a,
Ψ	DUPLEX RECEPTACLE, TOP HALF SWITCHED WITH FLUSH WALL OUTLET BOX.	a,
•	DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH FLUSH WALL OUTLET BOX.	f
Фс	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX CONTROLLED/SWITCHED VIA LOCAL LIGHTING CONTROLS. PROVIDE IDENTIFICATION PER NEC 406.3 (E).	a, ·
φG	GFI DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a,
ФG	GFI DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH FLUSH WALL OUTLET BOX.	f
₩ _G	GFI DOUBLE DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH TWO-GANG FLUSH WALL OUTLET BOX.	f
⊕ _{USB}	DUPLEX RECEPTACLE AND TWO USB CHARGERS WITH FLUSH WALL OUTLET BOX.	a,
₽wpg	WEATHERPROOF GFI DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX AND COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	a,
₩PG	WEATHERPROOF GFI DUPLEX RECEPTACLE AND DIE-CAST ALUMINUM, SURFACE MTD. OUTLET BOX WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	a, f, g
■	DUPLEX RECEPTACLE FED FROM GFI BREAKER WITH WALL OUTLET BOX FOR ELECTRIC WATER COOLER. COORDINATE CONCEALMENT WITH EWC INSTALLER FOR MOUNTING REQUIREMENTS.	f
Φ	DUPLEX RECEPTACLE WITH FLUSH CEILING OUTLET BOX.	f
⊕ ⊕g	GFI DUPLEX RECEPTACLE WITH FLUSH CEILING OUTLET BOX.	f
⊕ G	SPECIAL PURPOSE RECEPTACLE, AS NOTED ON PLANS, WITH FLUSH WALL OUTLET	' a, [,]
	BOX. FLUSH WALL OUTLET BOX AND 30A, 125/250V, 3P, 4W, NEMA 14-30R RECEPTACLE.	
(A) 50		a, '
▲ 50	FLUSH WALL OUTLET BOX AND 50A, 125/250V, 3P, 4W, NEMA 14-50R RECEPTACLE. FLUSH FLOOR OUTLET BOX AND (1) 20 AMP DUPLEX RECEPTACLE WITH CARPET OR	a, '
	TILE FLANGE. SURFACE MOUNTED JUNCTION BOX AND BLANK PLATE, WALL MTD. OR MTD. TO	f, h
J	CEILING/STRUCTURE AS INDICATED. SURFACE MOUNTED WEATHERPROOF JUNCTION BOX AND BLANK PLATE, WALL MTD.	f, h
J WP	OR MTD. TO CEILING/STRUCTURE AS INDICATED.	f, h
<u> </u>	JUNCTION BOX AND BLANK PLATE, ABOVE CEILING.	f
Φ-	FLUSH CEILING JUNCTION BOX AND BLANK PLATE.	f
<u> </u>	FLUSH WALL JUNCTION BOX AND BLANK PLATE.	f
	DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX AND BLANK PLATE, AS NOTED ON PLANS.	f, g,
₩P	DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX AND WEATHERPROOF BLANK PLATE, AS NOTED ON PLANS.	f, g,
<i>\O</i> '	MOTOR, AS NOTED.	j
	DISCONNECT SWITCH. REFER TO EQUIPMENT FEEDER SCHEDULE FOR REQUIREMENTS (I.E. SIZE, FUSED, NON-FUSED, ETC.)	h,
×	MAGNETIC MOTOR STARTER OR CONTACTOR, AS NOTED.	h,
C	CONTROL AND/OR POWER EQUIPMENT CONNECTION.	j
R	RELAY. COIL VOLTAGE = 24VAC OR 120VAC, TYPE AS INDICATED ON DRAWINGS. (NO) = NORMALLY OPEN. (NC) = NORMALLY CLOSED	
<u> </u>	120/240V BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED	j
	120/240V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED	h,
Φ	TRANSFORMER, PAD MOUNTED	j
SPD	SURGE PROTECTIVE DEVICE	
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. MINIMUM TWO CONDUCTORS PLUS GROUND. REFER TO SPECIFICATIONS AND EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR REQUIREMENTS. ARROWS INDICATE CIRCUIT CONNECTIONS AND HOMERUNS TO PANEL AS INDICATED ON PLANS. TYPICAL FOR ALL RACEWAY TYPES, U.O.N.	
/-	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND	
	BRANCH CIRCUIT CONDUIT EXPOSED	
LV	LOW VOLTAGE CONTROL WIRING, CONCEALED	
	CONDUIT CONTINUED	
	CONDUIT CAPPED OFF	
	CONDUIT RUN UP	
	CONDUIT RUN DOWN	
	GROUND OR GROUND ROD AS NOTED	
+ ②	WALL MOUNTED PHOTOELECTRIC NON-SYSTEM SMOKE DETECTOR, 120 VAC POWERED	0
~	WITH BATTERY BACK-UP AND INTERLOCK CAPABILITIES (RESIDENTIAL UNITS). WALL MOUNTED PHOTOELECTRIC NON-SYSTEM SMOKE/CARBON MONOXIDE DETECTOR	

	BI-DIRECTIONAL AMPLIFIER SYSTEM	
BDA	BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA) WITH UL2524 IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS LISTING. MANUFACTURED BY GAMEWELL-FCI PART # GW-BDA800-1B.	
BATT	BDA BATTERIES AND BATTERY ENCLOSURES. MANUFACTURED BY GAMEWELL-FCI PART #BDA-BENCL-10-UL3R, BDA-BB-75-10, BDA-SBR-10-UL3R.	
	BDA DONOR ANTENNA. MANUFACTURED BY GAMEWELL-FCI PART #BDA-DA-800-1	
Υ	BDA DAS ANTENNA. MANUFACTURED BY GAMEWELL-FCI PART #BDA-FA-800-1	
	POWER DIVIDER. MANUFACTURED BY GAMEWELL-FCI PART #BDA-PD2-4588-1, BDA-PD3-4588-1, BDA-PD4-4588-1.	
	DIRECTIONAL COUPLER. MANUFACTURED BY GAMEWELL-FCI PART #BDA-DC6-3588-1, BDA-DC10-3588-1, BDA-DC15-3588-1, BDA-DC20-3588-1,	

TTC	TELECOMMUNICATIONS TERMINAL CABINET (36"W X 36"H X 8"D UNLESS OTHERWISE NOTED)	n
	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	b
▼	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	а
▼ W	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	b
▼	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	а
•	COMBINATION TELEPHONE/DATA WALL OUTLET AND (2) CAT 6 CABLES BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	а
⊕ ▼	COMBINATION FLUSH FLOOR OUTLET BOX WITH (1) 20 AMP DUPLEX RECEPTACLE, TEL/DATA OUTLET AND CARPET OR TILE FLANGE. PROVIDE (2) CAT 6 CABLES BACK TO TTC VIA 3/4"C. STUBBED INTO CEILING SPACE.	
$\sqrt{}$	TELEVISION WALL OUTLET AND (1) RG6 COAX CABLE BACK AND (1) CAT 6 CABLE TO TVTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	а
	TELEPHONE SYSTEM RACEWAY, 3/4" MINIMUM CONCEALED, TO LOCAL TTC (UNLESS OTHERWISE NOTED).	
TV ▽	COMBINATION TELEVISION/DATA WALL OUTLET WITH (1) RG6 COAXIAL CABLE AND (1) CAT 6 CABLE BACK TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	а
TV	TELEVISION RACEWAY, CONCEALED, TO LOCAL TVTC UNLESS NOTED OTHERWISE.	
TVTC	TELEVISION TERMINAL CABINET. (36"W X 36"H X 8"D UNLESS OTHERWISE NOTED)	n
SMC	SYSTEMS STRUCTURED MEDIA CENTER J-BOX.	n
O B	DOOR BELL/CHIME WITH LOW VOLTAGE TRANSFORMER.	
•	DOOR BELL OR GARAGE DOOR OPENER PUSH BUTTON.	b

F	MANUAL FIRE ALARM PULL STATION.	b
F _{WP}	MANUAL FIRE ALARM PULL STATION, CAST SURFACE OUTLET BOX AND WEATHERPROOF ENCLOSURE.	b
⊠◀	FIRE ALARM HORN/STROBE COMBINATION DEVICE.	I, m
⊠ WP	FIRE ALARM HORN/STROBE COMBINATION DEVICE, CAST SURFACE OUTLET BOX AND WEATHERPROOF ENCLOSURE.	I, m
$\vdash \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	FIRE ALARM STROBE.	I, m
LF◀	FIRE ALARM HORN DEVICE WITH LOW FREQUENCY SOUNDER.	I
LF∢×	FIRE ALARM HORN/STROBE DEVICE WITH LOW FREQUENCY SOUNDER.	I, m
⊘ FA	SMOKE DETECTOR, FA SYSTEM CONNECTION, CEILING SURFACE MOUNTED.	
⊢ ⊘ FA	SMOKE DETECTOR, FA SYSTEM CONNECTION, WALL MOUNTED 12" BELOW CEILING.	
⊢© _{FA}	WALL MOUNTED CARBON MONOXIDE DETECTOR(FA SYSTEM CONNECTION).	
•	HEAT DETECTOR - THERMAL DETECTOR. CEILING SURFACE MOUNTED.	
 WP	HEAT DETECTOR - THERMAL DETECTOR. CEILING SURFACE MOUNTED AND WEATHERPROOF ENCLOSURE.	
\Diamond	TAMPER DETECTOR/SWITCH	
\$	FLOW DETECTOR/SWITCH	
O _{AOM}	ADDRESSABLE OUTPUT MODULE/RELAY "AIR HANDLING"	
o ES AOM	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR SHUNT"	
oEPR AOM	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR PRIMARY RECALL"	
o <mark>ESR</mark> AOM	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR SECONDARY RECALL"	
oEM AIM	ADDRESSABLE INPUT MONITOR MODULE "ELEVATOR CONTROL POWER MONITOR"	
oEHL AOM	ADDRESSABLE OUTPUT MODULE/RELAY "FIREFIGHTERS HAT LAMP"	
LB	FIRE DEPARTMENT LOCK BOX (KNOX BOX), WEATHER-PROOF. LOCATE PER AHJ.	
FACP	FIRE ALARM CONTROL PANEL	n
FAA	FIRE ALARM ANNUNCIATOR	n
FATC	FIRE ALARM TERMINAL CABINET	n

SYMBOL LEGEND NOTES:

1. THE COLOR OF ALL DEVICES SHALL BE SELECTED BY THE ARCHITECT. COVER PLATES SHALL BE PLASTIC,

- UNLESS OTHERWISE NOTED.
 2. SCREENED ELECTRICAL ITEM DENOTES EXISTING.
- 3. "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.4. "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- 5. ALL DIMENSIONS INDICATED ARE TO THE BOTTOM OF FIXTURE, OUTLET, OR EQUIPMENT AND SHALL BE THE DIMENSIONS USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DIMENSIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE TO THE BOTTOM OF THE FIXTURE, OUTLET, OR EQUIPMENT UNLESS INDICATED OTHERWISE ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA DECLIPEDATE. VERIENCE AND
- INDICATED OTHERWISE. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS. VERIFY AND COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL FIXTURES, OUTLETS, AND EQUIPMENT WITH ALL DOCUMENTS AND DISCIPLINES (I.E., ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, MILLWORK, ETC.) PRIOR TO ROUGH-IN; ADJUST TO MEET ALL REQUIREMENTS.
- 6. ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.

 7. ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW
- ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW.
 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 9. U.O.N. = UNLESS OTHERWISE NOTED.
- 10. A.H.J. = AUTHORITY HAVING JURISDICTION.11. A.F.F. = ABOVE FINISHED FLOOR
- 12. ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUIT(S).

REMARKS:

- a. MOUNTED 16" ABOVE FINISHED FLOOR TO THE BOTTOM.
- b. MOUNTED 44" ABOVE FINISHED FLOOR TO THE BOTTOM.
- c. MOUNTED 50" ABOVE FINISHED FLOOR TO THE BOTTOM.d. OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLERS REQUIREMENTS.
- e. SUPPORT OUTLET BOX FROM STRUCTURE.
 f. JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICES FILL PER N.E.C.
- g. THREADED CONDUIT HUBS SHALL BE SIZED AND CONFIGURED AS REQUIRED FOR APPLICATION.
 h. PROVIDE STEEL CHANNEL MOUNTING RACK FOR FREE STANDING APPLICATIONS. STEEL CHANNEL SHALL BE PAINTED FOR EXTERIOR APPLICATIONS.
- WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.

 MAINTAIN WORKING CLEARANCES IN STRICT ACCORDANCE WITH N.E.C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ALL DISCIPLINES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION,
- MILLWORK, ETC.) PRIOR TO ROUGH-IN TO MAINTAIN CLEARANCES.

 k. "NL" INDICATES FIXTURE CONNECTED AHEAD OF ALL SWITCHES FOR 24 HOUR NIGHTLIGHT OPERATION.
- n. MOUNTED 72" ABOVE FINISHED FLOOR TO THE TOP.
 o. ALL DETECTORS IN EACH UNIT TO BE INTERLOCKED. ALARM ON ONE DETECTOR SHALL ACTUATE NOTIFICATION ON ALL CONNECTED DETECTORS.

PERMIT REVIEW STAMP

FUGLEBERG KOCH
PLLC

2555 Temple Trail, Winter Park, FL 32789
www. fuglebergkoch.com

(407) 629-0595
BR569

CONSULTANT
SALAS O'BRIE
| expect a difference |
3501 Quadrangle Boulevard, Suite 1
Orlando, Florida 32817
(407) 380-0400
CERT. OF AUTH. NO. 6106

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ADAM S. LEVINE, PE ON DATE INDICATED IN DIGITAL SIGNATURE USING A DIGITAL SIGNATURE.

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THE ROBERT

FT. MYERS, FL

SYMBOL LEGEND -ELECTRICAL

E0.01

F.A.C. 61G15-32.008 DESIGN OF FIRE ALARMS AND DETECTION SYSTEMS.

(1) FIRE ALARMS AND DETECTION SYSTEMS INCLUDE FIRE PROTECTION SUPERVISION, EMERGENCY ALARM CIRCUITS, ACTIVATION OF LIFE SAFETY SYSTEM CONTROLS AND REMOTE SIGNALING OF EMERGENCY CONDITIONS. (2) THE DESIGN SPECIFICATIONS SHALL BE BASED ON THE FLORIDA BUILDING CODE, THE FLORIDA FIRE PREVENTION CODE, OR AS REQUIRED BY THE LOCAL

AUTHORITY HAVING JURISDICTION. THE FLORIDA BUILDING CODE AND THE FLORIDA FIRE PREVENTION CODE ARE INCORPORATED BY REFERENCE IN RULE 61G15-18.011, F.A.C.

(3) FOR FIRE ALARM PLANS ON SMALL SYSTEMS BELOW THE THRESHOLD REQUIREMENTS FOR MANDATORY USE OF PROFESSIONAL ENGINEERING SERVICES, THE ENGINEER OF RECORD SHALL SPECIFY THE MINIMUM SYSTEM REQUIREMENTS. (4) TO ENSURE MINIMUM DESIGN QUALITY OF FIRE ALARM AND DETECTION SYSTEMS ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A

MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE a) THE DOCUMENTS SHALL BE CLEAR, WITH A SYMBOLS LEGEND, SYSTEM RISER DIAGRAM SHOWING ALL INITIATION AND NOTIFICATION COMPONENTS, AND CABLING REQUIREMENTS. THE DOCUMENTS SHALL INDICATE LOCATIONS WHERE FIRE RATINGS ARE REQUIRED AS DETERMINED BY THE SYSTEM'S SURVIVABILITY REQUIREMENTS, AND SHALL IDENTIFY THE GENERAL OCCUPANCY OF THE PROTECTED PROPERTY AND EACH ROOM AND AREA UNLESS IT IS

CLEAR FROM FEATURES SHOWN. (b) LOCATE INITIATION AND NOTIFICATION DEVICES AND CONNECTIONS TO RELATED SYSTEMS ON THE FLOOR PLANS AND SECTIONS WHEN NEEDED FOR CLARITY. RELATED SYSTEMS INCLUDE ELEVATOR CONTROLS SMOKE CONTROL SYSTEMS, DAMPERS, AND DOORS.

c) STROBE INTENSITY AND SPEAKER OUTPUT RATINGS FOR ALL NOTIFICATION DEVICES.

(d) IDENTIFY THE CLASS OF CIRCUITS AS LISTED IN NFPA 72, WHICH IS CONTAINED WITHIN AND INCORPORATED INTO THE FLORIDA FIRE PREVENTION CODE. (e) IDENTIFY THE FUNCTIONS REQUIRED BY THE ALARM AND CONTROL SYSTEMS INCLUDING THE TRANSMISSION OF EMERGENCY SIGNALS BEING MONITORED OR

(f) INDICATE WHETHER THE FIRE ALARM IS CONVENTIONAL OR ADDRESSABLE, AND INDICATE ALL ZONING.

(g) LOCATE SURGE PROTECTIVE DEVICES AND REQUIRED PROTECTIVE FEATURES.

(h) LOCATE SYSTEM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS, AND INDICATE REQUIREMENTS FOR THE PROTECTION OF EQUIPMENT FROM TEMPERATURE, HUMIDITY OR CORROSIVE ATMOSPHERES, INCLUDING COASTAL SALT AIR.

(i) THE DOCUMENTS SHALL INCLUDE A SITE PLAN OF THE IMMEDIATE AREA AROUND THE PROTECTED BUILDING, STRUCTURE OR EQUIPMENT WHEN ALARM DEVICES ARE REQUIRED OUTSIDE THE STRUCTURE.

(j) IN BUILDINGS WERE SMOKE DETECTION WILL BE OBSTRUCTED BY WALLS, BEAMS OR CEILING FEATURES, THE ENGINEER OF RECORD SHALL PROVIDE APPLICABLE DESIGN AND DETAILS TO DIRECT THE INSTALLER TO MITIGATE THE OBSTRUCTIONS. IN BUILDINGS WITH SMOKE DETECTION UNDER A PITCHED ROOF, THE PLANS SHALL INDICATE THE ROOF PITCH AND A BUILDING SECTION SHALL BE PROVIDED AS PART OF THE ENGINEERING DESIGN DOCUMENTS.

THE NECESSARY CRITERIA TO MITIGATE THE DETECTION PROBLEMS. (I) SYSTEMS DESIGNED USING PERFORMANCE BASED CRITERIA SHALL BE IDENTIFIED AND REFERENCED TO DESIGN GUIDES OR STANDARDS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION CONSISTENT WITH STANDARDS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE AND THE FLORIDA BUILDING

(k) FOR FIRE DETECTION SYSTEMS UTILIZING SMOKE DETECTION IN SITUATIONS WHERE SMOKE STRATIFICATION IS ANTICIPATED, THE DESIGN SHALL PROVIDE

(m) THE SYSTEM DESIGN MUST INDICATE IF THE SYSTEM IS TO PROVIDE A GENERAL EVACUATION SIGNAL OR A ZONED EVACUATION FOR ALL HIGH-RISE

BUILDINGS OR MULTI-TENANTED PROPERTIES AS DEFINED IN SECTION 2 OF THE FLORIDA BUILDING CODE, BUILDING. n) WIRING REQUIREMENTS FOR UNDERGROUND, WET LOCATIONS, CAMPUS STYLE WIRING, PROTECTION AGAINST DAMAGE AND BURIAL DEPTH SHALL BE

SPECIFIED OR INDICATED ON THE ENGINEERING DESIGN DOCUMENTS) REQUIREMENTS FOR OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION, AND INSTRUCTION OF OWNER'S OPERATING

PERSONNEL, AS NEEDED TO OPERATE THE SYSTEMS AS INTENDED OVER TIME. (5) IN THE EVENT THAT THE ENGINEER OF RECORD ELECTS TO SPECIFY SPECIFIC EQUIPMENT AND TO SHOW THE REQUIRED WIRING, BATTERY AND VOLTAGE DROP (CIRCUIT ANALYSIS) CALCULATIONS SHALL BE COMPLETED. THE CALCULATIONS SHALL BE COMPLETED USING THE EQUIPMENT MANUFACTURE'S DATA AND APPLICABLE NFPA 72 PROCEDURES.

(6) SYSTEM TEST REQUIREMENTS SHALL BE NOTED ON THE ENGINEERING DESIGN DOCUMENTS.

7) WHEN THE ENGINEER DETERMINES THAT SPECIAL REQUIREMENTS ARE REQUIRED BY THE OWNER, INSURANCE UNDERWRITER OR LOCAL FIRE CODE AMENDMENTS THESE REQUIREMENTS SHALL BE DOCUMENTED OR REFERENCED ON THE ENGINEERING DESIGN DOCUMENTS.

(a) THE DOCUMENTS SHALL BE CLEAR, WITH A SYMBOLS LEGEND, SYSTEM RISER DIAGRAM SHOWING ALL INITIATION AND NOTIFICATION COMPONENTS, AND CABLING REQUIREMENTS. THE DOCUMENTS SHALL INDICATE LOCATIONS WHERE FIRE RATINGS ARE REQUIRED AS DETERMINED BY THE SYSTEM'S SURVIVABILITY REQUIREMENTS AND SHALL IDENTIFY THE GENERAL OCCUPANCY OF THE PROTECTED PROPERTY AND EACH ROOM AND AREA UNLESS IT IS CLEAR FROM FEATURES SHOWN.

Symbol legend is located on drawing E0.01. FA riser diagram is located on drawing E5.04.

Cabling requirements are addressed on Fire Alarm Riser Diagram General Note #13.

Survivability requirements are addressed on Fire Alarm Riser Diagram General Note #12. Room identifications are shown on floor plans.

Fire alarm devices are indicated on floor plans with symbols and plan notes.

(b) LOCATE INITIATION AND NOTIFICATION DEVICES AND CONNECTIONS TO RELATED SYSTEMS ON THE FLOOR PLANS AND SECTIONS WHEN NEEDED FOR CLARITY. RELATED SYSTEMS INCLUDE ELEVATOR CONTROLS SMOKE CONTROL SYSTEMS, DAMPERS, AND DOORS.

(c) STROBE INTENSITY AND SPEAKER OUTPUT RATINGS FOR ALL NOTIFICATION DEVICES.

Per symbol legend remark 'm' on drawing E0.01 (referencing fire alarm symbol legend) all strobe intensities are to be 75cd (or as noted on drawings). Audible notification is via horn type devices with a fixed output as listed by manufacture complying with UL and NFPA 72.

 $_{
m d}$) IDENTIFY THE CLASS OF CIRCUITS AS LISTED IN NFPA 72, WHICH IS CONTAINED WITHIN AND INCORPORATED INTO THE FLORIDA FIRE $_{
m l}$

PREVENTION CODE. Circuit Class identification is addressed on Fire Alarm Riser Diagram General Note #14 on drawing E5.04.

(e) IDENTIFY THE FUNCTIONS REQUIRED BY THE ALARM AND CONTROL SYSTEMS INCLUDING THE TRANSMISSION OF EMERGENCY

SIGNALS BEING MONITORED OR ANNUNCIATED. Fire alarm functions are addressed on input-output matrix on drawing E6.02.

(f) INDICATE WHETHER THE FIRE ALARM IS CONVENTIONAL OR ADDRESSABLE AND INDICATE ALL ZONING. Fire alarm is a non-coded addressable type system as indicated on Fire Alarm Riser Diagram General Note #16 on drawing E5.04, as well as

(g) LOCATE SURGE PROTECTIVE DEVICES AND REQUIRED PROTECTIVE FEATURES.

Surge suppression requirements are addressed on Fire Alarm Riser Diagram General Notes #1 and #5 on drawing E5.04.

Weatherproof devices are indicated on electrical floor plans and are on symbol legend located on drawing E0.01.

(h) LOCATE SYSTEM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS AND INDICATE REQUIREMENTS FOR THE PROTECTION OF EQUIPMENT FROM TEMPERATURE, HUMIDITY OR CORROSIVE ATMOSPHERES, INCLUDING COASTAL SALT AIR.

(i) THE DOCUMENTS SHALL INCLUDE A SITE PLAN OF THE IMMEDIATE AREA AROUND THE PROTECTED BUILDING, STRUCTURE OR

EQUIPMENT WHEN ALARM DEVICES ARE REQUIRED OUTSIDE THE STRUCTURE. Site Plan of the project immediate area is provided on drawing E1.01.

(j) IN BUILDINGS WERE SMOKE DETECTION WILL BE OBSTRUCTED BY WALLS, BEAMS OR CEILING FEATURES, THE ENGINEER OF RECORD SHALL PROVIDE APPLICABLE DESIGN AND DETAILS TO DIRECT THE INSTALLER TO MITIGATE THE OBSTRUCTIONS. IN BUILDINGS WITH SMOKE DETECTION UNDER A PITCHED ROOF, THE PLANS SHALL INDICATE THE ROOF PITCH AND A BUILDING SECTION SHALL BE

PROVIDED AS PART OF THE ENGINEERING DESIGN DOCUMENTS. All smoke detectors are located on smooth ceilings.

(k) FOR FIRE DETECTION SYSTEMS UTILIZING SMOKE DETECTION IN SITUATIONS WHERE SMOKE STRATIFICATION IS ANTICIPATED, THE

DESIGN SHALL PROVIDE THE NECESSARY CRITERIA TO MITIGATE THE DETECTION PROBLEMS.

Smoke stratification is not expected to occur.

Specification 287220 - Section 2.2(K).

(I) SYSTEMS DESIGNED USING PERFORMANCE BASED CRITERIA SHALL BE IDENTIFIED AND REFERENCED TO DESIGN GUIDES OR STANDARDS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION CONSISTENT WITH STANDARDS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE AND THE FLORIDA BUILDING CODE.

Refer to fire alarm Specification 287220 - Section 1.2-SYSTEM DESCRIPTION. References to the applicable codes have been included in the fire alarm input-output matrix on drawing E6.02.

(m) THE SYSTEM DESIGN MUST INDICATE IF THE SYSTEM IS TO PROVIDE A GENERAL EVACUATION SIGNAL OR A ZONED EVACUATION FOR ALL HIGH-RISE BUILDINGS OR MULTI-TENANTED PROPERTIES AS DEFINED IN SECTION 2 OF THE FLORIDA BUILDING CODE,

Building is not a high-rise building. Fire alarm evacuation signal is a general building wide evacuation signal. Refer to Fire Alarm Riser Diagram General Note #15 on drawing E5.04 and fire alarm counterpoise detail on drawing E6.01.

(n) WIRING REQUIREMENTS FOR UNDERGROUND, WET LOCATIONS, CAMPUS STYLE WIRING, PROTECTION AGAINST DAMAGE AND BURIAL

DEPTH SHALL BE SPECIFIED OR INDICATED ON THE ENGINEERING DESIGN DOCUMENTS. Refer to Fire Alarm Riser Diagram General Note #3 on drawing E5.04.

(o) REQUIREMENTS FOR OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION, AND INSTRUCTION OF OWNER'S OPERATING PERSONNEL, AS NEEDED TO OPERATE THE SYSTEMS AS INTENDED OVER TIME.

Requirements for operations and maintenance procedures and manuals are referenced in fire alarm Specification 287220 - Section 1.4(E)-OPERATION AND MAINTENANCE DATA. This section includes requirements for maintenance and operation manuals. Requirements for system documentation is referenced in FA Specification 287220 - Section 3.5-FIELD QUALITY CONTROL. This section includes requirements for initial inspections, testing, and factory service representative documentation. Requirements for instruction of Owner's operating personnel is referenced in FA Specification Section 287220 - 3.6-DEMONSTRATION. This section includes direction for Owner's personnel operation and maintenance of FA system.

(6) SYSTEM TEST REQUIREMENTS SHALL BE NOTED ON THE ENGINEERING DESIGN DOCUMENTS.

System test requirements are listed in FA Specification 287220 - Section 3.5(B).

(7) WHEN THE ENGINEER DETERMINES THAT SPECIAL REQUIREMENTS ARE REQUIRED BY THE OWNER, INSURANCE UNDERWRITER OR LOCAL FIRE CODE AMENDMENTS THESE REQUIREMENTS SHALL BE DOCUMENTED OR REFERENCED ON THE ENGINEERING DESIGN

The engineer is not aware of any special requirements by the owner, insurance underwriter, or local fire code amendments.

TYPE		LAMP DATA	FIXTURE DESCRIPTION		FIXTURE DATA		VOLTAGE	SEE
	NO.	TYPE		MANUFACTURER	CATALOG NUMBER	MOUNT	1	NOTE
Α	NA	64W LED	52"L X 12"W LINEAR PUFF LED LUMINAIRE WITH WHITE FINISH AND WHITE ACRYLIC LENS	DIVINE LTG.	5212-WH-LED64-30-WA	SURF	120	5,9
В	5	25W TYPE G INCAND.	36" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	626-NI	WALL	120	1,4
B1	6	25W TYPE G INCAND.	48" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	628-NI	WALL	120	1,4
вм	4	25W TYPE G INCAND.	24" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	624-NI	WALL	120	1,4
С	NA	9W LED	4" DIAMETER FLUSH MOUNTED LED LUNINAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP4-W27-120-WH	REC	120	9
D	NA	13W LED	6" DIAMETER FLUSH MOUNTED LED LUNINAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP6-W27-120-WH	REC	120	9
D1	NA	13W LED	7.5" DIAMETER FLUSH MOUNTED LED LUNINAIRE WITH WHITE FINISH	UTILITECH	749834	REC	120	5,9
D2	NA	13W LED	6" DIAMETER FLUSH MOUNTED LED LUNINAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP6-W27-120-WH	REC	120	9
F1	NA	16W LED	50" PADDLE FAN, BRUSHED NICKEL FINISH WITH LIGHT KIT	ROYAL PACIFIC	1004-LED-BN	PEND	120	3,10
G	NA	28W LED	7" DIAMETER LED FLUSH MOUNTED SHOWER LIGHT, WHITE FINISH, LISTED FOR WET LOCATIONS	LITHONIA	FMML-7-830-WL	REC	120	6
Н	1	60W A19	DECORATIVE 6.25" DIAMETER MINI-PENDANT INCANDESCENT LIGHT WITH BRUSHED NICKEL FINISH AND ALABASTER GLASS DIFFUSER	VALUE LTG.	102860BN	PEND	120	1,2
K	1	100W A19	PORCELAIN LAMP HOLDER WITH WIRE GUARD	N/A	CONTRACTOR'S SELECTION	TRUSS	120	1
L	NA	39W LED	32.5" X 18" OVAL CEILING MOUNTED LED DECORATIVE FIXTURE WITH BRUSHED NICKEL FINISH AND WHITE ACRYLIC DIFFUSER	PROGRESS LTG.	P7251-0930K9	CLG	120	
М	NA	18W LED	2' LED STRIP LIGHT WITH OPAL ACRYLIC LENS	ROYAL PACIFIC	4309WH	SURF	120	
N	NA	27W LED	2' LED ENCLOSED & GASKETED LUMINAIRE WITH FIBERGLASS HOUSING AND INJECTED-MOLDED ACRYLIC LENS	LITHONIA LTG.	DMW2-L24-3000LM-ACL-MD-120-GZ10- 35K-80CRI	SURF	120	
SLW	NA	23W LED	FULL CUT-OFF LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND BLACK FINISH	LITHONIA LTG.	WDGE2-LED-P3-30K-80CRI-VF-MVOLT- DBLXD	WALL	120	6,7,8
٧	NA	12W LED	WALL MOUNTED LED ADDRESS SIGN LIGHT	DIVINE LTG.	ML-XX-LED12-30	WALL	120	6,7,8
WL1	1	9W LED	DECORATIVE EXTERIOR WALL SCONCE WITH COPPER OXIDE FINISH	MAXIM LTG.	55163GFCO	WALL	120	6,7

1. PROVIDE LAMPS.

2. VERIFY MOUNTING HEIGHT WITH ARCHITECT.

3. PROVIDE 3 SPEED SOLID STATE CONTROL SWITCH.

4. REFER TO ARCHITECT'S ELEVATIONS IN BATHROOMS.

5. U.L. DAMP LOCATION LISTED.

6. U.L. WET LOCATION LISTED.

7. REFER TO ARCHITECT'S BUILDING ELEVATIONS FOR MOUNTING HEIGHT. 8. VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.

9. VERIFY FIXTURE COLOR TEMPERATURE WITH ARCHITECT PRIOR TO ORDERING.

10. COORDINATE DOWNROD LENGTH WITH ARCHITECT.

		LIGHTIN	IG FIXTURE SCHEDULE - CLUBHOUSE	& TRAS	SH ENCLOSURE			
TYPE		LAMP DATA	FIXTURE DESCRIPTION		FIXTURE DATA		VOLTAGE	SEE
	NO.	TYPE		MANUFACTURER	CATALOG NUMBER	MOUNT		NOTE
А	NA	20W LED	13" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1800 LUMEN OUTPUT)	JUNO LTG.	JSF-13IN-18LM-30K-90CRI-MVOLT ZT- WH	CLG	120	7
В	NA	13W LED	7" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1000 LUMEN OUTPUT)	JUNO LTG.	JSF-7IN-10LM-30K-90CRI-MVOLT ZT- WH	CLG	120	7
С	3	4W G9 LED	20" THREE LIGHT BATH/VANITY FIXTURE WITH COATED GLASS SHADES AND CHROME FINISH	EGLO LTG.	200217A/ALEA 1	WALL	120	1, 6
EM	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, U.L. LISTED	LITHONIA LTG.	ELM6-LED-W	SURF	120	4, 7
EMW	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, WET LOCATION , U.L. LISTED	EXITRONIX	CP-EMW-8-LED-SA-WL	SURF	120	4, 8
F1	NA	NA	56" CEILING FAN WITH GLOSS WHITE FINISH AND WHITE BLADE COLOR	MODERN FAN CO.	IC3-GW-56-WH-NL-WC	PEND	120	2
F2	1	100W T4 E11 MIN. CAND.	52" OUTDOOR CEILING FAN WITH BRUSHED NICKEL FINISH AND INTEGRATED LIGHT	MINKA AIR	F577-BNW	PEND	120	2,7
F3	NA	NA	154" STUDIO EAN WITH BRUSHED PEWTER FINISH	MONTE CARLO FAN CO.	3SU54BP	PEND	120	2
Н	NA	22W LED	24" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L24-2500LM-FST-120-35K	TRUSS	120	
К	NA	41WLED	48" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L48-5000LM-FST-120-35K	CLG	120	
SLW	NA	23W LED	FULL CUT-OFF LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND BLACK FINISH	LITHONIA LTG.	WDGE2-LED-P3-30K-80CRI-VF-MVOLT- DBLXD	WALL	120	8,10
WL1	NA	21WLED	25" HIGH DECORATIVE EXTERIOR WALL SCONCE WITH WHITE ACRYLIC DIFFUSER AND BLACK FINISH	BROWNLEE	7329-BL-H21-30K	WALL	120	8,10
Х	NA	LED	SELF-POWERED UNIVERSAL LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING,	LITHONIA LTG.	LQM-S-W-3-R-120-ELN	SURF	120	3,4,7

NOTES:

PROVIDE LAMPS.

2. VERIFY DOWNROD LENGTH WITH ARCHITECT/INTERIOR DESIGNER.

4. CONNECT FIXTURE TO LOCAL CIRCUIT AHEAD OF SWITCHING.

5. VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING

9. IC RATED FOR DIRECT CONTACT WITH INSULATION.

6. REFER TO ARCHITECT'S ELEVATIONS IN BATHROOMS.

10. REFER TO ARCHITECT'S ELEVATIONS FOR MOUNTING HEIGHT/LOCATIONS.

TYPE		LAMP DATA	FIXTURE DESCRIPTION		FIXTURE DATA		VOLTAGE	SEE
	NO.	TYPE		MANUFACTURER	CATALOG NUMBER	MOUNT		NOTE
А	NA	20W LED	13" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1800 LUMEN OUTPUT)	JUNO LTG.	JSF-13IN-18LM-30K-90CRI-MVOLT ZT- WH	CLG	120	7
В	NA	13W LED	7" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1000 LUMEN OUTPUT)	JUNO LTG.	JSF-7IN-10LM-30K-90CRI-MVOLT ZT- WH	CLG	120	7
С	3	4W G9 LED	20" THREE LIGHT BATH/VANITY FIXTURE WITH COATED GLASS SHADES AND CHROME FINISH	EGLO LTG.	200217A/ALEA 1	WALL	120	1, 6
EM	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, U.L. LISTED	LITHONIA LTG.	ELM6-LED-W	SURF	120	4, 7
EMW	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, WET LOCATION , U.L. LISTED	EXITRONIX	CP-EMW-8-LED-SA-WL	SURF	120	4, 8
F1	NA	NA	56" CEILING FAN WITH GLOSS WHITE FINISH AND WHITE BLADE COLOR	MODERN FAN CO.	IC3-GW-56-WH-NL-WC	PEND	120	2
F2	1	100W T4 E11 MIN. CAND.	52" OUTDOOR CEILING FAN WITH BRUSHED NICKEL FINISH AND INTEGRATED LIGHT	MINKA AIR	F577-BNW	PEND	120	2,7
F3	NA	NA	54" STUDIO FAN WITH BRUSHED PEWTER FINISH	MONTE CARLO FAN CO.	3SU54BP	PEND	120	2
н	NA	22W LED	24" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L24-2500LM-FST-120-35K	TRUSS	120	
К	NA	41W LED	48" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L48-5000LM-FST-120-35K	CLG	120	
SLW	NA	23W LED	FULL CUT-OFF LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND BLACK FINISH	LITHONIA LTG.	WDGE2-LED-P3-30K-80CRI-VF-MVOLT- DBLXD	WALL	120	8,10
WL1	NA	21W LED	25" HIGH DECORATIVE EXTERIOR WALL SCONCE WITH WHITE ACRYLIC DIFFUSER AND BLACK FINISH	BROWNLEE	7329-BL-H21-30K	WALL	120	8,10
Х	NA	LED	SELF-POWERED UNIVERSAL LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, U.L. LISTED.	LITHONIA LTG.	LQM-S-W-3-R-120-ELN	SURF	120	3 , 4, 7

3. PROVIDE CHEVRONS AS SHOWN ON PLANS.

7. U.L. DAMP LOCATION LISTED.

8. U.L. WET LOCATION LISTED.

GENERAL ELECTRICAL NOTES

1) ALL 120V, 20A CIRCUIT HOMERUNS OVER 50FT. SHALL BE #10 CU. MINIMUM, UNLESS NOTED OTHERWISE.

2) ALL 120V, 20A CIRCUIT HOMERUNS OVER 150FT. SHALL BE #8 CU. MINIMUM, UNLESS NOTED OTHERWISE.

3) COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN MECH. ROOMS/SPACES WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK (8'-0" AFF MINIMUM) CENTERED IN ROOM AS MUCH AS POSSIBLE.

 COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK INSTALLER PRIOR TO ROUGH-IN.

5) VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

6) REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.

7) PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS.

8) COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT, (I.E. MOTORS, HVAC, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT ETC). WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC.

9) THE USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING OR INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. THE REQUIREMENTS OF THIS SPECIFICATION FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM SHALL BE MET WITHOUT THE USE OF ASBESTOS OR PCB.

THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.

10) THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE SSC AT EACH POINT IN THE ELECTRICAL SYSTEM.

(1) VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR. EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.

12) CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.

13) PANEL SCHEDULES INDICATE CIRCUIT DESIGNATIONS ONLY. CONTRACTOR TO PROVIDE MATERIALS AS REQUIRED WHEN NEUTRALS ARE SHARED TO COMPLY WITH NEC REQUIREMENTS. ALL SINGLE PHASE MULTIWIRE BRANCH CIRCUITS SHALL BE FED VIA A TWO POLE BREAKER OR TWO SINGLE POLE BREAKERS WITH AN IDENTIFIED HANDLE TIE.

14) TYPE NM AND SE/SER CABLE IS PERMISSIBLE WHERE INSTALLED PER 2014 NEC REQUIREMENTS IN MULTI-FAMILY STRUCTURES ONLY.

15) ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED PARTITIONS AND OTHER ASSEMBLIES, INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES. CONDUITS AND OTHER PENETRATING ITEMS, SHALL BE FIRE-STOPPED TO PRESERVE THE FIRE RATING OF THE ASSEMBLY. ALL OUTLET BOXES LOCATED IN FIRE RATED WALLS/CEILINGS ARE TO BE RATED IN ORDER TO PRESERVE THE FIRE RATING OF THE ASSEMBLY. REFER TO ARCHITECTURAL PLANS FOR FIRE-STOPPING DETAILS.

16) AN IN-BUILDING RADIO SIGNAL AMPLIFICATION SYSTEM TO PROVIDE COMPLETE COVERAGE FOR THE PUBLIC SAFETY AGENCIES, AS REQUIRED BY THE LOCAL AHJ, MAY BE REQUIRED IN ALL BUILDINGS. REFER TO GENERAL NOTE #8 ON DRAWING E6.02 REGARDING MINIMUM REQUIREMENTS FOR BDA SYSTEM AS WELL AS REQUIREMENTS FOR ALTERNATE BIDS.

BRANCH CIRCUIT WIRING

1) WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.

2) WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.

3) ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

4) ALTHOUGH ALL BRANCH WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

5) PROVIDE A GREEN GROUND CONDUCTOR IN ALL CIRCUITS. APPROPRIATELY INCREASE SIZE OF CONDUITS TO ACCOMMODATE GROUND CONDUCTOR.

6) UNLESS SHOWN OTHERWISE (BRANCH CIRCUITING INSTRUCTIONS):

A) 1600 VOLT-AMPS MAXIMUM PER 20A/1P CIRCUIT, UNLESS SHOWN OTHERWISE.

B) 6 CONVENIENCE OUTLETS MAXIMUM PER 20A/1P BRANCH CIRCUIT.

7) OUTLETS MOUNTED IN FIRE WALLS AND CEILINGS SHALL COMPLY WITH U.L. CATEGORY OF "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE".

8) UTILIZE 15A RATED DEVICES IN ALL RESIDENTIAL UNITS. UTILIZE 20A RATED DEVICES IN CLUBHOUSE, MAIL KIOSK AND FOR ALL DEVICES UTILIZED IN MULTI-FAMILY BUILDINGS (NOT LOCATED IN APARTMENT UNITS).

9) ALL RECEPTACLES INSTALLED IN WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF "IN-USE" COVER.

10) IN ADDITION TO WEATHER PROOF (WP) COVER AND GFCI PROTECTION, 15A AND 20A, 125V AND 250V RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" TYPE (WR) PER NEC SECTIONS 406.9(A) AND 406.9(B)(1).

TELEVISION CABLING

1) PROVIDE ALL NECESSARY CABLING, BOXES AND RELATED ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION OF TELEVISION CABLING SERVICE TO EACH UNIT. REFER TO SPECIFICATIONS.

2) COORDINATE WITH OWNER'S LOCAL CABLE TELEVISION COMPANY.

TELE.-VOICE/DATA CABLING

1) PROVIDE ALL NECESSARY CABLING, BOXES AND RELATED ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION OF VOICE/DATA CABLING SERVICE TO EACH UNIT. REFER TO SPECIFICATIONS.

COORDINATE WITH OWNER'S LOCAL TELECOMMUNICATIONS COMPANY.

ISSUE HISTORY No. Date 11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 02/28/20 PERMIT REVIEW SET REVISION HISTORY Date Description 06/03/20 PERMIT COMMENT RESPONSES

PERMIT REVIEW STAMF





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GARY A. WILKERSON, P.E. 43167

THE ROBERT

FT. MYERS, FL LIGHT FIXT. SCHED. AND GEN. NOTES - ELECTRICAL

E0.02

PLOTTED: 6/4/2020



LOTTED: 6/4/2020

- CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- (3) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- 4 DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT DESIGNATIONS AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- (5) COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- (6) REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 7 PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- (8) PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

1) PROVIDE SINGLE POLE KEY SWITCH FOR

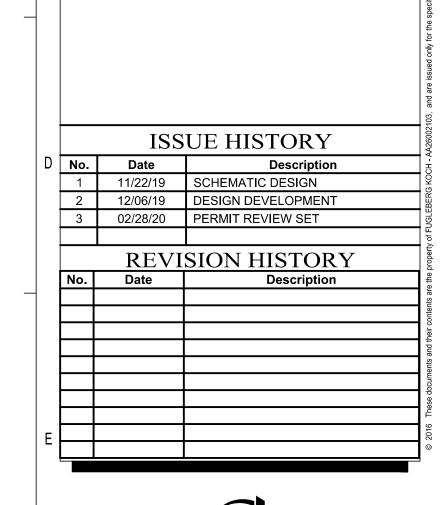
- GENERAL NOTES . VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR
 - PRIOR TO ROUGH-IN. 2. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO

CONNECTION REQUIREMENTS.

- HOUSE PANEL 'H1' (UNLESS NOTED OTHERWISE). REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT
- 4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
- REFER TO TYPICAL UNIT PLANS FOR ALL
- ELECTRICAL REQUIREMENTS IN UNITS.
- 6. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L.

REFER TO SPECIFICATIONS.

ELECTRICAL CONTRACTOR TO COORDINATE REQUIRED SPACE ON BUILDING EXTERIOR WALL FOR INSTALLATION OF APPROVED METER CENTER/HOUSE PANEL WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.



PERMIT REVIEW STAMP





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THE ROBERT

FT. MYERS, FL

BUILDING TYPE 1 - GROUND LEVEL - ELECTRICAL

E2.01

BUILDING TYPE 1 - GROUND LEVEL - ELECTRICAL

1/8" = 1'-0"

GARAGE

G101

7 **K** WL1 (3)(6)

GARAGE

G101

UNIT B1

GARAGE

G101

GARAGE ENTRY

G102

GARAGE

G101

O 73(TYP)

UNIT B1

107

4\5\(TYP)

UNIT B1

GARAGE

G101

GARAGE ENTRY

G102

GARAGE

G101

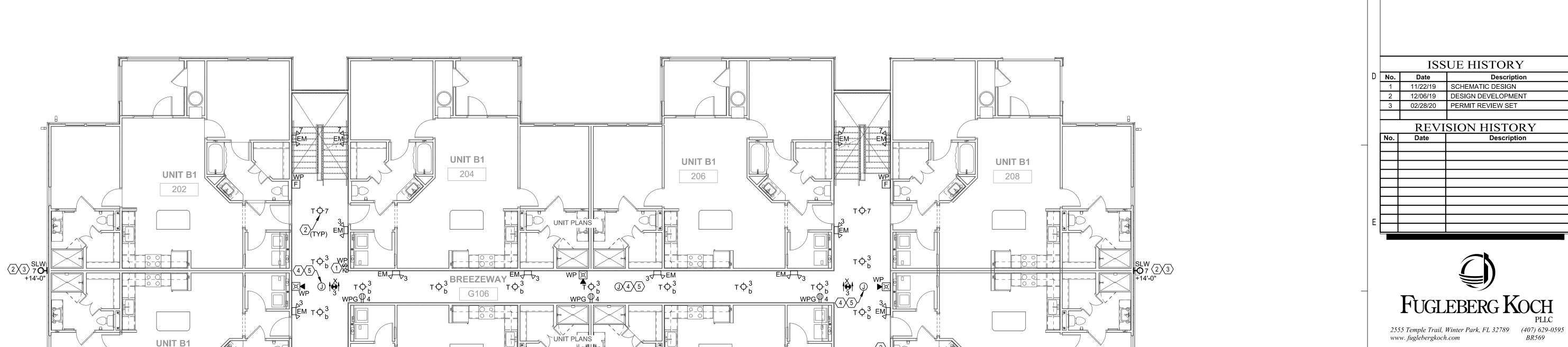
HOUSE PANEL 'H1'

METER CENTER

101

PLOTTED: 6/4/2020 11:34:39 AM

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- (5) PROVIDE 18"x18" CEILING RATED ACCESS PANEL.



UNIT B1 207

BUILDING TYPE 1 - 2ND LEVEL - ELECTRICAL

1/8" = 1'-0"

205

UNIT B2S

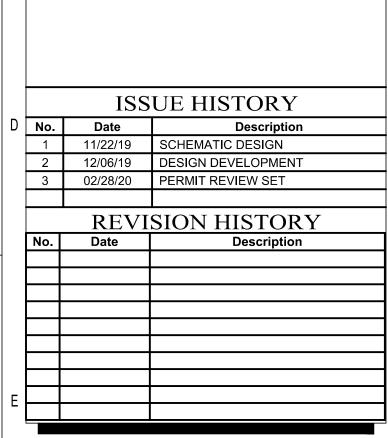
203

201

GENERAL NOTES

1. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO HOUSE PANEL 'H1' (UNLESS NOTED OTHERWISE).

- 2. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
- REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.



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09/10/2019

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BUILDING TYPE 1 - 2ND LEVEL - ELECTRICAL

E2.02

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- (3) LIGHT FIXTURE SWITCH AND RECEPTACLE IN ATTIC ADJACENT TO ACCESS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- (4) REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 5 PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.

GENERAL NOTES

1. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO HOUSE PANEL 'H1' (UNLESS NOTED OTHERWISE).

2. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.

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ISSUE HISTORY

REVISION HISTORY

FUGLEBERG KOCH

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Description

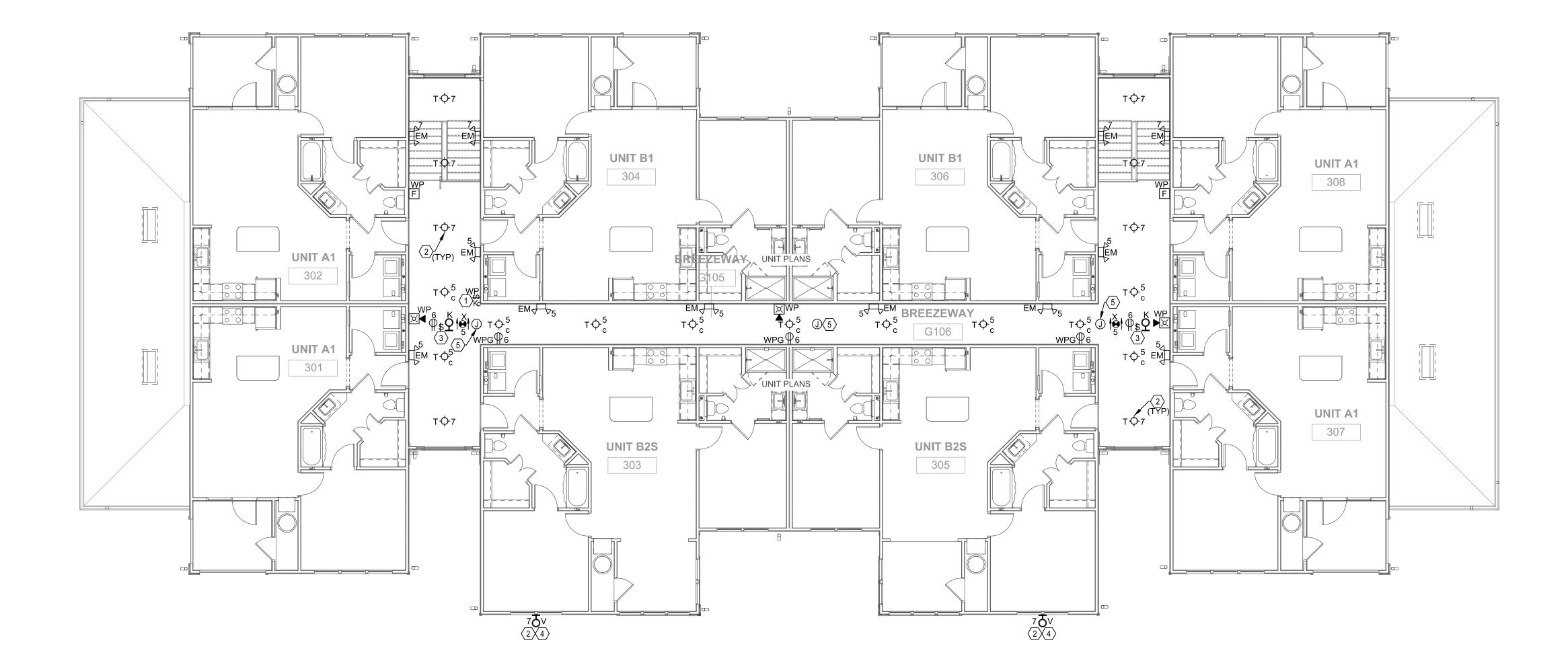
11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 02/28/20 PERMIT REVIEW SET

Date

Date

No.

3. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.



BUILDING TYPE 1 - 3RD LEVEL - ELECTRICAL

1/8" = 1'-0"

THE ROBERT

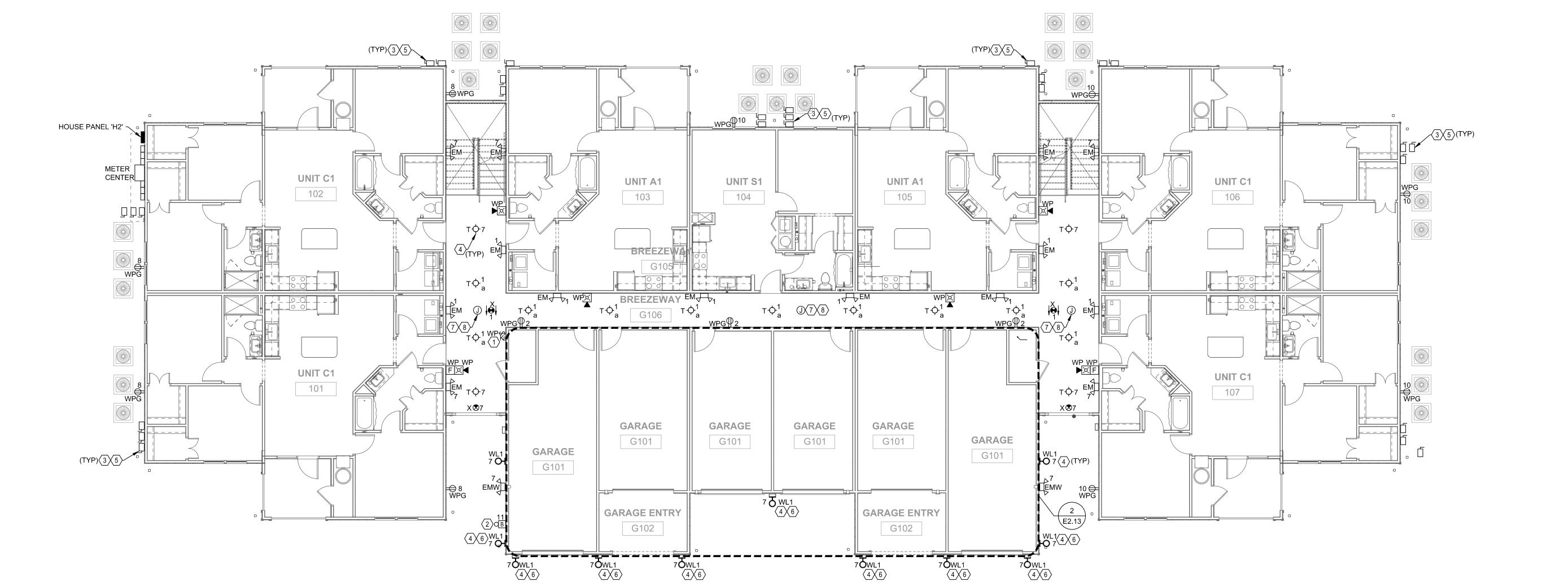
FT. MYERS, FL

BUILDING TYPE 1 - 3RD LEVEL - ELECTRICAL

E2.03

PLOTTED: 6/4/2020 11:35:20 AM

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 2 REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT DESIGNATIONS AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 7 PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- $\langle 8 \rangle$ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.



BUILDING TYPE 2 - GROUND LEVEL - ELECTRICAL

1/8" = 1'-0"

GENERAL NOTES

- VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR

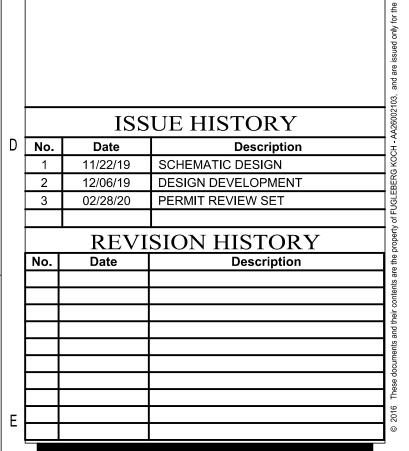
 DOLLO IN TO DOLLO IN THE PROPERTY OF TH
- PRIOR TO ROUGH-IN.

 2. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO

CONNECTION REQUIREMENTS.

- HOUSE PANEL 'H2' (UNLESS NOTED OTHERWISE).

 3. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT
- 4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
- REFER TO TYPICAL UNIT PLANS FOR ALL
- ELECTRICAL REQUIREMENTS IN UNITS.
- 6. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.
- 7. ELECTRICAL CONTRACTOR TO COORDINATE REQUIRED SPACE ON BUILDING EXTERIOR WALL FOR INSTALLATION OF APPROVED METER CENTER/HOUSE PANEL WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.



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CONSULTANT
SALAS O'BRIEN

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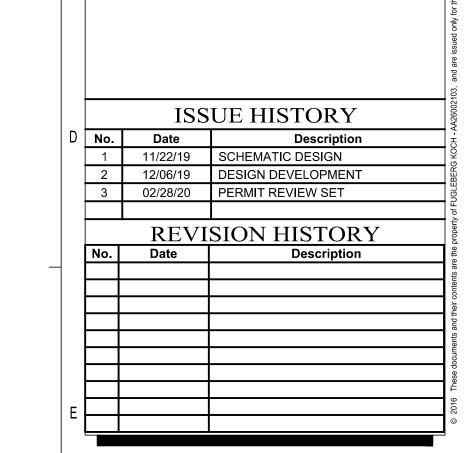
THE ROBERT

FT. MYERS, FL

BUILDING TYPE 2 - GROUND LEVEL - ELECTRICAL

E2.05

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA
 SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR
 CONDUIT/CABLE SIZES.
- (5) PROVIDE 18"x18" CEILING RATED ACCESS PANEL.



PERMIT REVIEW STAMP

GENERAL NOTES

SWITCHES AND CONTROLS.

1. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO HOUSE PANEL 'H2' (UNLESS NOTED OTHERWISE).

2. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS

TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL

REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.





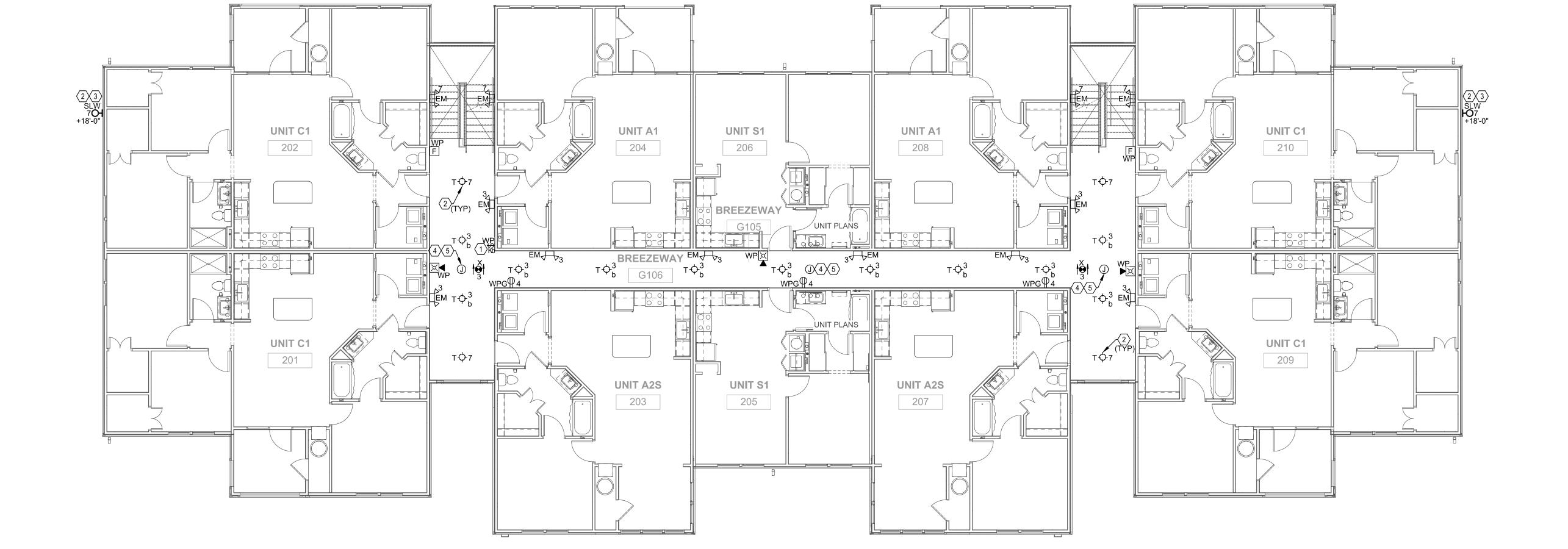
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BUILDING TYPE 2 - 2ND LEVEL - ELECTRICAL

E2.06



BUILDING TYPE 2 - 2ND LEVEL - ELECTRICAL

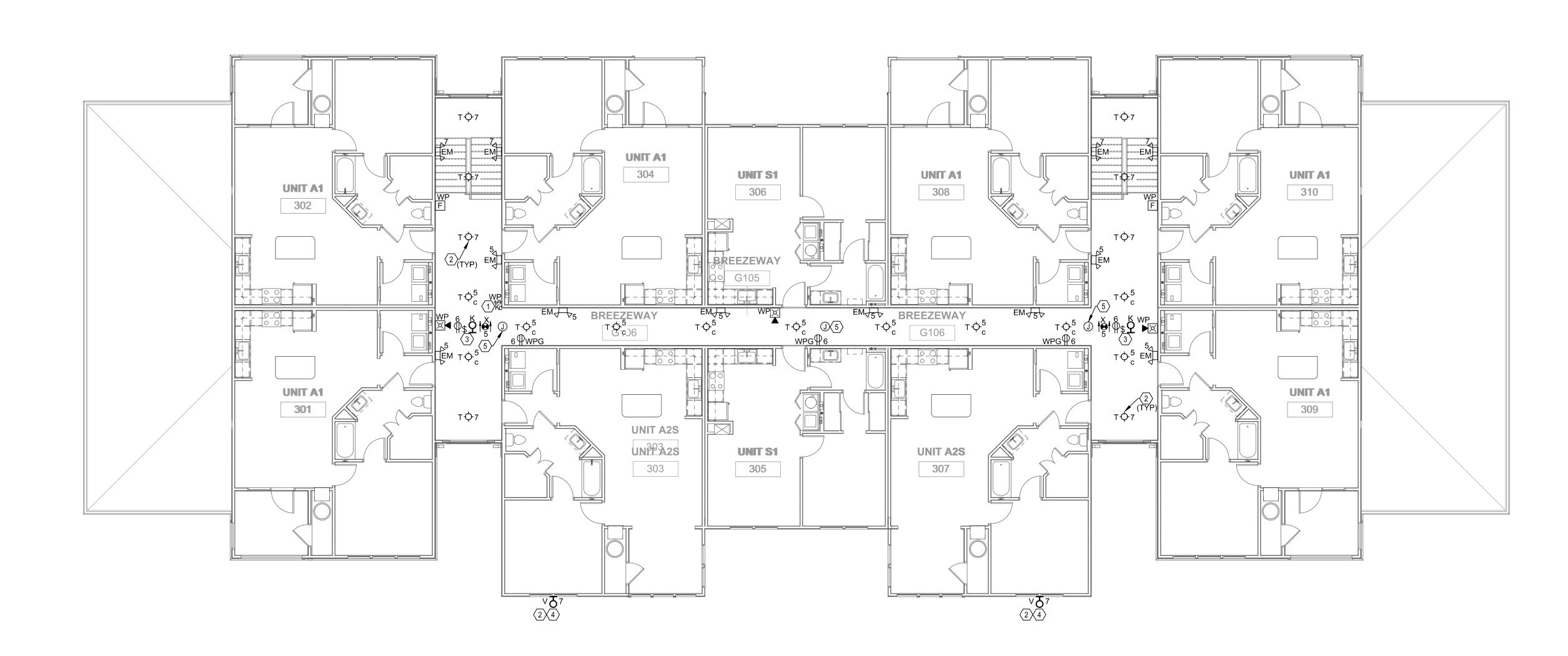
1/8" = 1'-0"

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- (3) LIGHT FIXTURE SWITCH AND RECEPTACLE IN ATTIC ADJACENT TO ACCESS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- (4) REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 5 PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.

GENERAL NOTES

- 1. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO
- HOUSE PANEL 'H2' (UNLESS NOTED OTHERWISE). 2. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL
- 3. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.

SWITCHES AND CONTROLS.



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ISSUE HISTORY

REVISION HISTORY

Description

11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 02/28/20 PERMIT REVIEW SET

Date

Date

No.

BUILDING TYPE 2 - 3RD LEVEL - ELECTRICAL

1/8" = 1'-0"

BUILDING TYPE 2 - 3RD LEVEL - ELECTRICAL

THE ROBERT

FT. MYERS, FL

E2.07

SUMP PUMP(10) WPG WPG WPG N 29 N 29 N 29 N 29 N 29 N 29

2 ENLARGED PLAN - ELEVATOR PIT

REFERENCE NOTES

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 2 REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- (3) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT DESIGNATIONS AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- 6 MOUNT DISCONNECTS 12" A.F.G. TO BOTTOM ON 1-1/2"x1-1/2" NON-METALLIC CHANNEL.
- 7 REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
- 8 COORDINATE EXACT LOCATION OF ALL ELECTRICAL IN ELEVATOR PIT WITH ELEVATOR INSTALLER AND INSTALL AS REQUIRED.
- 9 MOUNT HEAT DETECTOR WITHIN 24" OF FIRE PROTECTION SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHUT DOWN WIRING DETAIL ON DRAWING E6.01.
- PROVIDE WPG DUPLEX OUTLET FOR PUMP CONTROL PANEL AND ASSOCIATED ALARM. COORDINATE LOCATION IN PIT WITH PLUMBING CONTRACTOR.
- PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING
 SPACE FOR THE BDA SYSTEM DAS ANTENNA,
 POWER DIVIDER OR COUPLER. REFER TO BDA
 SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR—
 CONDUIT/CABLE SIZES.
- PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

GENERAL NOTES

- VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 2. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO RESPECTIVE HOUSE PANEL AS NOTED ON PLANS
 - (UNLESS NOTED OTHERWISE).

 REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT
- 4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
- REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.
- 6. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.

CONNECTION REQUIREMENTS.

7. ELECTRICAL CONTRACTOR TO COORDINATE REQUIRED SPACE ON BUILDING EXTERIOR WALL FOR INSTALLATION OF APPROVED METER CENTER/HOUSE PANEL(S) WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.

PERMIT REVIEW STAMP

ISSUE HISTORY

D]	No.	Date	Description
	1	11/22/19	SCHEMATIC DESIGN
	2	12/06/19	DESIGN DEVELOPMENT
	3	02/28/20	PERMIT REVIEW SET
		REVI	SION HISTORY
	No.	Date	Description

REVISION HISTORY

No. Date Description

1 05/06/20 PERMIT COMMENT RESPONSES



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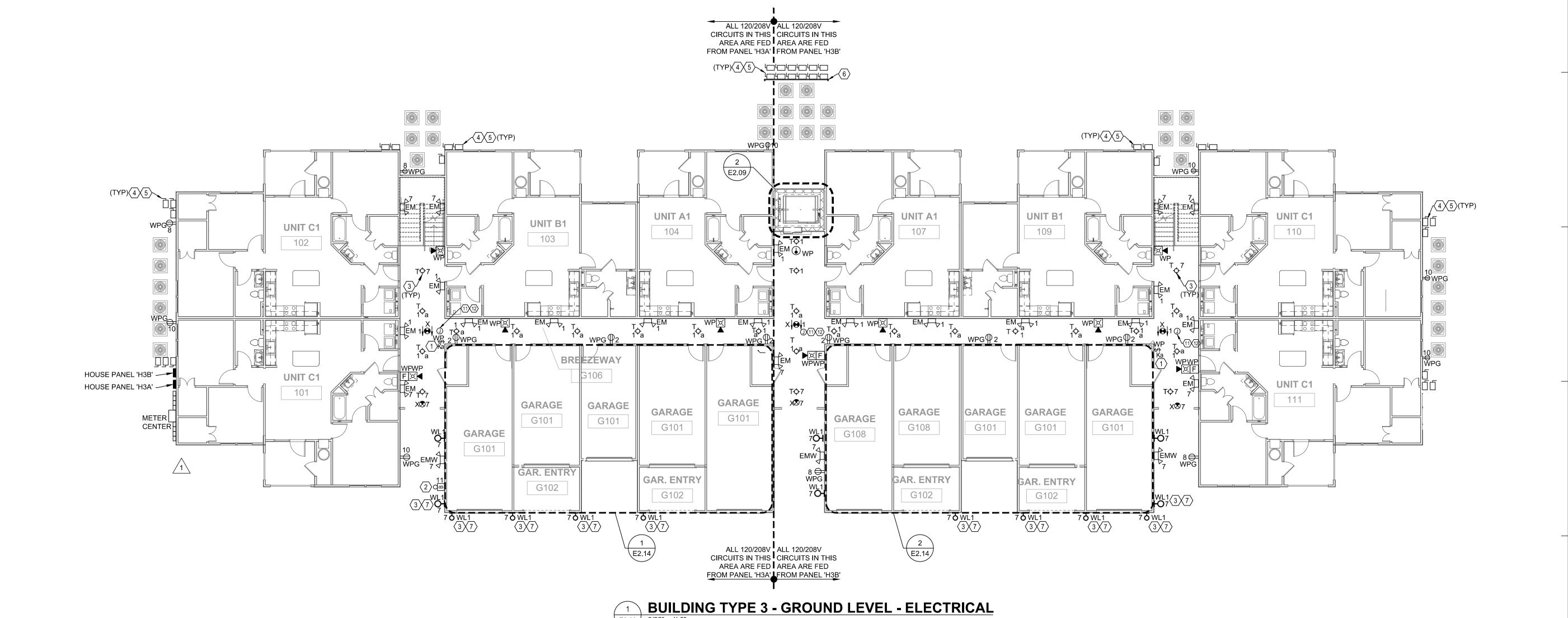
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BUILDING TYPE 3 - GROUND LEVEL - ELECTRICAL

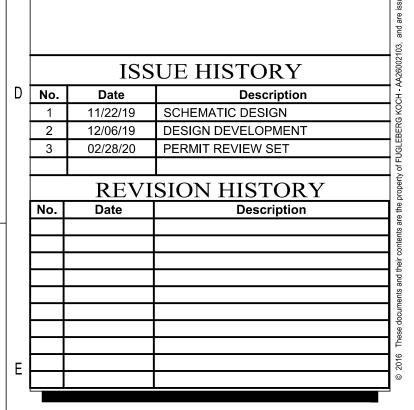
E2.09



- 1) PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (2) CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- $\langle 3 \rangle$ REFER TO BUILDING ELEVATIONS ON
- ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 4 PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- 5 PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

GENERAL NOTES

- . VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 2. ALL 120/208V CIRCUITS SHALL BE CONNECTED TO RESPECTIVE HOUSE PANEL AS NOTED ON PLANS (UNLESS NOTED OTHERWISE).
 - REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
 - 4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
 - REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.



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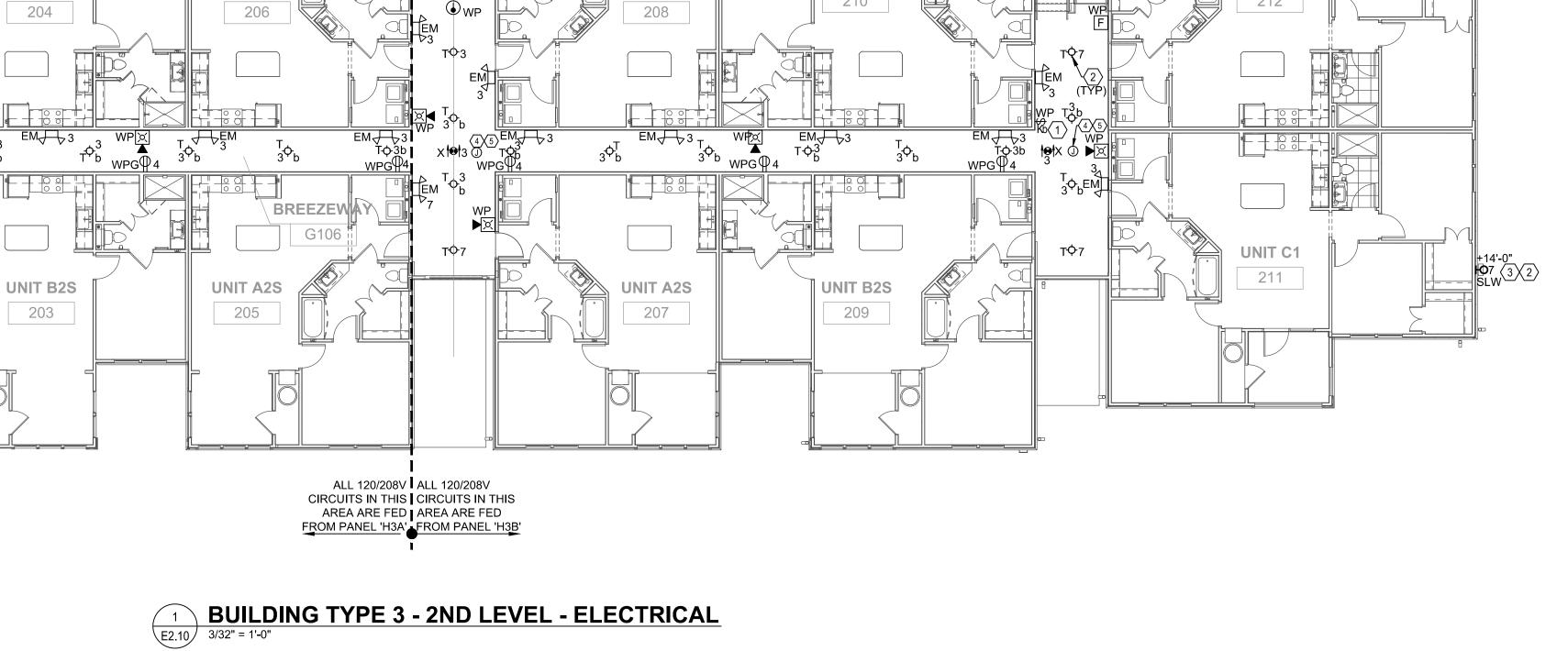
FT. MYERS, FL

BUILDING TYPE 3 - 2ND LEVEL - ELECTRICAL

09/10/2019

PLOTTED: 6/4/2020 11:37:13 AM

E2.10



UNIT B1

210

UNIT A1

UNIT C1

212

ALL 120/208V
CIRCUITS IN THIS
CIRCUITS IN THIS
AREA ARE FED
FROM PANEL 'H3B'

UNIT A1

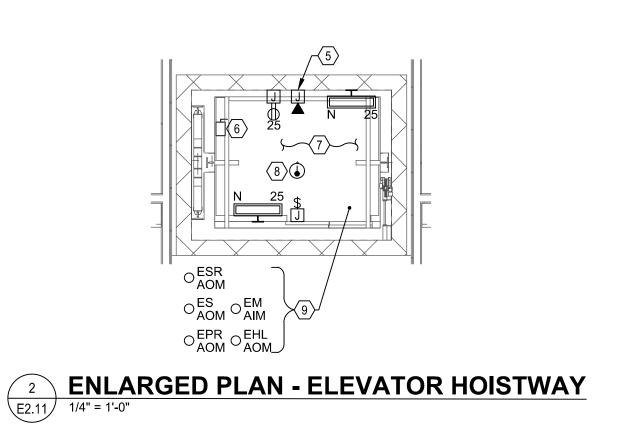
UNIT C1

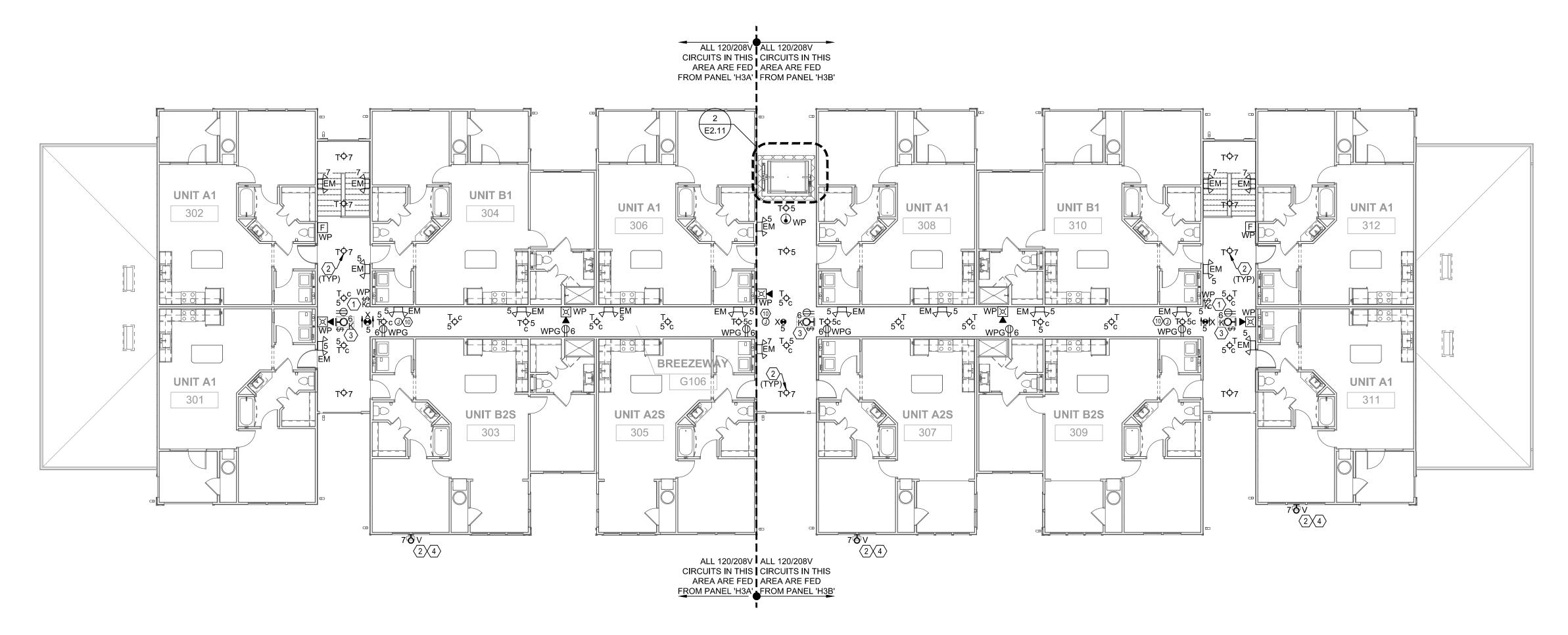
201

UNIT B1

204

203





BUILDING TYPE 3 - 3RD LEVEL - ELECTRICAL

3/32" = 1'-0"

REFERENCE NOTES

- PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 2 CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- 23 LIGHT FIXTURE SWITCH AND RECEPTACLE IN ATTIC ADJACENT TO ACCESS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 5 PROVIDE TELEPHONE LINE TO ELEVATOR EQUIPMENT.
- PROVIDE 3P, 60A, HD, NEMA 1, 250V, LOCKABLE NF DISCONNECT SWITCH WITH NO/NC AUXILIARY CONTACTS (FED FROM MAIN ELEVATOR DISCONNECT SWITCH IN 1ST FLOOR CLOSET ADJACENT TO GARAGES SEE DRAWING E2.14). CONNECT LOAD SIDE TO ELEVATOR EQUIPMENT IN HOISTWAY.
- (7) COORDINATE ALL WORK IN HOISTWAY WITH ELEVATOR INSTALLER AND LOCATE ALL LIGHTS, RECEPTACLES, DISC. SWITCHES, ETC. AS REQUIRED.
- 8 MOUNT HEAT DETECTOR WITHIN 24" OF FIRE PROT. SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN.
- 9 PROVIDE FIRE ALARM MONITORING OF ELEVATOR SHUNT TRIP CONTROL CIRCUIT AND CONTROL FOR PRIMARY ELEVATOR RECALL, SECONDARY ELEVATOR RECALL, ELEVATOR POWER SHUNT TRIP AND FIREFIGHTERS HAT
- PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING
 SPACE FOR THE BDA SYSTEM DAS ANTENNA,
 POWER DIVIDER OR COUPLER. REFER TO BDA
 SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR
 CONDUIT/CABLE SIZES.

GENERAL NOTES

- ALL 120/208V CIRCUITS SHALL BE CONNECTED TO RESPECTIVE HOUSE PANEL AS NOTED ON PLANS
- (UNLESS NOTED OTHERWISE).

 2. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL FOLLIEMENT CONNECTION
- SHEET E4.03 FOR ALL EQUIPMENT CONNECTION REQUIREMENTS.

 CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS

TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL

4. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.

SWITCHES AND CONTROLS.

PERMIT REVIEW STAMP

ISSUE HISTORY

 No.
 Date
 Description

 1
 11/22/19
 SCHEMATIC DESIGN

 2
 12/06/19
 DESIGN DEVELOPMENT

 3
 02/28/20
 PERMIT REVIEW SET

 REVISION HISTORY

REVISION HISTORY

No. Date Description



2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595 www. fuglebergkoch.com BR569



Orlando, Florida 32817
(407) 380-0400

CERT. OF AUTH. NO. 6106

□GARY A. WILKERSON, P.E. 43167
□KYLE J. CARTIER, P.E. 53269
□JEFF A. KIRKMAN, P.E. 65629
■ADAM S. LEVINE, P.E. 77010

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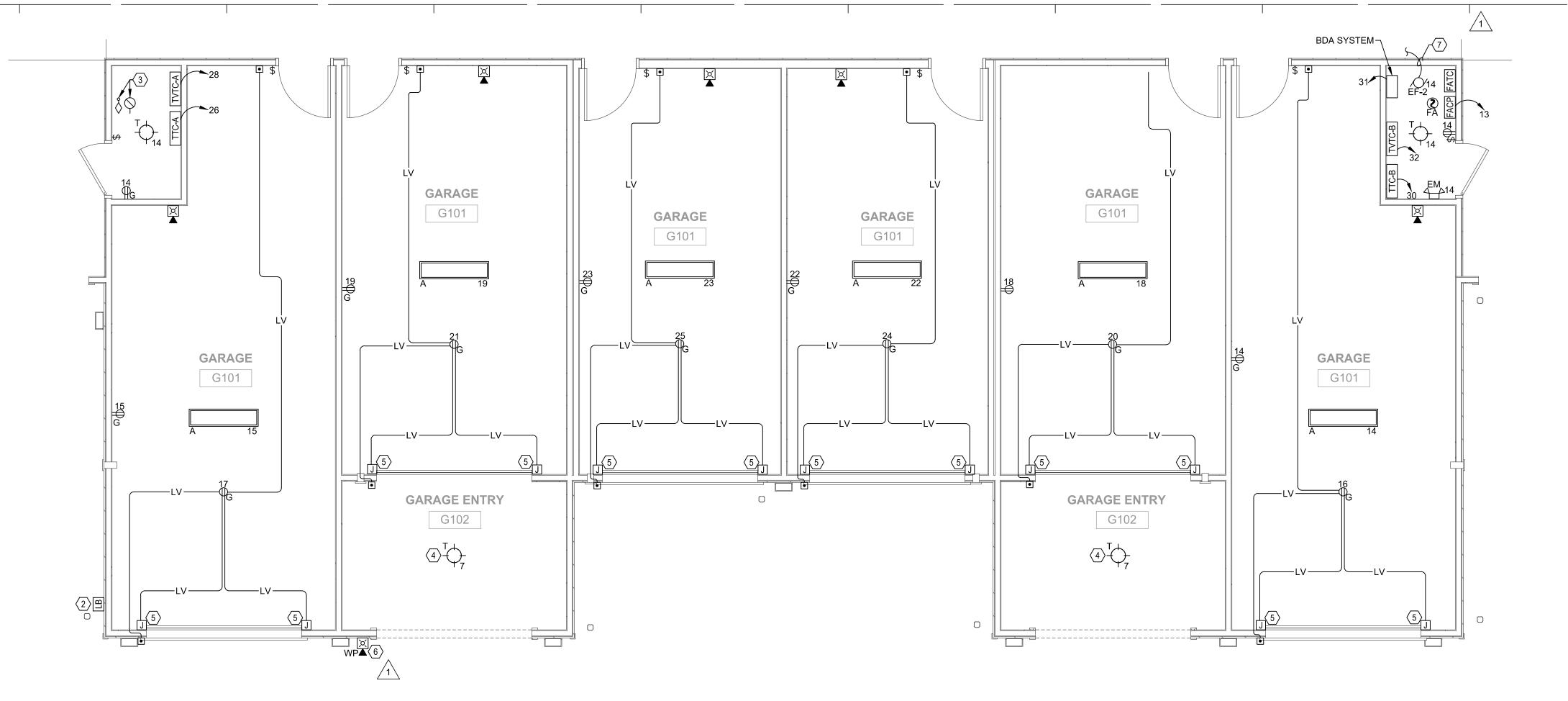
THE ROBERT

Approval: ASL Date: 09/10/2019

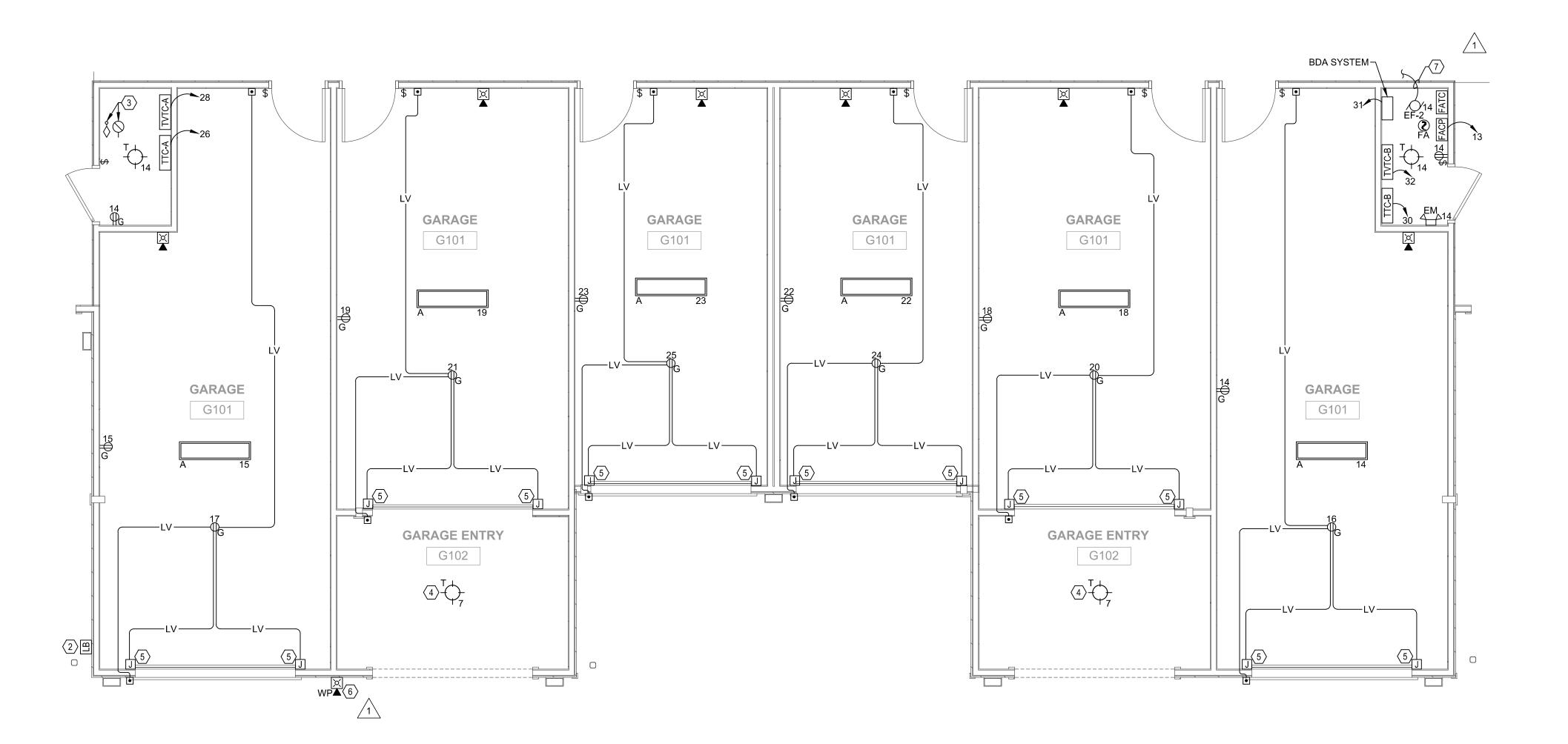
FT. MYERS, FL

BUILDING TYPE 3 - 3RD LEVEL - ELECTRICAL

E2.11



BUILDING TYPE 2 - GARAGE - ELECTRICAL 1/4" = 1'-0"



BUILDING TYPE 1 - GARAGE - ELECTRICAL

1/4" = 1'-0"

REFERENCE NOTES

- REFER TO TELEPHONE AND CATV RISER DIAGRAMS.
- 2 PROVIDE KNOX BOX AND CONNECT TO FIRE ALARM SYSTEM AS REQUIRED. EXACT MOUNTING HEIGHT TO BE DETERMINED BY THE BUILDING AHJ AND FIRE DEPARTMENT.
- PROVIDE ADDRESSABLE MONITORING MODULE (FLOW SWITCH, TAMPER SWITCH AND BACK FLOW PREVENTER TAMPER SWITCHES ON SITE). PROVIDE SURGE SUPPRESSION TO SIGNALING LINE CIRCUIT, FED FROM FIRE ALARM CONTROL PANEL. PROVIDE SURGE SUPPRESSION TO CIRCUITS COMING FROM FLOW SWITCHES AND TAMPER SWITCH. ALL CONDUIT CONNECTIONS TO FIRE PROTECTION SWITCHES SHALL BE WITH U.L. LISTED LIQUID TIGHT FLEXIBLE CONDUIT.
- (4) CONNECT CIRCUIT #7 VIA PHOTOCELL CONTROLLED UNIT.
- 5 J-BOX FOR LOW VOLTAGE CONNECTION TO GARAGE DOOR OPENER SAFETY PHOTO-EYE AT BOTTOM OF GARAGE DOOR JAMB.
- 6 COORDINATE LOCATION WITH LOCAL FIRE MARSHAL AND AHJ.
- (7) CONNECT VIA LINE VOLTAGE THERMOSTAT FURNISHED BY MECHANICAL CONTRACTOR; INSTALLED BY ELECTRICAL CONTRACTOR.

GENERAL NOTES

- 1. REFER TO SYMBOL LEGEND ON DRAWING E0.01
- 2. REFER TO GENERAL NOTES ON DRAWING E0.02.
- 3. REFER TO SPECIFICATIONS.
- 4. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH RESPECTIVE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 5. ALL 120/240V. CIRCUITS SHALL BE CONNECTED TO RESPECTIVE BUILDING HOUSE PANEL (UNLESS NOTED OTHERWISE).
- REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT
- CONNECTION REQUIREMENTS.

 CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS
 TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL
- SWITCHES AND CONTROLS.

 8. ALL WIRING SHALL BE #10 THWN CU. MINIMUM.

PERMIT REVIEW STAMP

ISSUE HISTORY

No.DateDescription111/22/19SCHEMATIC DESIGN212/06/19DESIGN DEVELOPMENT302/28/20PERMIT REVIEW SET

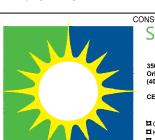
REVISION HISTORY

No. Date Description

1 05/06/20 PERMIT COMMENT RESPONSES



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3501 Quadrangle Boulevard, Suite 100 Orlando, Florida 32817 (407) 380-0400

CERT. OF AUTH. NO. 6106

GARY A. WILKERSON, P.E. 43167

HYLE J. CARTIER, P.E. 53269

JLJEFF A. KIRKMAN, P.E. 65629

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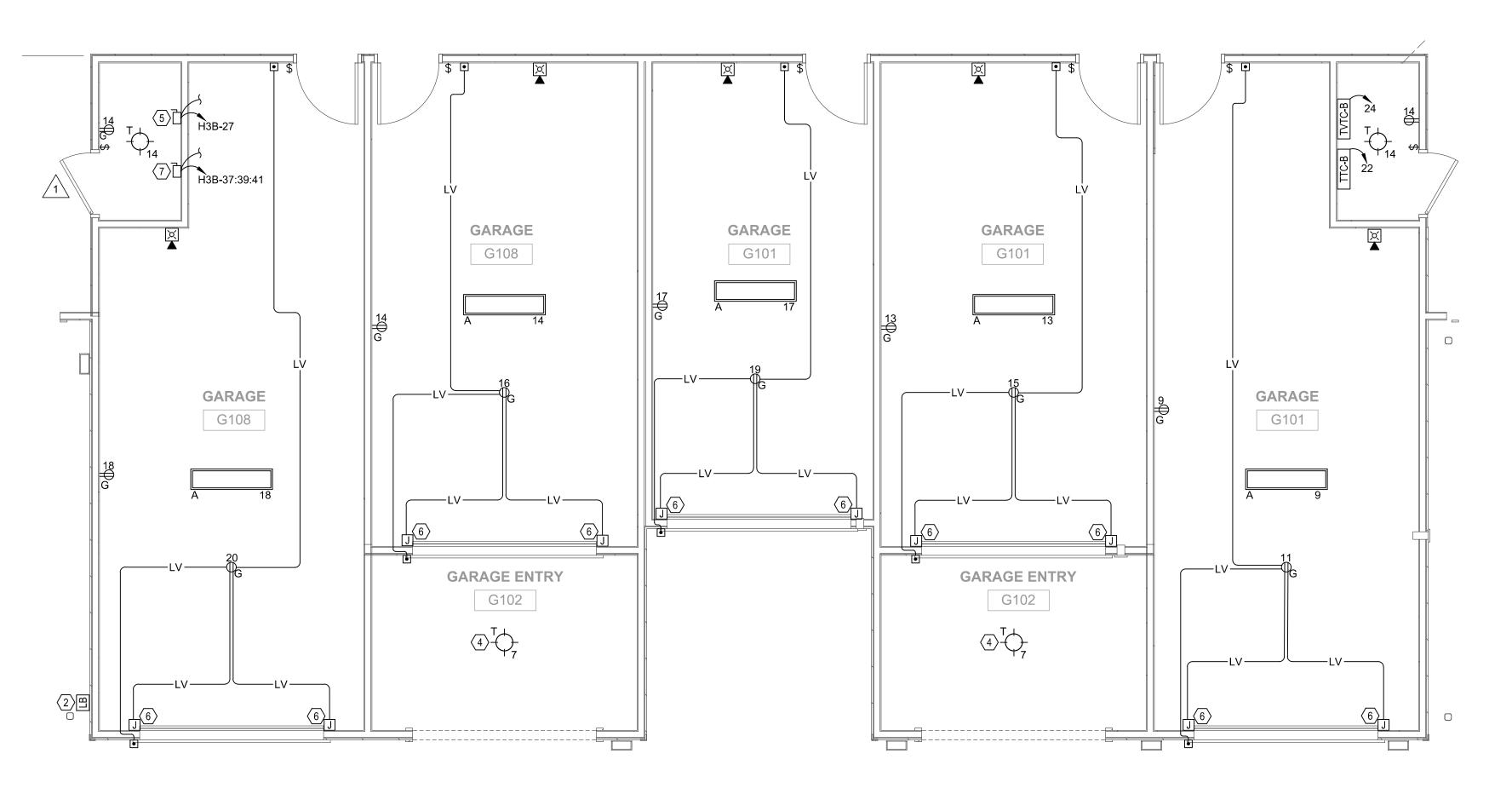
THE ROBERT

Approval: ASL
Date: 09/10/2019

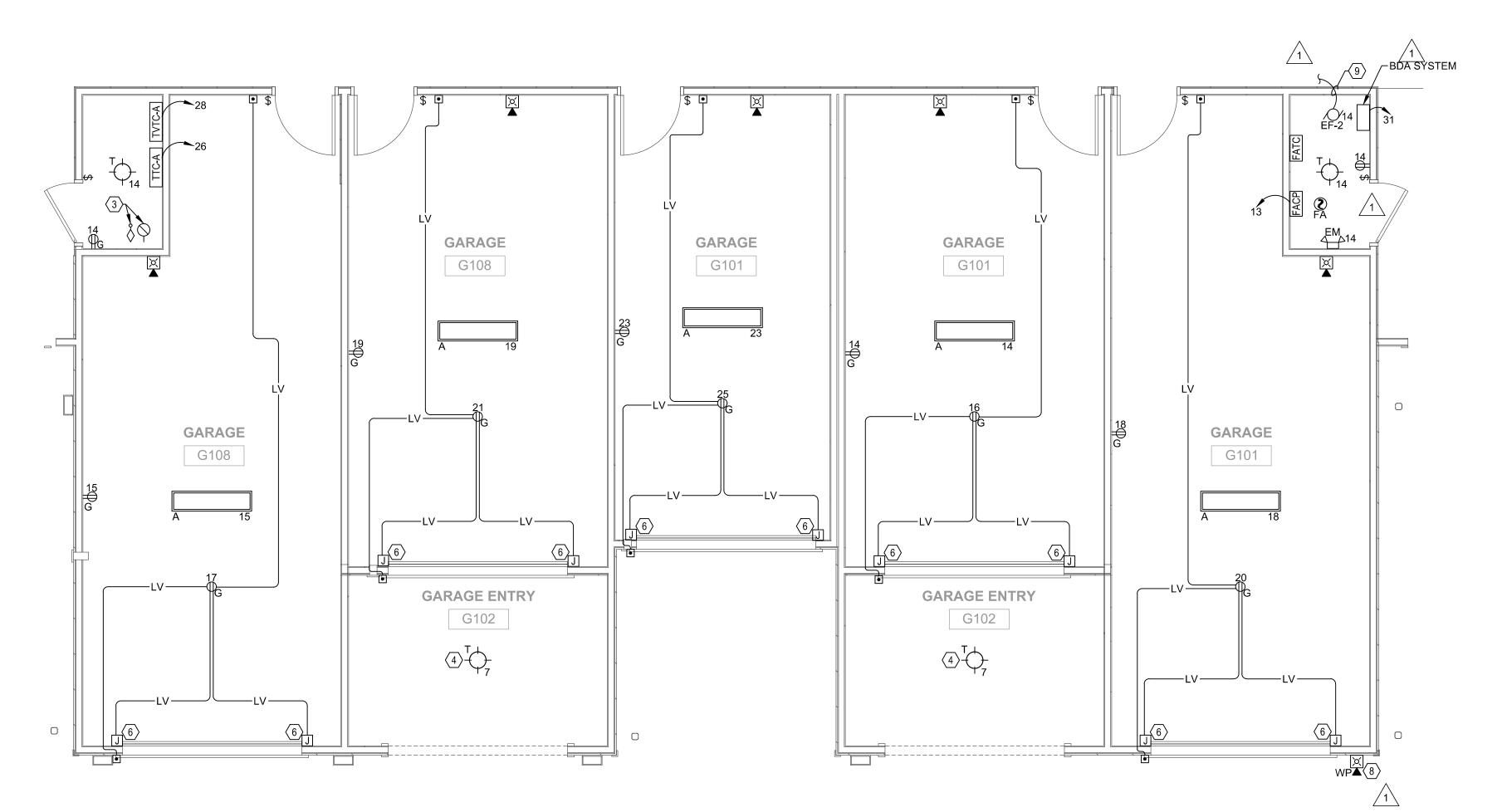
FT. MYERS, FL

ENLARGED GARAGE PLANS -ELECTRICAL

E2.13



BUILDING TYPE 3 - GARAGE - ELECTRICAL



BUILDING TYPE 3 - GARAGE - ELECTRICAL

1/4" = 1'-0"

REFERENCE NOTES

- REFER TO TELEPHONE AND CATV RISER DIAGRAMS.
- PROVIDE KNOX BOX AND CONNECT TO FIRE ALARM SYSTEM AS REQUIRED. EXACT MOUNTING HEIGHT TO BE DETERMINED BY THE BUILDING AHJ AND FIRE DEPARTMENT.
- PROVIDE ADDRESSABLE MONITORING MODULE (FLOW SWITCH, TAMPER SWITCH AND BACK FLOW PREVENTER TAMPER SWITCHES ON SITE). PROVIDE SURGE SUPPRESSION TO SIGNALING LINE CIRCUIT, FED FROM FIRE ALARM CONTROL PANEL. PROVIDE SURGE SUPPRESSION TO CIRCUITS COMING FROM FLOW SWITCHES AND TAMPER SWITCH. ALL CONDUIT CONNECTIONS TO FIRE PROTECTION SWITCHES SHALL BE WITH U.L. LISTED LIQUID TIGHT FLEXIBLE CONDUIT.
- (4) CONNECT CIRCUIT #7 VIA PHOTOCELL CONTROLLED UNIT.
- PROVIDE 30A, 120V LOCKABLE DISCONNECT SWITCH WITH REJECTION CLIPS AND 20A RK5 FUSE. LABEL "ELEVATOR CAB LIGHTS". CONNECT TO SECONDARY NON-FUSED DISCONNECT SWITCH IN HOISTWAY AT LEVEL 3: (2) #12 AND #12 GND. IN 1/2" C.
- 6 J-BOX FOR LOW VOLTAGE CONNECTION TO GARAGE DOOR OPENER SAFETY PHOTO-EYE AT BOTTOM OF GARAGE DOOR JAMB.
- PROVIDE LOCKABLE DISCONNECT SWITCH WITH 20A AUXILIARY CONTACTS AND TYPE DFJ FUSES AS REQUIRED BY ELEVATOR INSTALLER. CONNECT TO ELEVATOR MOTOR SECONDARY, NON-FUSED DISCONNECT SWITCH IN HOISTWAY AT LEVEL 3.
- (8) COORDINATE LOCATION WITH LOCAL FIRE MARSHAL AND AHJ.
- 9 CONNECT VIA LINE VOLTAGE THERMOSTAT FURNISHED BY MECHANICAL CONTRACTOR; INSTALLED BY ELECTRICAL CONTRACTOR.

- GENERAL NOTES
- 1. REFER TO SYMBOL LEGEND ON DRAWING E0.01
- 2. REFER TO GENERAL NOTES ON DRAWING E0.02.
- 3. REFER TO SPECIFICATIONS.
- 4. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH RESPECTIVE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 5. ALL 120/240V. CIRCUITS SHALL BE CONNECTED TO RESPECTIVE BUILDING HOUSE PANEL (UNLESS NOTED OTHERWISE).
- 6. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
- CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL
- 8. ALL WIRING SHALL BE #10 THWN CU. MINIMUM.

SWITCHES AND CONTROLS.

PERMIT REVIEW STAMP

ISSUE HISTORY

No.DateDescription111/22/19SCHEMATIC DESIGN212/06/19DESIGN DEVELOPMENT302/28/20PERMIT REVIEW SET

3 02/28/20 PERMIT REVIEW SET

REVISION HISTORY

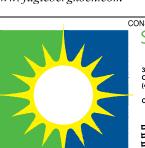
REVISION HISTORY

No. Date Description

1 05/06/20 PERMIT COMMENT RESPONSES



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expect a difference

3501 Quadrangle Boulevard, Suite 100
Orlando, Florida 32817
(407) 380-0400

CERT. OF AUTH. NO. 6106

GARY A. WILKERSON, P.E. 43167
KYLE J. CARTIER, P.E. 53269

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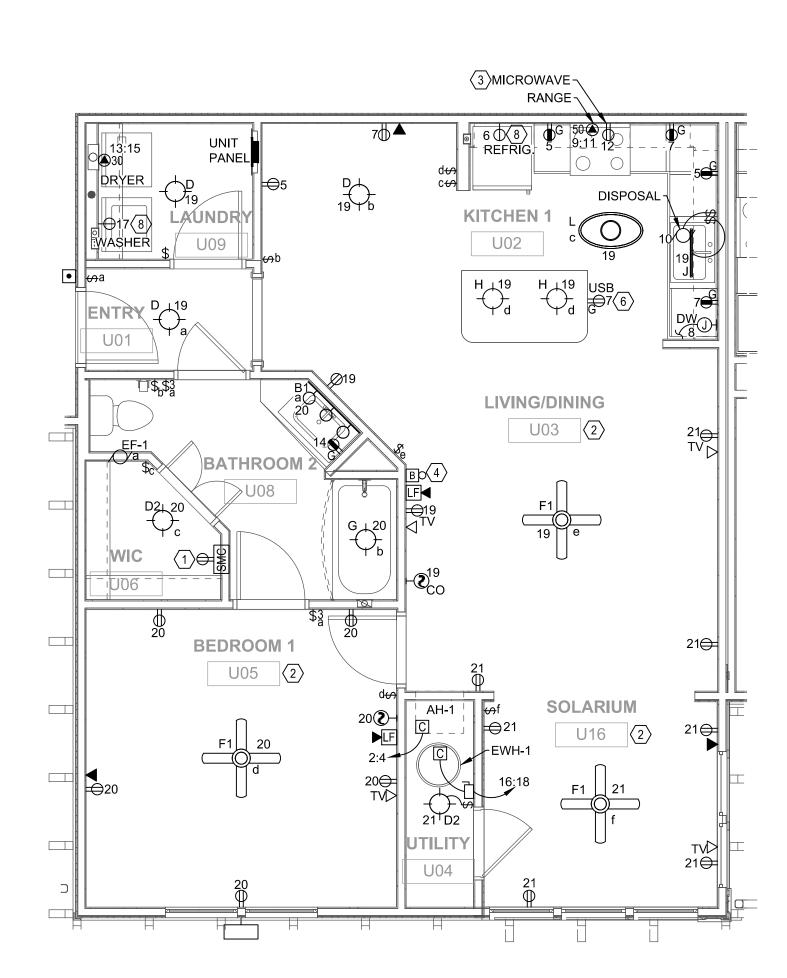
FT. MYERS, FL

ENLARGED GARAGE PLANS -ELECTRICAL

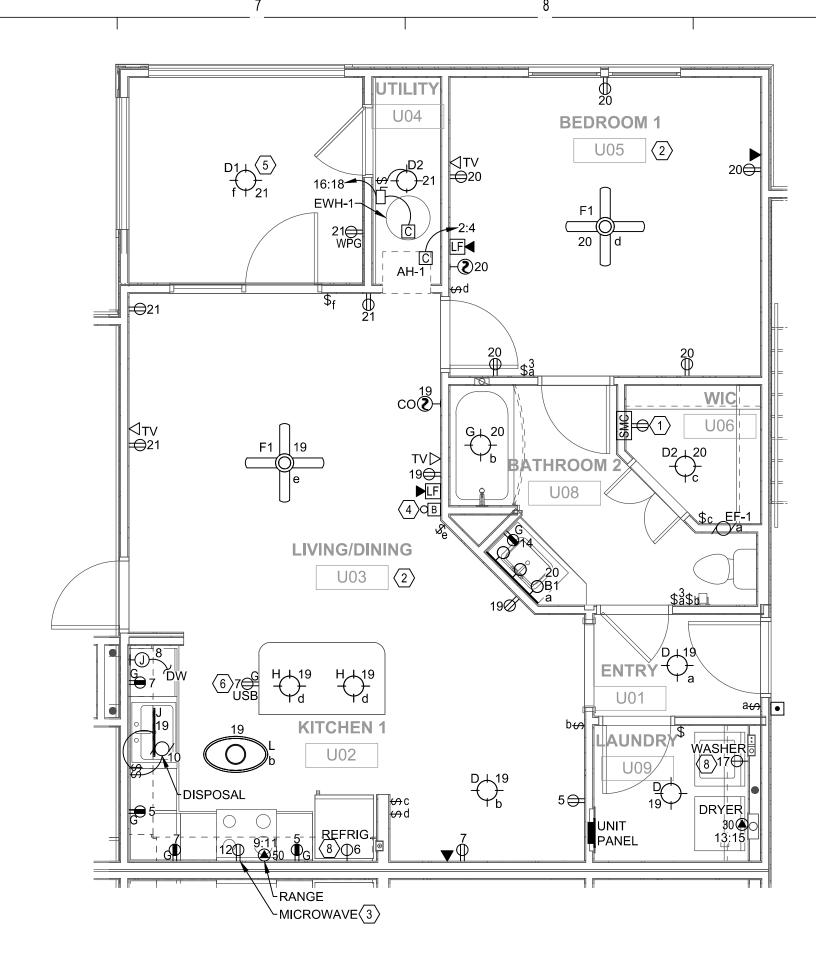
E2.14

UNIT B1 FLOOR PLAN - ELECTRICAL

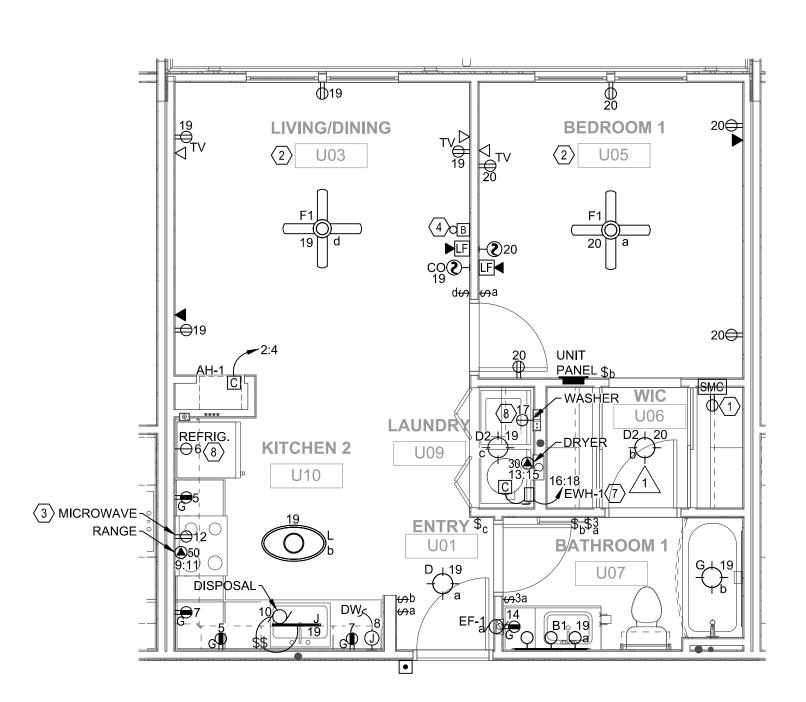
1/4" = 1'-0"



3 UNIT A2S FLOOR PLAN - ELECTRICAL
E3.01 1/4" = 1'-0"



2 UNIT A1 FLOOR PLAN - ELECTRICAL



1 UNIT S1 FLOOR PLAN - ELECTRICAL
E3.01 1/4" = 1'-0"

REFERENCE NOTES

- 1 RECEPTACLE INSTALLED INSIDE SYSTEM PANEL.
- PROVIDE ARC FAULT CURRENT PROTECTION FOR ALL BRANCH CIRCUITS SUPPLYING FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, SUNROOMS, BEDROOMS, LAUNDRY ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS, IN ACCORDANCE WITH NEC 210.12(A). NOTE THAT ARC FAULT CIRCUIT PROTECTION REQUIRES A DEDICATED NEUTRAL FROM THE CIRCUIT BREAKER. MULTI-WIRE BRANCH CIRCUITS ARE THEREFORE NOT PERMITTED FOR ARC FAULT CIRCUITS.
- (3) LOCATE OUTLET IN MILLWORK FOR MICROWAVE/EXHAUST FAN. REFER TO ARCHITECTURAL DRAWING FOR ADDITIONAL INFORMATION.
- PROVIDE STEP DOWN TRANSFORMER/CHIME/DOORBELL AND CONNECT COMPLETE.
- 5 FLUSH MOUNTED JUNCTION BOX USED FOR LIGHT SHALL BE U.L. LISTED FOR OWNER'S FUTURE USE AS A SOLE SUPPORT OF A CEILING SUSPENDED (PADDLE) FAN. PROVIDE JUNCTION BOX IN ACCORDANCE WITH NEC 314.27 RATED FOR 35lbs AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE HOT WIRE CAPPED IN JUNCTION BOX FOR PULL CHAIN CONTROL IN FAN.
- 6 LOCATE TOP OF OUTLET/SWITCH COVER PLATE 1" BELOW BOTTOM OF MILLWORK DRAWERS.
- $\langle 7 \rangle$ MOUNTED ABOVE DRYER.
- 8 PROVIDE 20A/120V SINGLE RECEPTACLE.

- GENERAL NOTES
- VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH RESPECTIVE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL CIRCUITS ORIGINATE FROM THEIR
 RESPECTIVE UNIT PANEL LOCATED WITHIN THE

CONNECTION REQUIREMENTS.

- UNIT, UNLESS NOTED OTHERWISE.

 3. REFER TO EQUIPMENT FEEDER SCHEDULE ON
- 4. ALL OUTLETS SHALL BE SPACED IN ACCORDANCE
- WITH NEC ARTICLE 210.52.5. ALL OUTLETS SHALL BE TAMPER RESISTANT IN

SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT

- ACCORDANCE WITH NEC ARTICLE 406.12.
- 6. ADJUST ELECTRICAL INSTALLATION AS NECESSARY FOR "MIRRORED" UNITS.
- 7. REFER TO DRAWING E4.02 FOR UNIT PANEL SCHEDULES.
- 8. REFER TO BUILDING PLANS FOR CONDENSING UNIT LOCATIONS. REFER TO UNIT PANEL SCHEDULE AND EQUIPMENT FEEDER SCHEDULE FOR FEEDER, CIRCUIT BREAKER AMPERAGE AND DISCONNECT SWITCH REQUIREMENTS. TYPICAL FOR EACH UNIT.

PERMIT REVIEW STAMP

ISSUE HISTORY

 No.
 Date
 Description

 1
 11/22/19
 SCHEMATIC DESIGN

 2
 12/06/19
 DESIGN DEVELOPMENT

 3
 02/28/20
 PERMIT REVIEW SET

REVISION HISTORY

No. Date Description

1 05/06/20 PERMIT COMMENT RESPONSES

FUGLEBERG KOCH

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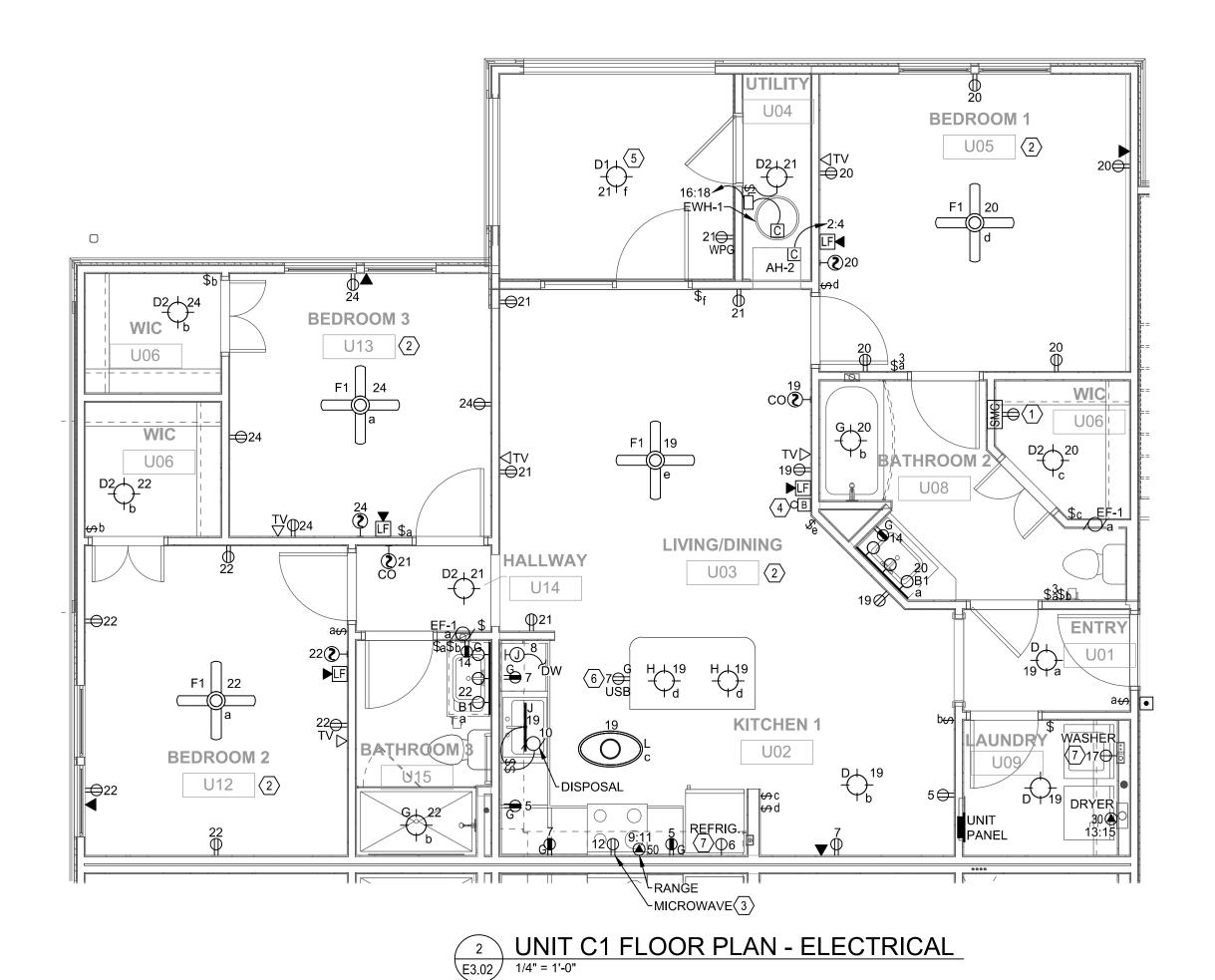
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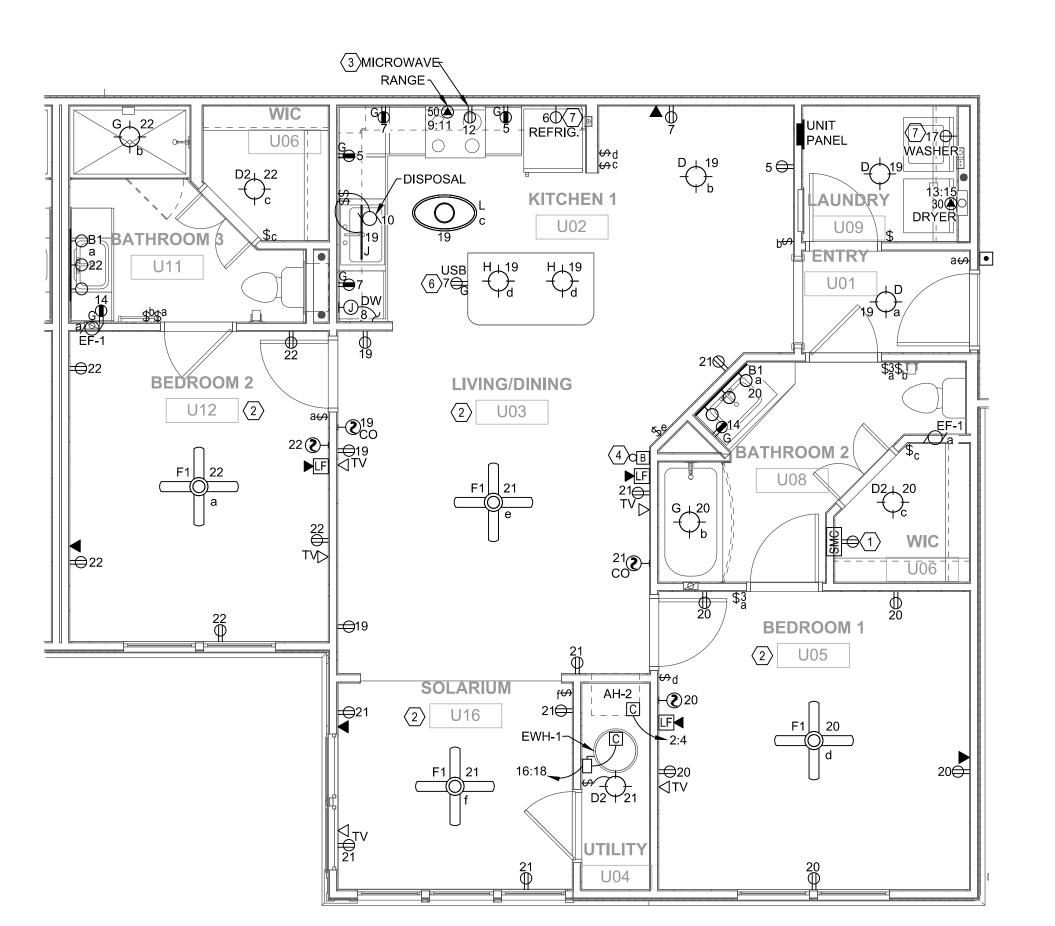
THE ROBERT

FT. MYERS, FL

UNIT PLANS - ELECTRICAL

E3.01





TRASH ENCLOSURE - ELECTRICAL

TRASH COMPACTOR MOTOR ____ METER

TE-1:3:5

UNIT B2S FLOOR PLAN - ELECTRICAL E3.02 1/4" = 1'-0"

REFERENCE NOTES

- 1 RECEPTACLE INSTALLED INSIDE SYSTEM PANEL.
- 2 PROVIDE ARC FAULT CURRENT PROTECTION FOR ALL BRANCH CIRCUITS SUPPLYING FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, SUNROOMS, BEDROOMS, LAUNDRY ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS, IN ACCORDANCE WITH NEC 210.12(A). NOTE THAT ARC FAULT CIRCUIT PROTECTION REQUIRES A DEDICATED NEUTRAL FROM THE CIRCUIT BREAKER. MULTI-WIRE BRANCH CIRCUITS ARE THEREFORE NOT PERMITTED FOR ARC FAULT CIRCUITS.
- (3) LOCATE OUTLET IN MILLWORK FOR MICROWAVE/EXHAUST FAN. REFER TO ARCHITECTURAL DRAWING FOR ADDITIONAL INFORMATION.
- 4 PROVIDE STEP DOWN TRANSFORMER/CHIME/ DOORBELL AND CONNECT COMPLETE.
- (5) FLUSH MOUNTED JUNCTION BOX USED FOR LIGHT SHALL BE U.L. LISTED FOR OWNER'S FUTURE USE AS A SOLE SUPPORT OF A CEILING SUSPENDED (PADDLE) FAN. PROVIDE JUNCTION BOX IN ACCORDANCE WITH NEC 314.27. RATED FOR 35lbs AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE HOT WIRE CAPPED IN JUNCTION BOX FOR PULL CHAIN CONTROL IN FAN.
- 6 LOCATE TOP OF OUTLET/SWITCH COVER PLATE 1" BELOW BOTTOM OF MILLWORK DRAWERS.
- 7 PROVIDE 20A/120V SINGLE RECEPTACLE.
- (8) PHOTOCELL MOUNTED ON FACE OF BUILDING. AIM NORTH.
- 1 9 CONNECT EXTERIOR LIGHTS VIA PHOTOCELL. MOUNT 9'-0" A.F.G TO CENTER.
- (10) PROVIDE "IN-USE" WEATHERPROOF COVER.
- (11) COORDINATE ALL WORK WITH OWNERS VENDOR, INCLUDING DISCONNECT SWITCH LOCATION, ELECTRICAL REQUIREMENTS, ETC.

- VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH RESPECTIVE MECHANICAL
- CONTRACTOR PRIOR TO ROUGH-IN. 2. ALL CIRCUITS ORIGINATE FROM THEIR
 - RESPECTIVE UNIT PANEL LOCATED WITHIN THE UNIT, UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT FEEDER SCHEDULE ON

SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT

- 4. ALL OUTLETS SHALL BE SPACED IN ACCORDANCE
- WITH NEC ARTICLE 210.52. 5. ALL OUTLETS SHALL BE TAMPER RESISTANT IN
- ACCORDANCE WITH NEC ARTICLE 406.12.
- 6. ADJUST ELECTRICAL INSTALLATION AS NECESSARY FOR "MIRRORED" UNITS.

FOR EACH UNIT.

CONNECTION REQUIREMENTS.

- REFER TO DRAWING E4.02 FOR UNIT PANEL SCHEDULES.
- 8. REFER TO BUILDING PLANS FOR CONDENSING UNIT LOCATIONS. REFER TO UNIT PANEL SCHEDULE AND EQUIPMENT FEEDER SCHEDULE FOR FEEDER, CIRCUIT BREAKER AMPERAGE AND DISCONNECT SWITCH REQUIREMENTS. TYPICAL
- 9. REFER TO EQUIPMENT FEEDER SCHEDULE ON DRAWING E4.04.

PERMIT REVIEW STAMP

ISSUE HISTORY

No. Date 11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 02/28/20 PERMIT REVIEW SET

REVISION HISTORY

Date Description 05/06/20 PERMIT COMMENT RESPONSES



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09/10/2019

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UNIT PLANS AND TRASH **ENCLOSURE - ELECTRICAL**

E3.02

PROJECT	: THE ROBER	RT APAR	TMENTS						
BUILDING	: BUILDING T	YPE 1 M	ETER CENT	ΓER			NUMBER	OF UNITS:	22
QUAN.	UNIT TYPE						TOTAL		
4	A1			@	36,158	=	144,632	VA	
14	B1			@	37,037	=	518,518	VA	
4	B2S			@	37,310	=	149,240	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
			DEMANU	NET COMPL		=	812,390	VA	
			DEMAN	D PER TABLE	220.84				
	812,390	VA X	0.36	DEMAN	D FACTOR	=	292,460	VA	
					OR	=	813	AMPS	
				HOUSE F	PANEL "H1"	=	23,840	VA	
					OR	=	66	AMPS	
			TOTAL SER	RVICE ENTRANC	E DEMAND	=	316,300	VA	
					OR	=	879	AMPS	

MULT	I-FAMILY	OPT	IONAL S	SERVICE C	ALCUL	AT	ON: NE	C 220.84	
PROJECT	: THE ROBE	RT APA	RTMENTS						
BUILDING	: BUILDING	TYPE 2	METER CEN	ITER			NUMBER	OF UNITS:	27
QUAN.	UNIT TYPE			COMPUTED LO	DAD		TOTAL		
5	S1			@	35,510	=	177,550) VA	
10	A1			@	36,158	=	361,580	VA	
4	A2S			@	36,431	=	145,724	VA	
8	C1			@	37,568	=	300,544	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=	0	VA	
				NET COMPL	JTED LOAD	=	985,398	3 VA	
			DEMAN	ND PER TABLE	220.84				
	985, 398	VA)	0.34	DEMAN	ID FACTOR	=	335,035	VA	
					OR	=	931	AMPS	
				HOUSE	Panel "H2"	=	22,760	VA	
					OR	=	63	AMPS	
			TOTAL SE	ERVICE ENTRANC	E DEMAND	=	357,795	VA	
					OR	=	994	AMPS	

JNIT TYPE	500 C M-100 C F F F F F F F F F F F F F F F F F F					
QUAN.	DESCRIPTION	CONNECTED			TOTAL	
1067	SQUARE FOOTAGE	@	3	=	3,201	
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400	VA
1	EWH (NAMEPLATE)	@	6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850	VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000	VA
2	EXHAUST FANS	@	108	=	216	VA
		SUB-TOTAL (OT	HER LOAD)	=	33,067	VA
1	AHU	@	270	=	270	VA
1	COND UNIT.	@	1,664	=	1,664	VA
0	HEAT PUMP	@		=	0	VA
1	HEAT STRIP	@	3,700	=	3,700	VA
		TOTAL CONNEC	CTED LOAD	=	38,701	VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000	
	REMAINDER OF OTHER LOAD	@	40%	=	9,227	
	* HVAC DEMAND			=	2,675	
	I	OTAL UNIT FEEDE	R DEMAND	=	21,902	VA
		MAND AMPS AT	208	=		AMPS
	NEUTRA	L DEMAND AMPS		=	87	AMPS
	* HVAC DEMAND EQUALS LARGES					
	AHU & COND. UNIT @ 100% OR		@100%			
	AHU @ 100% & HEAT STRIP @ 6	5%				
	AHU @ 100% & HT PUMP @ 1009	% & HT. STRIP @ 6	5%			

	IECT: THE ROBI								
BUILI	DING: BUILDING							OF UNITS:	
QUAN	I. UNIT TYPE			COMPUTED LO			TOTAL		
	0 A1			@	36,158	=	361,580		
	4 A2S			@	36,431	=	145,724		
)	6 B1			@	37,037	=	222,222		
	4 B2S			@	37,310	=	149,240		
)	B C1			@	37,568	=	300,544	VA	
				@		=	0	VA	
				@		=		VA	
				@		=	0	VA	
				@		=	0	VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				@		=		VA	
				NET COMP	JTED LOAD	=	1,179,310	VA	
			DEMAND	PER TABLE	220.84				
	1,179,310	VA X	0.31	DEMAN	ID FACTOR	=	365,586	VA	
					OR	=	1,016	AMPS	
			НО	USE PANELS 'I	H3A' & 'H3B'	=	58,980	VA	
					OR	=	163	AMPS	
			TOTAL 055	ACE ENTERNO	OF DEMAND	_	404 500	VA	
			TOTAL SERV	/ICE ENTRANC	EDEMAND	=	424,566	VA	
					OR	=	1,179	AMPS	

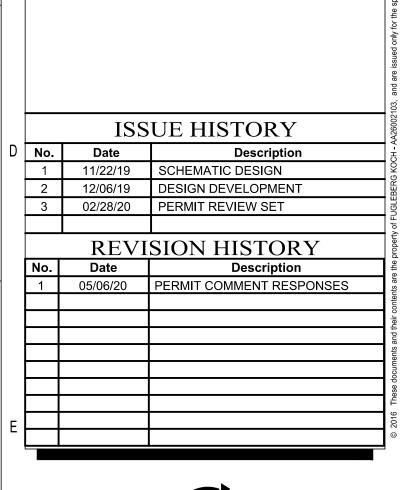
PROJEC ²	T: THE ROBERT APARTMENTS	i			
UNIT TYPE	E: S1				
QUAN.	DESCRIPTION	CONNECTED	LOAD		TOTAL
594	SQUARE FOOTAGE	@	3	=	1,782 VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000 VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500 VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400 VA
1	EWH (NAMEPLATE)	@	6,000	=	6,000 VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500 VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200 VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200 VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850 VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000 VA
1	EXHAUST FANS	@	108	=	108 VA
		SUB-TOTAL (OTI	HER LOAD)	=	31,540 VA
1	AHU	@	270	=	270 VA
1	COND UNIT.	@	1,456	=	1,456 VA
0	HEAT PUMP	@		=	0 VA
1	HEAT STRIP	@	3,700	=	3,700 VA
		TOTAL CONNEC	TED LOAD	=	36,966 VA
	4-140KVA OF OTHER LOAD		1009/	_	10 000 1/4
	1st 10KVA OF OTHER LOAD REMAINDER OF OTHER LOAD	@	100% 40%		10,000 VA
		@	4070	=	8,616 VA 2,675 VA
	* HVAC DEMAND	OTAL UNIT FEEDER	P DEMAND		21,291 VA
	10	TAL OWN TELDER	\ DLIVIAND	_	21,201 17
	FEEDER DEN	MAND AMPS AT	208	=	102 AMPS
	NEUTRAL	DEMAND AMPS		=	85 AMPS
	* HVAC DEMAND EQUALS LARGES' AHU & COND. UNIT @ 100% OR A AHU @ 100%& HEAT STRIP @ 65 AHU @ 100%& HT PUMP @ 100%	AHU & HEAT PUMP 5%	P @100%		

PROJECT	: THE ROBERT APARTMENTS					
NIT TYPE	E: B2S					
QUAN.	DESCRIPTION	CONNECTED	LOAD		TOTAL	
1158	SQUARE FOOTAGE	@	3	=	3,474	VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400	VA
1	EWH (NAMEPLATE)	@	6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850	VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000	VA
2	EXHAUST FANS	@	108	=	216	VA
		SUB-TOTAL (OTI-	HER LOAD)	=	33,340	VA
1	AHU	@	270	=	270	VA
1	COND UNIT.	@	1,664	=	1,664	VA
0	HEAT PUMP	@		=	0	VA
1	HEAT STRIP	@	3,700	=	3,700	VA
		TOTAL CONNEC	TED LOAD	=	38,974	VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000	VA
	REMAINDER OF OTHER LOAD	@	40%	=	9,336	VA
	* HVAC DEMAND			=	2,675	VA
	TO	OTAL UNIT FEEDER	R DEMAND	=	22,011	VA
	FEEDER DEI	MAND AMPS AT	208	=	106	AMPS
	NEUTRAL	DEMAND AMPS		=	88	AMPS
	* HVAC DEMAND EQUALS LARGES AHU & COND. UNIT @ 100% OR A AHU @ 100% & HEAT STRIP @ 65 AHU @ 100% & HT PUMP @ 1009	AHU & HEAT PUMP 5%				

PROJECT	: THE ROBERT APARTMENTS	3				
UNIT TYPE	E: A1					
QUAN.	DESCRIPTION	CONNECTED	LOAD		TOTAL	
810	SQUARE FOOTAGE	@	3	=	2,430	VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400	VA
1	EWH (NAMEPLATE)	@	6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850	VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000	VA
1	EXHAUST FANS	@	108	=	108	VA
		SUB-TOTAL (OT	HER LOAD)	=	32,188	VA
1	AHU	@	270	=	270	VA
1	COND UNIT.	@	1,456	=	1,456	VA
0	HEAT PUMP	@		=	0	VA
1	HEAT STRIP	@	3,700	=	3,700	VA
		TOTAL CONNEC	CTED LOAD	=	37,614	VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000	
	REMAINDER OF OTHER LOAD	@	40%	=	8,875	
	* HVAC DEMAND	OTAL LINET FEEDE	D DELAND	=	2,675	10.00
	ı	OTAL UNIT FEEDE	R DEMAND	=	21,550	VA
	FEEDER DE	EMAND AMPS AT	208	=	104	AMPS
	NEUTRA	L DEMAND AMPS		=	86	AMPS
	* HVAC DEMAND EQUALS LARGES	ST OF THE FOLLO\	WING			

PROJEC	Γ: THE ROBERT APARTMENTS	i				
NIT TYPE	E: A2S					
QUAN.	DESCRIPTION	CONNECTED	LOAD		TOTAL	
901	SQUARE FOOTAGE	@	3	=	2,703	VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400	VA
1	EWH (NAMEPLATE)	@	6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=:	1,200	VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850	VA
1	RANGE (NAMEPLATE)	@	10,000	=:	10,000	VA
1	EXHAUST FANS	@	108	=	108	VA
		SUB-TOTAL (OT	HER LOAD)	=	32,461	VA
1	AHU	@	270	=	270	VA
1	COND UNIT.	@	1,456	=	1,456	VA
0	HEAT PUMP	@		=	0	VA
1	HEAT STRIP	@	3,700	=	3,700	VA
		TOTAL CONNEC	TED LOAD	=	37,887	VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000	\ /Δ
	REMAINDER OF OTHER LOAD	@	40%	=	8,984	
	* HVAC DEMAND	•	1070	=	2,675	
		OTAL UNIT FEEDER	R DEMAND	=	21,659	
	FEEDER DE	MAND AMPS AT	208	=	104	AMPS
	NEUTRAL	DEMAND AMPS		=	86	AMPS
	* HVAC DEMAND EQUALS LARGES AHU & COND. UNIT @ 100% OR A AHU @ 100% & HEAT STRIP @ 65 AHU @ 100% & HT PUMP @ 1009	AHU & HEAT PUMP 5%	@100%			

PROJECT	THE ROBERT APARTMENTS	S				
UNIT TYPE	: C1					
QUAN.	DESCRIPTION	CONNECTED	LOAD		TOTAL	
1244	SQUARE FOOTAGE	@	3	=	3,732 VA	
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000 VA	i .
1	LAUNDRY CIRCUIT	@	1,500	=	1,500 VA	i.
1	DRYER (NAMEPLATE)	@	4,400	=	4,400 VA	į.
1	EWH (NAMEPLATE)	@	6,000	=	6,000 VA	i .
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500 VA	i
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200 VA	
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200 VA	i
1	DISPOSAL (NAMEPLATE)	@	850			
1	RANGE (NAMEPLATE)	@	10,000	=	10,000 VA	
2	EXHAUST FANS	@	108	=	216 VA	i
		SUB-TOTAL (OT	HER LOAD)	=	33,598 VA	ř.
1	AHU	@	270	=	270 VA	i.
1	COND UNIT.	@	1,664	=	1,664 VA	
0	HEAT PUMP	@		=	0 VA	
1	HEAT STRIP	@	3,700	=	3,700 VA	
		TOTAL CONNEC	TED LOAD	=	39,232 VA	
	1st 10KVA OF OTHER LOAD	@	100%	_	10,000 VA	
	REMAINDER OF OTHER LOAD	@	40%	_	9,439 VA	
,	HVAC DEMAND	w.	4070	=	2,675 VA	
		OTAL UNIT FEEDER	R DEMAND		22,114 VA	
	FEEDER DE	EMAND AMPS AT	208	=	106 AM	1PS
		L DEMAND AMPS		=	88 AM	
¥	HVAC DEMAND EQUALS LARGE: AHU & COND. UNIT @ 100% OR AHU @ 100% & HEAT STRIP @ 6 AHU @ 100% & HT PUMP @ 100	AHU & HEAT PUMP 5%	@100%			



PERMIT REVIEW STAMP





THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ADAM S. LEVINE, PE ON DATE INDICATED IN DIGITAL SIGNATURE USING A DIGITAL SIGNATURE.

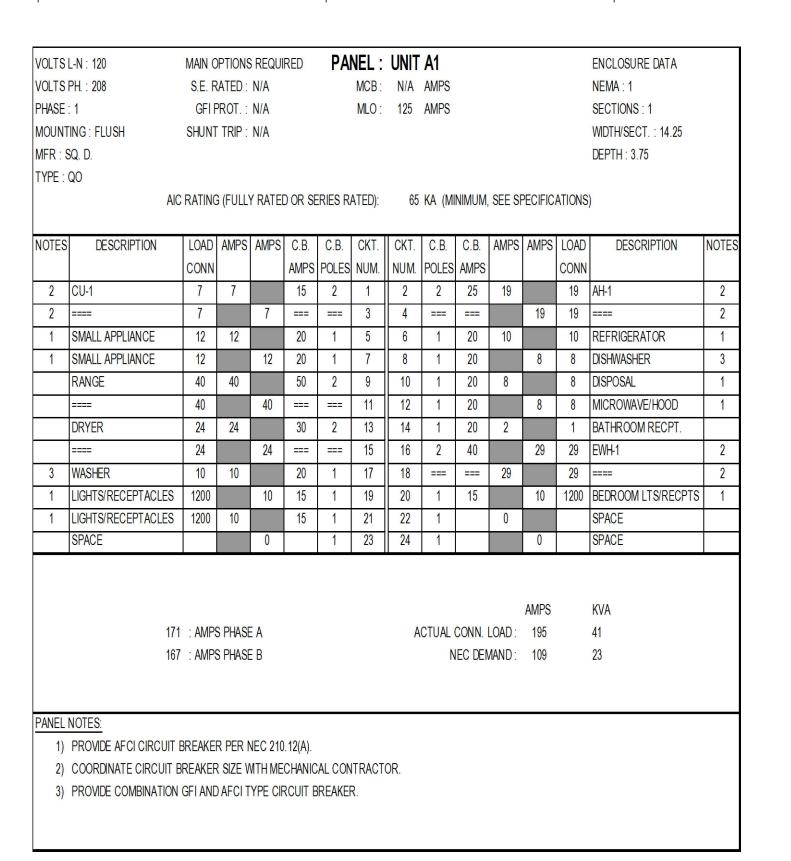
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	Drawn:	SW
THE DODEDT	Checked:	GP
THE ROBERT	Approval:	AS
	Date:	09/10/201
FT. MYERS, FL	Project #:	559

SCHEDULES - ELECTRICAL

E4.01

PLOTTED: 6/4/2020 11:41:51 AM



CONN AMPS POLES NUM. NUM. POLES AMPS CONN 2 CU-2 8 8 15 2 1 2 2 25 19 19 AH-2 2 2 === 8 8 === === 3 4 === === 19 19 AH-2 2 1 SMALL APPLIANCE 12 12 20 1 5 6 1 20 10 10 REFRIGERATOR 1 1 SMALL APPLIANCE 12 12 20 1 7 8 1 20 8 8 DISHWASHER 3 RANGE 40 40 50 2 9 10 1 20 8 8 DISPOSAL 1 === 40 40 === === 11 12 1 20 8 8 MICROWAVE/HOOD 1 DRYER 24																
HASE : 1	OLTS	L-N : 120	MAIN C	PTIONS	REQUI	RED	PA	NEL:	UNIT	B 1					ENCLOSURE DATA	
OUNTING: FLUSH SHUNT TRIP: N/A WIDTH/SECT.: 14.25 FR: SQ. D. AIC RATING (FULLY RATED OR SERIES RATED): 65 KA (MINIMUM, SEE SPECIFICATIONS) OTES DESCRIPTION LOAD AMPS AMPS C.B. C.B. CKT. CKT. C.B. C.B. AMPS LOAD DESCRIPTION NOT AMPS POLES NUM. NUM. POLES AMPS CONN 2 CU-2 8 8 8 15 2 1 2 2 2 25 19 19 19 AH-2 2 2 2 2 2 2 1 19 19 AH-2 2 2 2 2 2 2 2 1 19 19 AH-2 2 1 19 AMPS POLES NUM. NUM. POLES AMPS CONN 1 SMALL APPLIANCE 12 12 12 20 1 5 6 1 20 10 10 10 REFRIGERATOR 1 1 1 SMALL APPLIANCE 12 12 20 1 7 8 1 20 8 8 8 DISHWASHER 3 RANGE 40 40 40 20 10 10 10 REFRIGERATOR 1 1 1 DRYER 24 24 30 2 13 14 1 20 8 8 8 MICROWAVE/HOOD 1 DRYER 24 24 24 30 2 13 14 1 20 8 8 8 MICROWAVE/HOOD 1 DRYER 24 24 24 30 2 13 14 1 20 3 2 2 BATHROOM RECPT.	OLTS	PH. : 208	S.E. R	RATED:	N/A			MCB:	N/A	AMPS					NEMA: 1	
FR: SQ. D. YPE: QO AIC RATING (FULLY RATED OR SERIES RATED): 65 KA (MINIMUM, SEE SPECIFICATIONS) OTES DESCRIPTION LOAD AMPS AMPS C.B. C	HASE	:1	GFIF	PROT. :	N/A			MLO:	125	AMPS					SECTIONS: 1	
AIC RATING (FULLY RATED OR SERIES RATED): 65 KA (MINIMUM, SEE SPECIFICATIONS) OTES DESCRIPTION LOAD AMPS AMPS C.B. C.B. C.B. C.KT. C.KT. C.B. C.B. AMPS AMPS AMPS LOAD DESCRIPTION NOT	OUNT	ING: FLUSH	SHUNT	TRIP:	N/A										WDTH/SECT.: 14.25	
AIC RATING (FULLY RATED OR SERIES RATED): 65 KA (MINIMUM, SEE SPECIFICATIONS) OTES DESCRIPTION	IFR : S	SQ. D.													DEPTH: 3.75	
OTES DESCRIPTION LOAD AMPS AMPS C.B. C.B. C.KT. C.B. AMPS	YPE:	QO														
CONN AMPS POLES NUM. NUM. POLES AMPS CONN		AIC	RATING	G (FULL)	Y RATEI	OR SE	RIES R	ATED):	65	KA (MI	NIMUM,	SEE SF	PECIFICA	ATIONS		
CONN AMPS POLES NUM. NUM. POLES AMPS CONN																
2 CU-2 8 8 8 8 == == 3 4 == == 19 19 19 === 2 1 SMALL APPLIANCE 12 12 20 1 5 6 1 20 10 10 REFRIGERATOR 1 1 SMALL APPLIANCE 12 12 20 1 7 8 1 20 8 8 8 DISHWASHER 3 RANGE 40 40 50 2 9 10 1 20 8 8 8 DISHWASHER 3 RANGE 40 40 == == 11 12 1 2 1 20 8 8 8 DISHWASHER 3 DRYER 24 24 30 2 13 14 1 20 8 8 8 MICROWAVE/HOOD 1 DRYER 24 24 == == 15 16 2 40 29 29 EWH1 2 3 WASHER 10 10 20 1 17 18 == 29 29 EWH1 2 1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE AMPS PHASE A ACTUAL CONN. LOAD: 203 42	OTES	DESCRIPTION	LOAD	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
2 === 8 8 === === 3 4 === === 19 19 === 2 1 SMALL APPLIANCE 12 12 12 20 1 5 6 1 20 10 10 REFRIGERATOR 1 1 SMALL APPLIANCE 12 12 12 20 1 7 8 1 20 8 8 DISHWASHER 3 RANGE 40 40 50 2 9 10 1 20 8 8 DISHWASHER 3 DRYER 24 24 30 2 13 14 1 20 8 8 MICROWAVE/HOOD 1 DRYER 24 24 30 2 13 14 1 20 3 2 BATHROOM RECPT. ==== 24 24 24 === === 15 16 2 40 29 29 EWH1 2 3 WASHER 10 10 15			CONN			AMPS	POLES	NUM.	NUM.	POLES	AMPS			CONN		
1 SMALL APPLIANCE 12 12 20 1 5 6 1 20 10 10 REFRIGERATOR 1 1 SMALL APPLIANCE 12 12 12 20 1 7 8 1 20 8 8 B DISHWASHER 3 RANGE 40 40 50 2 9 10 1 20 8 8 B DISHWASHER 1 === 40 40 == === 11 12 1 20 8 8 B DISHWASHER 1 DRYER 24 24 24 30 2 13 14 1 20 3 2 BATHROOM RECPT. ==== 24 24 24 === == 15 16 2 40 29 29 EWH-1 2 3 WASHER 10 10 15 1 19 20 1 15 10 <td>2</td> <td>CU-2</td> <td>8</td> <td>8</td> <td></td> <td>15</td> <td>2</td> <td>1</td> <td>2</td> <td>2</td> <td>25</td> <td>19</td> <td></td> <td>19</td> <td>AH-2</td> <td>2</td>	2	CU-2	8	8		15	2	1	2	2	25	19		19	AH-2	2
1 SMALL APPLIANCE 12 12 20 1 7 8 1 20 8 8 8 DISHWASHER 3 RANGE 40 40 40 50 2 9 10 1 20 8 8 8 DISPOSAL 1 === 40 40 40 === === 11 12 1 20 8 8 8 MICROWAVE/HOOD 1 DRYER 24 24 30 2 13 14 1 20 3 2 BATHROOM RECPT. === 24 24 24 === === 15 16 2 40 29 29 EWI-1 2 3 WASHER 10 10 10 20 1 17 18 === 29 29 29 EWI-1 2 1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE 10 10 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE AMPS PHASE A ACTUAL CONN. LOAD: 203 42	2	====	8		8	===	===	3	4	===	===		19	19	====	2
RANGE 40 40 50 2 9 10 1 20 8 8 8 DISPOSAL 1 === 40 40 40 === === 11 12 1 20 8 8 8 MICROWAVE/HOOD 1 DRYER 24 24 30 2 13 14 1 20 3 2 BATHROOM RECPT. === 24 24 24 === === 15 16 2 40 29 29 EWH-1 2 3 WASHER 10 10 20 1 17 18 === 29 29 29 === 2 1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE AMPS PHASE A ACTUAL CONN. LOAD: 203 42	1	SMALL APPLIANCE	12	12		20	1	5	6	1	20	10		10	REFRIGERATOR	1
====	1	SMALL APPLIANCE	12		12	20	1	7	8	1	20		8	8	DISHWASHER	3
DRYER		RANGE	40	40		50	2	9	10	1	20	8		8	DISPOSAL	1
==== 24 24 === === 15 16 2 40 29 29 EWH1 2 3 WASHER 10 10 10 20 1 17 18 === 29 29 29 === 2 1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE AMPS KVA 183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42		====	40		40	===	===	11	12	1	20		8	8	MICROWAVE/HOOD	1
3 WASHER 10 10 20 1 17 18 === === 29 29 ==== 2 1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE 0 1 20 1 23 24 1 0 0 SPACE AMPS KVA 183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42		DRYER	24	24		30	2	13	14	1	20	3		2	BATHROOM RECPT.	
1 LIGHTS/RECEPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 1 1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE 0 1 23 24 1 0 SPACE AMPS KVA ACTUAL CONN. LOAD: 203 42		====	24		24	===	===	15	16	2	40		29	29	EWH-1	2
1 LIGHTS/RECEPTACLES 1200 10 15 1 21 22 1 15 10 1200 BEDROOM LTS/RECPTS 1 SPACE 0 1 23 24 1 0 SPACE AMPS KVA ACTUAL CONN. LOAD: 203 42	3	WASHER	10	10		20	1	17	18	===	===	29		29	====	2
SPACE 0 1 23 24 1 0 SPACE AMPS KVA 183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42	1	LIGHTS/RECEPTACLES	1200		10	15	1	19	20	1	15		10	1200	BEDROOM LTS/RECPTS	1
AMPS KVA 183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42	1	LIGHTS/RECEPTACLES	1200	10		15	1	21	22	1	15	10		1200	BEDROOM LTS/RECPTS	1
183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42		SPACE			0		1	23	24	1			0		SPACE	
183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42							•		•	•						,
183 : AMPS PHASE A ACTUAL CONN. LOAD: 203 42																
													AMPS		KVA	
168 : AMPS PHASE B NEC DEMAND: 112 23		183	: AMPS	S PHASE	ΞA				A	CTUAL	CONN.	LOAD:	203		42	
		168	: AMPS	S PHASE	ΞB					N	IEC DEN	/AND:	112		23	
ANEL NOTES:	ANFI	NOTES:														

1) PROVIDE AFCI CIRCUIT BREAKER PER NEC 210.12(A).

2) COORDINATE CIRCUIT BREAKER SIZE WITH MECHANICAL CONTRACTOR.

3) PROVIDE COMBINATION GFI AND AFCI TYPE CIRCUIT BREAKER.

3) PROVIDE COMBINATION GFI AND AFCI TYPE CIRCUIT BREAKER.

VOLTS	L-N : 120	MAIN C	PTIONS	S REQUI	RED	PA	NEL :	UNIT	C1					ENCLOSURE DATA	
VOLTS	PH. : 208	S.E. F	RATED:	N/A			MCB:	N/A	AMPS					NEMA: 1	
PHASE	: 1	GFI F	PROT.:	N/A			MLO:	125	AMPS					SECTIONS: 1	
MOUNT	ING : FLUSH	SHUNT	TRIP:	N/A										WIDTH/SECT.: 14.25	
MFR : S	SQ. D.													DEPTH: 3.75	
TYPE:	QO														
	AIC	RATING	G (FULL)	Y RATE	OR SE	ERIES R	ATED):	65	KA (M	NIMUM,	SEE SF	PECIFIC	ATIONS)	
NOTES	DESCRIPTION	LOAD	AMDO	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMDO	AMPS	LOAD	DESCRIPTION	NOTES
NOTES	DESCRIPTION		AIVIPS	AIVIPS								AIVIPS			NOTES
2	CU-2	CONN 8	8		AIVIPS 15	POLES 2		U	POLES 2	AIVIPS 25	19		CONN 19	AH-2	2
2	====	8	ð	0		100.00	3	2	1020		19	10	19	Art-2 ====	2
1	SMALL APPLIANCE	12	12	8	20	1	5	6	1	20	10	19		REFRIGERATOR	1
1	SMALL APPLIANCE	12	12	12	20	1	7	8	1	20	10	8	8	DISHWASHER	3
1	RANGE	40	40	12	50	2	9	10	1	20	8	0		DISPOSAL	1
	====	40	40	40	===	===	11	12	1	20	U.	8	8	MICROWAVE/HOOD	1
	DRYER	24	24	10	30	2	13	14	1	20	5	0	3	BATHROOM RECPT.	
	====	24		24	===	===	15	16	2	40	·	29	29	EWH-1	2
3	WASHER	10	10		20	1	17	18	===	===	29		29	====	2
1	LIGHTS/RECEPTACLES	1200		10	15	1	19	20	1	15		10	1200	BEDROOM LTS/RECPTS	1
1	LIGHTS/RECEPTACLES	1200	10		15	1	21	22	1	1 5	10		1200	BEDROOM LTS/RECPTS	1
	SPACE			0		1	23	24	1	15		10	1200	BEDROOM LTS/RECPTS	1
												AMPS		KVA	
		: AMP						Α	CTUAL					45	
	178	: AMP	S PHASI	EΒ					N	IEC DEN	MAND:	106		22	
DANIEL	NOTEO:														
	NOTES:	DDEAKE	D DED I	NEC 240	19/1										
	PROVIDE AFCI CIRCUIT I					N CON	ITDACT	ΩD							
,	PROVIDE COMBINATION							UN.							
3)	TROVIDE CONIDINATION	OLIVINE	AIUII	II L VII	TOOII L	JI NEMNE	Α.								

VOLTS I	L-N : 120	MAIN C	PTIONS	REQUI	RED	PA	NEL:	UNIT	A2S					ENCLOSURE DATA	
VOLTS F	PH. : 208	S.E. F	RATED:	N/A			MCB:	N/A	AMPS					NEMA: 1	
PHASE :	: 1	GFIF	PROT.:	N/A			MLO:	125	AMPS					SECTIONS: 1	
MOUNT	ING : FLUSH	SHUNT	TRIP:	N/A										WDTH/SECT.: 14.25	
MFR: S	SQ. D.													DEPTH: 3.75	
TYPE : (QO														
	AIC	RATING	G (FULL)	Y RATEI	OR SE	ERIES R	ATED):	65	KA (MI	NIMUM,	SEE SE	PECIFIC	ATIONS)	
NOTES	DESCRIPTION		AMPS	AMPS		C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS		DESCRIPTION	NOTE
		CONN					NUM.		POLES				CONN		
2	CU-1	7	7		15	2	1	2	2	25	19		19	AH-1	2
2	====	7		7	===	===	3	4	===	===		19	19	====	2
	SMALL APPLIANCE	12	12		20	1	5	6	1	20	10		10	REFRIGERATOR	1
	SMALL APPLIANCE	12		12	20	1	7	8	1	20		8	8	DISHWASHER	3
	RANGE	40	40		50	2	9	10	1	20	8		8	DISPOSAL	1
	====	40		40	===	===	11	12	1	20		8	8	MICROWAVE/HOOD	1
	DRYER	24	24		30	2	13	14	1	20	2		1	BATHROOM RECPT.	
	====	24		24	===	===	15	16	2	40		29	29	EWH-1	2
3	WASHER	10	10		20	1	17	18	===	1	29		29	====	2
1	LIGHTS/RECEPTACLES	1200		10	15	1	19	20	1	15		10	1200	BEDROOM LTS/RECPTS	1
1	LIGHTS/RECEPTACLES	1200	10		15	1	21	22	1		0			SPACE	
	SPACE			0		1	23	24	1			0		SPACE	
1	WASHER LIGHTS/RECEPTACLES LIGHTS/RECEPTACLES	24 10 1200	10	10	=== 20 15	1 1 1	15 17 19 21	16 18 20 22	2 === 1	40	29	10	29	EWH-1 ==== BEDROOM LTS/RECPTS SPACE	
												AMPS		KVA	
	171	: AMPS	S PHASE	ΕA				A	CTUAL	CONN.	LOAD :	195		41	
	167	: AMPS	S PHASE	ЕВ					N	IEC DEN	/IAND :	110		23	
PANEL I	NOTES:														
	PROVIDE AFCI CIRCUIT I	BREAKE	R PER N	NEC 210	.12(A).										
• /	COORDINATE CIRCUIT E														

UL 1 5 L-1	N : 120	MAIN C	PTIONS	REQUI	RED	PA	NEL :	UNIT	B2S					ENCLOSURE DATA	
OLTS PH.			RATED:				MCB:		AMPS					NEMA: 1	
HASE: 1		GFI F	PROT.:	N/A			MLO:		AMPS					SECTIONS: 1	
OUNTING	G : FLUSH	SHUNT	TRIP:	N/A										WIDTH/SECT.: 14.25	
FR: SQ.	. D.													DEPTH: 3.75	
YPE : QO)														
	AIC	RATING	(FULL	Y RATE	OR SE	RIES R	ATED):	65	KA (MI	NIMUM,	SEE SF	PECIFIC	ATIONS)	
			,				,		,				,		
OTES	DESCRIPTION	LOAD	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
		CONN			AMPS	POLES	NUM.	NUM.	POLES	AMPS	1	_	CONN		
2 CI	U-2	8	8		15	2	1	2	2	25	19		19	AH-2	2
2 ==	===	8		8	===	===	3	4	===	===		19	19	====	2
1 SN	MALL APPLIANCE	12	12		20	1	5	6	1	20	10		10	REFRIGERATOR	1
1 SN	MALL APPLIANCE	12		12	20	1	7	8	1	20		8	8	DISHWASHER	3
R/	ANGE	40	40		50	2	9	10	1	20	8		8	DISPOSAL	1
==	===	40		40	===	===	11	12	1	20		8	8	MICROWAVE/HOOD	1
DF	RYER	24	24		30	2	13	14	1	20	3		2	BATHROOM RECPT.	
==	===	24		24	===	===	15	16	2	40		29	29	EWH-1	2
3 W	'ASHER	10	10		20	1	17	18	===	===	29		29	====	2
1 LIC	GHTS/RECEPTACLES	1200		10	15	1	19	20	1	15		10	1200	BEDROOM LTS/RECPTS	1
1 LI	GHTS/RECEPTACLES	1200	10		15	1	21	22	1	15	10		1200	BEDROOM LTS/RECPTS	1
	PACE			0		1	23	24	1			0		SPACE	

	GFI F SHUNT RATING	RATED: PROT.: TRIP:	N/A N/A N/A			MCB: MLO:	125	AMPS AMPS	NIMITM	055 05			NEMA: 1 SECTIONS: 1 WIDTH/SECT.: 14.25 DEPTH: 3.75	
AIC	SHUNT RATING	TRIP:	N/A	D OR SE	ERIES RA				NIMITM	055 05			WIDTH/SECT.: 14.25	
AIC	RATING	G (FULL)		D OR SE	ERIES R.	ATED):	65	KA (MI	NIMI IM	٥٢٢ ٥٢				
			y ratei	D OR SE	ERIES R.	ATED):	65	KA (MI	NIIMI IM	000			DEPTH: 3.75	
			y ratei	D OR SE	ERIES R	ATED):	65	KA (MI	NIMIIM	٥٢٢ ٥٢				
			Y RATEI	D OR SE	ERIES R	ATED):	65	KA (MI	MIIMIIM	OFF OF				
PTION	LOAD	AMDO							MINIO IVI,	SEE SE	ECIFIC	ATIONS)	
	,	AIVIPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	LOAD	DESCRIPTION	NO
	CONN			AMPS	POLES	NUM.	NUM.	POLES	AMPS			CONN		
	7	7		15	2	1	2	2	25	19		19	AH-1	1
	7		7	===	===	3	4	===	===		19	19	====	7
NCE	12	12		20	1	5	6	1	20	10		10	REFRIGERATOR	19
NCE	12		12	20	1	7	8	1	20		8	8	DISHWASHER	
	40	40		50	2	9	10	1	20	8		8	DISPOSAL	- 15
	40		40	===	===	11	12	1	20		8	8	MICROWAVE/HOOD	В
	24	24		30	2	13	14	1	20	2		1	BATHROOM RECPT.	
	24		24	===	===	15	16	2	40		29	29	EWH-1 1	- 6
	10	0		20	1	17	18	===	===	29		29	====	
PTACLES	1200		10	15	1	19	20	1	15		10	1200	BEDROOM LTS/RECPTS	
		0			1	21	22	1		0			SPACE	
			0		1	23	24	1			0		SPACE	
	ANCE ANCE PTACLES	ANCE 12 ANCE 12 40 40 24 24 10	ANCE 12 12 ANCE 12 40 40 40 24 24 24 10 0 EPTACLES 1200	ANCE 12 12 12 ANCE 12 12 40 40 40 40 24 24 24 24 24 25 PTACLES 1200 10 0	ANCE 12 12 20 ANCE 12 12 20 40 40 50 40 40 === 24 24 24 30 24 24 === 10 0 20 EPTACLES 1200 10 15	ANCE 12 12 20 1 ANCE 12 12 20 1 40 40 50 2 40 40 === === 24 24 24 30 2 24 24 === === 10 0 20 1 EPTACLES 1200 10 15 1	ANCE 12 12 20 1 5 ANCE 12 12 20 1 7 40 40 50 2 9 40 40 === 11 24 24 24 30 2 13 24 24 24 === 15 10 0 20 1 17 EPTACLES 1200 10 15 1 19	ANCE 12 12 20 1 5 6 ANCE 12 12 20 1 7 8 40 40 50 2 9 10 40 40 === 11 12 24 24 30 2 13 14 24 24 === 15 16 10 0 20 1 17 18 EPTACLES 1200 10 15 1 19 20 0 1 21 22	ANCE 12 12 20 1 5 6 1 ANCE 12 12 20 1 7 8 1 40 40 50 2 9 10 1 40 40 === === 11 12 1 24 24 30 2 13 14 1 24 24 === === 15 16 2 PTACLES 1200 10 15 1 19 20 1 0 1 21 22 1	ANCE 12 12 20 1 5 6 1 20 ANCE 12 12 20 1 7 8 1 20 40 40 50 2 9 10 1 20 40 40 === === 11 12 1 20 24 24 30 2 13 14 1 20 24 24 === === 15 16 2 40 10 0 20 1 17 18 === === EPTACLES 1200 10 15 1 19 20 1 15	ANCE 12 12 20 1 5 6 1 20 10 ANCE 12 12 20 1 7 8 1 20 40 40 50 2 9 10 1 20 8 40 40 === === 11 12 1 20 24 24 30 2 13 14 1 20 2 24 24 24 === 15 16 2 40 10 0 20 1 17 18 === 29 EPTACLES 1200 10 15 1 19 20 1 15	ANCE 12 12 20 1 5 6 1 20 10 ANCE 12 12 20 1 7 8 1 20 8 40 40 40 50 2 9 10 1 20 8 40 40 40 50 2 11 12 1 20 8 40 40 40 50 2 11 12 1 20 8 8 50 2 13 14 1 20 2 1 50 2 50 2 50 50 50 50 50 50 50 50 50 50 50 50 50	ANCE 12 12 20 1 5 6 1 20 10 10 ANCE 12 12 20 1 7 8 1 20 8 8 8 40 40 50 2 9 10 1 20 8 8 8 40 40 40 === === 11 12 1 20 8 8 8 24 24 30 2 13 14 1 20 2 1 24 24 === === 15 16 2 40 29 29 10 0 20 1 17 18 === 29 29 PTACLES 1200 10 15 1 19 20 1 15 10 1200	ANCE 12 12 20 1 5 6 1 20 10 10 REFRIGERATOR ANCE 12 12 20 1 7 8 1 20 8 8 DISHWASHER 40 40 50 2 9 10 1 20 8 8 DISPOSAL 40 40 === === 11 12 12 1 20 8 8 MICROWAVE/HOOD 24 24 30 2 13 14 1 20 2 1 BATHROOM RECPT. 24 24 === === 15 16 2 40 29 29 EWH-1 1 10 0 20 1 17 18 === 29 29 ==== EPTACLES 1200 10 15 1 19 20 1 15 10 1200 BEDROOM LTS/RECPTS 0 SPACE



PERMIT REVIEW STAMP

ISSUE HISTORY

REVISION HISTORY

1 05/06/20 PERMIT COMMENT RESPONSES

Description

1 11/22/19 SCHEMATIC DESIGN 2 12/06/19 DESIGN DEVELOPMENT 3 02/28/20 PERMIT REVIEW SET

No. Date

No. Date



19062 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ADAM S. LEVINE, PE ON DATE INDICATED IN DIGITAL SIGNATURE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THE ROBERT

FT. MYERS, FL

SCHEDULES - ELECTRICAL

E4.02

PLOTTED: 6/4/2020 11:42:34 AM

VOLTS L	N : 120	MAIN	OPTION	IS REQ	UIRED		PAI	NEL:	H1							ENCLOSURE DATA	· · · · · · · · · · · · · · · · · · ·
VOLTS F	PH. : 208	S.E. R	ATED:	N/A				MCB:	N/A	AMPS						NEMA: 3R	
PHASE :	3	GFIF	ROT.:	N/A				MLO:	125	AMPS						SECTIONS: 1	
MOUNT	ING : SURFACE	SHUNT	TRIP:	N/A												WIDTH/SECT.: 14.75	
MFR : S	SQ. D.															DEPTH: 4.52	
TYPE : (QO																
		AIC RA	ATING (FULLY	RATED	OR SE	RIES RA	ATED):	65	KA (MI	NIMUM	, SEE S	PECIF	CATIO	NS)		
NOTES	DESCRIPTION	CONN	AMPS	AMPS	AMPS		C.B. POLES	CKT. NUM.	CKT. NUM.	C.B. POLES		AMPS	AMPS	AMPS	LOAD CONN		NO
	LEV 1 COR LTS/EMERG.	1200	10			20	1	1	2	1	20	5			3	CORR. RECPT. LEVEL 1	
	LEV 2 COR LTS/EMERG.	1100		9		20	1	3	4	1	20		5		3	CORR. RECPT. LEVEL 2	
	LEV 3 COR LTS/EMERG.	1100			9	20	1	5	6	1	20			8	5	CORR. RECPT. LEVEL 3	
2	EXTERIOR LTS/EMERG.	850	7			20	1	7	8	1	20	6			4	OUTDOOR RECEPT.	
	UNIT HEATER H1	8		8		20	1	9	10	1	20		6		4	OUTDOOR RECEPT.	
1	FIRE PROTECT. BELL	3			3	20	1	11	12	1	20			7	850	LEV 1 LTS/RECP/EMERG	
1	FACP	5	5			20	1	13	14	1	20	3			2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2		3		20	1	15	16	1	20		10		10	GARAGE DOOR	
	GARAGE DOOR	10			10	20	1	17	18	1	20			3	2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2	3			20	1	19	20	1	20	10			10	GARAGE DOOR	
	GARAGE DOOR	10		10		20	1	21	22	1	20		3		2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2			3	20	1	23	24	1	20			10	10	GARAGE DOOR	
	GARAGE DOOR	10	10			20	1	25	26	1	20	3			3	TTC-A	Т
3	LANDSCAPE LIGHTS	1000		8		20	1	27	28	1	20		3		3	TVTC-A	
3	LANDSCAPE LIGHTS	1000			8	20	1	29	30	1	20			3	3	TTC-B	
1	BDA SYSTEM	5	5			20	1	31	32	1	20	3			3	TVTC-B	\Box
	SPARE			0		20	1	33	34	1	20		0			SPACE	
	SPARE				0	20	1	35	36	1				0		SPACE	
	SPACE		0				1	37	38	3	30	0				SURGE PROT. DEVICE	
	SPACE			0			1	39	40	===	===		0			====	
	SPACE				0		1	41	42	===	===			0		====	
	65	: AMF	S PHAS	SE B						AC	TUAL (CONN. EC DEM			KVA 24 24		
PANEL N	NOTES: PROVIDE CIRCUIT BREA	KER WI	TH REC) LOCKI	NG HAI	NDLE.											
,	CONNECT CIRCUIT VIA I LANDSCAPE LIGHTING T								LIGHTS.								

OLTS PH. : 208																	
		S.E. R	ATED:	N/A				MCB:	N/A	AMPS						NEMA: 3R	
HASE: 3		GFIF	ROT.:	N/A				MLO:	125	AMPS						SECTIONS: 1	
OUNTING : SU	RFACE	SHUNT	TRIP:	N/A												WIDTH/SECT.: 15	
IFR : SQ. D.																DEPTH: 4.52	
YPE : QO																	
		AIC RA	ATING (FULLY	RATED	OR SE	RIES RA	ATED):	65	KA (MI	NIMUM	, SEE S	PECIFI	CATION	NS)		
OTES DE	SCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTE
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN		
LEV 1 C	OR LTS/EMERG.	1200	10			20	1	1	2	1	20	5			3	CORR. RECPT. LEVEL 1	
LEV 2 CO	OR LTS/EMERG.	1100		9		20	1	3	4	1	20		5		3	CORR. RECPT. LEVEL 2	
LEV 3 C	OR LTS/EMERG.	1100			9	20	1	5	6	1	20			8	5	CORR. RECPT. LEVEL 3	
2 EXTERIO	OR LTS/EMERG.	850	7			20	1	7	8	1	20	6			4	OUTDOOR RECEPT.	
UNIT HE	ATER H1	8		8		20	1	9	10	1	20		6		4	OUTDOOR RECEPT.	
1 FIRE PR	OTECT. BELL	3			3	20	1	11	12	1	20			7	850	LEV 1 LTS/RECP/EMERG	
1 FACP		5	5			20	1	13	14	1	20	3			2	GARAGE LTS/RECEPT.	
GARAGE	LTS/RECEPT.	2		3		20	1	15	16	1	20		10		10	GARAGE DOOR	
GARAGE	DOOR	10			10	20	1	17	18	1	20			3	2	GARAGE LTS/RECEPT.	
GARAGE	LTS/RECEPT.	2	3			20	1	19	20	1	20	10			10	GARAGE DOOR	
GARAGE	DOOR	10		10		20	1	21	22	1	20		3		3	TTC-A	
GARAGE	LTS/RECEPT.	2			3	20	1	23	24	1	20			3	3	TVTC-A	
GARAGE	DOOR	10	10			20	1	25	26	1	20	0				SPARE	
3 LANDSC	APE LIGHTS	1000		8		20	1	27	28	1	20		0			SPARE	
3 LANDSC	APE LIGHTS	1000			8	20	1	29	30	1	20			0		SPARE	
1 BDA SYS	STEM	5	5			20	1	31	32	1		0				SPACE	
SPARE				0		20	1	33	34	1			0			SPACE	
SPARE					0	20	1	35	36	1				0		SPACE	
SPACE			0				1	37	38	3	30	0				SURGE PROT. DEVICE	
SPACE				0			1	39	40	===	===		0			====	
		+			0		1	41	42	===	===					====	

ENCLOSURE DATA

VOLTS L-N: 120

MAIN OPTIONS REQUIRED

2) CONNECT CIRCUIT VIA PHOTOCELL FOR CONTROL OF EXTERIOR/STAIR LIGHTS.

3) LANDSCAPE LIGHTING TO BE PROVIDED UNDER SEPARATE CONTRACT.

OLTS	L-N: 120	MAIN (OPTION	S REQ	UIRED		PAN	NEL:	H ₃ B							ENCLOSURE DATA	
OLTS	PH.: 208	S.E. R	ATED:	N/A				MCB:	N/A	AMPS						NEMA: 3R	
HASE	: 3	GFI P	ROT.:	N/A				MLO:	225	AMPS						SECTIONS: 1	
NUON	TING : SURFACE	SHUNT	TRIP:	N/A												WIDTH/SECT.: 20	
/IFR:	SQ. D.															DEPTH: 6	
YPE:	NQ																
		AIC RA	ATING (FULLY	RATED	OR SE	RIES RA	ATED):	65	KA (MI	NIMUM	, SEE S	PECIFI	CATION	IS)		
OTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOT
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN		
	LEV 1 COR LTS/EMERG.	1200	10			20	1	1	2	1	20	5				CORR. RECPT. LEVEL 1	
	LEV 2 COR LTS/EMERG.	1100		9		20	1	3	4	1	20		5		3	CORR. RECPT. LEVEL 2	
	LEV 3 COR LTS/EMERG.	1100			9	20	1	5	6	1	20			8	5	CORR. RECPT. LEVEL 3	
2	EXTERIOR LTS/EMERG.	850	7			20	1	7	8	1	20	6			4	OUTDOOR RECEPT.	
	GARAGE LTS/RECEPT.	2		3		20	1	9	10	1	20		6	_	4	OUTDOOR RECEPT.	
	GARAGE DOOR	10			10	20	1	11	12	1	20			7	850	LEV 1 LTS/RECP/EMERG	
	GARAGE LTS/RECEPT.	2	3	- 10		20	1	13	14	1	20	3	- 10		2	GARAGE LTS/RECEPT.	
	GARAGE DOOR	10		10		20	1	15	16	1	20		10	0	10	GARAGE DOOR	
	GARAGE LTS/RECEPT.	2	40		3	20	1	17	18	1	20	40		3	2	GARAGE LTS/RECEPT.	
3	GARAGE DOOR LANDSCAPE LIGHTS	1000	10	0		20	1	19 21	20	1	20	10	3		10 3	GARAGE DOOR	
3	LANDSCAPE LIGHTS	1000		8	8	20	1	23	24	1	20		J	3	3	TVTC-B	-
J	ELEVATOR HOISTWAY	5	5		O	20	1	25	26	1	20	0		3	J	SPARE	-
	ELEVATOR CAB LIGHTS	500	J	4		20	1	27	28	1	20	U	0			SPARE	
	ELEVATOR PIT	4		,	4	20	1	29	30	1	20			0		SPARE	
	ELEVATOR SUMP PUMP		10			20	1	31	32	1		0				SPACE	
1	SHUNT TRIP CIRCUIT	1		1		20	1	33	34	1			0			SPACE	
4	SHUNT TRIP COIL				0		1	35	36	1				0		SPACE	
4	ELEVATOR	43	43			60	3	37	38	3	30	0				SURGE PROT. DEVICE	
4	====	43		43		===	===	39	40	===	===		0			====	
4	====	43			43	===	===	41	42	===	===			0		====	

	PROJECT:	THE R	OBE	RT AF	PARTM	IENTS	- BUIL	DING T	TYPES	3 1, 2, 8	& 3										[DATE:	6/4/20	
	EQUIPMENT	VOLTS	PH	NEUT	MOTOR		ADDITIO	NAL	HEATER	ROR	MISC	TOTAL	PNL.	DISCON	NECT	STARTER	3	VOLTAGE	WIRE	NEUT	GND	#	CONDUIT	NOTE
	DESCRIPTION			Υ	(LARGE	ST)	MOTOR	S	LIGHTIN	IG LOAD	AMPS	AMPS	C.B.	SIZE	FUSE	SIZE	TYPE	DROP	PER	WIRE	WIRE	OF	SIZE	
				OR	H.P.	FLA	H.P.	FLA	KW	AMPS	1		SIZE	AMPS	SIZE	NEMA			PHASE			RUNS		
				N									AMPS		AMPS									
	AH-1	208	1	N	0.20	1.30			3.7	17.8		19	25					1.65%	#10		#10	1	1/2"	е
	AH-2	208	1	N	0.20	1.30			3.7	17.8		19	25					1.65%	#10		#10	1	1/2"	6
	CU-1	208	1	N		6.00		0.70				7	15	30	N.F.			1.55%	#10		#10	1	1/2"	
	CU-2	208	1	N		7.70		0.70				8	15	30	N.F.			1.94%	#10		#10	1	1/2"	
^																								
<u> </u>	EF-1	120	1	Y		1.00						1	20					0.03%	#12	#12	#12	1	1/2"	
1 /	EF-2	120	1	Y		1.00						1	20					0.08%	#12	#12	#12	1	1/2"	, i
	EWH-1, 2	208	1	N					6.0	28.8		29	40	60	N.F.			0.76%	#8		#10	1	3/4"	
																						<u> </u>		
	RANGE	208	1	Y	ļ					40.0		40	50					0.47%	#6	#6	#10	1	1"	
	DDVED	000								0.4.0		0.4						0.070/	"""	1110	"""	<u> </u>	4.00	
	DRYER	208	1	Y						24.0		24	30					0.97%	#10	#10	#10	1	1/2"	
	ELEVATOR	208	3	N		43.00			_		ļ	43	60	60	45			2.22%	#4		#8	1	1-1/4"	
	ELEVATOR	200	3	IN	-	43.00			_			43	00	00	45			2.22%	#4		#0	,1	1-1/4	
	ELEVATOR SUMP PUMP	120	1	Y	0.50	9.80			-		<u> </u>	10	20					2.94%	#10	#10	#10	1	1/2"	(
	LELVATOR SOME TOWN	120	<u> </u>		0.00	3.00			-			10	20					2.04 /0	#10	#10	#10		1/2	
	GENERAL NOTES:						l				<u> </u>			NOTES	1	ļL	<u>_</u>		<u> </u>					
	(1) - PROVIDE DISC. SW. AT	ALL PIEC	CES O	F EQUIP	MENT, U	NLESS (THERWI	SE NOTE	ED ON TI	HIS SCHE	DULE.			(a) - CO	NNECT \	VIA LINE VO	OLTAGE T	T'STAT. F	URNISHE	D BY ME	CHANICAI	L CONTE	RACTOR	
	(2) - C.B., STARTER, DISC.											IPMENT		(b) - CO	NNECT \	VIA CONTR	OL DEVI	CES FURI	NISHED B	Y MECHA	NICAL CO	ONTRAC	TOR.	
	MANUFACTURER. VE	RIFY REC	QUIRE	MENTS	WITH API	PROVED	EQUIPMI	ENT SHO	OP DRAW	INGS.				(c) - CO	NNECT \	VIA VFD FU	RNISHED	DBY MEC	HANICAL	CONTRA	CTOR.			
	(3) - PROVIDE NEMA OUTD	OOR RAT	ED EN	ICLOSUI	RES FOR	ALL DIS	C. SWS N	MOUNTE	DOUTD	OORS.				(d) - CO	NNECT \	VIA STARTE	ER FURN	NISHED BY	MECHAI	VICAL CO	NTRACT	OR.		
	(4) - COORDINATE STARTE													(e) - CO	NNECT \	VIA UNIT M	TD DISC.	SW. FUR	NISHED	NITH EQU	IPMENT.			
	(5) - E.C. TO VERIFY THAT	C.B.'S FC	OR MO	TORSA	RE SUFF	ICIENT 1	O ALLO	N START	TING OF	MOTOR,	IF			(f) - VER	IFY ELEC	CT. REQUIR	REMENT	S WITH EI	EV. CON	ISULTAN	T/INSTALI	LER PRI	OR TO ROU	GH-IN.
	REQUIRED FOR STAR	TING C.B	. ТОВ	BE INCRE	EASED TO	XAM A C	OF 225%	OF LAR	RGEST M	OTOR F.	L.A.			(g) - PR	OVIDE 12	0V/20A WP	G RECE	PTACLE IN	N ELEVAT	OR PIT.				
	(6) - INCREASE CONDUCTO	OR SIZES	AS RE	EQUIRE	IAM OT	NTAIN A	MAXIMUI	M OF 3%	6 VOLTA	GE DROP	BASED	ON												
	ACTUAL CIRCUIT LENG	STHS AS I	NSTA	LLED.																				
	(7) - TOTAL AMPS SHOWN	DO NOT II	NCLUI	DE NON-	-COINCID	ENTAL L	OADS																	
	ABBREVIATIONS:							N.F. = N	NON-FUS	SED				1										
	MCP = MOTOR CIRCUIT PE	ROTECTO	R C.B	3.				O.L. = T	HERMAL	OVER L	OAD ELE	MENT												
	MMS = MAN. MTR. STARTE	ER 20A SI	N. WIT	HO.L. A	ND PILO	Г		I = NFM	IA I ENCL	OSURE														
	IMINIS = MAN. MIR. STARTI																							
											IRE													
	MSS = MOTOR STARTING 2 VFD = VARIABLE FREQ. DR	OA SW. W						3R = NE	EMA 3R E	ENCLOSU V.P. STAII		TEEL EN	CL											

ISSUE HISTORY 1 11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 3 02/28/20 PERMIT REVIEW SET REVISION HISTORY No. Date Description 1 05/06/20 PERMIT COMMENT RESPONSES

PERMIT REVIEW STAMP



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THE ROBERT

FT. MYERS, FL

SCHEDULES - ELECTRICAL

E4.03

	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
IOTES	DESCRIPTION	CONN	AIVII S	AIVII 3	AIVII 3		POLES			POLES		AIVII 3	AIVII 3	AIVII O	CONN	1	NOTES
	LEV 1 COR LTS/EMERG.	1200	10			20	1	1	2	1	20	0				CORR. RECPT. LEVEL 1	
	LEV 2 COR LTS/EMERG.	1100	200.00	9		20	1	3	4	1	20		0		3	CORR. RECPT. LEVEL 2	
	LEV 3 COR LTS/EMERG.	1100			9	20	1	5	6	1	20			8	5	CORR. RECPT. LEVEL 3	
2 E	EXTERIOR LTS/EMERG.	850	7			20	1	7	8	1	20	6			4	OUTDOOR RECEPT.	
L	UNIT HEATER H1	8		8		20	1	9	10	1	20		6		4	OUTDOOR RECEPT.	
1 F	FIRE PROTECT. BELL	3			3	20	1	11	12	1	20			7	850	LEV 1 LTS/RECP/EMERG	
1 F	FACP	5	5			20	1	13	14	1	20	3			2	GARAGE LTS/RECEPT.	
0	GARAGE LTS/RECEPT.	2		3		20	1	15	16	1	20		10		10	GARAGE DOOR	
	GARAGE DOOR	10			10	20	1	17	18	1	20			3	2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2	3			20	1	19	20	1	20	10			10	GARAGE DOOR	
	GARAGE DOOR	10		10		20	1	21	22	1	20		3		2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2			3	20	1	23	24	1	20			10	10	GARAGE DOOR	
	GARAGE DOOR	10	10			20	1	25	26	1	20	3			3	TTC-A	
3 L	LANDSCAPE LIGHTS	1000		8		20	1	27	28	1	20		3		3	TVTC-A	
3 L	LANDSCAPE LIGHTS	1000			8	20	1	29	30	1	20			3	3	TTC-B	
1 E	BDA SYSTEM	5	5			20	1	31	32	1	20	3			3	TVTC-B	
5	SPARE			0		20	1	33	34	1			0			SPACE	
S	SPARE				0	20	1	35	36	1				0		SPACE	
5	SPACE		0				1	37	38	3	30	0				SURGE PROT. DEVICE	
5	SPACE			0			1	39	40	===	===		0			====	
S	SPACE				0		1	41	42	===	===			0		====	
		: AMP								AC	TUAL C		LOAD : MAND :		KVA 23 23		

PANEL: H2

MCB: N/A AMPS

ENCLOSURE DATA

NEMA: 3R

MAIN OPTIONS REQUIRED

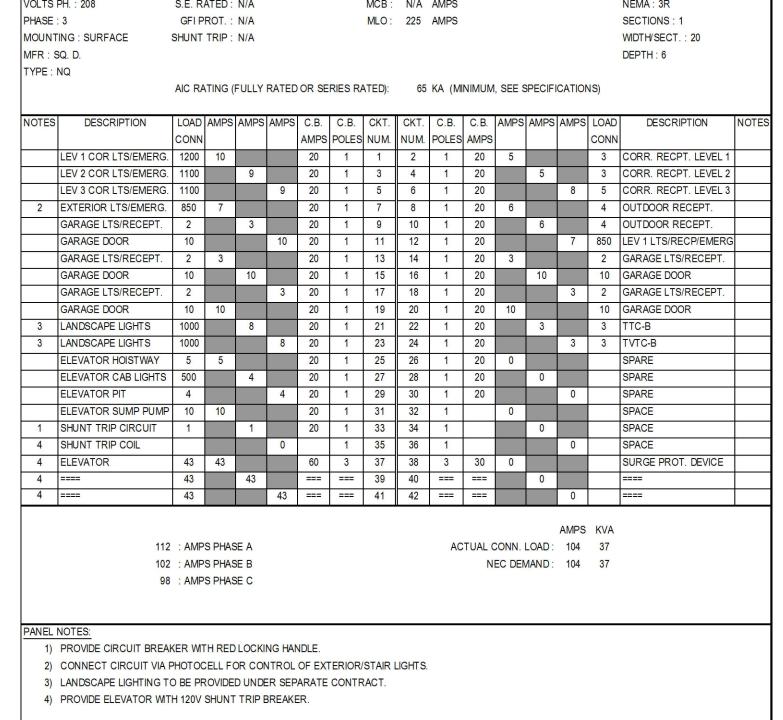
S.E. RATED: N/A

4) CONNECT VIA LTG. CONTACTOR 'MX2'.

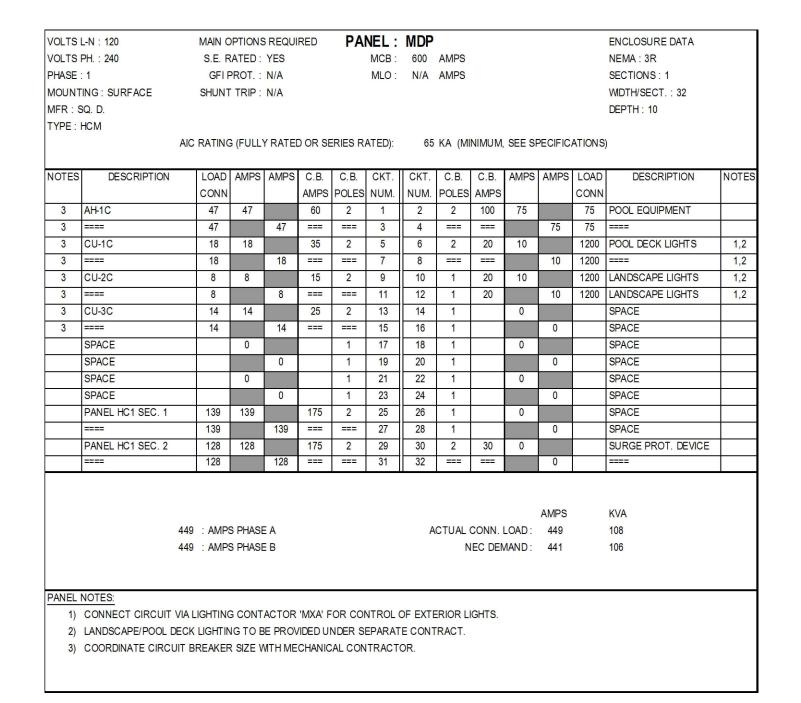
5) THIS CIRCUIT ONLY REQUIRED IN BUILDINGS #2 & #13.

VOLTS L-N: 120

VOLTS PH.: 208



PLOTTED: 6/4/2020 11:43:11 AM



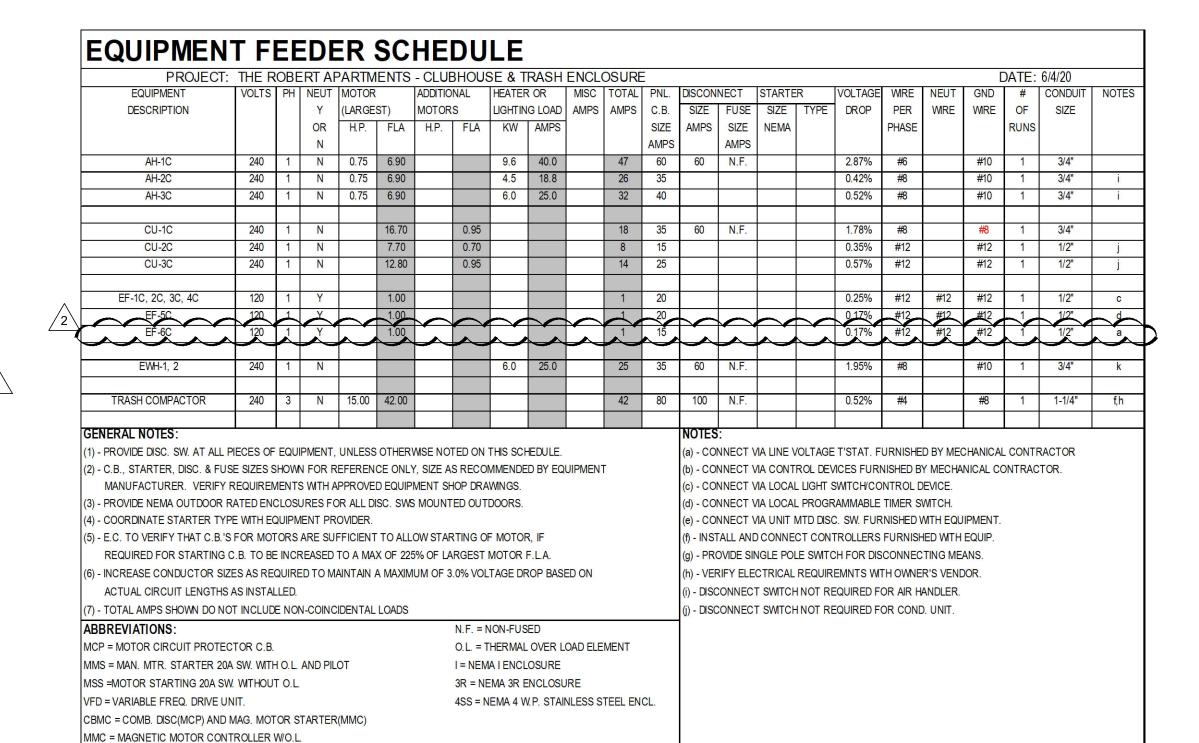
OLTS I	N : 120	MAIN (OPTION	S REQ	UIRED		PAI	NEL:	TE							ENCLOSURE DATA	
/OLTS I	N : 240	S.E. R.	ATED :	YES				MCB:	100	AMPS						NEMA: 3R	
PHASE :	3	GFI P	ROT. :	N/A				MLO :	N/A	AMPS						SECTIONS: 1	
MOUNT	ING : SURFACE	SHUNT	TRIP:	N/A												WIDTH/SECT.: 20	
MFR : S	Q. D.															DEPTH: 6	
TYPE : I	NQ																
		AIC RA	ATING (FULLY	RATED	OR SE	RIES R	ATED):	65	KA (MI	NIMUN	, SEE S	SPECIFI	CATION	VS)		
			,					,				,			,		
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN		
1,2	TRASH COMPACTOR	42	42			80	3	1	2	1	20	1			150	EXTERIOR LIGHTS	
1,2	====	42		42		===		3	4	1			0			SPACE (HIGH LEG)	3
1,2	====	42			42	===	===	5	6	1	20			2	1	WPG RECEPTACLE	
	SPARE		0			20	1	7	8	1		0				SPACE	
3	SPACE (HIGH LEG)			0			1	9	10	1			0			SPACE (HIGH LEG)	3
	SPARE				0	20	1	11	12	1				0		SPACE	
	SPACE		0				1	13	14	3	30	0				SURGE PROT. DEVICE	
3	SPACE (HIGH LEG)			0			1	15	16	===	===		0			====	
	SPACE				0		1	17	18	===	===			0		====	
•		_					•	•	'	•	•						•
														AMPS			
		3 : AMP								AC		CONN.		-	15		
		2 : AMP									N	EC DEN	/AND:	43	15		
	4	4 : AMP	S PHAS	E C													
PANELI	NOTES:																
1)	REFER TO EQUIPMENT	FEEDER	SCHE	DULE F	OR CO	NDUIT	AND CO	NDUC	OR RE	QUIREN	IENTS.						

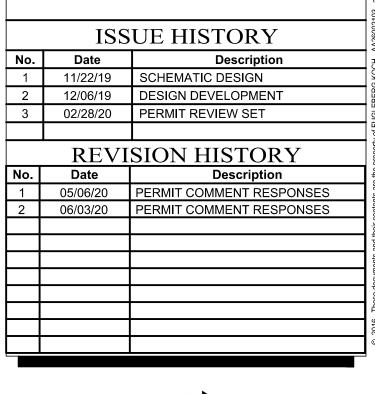
3) THIS PANEL IS FED WITH A 120/240V/3PH OPEN DELTA "HIGH-LEG" SERVICE. IDENTIFY HIGH-LEG CONDUCTOR WITH PERMANENT ORANGE

IDENTIFICATION AND TERMINATE ON "B" PAHSE.

	L-N : 120	MAIN O	PTIONS	REQUI	RED	PA		HC1		ION #	‡ 1)			ENCLOSURE DATA	
VOLTS	PH.: 240	S.E. R	ATED:	N/A			MCB:	N/A	AMPS					NEMA: 1	
PHASE	: 1	GFI F	PROT.:	N/A			MLO:	200	AMPS					SECTIONS: 1	
MOUNT	ING : SURFACE	SHUNT	TRIP:	N/A										WIDTH/SECT.: 14.25	
MFR : S	SQ. D.													DEPTH: 3.75	
TYPE:	QO														
	AIC	RATING	(FULL)	/ RATE	OR SE	RIES R	ATED):	65	KA (MI	NIMUM,	SEE SF	PECIFICA	ATIONS		
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	LOAD	DESCRIPTION	NOTE
		CONN			AMPS	POLES	NUM.	NUM.	POLES	AMPS			CONN		
	TTC	5	5		20	1	1	2	1	20	6		750	INTERIOR LTS/EMERG.	5
	TVTC	5		5	20	1	3	4	1	20		5	625	INTERIOR LTS/EMERG.	6
1	FACP	4	4		20	1	5	6	1	20	5		585	INTERIOR LTS/EMERG.	7
	EXERCISE EQUIP RM 77	12		12	20	1	7	8	1	20		7	875	EXTERIOR LIGHTS	2
	EXERCISE EQUIP RM 77	12	12		20	1	9	10	1	20	5		650	CEILING FANS ROOM 77	
	EXERCISE EQUIP RM 77	12		12	20	1	11	12	1	20		3	325	CLG FANS LOGGIA 71	
	EXERCISE EQUIP RM 77	12	12		20	1	13	14	1	20	4		475	CEILING FANS ROOM 70	
	EXERCISE EQUIP RM 77	12		12	20	1	15	16	1	20		6	4	RECEPTS-ROOM 70	
	EXERCISE EQUIP RM 77	12	12		20	1	17	18	1	20	8		8	FLOOR RECEPT-RM 70	
	RECEPT-RM 75,76,79	4		6	20	1	19	20	2	35		26	26	AH-2C	
	RECEPT-RM 72,73, EXT.		0		20	1	21	22	===	===	26		26	====	
	EXERCISE EQUIP RM 77	12		12	20	1	23	24	1	20		6	6	EWC- ROOM 77	4
	RECEPT-ROOM 77	3	5		20	1	25	26	1	20	0			SPARE	
	RECEPTS-EXT. LOGGIA	10		10	20	1	27	28	2	30		0		SURGE PROT. DEVICE	
	RECEPTS-EXT. LOGGIA	10	10		20	1	29	30	===	===	0			====	
		: AMPS						Α	CTUAL (LOAD : MAND :			KVA 31 31	
	NOTES: PROVIDE CIRCUIT BREAK	(ER WT	H RED I	OCKIN	G HAND	LE PER	NFPA 7	2.							
2)	CONNECT CIRCUIT VIA L	IGHTING	CONT	ACTOR	'MXA' F	OR CO	NTROL	OF EXT	ERIOR L	GHTS.					
	COORDINATE CIRCUIT B														
4)	PROVIDE GFI TYPE CIRC	UIT BRE	AKER.												
5)	THIS CIRCUIT FEEDS INT	ERIOR L	JGHTS I	N ROO	MS 72, 7	73, 74, 7	5, 76, 77	7, & 79.							
6)	THIS CIRCUIT FEEDS INT	ERIOR L	JGHTS I	N ROO	MS 59, 6	80, 61, 8	70.								
0)															

	L-N : 120		PTIONS		RED	PA	NEL:		•	TION #	‡ 2)			ENCLOSURE DATA	
VOLTS	PH.: 240	S.E. R	RATED:	N/A				N/A						NEMA: 1	
PHASE	: 1	GFI F	PROT.:	N/A			MLO:	200	AMPS					SECTIONS: 1	
MOUNT	ING : SURFACE	SHUNT	TRIP:	N/A										WIDTH/SECT.: 14.25	
MFR : S	SQ. D.													DEPTH: 3.75	
TYPE:	QO														
	AIC	RATING	G (FULL)	Y RATE	D OR SI	ERIES R	(ATED):	65	KA (M	NIMUM,	SEE SF	PECIFIC	ATIONS)	
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	LOAD	DESCRIPTION	NOTE
		CONN				POLES	NUM.	NUM.	POLES	AMPS			CONN		
	KIT RECPT-ROOM 70	12	12		20	1	31	32	2	35	25		25	EWH-1 - ROOM 75	3
	KIT RECPT-ROOM 70	12		12	20	1	33	34	===	===		25	25	====	3
	DISPOSAL-RM 70	7	7		20	1	35	36	1	20	6		4	RECEPT-RM 69, 70	
	KIT RECPT-ROOM 70	12		12	20	1	37	38	1	20		6	4	RECEPT-RM 67, 69	
	DISHWASHER-RM 70	9	9		20	1	39	40	1	20	3		3	MOTORIZED DAMPERS	
	KIT RECPT-ROOM 70	12		12	20	1	41	42	2	40		32	32	AH-3C	
4	REFRIGERATOR-RM 70	11	11		20	1	43	44	===	===	32		32	====	
	RECEPT-RM 60, 61	4		6	20	1	45	46	1	20		5	5	BDA SYSTEM	1
	RECEPT-RM 59, 60	4	6		20	1	47	48	2	35	25		25	EWH-2 - ROOM 79	3
	RECEPT-RM 59,61,63,80	5		8	20	1	49	50	===	===		25	25	====	3
4	UC REFRIG-ROOM 63	5	5		20	1	51	52	1	20	0			SPARE	
	COPIER - ROOM 63	12		12	15	1	53	54	1	20		0		SPARE	
	RECEPT-RM 63,65,66,67	4	6		20	1	55	56	1	20	0			SPARE	
	RECEPT-RM 64 75 EXT	3		5	20		57	58	2	30		0		SURGE PROT. DEVICE	
1	ÉF-6C	1	1		15	1	59	60	===	===	0			====	
					入										
												AMPS		KVA	
	148	: AMPS	S PHASE	ΕA				A	CTUAL	CONN.	LOAD :	154		37	
	159	: AMPS	S PHASE	В					N	IEC DEN	/AND:	154		37	
DANEL	NOTEO														
PANEL 1	NOTES: PROVIDE CIRCUIT BREAL	CER IMIT	HBEDI	OCKINI	C HAND		NEDA 7	2							
,	CONNECT CIRCUIT VIA L								EVTED		JTQ				
,									EVIEK	UK LIGI	113.				
,	COORDINATE CIRCUIT B			VI I I IVIE	CHAINIC	AL COI	VIRACI	UK.							
	PROVIDE GFI TYPE CIRC	UII BKE	ANEK.												

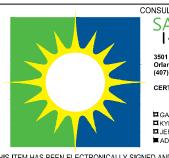




PERMIT REVIEW STAMP



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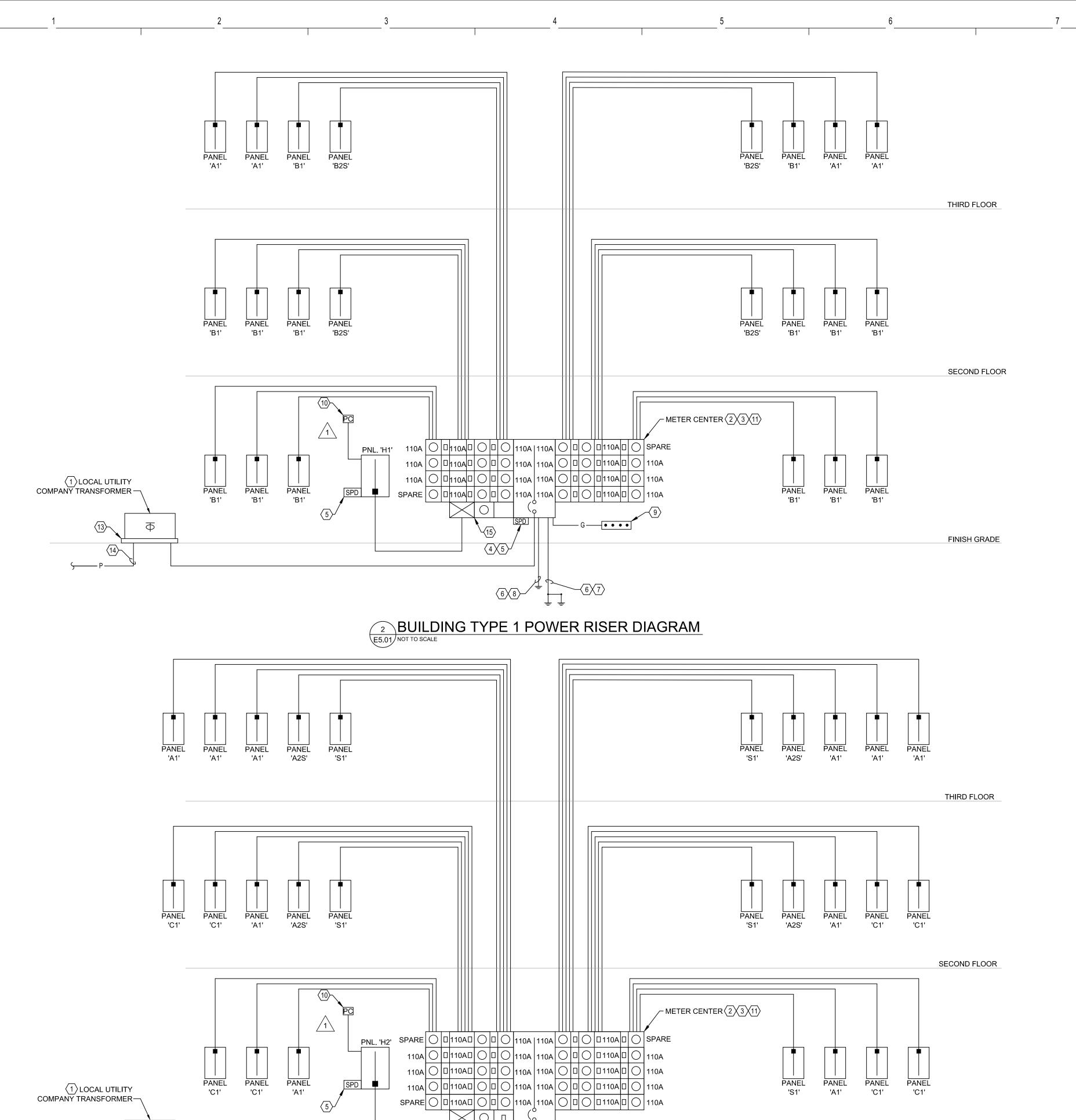
THE ROBERT

FT. MYERS, FL

SCHEDULES - ELECTRICAL

E4.04

PLOTTED: 6/4/2020 11:43:49 AM



1 BUILDING TYPE 2 POWER RISER DIAGRAM

E5.01 NOT TO SCALE

PANEL 'C1'

'A1'

1 LOCAL UTILITY

(14)

COMPANY TRANSFORMER—

PANEL FE	:EDEI	3 C	HEDU	JLE								
JOB NUMBER:	THE ROBER	T APARTME	NTS - BUILD	ING TYPE 1						DATE:	06/04/20	
FEEDER	CII	RCUIT BREAK	ER	FEEDER	FEEDER				FEEDER			
FEEDING	AMP SIZE	VOLTS	PHASE	CAPACITY	VOLT DROP	PARALLEL	PHASE	NEUTRAL	GROUND	ISOLATED	COPPER/	CONDUIT
					%	RUNS	WIRE	WIRE	WIRE	GROUND	ALUMINUM	SIZE
METER CENTER	1000	208	3	1020	1.69	3	#600	#600	N/A	N/A	ALUMINUM	4"
UNIT PANEL A1	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B1	110	208	1	135	1.76	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B2S	110	208	1	135	1.69	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
PANEL H1	100	208	3	100	0.33	1	#3	#3	#8	N/A	COPPER	1-1/4"

JOB NUMBE	ER: THE ROBER	T APARTME	NTS - BUILD	ING TYPE 2						DATE:	06/04/20	
FEEDER	CIF	RCUIT BREAK	ER	FEEDER	FEEDER				FEEDER			
FEEDING	AMP SIZE	VOLTS	PHASE	CAPACITY	VOLT DROP	PARALLEL	PHASE	NEUTRAL	GROUND	ISOLATED	COPPER/	CONE
					%	RUNS	WIRE	WRE	WRE	GROUND	ALUMINUM	SIZ
METER CENTER	1000	208	3	1020	1.69	3	#600	#600	N/A	N/A	ALUMINUM	4'
UNIT PANEL S1	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER
UNIT PANEL A1	110	208	1	135	1.96	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER
UNIT PANEL A2S	110	208	1	135	1.90	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER
UNIT PANEL C1	110	208	1	135	1.94	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER
PANEL H2	100	208	3	100	0.42	1	#3	#3	#8	N/A	COPPER	1-1

GENERAL NOTES:

1. COORDINATE ALL WORK WITH LOCAL UTILITY CO. (FP&L) PRIOR TO COMMENCING WORK.

2. ALL MAIN CIRCUIT BREAKERS RATED 1200A OR GREATER SHALL COMPLY WITH NEC 240.87 (ARC ENERGY REDUCTION) REQUIRING BOTH BREAKER DOCUMENTATION AS WELL AS APPROVED METHOD TO REDUCE CLEARING TIME.

REFERENCE NOTES:

- COORDINATE EXACT LOCATION AND QUANTITIES OF UTILITY TRANSFORMERS WITH CIVIL ENGINEER AND LOCAL POWER COMPANY PRIOR TO ROUGH-IN.
- (2) FURNISH AND INSTALL 120/208V, 3 PHASE, 4W, 1000A MAIN CIRCUIT BREAKER METER CENTER IN NEMA 3R ENCLOSURE WITH A TOTAL OF (6) METER SECTIONS. SERVICE ENTRANCE RATED AND LABELED WITH MINIMUM A.I.C. RATING OF 65K. REFER TO POWER RISER DIAGRAM FOR METER SOCKET AND CIRCUIT BREAKER SIZE REQUIREMENTS. LABEL "MAIN SERVICE DISCONNECT."
- (3) COORDINATE/VERIFY METERING EQUIPMENT CONFIGURATION WITH LOCAL UTILITY CO.
- (4) CONNECT SPD VIA 2P, NEMA 3R DISCONNECT SWITCH FUSED AT 30A.
- 5 PROVIDE SURGE PROTECTIVE DEVICE (SQ. D "HWA" SERIES OR APPROVED SUBSTITUTION). MINIMUM 100KA RATING.
- $\langle 6 \rangle$ #3/0 COPPER GROUND CONDUCTOR.
- $\langle 7 \rangle$ GROUNDING ELECTRODE CONDUCTOR TO (2) 5/8"x20'-0" COPPERCLAD GROUND RODS MINIMUM 20'-0" APART.
- (8) PROVIDE CONCRETE ENCASED ELECTRODE (ENCASE (1)#3/0 CU BARE CONDUCTOR IN CONCRETE FOOTER, MINIMUM 20'-0" OF CONDUCTOR WITH AT LEAST 2" OF CONCRETE COVER). BOND TO REBAR WHERE APPLICABLE.
- 9 PROVIDE EXTERNAL INTERSYSTEM BONDING TERMINATION (PER NEC 250.94) WITH MIN. #2 COPPER GROUND CONDUCTOR CONNECTION TO EQUIPMENT GROUNDING BUS IN METER CENTER. THE INTERSYSTEM BONDING TERMINATION SHALL HAVE A MIN. OF THREE TERMINATION POINTS.
- (10) PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR BUILDING LIGHTS. MOUNT 9'-0" A.F.G. ON BUILDING EXTERIOR. AIM NORTH.
- (11) PROVIDE LABELING FOR ALL APT. UNIT METERS AS REQUIRED INCLUDING APPROVED ADDRESSES AND SUITE NUMBERS.

 $\langle 12 \rangle$ NOT USED.

- (13) UTILITY TRANSFORMER PAD FURNISHED BY UTILITY COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR.
- (14) ALL PRIMARY CONDUIT FURNISHED BY UTILITY COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR AS REQUIRED PER COORDINATION WITH LOCAL UTILITY COMPANY.
- ⟨15⟩ PROVIDE 3 PHASE METER SOCKET AND 3P/100A CIRCUIT BREAKER FOR HOUSE PANEL. ALL OTHER METER SECTIONS TO BE 1 PHASE WITH 2P CIRCUIT BREAKERS AS INDICATED.

ISSUE HISTORY No. Date 11/22/19 SCHEMATIC DESIGN 12/06/19 DESIGN DEVELOPMENT 02/28/20 PERMIT REVIEW SET

PERMIT REVIEW STAMP

REVISION HISTORY Date Description 05/06/20 PERMIT COMMENT RESPONSES



2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595 www. fuglebergkoch.com BR569



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> THE ROBERT 09/10/2019 FT. MYERS, FL

POWER RISER DIAGRAMS -**ELECTRICAL**

E5.01

PLOTTED: 6/4/2020 11:44:11 AM

'C1'

FINISH GRADE

'A1'

GENERAL NOTES:

- 1. COORDINATE ALL WORK WITH LOCAL UTILITY CO. (FP&L) PRIOR TO COMMENCING WORK.
- 2. ALL MAIN CIRCUIT BREAKERS RATED 1200A OR GREATER SHALL COMPLY WITH NEC 240.87 (ARC ENERGY REDUCTION) REQUIRING BOTH BREAKER DOCUMENTATION AS WELL AS APPROVED METHOD TO REDUCE CLEARING TIME.

REFERENCE NOTES:

- COORDINATE EXACT LOCATION AND QUANTITIES OF UTILITY TRANSFORMERS WITH CIVIL ENGINEER AND LOCAL POWER COMPANY PRIOR TO ROUGH-IN.
- FURNISH AND INSTALL 120/208V, 3 PHASE, 4W, 1200A MAIN CIRCUIT BREAKER METER CENTER IN NEMA 3R ENCLOSURE WITH A TOTAL OF (8) METER SECTIONS. SERVICE ENTRANCE RATED AND LABELED WITH MINIMUM A.I.C. RATING OF 65K. REFER TO POWER RISER DIAGRAM FOR METER SOCKET AND CIRCUIT BREAKER SIZE REQUIREMENTS. LABEL "MAIN SERVICE DISCONNECT."
- (3) COORDINATE/VERIFY METERING EQUIPMENT CONFIGURATION WITH LOCAL UTILITY CO.
- CONNECT SPD VIA 2P, NEMA 3R DISCONNECT SWITCH FUSED AT 30A.
- PROVIDE SURGE PROTECTIVE DEVICE (SQ. D "HWA" SERIES OR APPROVED SUBSTITUTION). MINIMUM 100KA RATING.
- $\langle 6 \rangle$ #3/0 COPPER GROUND CONDUCTOR.
- GROUNDING ELECTRODE CONDUCTOR TO (2) 5/8"x20'-0" COPPERCLAD GROUND RODS MINIMUM 20'-0" APART.
- 8 PROVIDE CONCRETE ENCASED ELECTRODE
 (ENCASE (1)#3/0 CU BARE CONDUCTOR IN
 CONCRETE FOOTER, MINIMUM 20'-0" OF CONDUCTOR
 WITH AT LEAST 2" OF CONCRETE COVER). BOND TO
 REBAR WHERE APPLICABLE.
- 9 PROVIDE EXTERNAL INTERSYSTEM BONDING TERMINATION (PER NEC 250.94) WITH MIN. #2 COPPER GROUND CONDUCTOR CONNECTION TO EQUIPMENT GROUNDING BUS IN METER CENTER. THE INTERSYSTEM BONDING TERMINATION SHALL HAVE A MIN. OF THREE TERMINATION POINTS.
- PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR BUILDING LIGHTS. MOUNT 9'-0" A.F.G. ON BUILDING EXTERIOR. AIM NORTH.
- PROVIDE LABELING FOR ALL APT. UNIT METERS AS REQUIRED INCLUDING APPROVED ADDRESSES AND SUITE NUMBERS.
- (12) UTILITY TRANSFORMER PAD FURNISHED BY UTILITY COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL PRIMARY CONDUIT FURNISHED BY UTILITY COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR AS REQUIRED PER COORDINATION WITH LOCAL UTILITY COMPANY.
- PROVIDE 3PH METER SOCKET AND 3P/100A CIRCUIT BREAKER FOR HOUSE PANEL.
- PROVIDE 3PH METER SOCKET AND 3P/175A CIRCUIT BREAKER FOR HOUSE PANEL.
- (16) ALL OTHER METER SECTIONS TO BE 1PH WITH 2P CIRCUIT BREAKERS AS INDICATED.

PERMIT REVIEW STAMP

FUGLEBERG KOCH

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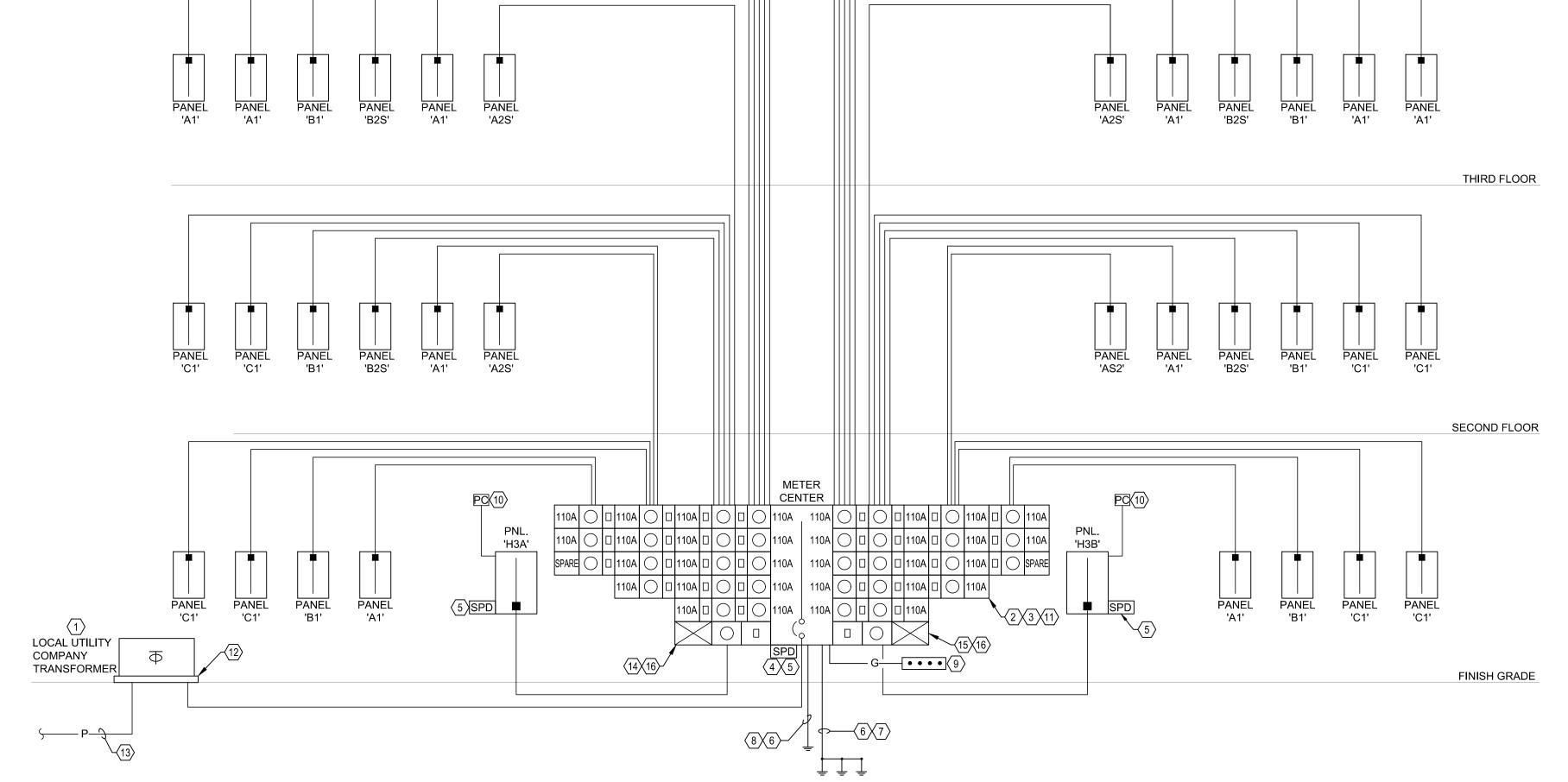
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THE ROBERT

FT. MYERS, FL

POWER RISER DIAGRAMS - ELECTRICAL

E5.02



BUILDING TYPE 3 POWER RISER DIAGRAM

E5.02 NOT TO SCALE

PANEL FE	EDEI	R SC	HEDU	JLE								
JOB NUMBER:	THE ROBER	RT APARTME	NTS - BUILD	ING TYPE 3						DATE:	06/04/20	
FEEDER	CI	RCUIT BREAK	ER	FEEDER	FEEDER				FEEDER			
FEEDING	AMP SIZE	VOLTS	PHASE	CAPACITY	VOLT DROP	PARALLEL	PHASE	NEUTRAL	GROUND	ISOLATED	COPPER/	CONDUIT
					%	RUNS	WIRE	WIRE	WIRE	GROUND	ALUMINUM	SIZE
METER CENTER	1200	208	3	1240	1.80	4	#500	#500	N/A	N/A	ALUMINUM	4"
UNIT PANEL A1	110	208	1	155	1.76	1	#3/0	#3/0	#1/0	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL A2S	110	208	1	135	1.69	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B1	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B2S	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL C1	110	208	1	155	1.82	1	#3/0	#3/0	#1/0	N/A	ALUMINUM	SE/SER CABLE
PANEL H3A	100	208	3	100	0.42	1	#3	#3	#8	N/A	COPPER	1-1/4"
PANEL H3B	175	208	3	175	0.29	1	#2/0	#2/0	#6	N/A	COPPER	2"

TRASH ENCLOSURE POWER RISER DIAGRAM

NOT TO SCALE

1 CLUBHOUSE POWER RISER DIAGRAM
E5.03 NOT TO SCALE

PANEL FE	EDEI	R SC	HEDU	JLE								
JOB NUMBER:	ASH ENCLOS	SURE				DATE: 06/04/20						
FEEDER	CI	CIRCUIT BREAKER		FEEDER	EEDER FEEDER				FEEDER			
FEEDING	AMP SIZE	VOLTS	PHASE	CAPACITY	VOLT DROP	PARALLEL	PHASE	NEUTRAL	GROUND	ISOLATED	COPPER/	CONDUIT
					%	RUNS	WRE	WRE	WRE	GROUND	ALUMINUM	SIZE
CLUBHOUSE												
C.T. CABINET	600	240	1	620	1.58	2	#500	#500	N/A	N/A	ALUMINUM	3"
MAIN SERVICE PANEL MDP	600	240	1	620	0.09	2	#500	#500	N/A	N/A	ALUMINUM	3"
PANEL HC1 (SECTION 1)	175	240	1	180	0.88	1	#4/0	#4/0	#4	N/A	ALUMINUM	2"
PANEL HC1 (SECTION 2)	175	240	1	180	0.88	1	#4/0	#4/0	#4	N/A	ALUMINUM	2"
POOL EQUIP. PANEL	100	240	1	115	1.67	1	#2	#2	#6	N/A	COPPER	1-1/4"
TRASH ENCLOSURE												
METER	100	240	3	130	1.62	1	#1	#1	N/A	N/A	COPPER	1-1/2"
PANEL TE	100	240	3	100	0.07	1	#3	#3	N/A	N/A	COPPER	1-1/4"

			CONN	DEMAND	DEMAND	DEMAND LOAD AMPS	
NEC	LOAD SERVED		LOAD	FACTOR	LOAD		
			KVA		KVA		
220.42	LIGHTING		9	100%	9	0	
220.44	RECEPTACLES						
	1ST 10KVA		9	100%	9	37	
	REMAINDER OVER 10 KVA		0	50%	0	0	
220.50	MOTORS						
	LARGEST MOTOR (NOTE 2)	5 KVA		25%	1	5	
	AHU'S		0	100%	0	0	
	EX FANS		0	100%	0	0	
	HEAT PUMPS		0	100%	0	0	
	COMPRESSOR/COND UNITS (NOTE 1)		10	80%	8	32	
	REMAINING MOTORS		0	100%	0	0	
220.51	ELECTRIC HEAT						
	AHU'S WITH ELECTRIC HEAT		25	100%	25	105	
	REMAINING LOADS						
	ELECTRIC WATER HEATERS		12	100%	12	50	
	MISC. EQUIPMENT		43	100%	43	179	
220.60	NOTE 1						
	WHEN COMPRESSOR/COND UNIT						
	LOAD IS NON-COINCIDENTAL TO ELECTRIC						
	HEAT. DEMAND EQUALS 100% OF THE LARGES	Т					
	LOAD AND 0% OF THE NON-COINCIDENTAL						
	SMALLER LOAD OR APPLICABLE PORTION						
430.24	NOTE 2						
	PLUS 25% DEMAND OF LARGEST MOTOR						
	LARGEST MOTOR FULL LOAD INCLUDED IN						
	MOTOR LOADS LISTED						
			CONN		DEMAND	DEMAND	
	VOLTAGE: 120/240V, 3W, 1PH		KVA		KVA	AMPS	
	SUB-TOTALS		108		107	446	
230.42	MINIMUM SERVICE SIZE				KVA	AMPS	
	DEMAND				107	446	
	PLUS 25% OF CONTINUOUS LOADS (LIGHTING)				2	9	
430.52	ALLOWANCE FOR MOTOR STARTING (PLUS 75%	OF LARGEST	MOTOR)		4	15	
	PLUS SPARE FOR EXPANSION 1	5 %			16	67	
	TOTALS				129	537	
	SELECTED SERVICE SIZE				144	600	

REFERENCE NOTES

- COORDINATE EXACT LOCATION OF UTILITY
 TRANSFORMER WITH CIVIL ENGINEER AND LOCAL
 POWER COMPANY PRIOR TO ROUGH-IN.
- ALL UTILITY TRANSFORMER PADS AND UNDERGROUND PRIMARY CONDUIT FURNISHED BY UTILITY COMPANY (FP&L) AND INSTALLED BY ELECTRICAL CONTRACTOR.
- PROVIDE 3PH/100A METER BASE PER UTILITY COMPANY REQUIREMENTS.
- PROVIDE C.T. CABINET AND METER BASE PER UTILITY COMPANY REQUIREMENTS.
- 5 PROVIDE GROUNDING PER REQUIREMENTS OF UTILITY COMPANY AND LOCAL AHJ.
- (6) LABEL "MAIN SERVICE DISCONNECT".
- PROVIDE SURGE PROTECTIVE DEVICE (SQ. D "HWA" SERIES OR APPROVED SUBSTITUTION). MINIMUM 100KA SURGE CURRENT RATING.
- 8 PROVIDE EXTERNAL INTERSYSTEM BONDING TERMINATION (PER NEC 250.94) WITH MIN. #2 COPPER GROUND CONDUCTOR CONNECTION TO EQUIPMENT GROUNDING BUS IN METER CENTER. THE INTERSYSTEM BONDING TERMINATION SHALL HAVE A MIN. OF THREE TERMINATION POINTS.
- 9 REFER TO WIRING DETAIL/SCHEMATIC ON DRAWING
- PROVIDE PHOTOCELL FOR CONTROL OF BUILDING EXTERIOR LIGHTS. MOUNT ON BUILDING EXTERIOR 9'-0" A.F.G. AIM NORTH.
- TO POOL EQUIPMENT PANEL. COORDINATE/VERIFY EXACT POWER REQUIREMENTS AND LOCATION OF POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- $\langle 12 \rangle$ #2/0 COPPER GROUND CONDUCTOR.
- GROUNDING ELECTRODE CONDUCTOR TO (2) 5/8"x20'-0" COPPERCLAD GROUND RODS MINIMUM 20'-0" APART.
- PROVIDE CONCRETE ENCASED ELECTRODE
 (ENCASE (1)#2/0 CU BARE CONDUCTOR IN
 CONCRETE FOOTER, MINIMUM 20'-0" OF
 CONDUCTOR WITH AT LEAST 2" OF CONCRETE
 COVER). BOND TO REBAR WHERE APPLICABLE.
- $\langle 15 \rangle$ #6 CU GROUND CONDUCTOR.
- PROVIDE PERMANENT LABELING TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT PER NEC
- PROVIDE SURGE PROTECTIVE DEVICE (SQ. D. "SDSA3650" OR APPROVED SUBSTITUTION).
- (18) 1-1/2" GLAV. RIGID CONDUIT WITH BUSHINGS AND PULLSTRING.

GENERAL NOTES

. COORDINATE ALL WORK WITH LOCAL UTILITY CO. (FP&L) PRIOR TO COMMENCING WORK.

PROVIDE PERMANENT LABELING FOR ALL
PANELBOARDS SUPPLIED BY FEEDERS TO
INDICATE EACH DEVICE OR EQUIPMENT WHERE

THE POWER ORIGINATES PER NEC 408.4(B).

 1
 11/22/19
 SCHEMATIC DESIGN

 2
 12/06/19
 DESIGN DEVELOPMENT

 3
 02/28/20
 PERMIT REVIEW SET

REVISION HISTORY

No. Date

Description

1 05/06/20

PERMIT COMMENT RESPONSES

ISSUE HISTORY

No.

Date

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2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595 www.fuglebergkoch.com BR569



3501 Quadrangle Boulevard, Suite 100
Orlando, Florida 32817
(407) 380-0400

CERT. OF AUTH. NO. 6106

GARY A. WILKERSON, P.E. 43167

KYLE J. CARTIER, P.E. 53269

JEFF A. KIRKMAN, P.E. 65629

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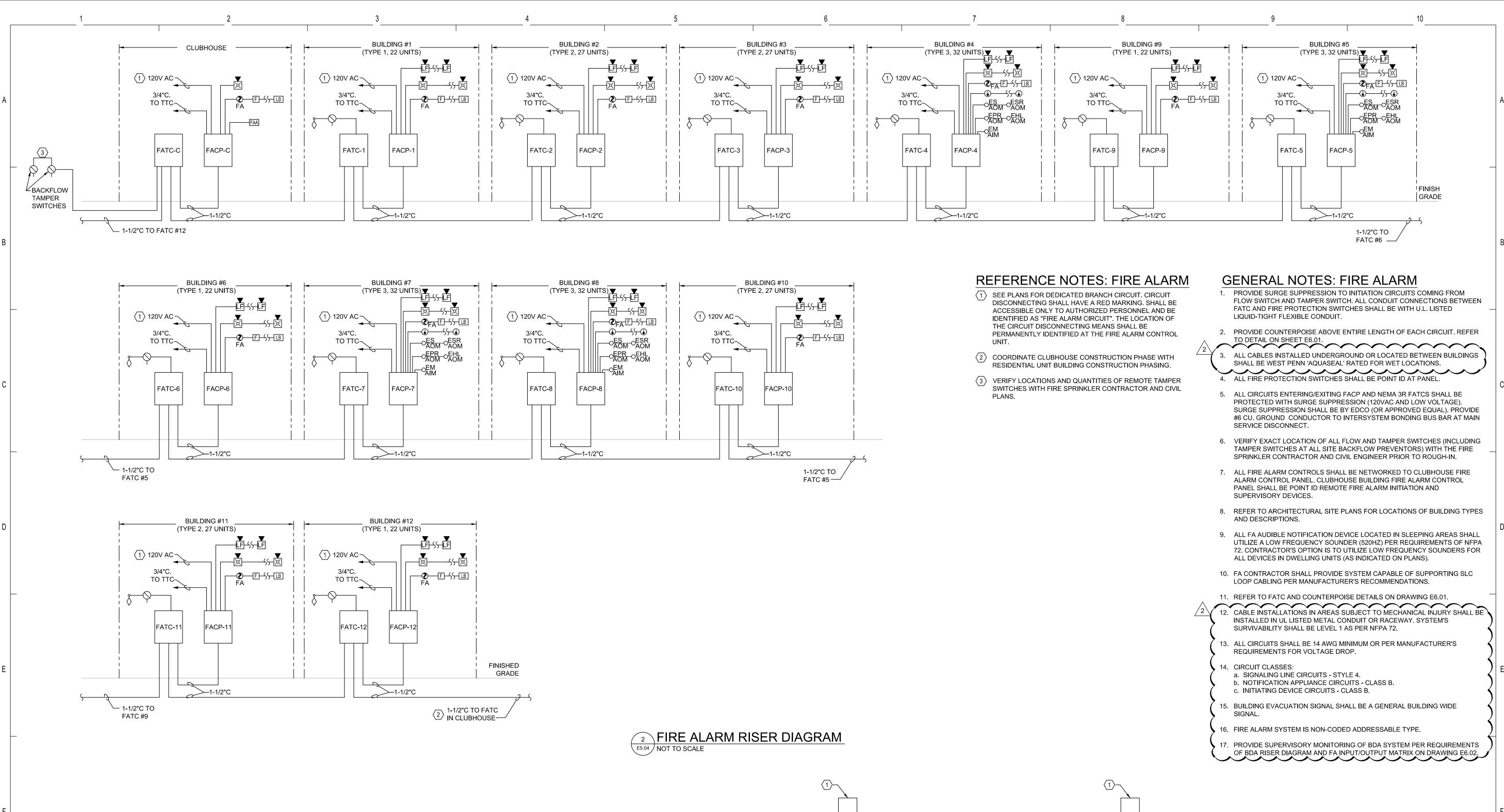
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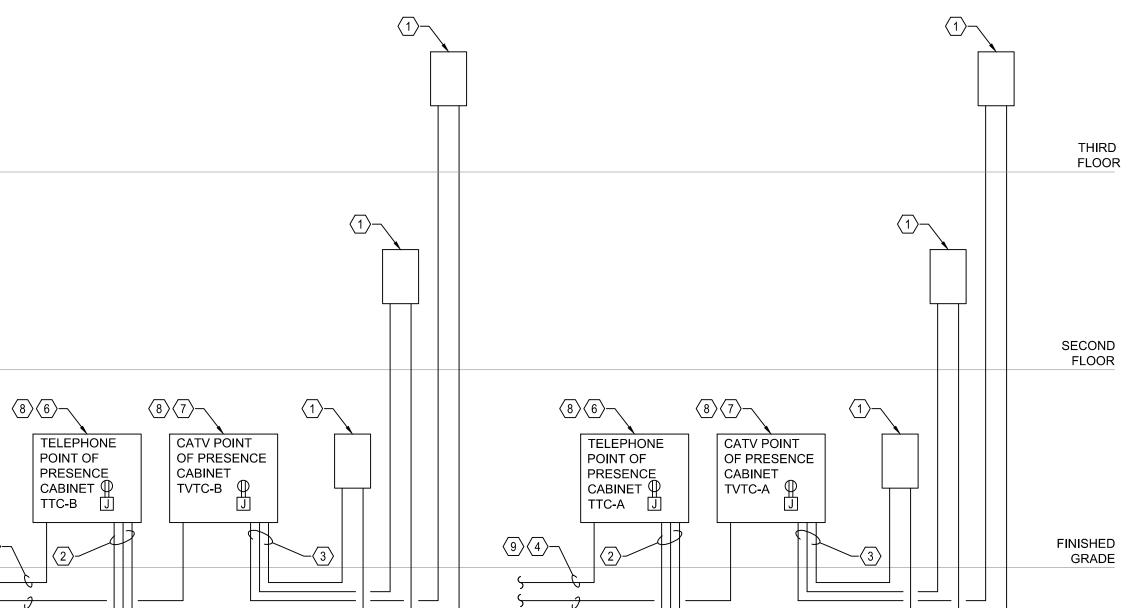
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POWER RISER DIAGRAMS - ELECTRICAL

E5.03

PLOTTED: 6/4/2020 11:44:53 AM





RESIDENTIAL BLDG. TELEPHONE/CATV RISER DIAGRAM

REFERENCE NOTES: RESIDENTIAL TELEPHONE/CATV

- RESIDENTIAL STRUCTURED MEDIA CENTER JUNCTION BOX. PROVIDE 14"x14"x3.5" ENCLOSURE FOR 1 AND 2 BEDROOM UNITS AND 28"x14"x3.5 ENCLOSURE FOR 3 BEDROOM UNITS WITH SCREW-ON COVER. COORDINATE POWER OUTLET REQUIREMENTS WITH UNIT ELECTRICAL PLANS. COORDINATE QUANTITY OF BOXES REQUIRED WITH BUILDING TYPE.
- 2 PROVIDE TO EACH UNIT (1) CAT 6 CABLE FOR TELEPHONE COMPANY SERVICE.
- (3) PROVIDE TO EACH UNIT (1) RG-6 COAX CABLE FOR CATV COMPANY SERVICE.
- TELEPHONE COMPANY SERVICE ENTRY 3" STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND TELEPHONE COMPANY PRIOR TO ROUGH-IN.
- 5 CATV COMPANY SERVICE ENTRY 3" STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND CATV COMPANY PRIOR TO ROUGH-IN.
- 6 PROVIDE TELEPHONE POINT OF PRESENCE CABINET. 36"Hx36"Wx8"D CABINET WITH HINGED PAD-LOCKABLE HANDLE
- 7 PROVIDE CATV POINT OF PRESENCE CABINET. 36"Hx36"Wx8"D CABINET WITH HINGED PAD-LOCKABLE
- 8 PROVIDE #4 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR AT MAIN SERVICE DISCONNECT.
- 9 COORDINATE LOCATION OF CABINET AND STUB-OUT WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN.

No. Date Description

1 11/22/19 SCHEMATIC DESIGN

2 12/06/19 DESIGN DEVELOPMENT

3 02/28/20 PERMIT REVIEW SET

REVISION HISTORY

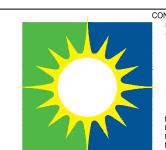
No. Date Description

2 06/03/20 PERMIT COMMENT RESPONSES

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3501 Quadrangle Boulevard, Suite 100
Orlando, Florida 32817
(407) 380-0400

CERT. OF AUTH. NO. 6106

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KYLE J. CARTIER, P.E. 53269

JEFF A. KIRKMAN, P.E. 65629

ADMS J EVIJE P.E. 77010

salas o'brien

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 Drawn:
 SWC

 Checked:
 GPM

 Approval:
 ASL

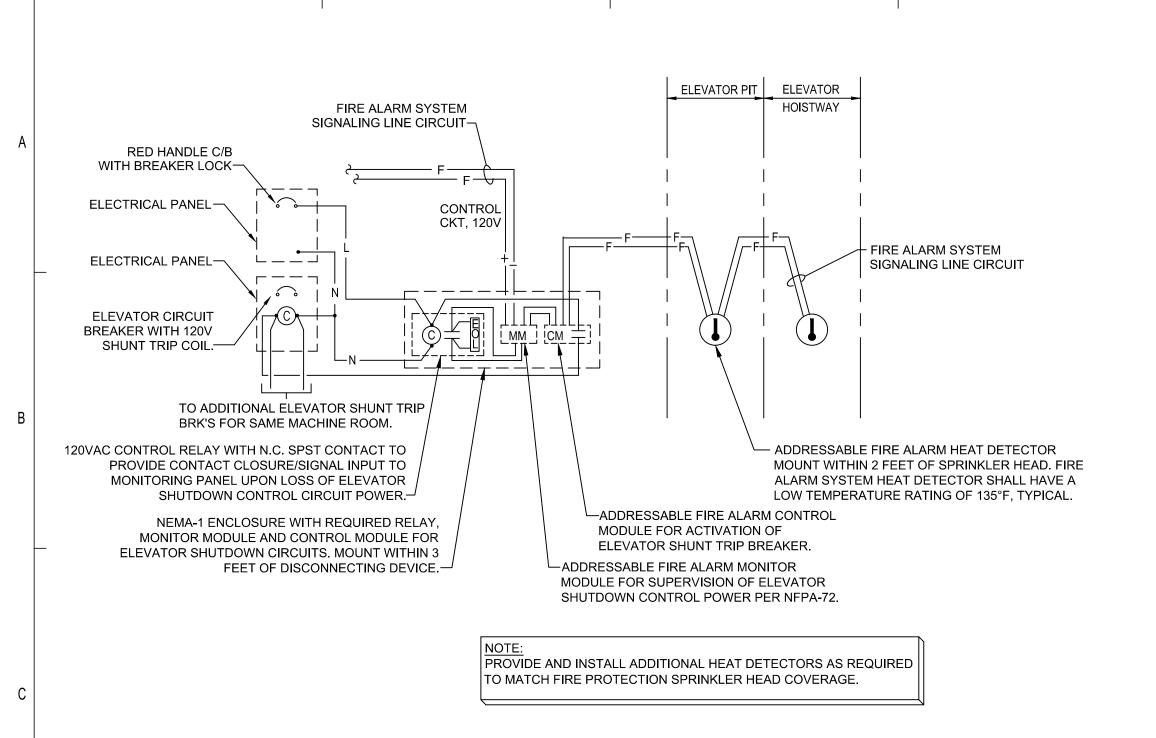
 Date:
 09/10/2019

 Project #:
 5592

SYSTEM RISER DIAGRAMS -ELECTRICAL

E5.04

PLOTTED: 6/4/2020 11:45:13 AM



ELEVATOR SHUTDOWN CONTROL WIRING WITH ADDRESSABLE FIRE ALARM SYSTEM DEVICES OUT TO SCALE

REFERENCE NOTES: CLUBHOUSE TELEPHONE/CATV

- TELEPHONE COMPANY ENTRY 3" CONDUIT STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND TELEPHONE COMPANY PRIOR TO ROUGH-IN.
- (2) CATV COMPANY SERVICE ENRRY 3" CONDUIT STUB-OUT. STUB-OUT 5'0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND CATV COMPANY PRIOR TO ROUGH-IN.
- PROVIDE TELEPHONE POINT OF PRESENCE CABINET. 24"x18"x6" CABINET WITH HINGED PAD-LOCKABLE
- PROVIDE CATV POINT OF PRESENCE CABINET 24"x18"x6" CABINET WITH HINGED PAD-LOCKABLE HANDLE.
- PROVIDE #4 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR AT MAIN SERVICE
- 6 PROVIDE (2) CAT 5e CABLES TO EACH COMMUNICATION OUTLET.
- 7 PROVIDE (1) RG-6 COAX CABLE AND (1) CAT. 5e CABLE FOR EACH TELEVISION OUTLET.
- (8) PROVIDE 2" CONDUIT NIPPLE.

SWITCHING PACK

SWITCHING PACK nPP16

SWITCHING PACK nPP16 D SA

☐FROM

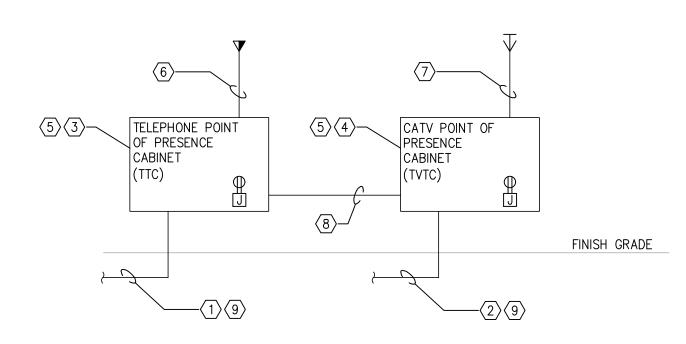
OCCUPANCY

SENSOR nCM PDT10

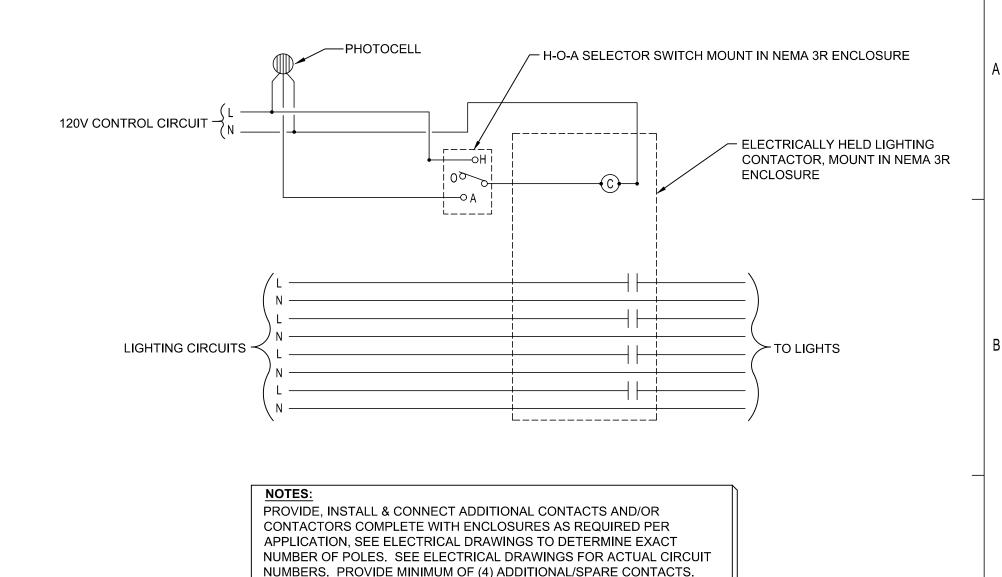
OCCUPANCY SENSOR nCM PDT10

VACANCY SENSOR nCM PDT10

(9) COORDINATE ALL WORK WITH LOCAL TELEPHONE/CATV COMPANY.

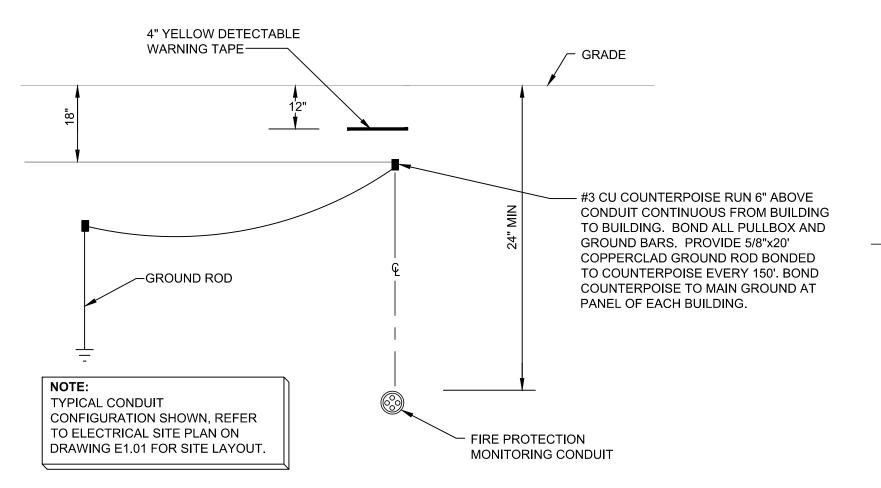


5 CLUBHOUSE TELEPHONE/CATV RISER DIAGRAM
E6.01 NOT TO SCALE

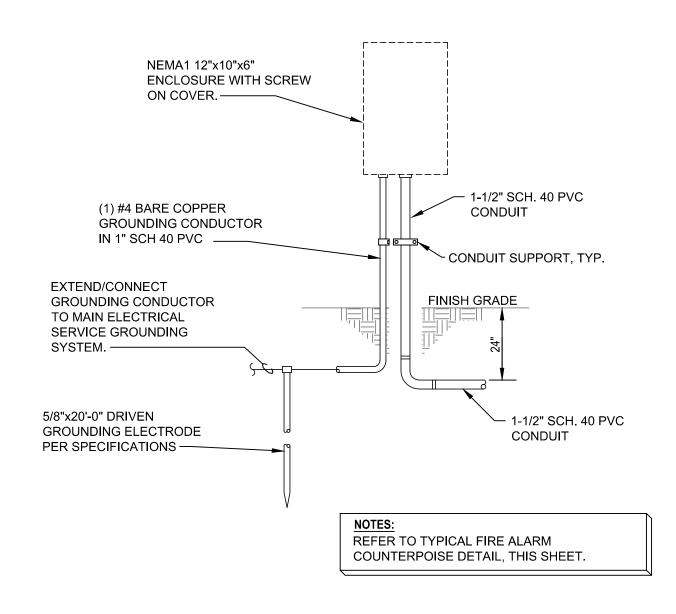


LIGHTING CONTACTOR 'MXA' SCHEMATIC - PHOTOCELL CONTROLLED

E6.01 NOT TO SCALE



TYPICAL FIRE ALARM COUNTERPOISE DETAIL NOT TO SCALE



1 FIRE ALARM TERMINAL CABINET DETAIL
E6.01 NOT TO SCALE

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DETAILS - ELECTRICAL

E6.01

ABUTTON/2 SCENE
CONTROL SWITCH ING PACK
INPP16 ("b")
VACANCY SENSOR
INCM PDT 10
VACANCY SENSOR
INCM PD

HALLWAY 67

MAIL KIOSK 72

ON/OFF SWITCH nPODM

ON/OFF/DIMMING

ASSISTANT MANAGER 59, MANAGER 60, RECEPTION 61

SWITCH

ON/OFF

SWITCH

nPODM

WIRE LEGEND

(LOW VOLTAGE)

(LINE VOLTAGE)

——(A)—— CAT 5e

——(B)—— CLASS 1

nPODM DX

MEDIA ROOM 69

OCCUPANCY

SENSOR nCM PDT10

OCCUPANCY SENSOR nCM PDT10

VACANCY

SENSOR nCM PDT10

VACANCY

SENSOR nCM PDT10

4 LIGHTING CONTROL WIRING DETAILS

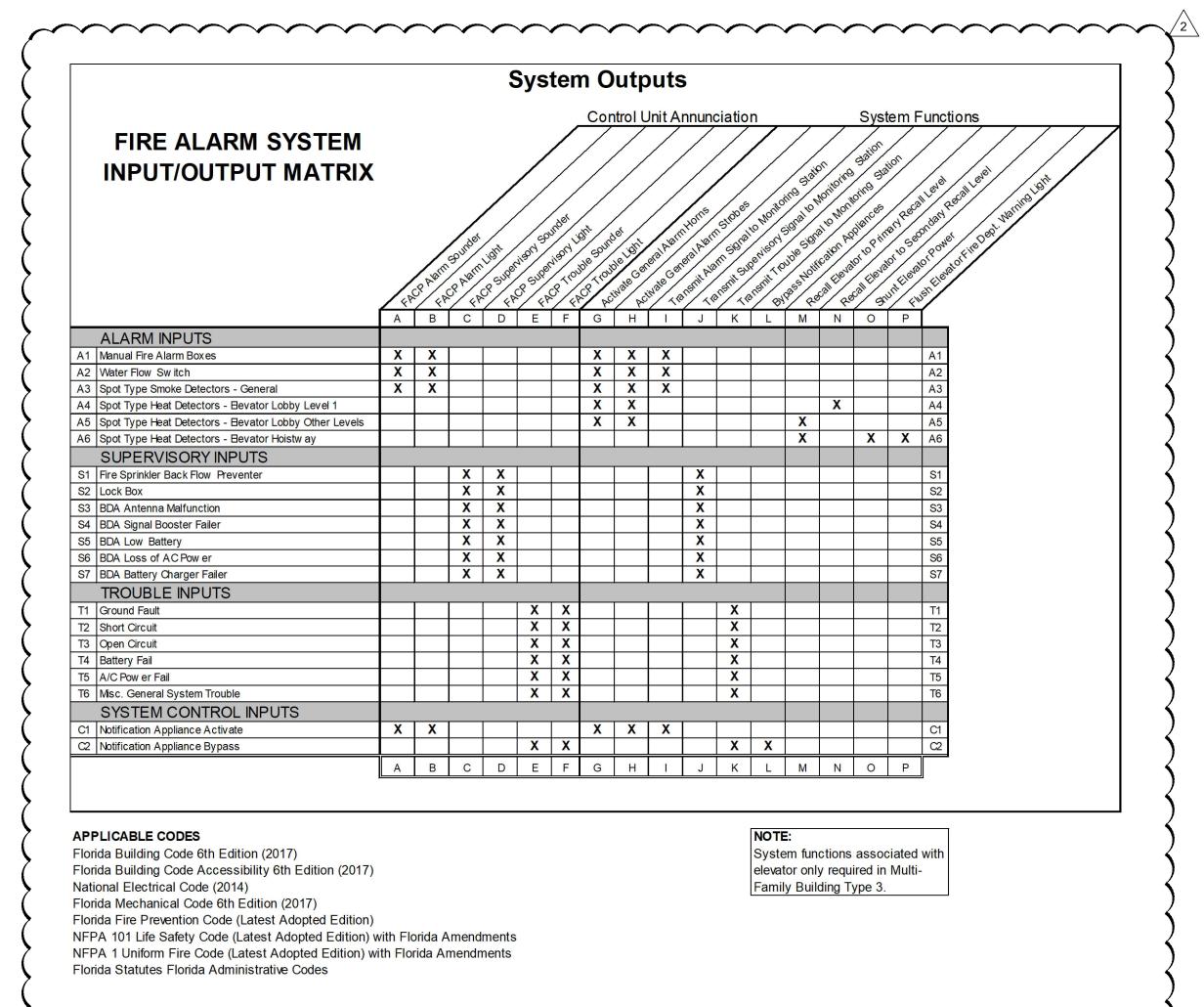
E6.01 NOT TO SCALE

VACANCY

SENSOR nCM PDT10

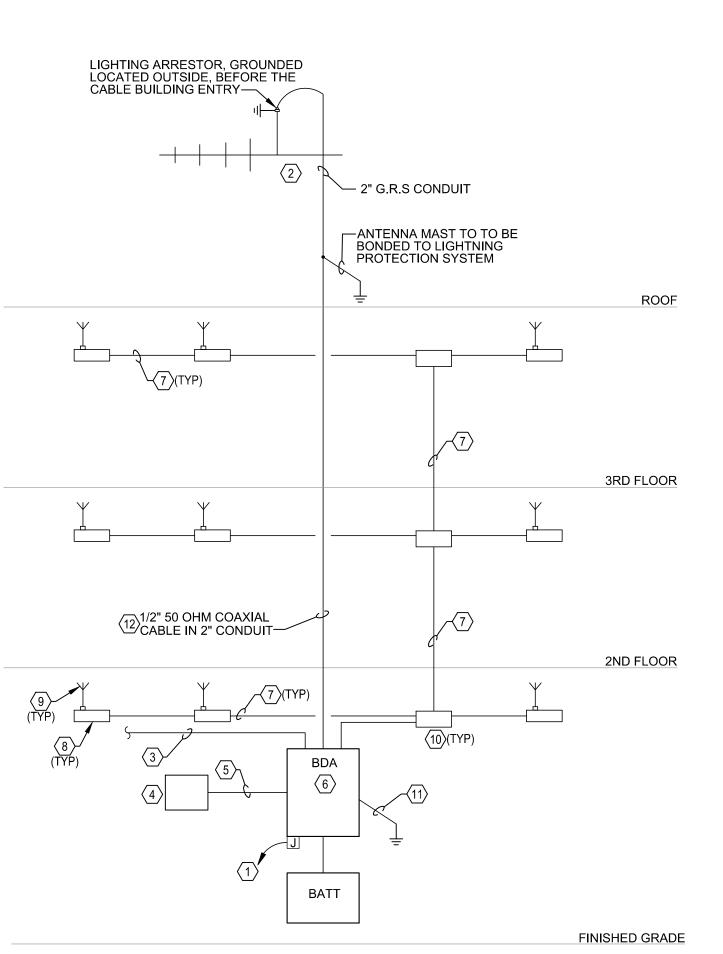
(IF REQUIRED)

PLOTTED: 6/4/2020 11:45:29 AM



FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

E6.02 NOT TO SCALE



GENERAL NOTES

- 1. A RADIO COVERAGE SURVEY SHALL BE CONDUCTED PRIOR TO, DURING, AND POST CONSTRUCTION TO ENSURE THE TWO-WAY RADIO COVERAGE MEETS THE REQUIREMENTS OF THE NFPA 72 SECTIONS 24.5.2.2.1 AND 24.5.2.2.2.
- 2. THE BUILDING THAT CANNOT SUPPORT THE REQUIRED LEVEL OF RADIO COVERAGE SHALL BE EQUIPPED WITH A DISTRIBUTED ANTENNA SYSTEM (DAS) WITH FCC-CERTIFIED SIGNAL BOOSTERS IN ORDER TO ACHIEVE THE REQUIRED ADEQUATE RADIO COVERAGE.
- 3. THE SIGNAL STRENGTH SHALL MEET THE REQUIREMENTS OF THE NFPA 72 SECTIONS 24.5.2.3.1 AND 24.5.2.3.2.
- 4. THE BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA) SHALL BE CAPABLE OF TRANSMITTING ALL PUBLIC SAFETY RADIO FREQUENCIES ASSIGNED TO THE JURISDICTION AND BE CAPABLE OF USING ANY MODULATION TECHNOLOGY.
- 5. THE BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA)
 SHALL BE CAPABLE OF UPGRADING TO ALLOW FOR
 INSTANCES WHERE THE JURISDICTION CHANGES
 OR ADDS SYSTEM FREQUENCIES, IN ORDER TO
 MAINTAIN RADIO SYSTEM COVERAGE AS
 ORIGINALLY DESIGNED.
- 6. ALL BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA) EQUIPMENT SHALL BE NEW, UL 2524 LISTED AND SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM.
- 7. ALL BDA EQUIPMENT 120V CIRCUITS SHALL BE PROVIDED WITH SURGE PROTECTION AND BREAKER LOCKOUT.
- 8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AN EVALUATION TEST PLAN (ETP) IN THEIR BASE BID. THE CONTRACTORS SHALL PRICE AND OFFER A DAS PROPOSAL AS AN ADD ALTERNATE TO THE OWNER IN THE CONTRACTORS BAS BID. ETP IS NOT OPTIONAL, AND IS REQUIRED. REFER TO SPECIFICATION SECTION 285000 FOR DETAILS AND REQUIREMENTS. THE DRAWINGS INCLUDE CAPACITY FOR A PATHWAY BETWEEN FLOORS AND LOCATION OF BDA SYSTEM PANEL AS WELL AS A PATHWAY TO THE ROOFTOP FOR DAS ANTENNAS IF PROJECT REQUIRES DAS.
- 9. IN CLUBHOUSE DAS ANTENNA LOCATIONS ON 2ND AND 3RD FLOOR ARE NOT APPLICABLE.

REFERENCE NOTES

- 120 VAC DEDICATED CIRCUIT. REFER TO LOCAL BUIDLING HOUSE PANEL OR BRANCH PANEL (CLUBHOUSE).
- DONOR ANTENNA, FACING DIRECTION AS REQUIRED PER RADIO COVERAGE SURVEY.
- PROVIDE CONNECTION TO THE LOCAL FIRE ALARM PANEL. PROVIDE 5 SUPERVISORY MODULES FOR THE BDA ANTENNA FAILURE, BDA TROUBLE, BDA POWER LOSS, BDA CHARGER TROUBLE AND BDA LOW BATTERY.
- 4 BDA STATUS ANNUNCIATOR, MOUNT IN A STANDARD 4" 2-GANG JUNCTION BOX.
- $\langle 5 \rangle$ 8 #18 AWG CABLE IN 1" C.
- 6 BDA SYSTEM AND BATTERY BACKUP. REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART
- 7 1/2" CABLE, RED JACKET, IMPRINTED 1/2"
 CORRUGATED ALUM PLENUM AIR DIELECTRIC, 50
 OHM COAXIAL CABLE IN 1-1/2" C.
- (8) DIRECTIONAL COUPLER, REFER TO SYMBOL

LEGEND FOR MANUFACTURER'S PART NUMBER.

- 9 DAS ANTENNAS, REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART NUMBER.
- 10) POWER DIVIDER, REFER TO SYMBOL LEGEND FOR
- MANUFACTURER'S PART NUMBER.

 (11) #6 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR.
- FURNISH AND INSTALL PROTECTIVE WRAP FOR ROOFTOP ANTENNA RISER CONDUIT IN ORDER TO PROVIDE A 2 HOUR FIRE RATING. PROVIDE ADDITIONAL CONDUIT SUPPORT AS REQUIRED FOR INSTALLATION OF PROTECTIVE WRAP. AS AN OPTION A 2 HOUR RATED COAXIAL CABLE MAY BE UTILIZED.

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ISSUE HISTORY

REVISION HISTORY

06/03/20 PERMIT COMMENT RESPONSES

Description

11/22/19 SCHEMATIC DESIGN
12/06/19 DESIGN DEVELOPMENT
02/28/20 PERMIT REVIEW SET

Date

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DETAILS AND SYSTEM RISER
- ELECTRICAL

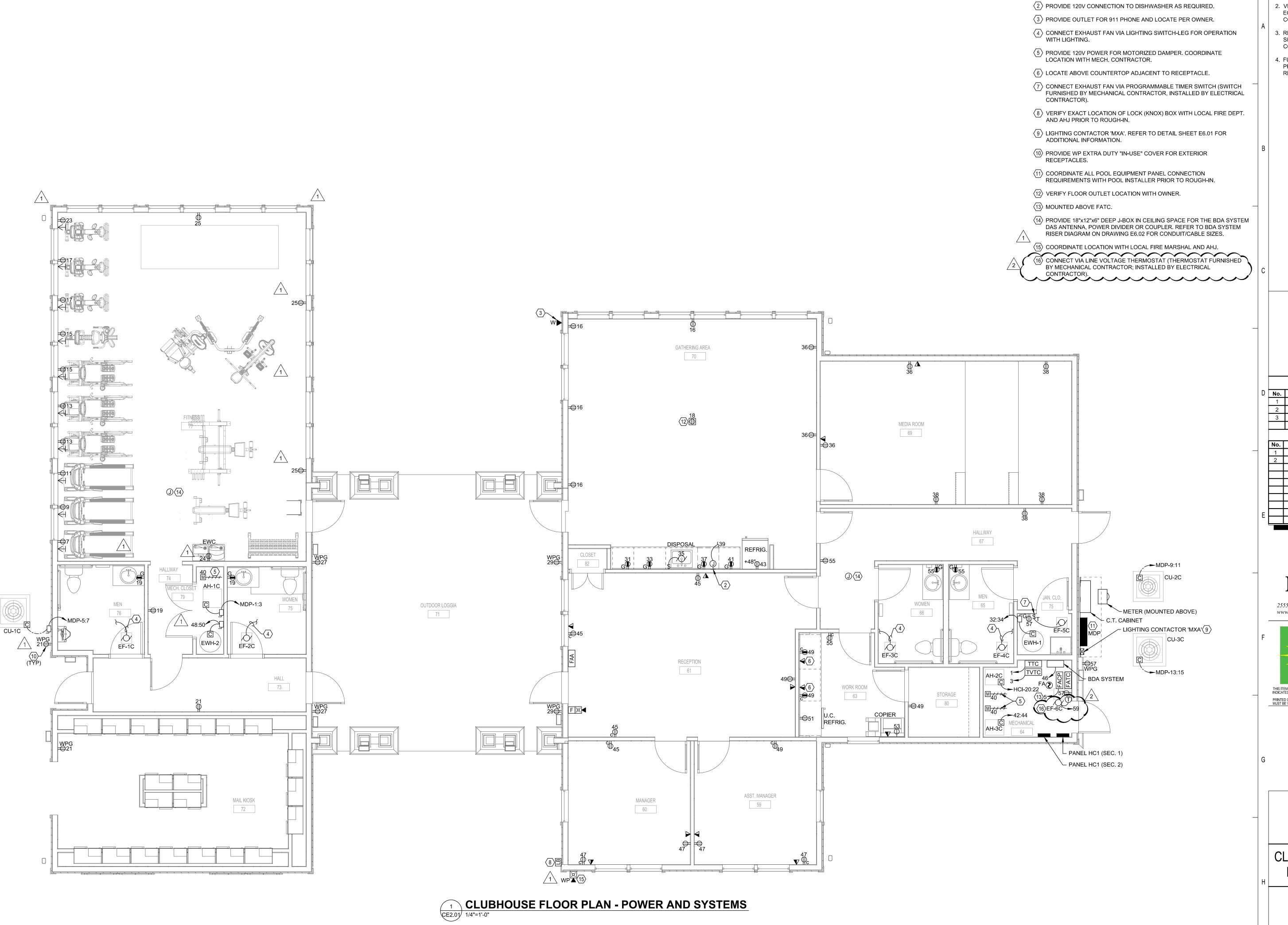
E6.02

BDA SYSTEM RISER DIAGRAM

1 BOA SYSTEM RISER DIAGRAM

10

PLOTTED: 6/4/2020 11:45:46 AM



GENERAL NOTES

REFERENCE NOTES

(1) COORDINATE RECEPTACLE LOCATIONS WITH OWNER AND INTERIOR

DESIGNER FOR EXERCISE EQUIPMENT PRIOR TO CONSTRUCTION.

1. ALL 120/240V CIRCUITS ON THIS PLAN ARE FED

FROM PANEL 'HC1' (UNLESS NOTED OTHERWISE).

2. VERIFY EXACT LOCATION OF ALL MECHANICAL

EQUIPMENT WITH RESPECTIVE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

3. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.04 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.

4. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.

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12/06/19 DESIGN DEVELOPMENT

Date

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CLUBHOUSE FLOOR PLAN -

POWER AND SYSTEMS

CE2.01

- PHOTOCELL MOUNTED ON FACE OF BUILDING.
 CONTRACTORS SHALL MOUNT PHOTOCELL ON
 NORTH SIDE OF BUILDING AND FACE DUE
 NORTH. CONTRACTOR TO VERIFY IN FIELD
 PRIOR TO ROUGH-IN.
- (2) CONNECT ALL EXTERIOR LIGHTS VIA LIGHTING CONTACTOR 'MXA'. PROVIDE #10 AWG CONDUCTORS MINIMUM FOR VOLTAGE DROP.
- 3 LOCATE IN ATTIC ADJACENT TO ACCESS HATCH.
- (4) CONNECT INTEGRATED FAN LIGHT TO EXTERIOR LIGHTING CIRCUIT VIA LIGHTING CONTACTOR 'MXA' (HCI-8).

GENERAL NOTES

- 1. ALL LIGHT FIXTURES ON THIS PLAN ARE TYPE "A" (UNLESS NOTED OTHERWISE).
- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCH/CONTROL DEVICE.
- 3. ALL 120/240V CIRCUITS ON THIS PLAN ARE FED

FROM PANEL 'HC1' (UNLESS NOTED OTHERWISE).

- 4. ALL FIXTURES DESIGNATED WITH "NL" ARE NIGHT LIGHT FIXTURES AND SHALL BE CONNECTED AHEAD OF ALL SWITCHES AND CONTROLS FOR 24 HOUR OPERATION.
- 5. THE CONTRACTOR SHALL PERFORM THE FUNCTIONAL TESTING OF THE CONTROLS FOR ALL AUTOMATIC LIGHTING SYSTEMS PER REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE C408.3.1 AND PROVIDE FINAL DOCUMENTATION TO THE REGISTERED DESIGN PROFESSIONAL THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF FLORIDA ENERGY CONSERVATION CODE SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATED OF OCCUPANCY.
- 6. REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E6.01.
- 7. LOCATE ALL CEILING OCCUPANCY/VACANCY SENSOR POWER/RELAY PACKS IN ACCESSIBLE LOCATIONS (ELECT/MECH. ROOM ATTIC ADJACENT TO ACCESS, ETC.). IDENTIFY ALL LOCATIONS ON "AS-BUILT" DRAWINGS.
- 8. VERIFY COLOR TEMP OF ALL LAMPS AND LED FIXTURES WITH INTERIOR DESIGNER.
- 9. ALL IC RATED RECESSED LIGHT FIXTURES SHALL BE SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATED "LESS THAN OR EQUAL TO 2CFM LEAKAGE AT 75PA".
- 10. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR LOCATIONS OF EXTERIOR WALL SCONCE FIXTURES.

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ISSUE HISTORY
Late Description

No.DateDescription111/22/19SCHEMATIC DESIGN212/06/19DESIGN DEVELOPMENT302/28/20PERMIT REVIEW SET

REVISION HISTORY

No. Date Description

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3501 Quadrangle Bo
Orlando, Florida 328
(407) 380-0400

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□ KYLE J. CARTIER,
□ JEFF A. KIRKMAN,
■ ADAM S. LEVINE, I

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CLUBHOUSE FLOOR PLAN - LIGHTING

CE2.02

