GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), AND THE LATEST ADOPTED EDITION OF THE FLORIDA BUILDING CODE.

2. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH ALL EQUIPMENT MANUFACTURER/INSTALLERS PRIOR TO BIDDING.

3. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD-PARTY TESTING AGENCY.

BUILDING:

4. INSTALLATION HEIGHT OF EQUIPMENT (TO CENTERLINE) ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE SHALL BE:

   RECEPTACLE = 18"
   CLOCK = 7'-6"
   SWITCH = 44"
   MODULAR JACK FOR WALL MOUNTED TELEPHONE = 48"
   MODULAR TELEPHONE JACK = 18"
   TELEVISION OUTLET = 84"
   COMPUTER OUTLET = 18"
   CALL SWITCH = 44"
   REMOTE TEST STATION FOR DUCT DETECTOR = 52"
   C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.

5. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.

6. ALL CONDUIT ROUTING SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE WITH ALL OTHER TRADES AND CONDITIONS IN FIELD PRIOR TO ROUGH-IN.

7. CONDUIT RUNS SHOWN ARE SCHEMATIC AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

8. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT AT ALL ELECTRICAL EQUIPMENT, PULL AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.

9. 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.

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

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

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

13. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS.

14. COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT LOCATED IN ELEVATOR MACHINE ROOMS, SHAFTS AND PITS. LOCATE EQUIPMENT AS REQUIRED TO MEET APPLICABLE CODES.PROVIDE AUTOMATIC DISCONNECTION OF THE ELEVATOR MAIN POWER SUPPLY (PER ANSI A17.1, RULE 102.2 1987 ED.) PRIOR TO ACTIVATION OF AUTOMATIC SPRINKLER SLOCATED WITHIN THE ELEVATOR MACHINE ROOM, PIT OR SHAFT. COORDINATE WITH FIRE PROTECTION AND FIRE ALARM INSTALLER.

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

16. ALL DIMMED CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS FOR EACH DIMMER AND PHASE CONDUCTOR THROUGHOUT THE ENTIRE CIRCUIT.

17. 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 (AIC) 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 AIC AT EACH POINT IN THE ELECTRICAL SYSTEM.

18. 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.

19. 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.

20. 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. ALL THREE PHASE MULTIWIRE BRANCH CIRCUITS SHALL BE FED VIA A THREE POLE BREAKER OR THREE SINGLE POLE BREAKERS WITH AN IDENTIFIED HANDLE TIE (PER NEC 210.4B).

21. PER NEC 110.22; PROVIDE PERMANENT LABELING FOR ALL SERIES RATED PANEL ENCLOSURES TO READ AS FOLLOWS: CAUTION – SERIES COMBINATION SYSTEM RATED _____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.

GROUNDING:

22. ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

23. UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT HOME RUN SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS NOTED OTHERWISE. COMBINED NEUTRALS ARE NOT PERMITTED.

GENERAL:

24. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE ELECTRICAL CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING: 1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

25. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE BUILDING OWNER AN OPERATING MANUAL AND MAINTENANCE MANUAL AS REQUIRED BY THE FLORIDA BUILDING CODE. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: 1. SUBMITTAL DATE STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

26. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE REQUIRED FUNCTIONAL TESTING OF THE LIGHTING SYSTEM TO ENSURE THAT THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED PARTY INDEPENDENT FROM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF FECC SECTION C405. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED: 1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR THE OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.

ELECTRICAL SYMBOL LEGEND

WIRING AND POWER

NOTE: SYMBOLS SHOWN ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

- WALL OUTLET BOX AND SINGLE RECEPTACLE
- WALL OUTLET BOX AND DUPLEX RECEPTACLE
- TWO GANG WALL OUTLET BOX AND (2) DUPLEX RECEPTACLES
- WALL OUTLET BOX AND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- WALL OUTLET BOX AND DUPLEX RECEPTACLE WITH TOP HALF SWITCHED
- WALL OUTLET BOX AND DUPLEX RECEPTACLE CONNECTED TO EMERGENCY SYSTEM
- CEILING OUTLET BOX AND SINGLE RECEPTACLE
- CEILING OUTLET BOX AND DUPLEX RECEPTACLE
- WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE
- WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- WALL OUTLET BOX AND DUPLEX SAFETY RECEPTACLE
- WALL OUTLET BOX AND DUPLEX TWIST-LOCK RECEPTACLE
- WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF COVER
- WALL OULTET BOX AND SPECIAL PURPOSE OUTLET AS NOTED ON PLANS
- FLUSH FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
- FLUSH FLOOR OUTLET BOX WITH (2) DUPLEX RECEPTACLES
- FLUSH FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS OUTLET
- FLUSH WALL JUNCTION BOX AND BLANK PLATE
- JUNCTION BOX AND BLANK PLATE ABOVE CEILING
- SURFACE MOUNTED JUNCTION BOX AND BLANK PLATE
- SURFACE MOUNTED WEATHERPROOF JUNCTION BOX AND COVER
- FLUSH GRADE FIBER COMPOSITE PULL BOX AS NOTED
- MOTOR CONNECTION AS NOTED
- FLUSH SHUNT-TRIP BUTTON, MOUNTED 80" TO TOP
- CONTROL AND/OR POWER EQUIPMENT CONNECTION
- TIME CLOCK
- PHOTO CELL
- DISCONNECT SWITCH, SIZE AS NOTED
- 120/208V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED
- 120/208V BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED
- 277/480V BRANCH CIRCUIT PANELBOARD
- TRANSFORMER
- AUTOMATIC TRANSFER SWITCH
- BRANCH CIRCUIT HOMERUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
- BRANCH CIRCUIT WIRING, PROVIDE QUANTITY OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING INDICATED ON PLANS
- POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
- CONDUIT CAPPED OFF
- CONDUIT CONTINUED
- CONDUIT RUN UP
- CONDUIT RUN DOWN
- GROUND OR GROUND ROD AS NOTED

LIGHTING AND SWITCHING

- CEILING MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED RECESSED DOWNLIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED RECESSED WALLWASH FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED "CLOSE TO CEILING" FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- PENDANT MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- TRACK LIGHT FIXTURE WITH HEADS AS REQUIRED, REFER TO LIGHT FIXTURE SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED LIGHT FIXTURE WITH EMERGENCY BACKUP
- CEILING MOUNTED RECESSED DOWNLIGHT FIXTURE WITH EMERGENCY BACKUP
- WALL MOUNTED LIGHT FIXTURE WITH EMERGENCY BACKUP
- WALL MOUNTED EMERGENCY BATTERY LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED EMERGENCY BATTERY LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- CEILING MOUNTED EXIT SIGN WITH EMERGENCY BACKUP, REFER TO LIGHT FIXTURE SCHEDULE
- WALL MOUNTED EXIT SIGN WITH EMERGENCY BACKUP, REFER TO LIGHT FIXTURE SCHEDULE
- COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
- Sa WALL OUTLET BOX AND SINGLE POLE SWITCH ('a' INDICATES SWITCH LEG)
- S3 WALL OUTLET BOX AND THREE-WAY SWITCH
- SF WALL OUTLET BOX AND FAN CONTROL SWITCH
- SD WALL OUTLET BOX AND DIMMER SWITCH AS REQUIRED FOR LOAD SERVED
- SD3 WALL OUTLET BOX AND THREE-WAY DIMMER SWITCH
- SM WALL OUTLET BOX WITH SINGLE POLE MANUAL MOTOR STARTER SWITCH
- SO WALL OUTLET BOX AND DUAL TECHNOLOGY OCCUPANCY SENSOR
- ST WALL OUTLET BOX AND DIGITAL TIMECLOCK SWITCH FOR AUTOMATIC CONTROL
- OS CEILING OUTLET BOX AND DUAL TECHNOLOGY OCCUPANCY SENSOR
- DL CEILING OUTLET BOX AND DAYLIGHT HARVESTING SENSOR

FIRE ALARM SYSTEM LEGEND

- F MANUAL PULL STATION
- cd WALL MOUNTED HORN WITH STROBE (cd=CANDELA RATING)
- WP WALL MOUNTED HORN WITH STROBE IN WEATHERPROOF ENCLOSURE
- CEILING MOUNTED HORN WITH STROBE
- M WALL MOUNTED MINI HORN
- M WALL MOUNTED MINI HORN WITH STROBE
- WALL MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
- CEILING MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
- WALL MOUNTED STROBE
- SMOKE DETECTOR
- DUCT MOUNTED SMOKE DETECTOR
- HEAT DETECTOR
- REMOTE DUCT DETECTOR INDICATOR LIGHT AND TEST SWITCH (NUMBER INDICATES QUANTITY)
- R FAN SHUT-DOWN RELAY
- D ELECTROMAGNETIC DOOR RELEASE DEVICE
- SMOKE DAMPER (PROVIDE BY MECHANICAL, CONNECTED BY ELECTRICAL)
- FP FIREMAN'S PHONE JACK
- TS SPRINKLER SYSTEM SUPERVISORY SWITCH CONNECTION
- FS SPRINKLER SYSTEM FLOW SWITCH CONNECTION
- CM CONTROL MODULE
- MM MONITOR MODULE
- LB LOCK BOX
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER

TELECOMMUNICATION SYSTEM LEGEND

- COMBINATION TELECOMMUNICATIONS/DATA WALL OUTLET BOX AND BLANK PLATE WITH MIN. 3/4"C. TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- W TELECOMMUNICATIONS WALL OUTLET BOX AND BLANK PLATE FOR WALL MOUNTED TELEPHONE WITH MIN. 3/4"C. TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- DATA WALL OUTLET BOX AND BLANK PLATE WITH MIN. 3/4"C. TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- FLUSH FLOOR OUTLET BOX WITH POWER DEVICE AND TELECOMMUNICATIONS OUTLET WITH MIN. 3/4"C. TO ACCESSIBLE CEILING SPACE.
- WAP CEILING OUTLET BOX AND BLANK PLATE WITH MIN. 3/4"C. TO TTB FOR WIRELESS ACCESS POINT. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- TV COMBINATION TELECOMMUNICATIONS/TELVISION WALL OUTLET BOX AND BLANK PLATE. COORDINATE OUTLET AND CABLING REQUIREMENTS WITH OWNER.
- 3/4" PLYWOOD TELEPHONE TERMINAL BOARD, SIZE AS SHOWN ON PLANS.
- TTC TELEPHONE TERMINAL CABINET, SIZE AS NOTED ON PLAN.

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LAKE L SUDDETH — 66020 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Blake L. Suddeth — Digitally signed by Blake L. Suddeth Date: 2022.02.24 15:41:09-05'00'

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REFERENCE NOTES: (X)

(1) ALL EXTERIOR SITE LIGHTING SHALL BE CONTROLLED BY LIGHTING CONTACTOR ASSOCIATED WITH THAT BUILDING'S HOUSE PANEL. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION. MINIMUM 2#10 CU. AND 1#10 CU. GND. IN 3/4"C FOR ENTIRE LENGTH OF CIRCUIT.

(2) PROPOSED LOCATION FOR NATURAL GAS GENSET. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. SEE POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

(3) COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN.

(4) WEATHERPROOF JUNCTION BOX FOR CONNECTION OF MONUMENT SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.

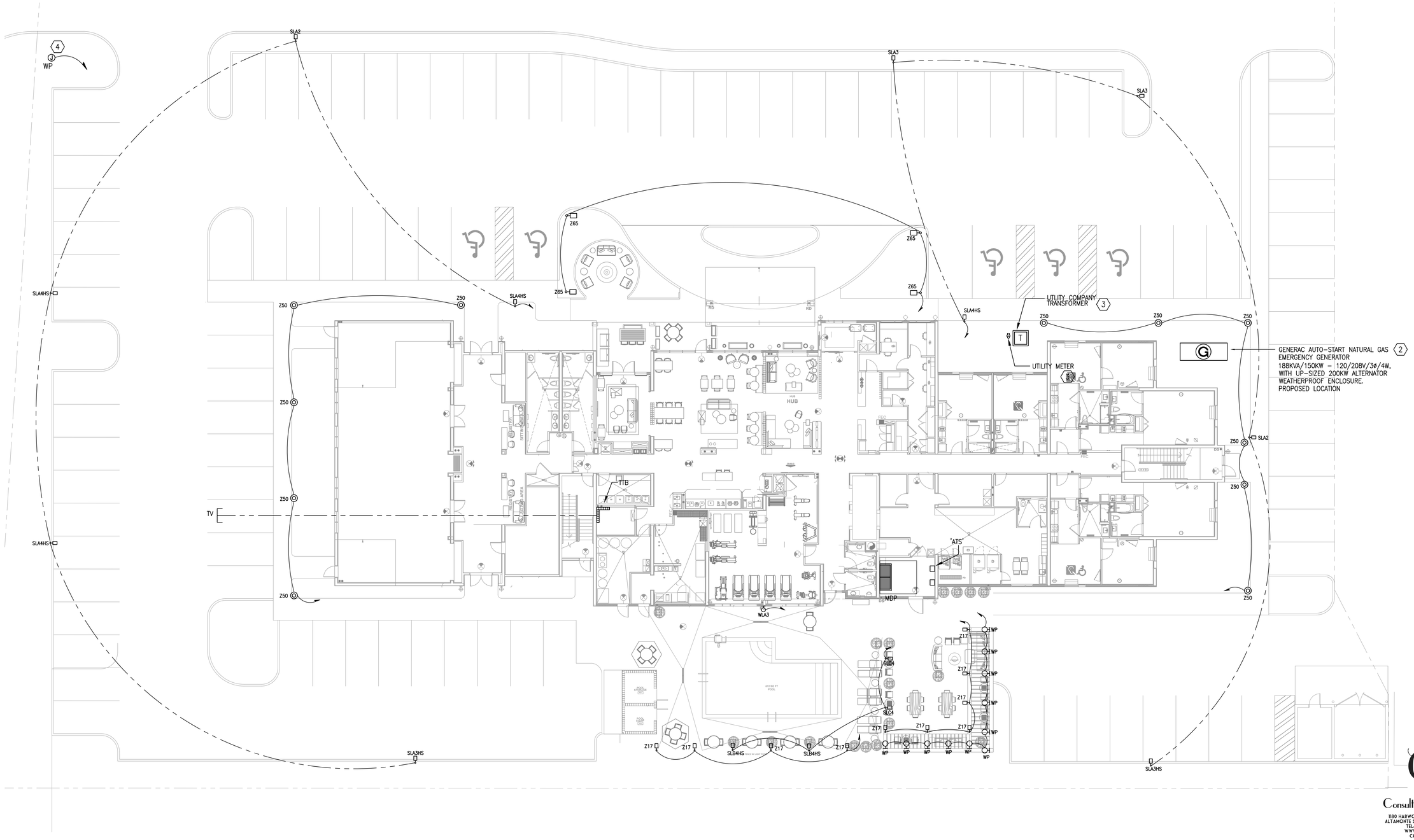
GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.



1 SITE PLAN - ELECTRICAL

SCALE: 3/32" = 1'-0"

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SITE LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP MODEL	FIXTURE WATTS
SLA3HS	LED AREA LIGHT WITH TYPE 3 DIST., INTEGRAL DIMMING, HOUSE-SIDE SHIELD AND 4000K COLOR TEMP. MOUNTED 25'-0" AFG ON 32' DIRECT BURIAL FIBERGLASS POLE	PHILLIPS GARDCO	ECF-S-48L-1A-NW-G2-AR-3-UNV-CM30-HIS-BK	UNV	1	159	LED	159
SLA4HS	LED AREA LIGHT WITH TYPE 4 DIST., INTEGRAL DIMMING, HOUSE-SIDE SHIELD AND 4000K COLOR TEMP. MOUNTED 25'-0" AFG ON 32' DIRECT BURIAL FIBERGLASS POLE	PHILLIPS GARDCO	ECF-S-48L-1A-NW-G2-AR-4-UNV-CM30-HIS-BK	UNV	1	159	LED	159
SLA2	LED AREA LIGHT WITH TYPE 2 DIST., INTEGRAL DIMMING AND AND 4000K COLOR TEMP. MOUNTED 25'-0" AFG ON 32' DIRECT BURIAL FIBERGLASS POLE	PHILLIPS GARDCO	ECF-S-48L-1A-NW-G2-AR-2-UNV-CM30-BK	UNV	1	159	LED	159
SLA3	LED AREA LIGHT WITH TYPE 3 DIST., INTEGRAL DIMMING AND 4000K COLOR TEMP. MOUNTED 25'-0" AFG ON 32' DIRECT BURIAL FIBERGLASS POLE	PHILLIPS GARDCO	ECF-S-48L-1A-NW-G2-AR-3-UNV-CM30-BK	UNV	1	159	LED	159
SLB4HS	LED AREA LIGHT WITH TYPE 4 DIST., INTEGRAL DIMMING, HOUSE-SIDE SHIELD AND 4000K COLOR TEMP. MOUNTED 12'-0" AFG ON 15' DIRECT BURIAL FIBERGLASS POLE	PHILLIPS GARDCO	ECF-S-32L-700-NW-G2-AR-4-UNV-CM30-HIS-BK	UNV	1	73	LED	73
SLC4	DECORATIVE LED LANTERN LIGHT WITH TYPE 4 DIST., INTEGRAL DIMMING, HOUSE-SIDE SHIELD AND 4000K COLOR TEMP. MOUNTED 10'-0" AFG ON DECORATIVE POLE BASE	HADCO	TX1-48-G3-C-H-L-P-A-4-H-730-A-5	UNV	1	80	LED	80
WLA3	LED WALL MOUNTED LIGHT WITH TYPE 3 DIST. AND 4000K COLOR TEMP. MOUNTED 15'-0" AFG	PHILLIPS GARDCO	111L-16L-550-NW-G2-3-UNV-PCB-BK	UNV	1	29	LED	29

NOTES:
DIVISION 16 CONTRACTOR SHALL VERIFY ALL FIXTURE MANUFACTURERS, TYPES, OPTIONS AND FINISHES WITH OWNER/ARCHITECT/INTERIOR DESIGNER PRIOR TO ORDERING.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	2	SLA2	SINGLE	N.A.	0.950	ECF-S-48L-1A-NW-G2-2
	2	SLA3	SINGLE	N.A.	0.950	ECF-S-48L-1A-NW-G2-3
	2	SLA3HS	SINGLE	N.A.	0.950	ECF-S-48L-1A-NW-G2-3-HIS
	4	SLA4HS	SINGLE	N.A.	0.950	ECF-S-48L-1A-NW-G2-4-HIS
	2	SLB4HS	SINGLE	N.A.	0.950	ECF-S-32L-700-NW-G2-4-HIS
	2	SLC4b	Single	N.A.	0.950	TX148CSLPA2A4NNA5N
	1	WLA3	SINGLE	N.A.	0.950	111L-16L-550-NW-G2-3

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking & Drive Area	Illuminance	Fc	2.14	6.9	0.8	2.68	8.63
Patio	Illuminance	Fc	4.24	7.9	1.2	3.53	6.58
Pool Wet Deck	Illuminance	Fc	5.93	10.5	2.8	2.12	3.75
Property Line	Illuminance	Fc	0.30	0.9	0.0	N.A.	N.A.

1 SITE PLAN - PHOTOMETRICS
SCALE: 3/32" = 1'-0"

AA C000606

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SHEET
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OF

PHILIPS
GARDCO
Site & Area
EcoForm
ECF-S small

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

The Philips Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-S-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options: Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
ECF-S	48L	1A	NW-G2	AR	3	UNV	CM30				BK	
ECF-S EcoForm Site and Area, Small	**32L** 32 LEDs (2 modules)	**530** 530mA	**WW-G2** Warm White 3000K, 70CRI Generation 2	**AR** Arm Mount (standard)[1]	**2** Type 2 **2-90** Rotated left 90°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**DD** 0-10V External dimming (Escutcheon)[2] **DCC** Dual Circuit Control[3] **FAWS** Field Adjustable[4] **SW** Interface module for SiteWise[5] **LCI2** Integral module with 40 kHz[6] **LCI4** Integral module with 80 kHz[6] **DynaDimmer:** Automatic Profile Dimming **CS30** Safety 50% Dimming, 7 hours[7] **CM30** Median 50% Dimming, 8 hours[7] **CS50** Economy 50% Dimming, 9 hours[7] **DA50** All Night 50% Dimming[7] **CS30** Safety 30% Dimming, 7 hours[7] **CM30** Median 30% Dimming, 8 hours[7] **CE30** Economy 30% Dimming, 9 hours[7] **DA30** All Night 30% Dimming[7]	**MBSS** Integral with 4ft Lens[8] **BMBT** Integral with 8ft Lens[8] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9]	**PCB** Photocontrol Button[10] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[11] **FP2** Double (208, 240, 480VAC)[11] **FP3** Canadian Double Pull (208, 240, 480VAC)[11] **Surge Protection** (120A standard) **SP1** Increased 20kA	Square Pole Adapter Included in standard product **TB** Terminal Block[12] **RPA** Round Pole Adapter (fits to 3"- 3.5" O.D. poles)[13] **HIS** Internal Housing Side Shield[14]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	**700** 700mA			**3** Type 3 **3-90** Rotated left 90° **3-270** Rotated right 270°							
	64L 64 LEDs (4 modules)	**1A** 1000mA			**4** Type 4 **4-90** Rotated left 90° **4-270** Rotated right 270°							
		1A 1200mA			**5** Type 5 **5W** Type 5W							
		900 900mA			**R48** Retrofit arm mount kit[15]							
		1A 1050mA			**AFR** Auto Front Row **AFR-90** Auto Front Row, Rotated left 90° **AFR-270** Auto Front Row, Rotated right 270°							

1. Available only on **120, 208, 240, and 277** (or **UNV**).
2. Specify Voltage.
3. Not available with **347** or **480** voltage.
4. **AWS** not available with Type 5 or **5W** optics.
5. **DD** is required for **LCI2** and pole mount motion sensor. Dimming leads are supplied through back of luminaire. **Must be ordered separately** (See accessories page)
6. **DCC** and **LCI2/LCI4** not available with any other controls
7. **TB** not available with **DCC**
8. **ECF-SWB** equipped with out-boarded sensor housing when voltage is **HVU** (347-480V)
9. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
10. Not available with **SF** and **WS**. **RPA** provided with black finish standard
11. Limited to a maximum of 4Gridpoints aiming above horizontal
12. **SW** option is not available with any other control options with the exception of **BMBS, BMBT** and **SW-WBKO** motion response options
13. Available only on **120V** and **277V**
14. Not available with **DCC, WBKS, WBKT, SW, LLC** and **CS/CM/CE/DA (DynaDimmer).**
15. Limited to a maximum of 45 degrees aiming above horizontal

1 Fixture Type 'SLA2'

PHILIPS
GARDCO
Site & Area
EcoForm
ECF-S small

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

The Philips Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-S-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options: Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
ECF-S	48L	1A	NW-G2	AR	3	UNV	CM30				BK	
ECF-S EcoForm Site and Area, Small	**32L** 32 LEDs (2 modules)	**530** 530mA	**WW-G2** Warm White 3000K, 70CRI Generation 2	**AR** Arm Mount (standard)[1]	**2** Type 2 **2-90** Rotated left 90°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**DD** 0-10V External dimming (Escutcheon)[2] **DCC** Dual Circuit Control[3] **FAWS** Field Adjustable[4] **SW** Interface module for SiteWise[5] **LCI2** Integral module with 40 kHz[6] **LCI4** Integral module with 80 kHz[6] **DynaDimmer:** Automatic Profile Dimming **CS30** Safety 50% Dimming, 7 hours[7] **CM30** Median 50% Dimming, 8 hours[7] **CS50** Economy 50% Dimming, 9 hours[7] **DA50** All Night 50% Dimming[7] **CS30** Safety 30% Dimming, 7 hours[7] **CM30** Median 30% Dimming, 8 hours[7] **CE30** Economy 30% Dimming, 9 hours[7] **DA30** All Night 30% Dimming[7]	**MBSS** Integral with 4ft Lens[8] **BMBT** Integral with 8ft Lens[8] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9]	**PCB** Photocontrol Button[10] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[11] **FP2** Double (208, 240, 480VAC)[11] **FP3** Canadian Double Pull (208, 240, 480VAC)[11] **Surge Protection** (120A standard) **SP2** Increased 20kA	Square Pole Adapter Included in standard product **TB** Terminal Block[12] **RPA** Round Pole Adapter (fits to 3"- 3.5" O.D. poles)[13] **HIS** Internal Housing Side Shield[14]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	**700** 700mA			**3** Type 3 **3-90** Rotated left 90° **3-270** Rotated right 270°							
	64L 64 LEDs (4 modules)	**1A** 1000mA			**4** Type 4 **4-90** Rotated left 90° **4-270** Rotated right 270°							
		1A 1200mA			**5** Type 5 **5W** Type 5W							
		900 900mA			**R48** Retrofit arm mount kit[15]							
		1A 1050mA			**AFR** Auto Front Row **AFR-90** Auto Front Row, Rotated left 90° **AFR-270** Auto Front Row, Rotated right 270°							

1. Available only on **120, 208, 240, and 277** (or **UNV**).
2. Specify Voltage.
3. Not available with **347** or **480** voltage.
4. **AWS** not available with Type 5 or **5W** optics.
5. **DD** is required for **LCI2** and pole mount motion sensor. Dimming leads are supplied through back of luminaire. **Must be ordered separately** (See accessories page)
6. **DCC** and **LCI2/LCI4** not available with any other controls
7. **TB** not available with **DCC**
8. **ECF-SWB** equipped with out-boarded sensor housing when voltage is **HVU** (347-480V)
9. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
10. Not available with **SF** and **WS**. **RPA** provided with black finish standard
11. Limited to a maximum of 4Gridpoints aiming above horizontal
12. **SW** option is not available with any other control options with the exception of **BMBS, BMBT** and **SW-WBKO** motion response options
13. Available only on **120V** and **277V**
14. Not available with **DCC, WBKS, WBKT, SW, LLC** and **CS/CM/CE/DA (DynaDimmer).**
15. Limited to a maximum of 45 degrees aiming above horizontal

2 Fixture Type 'SLA3'

PHILIPS
GARDCO
Site & Area
EcoForm
ECF-S small

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

The Philips Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-S-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options: Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
ECF-S	48L	1A	NW-G2	AR	3	UNV	CM30				BK	
ECF-S EcoForm Site and Area, Small	**32L** 32 LEDs (2 modules)	**530** 530mA	**WW-G2** Warm White 3000K, 70CRI Generation 2	**AR** Arm Mount (standard)[1]	**2** Type 2 **2-90** Rotated left 90°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**DD** 0-10V External dimming (Escutcheon)[2] **DCC** Dual Circuit Control[3] **FAWS** Field Adjustable[4] **SW** Interface module for SiteWise[5] **LCI2** Integral module with 40 kHz[6] **LCI4** Integral module with 80 kHz[6] **DynaDimmer:** Automatic Profile Dimming **CS30** Safety 50% Dimming, 7 hours[7] **CM30** Median 50% Dimming, 8 hours[7] **CS50** Economy 50% Dimming, 9 hours[7] **DA50** All Night 50% Dimming[7] **CS30** Safety 30% Dimming, 7 hours[7] **CM30** Median 30% Dimming, 8 hours[7] **CE30** Economy 30% Dimming, 9 hours[7] **DA30** All Night 30% Dimming[7]	**MBSS** Integral with 4ft Lens[8] **BMBT** Integral with 8ft Lens[8] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9]	**PCB** Photocontrol Button[10] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[11] **FP2** Double (208, 240, 480VAC)[11] **FP3** Canadian Double Pull (208, 240, 480VAC)[11] **Surge Protection** (120A standard) **SP2** Increased 20kA	Square Pole Adapter Included in standard product **TB** Terminal Block[12] **RPA** Round Pole Adapter (fits to 3"- 3.5" O.D. poles)[13] **HIS** Internal Housing Side Shield[14]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	**700** 700mA			**3** Type 3 **3-90** Rotated left 90° **3-270** Rotated right 270°							
	64L 64 LEDs (4 modules)	**1A** 1000mA			**4** Type 4 **4-90** Rotated left 90° **4-270** Rotated right 270°							
		1A 1200mA			**5** Type 5 **5W** Type 5W							
		900 900mA			**R48** Retrofit arm mount kit[15]							
		1A 1050mA			**AFR** Auto Front Row **AFR-90** Auto Front Row, Rotated left 90° **AFR-270** Auto Front Row, Rotated right 270°							

1. Available only on **120, 208, 240, and 277** (or **UNV**).
2. Specify Voltage.
3. Not available with **347** or **480** voltage.
4. **AWS** not available with Type 5 or **5W** optics.
5. **DD** is required for **LCI2** and pole mount motion sensor. Dimming leads are supplied through back of luminaire. **Must be ordered separately** (See accessories page)
6. **DCC** and **LCI2/LCI4** not available with any other controls
7. **TB** not available with **DCC**
8. **ECF-SWB** equipped with out-boarded sensor housing when voltage is **HVU** (347-480V)
9. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
10. Not available with **SF** and **WS**. **RPA** provided with black finish standard
11. Limited to a maximum of 4Gridpoints aiming above horizontal
12. **SW** option is not available with any other control options with the exception of **BMBS, BMBT** and **SW-WBKO** motion response options
13. Available only on **120V** and **277V**
14. Not available with **DCC, WBKS, WBKT, SW, LLC** and **CS/CM/CE/DA (DynaDimmer).**
15. Limited to a maximum of 45 degrees aiming above horizontal

3 Fixture Type 'SLA3HS'

PHILIPS
GARDCO
Site & Area
EcoForm
ECF-S small

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

The Philips Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-S-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options: Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
ECF-S	48L	1A	NW-G2	AR	3	UNV	CM30				HIS	BK
ECF-S EcoForm Site and Area, Small	**32L** 32 LEDs (2 modules)	**530** 530mA	**WW-G2** Warm White 3000K, 70CRI Generation 2	**AR** Arm Mount (standard)[1]	**2** Type 2 **2-90** Rotated left 90°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**DD** 0-10V External dimming (Escutcheon)[2] **DCC** Dual Circuit Control[3] **FAWS** Field Adjustable[4] **SW** Interface module for SiteWise[5] **LCI2** Integral module with 40 kHz[6] **LCI4** Integral module with 80 kHz[6] **DynaDimmer:** Automatic Profile Dimming **CS30** Safety 50% Dimming, 7 hours[7] **CM30** Median 50% Dimming, 8 hours[7] **CS50** Economy 50% Dimming, 9 hours[7] **DA50** All Night 50% Dimming[7] **CS30** Safety 30% Dimming, 7 hours[7] **CM30** Median 30% Dimming, 8 hours[7] **CE30** Economy 30% Dimming, 9 hours[7] **DA30** All Night 30% Dimming[7]	**MBSS** Integral with 4ft Lens[8] **BMBT** Integral with 8ft Lens[8] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9]	**PCB** Photocontrol Button[10] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[11] **FP2** Double (208, 240, 480VAC)[11] **FP3** Canadian Double Pull (208, 240, 480VAC)[11] **Surge Protection** (120A standard) **SP2** Increased 20kA	Square Pole Adapter Included in standard product **TB** Terminal Block[12] **RPA** Round Pole Adapter (fits to 3"- 3.5" O.D. poles)[13] **HIS** Internal Housing Side Shield[14]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	**700** 700mA			**3** Type 3 **3-90** Rotated left 90° **3-270** Rotated right 270°							
	64L 64 LEDs (4 modules)	**1A** 1000mA			**4** Type 4 **4-90** Rotated left 90° **4-270** Rotated right 270°							
		1A 1200mA			**5** Type 5 **5W** Type 5W							
		900 900mA			**R48** Retrofit arm mount kit[15]							
		1A 1050mA			**AFR** Auto Front Row **AFR-90** Auto Front Row, Rotated left 90° **AFR-270** Auto Front Row, Rotated right 270°							

1. Available only on **120, 208, 240, and 277** (or **UNV**).
2. Specify Voltage.
3. Not available with **347** or **480** voltage.
4. **AWS** not available with Type 5 or **5W** optics.
5. **DD** is required for **LCI2** and pole mount motion sensor. Dimming leads are supplied through back of luminaire. **Must be ordered separately** (See accessories page)
6. **DCC** and **LCI2/LCI4** not available with any other controls
7. **TB** not available with **DCC**
8. **ECF-SWB** equipped with out-boarded sensor housing when voltage is **HVU** (347-480V)
9. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
10. Not available with **SF** and **WS**. **RPA** provided with black finish standard
11. Limited to a maximum of 4Gridpoints aiming above horizontal
12. **SW** option is not available with any other control options with the exception of **BMBS, BMBT** and **SW-WBKO** motion response options
13. Available only on **120V** and **277V**
14. Not available with **DCC, WBKS, WBKT, SW, LLC** and **CS/CM/CE/DA (DynaDimmer).**
15. Limited to a maximum of 45 degrees aiming above horizontal

4 Fixture Type 'SLA4HS'

PHILIPS
GARDCO
Site & Area
EcoForm
ECF-S small

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

The Philips Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings.

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-S-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options: Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
ECF-S	32L			AR		UNV	CM30					
ECF-S EcoForm Site and Area, Small	**32L** 32 LEDs (2 modules)			**AR** Arm Mount (standard)[1]	**2** Type 2 **2-90** Rotated left 90°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**DD** 0-10V External dimming (Escutcheon)[2] **DCC** Dual Circuit Control[3] **FAWS** Field Adjustable[4] **SW** Interface module for SiteWise[5] **LCI2** Integral module with 40 kHz[6] **LCI4** Integral module with 80 kHz[6] **DynaDimmer:** Automatic Profile Dimming **CS30** Safety 50% Dimming, 7 hours[7] **CM30** Median 50% Dimming, 8 hours[7] **CS50** Economy 50% Dimming, 9 hours[7] **DA50** All Night 50% Dimming[7] **CS30** Safety 30% Dimming, 7 hours[7] **CM30** Median 30% Dimming, 8 hours[7] **CE30** Economy 30% Dimming, 9 hours[7] **DA30** All Night 30% Dimming[7]	**MBSS** Integral with 4ft Lens[8] **BMBT** Integral with 8ft Lens[8] **TLBSS** Twist Lock Receptacle 5 Pin **TLBPC** Twist Lock Receptacle w/ Photocell[9]	**PCB** Photocontrol Button[10] **DD** 0-10V Dimming	**Fusing** **FP1** Single (120, 277, 347VAC)[11] **FP2** Double (208, 240, 480VAC)[11] **FP3** Canadian Double Pull (208, 240, 480VAC)[11] **GL** Diffusing Lens **WS** Wall Mounted Box for Surface Conduit	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)				**3** Type 3 **3-90** Rotated left 90° **3-270** Rotated right 270°							
	64L 64 LEDs (4 modules)				**4** Type 4 **4-90** Rotated left 90° **4-270** Rotated right 270°							
					5 Type 5 **5W** Type 5W							
					AFR Auto Front Row **AFR-90** Auto Front Row, Rotated left 90° **AFR-270** Auto Front Row, Rotated right 270°							

1. Available only on **120, 208, 240, and 277** (or **UNV**).
2. Specify Voltage.
3. Not available with **347** or **480** voltage.
4. **AWS** not available with Type 5 or **5W** optics.
5. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
6. **DCC** and **LCI2/LCI4** not available with any other controls
7. **TB** not available with **DCC**
8. **ECF-SWB** equipped with out-boarded sensor housing when voltage is **HVU** (347-480V)
9. **DD** is required for **LCI2** and pole mount motion sensor. Mounts to a 4" round pole with adapter included for square poles
10. Not available with **SF** and **WS**. **RPA** provided with black finish standard
11. Limited to a maximum of 4Gridpoints aiming above horizontal
12. **SW** option is not available with any other control options with the exception of **BMBS, BMBT** and **SW-WBKO** motion response options
13. Available only on **120V** and **277V**
14. Not available with **DCC, WBKS, WBKT, SW, LLC** and **CS/CM/CE/DA (DynaDimmer).**
15. Limited to a maximum of 45 degrees aiming above horizontal

5 Fixture Type 'SLA2'

PHILIPS
GARDCO
Wall Mount
LED mini sconce 111L

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

Philips Gardco 111 LED mini sconce luminaires are compact in size, perfect for low mounting height wall mount applications. 111 LED luminaires are designed to integrate naturally to wall surfaces. 111 LED luminaires are available with three (3) different distribution patterns, providing full cutoff performance (in the normal downlight position) and featuring LED arrays. Luminaires provide performance excellence and advanced Philips Gardco LED thermal management technology. High performance Class 1 LED systems offer potential energy savings of 50 % or more compared to HID systems. 111 LED luminaires are also available with 0-10V Dimming.

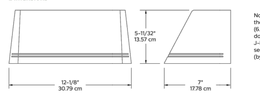
Ordering guide

example: 111L-16L-350-CW-G2-2-UNV-DD-BK

Prefix	No. of LEDs	Drive Current	Color/Generation	Distribution	Voltage	Controls	Electrical/Luminaire	Finish
111L	16	550	NW-G2	3	UNV	PCB		BK
111L Trapezoidal Wedge LED	**16L** 16 LED module	**350** 350mA **550** 550mA **750** 750mA	**CW-G2** Cool White 5700K, 70 CRI generation 2 **NW-G3** Neutral White 4000K, 70 CRI generation 2 **WW-G3** Warm White 3000K, 70 CRI generation 2	**2** Type II Wide Throw Optic, with maximized lateral throw **3** Type III Preferred Wide Throw Optic with improved forward throw **4** Type IV Maximized forward throw optic	**UNV** 120-277V 50hz/60hz **120** 120V **208** 208V **240** 240V **277** 277V	**PCB** Photocontrol Button[1] **DD** 0-10V Dimming	**F1** Single fusing (120, 277VAC) **F2** Double fusing (208, 240VAC) **F3** Canadian double pull fusing (208, 240VAC) **GL** Diffusing Lens **WS** Wall Mounted Box for Surface Conduit	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Grey **MGY** Medium Grey **Customer specified** **RAL** Specify optional color or RAL, ex: RAL7016 **CC** Custom color (Must supply color chip for required factory quote)

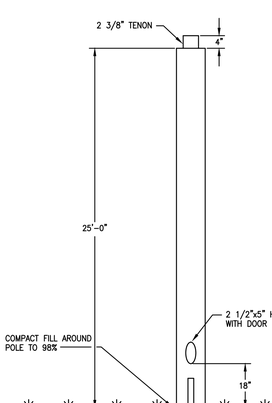
1. Provide specific input voltage.

Dimensions

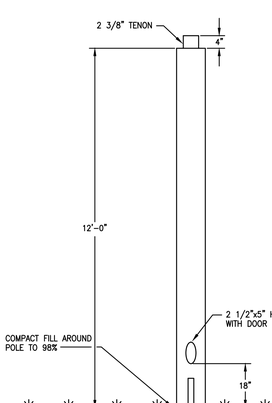


Note: Mounting plate center is located in the center of the luminaire width and 2.38" (6.03cm) above the luminaire bottom (lens down position). Splices must be made in the J-box (by others). Mounting plate must be secured by max. 1/4" (6.4cm) diameter bolts (by others) structurally to the wall.

6 Fixture Type 'WLA3'



7 25FT MOUNTING HEIGHT POLE DETAIL



8 12FT MOUNTING HEIGHT POLE DETAIL

J&C
Consulting Engineers
1180 HARWOOD AVE, SUITE 3000
ALTAMONTE SPRINGS, FLORIDA 32714
TEL: 321.972.4466
WWW.JLCENG.COM
CA NO. 28730

JLC 21.0042.00

LAKE I. SUDOW LICENSE NUMBER 69401 STATE OF FLORIDA PROFESSIONAL ENGINEER

AA C0006606
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ARCHITECTS AND PLANNERS
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PHONE 407.647.6707 FAX 407.647.2082

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BY MARRIOTT

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

JOB NO.

DATE

SHEET
E1.4
OF

REFERENCE NOTES: ⓧ

1. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.
2. PROVIDE 120V RECEPTACLE AND TELEVISION OUTLET FOR WALL MOUNTED TELEVISION. COORDINATE MOUNTING HEIGHT AND LOCATION WITH OWNER/EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
3. CONNECT 120V RECEPTACLE CIRCUIT IN OFFICE SPACE VIA WATTSTOPPER PLUG LOAD POWER PACK #BZ-200 (OR APPROVED SUBSTITUTION) FOR AUTOMATIC CONTROL OF RECEPTACLES. RECEPTACLES SHALL BE SPLIT WIRED SO THAT THE POWER PACK SHALL AUTOMATICALLY "TURN OFF" THE TOP OUTLET ON EACH RECEPTACLE IF SPACE IS UNOCCUPIED FOR 20 MINUTES AND THE BOTTOM OUTLET SHALL BE CONSTANT HOT. OUTLETS SHALL BE VISUALLY MARKED AS REQUIRED TO DIFFERENTIATE CONTROLLED OUTLETS FROM UNCONTROLLED OUTLETS. RECEPTACLE POWER PACKS SHALL BE CONTROLLED VIA LOW VOLTAGE VACANCY SENSORS AS SHOWN ON LIGHTING PLAN. PROVIDE ALL CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED TO INTERCONNECT RECEPTACLE POWER PACKS AND LIGHTING POWER PACKS. INSTALLATION SHALL COMPLY WITH FLORIDA BUILDING CODE SECTION C405.7.1, 2014 EDITION AND ASHRAE STANDARD 90.1.
4. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
5. PROVIDE FLOOR BOX WITH 120V DUPLEX RECEPTACLE ON DEDICATED CIRCUIT FOR CONNECTION OF FITNESS EQUIPMENT. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH FITNESS EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE ALL DEVICES, DIVIDERS, COVERPLATES, ETC. FOR A COMPLETE INSTALLATION.
6. 120VOLT CONNECTION TO FIRE/SMOKE DAMPER, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 15.
7. CONNECT 120V FRACTIONAL HORSEPOWER EXHAUST FAN TO LOCAL LIGHTING CIRCUIT. FAN TO OPERATE SIMULTANEOUSLY WITH ROOM LIGHTS.
8. PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO FACP AS REQUIRED BY 2017 6TH EDITION FBC, 2017 FFPC, AND 2015 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
9. PROVIDE 120V CONNECTION FOR AUTOMATIC DOOR OPENING MOTOR. PROVIDE CONDUIT AND WIRING FOR ASSOCIATED PUSHBUTTON. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
10. 2#12, 1#12GND. IN 3/4"C. TO RESPECTIVE OUTDOOR MINI-SPLIT UNIT (MCU), COORDINATE EXACT REQUIREMENTS WITH DIVISION 15 AS REQUIRED.
11. PROVIDE 120V CONNECTION FOR GAS GRILL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
12. PROVIDE 120V CONNECTION FOR GAS FIREPIT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
13. CARD READER FOR OWNER SELECTED ACCESS CONTROL SYSTEM. PROVIDE CONDUIT PATH/RUN (CONCEALED) WHERE REQUIRED TO ACCOMMODATE LOW VOLTAGE WIRING. COORDINATE EXACT REQUIREMENTS WITH OWNER/SYSTEM PROVIDER PRIOR TO ROUGH-IN.
14. COORDINATE EXACT LOCATION(S) OF EXTERIOR WEATHERPROOF HORN-STROBE WITH LOCAL FIRE DEPARTMENT AHJ.

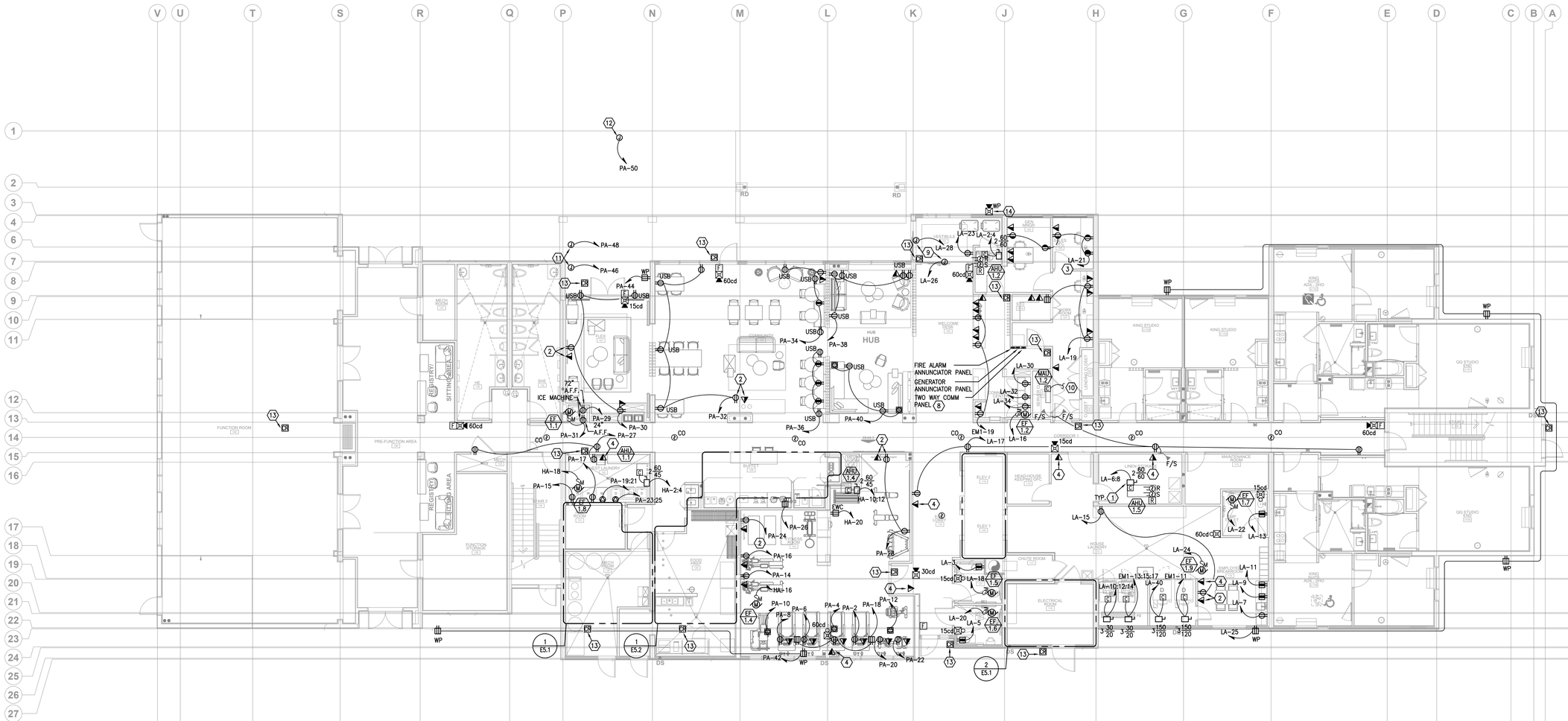
GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.



1 FIRST FLOOR PLAN - POWER & SYSTEMS

SCALE: 1/8" = 1'-0"

Consulting Engineers
1180 HARWOOD AVE, SUITE 3000
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LAKE I SUDA LICENSE 66280 STATE OF FLORIDA PROFESSIONAL ENGINEER

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LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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OF

REFERENCE NOTES: ⓧ

1. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
2. 120VOLT CONNECTION TO FIRE/SMOKE DAMPER, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 15.
3. PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO MAIN BASE STATION AS REQUIRED BY 2017 6TH EDITION FBC, 2017 FFPC, AND 2015 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
4. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

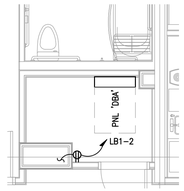
E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

F. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

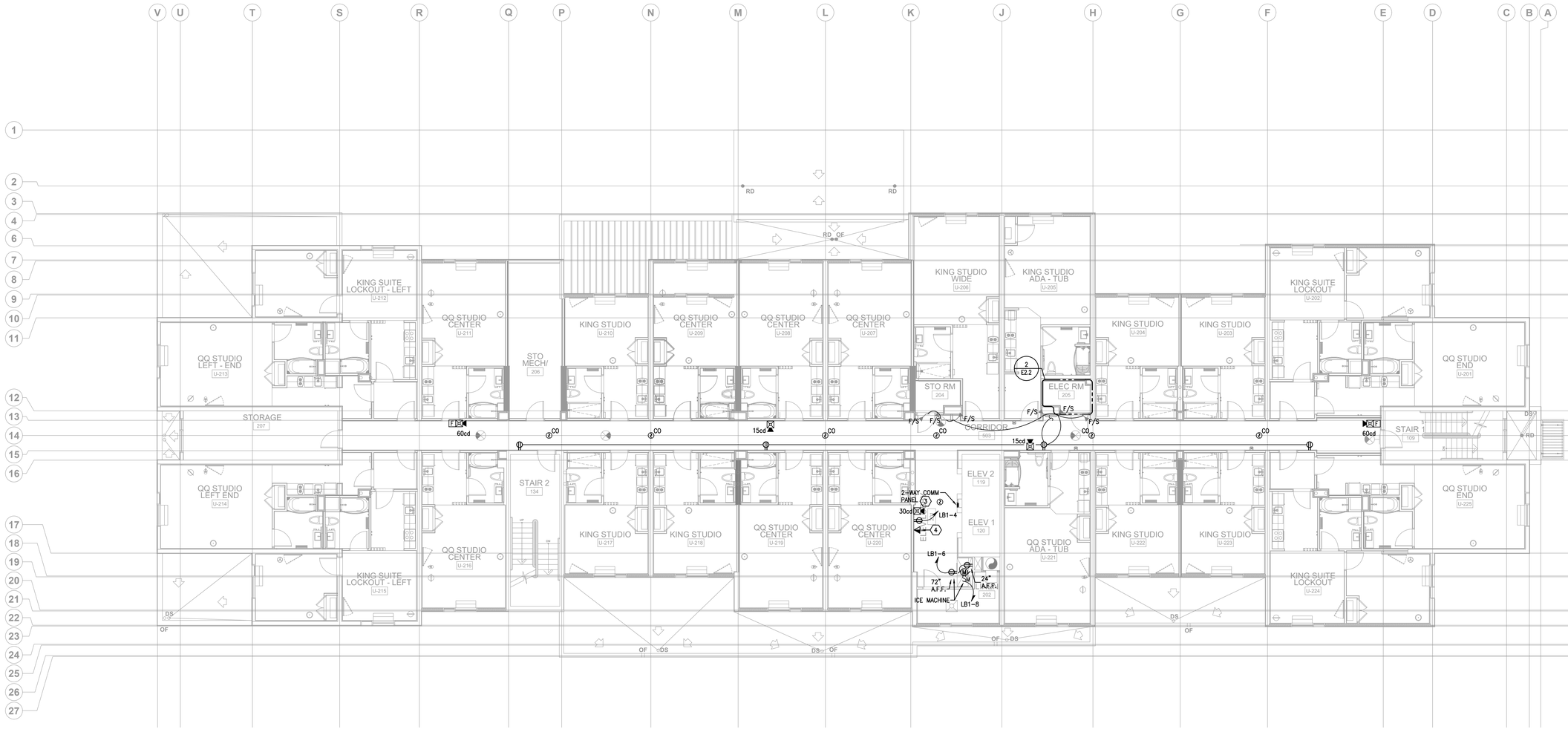
G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

I. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.



2 ENLARGED PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



1 SECOND FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

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LAKE L SUDDUTH — LICENSE NO. 69021 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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SHEET	E2.2
OF	

REFERENCE NOTES: ⓧ

1. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
2. 120VOLT CONNECTION TO FIRE/SMOKE DAMPER, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 15.
3. PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO MAIN BASE STATION AS REQUIRED BY 2017 6TH EDITION FBC, 2017 FFPC, AND 2015 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
4. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
5. 2#10, 1#10GND. IN 3/4"C. TO RESPECTIVE OUTDOOR MINI-SPLIT UNIT (MCU), COORDINATE EXACT REQUIREMENTS WITH DIVISION 15 AS REQUIRED.

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

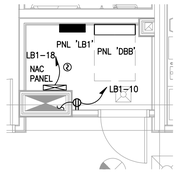
E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

F. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

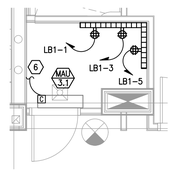
G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

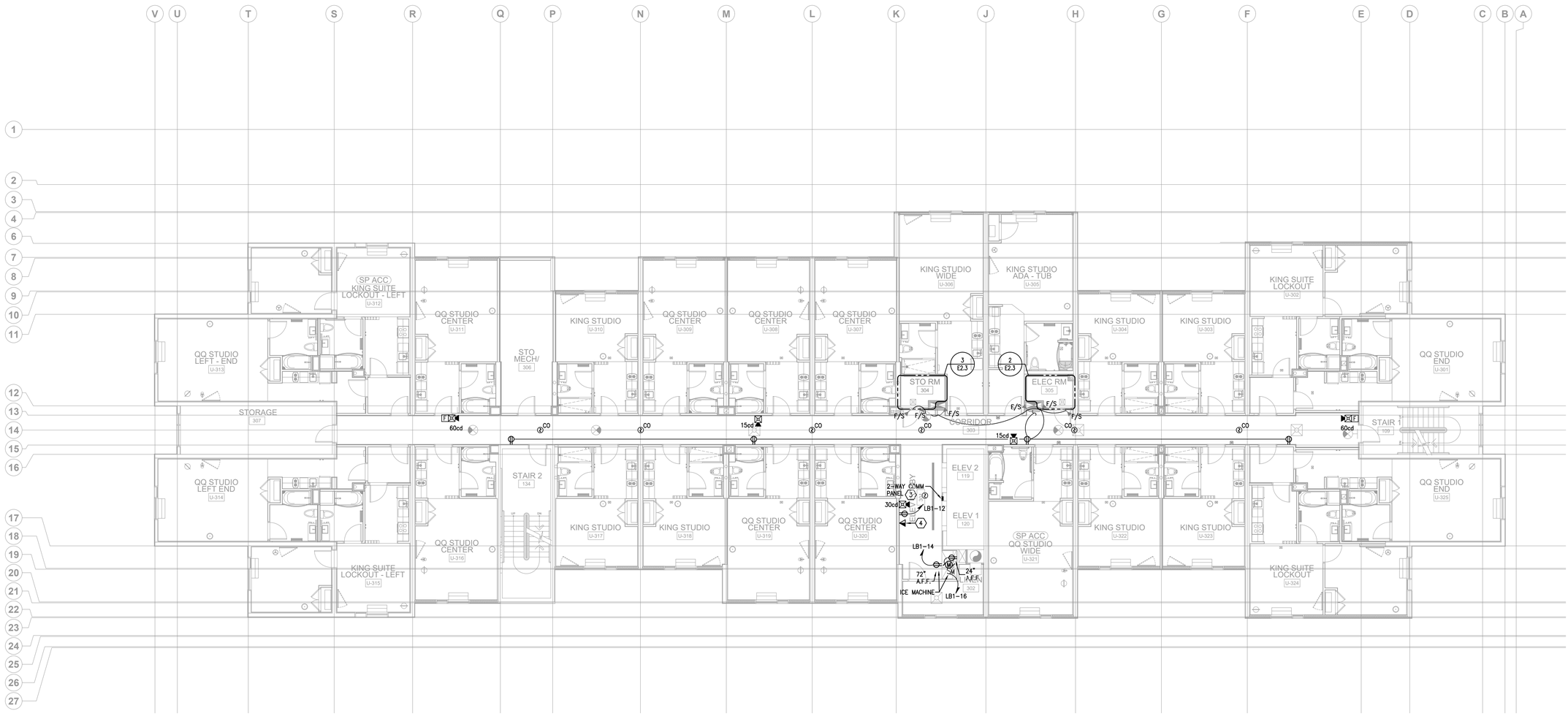
I. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.



2 ENLARGED PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



3 ENLARGED PLAN - PBX ROOM
SCALE: 1/4" = 1'-0"



1 THIRD FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

AA C000606

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LAKE I. SUDAK LICENSE 66401 STATE OF FLORIDA PROFESSIONAL ENGINEER

TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION
JOB NO.
DATE
SHEET
E2.3
OF

REFERENCE NOTES: ⓧ

1. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
2. 120VOLT CONNECTION TO FIRE/SMOKE DAMPER, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 15.
3. PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO MAIN BASE STATION AS REQUIRED BY 2017 6TH EDITION FBC, 2017 FFPC, AND 2015 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
4. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

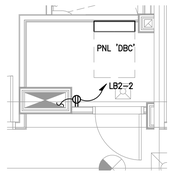
E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

F. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

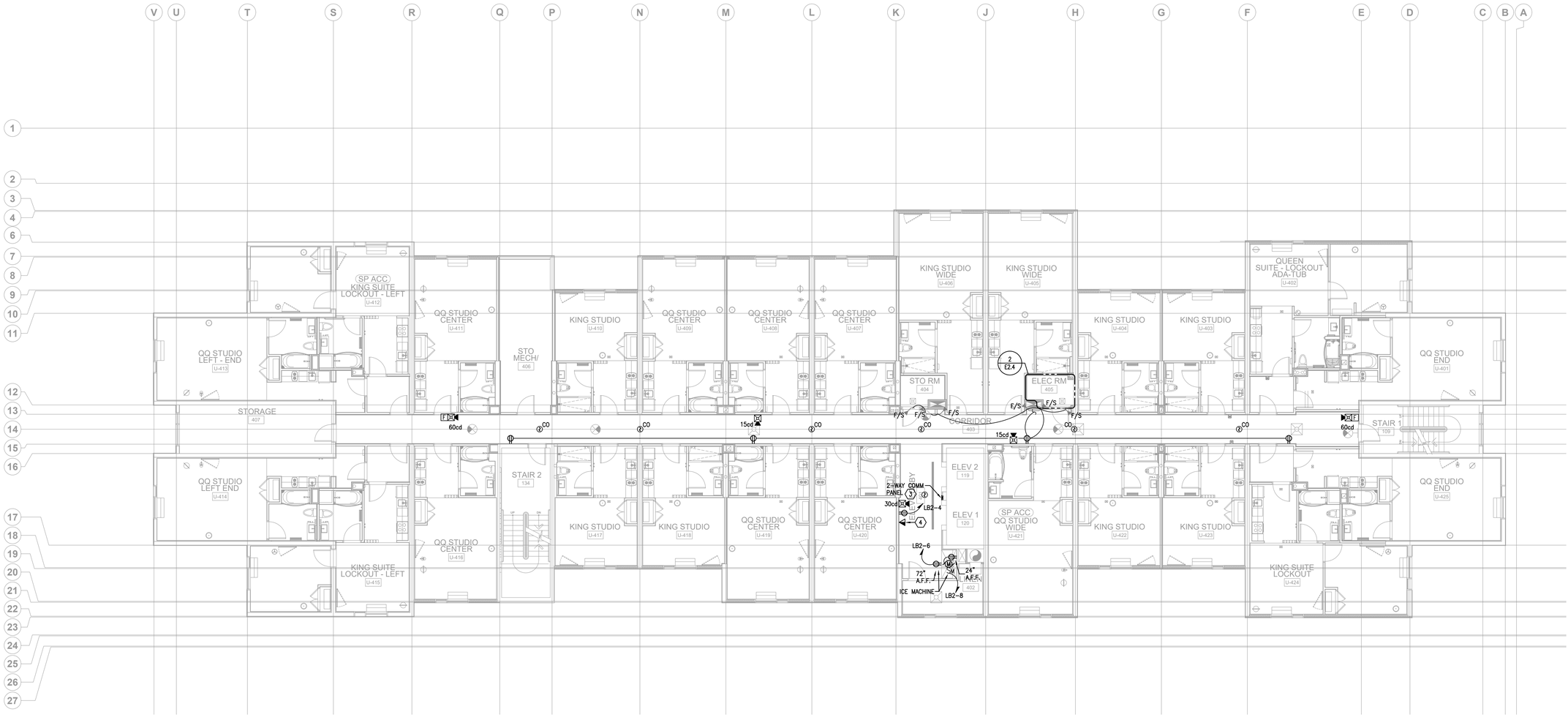
G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

I. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.



2 ENLARGED PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



1 FOURTH FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

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REVISION
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OF

REFERENCE NOTES: ⓧ

1. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).
2. 120VOLT CONNECTION TO FIRE/SMOKE DAMPER, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 15.
3. PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO MAIN BASE STATION AS REQUIRED BY 2017 6TH EDITION FBC, 2017 FFPC, AND 2015 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
4. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

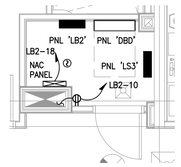
E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

F. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

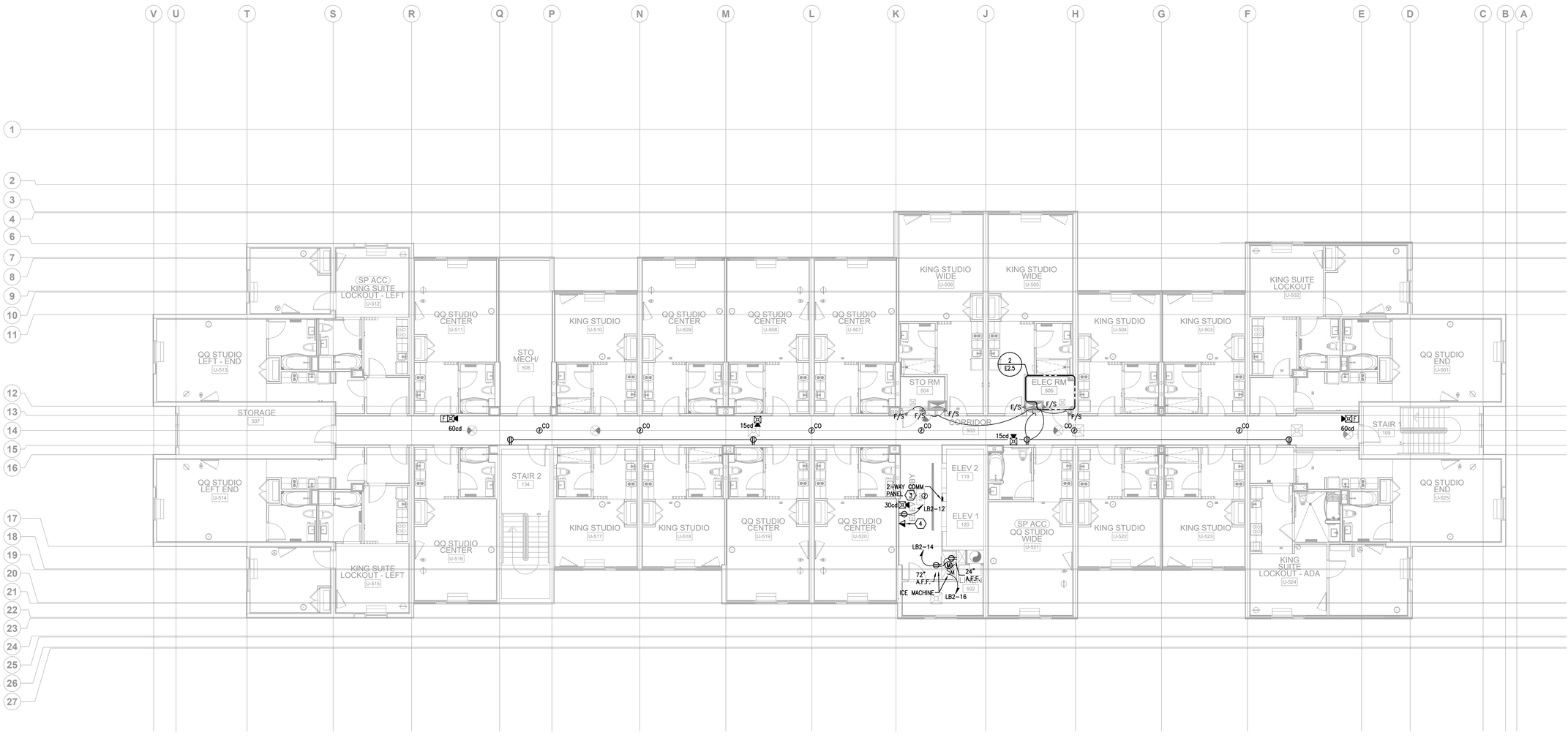
G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

I. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.



2 ENLARGED PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



1 FIFTH FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

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JLC 21.0042.00

LAKE L. SUDANO — LICENSE NUMBER 85221 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

REVISION

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OF

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

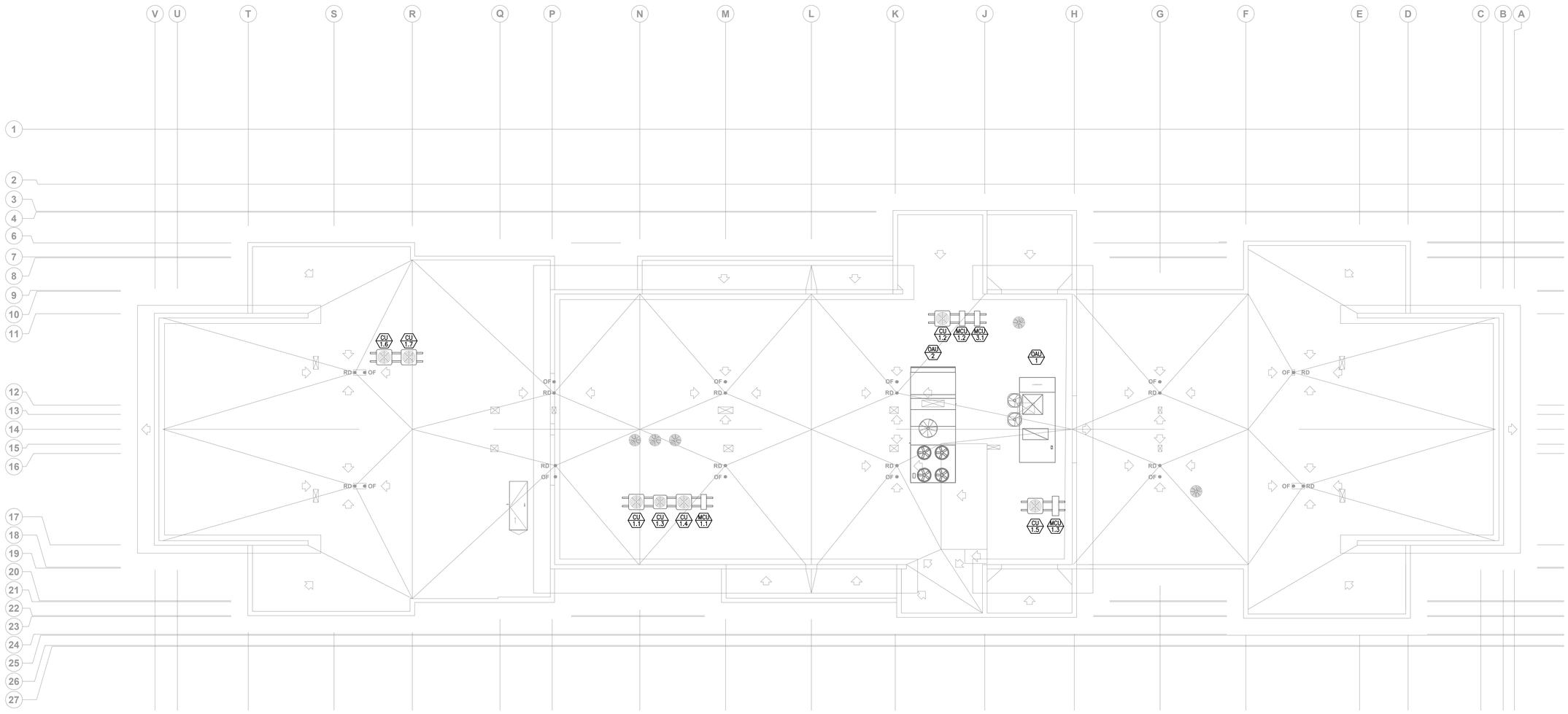
B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: ⟨X⟩

⟨1⟩ ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.



1 ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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OF

REFERENCE NOTES: ⓧ

1. CONNECT EXTERIOR LIGHTING TO LIGHTING CONTRACTOR "LC1" FOR TIME OF DAY LIGHTING CONTROL.
2. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO OVERRIDE WALL SWITCH AND TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. PROVIDE ADDITIONAL SENSORS, POWER PACKS, RELAYS, ETC. AS REQUIRED FOR COMPLETE COVERAGE OF SPACE AS RECOMMENDED BY MANUFACTURER.
3. PROVIDE WALL MOUNTED OCCUPANCY SENSOR (WITH VACANCY OPTION) TO TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. SENSOR SHALL BE AUTOMATIC OFF, MANUAL ON.
4. COORDINATE EXACT LOCATION OF LED STRIP LIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

GENERAL NOTES:

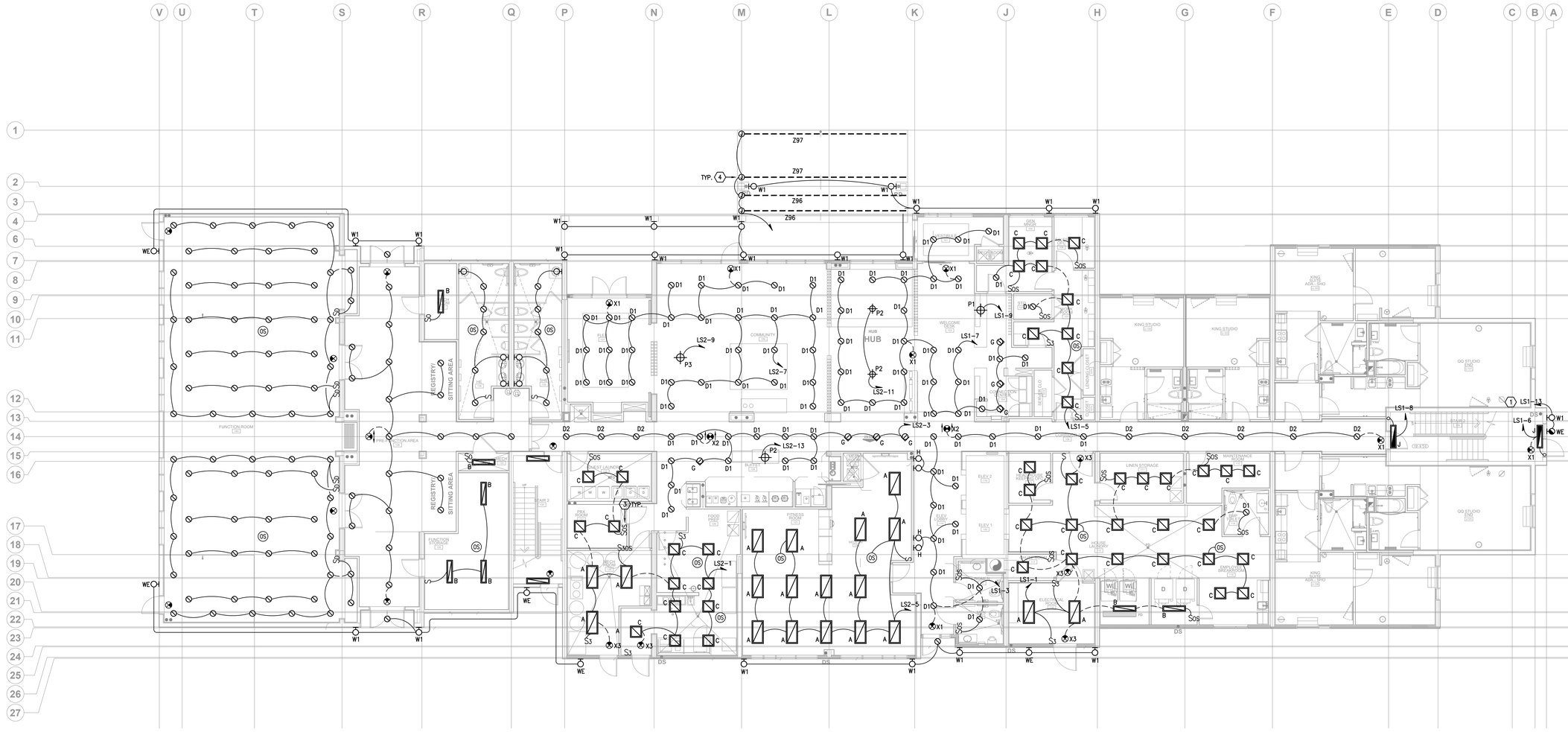
A. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND ORIENTATIONS.

B. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR ADDITIONAL LIGHTING FIXTURE MOUNTING DETAILS AND INFORMATION.

C. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.

D. VERIFY ALL MOUNTING HEIGHTS AND PENDANT LENGTHS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING FIXTURES.

E. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.



1 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

AA C000606

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JLC 21.0042.00

LAKE L SUDANO LICENSE NO. 66980 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISION

JOB NO.

DATE

SHEET
E3.1

OF

REFERENCE NOTES: ⓧ

(1) PROVIDE WALL MOUNTED OCCUPANCY SENSOR (WITH VACANCY OPTION) TO TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. SENSOR SHALL BE AUTOMATIC OFF, MANUAL ON.

GENERAL NOTES:

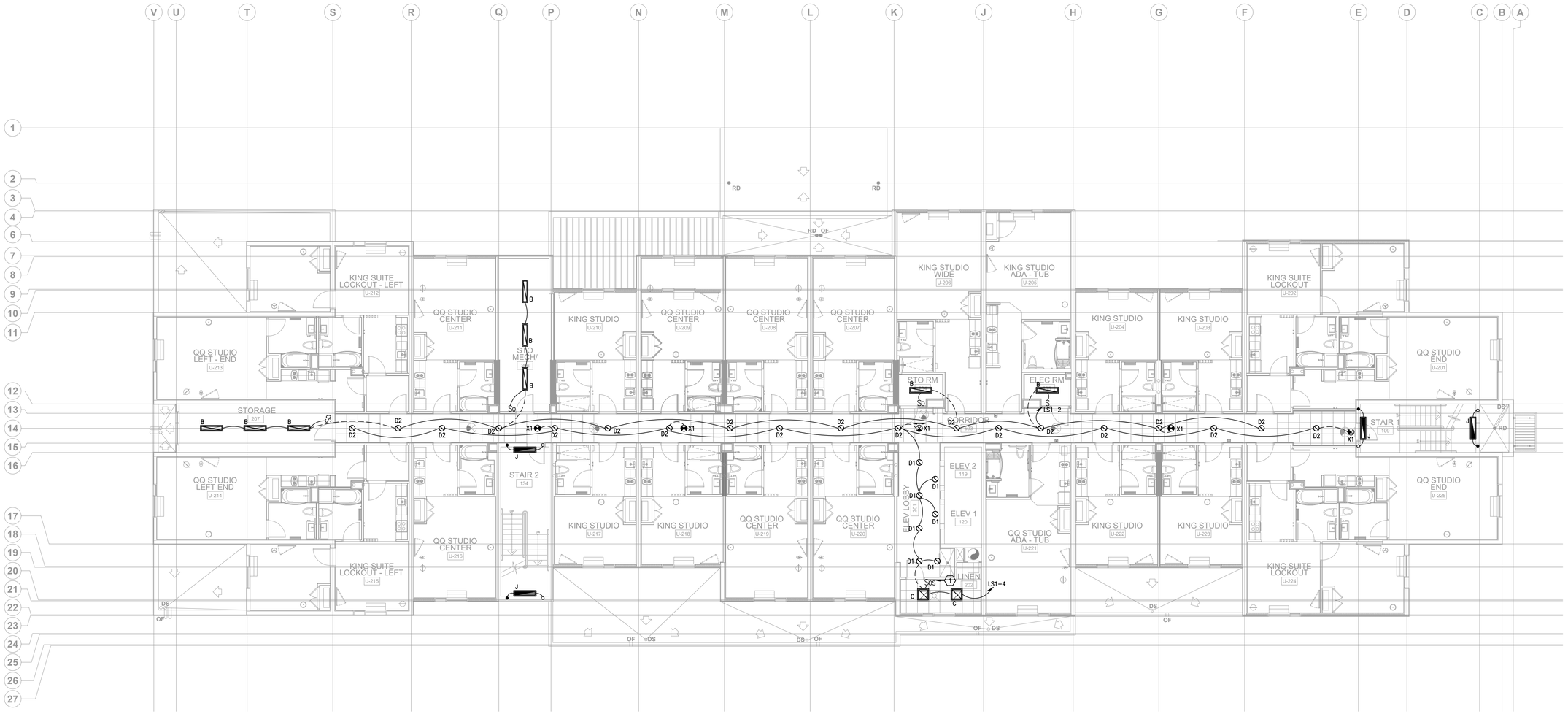
A. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND ORIENTATIONS.

B. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR ADDITIONAL LIGHTING FIXTURE MOUNTING DETAILS AND INFORMATION.

C. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.

D. VERIFY ALL MOUNTING HEIGHTS AND PENDANT LENGTHS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING FIXTURES.

E. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.



1 SECOND FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

AA C000606

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LAKE L SUDANO — LICENSE NO. 69021 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

REVISION
JOB NO.
DATE
SHEET
E3.2
OF

REFERENCE NOTES: ⓧ

1. PROVIDE WALL MOUNTED OCCUPANCY SENSOR (WITH VACANCY OPTION) TO TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. SENSOR SHALL BE AUTOMATIC OFF, MANUAL ON.

GENERAL NOTES:

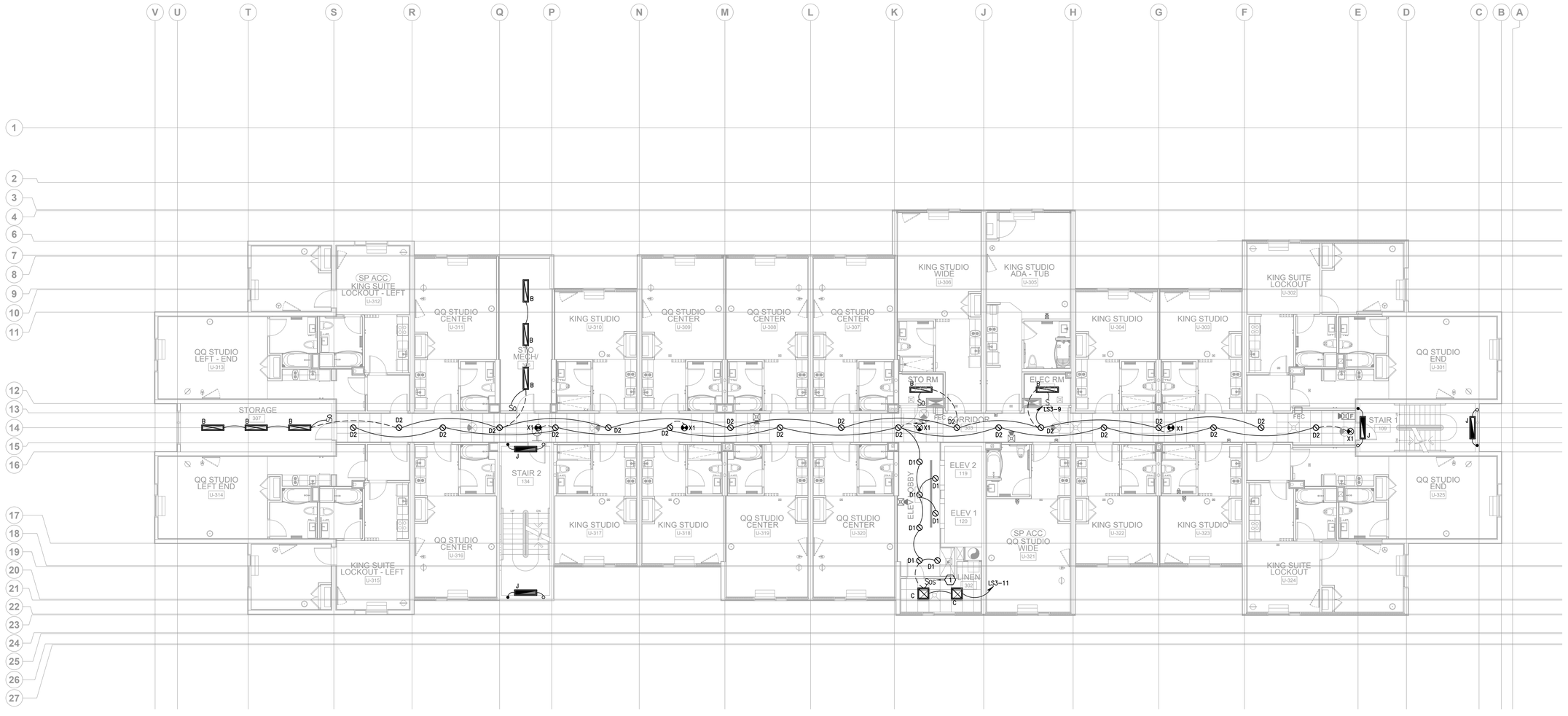
A. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND ORIENTATIONS.

B. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR ADDITIONAL LIGHTING FIXTURE MOUNTING DETAILS AND INFORMATION.

C. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.

D. VERIFY ALL MOUNTING HEIGHTS AND PENDANT LENGTHS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING FIXTURES.

E. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.



1 THIRD FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

AA C000606

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LAKE I. SUDANO LICENSE NO. 66601 STATE OF FLORIDA PROFESSIONAL ENGINEER

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JOB NO.
DATE
SHEET
E3.3
OF

REFERENCE NOTES: ⓧ

1. PROVIDE WALL MOUNTED OCCUPANCY SENSOR (WITH VACANCY OPTION) TO TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. SENSOR SHALL BE AUTOMATIC OFF, MANUAL ON.

GENERAL NOTES:

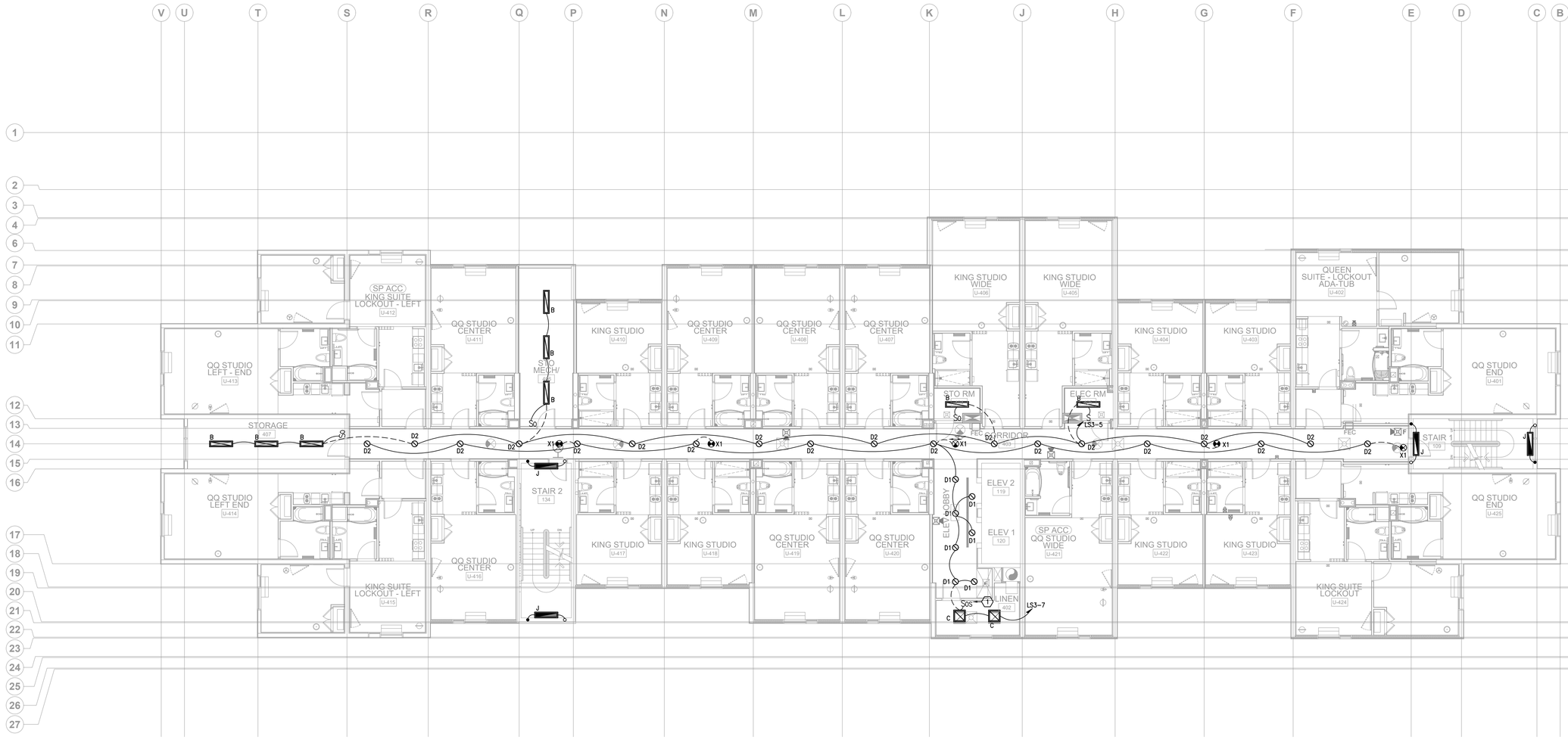
A. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND ORIENTATIONS.

B. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR ADDITIONAL LIGHTING FIXTURE MOUNTING DETAILS AND INFORMATION.

C. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.

D. VERIFY ALL MOUNTING HEIGHTS AND PENDANT LENGTHS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING FIXTURES.

E. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.



1 FOURTH FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

AA C000606

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NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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DATE
SHEET
E3.4
OF

REFERENCE NOTES: ⓧ

1. PROVIDE WALL MOUNTED OCCUPANCY SENSOR (WITH VACANCY OPTION) TO TURN OFF ROOM LIGHTS AND/OR CEILING FANS IN SPACE IF UNOCCUPIED FOR MORE THAN 30 MINUTES PER FBC. SENSOR SHALL BE AUTOMATIC OFF, MANUAL ON.

GENERAL NOTES:

A. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND ORIENTATIONS.

B. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR ADDITIONAL LIGHTING FIXTURE MOUNTING DETAILS AND INFORMATION.

C. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.

D. VERIFY ALL MOUNTING HEIGHTS AND PENDANT LENGTHS WITH ARCHITECT AND ENGINEER PRIOR TO ORDERING FIXTURES.

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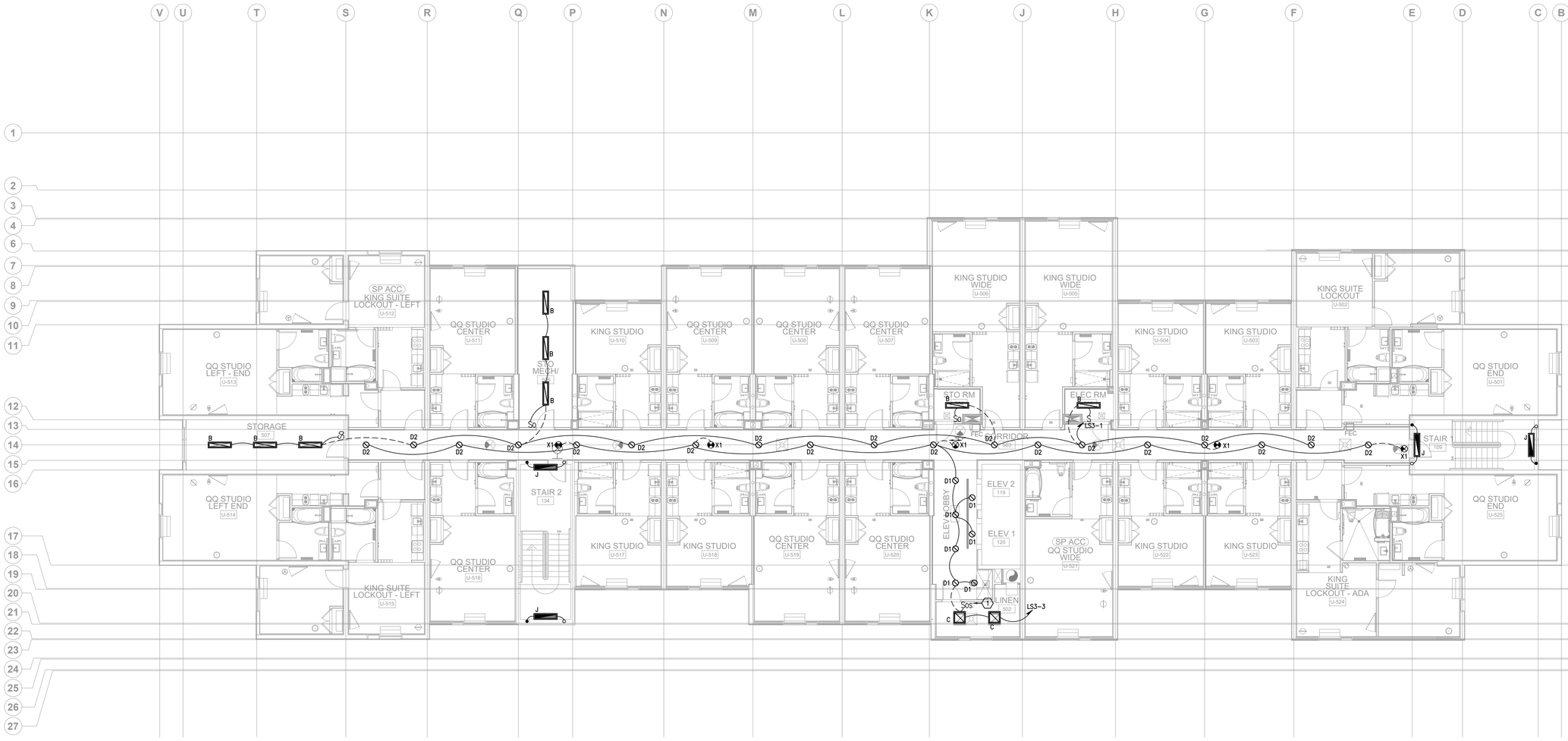

1 FIFTH FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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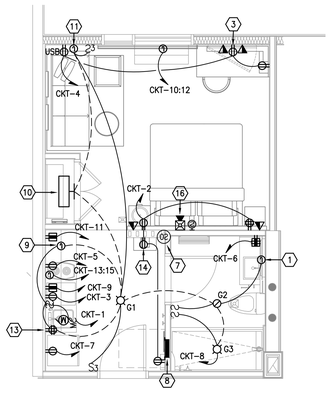
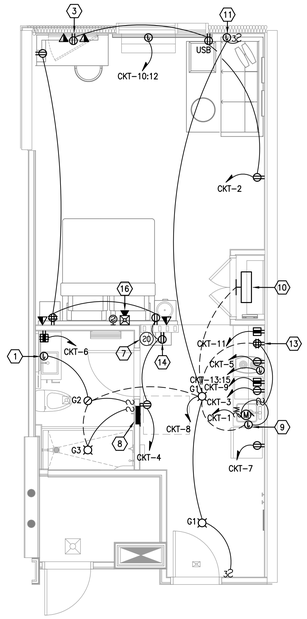
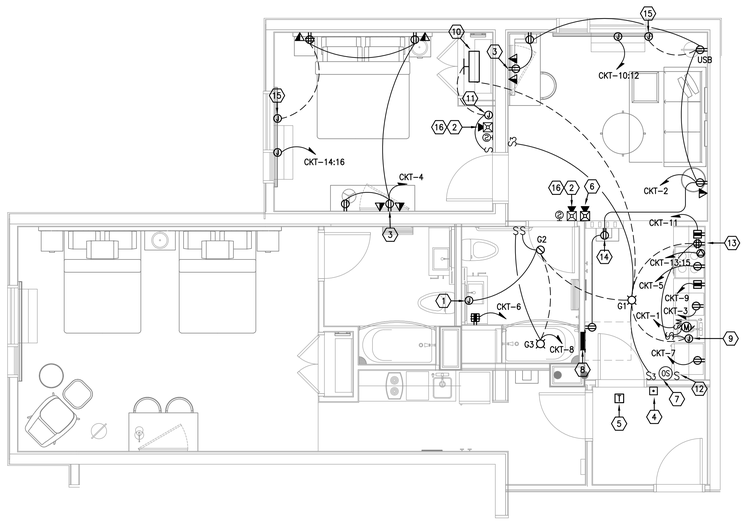


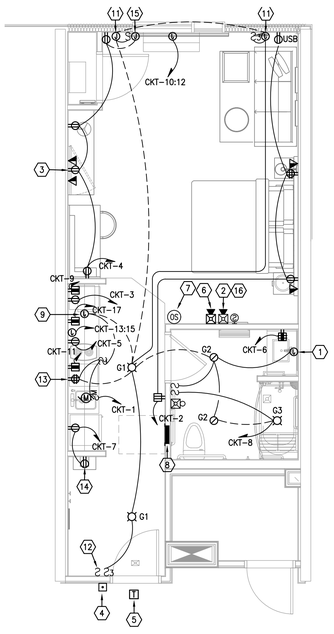
1 TYPICAL KING STUDIO
ENLARGED UNIT FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



2 TYPICAL KING STUDIO WIDE
ENLARGED UNIT FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



4 TYPICAL SP-ACC-KING SUITE LOCKOUT
ENLARGED UNIT FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



3 TYPICAL KING STUDIO ADA TUB
ENLARGED UNIT FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. ALL NON-LOCKING, 125V, 15A AND 20A RECEPTACLES INSTALLED IN GUESTROOM UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.

D. 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN GUESTROOM UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.

E. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

F. CONTRACTOR SHALL INSTALL RECEPTACLES SUCH THAT RECEPTACLES IN WALLS BETWEEN GUESTROOMS ARE OFFSET HORIZONTALLY BY A MINIMUM OF 6 INCHES.

G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.

I. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

J. SMOKE ALARMS IN DWELLING UNITS SHALL BE SHALL BE LOW-VOLTAGE, PHOTOELECTRIC SMOKE DETECTORS WITH SOUNDER BASES THAT ARE BOTH POWERED AND MONITORED BY THE FACP PER MARRIOTT'S MODULE 14. AND SHALL BE INSTALLED WITH CLEARANCES IN COMPLIANCE WITH NFPA 72.

K. AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL HAVE A SOUND LEVEL OF AT LEAST 85 dBA AT 10 FEET AND 75 dBA AT THE PILLOW AND BE OF A LOW FREQUENCY, SQUARE WAVE SIGNAL 520 HZ (+/-10%), IN ACCORDANCE WITH NFPA 72 SECTIONS 18.4.5.1-18.4.5.3.

L. BUILDING FIRE ALARM SYSTEM NOTIFICATION SHALL INCLUDE BE LOW FREQUENCY HORNS IN STANDARD GUESTROOM UNITS AND LOW FREQUENCY HORN/STROBES IN HEARING IMPAIRED (H.I.) GUESTROOMS UNITS. COORDINATE H.I. LOCATIONS WITH ARCHITECTURAL PLANS.

M. VISUAL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL HAVE AN INTENSITY LEVEL OF:

- 110 CD WHERE TOP OF LENS IS INSTALLED GREATER THAN OR EQUAL TO 24 INCHES FROM THE CEILING
- 177 CD WHERE TOP OF LENS IS INSTALLED LESS THAN 24 INCHES FROM THE CEILING

AND SHALL NOT BE FURTHER THAN 16 FEET FROM THE PILLOW, IN ACCORDANCE WITH NFPA 72 SECTIONS 18.5.5.7.1-18.5.5.7.3.

REFERENCE NOTES: (X)

(1) INSTALL JUNCTION BOX FOR LIT VANITY MIRROR AT A HEIGHT PER OWNER'S SPECIFICATIONS.

(2) PROVIDE FIRE ALARM VISUAL/AUDIBLE NOTIFICATION APPLIANCE IN PLACE OF AUDIBLE ONLY DEVICE AT HEARING-IMPAIRED GUEST ROOMS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF HEARING-IMPAIRED ROOMS.

(3) VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT ELEVATIONS FOR T.V.

(4) PROVIDE DOORBELL IN HEARING IMPAIRED ROOMS ONLY. REFER TO ARCHITECTUAL DRAWINGS. PROVIDE A SURFACE MOUNT LOW VOLTAGE ILLUMINATED DOOR BELL EQUAL TO EDWARDS #630L. COLOR SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 48" AFF.

(5) PROVIDE A 120V TO 24V TRANSFORMER FOR DOORBELL & HORN/STROBE. TRANSFORMER EQUAL TO EDWARDS #592. MOUNT ABOVE CORRIDOR CEILING WHERE ACCESSIBLE.

(6) PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL. DEVICE TO BE EQUAL TO EDWARDS #867STR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.

(7) PROVIDE DIGITAL TEHRMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FOR LIGHTING CONTROLS AND PROPERTY MANAGEMENT SYSTEM INTEGRATION. COORDINATE WITH MARRIOTT MECHANICAL STANDARD 15.A FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN COORDINATE LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

(8) PROVIDE FLUSH MOUNTED STUDIO PANEL. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

(9) PROVIDE JUNCTION BOX FOR MILLWORK LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MILLWORK PROVIDER PRIOR TO ROUGH-IN.

(10) PROVIDE LIGHT FIXTURE AND ASSOCIATED HARDWARE FOR CLOSET LIGHT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(11) PROVIDE JUNCTION BOX FOR WALL MOUNTED LIGHT FIXTURE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(12) INSTALL DISCONNECT SWITCH FOR DOORBELL IN HEARING IMPAIRED AND ACCESSIBLE GUESTROOMS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

(13) PROVIDE QUAD RECEPTACLE FOR MILLWORK LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MILLWORK PROVIDER PRIOR TO ROUGH-IN.

(14) INSTALL RECEPTACLE FOR PHONE CHARGING AREA. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

(15) PROVIDE JUNCTION BOX AND ALL NECESSARY WIRING/SWITCHING FOR MOTORIZED WINDOW SHEER AND SHADES. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(16) ALL SLEEPING ROOMS REQUIRE A SOUND LEVEL OF AT LEAST 75dBA AT THE PILLOW LEVEL, IN ADDITION TO THE LOW FREQUENCY SQUARE WAVE OR EQUIVALENT 520HZ +\- 10%. PROVIDE AND INSTALL AS REQUIRED PER NFPA 72 (2013) 18.4.5.1-18.4.5.3

AA C000606

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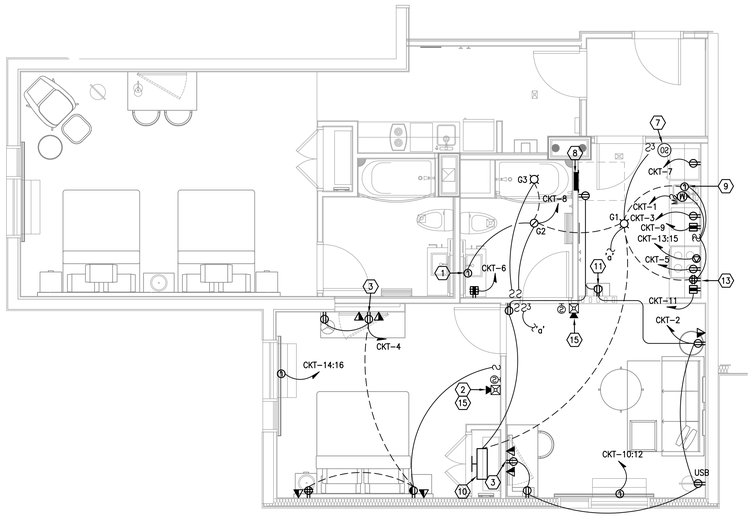
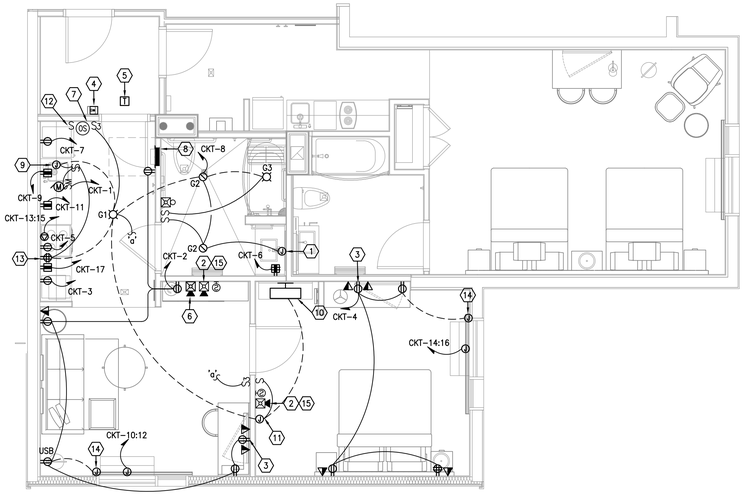


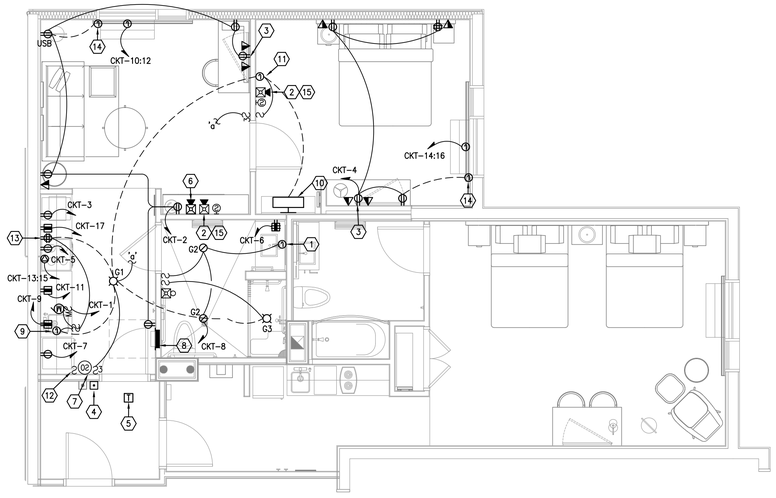
TYPICAL KING SUITE LOCKOUT ENLARGED UNIT FLOOR PLAN - ELECTRICAL

1 SCALE: 1/4" = 1'-0"



TYPICAL KING SUITE LOCKOUT-ADA TUB ENLARGED UNIT FLOOR PLAN - ELECTRICAL

2 SCALE: 1/4" = 1'-0"



TYPICAL KING SUITE LOCKOUT ADA-SHO ENLARGED UNIT FLOOR PLAN - ELECTRICAL

3 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. ALL NON-LOCKING, 125V, 15A AND 20A RECEPTACLES INSTALLED IN GUESTROOM UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.

D. 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN GUESTROOM UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.

E. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

F. CONTRACTOR SHALL INSTALL RECEPTACLES SUCH THAT RECEPTACLES IN WALLS BETWEEN GUESTROOMS ARE OFFSET HORIZONTALLY BY A MINIMUM OF 6 INCHES.

G. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.

H. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.

I. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.

J. SMOKE ALARMS IN DWELLING UNITS SHALL BE SHALL BE LOW-VOLTAGE, PHOTOELECTRIC SMOKE DETECTORS WITH SOUNDER BASES THAT ARE BOTH POWERED AND MONITORED BY THE FACP PER MARRIOTT'S MODULE 14. AND SHALL BE INSTALLED WITH CLEARANCES IN COMPLIANCE WITH NFPA 72.

K. AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL HAVE A SOUND LEVEL OF AT LEAST 85 dBA AT 10 FEET AND 75 dBA AT THE PILLOW AND BE OF A LOW FREQUENCY, SQUARE WAVE SIGNAL 520 HZ (+/-10%), IN ACCORDANCE WITH NFPA 72 SECTIONS 18.4.5.1-18.4.5.3.

L. BUILDING FIRE ALARM SYSTEM NOTIFICATION SHALL INCLUDE BE LOW FREQUENCY HORNS IN STANDARD GUESTROOM UNITS AND LOW FREQUENCY HORN/STROBES IN HEARING IMPAIRED (H.I.) GUESTROOMS UNITS. COORDINATE H.I. LOCATIONS WITH ARCHITECTURAL PLANS.

M. VISUAL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL HAVE AN INTENSITY LEVEL OF:

- 110 CD WHERE TOP OF LENS IS INSTALLED GREATER THAN OR EQUAL TO 24 INCHES FROM THE CEILING
- 177 CD WHERE TOP OF LENS IS INSTALLED LESS THAN 24 INCHES FROM THE CEILING

AND SHALL NOT BE FURTHER THAN 16 FEET FROM THE PILLOW, IN ACCORDANCE WITH NFPA 72 SECTIONS 18.5.5.7.1-18.5.5.7.3.

REFERENCE NOTES: (X)

(1) INSTALL JUNCTION BOX FOR LIT VANITY MIRROR AT A HEIGHT PER OWNER'S SPECIFICATIONS.

(2) PROVIDE FIRE ALARM VISUAL/AUDIBLE NOTIFICATION APPLIANCE IN PLACE OF AUDIBLE ONLY DEVICE AT HEARING-IMPAIRED GUEST ROOMS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF HEARING-IMPAIRED ROOMS.

(3) VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT ELEVATIONS FOR T.V.

(4) PROVIDE DOORBELL IN HEARING IMPAIRED ROOMS ONLY. REFER TO ARCHITECTUAL DRAWINGS. PROVIDE A SURFACE MOUNT LOW VOLTAGE ILLUMINATED DOOR BELL EQUAL TO EDWARDS #630L. COLOR SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 48" AFF.

(5) PROVIDE A 120V TO 24V TRANSFORMER FOR DOORBELL & HORN/STROBE. TRANSFORMER EQUAL TO EDWARDS #592. MOUNT ABOVE CORRIDOR CEILING WHERE ACCESSIBLE.

(6) PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL. DEVICE TO BE EQUAL TO EDWARDS #867STR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.

(7) PROVIDE DIGITAL TEHRMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FOR LIGHTING CONTROLS AND PROPERTY MANAGEMENT SYSTEM INTEGRATION. COORDINATE WITH MARRIOTT MECHANICAL STANDARD 15.A FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN COORDINATE LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

(8) PROVIDE FLUSH MOUNTED STUDIO PANEL. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

(9) PROVIDE JUNCTION BOX FOR MILLWORK LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MILLWORK PROVIDER PRIOR TO ROUGH-IN.

(10) PROVIDE LIGHT FIXTURE AND ASSOCIATED HARDWARE FOR CLOSET LIGHT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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(12) INSTALL DISCONNECT SWITCH FOR DOORBELL IN HEARING IMPAIRED AND ACCESSIBLE GUESTROOMS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

(13) PROVIDE QUAD RECEPTACLE FOR MILLWORK LIGHTING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MILLWORK PROVIDER PRIOR TO ROUGH-IN.

(14) PROVIDE JUNCTION BOX AND ALL NECESSARY WIRING/SWITCHING FOR MOTORIZED WINDOW SHEER AND SHADES. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(15) ALL SLEEPING ROOMS REQUIRE A SOUND LEVEL OF AT LEAST 75dBA AT THE PILLOW LEVEL, IN ADDITION TO THE LOW FREQUENCY SQUARE WAVE OR EQUIVALENT 520HZ +\- 10%. PROVIDE AND INSTALL AS REQUIRED PER NFPA 72 (2013) 18.4.5.1-18.4.5.3

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TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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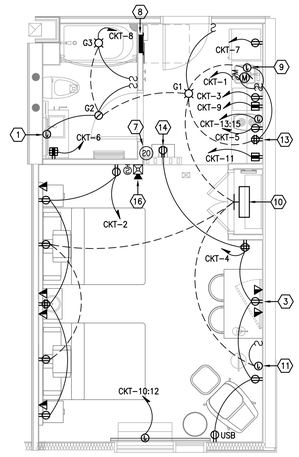
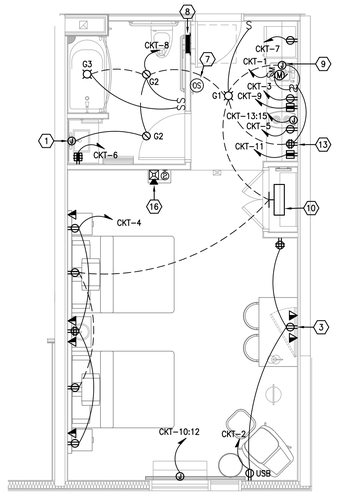


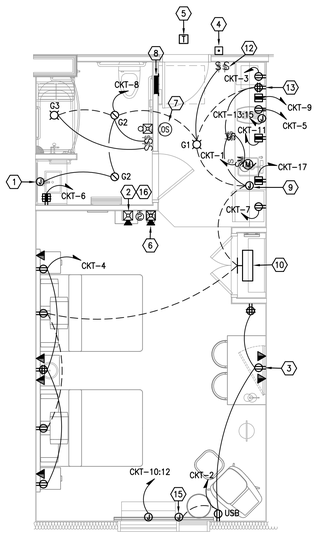
1 TYPICAL QQ STUDIO CENTER ENLARGED UNIT FLOOR PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"



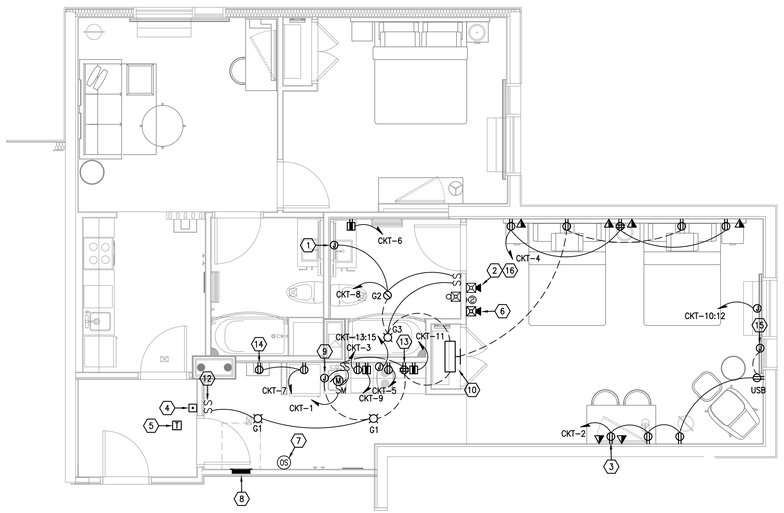
2 TYPICAL QQ STUDIO WIDE ENLARGED UNIT FLOOR PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"



3 TYPICAL QQ STUDIO ADA ENLARGED UNIT FLOOR PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"



4 TYPICAL QQ STUDIO END ENLARGED UNIT FLOOR PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. ALL NON-LOCKING, 125V, 15A AND 20A RECEPTACLES INSTALLED IN GUESTROOM UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.

D. 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN GUESTROOM UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.

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H. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.

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(6) PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL. DEVICE TO BE EQUAL TO EDWARDS #B675TR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.

(7) PROVIDE DIGITAL TEHRMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FOR LIGHTING CONTROLS AND PROPERTY MANAGEMENT SYSTEM INTEGRATION. COORDINATE WITH MARRIOTT MECHANICAL STANDARD 15.A FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATE LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

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(16) ALL SLEEPING ROOMS REQUIRE A SOUND LEVEL OF AT LEAST 75dBA AT THE PILLOW LEVEL, IN ADDITION TO THE LOW FREQUENCY SQUARE WAVE OR EQUIVALENT 520HZ +\- 10%. PROVIDE AND INSTALL AS REQUIRED PER NFPA 72 (2013) 18.4.5.1-18.4.5.3

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TOWNEPLACE SUITES HOTEL

LAKE CITY HOTELS, INC.
NW COMMERCE DRIVE, LAKE CITY, FLORIDA

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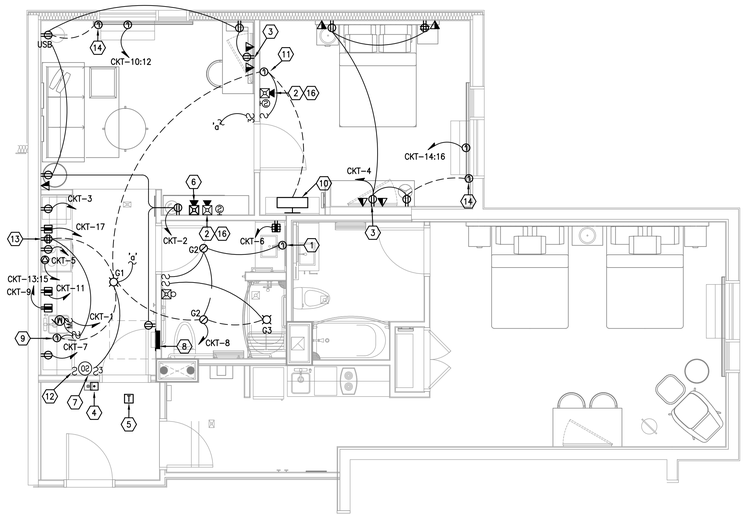

TYPICAL QUEEN SUITE LOCKOUT -ADA-TUB ENLARGED UNIT FLOOR PLAN - ELECTRICAL

1 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. ALL NON-LOCKING, 125V, 15A AND 20A RECEPTACLES INSTALLED IN GUESTROOM UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.

D. 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN GUESTROOM UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.

E. PROVIDE A GREEN EQUIPMENT GROUND WIRE IN BRANCH CIRCUIT AND FEEDER CONDUITS.

F. CONTRACTOR SHALL INSTALL RECEPTACLES SUCH THAT RECEPTACLES IN WALLS BETWEEN GUESTROOMS ARE OFFSET HORIZONTALLY BY A MINIMUM OF 6 INCHES.

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H. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.

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REFERENCE NOTES: (X)

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C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

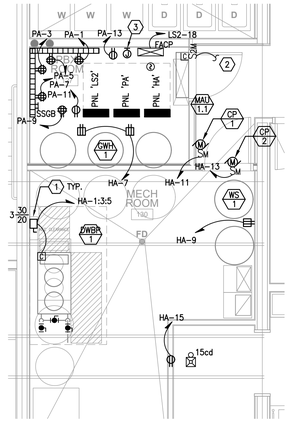
D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: ⟨X⟩

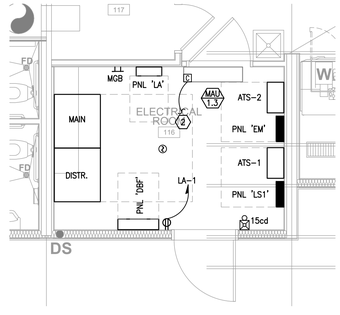
⟨1⟩ ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.

⟨2⟩ 2#10, 1#10GND. IN 1/2"C. TO RESPECTIVE EXTERIOR CONDENSER UNIT. COORDINATE EXACT REQUIREMENTS WITH DIVISION 15. PRIOR TO ROUGH-IN.

⟨3⟩ ELECTRICAL CONTACTOR SHALL PROVIDE (1) 8"X8" JUNCTION BOX WITH COVERPLATE ON EACH FLOOR OF BUILDING FOR FUTURE DAS SYSTEM IF REQUIRED. PROVIDE 2"C. (EMPTY W/ PULLSTRING) BETWEEN ALL JUNCTION BOXES FOR FUTURE DAS SYSTEM WIRING. COORDINATE LOCATION OF JUNCTION BOXES WITH OWNER AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. LABEL ALL JUNCTION BOXES, COVERPLATE AND CONDUIT AS REQUIRED FOR FUTURE IDENTIFICATION.



1 ENLARGED PLAN - MECH/PBX
SCALE: 1/4" = 1'-0"



2 ENLARGED PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

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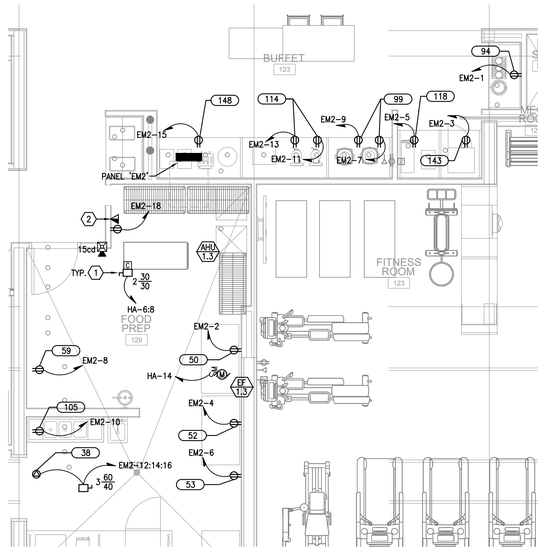

1 ENLARGED PLAN - FOOD PREP/BUFFET

SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE – FOODSERVICE

MARK	QTY.	DESCRIPTION	COMMENTS	LOCATION
023	3	Shelving – Dry Storage		Kitchen
033	1	Spray Rinse		Kitchen
038	1	Dishwasher – Undercounter		Kitchen
041	1	Pot Rack with Shelf		Kitchen
046	1	Pot Sink		Kitchen
050	1	Freezer – Two–Door Reach–In		Kitchen
052	1	Refrigerator – Two–Door Reach–In		Kitchen
053	1	Freezer – Single–Door Reach–In		Kitchen
059	1	Refrigerator – Compact		Kitchen
063	1	Table – Prep with Backsplash		Kitchen
093	1	Dry Cereal Display	By Operator, NIKEC	Buffet
094	1	Oatmeal Cooker		Buffet
099	2	Induction Warmers		Buffet
100	1	Plate Unit	Not Shown	Buffet
105	1	Coffee Airpot Brewer	By Operator, NIKEC	Kitchen
105A	Lot	Coffee Airpots	By Operator, NIKEC	On Us
111	1	Microwave Oven		Kitchen
112	1	Microwave Shelf		Kitchen
114	2	Waffle Irons	By Vendor, NIKEC; For Weekends	Buffet
117	1	Toaster	Alternate to Item 148; Not Shown	Buffet
118	1	Juice Chiller	By Vendor, NIKEC	Buffet
119	Lot	Garbage Cans	By Operator, NIKEC	Buffet
119	Lot	Garbage Cans	By Operator, NIKEC	Kitchen
122	2	Waffle Irons	By Vendor, NIKEC; Alt. to 114	Buffet
123	1	Hand Lavatory	With Eyewash	Kitchen
140	2	Bread Display	By Operator, NIKEC	Buffet
143	1	Counter Refrigerator		Buffet
148	1	Slot Toaster		Buffet
151	Lot	Buffet – Counter	Architectural Woodwork	Buffet
155	Lot	Buffet – Waste Chute		Buffet
551	1	Ice Maker/Dispenser – Vending	Not Shown	Vending

NIKEC – Not in Kitchen Equipment Contract

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

GENERAL KITCHEN NOTES:

A. REFER TO "KITCHEN EQUIPMENT SCHEDULE" FOR DESCRIPTION AND POWER REQUIREMENTS OF EACH DEVICE IN KITCHEN. COORDINATE EXACT LOCATION OF ALL JUNCTION BOXES, RECEPTACLES, ETC. WITH KITCHEN EQUIPMENT VENDOR PRIOR TO ROUGH–IN.

B. ALL 15AMP & 20AMP RECEPTACLES IN KITCHEN AND BAR AREA SHALL BE GFCI PROTECTED PER NEC 210.8(B)2.

C. DIVISION 16 CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT, FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING AS REQUIRED. COORDINATE WITH FOOD SERVICE DRAWINGS AND MANUFACTURER'S INSTRUCTIONS FOR LOCATION OF ALL EQUIPMENT CONNECTION LOCATIONS AND REQUIREMENTS.

D. DIVISION 16 CONTRACTOR SHALL PULL ALL LOW VOLTAGE WIRING FOR POS SYSTEM, PHONE, AND SECURITY CAMERAS. COORDINATE WITH OWNER'S VENDOR

E. FLEXIBLE CONDUIT INSTALLED IN KITCHEN FOR FINAL EQUIPMENT CONNECTION SHALL BE LIQUID TIGHT CONDUIT WITH NEOPRENE JACKET.

F. INTERCONNECT DEFROST TIMERS ON WALK–IN EVAPORATOR COILS TO REMOTE COMPRESSORS PER MANUFACTURER'S INSTRUCTIONS.

G. ENCLOSURES FOR ALL ELECTRICAL PANELS, CIRCUIT BREAKER ENCLOSURES, DISCONNECT SWITCHES, WALL SWITCHES, CONTACTOR ENCLOSURES, PUSHBUTTONS, ETC WITHIN KITCHEN AREA SHALL BE FOOD GRADE, RECESSED MOUNTED, UNLESS OTHERWISE NOTED.

REFERENCE NOTES: ⟨X⟩

⟨1⟩ ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH–IN AND PROVIDE AS REQUIRED.

⟨2⟩ LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 56" AFF (TYPICAL).

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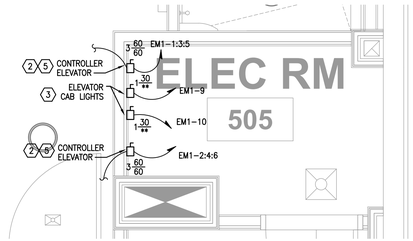
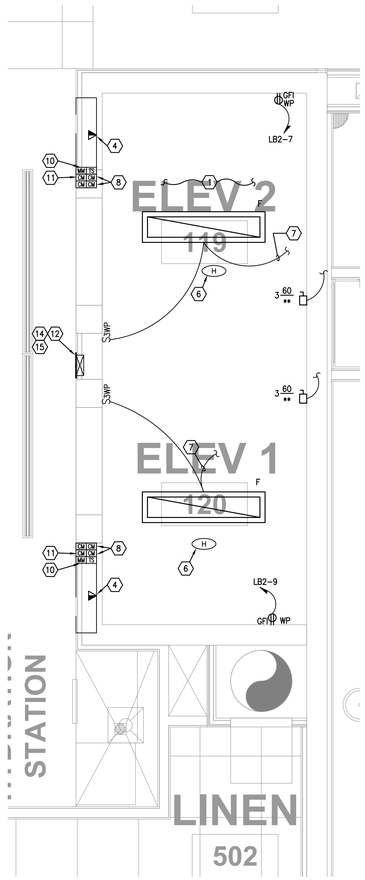
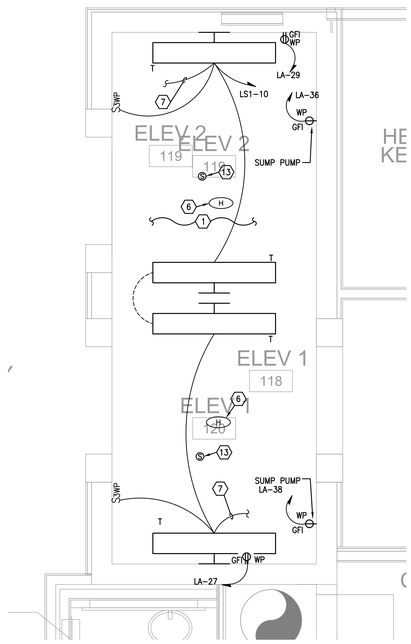


4 ENLARGED PLAN - FIFTH FLOOR ELECTRICAL ROOM
SCALE: 1/2" = 1'-0"



2 ENLARGED PLAN - FIFTH FLOOR ELEVATOR
SCALE: 1/2" = 1'-0"



3 ENLARGED PLAN - FIRST FLOOR ELEVATOR
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: ⟨X⟩

⟨1⟩ REFER TO ELEVATOR SHOP DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL WORK IN ELEVATOR PIT AND MACHINE ROOM. PROVIDE CONNECTION SWITCHES, LIGHTS AND RECEPTACLES AS PER NEC 620.23 AND 24. CONNECT FIRE ALARM AND TELEPHONE DEVICES IN ELEVATOR SHAFT LOBBY AND EQUIPMENT ROOM PER STATE FIRE MARSHALL REQUIREMENTS.

⟨2⟩ PROVIDE LOCKABLE RK5 DISCONNECT SWITCH WITH 20A AUXILIARY CONTACTS, REJECTION CLIPS AND RK5 FUSES AS REQUIRED BY ELEVATOR INSTALLER. CONNECT ELEVATOR CONTROLLER. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

⟨3⟩ 30A, 120V LOCKABLE DISCONNECT SWITCH WITH REJECTION CLIPS AND 20A RK5 FUSE. LABEL "ELEVATOR CAB LIGHTS". CONNECT ELEVATOR CONTROLLERS: (2)#12 AND (1)#12 GND. IN 1/2"C.

⟨4⟩ ELEVATOR CAB TELEPHONE. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.

⟨5⟩ COORDINATE DISCONNECT SIZE, BREAKER SIZE, AND CONDUIT/CONDUCTOR SIZING WITH APPROVED ELEVATOR SHOP DRAWINGS AND PROVIDE AS REQUIRED.

⟨6⟩ MOUNT HEAT DETECTOR WITHIN 18" OF FIRE PROTECTION SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN.

⟨7⟩ CONNECT ELEVATOR SHAFT LIGHTING ON TOP FLOOR TO ELEVATOR PIT LIGHTING ON FIRST FLOOR. FIXTURES TO BE CONTROLLED BY 3-WAY SWITCH AS SHOWN ON PLANS.

⟨8⟩ ELEVATOR RECALL CONTROL MODULES. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.

⟨9⟩ ELEVATOR POWER SHUTDOWN CONTROL MODULE.

⟨10⟩ ELEVATOR POWER SHUTDOWN CONTROL CIRCUIT SUPERVISORY MONITOR MODULE.

⟨11⟩ ELEVATOR PHASE 1 EMERGENCY RECALL VISUAL SIGNAL CONTROL MODULE. COORDINATE TERMINATION REQUIREMENTS WITH ELEVATOR CONTROLLER.

⟨12⟩ PROVIDE AREA OF REFUGE TWO-WAY COMMUNICATION SYSTEM AND CABLING TO MAIN BASE STATION AS REQUIRED BY 2015 IBC AND LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.

⟨13⟩ ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX AND ROUGH-IN FOR SOUND SYSTEM SPEAKER. SPEAKER TO BE MOUNTED IN ELEVATOR CAB. COORDINATE LOCATION AND REQUIREMENTS WITH ELEVATOR PROVIDER AND SPEAKER SYSTEM INSTALLER PRIOR TO ROUGH-IN.

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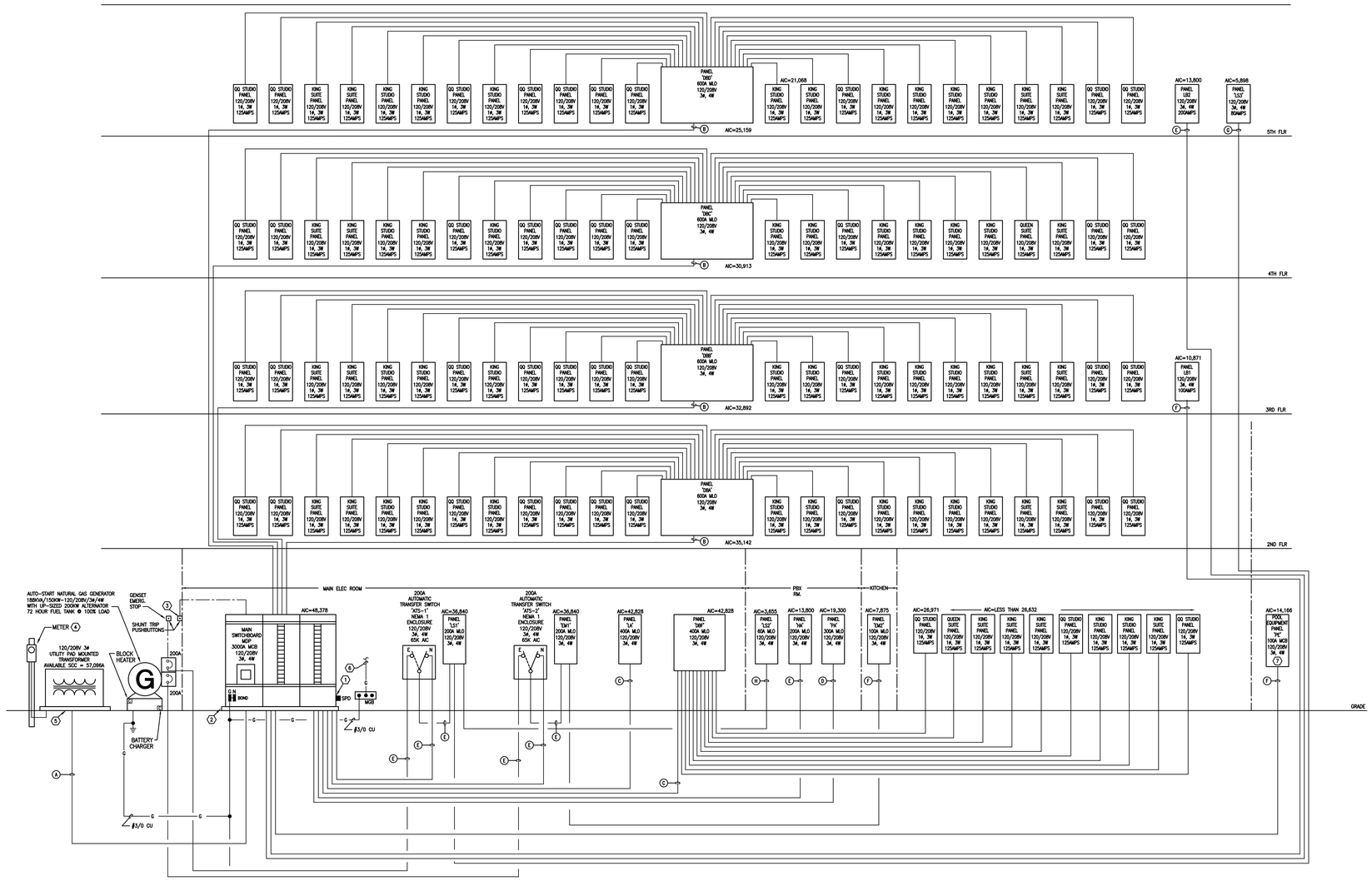

1 Power Riser Diagram
E5.01 No Scale

CONDUCTOR SIZES

A	
B	
C	
D	
E	
F	
G	
H	

UNIT FEEDER SCHEDULE

208V/1ø RESIDENTIAL LOAD CENTERS

UNIT LOAD CENTER	MAXIMUM DISTANCE (FEET)	MINIMUM FEEDER SIZE (ALUMINUM SER CABLE)
125A	135	(3)#2/0 AWG AL & (1)#1 AWG AL GRD
	170	(3)#3/0 AWG AL & (1)#1/0 AWG AL GRD
	215	(3)#4/0 AWG AL & (1)#2/0 AWG AL GRD

NOTES:
1. FEEDER SIZES BASED ON NEC TABLE 310.15(B)(16) 75°C COLUMN.
2. FEEDER SIZES BASED ON 2% VOLTAGE DROP.
3. BASIS OF DESIGN: SOUTHWIRE SERVICE ENTRANCE CABLE – TYPE SER THREE CONDUCTOR WITH BARE GROUND.

GENERAL NOTES:

A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

B. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE AS WELL AS NATIONAL, STATE, AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

C. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN.

D. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.

E. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.

F. PER (FEC C405.6.3 2017ed): ALL CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS ARE DESIGNED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.

G. FOR ALL EXISTING EQUIPMENT BEING RECONNECTED TO NEW PANELS AND EXISTING EQUIPMENT TO REMAIN, E.C. SHALL CONFIRM THAT BREAKER AND FEEDER SIZES ARE CORRECTLY MATCHED UP TO THE EQUIPMENT LOADS SHOWN ON THE EQUIPMENT NAMEPLATE.

H. CONTRACTOR SHALL PROVIDE "ARC FLASH/SHOCK HAZARD" SIGNAGE FOR ALL PANELBOARDS AS REQUIRED PER ANSI, NEC, OSHA AND NFPA. INCLUDE ALL INFORMATION PER LATEST REQUIREMENTS INCLUDING REQUIRED LEVEL OF PPE, AVAILABLE FAULT CURRENT, APPROACH BOUNDARIES, ETC.

I. PER NEC 110.24 SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. WHEN MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE, THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT RATINGS ARE SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT. THE REQUIRED FIELD MARKING(S) IN 110.24(A) SHALL BE ADJUSTED TO REFLECT THE NEW LEVEL OF MAXIMUM AVAILABLE FAULT CURRENT.

REFERENCE NOTES: (X)

1. PROVIDE SURGE PROTECTIVE DEVICE OF SAME MANUFACTURER AS SWITCHBOARD.
2. PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
3. BREAK GLASS TYPE SHUNT TRIP MOUNTED ON BUILDING EXTERIOR. REFER TO FLOOR PLANS FOR EXACT LOCATION. PROVIDE CONDUIT AND CONTROL WIRING AS REQUIRED TO SHUNT BOTH MAIN DISTRIBUTION PANEL WITH SINGLE BUTTON.
4. COORDINATE METER BASE AND POST REQUIREMENTS WITH LOCAL UTILITY COMPANY.
5. COORDINATE UTILITY TRANSFORMER AND ASSOCIATED CONCRETE PAD REQUIREMENTS WITH LOCAL UTILITY COMPANY.
6. #3/0 AWG CU. GROUND WIRE TO SYSTEM GROUND BUS BAR LOCATED IN ENGINEERING/COMMUNICATIONS ROOM.
7. PROVIDE NEMA 3R RATED, 120/208VOLT, 3Ø, 4W, 100AMP, PANEL (MINIMUM 22KAIC) FOR CONNECTION OF POOL EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH POOL EQUIPMENT SUPPLIER PRIOR TO ORDERING/ROUGH-IN.

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

61G15-32.008 DESIGN OF FIRE ALARM AND DETECTION SYSTEM COMPLIANCE NOTES FOR APARTMENTS AND CLUBHOUSE:

APPLICABLE CODES: FBC FLORIDA BUILDING CODE (2020) 7TH EDITION
FFPC FLORIDA FIRE PREVENTION CODE (2018) 7TH EDITION
- NFPA 1 FIRE CODE (2018) FLORIDA EDITION
- NFPA 101 LIFE SAFETY CODE (2018) FLORIDA EDITION

NFPA 70 NATIONAL ELECTRICAL CODE (2017)
NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE (2016)
AHJ – LAKE CITY, FLORIDA – LOCAL CODES & AMENDMENTS

(4) ENSURE MINIMUM DESIGN QUALITY OF FIRE ALARM SYSTEM AS FOLLOWS

A. DESIGN INTENT

1. SYSTEM TYPE: MASTER FIRE ALARM CONTROL PANEL LOCATED IN CLUBHOUSE SHALL BE AN ADDRESSABLE PANEL BY EDWARDS, HONEYWELL, NOTIFIER, SILENT KNIGHT, OR APPROVED EQUIVALENT. SUB-PANEL FACP'S IN EACH APARTMENT BUILDING SHALL BE ADDRESSABLE TYPES.
2. SEE SYMBOL LEGEND ON THIS SHEET.
3. SEE FIRE ALARM RISER DIAGRAM(S) THIS SHEET.
4. CABLING REQUIREMENTS:
   a. WIRING METHOD: THE SYSTEM WILL BE FREE WIRED USING APPROPRIATE STRAPS, TIES, FITTINGS, ETC. TO PREVENT DAMAGE TO THE WIRING.
   b. INITIATION CIRCUITS (LOOP): INITIATION LOOP CONDUCTORS SHALL BE WEST PENN #D991 FOR 3000'0" IN LENGTH AND LESS. WEST PENN #D995 SHALL BE USED FOR CIRCUITS OVER 3000'0" IN LENGTH. BELOW GRADE, WET OR DAMP LOCATION INSTALLED CABLE, INCLUDING CABLE INSTALLED ON THE TOP OF EXTERIOR WALKWAYS, SHALL BE WEST PENN AQUASEAL MULTI-CONDUCTOR (14 GAUGE), UNLESS NOTED OTHERWISE, SHALL BE INSTALLED IN CONDUIT.
   c. SIGNAL CIRCUITS: SIGNAL CIRCUITS SHALL BE #14 AWG THWN 19 STRAND COPPER (USE #12 AWG IF VOLTAGE DROP EXCEEDS MANUFACTURER'S SPECIFICATIONS).
   d. ANNUNCIATOR CIRCUITS: #14 AWG THWN 19 STRAND COPPER (USE #12 AWG IF VOLTAGE DROP EXCEEDS MANUFACTURER'S SPECIFICATIONS).
   e. EACH AND EVERY WIRE SHALL BE LABELED AT EACH END WITH SLC #, CHANNEL # OR SIGNAL #. EACH SEPARATE CIRCUIT, INITIATION, SIGNAL AND AUXILIARY SHALL HAVE A SPECIFIC NUMBER. LABEL EACH CONDUCTOR BY THIS CIRCUIT NUMBER AT THE CONTROL CONNECTIONS AND AT EACH TERMINAL CONNECTION IN THE TERMINAL CABINETS.
5. FIRE RATINGS REQUIRED FOR SURVIVABILITY: UNLESS NOTED OTHERWISE, PATHWAY SURVIVABILITY SHALL BE LEVEL 0 OR 1.
6. GENERAL OCCUPANCY OF PROTECTED PROPERTY: R-1, R-2, R-3. R-4, BUSINESS (XX PERSONS), FITNESS (XX PERSONS).

B. DEVICE LOCATIONS AND RELATED SYSTEMS

1. ALL INITIATION AND NOTIFICATION DEVICES ARE SHOWN ON ELECTRICAL POWER AND SYSTEMS PLANS WITHIN THIS ELECTRICAL DRAWING SET.
2. CONNECTIONS TO OTHER SYSTEMS: PROVIDE RELAYS FOR OTHER LOCAL CONTROL SUCH AS HVAC SHUTDOWN AND FIRE/SMOKE DAMPER RELEASE. RELAYS SHALL BE 10 AMP RATED RELAYS. UPON ACTIVATION OF THE FIRE ALARM SYSTEM, THE RELAY SHALL ACTIVATE AND SHUTDOWN THE CONTROLLED EQUIPMENT. LOCATE ALL RELAYS WITHIN 36" OF EQUIPMENT CONTROLLED. PROVIDE WEATHERPROOF UNITS WHERE INDICATED OR INSTALL IN WEATHERPROOF BOXES.

C. STROBE INTENSITY AND SPEAKER OUTPUT RATINGS

1. PER NFPA 72 SECTION 18.4.3 AUDIBLE SIGNALS SHALL BE AT LEAST 15dB ABOVE AVERAGE AMBIENT SOUND LEVEL OR 5dB ABOVE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER.
2. ALL VISUAL NOTIFICATION DEVICES SHALL HAVE CANDELA RATINGS AS INDICATED ON PLAN SHEET(S), PER NFPA 72 SECTION 18.5.5.4.
3. AUDIBLE APPLIANCES FOR SLEEPING AREAS SHALL PRODUCE A LOW FREQUENCY ALARM SIGNAL THAT COMPLIES WITH NFPA SECTION 18.4.5.3.
4. VISUAL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL HAVE AN INTENSITY LEVEL OF:
   - 110 CD WHERE TOP OF LENS IS INSTALLED GREATER THAN OR EQUAL TO 24 INCHES FROM THE CEILING
   - 177 CD WHERE TOP OF LENS IS INSTALLED LESS THAN 24 INCHES FROM THE CEILING

   AND SHALL NOT BE FURTHER THAN 16 FEET FROM THE PILLOW, IN ACCORDANCE WITH NFPA 72 SECTIONS 18.5.5.7.1-18.5.5.7.3.

D. CIRCUIT CLASSES

INITIATING DEVICE CIRCUITS – CLASS B. SIGNALING LINE CIRCUITS – CLASS B. NOTIFICATION APPLIANCE CIRCUIT – CLASS B.

E. FUNCTIONS – SEE FIRE ALARM MATRIX OF OPERATIONS THIS SHEET.

F. FIRE ALARM TYPE AND ZONING

1. FIRE ALARM SYSTEM IS AN ADDRESSABLE TYPE. SUB-PANELS ARE ADDRESSABLE TYPE.
2. INITIATING DEVICES SHALL BE ZONED BY BUILDING/FLOOR.
3. EVACUATION SIGNALS SHALL BE ZONED BY BUILDING.

G. SURGE PROTECTION

DITEK SURGE PROTECTION DEVICES DEVICES SHALL BE PROVIDED AT EACH CONNECTION TO MAIN POWER AND WHERE A CIRCUIT ENTERS/EXITS THE BUILDING. ALL SURGE/TRANSIENT SUPPRESSORS MUST BE CONNECTED TO APPROVED BUILDING GROUND.

H. ENVIRONMENTAL FACTORS

NO SPECIAL ENVIRONMENTAL FACTORS APPLY. FIRE ALARM DEVICES AND EQUIPMENT TO BE INSTALLED OUTDOORS IN EXTERIOR LOCATIONS SHALL BE SPECIFICALLY DESIGNED AND U.L. LISTED AS WEATHERPROOF AND WATERPROOF.

I. SITE PLAN

AN ELECTRICAL SITE PLAN HAS BEEN PROVIDED ON SHEET E1.01 INDICATING THE LOCATIONS OF MASTER FACP IN CLUBHOUSE AND SUB PANEL FACP'S IN APARTMENT BUILDINGS.

J. AREA SMOKE DETECTION

1. WHERE SMOKE DETECTORS ARE USED TO PROVIDE AREA COVERAGE, THEY SHALL BE LOCATED IN ACCORDANCE WITH NFPA 72 SECTION 17.7.3 "LOCATION AND SPACING" AND NFPA SECTION 29.8.3.4 "SPECIFIC LOCATION REQUIREMENTS" FOR THE APPLICABLE CONDITIONS.
2. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE LOCATED WHERE AMBIENT CONDITIONS, INCLUDING HUMIDITY AND TEMPERATURE, ARE OUTSIDE THE LIMITS SPECIFIED BY THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
3. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN UNFINISHED ATTICS OR GARAGES OR IN OTHER SPACES WHERE TEMPERATURES CAN FALL BELOW 40°F OR EXCEED 100°F.
4. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 10 FT FROM A STATIONARY OR FIXED COOKING APPLIANCE, UNLESS LISTED FOR INSTALLATION IN CLOSE PROXIMITY TO COOKING APPLIANCES OR MEETING THE ADDITIONAL CRITERIA LIST IN SECTION 29.8.3.4(4).
5. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3 FT FROM THE FOLLOWING: A DOOR TO A BATHROOM CONTAINING A SHOWER OR TUB, SUPPLY AIR REGISTERS, AND/OR THE TIP OF THE BLADE OF A CEILING PADDLE FAN.

K. SMOKE STRATIFICATION – SMOKE STRATIFICATION IS NOT EXPECTED TO OCCUR IN THIS/THESE INTERIOR BUILDING(S).

L. PERFORMANCE BASED DESIGN (PBD) – THE DESIGN IS DERIVED FROM A PRESCRIPTIVE DESIGN BASIS.

M. EVACUATION SIGNAL – EVACUATION SIGNAL IS A GENERAL SIGNAL ☐ BY FLOOR ☒ BY BUILDING.

N. WIRING REQUIREMENTS

1. WIRING SHALL BE IN ACCORDANCE WITH NFPA 72 AND NFPA 70 ARTICLES 300, 760, 770, AND 800, AS APPLICABLE, UNLESS OTHERWISE NOTED.
2. PROTECTION AGAINST DAMAGE: INSTALL WIRING IN METAL RACEWAY. CONCEAL RACEWAY EXCEPT IN UNFINISHED SPACES AND AS INDICATED.
3. FIRE ALARM DEVICES AND EQUIPMENT TO BE INSTALLED OUTDOORS IN EXTERIOR LOCATIONS SHALL BE SPECIFICALLY DESIGNED AND U.L. LISTED AS WEATHERPROOF AND WATERPROOF. PROVIDE WEATHERPROOF NEOPRENE GASKETS BETWEEN WALL MOUNTING SURFACE AND FIRE ALARM DEVICE FOR ALL DEVICES MOUNTED OUTDOORS.

O. OPERATIONS AND MAINTENANCE PROCEDURES

1. PROVIDE THE SERVICES OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO DEMONSTRATE THE SYSTEM AND TRAIN OWNER'S MAINTENANCE PERSONNEL AS SPECIFIED BELOW:
   a. TRAIN OWNER'S MAINTENANCE PERSONNEL IN THE LOCATION OF DEVICES, BOXES, PROCEDURES AND SCHEDULES INVOLVED IN OPERATING, TROUBLESHOOTING, SERVICING, AND PREVENTIVE MAINTAINING OF THE SYSTEM. PROVIDE A MINIMUM OF 4 HOURS' TRAINING. TRAINING SHALL INCLUDE A COMPLETE PROJECT WALKDOWN WITH OWNER'S AUTHORIZED REPRESENTATIVE TO IDENTIFY DEVICE LOCATIONS, JUNCTION BOX LOCATIONS AND SURGE SUPPRESSION MODULE LOCATIONS.
   b. SCHEDULE TRAINING WITH THE OWNER AT LEAST SEVEN WORKING DAYS IN ADVANCE.

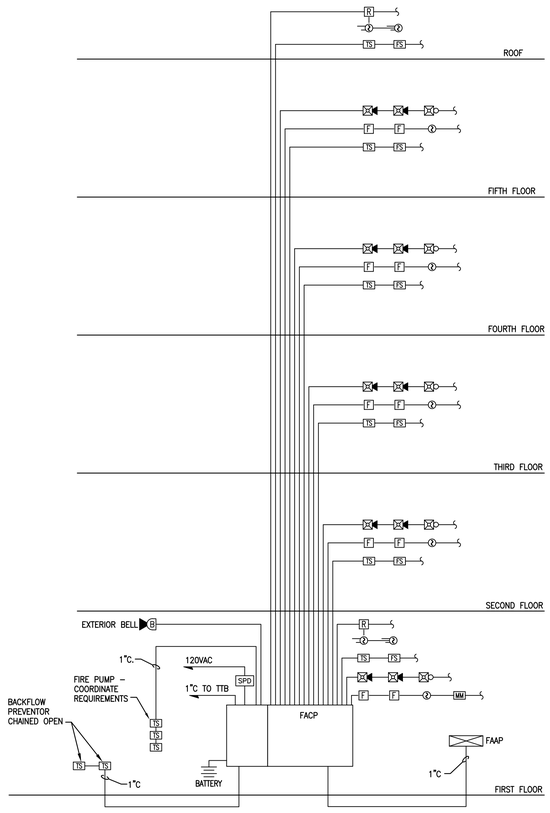
(5) BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS

FIRE ALARM CONTRACTOR SHALL SUBMITTALS AND SHOP DRAWINGS WITH BATTERY CALCULATIONS AND VOLTAGE DROP (CIRCUIT ANALYSIS) CALCULATIONS BASED ON THE SPECIFIC EQUIPMENT INCLUDED IN THOSE SUBMITTALS AND SHOP DRAWINGS. CALCULATIONS SHALL BE COMPLETED USING THE EQUIPMENT MANUFACTURE'S DATA AND APPLICABLE NFPA 72 PROCEDURES.

(6) SYSTEM TEST AND DOCUMENTATION REQUIREMENTS

FIRE ALARM CONTRACTOR SHALL PERFORM THE TESTING LISTED BELOW AND PREPARE RECORDS PER NFPA 72 SECTION 14.6.

☒ INITIAL ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 14.4.1 FOR ALL NEW APPLIANCE AND CIRCUITS.
☐ RE-ACCEPTANCE TESTING IN ACCORDANCE WITH NFPA 72 14.4.2 FOR MODIFICATIONS OF EXISTING CIRCUITS.
☒ AFTER INITIAL ACCEPTANCE TESTING, FIRE ALARM SYSTEM TESTING SHALL BE PERFORMED AND DOCUMENTED IN COMPLIANCE WITH THE PERIODIC FREQUENCIES AND METHODS AS SHOWN IN NFPA 72 TABLE 14.3.1.



FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

FIRE ALARM RISER - GENERAL NOTES:

A. FIRE ALARM SYSTEM RISER DIAGRAM IS DIAGRAMMATICAL. SEE FLOOR PLANS FOR EXACT QUANTITIES OF DEVICES. WIRING SHALL BE AS RECOMMENDED BY SYSTEMS MANUFACTURER.

B. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.

C. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.

D. PROVIDE 120VAC SURGE SUPPRESSION AND LOW VOLTAGE FIRE ALARM CIRCUIT SURGE SUPPRESSION.

E. PROVIDE NOTIFICATION APPLIANCE CIRCUITS AND POWER SUPPLIES AS REQUIRED.

F. REFER TO POWER AND SYSTEMS FLOOR PLANS FOR FIRE ALARM EQUIPMENT COUNT.

G. PROVIDE 1" CONDUIT FROM FACP TO TTB.

H. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT WHERE REQUIRED BY CODE OR AHJ. PROVIDE ALL REQUIRED MONITORING AND CONTROL OF MECHANICAL UNITS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.

I. VERIFY FIRE PROTECTION FLOW AND TAMPER SWITCH LOCATION WITH FIRE PROTECTION DRAWINGS. PROVIDE ALL REQUIRED MONITORING OF FIRE PROTECTION SYSTEM.

J. PER FFPC 6TH EDITION NFPA 1 SECTION 11.10 TWO-WAY RADIO COMMUNICATION ENHANCEMENT SYSTEMS: IN ALL NEW AND EXISTING BUILDINGS, MINIMUM RADIO SIGNAL STRENGTH FOR THE FIRE DEPARTMENT COMMUNICATIONS SHALL BE SHALL BE MAINTAINED AT A LEVEL DETERMINED BY THE AHJ.

K. CARBON MONOXIDE DETECTION SHALL BE PROVIDED NEAR GAS APPLIANCES AND WITHIN 10' OF SLEEPING AREAS IN BUILDINGS WITH FUEL BURNING APPLIANCES OR ATTACHED GARAGES, PER FLORIDA STATE STATUTE (2018) §509.211(4) AND §553.885.

FIRE ALARM SYSTEM LEGEND

F	MANUAL PULL STATION
cd	WALL MOUNTED HORN WITH STROBE (cd=CANEDLA RATING)
WP	WALL MOUNTED HORN WITH STROBE IN WEATHERPROOF ENCLOSURE
	CEILING MOUNTED HORN WITH STROBE
M	WALL MOUNTED MINI HORN
M	WALL MOUNTED MINI HORN WITH STROBE
	WALL MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
	CEILING MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
	WALL MOUNTED STROBE
B	FIRE ALARM BELL
D	SMOKE DETECTOR
DCO	SMOKE AND CARBON MONOXIDE COMBINATION DETECTOR
D	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
RDI	REMOTE DUCT DETECTOR INDICATOR LIGHT AND TEST SWITCH
R	FAN SHUT-DOWN RELAY
D	ELECTROMAGNETIC DOOR RELEASE DEVICE
	SMOKE DAMPER (PROVIDE BY MECHANICAL, CONNECTED BY ELECTRICAL)
FJP	FIREMAN'S PHONE JACK
TS	SPRINKLER SYSTEM SUPERVISORY TAMPER SWITCH CONNECTION
FS	SPRINKLER SYSTEM FLOW SWITCH CONNECTION
CM	CONTROL MODULE
MM	MONITOR MODULE
LB	LOCK BOX
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FAAP	FIRE ALARM ANNUNCIATOR PANEL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER

		CONTROL UNIT ANNUNCIATION						NOTIFICATION	FIRE SAFETY CONTROL									
	SYSTEM INPUTS	A ACTUATE COMMON ALARM SIGNAL INDICATOR	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D ACTUATE AUDIBLE SUPERVISORY SIGNAL	E ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F ACTUATE COMMON TROUBLE SIGNAL	G ACTUATE ALARM INDICATOR	H ACTUATE EVACUATION SIGNAL	I DISPLAY/PRINT CHANGE OF STATUS	J TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	K TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	L TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	M RELEASE MAGNETICALLY HELD SMOKE DOORS	N RECALL ELEVATORS TO PRIMARY RECALL FLOOR	O RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	P CLOSE SMOKE/FIRE DAMPERS IN RATED WALLS	Q SHUTDOWN AFFECTED ELEVATOR POWER	R SHUTDOWN AFFECTED AIR HANDLING UNIT(S)	S UNLOCK SECURED EGRESS EXITS
1	MANUAL FIRE ALARM BOXES	●	●				●	●		●	●			●						●
2	AREA SMOKE DETECTORS	●	●				●	●		●	●			●			●			●
3	IN-DUCT SMOKE DETECTORS			●	●					●		●					●	●		●
4	HEAT DETECTOR IN ELEVATOR SHAFT/PIT	●	●							●	●						●	●		●
5	ELEVATOR LOBBY SMOKE DETECTORS – FIRST FLOOR	●	●							●	●			●		●	●			●
6	ELEVATOR LOBBY SMOKE DETECTORS – UPPER FLOORS	●	●							●	●			●	●		●			●
7	WATER FLOW	●	●					●		●	●			●	●					●
8	SPRINKLER CONTROL VALVE			●	●					●		●								
9	OPEN CIRCUIT					●	●							●						
10	GROUND FAULT					●	●							●						
11	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●							●						

FIRE ALARM MATRIX OF OPERATIONS

NO SCALE

AA C000606

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REVISION

JOB NO.

DATE

SHEET
E6.2
OF

PANEL 'DBA'

LOCATION: 2ND FLOOR ELECTRICAL ROOM | VOLTAGE: 208Y/120V 3Φ 4W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS
TYPE: SQUARE-D | MAINS: 600A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER 'MC' | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT #	NEUT	GND	COND	BKR	LOAD KVA	PHASE #	LOAD KVA	BKR	BRANCH CIRCUIT #	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	2
3	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	4
5	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	6
7	–		–	–	–	–	–	9.21	A	9.23	–	–	–	–	–		–	8
9	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	B	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	10
11	–		–	–	–	–	–	9.29	C	9.21	–	–	–	–	–		–	12
13	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	14
15	–		–	–	–	–	–	9.29	B	9.23	–	–	–	–	–		–	16
17	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	18
19	–		–	–	–	–	–	9.23	A	9.23	–	–	–	–	–		–	20
21	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	B	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	22
23	–		–	–	–	–	–	9.23	C	9.23	–	–	–	–	–		–	24
25	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	26
27	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	28
29	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	30
31	–		–	–	–	–	–	9.23	A	9.29	–	–	–	–	–		–	32
33	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	34
35	–		–	–	–	–	–	9.21	C	9.29	–	–	–	–	–		–	36
37	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	38
39	–		–	–	–	–	–	9.21	B	9.21	–	–	–	–	–		–	40
41	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	42
43	–		–	–	–	–	–	9.21	A	9.21	–	–	–	–	–		–	44
45	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	–	–	–	–	–	–		SPACE ONLY	46
47	–		–	–	–	–	–	9.21	C	–	–	–	–	–	–		SPACE ONLY	48
49	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PANELS (PER HOTEL/RESIDENTIAL LOAD SUMMARY)	424.61 KVA		36%	152.86 KVA

NOTES:
1)REFER TO DISTRIBUTION FEEDER CALCULATIONS & POWER RISER DIAGRAM FOR FEEDER SIZES.

TOTAL DEMAND LOAD: 152.86 KVA
TOTAL DEMAND AMPS: 424.80 AMPS

PANEL 'DBB'

LOCATION: 2ND FLOOR ELECTRICAL ROOM | VOLTAGE: 208Y/120V 3Φ 4W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS
TYPE: SQUARE-D | MAINS: 600A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER 'MC' | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT #	NEUT	GND	COND	BKR	LOAD KVA	PHASE #	LOAD KVA	BKR	BRANCH CIRCUIT #	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	2
3	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	4
5	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	6
7	–		–	–	–	–	–	9.21	A	9.23	–	–	–	–	–		–	8
9	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	B	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	10
11	–		–	–	–	–	–	9.29	C	9.21	–	–	–	–	–		–	12
13	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	14
15	–		–	–	–	–	–	9.29	B	9.23	–	–	–	–	–		–	16
17	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	18
19	–		–	–	–	–	–	9.23	A	9.23	–	–	–	–	–		–	20
21	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	B	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	22
23	–		–	–	–	–	–	9.23	C	9.23	–	–	–	–	–		–	24
25	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	26
27	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	28
29	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	30
31	–		–	–	–	–	–	9.23	A	9.29	–	–	–	–	–		–	32
33	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	34
35	–		–	–	–	–	–	9.21	C	9.29	–	–	–	–	–		–	36
37	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	38
39	–		–	–	–	–	–	9.21	B	9.21	–	–	–	–	–		–	40
41	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	42
43	–		–	–	–	–	–	9.21	A	9.21	–	–	–	–	–		–	44
45	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	–	–	–	–	–	–		SPACE ONLY	46
47	–		–	–	–	–	–	9.21	C	–	–	–	–	–	–		SPACE ONLY	48
49	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PANELS (PER HOTEL/RESIDENTIAL LOAD SUMMARY)	424.61 KVA		36%	152.86 KVA

NOTES:
1)REFER TO DISTRIBUTION FEEDER CALCULATIONS & POWER RISER DIAGRAM FOR FEEDER SIZES.

TOTAL DEMAND LOAD: 152.86 KVA
TOTAL DEMAND AMPS: 424.80 AMPS

PANEL 'MDP'

LOCATION: MAIN ELECTRICAL ROOM | VOLTAGE: 208Y/120V 3Φ 4W | MIN. AIC RATING: 65K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS
TYPE: SQUARE-D QED SWITCHBOARD | MAINS: 3000A ☐ MLO ☒ MCB | MOUNTING: FREE STANDING
FED FROM: UTILITY TRANSFORMER | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT #	NEUT	GND	COND	BKR	LOAD KVA	PHASE #	LOAD KVA	BKR	BRANCH CIRCUIT #	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	PANEL 'DBA'	1	–	–	–	–	600/3	50.95	A	50.95	600/3	–	–	–	–	1	PANEL 'DBB'	2
3	–		–	–	–	–	–	50.95	B	50.95	–	–	–	–	–		–	4
5	–		–	–	–	–	–	50.95	C	50.95	–	–	–	–	–		–	6
7	PANEL 'DBC'	1	–	–	–	–	600/3	50.95	A	50.95	600/3	–	–	–	–	1	PANEL 'DBD'	8
9	–		–	–	–	–	–	50.95	B	50.95	–	–	–	–	–		–	10
11	–		–	–	–	–	–	50.95	C	50.95	–	–	–	–	–		–	12
13	PANEL 'DBF'	1	–	–	–	–	400/3	26.51	A	10.89	200/3	–	–	–	–	1	PANEL 'LS1' VIA ATS–1	14
15	–		–	–	–	–	–	26.51	B	10.89	–	–	–	–	–		–	16
17	–		–	–	–	–	–	26.51	C	10.89	–	–	–	–	–		–	18
19	PANEL 'LA'	1	–	–	–	–	400/3	16.56	A	20.56	200/3	–	–	–	–	1	PANEL 'EM' VIA ATS–2	20
21	–		–	–	–	–	–	16.56	B	20.56	–	–	–	–	–		–	22
23	–		–	–	–	–	–	16.56	C	20.56	–	–	–	–	–		–	24
25	PANEL 'PA'	1	–	–	–	–	300/3	11.75	A	2.41	100/3	–	–	–	–	1	PANEL 'LB1'	26
27	–		–	–	–	–	–	11.75	B	2.41	–	–	–	–	–		–	28
29	–		–	–	–	–	–	11.75	C	2.41	–	–	–	–	–		–	30
31	PANEL 'HA'	1	–	–	–	–	200/3	8.83	A	13.56	200/3	–	–	–	–	1	PANEL 'LB2'	32
33	–		–	–	–	–	–	8.83	B	13.56	–	–	–	–	–		–	34
35	–		–	–	–	–	–	8.83	C	13.56	–	–	–	–	–		–	36
37	OAU–1		1/0	1/0	6	2"	150/3	10.20	A	–	–	–	–	–	–		SPACE	38
39	–		1/0	–	–	–	–	10.20	B	–	–	–	–	–	–		–	40
41	–		1/0	–	–	–	–	10.20	C	–	–	–	–	–	–		–	42
43	OAU–2		2	2	8	1.25"	80/3	5.46	A	7.20	100/3	–	–	–	–	1	PANEL 'PE' (POOL)	44
45	–		2	–	–	–	–	5.46	B	7.20	–	–	–	–	–		–	46
47	–		2	–	–	–	–	5.46	C	7.20	–	–	–	–	–		–	48
49	SPACE		–	–	–	–	–	–	A	–	–	–	–	–	–	2	SPACE	50
51	–		–	–	–	–	–	–	B	–	–	–	–	–	–		–	52
53	–		–	–	–	–	–	–	C	–	–	–	–	–	–		–	54
55	SPACE		–	–	–	–	–	–	A	–	60/3	4	4	10	3.25"		SURGE PROTECTIVE DEVICE (SPD)	56
57	–		–	–	–	–	–	–	B	–	–	4	–	–	–		–	58
59	–		–	–	–	–	–	–	C	–	–	4	–	–	–		–	60

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PANELS	275.28 KVA		100%	275.28 KVA
HVAC	46.98 KVA		100%	46.98 KVA
GUESTROOM DISTRIBUTION PANELS	1883.24 KVA		23%	433.14 KVA

NOTES:
1)REFER TO RISER DIAGRAM FOR FEEDER SIZES
2)PROVIDE SHUNT TRIP C/B FOR ELEVATORS

TOTAL DEMAND LOAD: 755.40 KVA
TOTAL DEMAND AMPS: 2,098.33 AMPS

PANEL 'DBC'

LOCATION: 2ND FLOOR ELECTRICAL ROOM | VOLTAGE: 208Y/120V 3Φ 4W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS
TYPE: SQUARE-D | MAINS: 600A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER 'MC' | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT #	NEUT	GND	COND	BKR	LOAD KVA	PHASE #	LOAD KVA	BKR	BRANCH CIRCUIT #	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	2
3	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	4
5	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	6
7	–		–	–	–	–	–	9.21	A	9.23	–	–	–	–	–		–	8
9	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	B	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	10
11	–		–	–	–	–	–	9.29	C	9.21	–	–	–	–	–		–	12
13	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	14
15	–		–	–	–	–	–	9.29	B	9.23	–	–	–	–	–		–	16
17	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	18
19	–		–	–	–	–	–	9.23	A	9.23	–	–	–	–	–		–	20
21	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	B	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	22
23	–		–	–	–	–	–	9.23	C	9.23	–	–	–	–	–		–	24
25	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	26
27	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	28
29	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.22	125/2	–	–	–	–	1	UNIT PANEL – QUEEN SUITE	30
31	–		–	–	–	–	–	9.23	A	9.22	–	–	–	–	–		–	32
33	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	34
35	–		–	–	–	–	–	9.21	C	9.29	–	–	–	–	–		–	36
37	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	38
39	–		–	–	–	–	–	9.21	B	9.21	–	–	–	–	–		–	40
41	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	42
43	–		–	–	–	–	–	9.21	A	9.21	–	–	–	–	–		–	44
45	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	–	–	–	–	–	–		SPACE ONLY	46
47	–		–	–	–	–	–	9.21	C	–	–	–	–	–	–		SPACE ONLY	48
49	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PANELS (PER HOTEL/RESIDENTIAL LOAD SUMMARY)	424.48 KVA		36%	152.81 KVA

NOTES:
1)REFER TO DISTRIBUTION FEEDER CALCULATIONS & POWER RISER DIAGRAM FOR FEEDER SIZES.

TOTAL DEMAND LOAD: 152.81 KVA
TOTAL DEMAND AMPS: 424.66 AMPS

PANEL 'DBD'

LOCATION: 2ND FLOOR ELECTRICAL ROOM | VOLTAGE: 208Y/120V 3Φ 4W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS
TYPE: SQUARE-D | MAINS: 600A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER 'MC' | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT #	NEUT	GND	COND	BKR	LOAD KVA	PHASE #	LOAD KVA	BKR	BRANCH CIRCUIT #	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	2
3	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	4
5	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	6
7	–		–	–	–	–	–	9.21	A	9.23	–	–	–	–	–		–	8
9	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	B	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	10
11	–		–	–	–	–	–	9.29	C	9.21	–	–	–	–	–		–	12
13	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	14
15	–		–	–	–	–	–	9.29	B	9.23	–	–	–	–	–		–	16
17	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	18
19	–		–	–	–	–	–	9.23	A	9.23	–	–	–	–	–		–	20
21	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	B	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	22
23	–		–	–	–	–	–	9.23	C	9.23	–	–	–	–	–		–	24
25	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	26
27	–		–	–	–	–	–	9.21	B	9.23	–	–	–	–	–		–	28
29	UNIT PANEL – KING STUDIO	1	–	–	–	–	125/2	9.23	C	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	30
31	–		–	–	–	–	–	9.23	A	9.29	–	–	–	–	–		–	32
33	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	34
35	–		–	–	–	–	–	9.21	C	9.29	–	–	–	–	–		–	36
37	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	38
39	–		–	–	–	–	–	9.21	B	9.21	–	–	–	–	–		–	40
41	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	C	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	42
43	–		–	–	–	–	–	9.21	A	9.21	–	–	–	–	–		–	44
45	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	B	–	–	–	–	–	–		SPACE ONLY	46
47	–		–	–	–	–	–	9.21	C	–	–	–	–	–	–		SPACE ONLY	48
49	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PANELS (PER HOTEL/RESIDENTIAL LOAD SUMMARY)	424.61 KVA		36%	152.86 KVA

NOTES:
1)REFER TO DISTRIBUTION FEEDER CALCULATIONS & POWER RISER DIAGRAM FOR FEEDER SIZES.

TOTAL DEMAND LOAD: 152.86 KVA
TOTAL DEMAND AMPS: 424.80 AMPS

HOTEL/RESIDENTIAL CALCULATION LOAD SUMMARY - MDP

UNIT PANELS - KING STUDIO	18,460	VA x	38	=	701,480 VA
UNIT PANELS - KING SUITE	18,580	VA x	19	=	353,020 VA
UNIT PANELS - QQ STUDIO	18,415	VA x	43	=	791,845 VA
UNIT PANELS - Q SUITE	18,445	VA x	2	=	36,890 VA
TOTAL CONNECTED UNIT LOAD				=	1,883,235 VA
TOTAL UNIT DEMAND LOAD				=	433,144 VA (PER NEC 220.84)
TOTAL DEMAND AMPS				=	1,203.71 AMPS 3000A @ 208Y/3PH, 4W SERVICE

HOTEL/RESIDENTIAL CALCULATION LOAD SUMMARY - PANEL 'DBA'

UNIT PANELS - KING STUDIO	18,460	VA x	9	=	166,140 VA
UNIT PANELS - KING SUITE	18,580	VA x	4	=	74,320 VA
UNIT PANELS - QQ STUDIO	18,415	VA x	10	=	184,150 VA
UNIT PANELS - Q SUITE	18,445	VA x	0	=	0 VA
TOTAL CONNECTED UNIT LOAD				=	424,610 VA
TOTAL UNIT DEMAND LOAD				=	152,860 VA (PER NEC 220.84)
TOTAL DEMAND AMPS				=	424.80 AMPS 600A @ 208Y/3PH, 4W SERVICE

HOTEL/RESIDENTIAL CALCULATION LOAD SUMMARY - PANEL 'DBB'

UNIT PANELS - KING STUDIO	18,460	VA x	9	=	166,140 VA
UNIT PANELS - KING SUITE	18,580	VA x	4	=	74,320 VA
UNIT PANELS - QQ STUDIO	18,415	VA x	10	=	184,150 VA
UNIT PANELS - Q SUITE	18,445	VA x	0	=	0 VA
TOTAL CONNECTED UNIT LOAD				=	424,610 VA
TOTAL UNIT DEMAND LOAD				=	152,860 VA (PER NEC 220.84)
TOTAL DEMAND AMPS				=	424.80 AMPS 600A @ 208Y/3PH, 4W SERVICE

HOTEL/RESIDENTIAL CALCULATION LOAD SUMMARY - PANEL 'DBD'

UNIT PANELS - KING STUDIO	18,460	VA x	9	=	166,140 VA
UNIT PANELS - KING SUITE	18,580	VA x	3	=	55,740 VA
UNIT PANELS - QQ STUDIO	18,415	VA x	10	=	184,150 VA
UNIT PANELS - Q SUITE	18,445	VA x	1	=	18,445 VA
TOTAL CONNECTED UNIT LOAD				=	424,475 VA
TOTAL UNIT DEMAND LOAD				=	152,811 VA (PER NEC 220.84)
TOTAL DEMAND AMPS				=	424.66 AMPS 600A @ 208Y/3PH, 4W SERVICE

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E7.1

OF

PANEL 'EM1'

LOCATION: 5TH FLOOR HOUSEKEEPING					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D					MAINS: 200A ☒ MLO ☐ MCB					MIN. AIC RATING: 42K AIC									
FED FROM: ATS					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 1									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	ELEVATOR #1		4	4	8	1.25"	60/3	5.76	A	5.76	60/3	4	4	8	1.25"		ELEVATOR #1	2
3	–		4	–	–	–	–	5.76	B	5.76	–	4	–	–	–		–	4
5	–		4	–	–	–	–	5.76	C	5.76	–	4	–	–	–		–	6
7	SHUNT TRIP		–	–	–	–	////	////	A	////	////	–	–	–	–		SHUNT TRIP	8
9	ELEVATOR LIGHTING CIRCUIT 1		12	12	12	1/2"	20/1	1.00	B	1.00	20/1	12	12	12	1/2"		ELEVATOR LIGHTING CIRCUIT 2	10
11	DRYER		12	12	12	1/2"	20/1	0.50	C	–	–	–	–	–	–		SPACE ONLY	12
13	WASHER		10	10	10	3/4"	30/3	2.40	A	–	–	–	–	–	–		SPACE ONLY	14
15	–		10	–	–	–	–	2.40	B	–	–	–	–	–	–		SPACE ONLY	16
17	–		10	–	–	–	–	2.40	C	–	–	–	–	–	–		SPACE ONLY	18
19	RECEPS – FRONT DESK		–	–	–	–	20/1	0.54	A	–	20/1	–	–	–	–		SPARE	20
21	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	22
23	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	24
25	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	26
27	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	28
29	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	30
31	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	32
33	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	34
35	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	36
37	SPACE ONLY		–	–	–	–	–	–	A	5.46	100/3	–	–	–	–		PANEL 'EM2'	38
39	SPACE ONLY		–	–	–	–	–	–	B	5.46	–	–	–	–	–		–	40
41	SPACE ONLY		–	–	–	–	–	–	C	5.46	–	–	–	–	–		–	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
EQUIPMENT	42.80 KVA		100%	42.80 KVA	
LIGHTING	2.00 KVA		125%	2.50 KVA	
SUB PANEL	16.37 KVA		100%	16.37 KVA	
NOTES:					TOTAL DEMAND LOAD: 61.67 KVA
					TOTAL DEMAND AMPS: 171.31 AMPS

PANEL 'EM2'

LOCATION: PANTRY #114					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D					MAINS: 100A ☒ MLO ☐ MCB					MIN. AIC RATING: 10K AIC									
FED FROM: PANEL 'EM1'					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 4X									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	OATMEAL COOKER (94)		12	12	12	1/2"	20/1	1.20	A	1.58	20/1	12	12	12	1/2"		TWO DOOR FREEZER (50)	2
3	COUNTER REFRIGERATOR (143)		12	12	12	1/2"	20/1	0.30	B	1.09	20/1	12	12	12	1/2"		TWO DOOR REFRIGERATOR (52)	4
5	JUICE CHILLER (118)		12	12	12	1/2"	20/1	0.54	C	0.86	20/1	12	12	12	1/2"		SINGLE DOOR FREEZER (54)	6
7	INDUCTION WARMER (99)		12	12	12	1/2"	20/1	0.65	A	0.55	20/1	12	12	12	1/2"		COMPACT REFRIGERATOR (59)	8
9	INDUCTION WARMER (99)		12	12	12	1/2"	20/1	0.65	B	1.70	20/1	12	12	12	1/2"		COFFEE BREWER (105)	10
11	WAFFLE IRON (114)		12	12	12	1/2"	20/1	1.50	C	3.66	40/3	8	8	10	3/4"		DISHWASHER	12
13	WAFFLE IRON (114)		12	12	12	1/2"	20/1	1.50	A	3.66	–	8	–	–	–		–	14
15	SLOT TOASTER (148)		12	12	12	1/2"	20/1	1.80	B	3.66	–	8	–	–	–		–	16
17	SPARE		–	–	–	–	20/1	–	C	0.18	20/1	12	12	12	1/2"		RECEP – GENERAL	18
19	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	20
21	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	22
23	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	24
25	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	26
27	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	28
29	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	30
31	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	32
33	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	34
35	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	36
37	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	38
39	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	40
41	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
RECEPTACLES – GENERAL	0.18 KVA		100%	0.18 KVA	
KITCHEN EQUIPMENT	24.90 KVA		65%	16.19 KVA	PER NEC 220.56
NOTES:					TOTAL DEMAND LOAD: 16.37 KVA
					TOTAL DEMAND AMPS: 45.47 AMPS

PANEL 'LS1'

LOCATION: MECHANICAL ROOM 026					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D					MAINS: 200A ☒ MLO ☐ MCB					MIN. AIC RATING: 42K AIC									
FED FROM: MDP					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 1									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTING – ELEC/LAUNDRY/BREAK		12	12	12	1/2"	20/1	1.06	A	0.30	20/1	10	10	10	1/2"		LIGHTING – 2ND FLOOR CORRIDOR	2
3	LIGHTING – CORRIDOR/ELEVATOR LOBBY		12	12	12	1/2"	20/1	0.59	B	0.46	20/1	10	10	10	1/2"		LIGHTING – 2ND FLOOR CORRIDOR	4
5	LIGHTING – OFFICES		12	12	12	1/2"	20/1	0.42	C	0.25	20/1	10	10	10	1/2"		LIGHTING – STAIRWELL	6
7	LIGHTING – WELCOME DESK/HUB/VEST		12	12	12	1/2"	20/1	0.57	A	0.25	20/1	10	10	10	1/2"		LIGHTING – STAIRWELL	8
9	LIGHTING – WELCOME DESK PENDANT		12	12	12	1/2"	20/1	0.10	B	0.16	20/1	10	10	10	1/2"		LIGHTING – ELEVATOR SHAFT	10
11	LIGHTING – EXTERIOR		12	12	12	1/2"	20/1	0.21	C	–	20/1	–	–	–	–		SPARE	12
13	LIGHTING – EXTERIOR		10	10	10	1/2"	20/1	0.06	A	–	20/1	–	–	–	–		SPARE	14
15	LIGHTING – EXTERIOR		10	10	10	1/2"	20/1	0.33	B	–	20/1	–	–	–	–		SPARE	16
17	SPACE ONLY		–	–	–	–	–	–	C	–	20/1	–	–	–	–		SPARE	18
19	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	20
21	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	22
23	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	24
25	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	26
27	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	28
29	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	30
31	SPACE ONLY		–	–	–	–	–	–	A	–	60/3	–	–	–	–		SURGE PROTECTION DEVICE (SPD)	32
33	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		–	34
35	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		–	36
37	PANEL 'LS2'		–	–	–	–	60/3	2.05	A	6.86	80/3	–	–	–	–		PANEL 'LS3'	38
39	–		–	–	–	–	–	2.05	B	6.86	–	–	–	–	–		–	40
41	–		–	–	–	–	–	2.05	C	6.86	–	–	–	–	–		–	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	4.76 KVA		125%	5.95 KVA	
EQUIPMENT	– KVA		100%	– KVA	
SUB PANELS	26.73 KVA		100%	26.73 KVA	
NOTES:					TOTAL DEMAND LOAD: 32.68 KVA
					TOTAL DEMAND AMPS: 90.78 AMPS

PANEL 'LS2'

LOCATION: PBX ROOM					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D					MAINS: 60A ☒ MLO ☐ MCB					MIN. AIC RATING: 10K AIC									
FED FROM: PANEL 'LS1'					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 1									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTING – FOOD PREP/MECH/PBX		12	12	12	1/2"	1/2"	0.64	A	0.25	20/1	10	10	10	1/2"		LIGHTING – STAIRWELL	2
3	LIGHTING – CORRIDOR		12	12	12	1/2"	1/2"	0.45	B	0.25	20/1	10	10	10	1/2"		LIGHTING – STAIRWELL	4
5	LIGHTING – FITNESS		12	12	12	1/2"	1/2"	0.78	C	–	–	–	–	–	–		SPACE ONLY	6
7	LIGHTING – COMMUNITY/FLEX		12	12	12	1/2"	1/2"	0.58	A	–	–	–	–	–	–		SPACE ONLY	8
9	LIGHTING – COMMUNITY PENDANT		12	12	12	1/2"	1/2"	0.05	B	–	20/1	–	–	–	–		SPARE	10
11	LIGHTING – HUB PENDANTS		12	12	12	1/2"	1/2"	0.10	C	–	20/1	–	–	–	–		SPARE	12
13	LIGHTING – BUFFET PENDANT		12	12	12	1/2"	1/2"	0.05	A	–	20/1	–	–	–	–		SPARE	14
15	LIGHTING – EXTERIOR		12	12	12	1/2"	1/2"	0.06	B	–	20/1	–	–	–	–		SPARE	16
17	SPACE ONLY		–	–	–	–	–	–	C	1.00	20/1	12	12	12	1/2"		FACP	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
RECEPTACLES – GENERAL	4.11 KVA		125%	5.14 KVA	
EQUIPMENT	1.00 KVA		100%	1.00 KVA	
NOTES:					TOTAL DEMAND LOAD: 6.14 KVA
					TOTAL DEMAND AMPS: 17.06 AMPS

PANEL 'LS3'

LOCATION: 5TH FLOOR ELECTRICAL ROOM					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D					MAINS: 80A ☒ MLO ☐ MCB					MIN. AIC RATING: 10K AIC									
FED FROM: PANEL 'LS1'					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 1									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTING – 5TH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	A	3.82	40/3	–	–	–	–		OAU-1 FAN UNIT	2
3	LIGHTING – 5TH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.46	B	3.82	–	–	–	–	–		–	4
5	LIGHTING – 4TH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	C	3.82	–	–	–	–	–		–	6
7	LIGHTING – 4TH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.46	A	2.09	25/3	–	–	–	–		OAU-2 FAN UNIT	8
9	LIGHTING – 3RD FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	B	2.09	–	–	–	–	–		–	10
11	LIGHTING – 3RD FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.46	C	2.09	–	–	–	–	–		–	12
13	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	14
15	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	16
17	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	2.28 KVA		125%	2.85 KVA	
EQUIPMENT	17.73 KVA		100%	17.73 KVA	
NOTES:					TOTAL DEMAND LOAD: 20.58 KVA
1)					TOTAL DEMAND AMPS: 57.17 AMPS
2)					
3)					

PANEL 'DBF'

LOCATION: MECHANICAL ROOM 026					VOLTAGE: 208Y/120V 3ø 4W												NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS		
TYPE: SQUARE-D I-LINE					MAINS: 400A ☒ MLO ☐ MCB					MIN. AIC RATING: 65K AIC									
FED FROM: MDP					LUGS: ☐ SUB-FEED ☐ FEED-THRU					MOUNTING: SURFACE									
										ENCLOSURE: NEMA 1									
CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	UNIT PANEL – QQ STUDIO	1	–	–	–	–	125/2	9.21	A	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	2
3	–		–	–	–	–	–	9.21	B	9.29	–	–	–	–	–		–	4
5	UNIT PANEL – QUEEN SUITE	1	–	–	–	–	125/2	9.22	C	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	6
7	–		–	–	–	–	–	9.22	A	9.21	–	–	–	–	–		–	8
9	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	B	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	10
11	–		–	–	–	–	–	9.29	C	9.23	–	–	–	–	–		–	12
13	UNIT PANEL – KING SUITE	1	–	–	–	–	125/2	9.29	A	9.23	125/2	–	–	–	–	1	UNIT PANEL – KING STUDIO	14
15	–		–	–	–	–	–	9.29	B	9.23	–	–	–	–	–		–	16
17	SPACE ONLY		–	–	–	–	–	–	C	9.29	125/2	–	–	–	–	1	UNIT PANEL – KING SUITE	18
19	SPACE ONLY		–	–	–	–	–	–	A	9.29	–	–	–	–	–		–	20
21	SPACE ONLY		–	–	–	–	–	–	B	9.21	125/2	–	–	–	–	1	UNIT PANEL – QQ STUDIO	22
23	SPACE ONLY		–	–	–	–	–	–	C	9.21	–	–	–	–	–		–	24
25	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	26
27	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	28
29	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	30

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
PANELS (PER HOTEL/RESIDENTIAL CALCULATIONS)	184.93 KVA		43%	79.52 KVA	
NOTES:					TOTAL DEMAND LOAD: 79.52 KVA
1)REFER TO DISTRIBUTION FEEDER CALCULATIONS & POWER RISER DIAGRAM FOR FEEDER SIZES.					TOTAL DEMAND AMPS: 220.99 AMPS

HOTEL/RESIDENTIAL CALCULATION LOAD SUMMARY - PANEL 'DBF'

UNIT PANELS - KING STUDIO	18,460	VA x	2	=	36,920 VA
UNIT PANELS - KING SUITE	18,580	VA x	4	=	74,320 VA
UNIT PANELS - QQ STUDIO	18,415	VA x	3	=	55,245 VA
UNIT PANELS - Q SUITE	18,445	VA x	1	=	18,445 VA
TOTAL CONNECTED UNIT LOAD				=	184,930 VA
TOTAL UNIT DEMAND LOAD				=	79,520 VA (PER NEC 220.84)
TOTAL DEMAND AMPS				=	220.99 AMPS 400A @ 208V/3PH, 4W SERVICE

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REVISION

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SHEET

E7.2

OF

PANEL 'LA'

LOCATION: MAINTENANCE ROOM 109 | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 65K AIC
TYPE: SQUARE–D | MAINS: 400A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: MDP | LUGS: ☐ SUB–FEED ☐ FEED–THRU | ENCLOSURE: NEMA 1

NOTES:
PROVIDE TYPED WRITTEN DIRECTORY
PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	RECEP – ELEC ROOM		12	12	12	1/2"	20/1	0.18	A	4.48	60/2	4	4	10	1.25"		AHU–1.2	2
3	RECEP – MENS RESTROOM		12	12	12	1/2"	20/1	0.18	B	4.48	–	4	–	–	–		–	4
5	RECEP – WOMENS RESTROOM		12	12	12	1/2"	20/1	0.18	C	4.48	60/2	4	4	10	1.25"		AHU–1.5	6
7	REFRIGERATOR – BREAKROOM		12	12	12	1/2"	20/1	0.70	A	4.48	–	4	–	–	–		–	8
9	RECEP – BREAKROOM		12	12	12	1/2"	20/1	0.18	B	2.40	30/3	10	10	10	3/4"		WASHER	10
11	RECEP – BREAKROOM		12	12	12	1/2"	20/1	0.18	C	2.40	–	10	–	–	–		–	12
13	RECEP – BREAKROOM RESTROOM		12	12	12	1/2"	20/1	0.18	A	2.40	–	10	–	–	–		–	14
15	RECEPS – LAUNDRY		12	12	12	1/2"	20/1	0.36	B	0.13	20/1	12	12	12	1/2"		EF–1.2	16
17	RECEPS – CORRIDOR		12	12	12	1/2"	20/1	0.72	C	0.08	20/1	12	12	12	1/2"		EF–1.5	18
19	RECEPS – OFFICES		12	12	12	1/2"	20/1	0.54	A	0.08	20/1	12	12	12	1/2"		EF–1.6	20
21	RECEPS – OFFICES		12	12	12	1/2"	20/1	0.90	B	0.08	20/1	12	12	12	1/2"		EF–1.7	22
23	RECEP – VESTIBULE		12	12	12	1/2"	20/1	0.18	C	0.13	20/1	12	12	12	1/2"		EF–1.9	24
25	RECEPS – EXTERIOR		10	10	10	1/2"	20/1	0.72	A	1.00	20/1	12	12	12	1/2"		VESTIBULE DOOR MOTOR	26
27	RECEP – ELEVATOR PIT		12	12	12	1/2"	20/1	0.18	B	1.00	20/1	12	12	12	1/2"		VESTIBULE DOOR MOTOR	28
29	RECEP – ELEVATOR PIT		12	12	12	1/2"	20/1	0.18	C	1.00	20/1	12	12	12	1/2"		CONNECTION CENTER EQUIPMENT	30
31	SITE LIGHTING		–	–	–	–	20/2	0.64	A	1.00	20/1	12	12	12	1/2"		CONNECTION CENTER EQUIPMENT	32
33	–		–	–	–	–	–	0.64	B	1.00	20/1	12	12	12	1/2"		CONNECTION CENTER EQUIPMENT	34
35	SITE LIGHTING		–	–	–	–	20/2	0.64	C	1.66	20/1	12	12	12	1/2"		SP–1	36
37	–		–	–	–	–	–	0.64	A	1.66	20/1	12	12	12	1/2"		SP–1	38
39	POOL LIGHTING		12	12	12	3/4"	20/2	0.10	B	0.50	20/1	12	12	12	1/2"		DRYER	40
41	–		12	–	–	–	–	0.10	C	–	20/1	–	–	–	–		SPARE	42
43	CAR CHARGING STATION		6	6	10	1"	40/2	3.12	A	–	20/1	–	–	–	–		SPARE	44
45	–		6	–	–	–	–	3.12	B	–	20/1	–	–	–	–		SPARE	46
47	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	48
49	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	50
51	SPARE		–	–	–	–	20/1	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPARE		–	–	–	–	20/1	–	C	–	–	–	–	–	–		SPACE ONLY	54
55	SPARE		–	–	–	–	20/1	–	A	–	–	–	–	–	–		SPACE ONLY	56
57	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	58
59	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	60
61	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	62
63	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	64
65	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	66
67	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	68
69	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	70
71	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	72

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	2.76 KVA		125%	3.45 KVA	
RECEPTACLES – GENERAL	4.86 KVA		**	4.86 KVA	
EQUIPMENT	41.38 KVA		100%	41.38 KVA	
NOTES: *SPLIT A/C, CONDENSING UNIT NOT INCLUDED IN LOAD CALC ** PER NEC 220.44					TOTAL DEMAND LOAD: 49.69 KVA
					TOTAL DEMAND AMPS: 138.03 AMPS

PANEL 'PA'

LOCATION: MAINTENANCE ROOM 109 | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE–D | MAINS: 300A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: MDP | LUGS: ☐ SUB–FEED ☐ FEED–THRU | ENCLOSURE: NEMA 1

NOTES:
PROVIDE TYPED WRITTEN DIRECTORY
PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	TTB		12	12	12	1/2"	20/1	0.36	A	1.50	20/1	12	12	12	1/2"		TREADMILL	2
3	TTB		12	12	12	1/2"	20/1	0.36	B	1.50	20/1	12	12	12	1/2"		TREADMILL	4
5	TTB		12	12	12	1/2"	20/1	0.36	C	1.50	20/1	12	12	12	1/2"		TREADMILL	6
7	TTB		12	12	12	1/2"	20/1	0.36	A	1.50	20/1	12	12	12	1/2"		TREADMILL	8
9	RECEP – PBX ROOM		12	12	12	1/2"	20/1	0.36	B	1.00	20/1	12	12	12	1/2"		FITNESS EQUIPMENT	10
11	RECEP – PBX ROOM		12	12	12	1/2"	20/1	0.18	C	1.00	20/1	12	12	12	1/2"		FITNESS EQUIPMENT	12
13	RECEP – PBX ROOM		12	12	12	1/2"	20/1	0.18	A	1.00	20/1	12	12	12	1/2"		FITNESS EQUIPMENT	14
15	GUEST WASHER		12	12	12	1/2"	20/1	1.50	B	1.00	20/1	12	12	12	1/2"		FITNESS EQUIPMENT	16
17	GUEST WASHER		12	12	12	1/2"	20/1	1.50	C	0.54	20/1	12	12	12	1/2"		RECEPS – FITNESS	18
19	GUEST DRYER		10	10	10	3/4"	30/2	2.50	A	0.18	20/1	12	12	12	1/2"		RECEPS – FITNESS	20
21	–		10	–	–	–	–	2.50	B	0.18	20/1	12	12	12	1/2"		RECEPS – FITNESS	22
23	GUEST DRYER		10	10	10	3/4"	30/2	2.50	C	0.18	20/1	12	12	12	1/2"		RECEPS – FITNESS	24
25	–		10	–	–	–	–	2.50	A	0.18	20/1	12	12	12	1/2"		RECEPS – FITNESS	26
27	RECEPS – CORRIDOR		12	12	12	1/2"	20/1	0.54	B	0.36	20/1	12	12	12	1/2"		RECEPS – FITNESS	28
29	ICE MACHINE		12	12	12	1/2"	20/1	1.00	C	0.72	20/1	12	12	12	1/2"		RECEPS – FLEX	30
31	ICE MACHINE		12	12	12	1/2"	20/1	1.00	A	0.90	20/1	12	12	12	1/2"		RECEPS – COMMUNITY	32
33	SPARE		–	–	–	–	20/1	–	B	0.90	20/1	12	12	12	1/2"		RECEPS – COMMUNITY	34
35	SPARE		–	–	–	–	20/1	–	C	0.90	20/1	12	12	12	1/2"		RECEPS – COMMUNITY	36
37	SPARE		–	–	–	–	20/1	–	A	0.90	20/1	12	12	12	1/2"		RECEPS – HUB	38
39	SPARE		–	–	–	–	20/1	–	B	0.72	20/1	12	12	12	1/2"		RECEPS – HUB	40
41	SPARE		–	–	–	–	20/1	–	C	0.54	20/1	10	10	10	1/2"		RECEPS – EXTERIOR	42
43	SPARE		–	–	–	–	20/1	–	A	0.18	20/1	12	12	12	1/2"		RECEPS – EXTERIOR	44
45	SPARE		–	–	–	–	20/1	–	B	0.18	20/1	12	12	12	1/2"		GAS GRILL	46
47	SPARE		–	–	–	–	20/1	–	C	0.18	20/1	12	12	12	1/2"		GAS GRILL	48
49	SPARE		–	–	–	–	20/1	–	A	0.18	20/1	12	12	12	1/2"		GAS FIREPIT	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54
55	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	56
57	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	58
59	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	60
61	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	62
63	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	64
65	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	66
67	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	68
69	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	70
71	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	72

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	– KVA		125%	– KVA	
RECEPTACLES – GENERAL	8.64 KVA		**	8.64 KVA	
EQUIPMENT	26.62 KVA		100%	26.62 KVA	
NOTES: *SPLIT A/C, CONDENSING UNIT NOT INCLUDED IN LOAD CALC ** PER NEC 220.44					TOTAL DEMAND LOAD: 35.26 KVA
					TOTAL DEMAND AMPS: 97.94 AMPS

PANEL 'HA'

LOCATION: PBX ROOM | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE–D | MAINS: 200A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: MDP | LUGS: ☐ SUB–FEED ☐ FEED–THRU | ENCLOSURE: NEMA 1

NOTES:
PROVIDE TYPED WRITTEN DIRECTORY
PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	DWBP–1		12	12	12	3/4"	20/3	1.27	A	3.72	45/2	6	6	10	1"		AHU–1	2
3	–		12	–	–	–	–	1.27	B	3.72	–	6	–	–	–		–	4
5	–		12	–	–	–	–	1.27	C	2.36	30/2	10	10	10	3/4"		AHU–3	6
7	GWH–1		12	12	12	1/2"	20/1	0.54	A	2.36	–	10	–	–	–		–	8
9	WS–1		12	12	12	1/2"	20/1	0.36	B	3.72	45/2	6	6	10	1"		AHU–4	10
11	HWCP–1		12	12	12	1/2"	20/1	0.48	C	3.72	–	6	–	–	–		–	12
13	HWCP–2		12	12	12	1/2"	20/1	0.48	A	0.13	20/1	12	12	12	1/2"		EF–1.3	14
15	RECEP – MECH		12	12	12	1/2"	20/1	0.18	B	0.07	20/1	12	12	12	1/2"		EF–1.4	16
17	SPARE		–	–	–	–	20/1	–	C	0.13	20/1	12	12	12	1/2"		EF–1.8	18
19	SPARE		–	–	–	–	20/1	–	A	0.70	20/1	12	12	12	1/2"		EWC	20
21	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	22
23	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	24
25	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	26
27	SPACE ONLY		–	–	–	–	–	–	B	–	20/1	–	–	–	–		SPARE	28
29	SPACE ONLY		–	–	–	–	–	–	C	–	20/1	–	–	–	–		SPARE	30
31	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	32
33	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	34
35	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	36
37	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	38
39	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	40
41	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	42
43	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	44
45	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	46
47	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	48
49	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	50
51	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	52
53	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	54
55	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	56
57	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	58
59	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	60
61	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	62
63	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	64
65	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	66
67	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	68
69	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	70
71	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	72

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	– KVA		125%	– KVA	
RECEPTACLES – GENERAL	0.18 KVA		**	0.18 KVA	
EQUIPMENT	26.30 KVA		100%	26.30 KVA	
NOTES: *SPLIT A/C, CONDENSING UNIT NOT INCLUDED IN LOAD CALC ** PER NEC 220.44					TOTAL DEMAND LOAD: 26.48 KVA
					TOTAL DEMAND AMPS: 73.56 AMPS

PANEL 'LB1'

LOCATION: 3RD FLOOR HOUSEKEEPING | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE–D | MAINS: 100A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: MDP | LUGS: ☐ SUB–FEED ☐ FEED–THRU | ENCLOSURE: NEMA 1

NOTES:
PROVIDE TYPED WRITTEN DIRECTORY
PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	TTB		12	12	12	1/2"	20/1	0.36	A	0.90	20/1	10	10	10	1/2"		RECEP – 2ND FLOOR CORRIDOR	2
3	TTB		12	12	12	1/2"	20/1	0.36	B	0.18	20/1	12	12	12	1/2"		RECEP – 2ND FLOOR ELEVATOR LOBBY	4
5	TTB		12	12	12	1/2"	20/1	0.36	C	1.00	20/1	12	12	12	1/2"		2ND FLOOR ICE MACHINE	6
7	SPACE ONLY		–	–	–	–	–	–	A	1.00	20/1	12	12	12	1/2"		2ND FLOOR ICE MACHINE	8
9	SPARE		–	–	–	–	20/1	–	B	0.90	20/1	12	12	12	1/2"		RECEP – 3RD FLOOR CORRIDOR	10
11	SPARE		–	–	–	–	20/1	–	C	0.18	20/1	12	12	12	1/2"		RECEP – 3RD FLOOR ELEVATOR LOBBY	12
13	SPARE		–	–	–	–	20/1	–	A	1.00	20/1	12	12	12	1/2"		3RD FLOOR ICE MACHINE	14
15	SPARE		–	–	–	–	20/1	–	B	1.00	20/1	12	12	12	1/2"		3RD FLOOR ICE MACHINE	16
17	SPARE		–	–	–	–	20/1	–	C	1.00	20/1	12	12	12	1/2"		NAC PANEL	18
19	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	20
21	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	22
23	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	24
25	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	26
27	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	28
29	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	30
31	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	32
33	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	34
35	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	36
37	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	38
39	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	40
41	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	– KVA		125%	– KVA	
RECEPTACLES – GENERAL	2.16 KVA		100%	2.16 KVA	
EQUIPMENT	6.08 KVA		100%	6.08 KVA	
NOTES:					TOTAL DEMAND LOAD: 8.24 KVA
					TOTAL DEMAND AMPS: 22.89 AMPS

PANEL 'LB2'

LOCATION: 5TH FLOOR HOUSEKEEPING | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE–D | MAINS: 200A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: MDP | LUGS: ☐ SUB–FEED ☐ FEED–THRU | ENCLOSURE: NEMA 1

NOTES:
PROVIDE TYPED WRITTEN DIRECTORY
PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	RECEP – ROOF		12	12	12	1/2"	20/1	0.18	A	0.90	20/1	10	10	10	1/2"		RECEP – 4TH FLOOR CORRIDOR	2
3	RECEP – ROOF		12	12	12	1/2"	20/1	0.18	B	0.18	20/1	12	12	12	1/2"		RECEP – 4TH FLOOR ELEVATOR LOBBY	4
5	RECEP – ROOF		12	12	12	1/2"	20/1	0.18	C	1.00	20/1	12	12	12	1/2"		4TH FLOOR ICE MACHINE	6
7	RECEP – ELEVATOR SHAFT		12	12	12	1/2"	20/1	0.18	A	1.00	20/1	12	12	12	1/2"		4TH FLOOR ICE MACHINE	8
9	RECEP – ELEVATOR SHAFT		12	12	12	1/2"	20/1	0.18	B	0.90	20/1	12	12	12	1/2"		RECEP – 5TH FLOOR CORRIDOR	10
11	SPARE		–	–	–	–	20/1	–	C	0.18	20/1	12	12	12	1/2"		RECEP – 5TH FLOOR ELEVATOR LOBBY	12
13	LIGHTING – ROOF BEACON		10	10	10	3/4"	20/1	0.50	A	1.00	20/1	12	12	12	1/2"		5TH FLOOR ICE MACHINE	14
15	LIGHTING – ROOF SIGN		10	10	10	3/4"	20/2	1.50	B	1.00	20/1	12	12	12	1/2"		5TH FLOOR ICE MACHINE	16
17	–		10	–	–	–	–	1.50	C	1.00	20/1	12	12	12	1/2"		NAC PANEL	18
19	SPARE		–	–	–	–	20/1	–	A	–	–	–	–	–	–		SPACE ONLY	20
21	SPARE		–	–	–	–	20/1	–	B	–	–	–	–	–	–		SPACE ONLY	22
23	CU–1.1		–	–	–	–	35/2	1.73	C	2.29	40/2	–	–	–	–		CU–1.2	24
25	–		–	–	–	–	–	1.73	A	2.29	–	–	–	–	–		–	26
27	CU–1.3		–	–	–	–	25/2	1.40	B	1.86	35/2	–	–	–	–		CU–1.4	28
29	–		–	–	–	–	–	1.40	C	1.86	–	–	–	–	–		–	30
31	CU–1.5		–	–	–	–	40/2	2.29	A	–	20/1	–	–	–	–		SPARE	32
33	–		–	–	–	–	–	2.29	B	–	20/1	–	–	–	–		SPARE	34
35	MCU–1.1		–	–	–	–	20/2	1.08	C	1.08	20/2	–	–	–	–		MCU–1.2	36
37	–		–	–	–	–	–	1.08	A	1.08	–	–	–	–	–		–	38
39	MCU–1.3		–	–	–	–	40/2	2.08	B	1.08	20/2	–	–	–	–		MCU–3.1	40
41	–		–	–	–	–	–	2.08	C	1.08	–	–	–	–	–		–	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD	
LIGHTING	3.50 KVA		125%	4.38 KVA	
RECEPTACLES – GENERAL	2.52 KVA		100%	2.52 KVA	
EQUIPMENT	34.78 KVA		100%	34.78 KVA	
NOTES:					TOTAL DEMAND LOAD: 41.68 KVA
					TOTAL DEMAND AMPS: 115.78 AMPS

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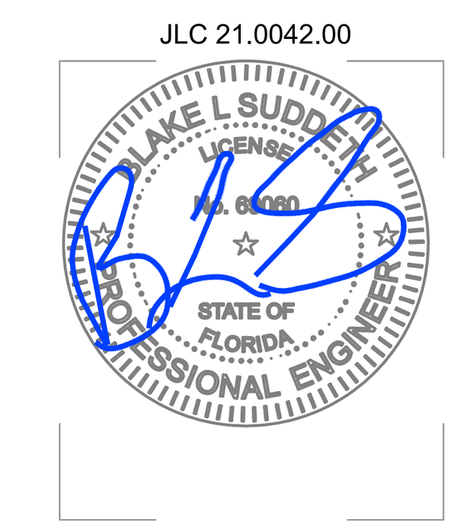

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OF

HOTEL/RESIDENTIAL UNIT KING STUDIO ELECTRICAL SERVICE LOAD SUMMARY

460	SQUARE FT. x 3 VA	=	1,380	VA	(GENERAL LTG/RECEP LOAD PER NEC 220.84(C)
1,500	VA x 2	=	3,000	VA	(SMALL APPLIANCE LOAD)
1,200	VA x 1	=	1,200	VA	(DISHWASHER)
800	VA x 1	=	800	VA	(DISPOSAL)
840	VA x 1	=	840	VA	(REFRIGERATOR)
8,000	VA x 1	=	8,000	VA	(SIM COOKING APPL LOAD PER NEC 220.84(A)(2))
TOTAL GENERAL LOAD		=	15,220	VA	
TOTAL HVAC LOAD		=	3,240	VA	(PTAC)
TOTAL CONNECTED LOAD		=	18,460	VA	
TOTAL DEMAND LOAD		=	15,328	VA	(PER NEC 220.82)
TOTAL DEMAND AMPS		=	73.69	AMPS	125A @ 208Y/1PH SERVICE

PANEL 'KING STUDIO'

LOCATION: STUDIO, STUDIO WIDE, ADA | VOLTAGE: 208Y/120V 1ø 3W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS

TYPE: SQUARE-D | MAINS: 125A ☒ MLO ☐ MCB | MOUNTING: SURFACE

FED FROM: DISTRIBUTION PANEL | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	DISPOSAL	1	12	12	12	1/2"	20/1	1.00	A	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	2
3	DISHWASHER	1	12	12	12	1/2"	20/1	1.00	B	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	4
5	MICROWAVE		12	12	12	1/2"	20/1	1.00	A	1.17	20/1	12	12	12	1/2"		RECEPTACLE – BATHROOM	6
7	REFRIGERATOR	1	12	12	12	1/2"	20/1	1.00	B	1.17	20/1	12	12	12	1/2"		LIGHTS	8
9	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	A	1.62	20/2	–	–	–	–		PTAC	10
11	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	B	1.62	–	–	–	–	–		–	12
13	COOK TOP		12	12	12	3/4"	20/2	2.00	A	–	20/1	–	–	–	–		SPARE	14
15	–		12	–	–	–	–	2.00	B	–	20/1	–	–	–	–		SPARE	16
17	RECEPTACLE – KITCHEN	2	12	12	12	12	20/1	1.00	A	–	20/1	–	–	–	–		SPARE	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PER UNIT CALACULATION	18.46 KVA		100%	18.46 KVA

NOTES:
1)PROVIDE GFCI CIRCUIT BREAKER
2)CIRCUIT TO BE INSTALLED IN ADA ROOMS ONLY

TOTAL DEMAND LOAD: 18.46 KVA
TOTAL DEMAND AMPS: 73.69 AMPS

HOTEL/RESIDENTIAL UNIT KING SUITE ELECTRICAL SERVICE LOAD SUMMARY

500	SQUARE FT. x 3 VA	=	1,500	VA	(GENERAL LTG/RECEP LOAD PER NEC 220.84(C)
1,500	VA x 2	=	3,000	VA	(SMALL APPLIANCE LOAD)
1,200	VA x 1	=	1,200	VA	(DISHWASHER)
800	VA x 1	=	800	VA	(DISPOSAL)
840	VA x 1	=	840	VA	(REFRIGERATOR)
8,000	VA x 1	=	8,000	VA	(SIM COOKING APPL LOAD PER NEC 220.84(A)(2))
TOTAL GENERAL LOAD		=	15,340	VA	
TOTAL HVAC LOAD		=	3,240	VA	(PTAC)
TOTAL CONNECTED LOAD		=	18,580	VA	
TOTAL DEMAND LOAD		=	15,376	VA	(PER NEC 220.82)
TOTAL DEMAND AMPS		=	73.92	AMPS	125A @ 208Y/1PH SERVICE

PANEL 'KING SUITE'

LOCATION: SUITE, ACC, ADA | VOLTAGE: 208Y/120V 1ø 3W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS

TYPE: SQUARE-D | MAINS: 125A ☒ MLO ☐ MCB | MOUNTING: SURFACE

FED FROM: DISTRIBUTION PANEL | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	DISPOSAL	1	12	12	12	1/2"	20/1	1.00	A	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	2
3	DISHWASHER	1	12	12	12	1/2"	20/1	1.00	B	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	4
5	MICROWAVE		12	12	12	1/2"	20/1	1.00	A	1.17	20/1	12	12	12	1/2"		RECEPTACLE – BATHROOM	6
7	REFRIGERATOR	1	12	12	12	1/2"	20/1	1.00	B	1.17	20/1	12	12	12	1/2"		LIGHTS	8
9	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	A	1.62	20/2	12	12	12	1/2"		PTAC	10
11	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	B	1.62	–	12	–	–	–		–	12
13	RANGE		8	8	10	3/4"	40/2	6.00	A	1.62	20/2	12	12	12	1/2"		PTAC	14
15	–		8	–	–	–	–	6.00	B	1.62	–	12	–	–	–		–	16
17	RECEPTACLE – KITCHEN	2	12	12	12	12	20/1	1.00	A	–	20/1	–	–	–	–		SPARE	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PER UNIT CALACULATION	18.58 KVA		100%	18.58 KVA

NOTES:
1)PROVIDE GFCI CIRCUIT BREAKER
2)CIRCUIT TO BE INSTALLED IN ADA ROOMS ONLY

TOTAL DEMAND LOAD: 18.58 KVA
TOTAL DEMAND AMPS: 73.92 AMPS

HOTEL/RESIDENTIAL UNIT QQ STUDIO ELECTRICAL SERVICE LOAD SUMMARY

445	SQUARE FT. x 3 VA*	=	1,335	VA	(GENERAL LTG/RECEP LOAD PER NEC 220.84(C)
1,500	VA x 2	=	3,000	VA	(SMALL APPLIANCE LOAD)
1,200	VA x 1	=	1,200	VA	(DISHWASHER)
800	VA x 1	=	800	VA	(DISPOSAL)
840	VA x 1	=	840	VA	(REFRIGERATOR)
8,000	VA x 1	=	8,000	VA	(SIM COOKING APPL LOAD PER NEC 220.84(A)(2))
TOTAL GENERAL LOAD		=	15,175	VA	
TOTAL HVAC LOAD		=	3,240	VA	(PTAC)
TOTAL CONNECTED LOAD		=	18,415	VA	
TOTAL DEMAND LOAD		=	15,310	VA	(PER NEC 220.82)
TOTAL DEMAND AMPS		=	73.61	AMPS	125A @ 208Y/1PH SERVICE**

PANEL 'QQ STUDIO'

LOCATION: STUDIO, STUDIO WIDE, ADA | VOLTAGE: 208Y/120V 1ø 3W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS

TYPE: SQUARE-D | MAINS: 125A ☒ MLO ☐ MCB | MOUNTING: SURFACE

FED FROM: DISTRIBUTION PANEL | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	DISPOSAL	1	12	12	12	1/2"	20/1	1.00	A	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	2
3	DISHWASHER	1	12	12	12	1/2"	20/1	1.00	B	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	4
5	MICROWAVE		12	12	12	1/2"	20/1	1.00	A	1.17	20/1	12	12	12	1/2"		RECEPTACLE – BATHROOM	6
7	REFRIGERATOR	1	12	12	12	1/2"	20/1	1.00	B	1.17	20/1	12	12	12	1/2"		LIGHTS	8
9	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	A	1.62	20/2	12	12	12	1/2"		PTAC	10
11	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	B	1.62	–	12	–	–	–		–	12
13	COOK TOP		12	12	12	3/4"	20/2	2.00	A	–	20/1	–	–	–	–		SPARE	14
15	–		12	–	–	–	–	2.00	B	–	20/1	–	–	–	–		SPARE	16
17	RECEPTACLE – KITCHEN	2	12	12	12	12	20/1	1.00	A	–	20/1	–	–	–	–		SPARE	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PER UNIT CALACULATION	18.42 KVA		100%	18.42 KVA

NOTES:
1)PROVIDE GFCI CIRCUIT BREAKER
2)CIRCUIT TO BE INSTALLED IN ADA ROOMS ONLY

TOTAL DEMAND LOAD: 18.42 KVA
TOTAL DEMAND AMPS: 73.61 AMPS

HOTEL/RESIDENTIAL UNIT Q SUITE ELECTRICAL SERVICE LOAD SUMMARY

455	SQUARE FT. x 3 VA	=	1,365	VA	(GENERAL LTG/RECEP LOAD PER NEC 220.84(C)
1,500	VA x 2	=	3,000	VA	(SMALL APPLIANCE LOAD)
1,200	VA x 1	=	1,200	VA	(DISHWASHER)
800	VA x 1	=	800	VA	(DISPOSAL)
840	VA x 1	=	840	VA	(REFRIGERATOR)
8,000	VA x 1	=	8,000	VA	(SIM COOKING APPL LOAD PER NEC 220.84(A)(2))
TOTAL GENERAL LOAD		=	15,205	VA	
TOTAL HVAC LOAD		=	3,240	VA	(PTAC)
TOTAL CONNECTED LOAD		=	18,445	VA	
TOTAL DEMAND LOAD		=	15,322	VA	(PER NEC 220.82)
TOTAL DEMAND AMPS		=	73.66	AMPS	125A @ 208Y/1PH SERVICE

PANEL 'Q SUITE'

LOCATION: SUITE ADA | VOLTAGE: 208Y/120V 1ø 3W | MIN. AIC RATING: 42K AIC | NOTES: PROVIDE TYPED WRITTEN DIRECTORY, PROVIDE GROUND & NEUTRAL BUS

TYPE: SQUARE-D | MAINS: 125A ☒ MLO ☐ MCB | MOUNTING: SURFACE

FED FROM: DISTRIBUTION PANEL | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	DISPOSAL	1	12	12	12	1/2"	20/1	1.00	A	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	2
3	DISHWASHER	1	12	12	12	1/2"	20/1	1.00	B	1.50	20/1	12	12	12	1/2"		RECEPTACLES – GENERAL	4
5	MICROWAVE		12	12	12	1/2"	20/1	1.00	A	1.17	20/1	12	12	12	1/2"		RECEPTACLE – BATHROOM	6
7	REFRIGERATOR	1	12	12	12	1/2"	20/1	1.00	B	1.17	20/1	12	12	12	1/2"		LIGHTS	8
9	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	A	1.62	20/2	12	12	12	1/2"		PTAC	10
11	RECEPTACLE – KITCHEN	1	12	12	12	1/2"	20/1	1.50	B	1.62	–	12	–	–	–		–	12
13	COOK TOP		12	12	12	3/4"	20/1	2.00	A	–	20/1	–	–	–	–		SPARE	14
15	–		12	–	–	–	–	2.00	B	–	20/1	–	–	–	–		SPARE	16
17	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	18

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
PER UNIT CALACULATION	18.46 KVA		100%	18.46 KVA

NOTES:
1)PROVIDE GFCI CIRCUIT BREAKER
2)CIRCUIT TO BE INSTALLED IN ADA ROOMS ONLY

TOTAL DEMAND LOAD: 18.46 KVA
TOTAL DEMAND AMPS: 73.66 AMPS

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GUEST ROOM LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP MODEL	FIXTURE WATTS
G1	SURFACE LED LIGHT IN ENTRY, AS SELECTED BY OWNER	OWNER SELECTED	OWNER SELECTED	120V	–	30	LED	30
G2	6" ROUND LED DOWNLIGHT IN BATHROOM, AS SELECTED BY OWNER	OWNER SELECTED	OWNER SELECTED	120V	–	30	LED	30
G3	LED SURFACE FIXTURE, WET RATED, AS SELECTED BY OWNER	OWNER SELECTED	OWNER SELECTED	120V	–	30	LED	30

NOTES:
1. ALL FIXTURES AND FINISHES SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING.
2. ALL FIXTURES SHALL INCLUDE LAMPS.

BUILDING LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP MODEL	FIXTURE WATTS
A	2'X4' LED TROFFER	TBD	TBD	120V	–	52	LED	52
B	4" SUSPENDED LED FIXTURE	TBD	TBD	120V	–	30	LED	30
C	2'X2' LED TROFFER	TBD	TBD	120V	–	40	LED	40
D1	6" ROUND LED DOWNLIGHT	TBD	TBD	120V	–	20	LED	20
D2	ROUND LED DOWNLIGHT	TBD	TBD	120V	–	30	LED	30
F	LED SURFACE WRAPAROUND WITH FROSTED ACRYLIC LENS, WHITE ACRYLIC MATTE HIGH REFLECTANCE PAINT FINISH	PHILLIPS	FSWEZ440L835-UNV	120V	–	32	LED	32
G	LED WALL WASH	TBD	TBD	120V	–	15	LED	15
H	DECORATIVE LED WALL FIXTURE, AS SELECTED BY OWNER	OWNER SELECTED	OWNER SELECTED	120V	–	35	LED	35
J	4' WALL SURFACE MOUNT WITH WRAP AROUND LENS, EMERGENCY BATTERY BACK-UP, AND OCCUPANCY SENSORS FOR AUTOMATIC STEP DOWN LIGHTING	TBD	TBD	120V	–	50	LED	50
P1	DECORATIVE PENDANT, LARGE (DIMMABLE)	OWNER SELECTED	OWNER SELECTED	120V	–	100	LED	100
P2	DECORATIVE PENDANT, SMALL (DIMMABLE)	OWNER SELECTED	OWNER SELECTED	120V	–	50	LED	50
P3	DECORATIVE PENDANT, SMALL (DIMMABLE)	OWNER SELECTED	OWNER SELECTED	120V	–	50	LED	50
T	SURFACE VAPORTITE	H.E. WILLAIMS	97-4-L95/835-FR-DRV-UNV	120V	–	81	LED	81
V	EXTERIOR LED DOWNLIGHT	TBD	TBD	120V	–	25	LED	25
W1	DECORATIVE EXTERIOR LED WALL SCONCE	TBD	TBD	120V	–	30	LED	30
WE	EXTERIOR LED WALL PACK	TBD	TBD	120V	–	30	LED	30
WP	EXTERIOR LED WALL SCONCE AT POOL	TBD	TBD	120V	–	30	LED	30
Z17	EXTERIOR POLE MOUNTED LED FIXTURE AT POOL	TBD	TBD	120V	–	150	LED	150
Z50	EXTERIOR BOLLARD FIXTURE	TBD	TBD	120V	–	32	LED	32
Z65	EXTERIOR POLE MOUNTED LED FIXTURE AT ENTRY	TBD	TBD	120V	–	20	LED	20
Z96	EXTERIOR LED STRIP LIGHT	PHILIPS	FSS430L840UNVDIM	120V	–	17	LED	17
Z97	EXTERIOR LED STRIP LIGHT	EATON	LM-10L-940-120-OD-UNV-S-SM-ST-D	120V	–	20	LED	20
Z	BACK OF HOUSE 2-HEAD EMERGENCY	DUAL LITE	EV2	120V	–	17	LED	–
X1	ARCHITECTURAL EDGELIT EXIT – SINGLE SIDED, GREEN LETTERS	DUAL LITE	LE SERIES EDGELIT EXITS	120V	–	–	LED	–
X2	ARCHITECTURAL EDGELIT EXIT – DOUBLE SIDED, GREEN LETTERS	DUAL LITE	LE SERIES EDGELIT EXITS	120V	–	–	LED	–
X3	BACK OF HOUSE COMBINATION EXIT/EM FIXTURE, GREEN LETTERS	DUAL LITE	HCX SERIES	120V	–	–	LED	–

NOTES:
1. ALL FIXTURES AND FINISHES SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING.
2. ALL FIXTURES SHALL INCLUDE LAMPS.

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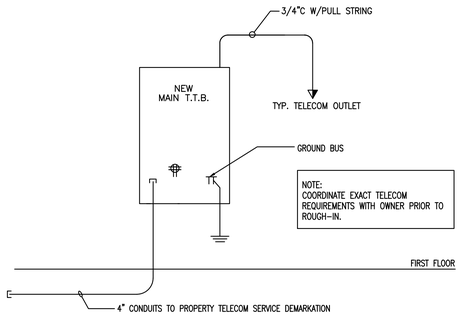
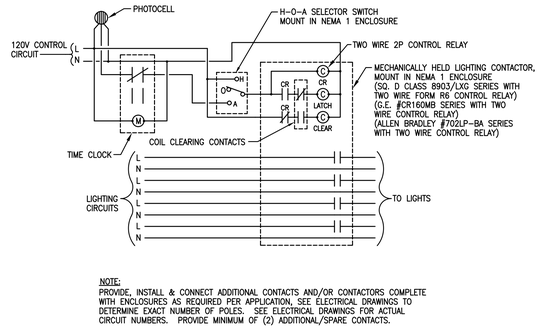
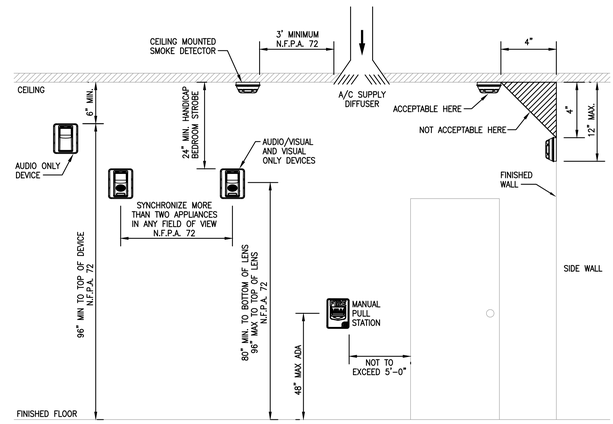


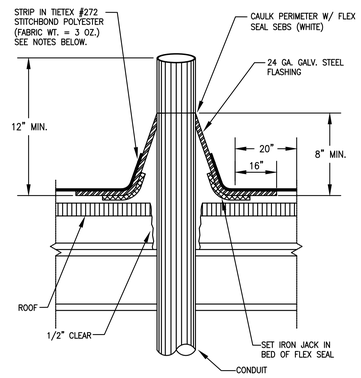
4 NTS COMMUNICATION RISER DIAGRAM



5 NTS CONTACTOR 'LC1' SCHEMATIC - PHOTOCELL & TIMECLOCK CONTROLLED



6 NTS STANDARD MOUNTING HEIGHT DETAIL

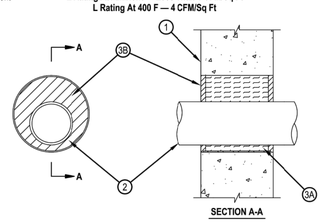


NOTES:
1. ALL SURFACES TO BE CLEAN (FREE OF DIRT, GREASE, SCALE, PAINT, ETC.)
2. WIRE BRUSH ALL LOOSE MATERIAL AS REQUIRED.
3. PRIME EXISTING ROOF AND FLASHING W/ SB ELASTOMERIC PRIMER.
4. 5 COURSE: 2 PLYS TIETEX W/ SB ELASTOMERIC GEL (FEATHER SECOND PLY) AT MIN. 40 MIL UNCURED PER COURSE.
5. TOP COAT W/ K-2 EXTREME DUTY ELASTOMER (MATCH ROOF COLOR)
6. DETAIL SHOW FOR WEATHERPROOFING PENETRATION ONLY. CONTRACTOR SHALL PROVIDE FIRESTOPPING AS REQUIRED TO MAINTAIN FIRE RATING OF ROOF.

1 NTS ROOF PENETRATION WEATHERPROOF DETAIL

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-J-1020
F Rating — 2 Hr
T Ratings — 0 and 1/4 Hr (See Item 3B)
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft



SECTION A-A

1. Wall Assembly — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be min 3/4 in. to max 3-1/2 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Conduit — Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
   B. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   C. Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:
   A. Packing Material — Mineral wool batt insulation firmly packed into opening as a permanent form. As an option to the above, backer rod and/or foamed plastic backer material may be used. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material — Sealant* — Applied within the annulus, flush with both surfaces of wall as shown in the table below:

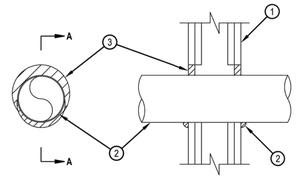
Pipe Type	Min Fill Mtl Thkns In.	F Rating Hr.	T Rating Hr.
2A	1/4	2	1/4
2B	1/2	2	0

*Bearing the UL Classification Mark

2 NTS UL FIRE RATED DETAIL (W-J-1020)

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-1175
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5-1/2 in.
   The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — One metallic tubing or conduit installed concentrically or eccentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic tube or conduit may be used:
   A. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
3. Fill Void or Cavity Material* — Putty — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, lapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening.

*Bearing the UL Classification Mark

3 NTS UL FIRE RATED DETAIL (W-L-1175)

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ELECTRICAL SPECIFICATIONS

I. GENERAL REQUIREMENTS:

A. DO ALL WORK IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE FLORIDA BUILDING CODE (FBC–2020), NFPA 70 (NEC–2020) AND NFPA 101 (LIFE SAFETY CODE–2020), AND THE REGULATIONS OF THE LOCAL UTILITY TELEPHONE, CABLE TELEVISION AND POWER UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE ENGINEER.

B. THE CONTRACTOR SHALL FURNISH, PERFORM, OR OTHERWISE PROVIDE ALL LABOR (INCLUDING, BUT NOT LIMITED TO, ALL PLANNING, PURCHASING, PAINTING, TRANSPORTING, RIGGING, HOISTING, STORING, INSTALLING, TESTING, CHASING, CHANNELING, CUTTING, TRENCHING, EXCAVATING AND BACKFILLING), COORDINATION, FIELD VERIFICATION, EQUIPMENT INSTALLATION, SUPPORT, AND SAFETY, SUPPLIES, AND MATERIALS NECESSARY FOR THE CORRECT INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS (AS DESCRIBED OR IMPLIED BY THESE SPECIFICATIONS AND THE APPLICABLE DRAWINGS).

C. ALL DRAWINGS AND SPECIFICATIONS ON THE PROJECT ARE COMPLEMENTARY, EACH TO ALL OTHER SETS, AND THEY SHALL BE USED IN COMBINATION FOR THE EXECUTION OF THIS WORK. DIVISION 16 WORK SHOWN ON ANY ONE SET OF DRAWINGS, INCLUDING ALL ARCHITECTURAL DRAWINGS, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR GENERAL WORK AND EQUIPMENT, AND DIVISION 16 WORK CALLED FOR UNDER ANY SECTION OF THE PROJECT SPECIFICATIONS, SHALL BE CONSIDERED AS INCLUDED IN THIS WORK UNLESS SPECIFICALLY EXCLUDED BY INCLUSION IN SOME OTHER BRANCH OF THE WORK. THIS SHALL INCLUDE ROUGHING–IN FOR CONNECTIONS AND EQUIPMENT AS CALLED FOR OR INFERRED. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS FOR THE PROJECT AND SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL DIVISION 16 WORK.

D. THE CONTRACTOR SHALL CAREFULLY CHECK THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND DIVISIONS BEFORE INSTALLING ANY OF HIS WORK. HE SHALL IN ALL CASES CONSIDER THE WORK OF ALL OTHER TRADES, AND SHALL COORDINATE HIS WORK WITH THEM SO THAT THE BEST ARRANGEMENTS OF ALL EQUIPMENT, PIPING, CONDUIT, DUCTS, ROUGH–IN, ETC., CAN BE OBTAINED.

E. LOCATIONS DESIGNATED FOR OUTLETS, SWITCHES, DEVICES, EQUIPMENT, ETC., ARE APPROXIMATE AND FINAL LOCATIONS SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL LOCATE ALL DEVICES UP TO 5 FEET IN ANY DIRECTION AS DIRECTED BY OWNER AND PER CODE. WHERE INSTRUCTIONS OR NOTES ARE INSUFFICIENT TO CONVEY THE INTENT OF THE DESIGN, CONSULT THE OWNER PRIOR TO BIDDING AND INSTALLATION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING THE LOCATIONS OF DEVICES TO BE USED AND COORDINATING THE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MILLWORK, SINKS, BENCHES, COUNTERS AND SHELVING PRIOR TO BIDDING AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.

G. DIVISION 16 CONTRACTOR SHALL HAVE HAD EXPERIENCE OF AT LEAST THE SAME SIZE AND SCOPE AS THIS PROJECT, ON AT LEAST TWO OTHER PROJECTS WITHIN THE LAST FIVE YEARS IN ORDER TO BE QUALIFIED TO BID THIS PROJECT.

H. CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT COST TO OWNER, PROVIDED SUCH DEFECTS OR FAILURES ARE NOT DUE TO ABUSE, NEGLECT, OR LACK OF REASONABLE AND ORDINARY MAINTENANCE.

I. ALL WORK SHALL BE EXECUTED IN A WORKMANSHIP MANNER DISPLAYING A NEAT MECHANICAL APPEARANCE UPON COMPLETION.

J. BALANCE TOTAL PHASE LOADS IN EACH ELECTRICAL PANEL TO A VALUE WITHIN 10% OF EACH OTHER.

K. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANT'S FURNISHINGS OR EQUIPMENT.

L. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, WALLS, STAIRS, MECHANICAL WORK, CURBS, GUTTERS, ETC., CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. PATCH WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.

M. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ENGINEER. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC., TO PERMIT INSPECTION AS REQUIRED.

N. IN ACCORDANCE WITH DIVISION 1 AND THE CONDITIONS OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS–BUILTS" BLUELINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING ADDENDA AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

II. ELECTRICAL SCOPE:

A. FURNISHING AND INSTALLATION OF POWER SYSTEMS, AND AUXILIARY SYSTEMS AS SHOWN OR HEREIN SPECIFIED.

B. CONNECTION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION, MENTIONED IN THIS DIVISION OR SHOWN ON DRAWINGS, WHETHER FURNISHED BY DIVISION 16 OR UNDER OTHER DIVISIONS, OR FURNISHED BY OWNER.

C. FURNISHING AND INSTALLATION OF OUTLET BOXES, CONDUIT RACEWAYS, FOR A TELEPHONE AND DATA RACEWAY DISTRIBUTION SYSTEM. (TELEPHONE AND DATA HARDWARE, AS WELL AS WIRING AND SOFTWARE IS NOT INCLUDED.)

D. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTACTING THE OFFICES OF ALL LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT IN ORDER TO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN ALL NECESSARY PERMITS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL SCHEDULED INSPECTIONS AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED DATE.

E. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP WITHOUT COST TO THE OWNER WITHIN THE STIPULATED GUARANTEED PERIOD.

F. IT SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE FOR ALL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE PERSONNEL TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.

G. SUBMIT TO THE ARCHITECT/ENGINEER PROMPTLY AFTER AWARD OF CONTRACT AND PRIOR TO PURCHASING, SIX COPIES OF MANUFACTURER'S SHOP DRAWINGS IN ACCORDANCE WITH DIVISION 1, SECTION 01300 – SUBMITTALS FOR THE FOLLOWING ITEMS. ALL SHOP DRAWINGS OF A SPECIFIC ITEM OR SYSTEM SHALL BE MADE IN ONE SUBMITTAL AND WITHIN TEN DAYS AFTER AWARD OF CONTRACT.

1. PANELBOARDS
2. SUPPORTS
3. WIRING DEVICES
4. DISCONNECT SWITCHES
5. CONDUIT
6. WIRE

H. COMPLETED WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS AND AFTER COMPLETION, PERFORM TESTS FOR INSULATION RESISTANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL WIRING SYSTEMS SHALL BE COMPLETELY AND TOTALLY "SAFED" DURING CONSTRUCTION. ONLY QUALIFIED PERSONNEL SHALL HANDLE ELECTRICAL SYSTEMS.

I. BEFORE ROUGH–IN OF CIRCUITRY OR CONNECTING TO EQUIPMENT, FURNISHED UNDER THIS DIVISION, ANY OTHER DIVISION, OR BY THE OWNER, THE CONTRACTOR SHALL VERIFY THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED AND FOR THAT SPECIFIED AND SHOWN ON THE DRAWINGS AND PROVIDE FOR PROPER ROUGH–IN AND CONNECTION.

J. THE ELECTRICAL CIRCUITS, COMPONENTS, AND CONTROLS FOR ALL EQUIPMENT ARE SELECTED AND SIZED, BASED ON THE EQUIPMENT SPECIFIED. IF SUBSTITUTIONS AND/OR EQUIVALENT EQUIPMENT ARE FURNISHED, IT SHALL BE THE RESPONSIBILITY OF ALL PARTIES CONCERNED, INVOLVED IN, AND FURNISHING THE SUBSTITUTE AND/OR EQUIVALENT EQUIPMENT TO VERIFY AND COMPARE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THAT FURNISHED TO THAT SPECIFIED AND/OR SHOWN. IF GREATER CAPACITY OR MORE MATERIALS OR LABOR IS REQUIRED FOR THE ROUGH–IN, CIRCUITRY OR CONNECTIONS THAN FOR THE ITEM SPECIFIED AND PROVIDED FOR, THEN IT SHALL BE THE RESPONSIBILITY OF THE PARTIES INVOLVED IN PROVIDING THE SUBSTITUTE AND/OR EQUIVALENT ITEMS OF EQUIPMENT TO PROVIDE ALL COMPENSATION FOR ADDITIONAL CHARGES MADE FOR THE PROPER ROUGH–IN, CIRCUITRY AND CONNECTIONS FOR THE EQUIPMENT FURNISHED. NO ADDITIONAL CHARGES ABOVE THE BASE BID SHALL BE ALLOWED FOR SUCH REVISIONS.

K. EXCAVATION FOR UNDERGROUND ELECTRICAL STRUCTURES: CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10'; PLUS A SUFFICIENT DISTANCE TO PERMIT PLACING AND REMOVAL OF CONCRETE FORMWORK, INSTALLATION OF SERVICES, OTHER CONSTRUCTION, AND FOR INSPECTION.

L. TRENCHING: EXCAVATE TRENCHES FOR ELECTRICAL INSTALLATIONS AS FOLLOWS:

1. EXCAVATE TRENCHES TO THE UNIFORM WIDTH, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM AND A MINIMUM OF 6" TO 9" CLEARANCE ON BOTH SIDES OF RACEWAYS AND EQUIPMENT.
2. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED.
3. LIMIT THE LENGTH OF OPEN TRENCH TO THAT IN WHICH INSTALLATIONS CAN BE MADE AND THE TRENCH BACKFILLED WITHIN THE SAME DAY.
4. WHERE ROCK IS ENCOUNTERED, CARRY EXCAVATION BELOW REQUIRED ELEVATION AND BACKFILL WITH A LAYER OF CRUSHED STONE OR GRAVEL PRIOR TO INSTALLATION OF RACEWAYS AND EQUIPMENT. PROVIDE A MINIMUM OF 6" OF STONE OR GRAVEL CUSHION BETWEEN ROCK BEARING SURFACE AND ELECTRICAL INSTALLATIONS.

M. THE CONTRACTOR SHALL PROVIDE ALL INSERTS FOR THE SUPPORT OF DIVISION 16 EQUIPMENT TO BE PLACED IN CONCRETE OR THROUGH CONCRETE SLABS AS CONSTRUCTION PROGRESSES. HE SHALL PROVIDE ALL MISCELLANEOUS HANGING AND SUPPORTING HARDWARE. ALL ELECTRICAL WORK IS TO BE CONCEALED IN OR BUILT INTO GENERAL CONSTRUCTION SHALL BE PLACED AS CONSTRUCTION PROGRESSES. FAILURE OF THE CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES AND THE PROJECT CONSTRUCTION PROGRESS SHALL MAKE HIM RESPONSIBLE FOR ALL COST OF CUTTING AND PATCHING, AS REQUIRED TO INSTALL WORK. NO STRUCTURAL MEMBER, MASONRY CONSTRUCTION OR FINISHED WORK SHALL BE CUT OR ALTERED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL FIRE RATE ALL PENETRATIONS THROUGH ALL FIRE RATED SLABS OR WALLS PER THE INTENDED RATING.

N. THE CONTRACTOR SHALL SUPPLY AND SET INTO PLACE ALL WALL SLEEVES FOR CONDUITS AND CEILING INSERTS FOR HANGERS IN AREAS OF NEW CONSTRUCTION AS BUILDING CONSTRUCTION PROGRESSES. INSTALL EQUIPMENT NOTED TO BE CONCEALED IN WALLS BEFORE WALLS ARE CONSTRUCTED IN ORDER THAT WALLS MAY BE CONSTRUCTED AROUND CONDUITS, ENCLOSURES, ETC.

O. METALLIC MATERIALS SHALL BE PROTECTED AGAINST CORROSION. EQUIPMENT ENCLOSURES SHALL BE GIVEN RUST–INHIBITING TREATMENT AND STANDARD FINISH BY MANUFACTURER. ALUMINUM SHALL NOT BE USED ON CONTACT WITH EARTH, AND, WHERE CONNECTED TO DISSIMILAR METAL, SHALL BE PROTECTED BY SUITABLE FITTINGS AND TREATMENT. ALL FERROUS METALS SUCH AS ANCHORS, BOLTS, BRACES, BOXES, BODIES, CLAMPS, FITTINGS, GUARDS, NUTS, PINS, RODS, SHIMS, THIMBLES, WASHERS, AND MISCELLANEOUS PARTS, NOT OF STAINLESS STEEL OR NONFERROUS MATERIALS, SHALL BE HOT–DIPPED GALVANIZED.

P. ALL CONDUITS STUBBED OUT FOR FUTURE USE SHALL HAVE A PULL WIRE INSTALLED, A PLASTIC CAP INSTALLED AND BE IDENTIFIED AS TO THE CONDUIT ORIGIN.

Q. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 16 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING AND FINISHING SHALL BE BY THE CONTRACTOR.

R. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE THE CIRCUITRY CONDUIT AND REWIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.

S. ANY PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES MADE BY THIS CONTRACTOR IN VERTICAL OR HORIZONTAL CONSTRUCTION SHALL BE SEALED AND PROTECTED BY THIS CONTRACTOR IN ORDER TO MAINTAIN THE ESTABLISHED FIRE RATING WITH METHODS AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

III. IDENTIFICATION:

A. IDENTIFICATION NAMEPLATES SHALL BE LAMINATED PLASTIC, SECURED TO EQUIPMENT WITH TWO SCREWS.

B. EACH PANELBOARD AND SWITCHBOARD SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS, SECURELY FASTENED TO THE DEVICE.

C. EACH INDIVIDUALLY MOUNTED CIRCUIT BREAKER, SWITCH, TRANSFER SWITCH, MOTOR STARTER, LIGHTING CONTACTOR, TRANSFORMER AND/OR ANY OTHER CONTROL OR PROTECTIVE DEVICE INCLUDING EQUIPMENT DISCONNECT SWITCHES SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS.

D. PANELBOARDS SHALL HAVE TYPEWRITTEN DIRECTORIES. ALL CIRCUITS TO BE IDENTIFIED BY DEVICES SERVED AND ROOM NUMBERS (I.E., LIGHTING ROOM 216). HANDWRITTEN DIRECTORIES WILL NOT BE ALLOWED.

E. EACH JUNCTION BOX CABINET OR WIREWAY LARGER THAN 6" X 6" SHALL BE EQUIPPED WITH A PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS INDICATING THE SYSTEM ENCLOSED.

F. ALL SYSTEMS JUNCTION BOXES AND CONDUIT SHALL BE COLOR CODED INSIDE AND OUTSIDE OF THE BOX PRIOR TO THE INSTALLATION OF CONDUCTORS PER THE FOLLOWING:

1. CCTV SYSTEM: GREEN
2. TELEPHONE DATA SYSTEM: BLUE
3. FIRE ALARM SYSTEM: RED

G. ENTIRE BOX INSIDE AND OUT, INCLUDING COVER, SHALL BE PAINTED PRIOR TO INSTALLING CONDUCTORS.

IV. WIRING DEVICES:

A. SWITCHES AND RECEPTACLES IN LOBBIES, CORRIDORS OR COMMERCIAL SPACES, UNFINISHED AND MECHANICAL SPACES SHALL BE 20 AMP COMMERCIAL GRADE 125 VAC. GRAY IN COLOR WITH STAINLESS STEEL COVERPLATES.

B. WEATHERPROOF RECEPTACLES SHALL BE GFCI TYPES WITH GASKETED STAINLESS STEEL KEY LOCKABLE FLIP COVER TYPE COVERPLATES. SURGE SUPPRESSION TYPE OUTLETS IN MDFS AND IDFS SHALL BE HUBBELL #83625 (BLUE) OR EQUAL.

C. RECEPTACLES PROVIDED FOR ATTACHMENT OF CORD AND PLUG EQUIPMENT SHALL BE HEAVY DUTY, SPECIFICATION GRADE, NON–INTERCHANGEABLE, FLUSH MOUNTED TYPES OF THE PROPER NEMA CONFIGURATION TO SERVE THE EQUIPMENT. NEMA CONFIGURATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF CIRCUIT CONDUCTORS. CONTRACTOR TO PROVIDE ALL CONNECTION, WIRING, PIGTAILS FOR DISHWASHERS, COOKING RANGES, OVENS AND GARBAGE DISPOSALS.

D. ALL DEVICES SHALL HAVE PROPER PLATES, CARPET FLANGES, TRIMS, RINGS, ESCUTCHEONS, ETC., AS MANUFACTURED BY SAME MANUFACTURER AS DEVICES. ANY TELEPHONE OR OTHER OUTLET WHICH IS NOT EQUIPPED WITH A PLATE FURNISHED BY OTHERS SHALL HAVE ONE PROVIDED BY THIS CONTRACTOR. DEVICE PLATES SHALL BE COLOR AND TYPE AS SHOWN BELOW.

1. FINISHED SPACES DECORA LINE:
   a. COORDINATE EXACT COLOR WITH OWNER/ARCHITECT.
2. UNFINISHED OR INDUSTRIAL OR COMMERCIAL TYPE SPACES:
   a. GRAY DEVICES
   b. STAINLESS STEEL OR STAMPED GALVANIZED STEEL ON SURFACE MOUNTED BOXES
   c. STAINLESS STEEL PLATES ON FLUSH MOUNTED BOXES

F. MOUNTING HEIGHTS ARE APPROXIMATE. THE EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED ON THE JOB AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO INSURE CORRECT INSTALLATION, I.E., OVER COUNTERS IN OR ABOVE BACK–SPLASHES, IN BLOCK WALLS, TILE, AND OTHER SPECIFIC CONSTRUCTION FEATURES. LOCATION OF OUTLETS MOUNTED IN BUILT–INS, MILLWORK, AND CABINETRY SHALL BE VERIFIED. OUTLETS MOUNTED IN KICK OR TOE SPACES SHALL BE MOUNTED HORIZONTALLY. OUTLET BOXES SHALL BE MOUNTED TO PREVENT DEVICE PLATE FROM OVERLAPPING BACKSPLASH, TRIM, TILE, ETC. LOCATE SO DEVICE PLATE WILL LAY FLAT AGAINST SURFACE COMPLETELY AROUND THE PERIMETER OF PLATE.

G. OUTLETS, OTHER THAN THOSE COORDINATED WITH COUNTER TOPS, SHELVES, AND CABINETS, SHALL BE LOCATED WITH THE CENTER LINE OF OUTLET BOXES THE FOLLOWING DISTANCE ABOVE THE FINISHED FLOOR, UNLESS OTHERWISE INDICATED:

1. RECEPTACLES, GENERAL: 1'–6" AFF
2. TELEPHONE OUTLETS: 1'–6" AFF
3. SWITCHES, GENERAL: 4'–0" AFF

V. RACEWAYS

A. SHALL BE GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. E.M.T. SHALL BE ELECTRO–GALVANIZED. CONDUITS SHALL BE AS MANUFACTURED BY REPUBLIC, PITTSBURGH STANDARD, WHEATLAND, TRIANGLE, ALLIED, OR YOUNGSTOWN.

B. SHALL BE STANDARD THREADED TYPE, GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. THREADLESS AND CLAMP TYPE NOT ACCEPTABLE. SHALL BE AS MANUFACTURED BY RACO, EFCOR, OR APPLETON.

C. SHALL BE STEEL THREADED COMPRESSION TYPE. ALL COUPLINGS AND CONNECTORS SHALL BE EFCOR OR RACO. PRESSURE INDENTED TYPE CONNECTORS OR CAST METAL WILL NOT BE APPROVED FOR ANY LOCATION.

D. CONNECTORS SHALL HAVE PLASTIC INSULATED THROAT INSERTS.

E. THE USE OF METAL CLAD CABLE IS ACCEPTABLE IN LOCATIONS AS ACCEPTED BY THE NEC AND ALL LOCAL JURISDICTIONAL CODES.

F. STEEL METAL CLAD CABLE, TYPE MC, EMPLOYING CIRCUIT CONDUCTORS #12 SOLID TO #2 AWG, SOLID OR STRANDED COPPER WITH THHN INSULATION, AN INSULATED GREEN GROUNDING CONDUCTOR AND GALVANIZED STEEL INTERLOCKED ARMOR CLADDING. THE CABLES SHALL BE SUITABLE FOR USE IN DRY LOCATIONS AT TEMPERATURES NOT EXCEEDING 90° C ON AD CIRCUITS UP TO 600 VOLTS IN ACCORDANCE WITH N.E.C., ARTICLE 330. THE CABLE SHALL BE ONE AND TWO HOUR FIRE RATED PER ANSI/UL 1479 FOR USE IN WALL, CEILING AND FLOOR ASSEMBLIES.

G. FLEXIBLE METALLIC CONDUIT RACEWAYS MAY BE USED TO CONNECT HVAC UNITS LOCATED IN INTERIOR MECHANICAL AREAS. MINIMUM SIZE 3/4".

H. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE EXCEPT THAT NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED. CONDUIT SHALL BE SIZED LARGER THAN REQUIRED ABOVE WHEN SO SHOWN ON THE DRAWINGS OR WHEN REQUIRED BY LOCAL CODE.

I. ANY CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED WITH A PLASTIC CAP AND MARKED WITH A 2" MINIMUM RED METAL TAG WHICH IDENTIFIES CONDUIT ORIGIN. CONDUITS STUBBED UP ABOVE GRADE OR ROOF SHALL BE TAGGED ON THE CONDUIT. CONDUIT STUBBED OUT BELOW GRADE SHALL BE TAGGED ON NEAREST BUILDING WALL, CURB, ETC., DIRECTLY OVER THE CONDUIT RUN. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.

VI. SCHEDULE 40 RIGID PVC:

A. CONDUIT SHALL BE COMPOSED OF POLYVINYLCHLORIDE AND SHALL BE UL RATED TYPE 40 FOR USE WITH 90EC RATED CONDUCTORS. CONDUIT SHALL CONFORM TO NEMA STANDARDS AND APPLICABLE SECTIONS OF NEC.

B. INSTALLATION OF RIGID NON–METALLIC CONDUIT SHALL COMPLY WITH ARTICLE 352 OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND THESE SPECIFICATIONS.

C. PROVIDE A CONTINUOUS, INSULATED, GROUNDING CONDUCTOR IN EVERY RIGID, NON–METALLIC RACEWAY EVEN IF NOT SHOWN ON THE DRAWINGS. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO GROUND AT EACH END OF THE RACEWAY IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70).

D. WHERE RIGID NON–METALLIC CONDUIT TRANSITIONS TO METALLIC CONDUIT, THE LOCATION OF THE TRANSITION SHALL BE UNDERGROUND.

E. NO PVC CONDUIT SHALL BE RUN EXPOSED, OR ABOVE GRADE.

VII. WIRE AND CABLE 600 VOLT:

A. CONDUCTORS SHALL HAVE CURRENT CARRYING CAPACITIES AS PER NEC AND WITH 600 VOLT INSULATION, #12 AVERAGE MINIMUM FOR 20 AMP CIRCUITS AND #14 FOR 15 AMP CIRCUITS EXCEPT FOR CONTROLS, AND FIXTURE WIRE. CONDUCTORS SHALL BE COPPER.

B. #12 AND #10 SHALL BE SOLID, TYPE THW/THWN INSULATION.

C. #8 AND LARGER, AND ANY SIZE TO MOTORS SHALL BE STRANDED TYPE THW.

D. SHALL BE MADE WITH T & B STA–KON WIRE JOINTS, PT SERIES, COMPLETE WITH INSULATING CAPS AND INSTALLED WITH WT161 TOOL OR WT2000 TOOL, IDEAL SUPER–NUTS (NOT WIRE NUTS), IDEAL WING NUTS, OR BUCHANAN ELEC. PRODUCTS B CAP OR SERIES 2000 PRES–SURE CONNECTORS COMPLETE WITH NYLON SNAP–ON INSULATORS AND INSTALLED WITH C24 PRESSURE TOOL.

E. ALL JOINTS AND SPLICES IN WIRE SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS, AND COVERED SO THAT INSULATION IS OWNER APPROVED EQUAL TO CONDUCTOR INSULATION. SPLICES SHALL NOT BE PERMITTED IN CONTROL, SECURITY, FIRE ALARM, TELEVISION OR COMMUNICATIONS SYSTEMS, OR WHERE OTHERWISE NOTED. SPLICING OF WIRE OR CABLES WILL NOT BE ALLOWED BELOW GRADE, INCLUDING IN BOXES BELOW GRADE.

F. BOTH CONDUCTORS AND CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.

G. IN INSTALLING THE MAIN ELECTRICAL SERVICE, ADDITIONAL SLACK CONDUCTORS SHALL BE PROVIDED AND TERMINATED AS REQUIRED BY ELECTRIC UTILITY FOR CONNECTION TO THEIR EQUIPMENT. FIELD COORDINATE WITH UTILITY PRIOR TO INSTALLING CONDUCTORS.

H. IN INSTALLING PARALLEL CONDUCTORS IT IS MANDATORY THAT ALL CONDUCTORS MAKING UP THE FEEDER BE EXACTLY THE SAME LENGTH, THE SAME SIZE AND THE SAME TYPE OF CONDUCTOR WITH THE SAME INSULATION. FURTHER, EACH GROUP OF CONDUCTORS MAKING UP A PHASE OR NEUTRAL MUST BE BONDED AT BOTH ENDS IN AN APPROVED MANNER.

I. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

J. CONDUCTORS SHALL BE CONTINUOUS AND UNSPLICED WHERE INSTALLED IN CONDUIT. SPLICES SHALL OCCUR ONLY WITHIN WIRING TROUGHS, WIREWAYS, JUNCTION BOXES, OUTLET BOXES, OR EQUIPMENT ENCLOSURES WHERE SUFFICIENT ADDITIONAL ROOM IS PROVIDED FOR ALL SPLICES.

K. EACH BRANCH CIRCUIT AND FEEDER CONDUCTOR SHALL BE COLOR CODED. FOR CONDUCTOR SIZES THRU NO. 6 AWG, THE INSULATION SHALL BE OF THE COLOR AS INDICATED BELOW. COLOR CODE SHALL BE STRICTLY ADHERED TO. FOR CONDUCTOR SIZES NO. 4 AWG AND LARGER, COLOR CODED PHASE TAPE MAY BE APPLIED COMPLETELY AROUND THE CONDUCTOR INSULATION WITHIN 8" OF EACH END OF THE CONDUCTOR AND IN EACH PULL OR JUNCTION BOX OR WHENEVER CONDUCTORS ARE PHYSICALLY EXPOSED TO VIEW. GROUNDING CONDUCTORS AND GROUNDED CONDUCTORS SHALL HAVE INSULATION COLOR AS INDICATED FOR SIZES THROUGH #6 AWG.
120/208 V, 3PHASE,4W

PHASE A, COLOR: BLACK
PHASE B, COLOR: RED
PHASE C, COLOR: BLUE
NEUTRAL, COLOR: WHITE
GROUND, COLOR: GREEN

VIII. GROUNDING:

A. THIS SECTION DEALS WITH THE GROUNDING OF SERVICE EQUIPMENT, TRANSFORMERS, NON–CURRENT CARRYING CONDUCTIVE SURFACES OF EQUIPMENT, METAL BUILDING, STRUCTURES AND OTHER EQUIPMENT.

B. ALL GROUNDING CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND REQUIREMENTS. SUCH CODES SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND THE INSTALLATION OF THE GROUNDING SYSTEM SHALL INSURE FREEDOM FROM DANGEROUS SHOCK EXPOSURE AND SHALL PROVIDE A LOW IMPEDANCE GROUND FAULT PATH TO PERMIT OPERATION OF OVERCURRENT AND GROUND FAULT PROTECTIVE DEVICES.

C. ALL SERVICE AND EQUIPMENT GROUNDING CONDUCTORS, AND BONDING JUMPERS SHALL BE INSULATED COPPER, TYPE THHN, THWN, OR THW CONDUCTORS (UNLESS NOTED OTHERWISE) AND SHALL BE SIZED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLES 250 AND 517 OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTORS #6 AWG AND SMALLER SHALL HAVE A GREEN COLOR INSULATION. ALL GROUNDING CONDUCTORS #4 AWG AND LARGER SHALL BE ADEQUATELY IDENTIFIED WITH A GREEN TRACER AND/OR GREEN COLORED TAPE AT EACH END OF THE GROUNDING CONDUCTOR AND AT EACH PULLBOX OR OTHER ACCESSIBLE LOCATION.

D. THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF THE FOLLOWING ITEMS BONDED TOGETHER BY THE GROUNDING ELECTRODE CONDUCTORS IN ACCORDANCE WITH NEC ARTICLE 250, PART H:

1. THE MAIN UNDERGROUND COLD WATER PIPE, IF METAL, NEC 250– 81(A)
2. METAL FRAME OF BUILDING WHERE AVAILABLE, NEC 250–81(B)
3. CONCRETE ENCASED ELECTRODE, NEC 250–81(C)
4. THE BUILDING LIGHTNING PROTECTION SYSTEM.

E. THE NEUTRAL CONDUCTOR SHALL BE GROUNDED AT THE SERVICE ENTRANCE MAIN DISCONNECT, AND AT EACH SEPARATELY DERIVED SYSTEM ONLY PER NEC ARTICLE 250.

F. A #6 (MINIMUM) INSULATED COPPER CONDUCTOR INSTALLED IN 3/4" CONCEALED CONDUIT SHALL BE CONNECTED FROM THE BUILDING GROUNDING ELECTRODE SYSTEM TO EACH BUILDING TELEPHONE TERMINAL/DATA IDF TERMINAL BOARDS, OR CABINETS, FIRE ALARM CONTROL CABINETS, CCTV SYSTEM CABINETS, EMS CABINETS, AND SECURITY SYSTEM CABINETS. TERMINATE ON AN APPROPRIATELY SIZED (8) TERMINAL MULTI–CONDUCTOR CONNECTION GROUNDING LUG LOCATED WITHIN CABINET OR ON TERMINAL BOARDS.

IX. PANELBOARDS:

A. PANELBOARDS SHALL BE DEAD FRONT TYPE AND SHALL BE IN ACCORDANCE WITH UNDERWRITERS' LABORATORIES, INC., STANDARD FOR PANELBOARDS AND ENCLOSING CABINETS AND SO LABELED.

B. PANELBOARDS SHALL BE FACTORY ASSEMBLED WITH BRANCH BREAKERS ARRANGED AS SHOWN IN SCHEDULES. BREAKERS SHALL BE NUMBERED VERTICALLY BEGINNING TOP LEFT. BREAKER NUMBERS SHALL BE PERMANENTLY ATTACHED TO TRIM. PANEL SHALL BE MINIMUM 20" WIDE OR 16" FOR RESIDENTIAL LOAD CENTERS, UNLESS SPECIFICALLY NOTED OTHERWISE.

C. ANY SPECIAL REQUIREMENTS ON THE DRAWINGS OR SCHEDULES, SUCH AS GROUND FAULT PROTECTION, ARC–FAULT CIRCUIT BREAKERS, INCREASED INTERRUPTING CAPACITY, SHUNT TRIP TYPE CIRCUIT BREAKER, FEED THRU PANELBOARDS, ETC., SHALL SUPERSEDE THESE SPECIFICATIONS, BUT ONLY INSOFAR AS THAT PARTICULAR REQUIREMENT IS CONCERNED AND AS INDICATED.

D. WIRING IN PANELBOARD GUTTERS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. WIRING SHALL BE GROUPED INTO NEAT BUNDLES AND SECURED WITH NYLON TIE WRAPS.

E. PROVIDE TYPE WRITTEN DIRECTORIES FOR EACH PANELBOARD INDICATING THE LOAD SERVED.

X. LIGHTING FIXTURES:

A. LIGHTING FIXTURES SHALL BE FURNISHED AS SHOWN ON DRAWINGS AND IN THE LIGHTING FIXTURE SCHEDULE. IT SHALL SPECIFICALLY BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXACT TYPE CEILING AND RECESSING DEPTH OF ALL RECESSED FIXTURES AND TO FURNISH THE MOUNTING TRIMS AND ACCESSORIES OF THE SPECIFIED AND/OR APPROVED FIXTURES FOR THE CEILING TO BE INSTALLED. LIGHTING FIXTURES SHALL BE PROVIDED WITH JOINER PLATES, END CAPS, RETAINING CLIPS, PLASTER FRAMES, HOUSINGS, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. ALL FIXTURES SHALL BE EQUIPPED WITH LAMPS UNLESS OTHERWISE NOTED. LAMPS SHALL BE INSTALLED NEW, IMMEDIATELY PRIOR TO FINAL INSPECTION, AND SHALL NOT BE USED FOR CONSTRUCTION.

C. FIXTURE CATALOG NUMBER REPRESENTS BASIC LUMINARY SIZE, TYPE, QUALITY AND CONFIGURATION. ACCESSORIES SHALL BE FURNISHED WITH EACH UNIT AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION. BASIC ACCESSORIES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. JOINING PLATES, END CAPS, RETAINING CLIPS, ETC.
2. TRIMS FOR RECESSED FIXTURES.
3. FIXTURE STEMS AND CANOPIES FINISHED TO MATCH FIXTURES.
4. SPECIAL MOUNTING BRACKETS, TENONS, SLIP FILTERS, CONCRETE BASES, POLES, ANCHOR BOLTS, JUNCTION BOXES, AND STANCHIONS FOR ALL EXTERIOR LIGHTING FIXTURES. PROVIDE ALL WEATHERPROOFING FOR ALL LIGHTING FIXTURES TO BE INSTALLED IN EXTERIOR LOCATIONS.

D. STRUCTURAL SUPPORT OF ALL FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

E. THE SYSTEM GROUNDING CONDUCTOR SHALL BE SECURED TO EACH FIXTURE BODY BY MEANS OF A BONDING SCREW.

F. OWNER/DEVELOPER WILL HAVE RIGHT TO RELOCATE LIGHTING FIXTURES OR LIGHTING SWITCHES WITHIN 72" OF LOCATION SHOWN ON FIRST WALK–THROUGH AT NO ADDITIONAL EXPENSE. COORDINATE THE WALK–THROUGH PRIOR TO THE INSTALLATION OF THE WIRING.

XI. FIRE ALARM SYSTEMS

A. THIS SECTION INCLUDES AUTOMATIC ADDRESSABLE VOICE EVACUATION FIRE ALARM SYSTEMS, INCLUDING FIRE ALARM CONTROL PANEL, AND REMOTE ANNUNCIATOR, MANUAL PULL STATIONS, HEAT AND SMOKE DETECTORS, FIRE ALARM AUDIO, VISUAL SIGNAL EQUIPMENT, CONTROLS, AND SURGE PROTECTION DEVICES. COORDINATE ALL WIRING AND DEVICE INTERFACES WITH OWNER'S REPRESENTATIVE. THE FIRE ALARM SYSTEM SHALL MEET THE LATEST ADOPTED EDITION OF NFPA 72 WITH ALL LOCAL AND STATE AMENDMENTS AND FEDERAL ADA REQUIREMENTS. ALL DEVICES SHALL BE WHITE IN COLOR WITH RED LETTERING.

B. GENERAL: COMPLETE, ZONED, NONCODED, ADDRESSABLE, MICROPROCESSOR–BASED FIRE DETECTION ALARM SYSTEM WITH MANUAL AND AUTOMATIC ALARM INITIATION SIGNALS FROM A SUPERVISED FIRE ALARM SOUND DISTRIBUTION SYSTEM. DEVICES LOCATED OUTDOORS SHALL BE SPECIFICALLY DESIGNED FOR EXTERIOR SERVICE. PROVIDE BATTERY BACK–UP BASED UPON TOTAL LOAD PER NFPA 72. ALARM SHALL ACHIEVE A MINIMUM OF 80 DB THROUGHOUT OCCUPIABLE SPACES AND MEET ADA REQUIREMENTS.

C. TRANSMISSION TO REMOTE CENTRAL STATION: PROVIDE WIRING TO AUTOMATICALLY ROUTE AN ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO THE CENTRAL STATION SERVICE TRANSMITTER LOCATED IN MAIN FIRE ALARM CONTROL PANEL USING LISTED AND APPROVED EQUIPMENT. PROVIDE ALL NECESSARY WIRING CONNECTION BY THIS CONTRACTOR.

D. GENERAL ALARM: A SYSTEM GENERAL ALARM INCLUDES:

1. INDICATING THE GENERAL ALARM CONDITION AT THE FACP AND THE INTEGRAL ANNUNCIATOR.
2. IDENTIFYING THE DEVICE THAT IS THE SOURCE OF THE ALARM AT THE FACP AND THE ANNUNCIATOR.
3. INITIATING AUDIBLE AND VISIBLE ALARM SIGNALS THROUGHOUT THE BUILDING.
4. STOPPING HVAC SUPPLY AND RETURN FANS.
5. INITIATING TRANSMISSION OF ALARM SIGNAL TO REMOTE CENTRAL STATION.
6. MANUAL STATION ALARM OPERATION INITIATES A GENERAL ALARM.
7. SMOKE OR HEAT DETECTION INITIATES A GENERAL ALARM.

E. INSTALLER QUALIFICATIONS: A CERTIFIED FACTORY–TRAINED TECHNICIAN IS TO PERFORM THE WORK OF THIS SECTION, MAKING UP ALL TERMINAL CABINETS, INSTALLING ALL SURGE SUPPRESSORS, AND INCLUDING LANDING AND TESTING EACH WIRE, MOUNTING AND CONNECTING ALL DEVICES, PROGRAMMING THE MAIN FACP, TROUBLE SHOOTING AND CERTIFYING THE FINAL SYSTEM. THE CONTRACTOR SHALL BE CURRENTLY LICENSED BY THE STATE OF FLORIDA FOR FIRE ALARM WORK, AND SHALL BE A CERTIFIED FACTORY–TRAINED TECHNICIAN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY FIRE ALARM PERMITS FROM AUTHORITY HAVING JURISDICTION.

F. FIRE ALARM DEVICES AND EQUIPMENT TO BE INSTALLED OUTDOORS IN EXTERIOR LOCATIONS SHALL BE SPECIFICALLY DESIGNED AND U.L. LISTED AS WEATHER AND WATERPROOF. PROVIDE WEATHERPROOF NEOPRENE GASKETS BETWEEN WALL MOUNTING SURFACE AND FIRE ALARM DEVICE FOR ALL DEVICES MOUNTED OUTDOORS.

G. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. ALL DEVICES SHALL BE PROVIDED FOR AND MANUFACTURED BY SIMPLEX, EST, NOTIFIER, OR PYROTRONICS.

H. DESCRIPTION: DOUBLE–ACTION NON–BREAK GLASS, ADDRESSABLE TYPE, FABRICATED OF METAL OR PLASTIC, AND FINISHED IN WHITE WITH MOLDED, RAISED–LETTER OPERATING INSTRUCTIONS OF RED COLOR. ADDRESS OF UNIT SHALL BE FIELD–SETTABLE WITHOUT SPECIAL TOOLS.

I. INITIATION CIRCUITS (LOOP): INITIATION LOOP CONDUCTORS SHALL BE WEST PENN #D991 FOR 3000'–0" IN LENGTH AND LESS. WEST PENN #D995 SHALL BE USED FOR CIRCUITS OVER 3000'–0" IN LENGTH. BELOW GRADE, WET OR DAMP LOCATION INSTALLED CABLE, INCLUDING CABLE INSTALLED ON THE TOP OF EXTERIOR WALKWAYS, SHALL BE WEST PENN AQUASEAL MULTI–CONDUCTOR (14 GAUGE), UNLESS NOTED OTHERWISE, SHALL BE INSTALLED IN CONDUIT.

J. SIGNAL CIRCUITS: SIGNAL CIRCUITS SHALL BE #12 AWG THWN 19 STRAND COPPER.

K. ANNUNCIATOR CIRCUITS: #12 AWG THWN 19 STRAND COPPER.

L. EACH AND EVERY WIRE SHALL BE LABELED AT EACH END WITH SLC #, CHANNEL # OR SIGNAL #. EACH SEPARATE CIRCUIT, INITIATION, SIGNAL AND AUXILIARY SHALL HAVE A SPECIFIC NUMBER. LABEL EACH CONDUCTOR BY THIS CIRCUIT NUMBER AT THE CONTROL CONNECTIONS AND AT EACH TERMINAL CONNECTION IN THE TERMINAL CABINETS.

M. PROVIDE COMPLETE SIGNAL, SPEAKER DATA LOOP AND POWER SIDE SURGE SUPPRESSION MODULES ON ALL WIRING ENTERING OR LEAVING EACH BUILDING. THE CONTRACTOR SHALL REPAIR ANY DAMAGED COMPONENTS OR WIRING DUE TO TRANSIENT VOLTAGE SURGES FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION DATE AT NO ADDITIONAL COST.

N. PROVIDE RELAYS FOR OTHER LOCAL CONTROL SUCH AS HVAC SHUTDOWN AND/OR STAIR PRESSURIZATION FAN INITIATION, ROLL–UP DOOR ACTIVATION, FIRE/SMOKE DAMPER RELEASE OR SMOKE EVACUATION INITIATION. RELAYS SHALL BE 10 AMP RATED RELAYS. UPON ACTIVATION OF THE FIRE ALARM SYSTEM, THE RELAY SHALL ACTIVATE AND SHUTDOWN THE CONTROLLED EQUIPMENT. LOCATE ALL RELAYS WITHIN 36" OF EQUIPMENT CONTROLLED. PROVIDE WEATHERPROOF UNITS WHERE INDICATED OR INSTALL IN WEATHERPROOF BOXES.

O. PROVIDE REMOTE AUDIO/VISUAL POWER SUPPLY AND BATTERY CHARGER IN A SELF–CONTAINED LOCKABLE CABINET. PROVIDE (4) STYLE Y NOTIFICATION CIRCUITS, AND AN INTEGRAL BATTERY CHARGER. PROVIDE UNIT WITH INTEGRAL 120 VOLT INPUT A/C POWER AND INTEGRAL LEAD ACID BATTERY. PROVIDE SURGE SUPPRESSION FOR 120 VOLT BRANCH CIRCUIT AND PROVIDE A 20 AMP 125 VAC SPECIFICATION GRADE KEY TYPE SWITCH TO CONTROL THE POWER TO THE SIGNAL EXPANDER FOR MAINTENANCE. IDENTIFY THE 120 VOLT CIRCUIT SERVING THE SWITCH (I.E. PANELBOARD AND BRANCH CIRCUIT NUMBER).

P. PROVIDE A FLUSH MOUNTED LCD REMOTE ANNUNCIATOR. UNIT SHALL BE NO LARGER THAN 12" TALL X 16" LONG, AND SHALL BE COMPLETELY FLUSH MOUNTED IN THE MAIN LOBBY OF THE FACILITY.

Q. INSTALLATION: CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING RELAYS, CONTROLS AND ASSOCIATED DEVICES AND DETECTORS FOR PHASE I AND PHASE II RECALL PER FLORIDA BUILDING CODE (FBC) REQUIREMENTS AND STATE ELEVATOR INSPECTOR REQUIREMENTS.

R. WIRING METHOD: INSTALL WIRING IN METAL RACEWAY. CONCEAL RACEWAY EXCEPT IN UNFINISHED SPACES AND AS INDICATED.

S. NO FIRE ALARM CONDUCTORS SHALL BE INSTALLED BELOW GRADE WITH THE EXCEPTION OF CONDUCTORS ROUTED FROM BUILDING TO BUILDING, AS NOTED, OR WHERE ABSOLUTELY NECESSARY AND WITH PRIOR WRITTEN PERMISSION OF THE OWNER AND ENGINEER. ALL OTHER WIRING SHALL BE OVERHEAD INSTALLED IN CONCEALED CONDUIT MINIMUM 1/2". NO UNDERGROUND, ON GROUND OR UNDERGROUND SPLICES IN PULL BOXES WILL BE ALLOWED.

T. MOUNTING BOXES FOR SPEAKERS/HORN/STROBES, CONTROL AND MONITOR MODULES SHALL BE INSTALLED IN DEEP JUNCTION BOXES WITH EXTENSION RING ATTACHED.

U. MINIMUM SYSTEM TESTS: TEST THE SYSTEM ACCORDING TO THE PROCEDURES OUTLINED IN NFPA 72. MINIMUM REQUIRED TESTS ARE AS FOLLOWS:

1. VERIFY THE ABSENCE OF UNWANTED VOLTAGES BETWEEN CIRCUIT CONDUCTORS AND GROUND.
2. MEGGER TEST ALL CONDUCTORS OTHER THAN THOSE INTENTIONALLY AND PERMANENTLY GROUNDED WITH ELECTRONIC COMPONENTS DISCONNECTED. TEST FOR RESISTANCE TO GROUND. REPORT READINGS OF LESS THAN 1–MEGOHM FOR EVALUATION.
3. TEST ALL CONDUCTORS FOR SHORT CIRCUITS UTILIZING AN INSULATION–TESTING DEVICE.
4. WITH EACH CIRCUIT PAIR, SHORT CIRCUIT AT THE FAR END OF THE CIRCUIT AND MEASURE THE CIRCUIT RESISTANCE WITH AN OHMMETER. RECORD THE CIRCUIT RESISTANCE OF EACH CIRCUIT ON THE RECORD DRAWINGS.
5. VERIFY THE CONTROL UNIT IS IN THE NORMAL CONDITION AS DETAILED IN THE MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL.
6. TEST INITIATING AND INDICATING CIRCUITS FOR PROPER SIGNAL TRANSMISSION UNDER OPEN CIRCUIT CONDITIONS. ONE CONNECTION EACH SHOULD BE OPENED AT NOT LESS THAN 10 PERCENT OF THE INITIATING AND INDICATING DEVICES. OBSERVE PROPER SIGNAL TRANSMISSION ACCORDING TO CLASS OF WIRING USED.
7. TEST EACH INITIATING AND INDICATING DEVICE FOR ALARM OPERATION AND PROPER RESPONSE AT THE CONTROL UNIT. TEST SMOKE DETECTORS WITH ACTUAL PRODUCTS OF COMBUSTION.
8. TEST THE SYSTEM FOR ALL SPECIFIED FUNCTIONS ACCORDING TO THE MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL. SYSTEMATICALLY INITIATE SPECIFIED FUNCTIONAL PERFORMANCE ITEMS AT EACH STATION INCLUDING MAKING ALL POSSIBLE ALARM AND MONITORING INITIATIONS AND USING ALL COMMUNICATIONS OPTIONS. FOR EACH ITEM, OBSERVE RELATED PERFORMANCE AT ALL DEVICES REQUIRED TO BE AFFECTED BY THE ITEM UNDER ALL SYSTEM SEQUENCES. OBSERVE INDICATING LIGHTS, DISPLAYS, SIGNAL TONES, AND ANNUNCIATOR INDICATIONS. OBSERVE ALL VOICE AUDIO FOR ROUTING, CLARITY, QUALITY, FREEDOM FROM NOISE AND DISTORTION, AND PROPER VOLUME LEVEL.
9. TEST BOTH PRIMARY POWER AND SECONDARY POWER. VERIFY, BY TEST, THE SECONDARY POWER SYSTEM IS CAPABLE OF OPERATING THE SYSTEM FOR THE PERIOD AND IN THE MANNER SPECIFIED.

V. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN ONE YEAR OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON–SITE ASSISTANCE IN ADJUSTING SOUND LEVELS AND ADJUSTING CONTROLS AND SENSITIVITIES TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO FIVE PREPAID VISITS TO THE SITE FOR THIS PURPOSE.

W. PROVIDE THE SERVICES OF A FACTORY–AUTHORIZED SERVICE REPRESENTATIVE TO DEMONSTRATE THE SYSTEM AND TRAIN OWNER'S MAINTENANCE PERSONNEL AS SPECIFIED BELOW:

1. TRAIN OWNER'S MAINTENANCE PERSONNEL IN THE LOCATION OF DEVICES, BOXES, PROCEDURES AND SCHEDULES INVOLVED IN OPERATING, TROUBLESHOOTING, SERVICING, AND PREVENTIVE MAINTAINING OF THE SYSTEM. PROVIDE A MINIMUM OF 4 HOURS TRAINING. TRAINING SHALL INCLUDE A COMPLETE PROJECT WALKDOWN WITH OWNER'S AUTHORIZED REPRESENTATIVE TO IDENTIFY DEVICE LOCATIONS, JUNCTION BOX LOCATIONS AND SURGE SUPPRESSION MODULE LOCATIONS.
2. SCHEDULE TRAINING WITH THE OWNER AT LEAST SEVEN WORKING DAYS IN ADVANCE.

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