

APPLICABLE CODES	
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THE CONTRACTOR SHALL COMPLY WITH THE LATEST APPLICABLE EDITIONS OF THE FOLLOWING:

- FLORIDA STATE FIRE MARSHAL'S RULE CHAPTER 69A-3.012 FAC AND RULE CHAPTER 69A-50.005 (FAC)
- NFPA 101 LIFE SAFETY CODE (2018 EDITION)
- 7TH EDITION FLORIDA BUILDING CODE (2020)
- NFPA-70 – NATIONAL ELECTRICAL CODE (2017)
- NFPA-72 – NATIONAL FIRE ALARM CODE (2016)
- NFPA 110 – STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS (2016)
- U.L. – UNDERWRITER'S LABORATORIES
- NEMA – NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
- ASTM – AMERICAN SOCIETY FOR TESTING AND MATERIALS
- IEEE – INSTITUTE OF ELECTRICAL AND ELECTRICAL ENGINEERS
- ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
- ADA – AMERICANS WITH DISABILITIES ACT
- NFPA-780 – LIGHTNING PROTECTION (2017)
- FLORIDA STATUTE SECTION 633.022

HEIGHTS AND LOCATIONS	
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FIRE ALARM HORN/STROBES AND STROBES	6'-8" TO BOTTOM OF STROBE LENS
LIGHTING SWITCHES	46" TO CENTER
WALL MOUNTED TELEPHONE	46" TO CENTER
ACCESS CONTROL CARD READER	44" TO CENTER
FIRE ALARM PULL STATIONS	42" TO ACTIVATING LEVER
RECEPTACLES	18" TO CENTER
OTHER DEVICES	18" TO CENTER
OVER COUNTER RECEPTACLE	42" TO CENTER

COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.









































ELECTRICAL SHEET LIST	
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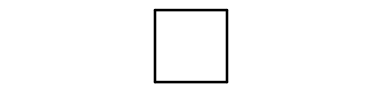
SHEET NO.	SHEET DESCRIPTION
E 1	ELECTRICAL LEGEND, AND GENERAL NOTES
E 2	ELECTRICAL SCHEDULES
E 3	ELECTRICAL SITE PLAN
E 4	FIRST FLOOR LIGHTING PLAN – NEW WORK
E 5	FIRST FLOOR POWER PLAN – NEW WORK
E 6	FIRST FLOOR SYSTEMS PLAN – NEW WORK
E 7	ELECTRICAL ROOF PLAN – NEW WORK
E 8	ELECTRICAL ENLARGED ROOMS
E 9	ELECTRICAL ENLARGED KITCHEN
E 10	ELECTRICAL ONE–LINE DIAGRAM
E 11	ELECTRICAL ONE–LINE DIAGRAM
E 12	ELECTRICAL RISER DIAGRAM
E 13	PANELBOARD SCHEDULES
E 14	PANELBOARD SCHEDULES
E 15	ELECTRICAL DETAILS
E 16	ELECTRICAL DETAILS
E 17	ELECTRICAL DETAILS
E 18	PHOTOMETRICS PLAN – NORMAL
E 19	PHOTOMETRICS PLAN – EMERGENCY
E 20	LIGHTING CONTROLS
E 21	LIGHTING CONTROLS

GENERAL ELECTRICAL NOTES	
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1. ALL ELECTRICAL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE CODES, THE AMERICANS WITH DISABILITIES ACT, AND THE FLORIDA BUILDING CODE.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK SHALL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BID.
3. THE CONTRACTOR IS DIRECTED TO OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDUM TO COORDINATE THE RELATED WORK AND SCHEDULING.
4. THE CONTRACTOR IS REMINDED THAT ELECTRICAL SERVICE TO AND FOR MECHANICAL AND OTHER EQUIPMENT ARE BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED. ANY MODIFICATION TO THE ELECTRICAL, BASED UPON ACTUAL EQUIPMENT SELECTION, SHALL RESULT IN NO ADDITIONAL COST TO THE OWNER.
5. MECHANICAL AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORK TO BE PERFORMED BY OTHER TRADES AND THE PHYSICAL CHARACTERISTICS OF THE STRUCTURE IN ORDER TO SCHEDULE AND INSTALL EQUIPMENT AND TO MINIMIZE POSSIBLE INTERFERENCE. FAILURE TO PROPERLY COMMUNICATE AND SCHEDULE WORK WITH OTHER TRADES RESULTING IN ADDITIONAL WORK AND MATERIAL, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE MODIFICATIONS REQUIRED TO RESOLVE THE CONFLICT SHALL BE DECIDED BY THE ENGINEER.
6. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
7. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
8. ALL CONDUCTOR METAL SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN. (MINIMUM SIZE SHALL BE #12AWG.) CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
9. ALL LIGHT SWITCHES AND DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMPERE AT 125/277 VOLTS A/C. WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL OR APPROVED EQUAL. PROVIDE BARRIERS AT 277V SWITCHES WHERE REQUIRED BY N.E.C. ARTICLE 404.8(b).
10. ALL ELECTRICAL WIRING DEVICES INDICATED TO BE INSTALLED IN MASONRY WALLS OR FLOORS SHALL BE FLUSH MOUNTED, INCLUDING BRANCH CIRCUIT PANELBOARDS, UNLESS OTHERWISE NOTED. THE CONDUITS TO ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE CONCEALED IN WALLS OR FLOOR.
11. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE FIXTURE SCHEDULE IS FOR REFERENCE ONLY. MODEL NUMBERS LISTED MAY NOT INCLUDE ALL REQUIRED OPTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. EQUAL FIXTURES OF OTHER MANUFACTURERS MAY BE SUBSTITUTED AS EQUAL. ALL SUBSTITUTIONS ARE SUBJECT TO APPROVAL AS EQUAL BY THE ENGINEER.
13. ALL EXIT LIGHTS SHALL BE PROVIDED WITH UNIVERSAL MOUNTING BRACKETS. THE CONTRACTOR SHALL VERIFY ALL DIRECTIONAL ARROWS PRIOR TO ORDERING FIXTURES.
14. ALL RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS SHALL BE TENTED TO COMPLY WITH THE APPLICABLE CEILING RATING. THE CONTRACTOR SHALL VERIFY REQUIREMENTS.
15. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL SUBCONTRACTOR TO ENSURE THAT ALL NECESSARY CONDUITS FOR AIR CONDITIONING CONTROLS ARE INCLUDED. IT IS THE ELECTRICAL SUBCONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EQUIPMENT IS WIRED PROPERLY AND ALL CONTROLS ARE OPERATIONAL. THE ELECTRICAL SUBCONTRACTOR SHALL FURNISH ALL MATERIALS NOT SUPPLIED BY THE MECHANICAL SUBCONTRACTOR.
16. COMMUNICATION CONDUITS ARE TO BE LONG RADIUS TYPE AND SHALL CONTAIN PULL WIRES. PROVIDE PLATES FOR ALL OUTLETS.
17. ALL SPECIAL PURPOSE OUTLETS SHALL BE PROVIDED TO MATCH EQUIPMENT TO BE SUPPLIED.
18. THE PLANS INDICATE THE DESIRED ARRANGEMENT AND GENERAL LOCATIONS OF LIGHT FIXTURES. THE ARCHITECTURAL PLANS INDICATE ADDITIONAL DATA AS TO THE FINAL FIXTURE PLACEMENT.
19. ALL PANELBOARDS, SWITCHES AND CIRCUIT BREAKERS SHALL BE ITE, SQUARE D, GE, OR CUTLER HAMMER. MATCH EXISTING DEVICES IN BRAND, MODEL, TYPE, VOLTAGE, AND AIC RATING. CONTRACTOR SHALL PERFORM A FULL AND THOROUGH INVESTIGATION OF FACILITY TO DEVELOP BUDGET FOR OWNER.
20. ALL CONDUITS SHALL HAVE A GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
21. ANY EXISTING UTILITIES LOCATED IN THE AREA OF CONSTRUCTION WHICH REQUIRE RELOCATION BY THE OWNER SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF TEN DAYS IN ADVANCE.
22. ALL DISCONNECT SWITCHES SHALL BE THE HEAVY DUTY TYPE WITH BUSSMAN TIME DELAY, DUAL ELEMENT AND CURRENT LIMITING FUSES.
23. THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL DRAWINGS AND ESPECIALLY ELEVATIONS FOR EXACT LOCATION AND/OR DIMENSIONS FOR INSTALLATION OF ALL ELECTRICAL ITEMS. ALL QUESTIONABLE LOCATIONS SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. IN REGARDS TO FURNITURE, COORDINATE LOCATIONS OF WIRING DEVICES WITH VOIDS UNDER DESKS/RETURNS.
24. ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
25. ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
26. ALL EXIT FIXTURES SHALL BE CONNECTED TO THE LIFE SAFETY BRANCH PANEL UNSWITCHED.
27. ALL SURGE PROTECTED OUTLETS SHALL BE EQUAL TO HUBBELL #3352 IS.
28. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
29. THE FIRE ALARM MANUFACTURER SHALL PROVIDE CERTIFIED TECHNICIAN TO SUPERVISE THE INSTALLATION, FINAL CONNECTIONS AND TESTING OF THE FIRE ALARM SYSTEM. AT THE COMPLETION OF THE PROJECT, THE MANUFACTURER SHALL INSPECT THE SYSTEM AND CERTIFY THAT IT IS INSTALLED IN ACCORDANCE WITH NFPA 72. ALL FIRE ALARM COMPONENTS SHALL COMPLY WITH ADA REQUIREMENTS.
30. THE CONTRACTOR SHALL VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES.
31. PER N.E.C. SECTION 517, BOND ALL PANELBOARDS OF DIFFERENT BRANCHES SERVING THE SAME PATIENT SPACE. REFER TO RISER DIAGRAMS.
32. WHEN RUNNING CONDUIT PARALLEL TO RATED WALLS, MAINTAIN 6" CLEARANCE FROM WALL FOR INSPECTION PURPOSES.
33. CONFIRM LOCATIONS OF CAMERAS WITH OWNER PRIOR TO INSTALLATION.
34. ALL LIGHTING FIXTURES SHALL BE LISTED AND LABELED.
35. FOR LOW VOLTAGE, PREFERRED SYSTEM IS CAT 6.
36. THE CONTRACTOR SHALL SUBMIT, AT THE TIME OF PERMIT, SEPARATELY ENGINEERED (BY DELEGATE) FIRE ALARM SYSTEM DRAWINGS IN ACCORDANCE WITH FAC 61G15-30.003. ANY RELATED DRAWINGS IN THIS ENGINEERING DOCUMENT SET ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED TO RECEIVE AGENCY REVIEWS, COMMENTS, AND INTERPRETATIONS ONLY.
37. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

ELECTRICAL SYMBOL LEGEND (NOT ALL DEVICES NECESSARILY USED)

A.F.F.	ABOVE FINISHED FLOOR		PENDANT FIXTURE (SEE FIXTURE SCHEDULE)
A.F.G.	ABOVE FINISHED GRADE		PENDANT FIXTURE W I R E D TO LIFE SAFETY BRANCH (SEE FIXTURE SCHEDULE)
ATR	ALL THREADED ROD		
C	CONDUIT		
CATV	CABLE TELEVISION		AREA SHOWN FOR REFERENCE ONLY. THIS AREA, ADJACENT TO THE PRIMARY AREA OF WORK, MAY CONTAIN UTILITIES INDIRECTLY AFFECTED BY WORK ELSEWHERE. REFER TO PLANS FOR ANY SPECIFIC DETAILS
CCTV	CLOSED CIRCUIT TELEVISION		
CR	CRITICAL BRANCH		
CT	CONTACTOR	\$	WALL SWITCH.
DD	DUSK TO DAWN		WALL DIMMER.
DISTRIB.	DISTRIBUTION		WALL DIMMER WITH OCCUPANCY SENSOR.
EF	EXHAUST FAN		WALL OCCUPANCY SENSOR.
EMS	ENERGY MANAGEMENT SYSTEM		CEILING OCCUPANCY SENSOR.
EQ	EQUIPMENT BRANCH		EQUIPMENT SCHEDULE NOTATION
FAAP	FIRE ALARM ANNUNCIATOR PANEL		TRANSFORMER – SEE SCHEDULE FOR RATING
FACP	FIRE ALARM CONTROL PANEL		MOTOR
FATC	FIRE ALARM TERMINAL CABINET		COMBINATION MOTOR STARTER / VFD SEE SCHEDULE FOR RATING
FAVC	FIRE ALARM VOICE CABINET		DISCONNECT SWITCH SEE SCHEDULE FOR RATING
FF	FINISHED FLOOR		120/208V PANELBOARD
GFI	GROUND FAULT INTERRUPT		277/480V PANELBOARD
IDF	INTERMEDIATE DISTRIBUTION FRAME (VOICE)	↓	GROUND CONNECTION
LB	FITTING "L"–BACK		EXHAUST FAN
LS	LIFE SAFETY BRANCH		GROUND TYPE DUPLEX RECEPTACLE 120V–20A. +18" AFF UNLESS NOTED OTHERWISE
MCB	MAIN CIRCUIT BREAKER		GROUND TYPE DOUBLE DUPLEX RECEPTACLE 120V–20A. MOUNT IN TWO GANG OUTLET BOX 18" AFF UNLESS OTHERWISE NOTED.
MDF	MAIN DISTRIBUTION FRAME (VOICE)		JUNCTION PULL BOX
MTR	MAIN TELECOMMUNICATIONS ROOM		TELE/ COMMUNICATIONS OUTLET
N	NORMAL BRANCH		TELE/ COMMUNICATIONS OUTLET IN FLUSH FLOOR BOX FLUSH FLOOR BOX
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT		CEILING MOUNTED COMMUNICATIONS OUTLET.
PMT	PAD MOUNTED TRANSFORMER		PUSH BUTTON STATION (ONE OR MORE BUTTONS) "P" INDICATES PRIVACY TYPE "K" INDICATES KEY–OPERATED
SCA	SHORT CIRCUIT AMP		FIRE ALARM SPEAKER / STROBE
S.P.D.T.	SINGLE POLE, DOUBLE THROW		FIRE ALARM SPEAKER
TTB	TELEPHONE TERMINAL BOARD		FIRE ALARM HORN / STROBE
TC	TIME CLOCK		FIRE ALARM STROBE LIGHT ONLY.
TELE.	TELEPHONE		CEILING MOUNTED FIRE ALARM STROBE LIGHT ONLY.
TELECOMM	TELECOMMUNICATIONS		FIRE ALARM PULL STATION
TR	TELECOMMUNICATIONS ROOM		COMBINATION FIXED TEMPERATURE AND RATE OF RISE HEAT DETECTOR
SPD	SURGE PROTECTIVE DEWCO (X = LEVEL OF PROTECTION)		CEILING MOUNTED SMOKE DETECTOR (PHOTO ELECTRIC TYPE)
TX/TRANSF	TRANSFORMER		DUCT MOUNTED SMOKE DETECTOR (PHOTO ELECTRIC TYPE)
TYP.	TYPICAL		FIRE ALARM SHUT–DOWN RELAY
UNO	UNLESS NOTED OTHERWISE		SMOKE DETECTOR REMOTE INDICATOR / RESET
VFD	VARIABLE FREQUENCY DRIVE		
PT	PATIENT TELEMETRY		
WAP	WIRELESS ACCESS POINT		
W/	WITH		
W/O	WITH OUT		
WP	WEATHERPROOF		
S.T.	SHUNT TRIP ACTIVATION		
P.T.S.	PNEUMATIC TUBE SYSTEM		
————	CONDUIT ROUTED EXPOSED		
-----	CONDUIT ROUTED UNDERGROUND		
-----	INDICATES EXISTING WORK TO BE REMOVED/DEMO		
-----	INDICATES EXISTING WORK TO REMAIN		
-----	INDICATES NEW WORK		
	LIGHTING FIXTURE (SEE FIXTURE SCHEDULE)		
	LIGHTING FIXTURE W I R E D TO LIFE SAFETY BRANCH (SEE FIXTURE SCHEDULE)		
	LIGHTING FIXTURE W I R E D TO LIFE SAFETY BRANCH LIFE SAFETY BRANCH		
	STRIP FIXTURE (SEE FIXTURE SCHEDULE)		
	STRIP FIXTURE W I R E D TO LIFE SAFETY BRANCH (SEE FIXTURE SCHEDULE)		
	DOWNLIGHT FIXTURE (SEE FIXTURE SCHEDULE)		
	DOWNLIGHT FIXTURE W I R E D TO LIFE SAFETY BRANCH (SEE FIXTURE SCHEDULE)		



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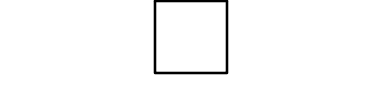


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Bidding, Permit and Construction

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