

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	LAMP(S)				FIXTURE WATTS	VOLTAGE	DIMMABLE	PROVIDED BY	INSTALLED BY	MOUNTING / COMMENTS	BASIS OF DESIGN
		TYPE	NOM LUMEN	COLOR	CRI							
[L1]	2x4 TROFFER	LED	3000	3500	80+	25.4	120/277	10% 0-10V	E.C.	E.C.	LAY-IN TILE	MARK ARCHITECTURAL LIGHTING - WHSPR
[L2]	6" DOWNLIGHT	LED	3000	3000	80+	34.8	120/277	10% 0-10V	E.C.	E.C.	RECESSED MOUNT IN CEILING	LITHONIA - LDM6
[L3]	STRIP LIGHT	LED	4000	3500	80+	27.6	120/277	NO	E.C.	E.C.	SURFACE MOUNT ON CEILING	LITHONIA - CLX
[L4]	STAIRWELL LIGHT	LED	4079	3500	80+	40	120/277	NO	E.C.	E.C.	WALL MOUNTED, BUILT-IN OCC. SENSOR	LUMINAIRELED - TSL 93
[L5]	EXT. 6" DOWNLIGHT	LED	850	4000	80+	12.9	120	10% 0-10V	E.C.	E.C.	EXTERIOR RECESSED MOUNT IN CANOPY	LITHONIA - WFB
[L6]	EXT. WALL SCONCE	LED	4102	4000	80+	48	120	10% 0-10V	E.C.	E.C.	EXTERIOR WALL MOUNTED	LUMINIS - SY600
[L7]	EXT. UPLIGHT	LED	2154	4000	80+	20	120	NO	E.C.	E.C.	INGRADE	HYDREL - M9400C
[RH]	REMOTE HEAD	LED	-	-	-	-	3.6	NO	E.C.	E.C.	EXTERIOR WALL ABOVE FIRE EXIT	LITHONIA - ERE
[EM]	EMERGENCY LIGHT	LED	-	-	-	-	120	NO	E.C.	E.C.	WALL MOUNTED	LITHONIA - EU2L
[EX]	EXIT SIGN	LED	-	-	-	-	120	NO	E.C.	E.C.	RECESSED MOUNT IN CEILING	LITHONIA - EDGR

NOTES:
 1) VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS AND OWNER BEFORE INSTALLATION.

GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
- THE CONTRACTOR WILL VISIT THE SITE AND BE FAMILIAR WITH SITE CONDITIONS. NO EQUIPMENT OR MATERIAL IS TO BE ORDERED OR FABRICATED PRIOR TO FIELD VERIFICATION OF ALL MEASUREMENTS, CLEARANCES, POTENTIAL CONFLICTS WITH EXISTING CONDITIONS OR THAT OF OTHER TRADES ON THE JOB.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA CONSTRUCTION CODE & ITS ADOPTED AMENDMENTS, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRIC CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND INTERNATIONAL PLUMBING CODE. (LATEST EDITIONS ADOPTED).
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER ON ALL MAJOR EQUIPMENT, MATERIALS, & FIXTURES FOR REVIEW PRIOR TO PURCHASING.
- QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDED OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- IF CONFLICTS EXIST, PRIORITY OF LOCATION IN RELEVANT CALLING GRID SHALL BE AS FOLLOWS FROM HIGH TO LOW: LIGHTS, SMOKE/HEAT DETECTOR, FIRE ALARM DEVICES.

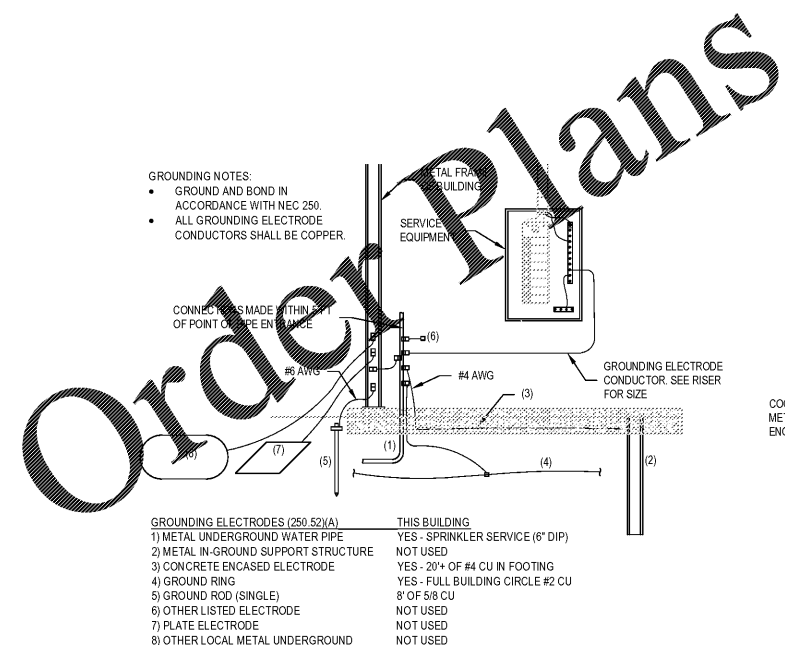
ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS THE APPLICABLE UNIFORM CONSTRUCTION CODE AND LOCAL ORDINANCES.
- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SPECIFICALLY LISTED IN THE FEEDER TABLE.
 - ALL CABLEING SHALL BE IN PVC CONDUIT WHERE UNDERGROUND. IN EMT WHERE EXPOSED. IN GRC WHERE EXPOSED TO DAMAGE. WITH THINWALL CONDUCTORS WITH A FULL SIZE GROUNDING CONDUCTOR. CONCEALED CABLEING IN DRY LOCATIONS MAY BE FMC CABLE WITH FULL SIZE GROUNDING CONDUCTOR.
 - ALL CIRCUITS SHALL BE MINIMUM WIRE SIZE OF #12 AWG CU EXCEPT FOR SIGNAL AND CONTROL WIRING UNON.
 - EC SHALL FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE WHETHER OR NOT THEY ARE INDICATED ON PLANS. EC SHALL INSTALL AND CONNECT POWER WIRING TO EQUIPMENT FURNISHED BY OTHERS AND SHALL WIRE LINE VOLTAGE THERMOSTATS FOR MECHANICAL EQUIPMENT AS WELL AS LINE SIDE OF ALL STARTERS, RELAYS, AND CONTACTORS FOR MECHANICAL EQUIPMENT.
 - EC SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
 - MULTI-WIRE CIRCUITS (NEUTRAL SHARING) ARE PROHIBITED FROM THE ENTIRE PROJECT UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER.
 - EC SHALL WIRE ALL BATTERY BACKED BALLAST, SECURITY RECEPTACLES, SENSORS, EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF ANY SWITCHES. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE FED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA. BATTERIES MUST BE POWERED AT ALL TIMES.
 - DRAWINGS ARE DIAGRAMMATIC. PRIOR TO BIDDING VERIFY CONDITIONS, LOCATIONS AND REQUIREMENTS IN THE FIELD TO ENSURE A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. EXAMINE ALL CONTRACT DWGS. FOR REQUIREMENTS AFFECTING WORK OF THE ELECTRICAL TRADE.
 - QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDED OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
 - COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF THE OUTLET BOXES, JUNCTION BOXES, AND EQUIPMENT DISCONNECTION TO AGREE WITH REQUIRED LOCATIONS OF FURNISHINGS OF EQUIPMENT SERVED. GENERALLY, RECEPTACLES SHALL BE MOUNTED 18" AFF AND LIGHT SWITCHES AT 42" AFF. UNON.
 - ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD IN EACH PANEL TO PROVIDE THE MOST EVEN DISTRIBUTION PRACTICAL.
 - EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL ON, TIMECLOCK OFF ARRANGEMENT, UNON.
- EC - ELECTRICAL CONTRACTOR
 AFG - ABOVE FINISHED GRADE
 UNON - UNLESS OTHERWISE NOTED
- AFF - ABOVE FINISHED FLOOR
 ETR - EXISTING TO REMAIN

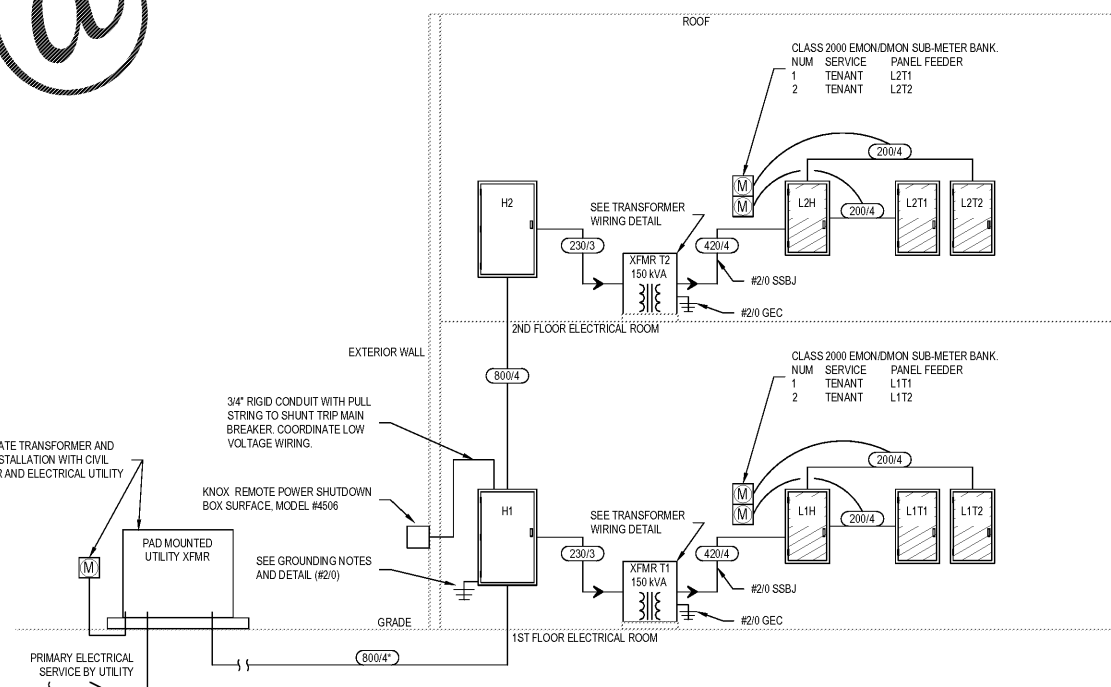
ELECTRICAL CONNECTION SCHEDULE

TAG	DESCRIPTION/ LOCATION	CIRCUIT	ELECTRICAL				FEEDER	DISCONNECT SWITCH	REMARKS
			VOLTS-PH	FLA	MCA	MOCP			
[RTU-1]	HVAC - ROOF	H2-1,3,5	480-3	61.5	66	80	(3) #4 + #8G	100A - 3P	NEMA 3R
[RTU-2]	HVAC - ROOF	H2-7,9,11	480-3	61.5	66	80	(3) #4 + #8G	100A - 3P	NEMA 3R
[RTU-3]	HVAC - ROOF	H2-2,4,6	480-3	61.5	66	80	(3) #4 + #8G	100A - 3P	NEMA 3R
[RTU-4]	HVAC - ROOF	H2-8,10,12	480-3	61.5	66	80	(3) #4 + #8G	100A - 3P	NEMA 3R
VAV-1.1	HVAC - 1ST LOBBY	L1H-21,23,25	208-3	25	27	35	(2) #8 + #12G	40A - 3P	INTEGRAL
VAV-1.2	HVAC - 1ST CORRIDOR	L1H-27	120-1	-	1	20	(2) #12 + #12G	20A - 1P	INTEGRAL
VAV-2.1	HVAC - 2ND LOBBY	L2H-11,13,15	208-3	19	23	25	(3) #10 + #10G	30A - 3P	INTEGRAL
VAV-2.2	HVAC - 2ND CORRIDOR	L2H-17	120-2	1	1	15	(2) #12 + #12G	20A - 1P	INTEGRAL
[EH-1]	HEATER RISER ROOM	H1-2	120-1	4.2	4.2	20	(2) #12 + #12G	-	INTEGRAL
[EH-2]	STAIRWELL HEATER	H1-3	277-1	17.3	21.6	25	(2) #10 + #10G	-	INTEGRAL
[EH-3]	STAIRWELL HEATER	H1-4	277-1	17.3	21.6	25	(2) #10 + #10G	-	INTEGRAL
[RU-1]	HVAC - ROOF	L2H-1	208-1	15	15	20	(2) #12 + #12G	30A - 2P	NEMA 3R
[RU-2]	HVAC - ROOF	L2H-6,8	208-1	15	15	20	(2) #12 + #12G	30A - 2P	NEMA 3R
[RU-3]	HVAC - ROOF	L2H-6,8	208-1	15	15	20	(2) #12 + #12G	30A - 2P	NEMA 3R
[ELV-1]	ELEVATOR	H1-1,3,5	480-3	40	56	100	(3) #4 + #8G	100A - 3P	NEMA 1
[ELV-2]	ELEVATOR	L1H-9,11	208-1	25	27	30	(2) #8 + #10G	30A - 2P	NEMA 3R

NOTES:
 1) COORDINATE EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT.
 2) COMPLETE CONNECTION BETWEEN INDOOR AND OUTDOOR UNITS. SEAL, CORD, AND CAULK PENETRATIONS.
 3) HACR BREAKER AND FACTORY DISCONNECT
 4) NEMA 1, NON-FUSED DISCONNECT



1 GROUNDING DETAIL
 NOT TO SCALE



2 ELECTRICAL RISER DIAGRAM
 NOT TO SCALE

FEEDER TABLE

CONDUCTORS BASED ON THINWALL AND 75° LUGS
 CONDUIT BASED ON 4 CONDUCTORS IN SCH. 80 PVC.
 NOT TO BE USED FOR BRANCH CIRCUITS

Q = QUANTITY OF CONDUCTORS

AMPCACITY 420/4

(200/4) * = SERVICE FEEDER, NO EQUIPMENT GROUND REQUIRED

SIZE	COPPER FEEDER, COPPER GND.
35/0	(Q) #10 & #10 GND. IN 3/4" C.
50/0	(Q) #8 & #10 GND. IN 3/4" C.
65/0	(Q) #8 & #8 GND. IN 1" C.
85/0	(Q) #4 & #8 GND. IN 1-1/4" C.
100/0	(Q) #3 & #8 GND. IN 1-1/4" C.
115/0	(Q) #2 & #8 GND. IN 1-1/2" C.
130/0	(Q) #1 & #8 GND. IN 2" C.
150/0	(Q) #10 & #6 GND. IN 2" C.
175/0	(Q) #20 & #6 GND. IN 2" C.
200/0	(Q) #30 & #6 GND. IN 2-1/2" C.
230/0	(Q) #40 & #4 GND. IN 2-1/2" C.
255/0	(Q) #250 & #4 GND. IN 3" C.
285/0	(Q) #300 & #4 GND. IN 3" C.
310/0	(Q) #350 & #3 GND. IN 3" C.
335/0	(Q) #400 & #3 GND. IN 4" C.
380/0	(Q) #500 & #3 GND. IN 4" C.
420/0	(Q) #600 & #2 GND. IN 4" C.
510/0	2 SETS: (Q) #250 & #2 GND. IN 3" C. EACH
570/0	2 SETS: (Q) #300 & #1 GND. IN 3" C. EACH
620/0	2 SETS: (Q) #350 & #10 GND. IN 3" C. EACH
670/0	2 SETS: (Q) #400 & #10 GND. IN 4" C. EACH
760/0	2 SETS: (Q) #500 & #10 GND. IN 4" C. EACH
800/0	2 SETS: (Q) #600 & #10 GND. IN 4" C. EACH
1000/0	3 SETS: (Q) #400 & #20 GND. IN 4" C. EACH
1200/0	3 SETS: (Q) #600 & #30 GND. IN 4" C. EACH
1600/0	4 SETS: (Q) #800 & #40 GND. IN 4" C. EACH
2000/0	5 SETS: (Q) #800 & #50 GND. IN 4" C. EACH

FES PROJECT: 20007

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RENEWED MEDICAL BUILDING
 CORE & SHELL ONLY
 SOUTH FULTON, GEORGIA
 PROJECT #19-2983



BRIAN J. FAGAN - PROFESSIONAL ENGINEER
 GA LICENSE NUM: 32550 - EXP: 12/31/2020

MARCH 27, 2020
 PERMIT SET
 RELEASE DATE

Electrical Notes and Details

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Drawn By: CH JS
 Checked By: BF
 PROJECT # 19-2983
 SHEET 3 OF 3

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