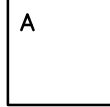
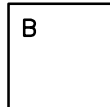
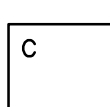
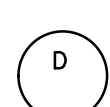
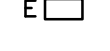
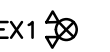


GENERAL ELECTRICAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ELECTRICAL LAYOUTS FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
2. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ALL EQUIPMENT PROVIDED BY OTHERS. USE LATEST EDITION OF VENDOR DRAWINGS FOR MODEL NUMBERS AND REQUIREMENTS FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR A COMPLETE OPERABLE SYSTEM.
3. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
4. CONTRACTOR SHALL VERIFY VOLTAGES AVAILABLE PRIOR TO ROUGHING IN.
5. MOUNTING HEIGHTS AS INDICATED ON DRAWINGS SHALL BE FROM THE FINISHED FLOR TO THE CENTER LINE OF THE OUTLET BOX.
6. PANELBOARD AND SAFETY DISCONNECTS SHALL BE EASILY ACESIBLE AND MAINTAIN ALL SERVICE CLEARANCE PER NEC.
7. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTER-RELATIONSHIP AND REQUIRED COORDINATION BETWEEN TRADES.
8. ALL WORK SHALL CONFORM TO APPLICABLE NEC, LOCAL BUILDING CODES, AND STATE HEALTH REGULATIONS HAVING JURISDICTION, AND STATE AMENDMENTS TO BUILDING CODE.
9. IN AREAS WHERE ELECTRICAL OUTLETS ARE LOCATED BENEATH A WINDOW AND THE WINDOW PREVENTS ROUTING OF CONDUIT UP THE WALL; CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
10. ALL CONDUIT ROUTED FROM PANELBOARD TO DISCONNECTS AT EXTERIOR HVAC UNITS OR ANY OTHER EQUIPMENT SHALL BE ROUTED BELOW GRADE. TRANSITION FROM GRADE TO EQUIPMENT TO MAKE A SEALTIGHT CONNECTION.
11. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
12. ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
13. ALL RECEPTACLES LOCATED WITHIN 6'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C 210-B.A.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
14. COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
15. PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
16. ALL THHN / THWN WIRE SHALL HAVE A FACTORY INSTALLED COLOR CODED OUTER JACKET. CONTRACTOR IS TO NOTE THAT ALL FEEDER CONDUCTORS SHALL HAVE FULL COLOR CODED OUTER JACKET INTEGRAL TO THE CONDUCTOR INSULATION. USE OF COLOR PHASING TAPE IS NOT ALLOWED.
17. ALL RECEPTACLES AND SWITCHES SHALL BE SIDEWIRED. CONTRACTOR MY ELECT TO USE FACTORY TERMINATED MALE / FEMALE QUICK CONNECTS. (P&S "PLUGTAIL" OR EQUAL).
18. ALL LOW VOLTAGE SYSTEMS WHICH HAVE UNDERGROUND CONDUIT / CONDUCTORS ROUTED OUTSIDE OF THE BUILDING FOOTPRINT SHALL HAVE LIGHTNING PROTECTION SURGE MODULES LOCATED AT EACH END OF LOW VOLTAGE CABLING.
19. ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL BE PERMANENT MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.
20. ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED. CAP OFF ALL STUB UP CONDUIT, INSTALL LABEL NOTING LOCATION OF CONDUIT STUB OUT.
21. ALL LOW VOLTAGE CONDUCTORS NOT IN CONDUIT SHALL BE PLENUM RATED. ALL TY-WRAPPS SUPPORTING SUCH SHALL BE PLENUM RATED. PROVIDE J-HOOKS AND SUPPORT MEANS AS REQUIRED.
22. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, PLUMBING, SPRINKLER AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR POWER REQUIREMENTS AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
23. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
24. ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
25. PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS, OR CLAMPS FOR THE PROPER SUPPORT OF ALL CONDUIT. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING WILL BE PERMITTED.
26. UPON COMPLETION OF THE WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE RECORD DOCUMENTS WHICH SHOW ALL ELECTRICAL INSTALLED UNDER THIS CONTRACT.
27. CONSTRUCTION SHALL NOT COMMENCE UNTIL FINAL APPROVAL FROM AUTHORITY HAVING JURISDICTION AND REVISED PLANS REFLECT ANY AND ALL COMMENTS.

LIGHT FIXTURE SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER-SERIES/MODEL OR BUILDING STANDARD	LAMP	REMARKS
	2X2 LED, LAY-IN	LITHONIA OR EQUAL	45W LED	LAY-IN 120V
	2X2 LED, SURFACE	LITHONIA OR EQUAL	45W LED	SURFACE 120V
	2X2 LED LAY-IN, DIMMABLE	LITHONIA OR EQUAL	45W LED	LAY-IN, DIMMABLE 120V
	UFO HIGH-BAY LED	LITHONIA OR EQUAL	100W LED	SUSPENDED 120V
	SLIM WALL PACK	LITHONIA OR EQUAL	75W LED	WALL MOUNTED 120V
	EXIT SIGN W/ EM	LED WITH DUAL HEAD EMERGENCY EXIT SIGN, BATTERY	INCL	120V BATTERY
	REMOTE EGRESS EMERGENCY LIGHT	LED WITH EMERGENCY REMOTE	INCL	120V BATTERY
	REMOTE EGRESS EMERGENCY LIGHT	LED WITH DUAL HEAD EMERGENCY REMOTE	INCL	120V BATTERY

1. SUBMIT LIGHT FIXTURE DATA TO OWNER FOR APPROVAL.
2. COLOR OF FIXTURES BY OWNER.
3. WATTAGE SHOWN IS MAXIMUM PERMITTED.

ELECTRICAL LEGEND (ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)						
SYMBOL	DESCRIPTION	MTG. HT. TO CENTERLINE	SYMBOL	DESCRIPTION	MTG. HT. TO CENTERLINE	
LIGHTING FIXTURES & DEVICES			ABBREVIATIONS			
A* 	LIGHT FIXTURE TYPE DESIGNATION- SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING AND LAMP TYPE.	AS NOTED	A	AMPERE	120V/1/60	
	INCANDESCENT, FLUORESCENT OR H.I.D. FIXTURE, ON NORMAL BRANCH CIRCUIT.		ABC	ABOVE COUNTER		
	WALL MOUNTED (INCANDESCENT, FLUORESCENT, OR H.I.D.) FIXTURE ON NORMAL BRANCH CIRCUIT.		A/C	AIR CONDITIONER		
	EXIT SIGN WITH BATTERY PACK, DUAL EM HEAD. PROVIDE ARROWS AS INDICATED.		ADA	AMERICANS WITH DISABILITIES ACT		
	EXIT SIGN WITH BATTERY PACK. PROVIDE ARROWS AS INDICATED.		AFF	ABOVE FINISHED FLOOR		
	DOUBLE HEAD EMERGENCY EGRESS FIXTURE WITH BUILT IN BATTERY PACK.	WALL MOUNT 7'-6" A.F.F.	AFG	ABOVE FINISHED GRADE		
	REMOTE EGRESS EMERGENCY HEAD	WALL MOUNT 7'-6" A.F.F.	AIC	AMPERES INTERRUPTING CURRENT		
S3	SINGLE-POLE SWITCH (K=KEY OPERATED, P= WITH PILOT LIGHT, & WP=NEMA 3R WEATHER-PROOF DEVICE)	WALL MOUNT 7'-6" A.F.F.	AWG	AMERICAN WIRE GAUGE		
S3	THREE-WAY SWITCH (SEE TYPE ABBREVIATIONS)	46" A.F.F.	B	BLANK OFF DEVICE. PROVIDE 3/4" CONDUIT MINIMUM TO ABOVE ACCESSIBLE CEILING AND BUSH. PROVIDE NYLON PULL STRING.		
S4	FOUR-WAY SWITCH (SEE TYPE ABBREVIATIONS)	46" A.F.F.	C	CONDUIT		
Soc	SINGLE-POLE SWITCH WITH OCCUPANCY SENSOR		CL	CENTERLINE		
	PHOTO ELECTRIC CELL		CB	CIRCUIT BREAKER		
TELEPHONE/DATA SYSTEM			CT	CURRENT TRANSFORMER		
	TELEPHONE/DATA OUTLET (W=WALL MOUNTED AT 4'6", WITH MIN. 3/4 " EMPTY CONDUIT, WITH PULL WIRE, EXTENDING TO ACCESSIBLE SPACE FROM OUTLET BOX.	18" A.F.F.	CU	COPPER		
	TELEPHONE/DATA OUTLET AT SPECIAL MTG. HEIGHT (HT= TELEPHONE FOR HANDICAPED USE, MOUNT 46" AFF) WITH MIN. 3/4 " EMPTY CONDUIT, WITH PULL WIRE, EXTENDING TO ACCESSIBLE CEILING SPACE FROM OUTLET BOX.	54" A.F.F. (U.O.N.)	EDF	ELECTRIC DRINKING FOUNTAIN		
	TELEPHONE/DATA FLOOR BOX		EF	EXHAUST FAN		
	TELEPHONE TERMINAL BOARD		EH	ELECTRIC HEATER		
	HDMI RECEPTACLE	TBD	EW	ELECTRIC WATER HEATER		
MECHANICAL EQUIPMENT			EWC	ELECTRIC WATER COOLER		
	MOTOR (HORSEPOWER AS NOTED)		FLA	FULL LOAD AMPS		
	FRACTIONAL HORSEPOWER		G	GROUND		
	EXHAUST FAN		GFI	GROUND FAULT INTERRUPTER		
WIRING DEVICES			HID	HIGH INTENSITY DISCHARGE		
	120 VOLT DUPLEX RECEPTACLE. NEC 250.118 COMPLIANT.	18" A.F.F.	HZ	HERTZ		
	120 VOLT DUPLEX RECEPTACLE. 20 AMPS U.O.N. (WP = NEMA 3R, ST = SAFETY SWITCH) (GFI = GROUND FAULT INTERRUPTER)	18" A.F.F.	IECC	INTERNATIONAL ENERGY CONSERVATION CODE		
	120 VOLT DUPLEX RECEPTACLE AT SPECIAL MTG. HEIGHT (SEE TYPE ABBREVIATIONS ABOVE.)	54" A.F.F. (U.O.N.)	KCMIL	THOUSAND CIRCULAR MILS		
	120 VOLT QUADRAPLEX RECEPTACLE (SEE TYPE ABBREVIATIONS ABOVE.)	18" A.F.F.	KVA	KILOVOLT-AMPERE		
	120 VOLT QUADRAPLEX RECEPTACLE AT SPECIAL MTG. HEIGHT. (SEE ABBREVIATIONS ABOVE.)	44" AFF (U.O.N.)	KW	KILOWATT		
	SINGLE RECEPTACLE, VOLTS, PHASE AND AMPS AS NOTED. NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT. TYPICALLY 208/240 VOLT CIRCUIT.	18" A.F.F. (U.O.N.)	LED	LIGHT EMITTING DIODE		
	JUNCTION BOX	AS NOTED	MCB	MAIN CIRCUIT BREAKER		
	MANUAL MOTOR STARTING SWITCH (WP=NEMA 3R WEATHERPROOF, T=THERMAL TYPE)	46" A.F.F. (U.O.N.)	MLO	MAIN LUGS ONLY		
	120 VOLT DUPLEX FLOOR BOX	NO MORE THAN 6'-7" AFF	MTD	MOUNTED		
CONDUIT			N	NEUTRAL		
	CONDUIT CONCEALED ABOVE CLG. OR IN WALL		NC	NORMALLY CLOSED		
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB (WHERE USED OUTSIDE=UNDERGROUND)		NEC	NATIONAL ELECTRIC CODE		
	HOME RUN TO PANELBOARD INDICATES (MIN.2#12,12G IN 3/4"C.		NF	NON-FUSED		
	CONDUCTORS TO LIGHT SWITCHES		OC	ON CENTER		
	CONDUCTORS CONNECTING LIGHTS ON SAME CIRCUIT WITH DIFFERENT CONTROLS		OFCl	OTHERS FURNISHED CONTRACTOR INSTALLED		
DISTRIBUTION EQUIPMENT			RGS	RIGID GALVANIZED STEEL		
	NON-FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/ENCLOSURE). NEMA 1. IF NOT NOTED RT=NEMA 3R).	AS NOTED	TC	TIME-CLOCK		
	FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/FUSE/ENCLOSURE). NEMA 1 IF NOT NOTED RT=NEMA 3R).	AS NOTED	TTB	TELEPHONE TERMINAL BOARD		
	PANELBOARD-SURFACE MOUNTED		V	VOLT		
	PANELBOARD-RECESS MOUNTED	AS NOTED	VA	VOLT-AMPERES		
	LIGHTING CONTACTOR		VAC	VOLTS ALTERNATING CURRENT		
CONDUIT			UON	UNLESS OTHERWISE NOTED		
	CONDUIT CONCEALED ABOVE CLG. OR IN WALL		WAP	WIRELESS ACCESS POINT		
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB (WHERE USED OUTSIDE=UNDERGROUND)		WP	WEATHERPROOF (NEMA 3R)		
	HOME RUN TO PANELBOARD INDICATES (MIN.2#12,12G IN 3/4"C.		XFMR	TRANSFORMER		
	CONDUCTORS TO LIGHT SWITCHES		3P	THREE POLE		
	CONDUCTORS CONNECTING LIGHTS ON SAME CIRCUIT WITH DIFFERENT CONTROLS		3PH	THREE PHASE		
DISTRIBUTION EQUIPMENT			4W	FOUR WIRE		
	NON-FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/ENCLOSURE). NEMA 1. IF NOT NOTED RT=NEMA 3R).	AS NOTED	30/3	30 AMPERE, 3-POLE		
	FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/FUSE/ENCLOSURE). NEMA 1 IF NOT NOTED RT=NEMA 3R).	AS NOTED	120/1/60	VOLTAGE/PHASE/FREQUENCY		
	PANELBOARD-SURFACE MOUNTED		MARK STANDARDS			
	PANELBOARD-RECESS MOUNTED	AS NOTED		CONSTRUCTION NOTE		
	LIGHTING CONTACTOR			DEMOLITION NOTE		
CONDUIT				ITEMS THAT ARE EXISTING		
	CONDUIT CONCEALED ABOVE CLG. OR IN WALL			ITEMS THAT ARE TO BE RELOCATED		
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB (WHERE USED OUTSIDE=UNDERGROUND)			ITEMS THAT ARE TO BE REMOVED		
	HOME RUN TO PANELBOARD INDICATES (MIN.2#12,12G IN 3/4"C.		SECURITY			
	CONDUCTORS TO LIGHT SWITCHES			CEILING MOUNTED SECURITY MOTION DETECTOR		
	CONDUCTORS CONNECTING LIGHTS ON SAME CIRCUIT WITH DIFFERENT CONTROLS			WALL MOUNTED SECURITY MOTION DETECTOR		
DISTRIBUTION EQUIPMENT				WALL MOUNTED REQUEST TO EXIT MOTION SENSOR		
	NON-FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/ENCLOSURE). NEMA 1. IF NOT NOTED RT=NEMA 3R).	AS NOTED		DOOR POSITION SWITCH		
	FUSIBLE SAFETY SWITCH SIZE & TYPE AS NOTED (VOLTS/POLES/AMPS/FUSE/ENCLOSURE). NEMA 1 IF NOT NOTED RT=NEMA 3R).	AS NOTED		MAGNETIC LOCK		
	PANELBOARD-SURFACE MOUNTED			VIDEO INTERCOM STATION		
	PANELBOARD-RECESS MOUNTED	AS NOTED		VERTICAL ROD		
	LIGHTING CONTACTOR			INTERGRAL REQUEST TO SIT		
CONDUIT				VIDEO SURVEILLANCE CAMERA		
	CONDUIT CONCEALED ABOVE CLG. OR IN WALL			SECURITY CARD READER		
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB (WHERE USED OUTSIDE=UNDERGROUND)			ELECTRIC STRIKE		
	HOME RUN TO PANELBOARD INDICATES (MIN.2#12,12G IN 3/4"C.			ELECTRONIC LATCH RETRACTION		
	CONDUCTORS TO LIGHT SWITCHES			INTRUSION KEYPAD		
	CONDUCTORS CONNECTING LIGHTS ON SAME CIRCUIT WITH DIFFERENT CONTROLS			WANDER GUARD		
DISTRIBUTION EQUIPMENT				POWER TRANSFER HINGE		



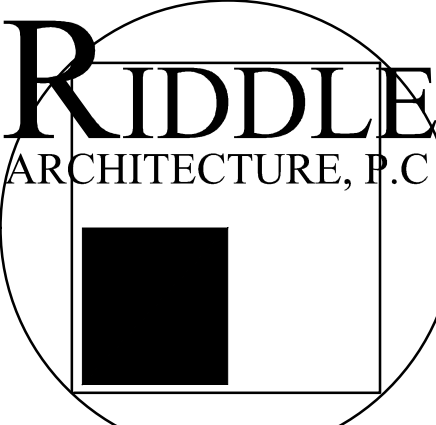
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FOR:

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AMERICAN
INSTITUTE
OF
ARCHITECTS

497 BROOMSEDGE COURT
BOLIVIA, NC
28422
(404) 285-8646

TITLE: ELECTRICAL
SCHEDULES

JOB #: 2501

DATE: 09.11.26

SHEET #

E3