



Member of the American  
Institute of Architects

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## COLUMBUS COUNTY COURTHOUSE

113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA



19035

ISSUED: 8/8/2022

DWG BY: DS

CKD BY: BEB

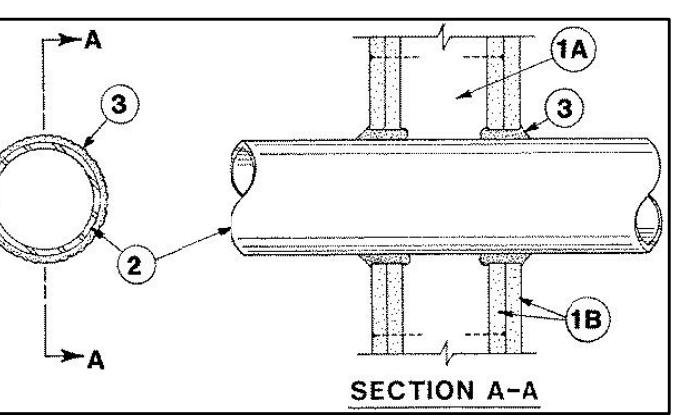
REVISIONS

ENGINEER  
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SHEET NO.  
**E-1.0**

System No. W-L-1001  
F Ratings — 1, 2, 3 and 4 hr (See Items 2 and 3)  
T Ratings — 0, 1, 2, 3, and 4 hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft  
L Rating At 400 F — less than 1 CFM/sq ft



1. **Wall Assembly** — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. **Gypsum Boards** — Nom 1/2 or 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 UL Fire Resistance Directory. Max diam of opening is 26 in.

2. **Through-Penetrant** — On metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The smaller space between pipe, conduit, tubing and periphery of opening shall be min 3/8 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 24 in. diam (or smaller) service weight (or heavier) cast iron pipe; nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** — Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Products** — **Flexible Metal Piping** — The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**OMEGA FLEX INC**

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**GASTITE, DIV OF TITEFLEX**

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**WARD MFG LLC**

**FILL, Void or Gasket Material** — **Caulk or Sealant** — Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thicknesses of foam, 2, 3 and 4 in. thicknesses, respectively, applied around the face of the wall. Min 1/4 in. disc lead or disc lead with cork applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type of wall assembly and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in	F RATING Hr	T RATING Hr
1	1 or 2	0 or 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

\*When copper pipe is used, T Rating is 0 hr.

**3M COMPANY** — CP 25WB+ or FB-3000 WT.

\*Bearing the UL Classification Mark

### DIVISION 16 — ELECTRICAL

#### PART 1 — GENERAL

1.1 **DESCRIPTION OF THE WORK**  
A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:

- 1. Electrical service and equipment.
- 2. Lighting and power distribution system.
- 3. Provide lighting fixtures selected by owner unless required to match.

4. Wire devices, boxes, cover plates, etc.

5. Source of power for all items of equipment.

6. Grounding.

7. Other requirements and/or systems where shown.

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards as far as they apply:

- 1. The 2017 National Electrical Code.
- 2. The National Electrical Safety Code.
- 3. Underwriters Laboratories, Inc., Standards and approved listings.
- 4. Electrical Testing Laboratories standards.
- 5. North Carolina Building Code, Latest Edition and Revisions.
- 6. All local codes and ordinances.

D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.

E. Obtain all permits, licenses, inspections, etc., required for the job and pay for them. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 **INTENT**

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 **COORDINATION**

A. Coordinate work with other contractors. Notify Architect or General Contractor early to coordinate construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 **SHOP DRAWINGS**

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

1.5 **PRODUCTS AND MATERIALS**

2.1 **GENERAL**

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacture of the required type of equipment and the manufacturer's latest approved design.

B. Boxes installed in concealed locations shall be set flush with the finished surfaces.

2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 **NOT USED**

2.3 **CONDUCTORS**

A. Conductors shall be color coded, sizes #6 and larger may be color taped on the job. Color coding shall be: Standard Practice.

B. Conductors shall be copper or aluminum per Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IEC6A and shall be UL approved.

C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.

D. Conductors shall be spliced and tinned as follows:

- 1. Size #10 and #12 use ideal "Wing Nut" or T&G "piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
- 2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber grommet type with final cover vinyl plastic electrical type, in lieu of rubber gum and vinyl sheathing type factory fabricated approved preformed insulation covers may be used. All connectors shall be UL approved.
- 3. No split-bolt type connectors may be used.

E. All branch wire connections shall be copper and sized per National Electric Code.

F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

G. All wiring in mechanical spaces shall be plenum rated.

H. Provide GFI protection within 6'-0" of any sink.

I. All multi-wire branch circuits shall comply with 2017 NEC, 210.4(B).

J. All wiring of medical facilities shall comply with 2017 NEC, 517.1.

2.4 **PANELBOARDS, SAFETY SWITCHES**

A. Panelboards shall comply with NEMA Standard PB 1 — Latest Edition and as manufactured by Square D or ITE-Siemens.

B. The contractor shall be responsible for correctly phasing the circuits in the panelboards.

C. Safety switches shall be general duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 **NOT USED**

2.6 **WIRING DEVICES**

A. Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.

B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.

C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 **NOT USED**

#### 2.8 CONDUIT

A. PVC conduit will be allowed where N.E.C. approves.

B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

2.9 **EXECUTION**

3.1 **CIRCUIT GROUNDING**

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut or convenience outlet or switch.

3.2 **GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES**

A. Outlets and switches shall be safely grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut or convenience outlet or switch.

3.3 **MOTORS**

A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.

3.4 **NOT USED**

3.5 **EQUIPMENT LABELING**

A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to the equipment. Nameplate shall include the name of the equipment and where it is fed from.

B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and labeled where they terminate.

D. Provide typewriter directory in each panelboard to clearly identify each circuit, service, etc.

3.6 **NOT USED**

3.7 **NOT USED**

3.8 **JUNCTION AND/OR PULL BOXES**

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 **PULL WIRE**

A. Leave pull wire in each empty conduit run.

3.10 **NOT USED**

3.11 **GROUNDING**

A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:

1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be maintained through the equipment.

2. Equipment ground shall be maintained through the equipment.

3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.

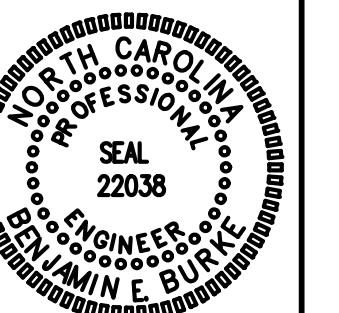
4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.

5. All equipment enclosures and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

6. All metal enclosures and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 **E**

**COLUMBUS COUNTY COURTHOUSE**  
113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA



BASEMENT  
LIGHTING PLAN

19035

ISSUED: 8/8/2022

DWG BY: DS

CKD BY: BEB

REVISIONS

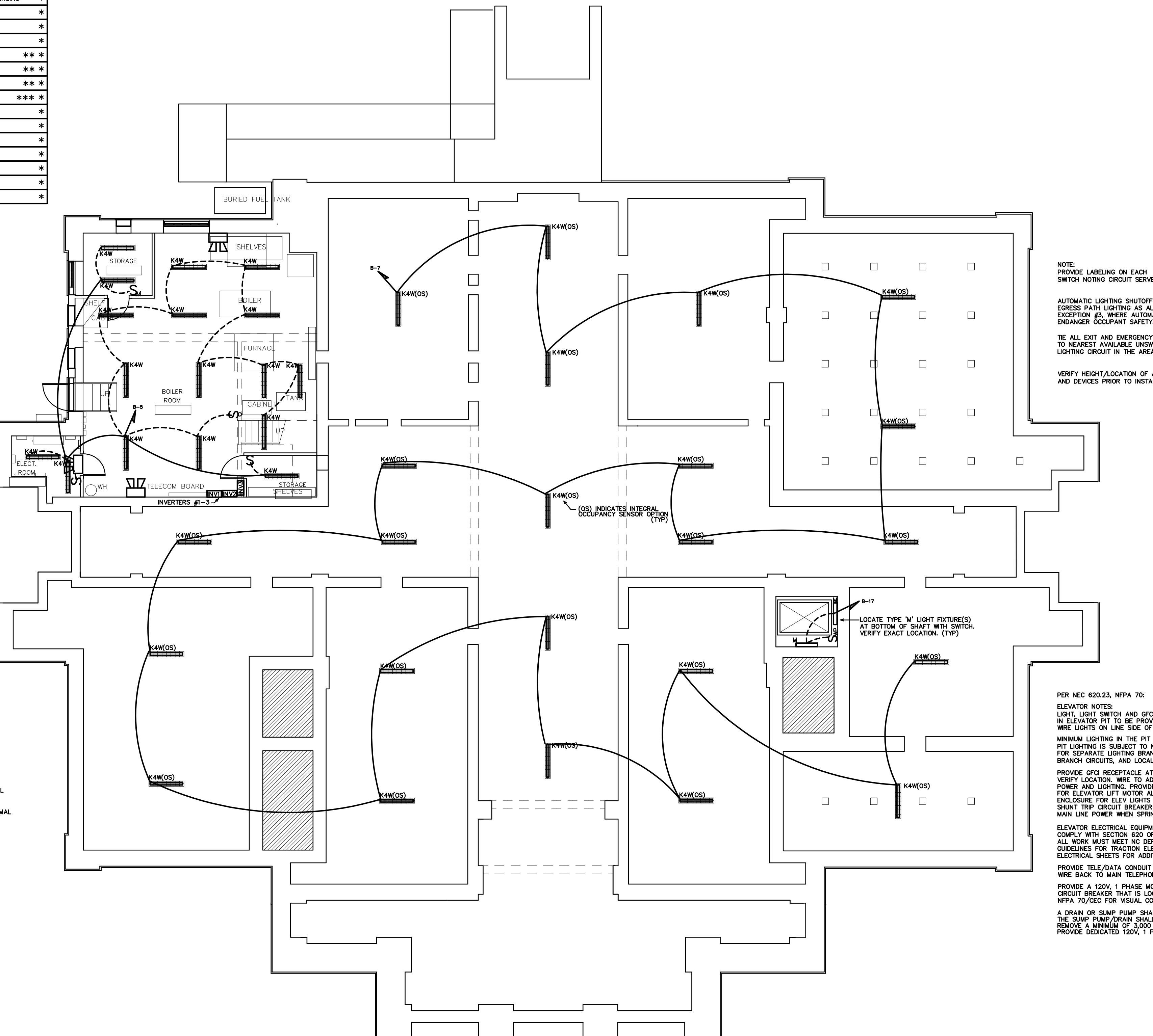
ENGINEER  
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email: ben@bdg-nc.com  
Corp. License # C-2052  
SHEET NO.  
**E-2.0**

LIGHTING SCHEDULE *							
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE W	BALLAST TYPE	W/ Fixture	REMARKS
A	COLUMBIA	LCAT14-935W	120	- LED -	-	32W	1X4 LED SURFACE MOUNTED FIXTURE
B	COLUMBIA	LCAT124-935LW	120	- LED -	-	32W	2X4 LED SURFACE MOUNTED FIXTURE
C1	GOTHAM	EV06 35/20	120	- LED -	-	20W	6" RECESSED LED CAN LIGHT
C2	GOTHAM	EV08 35/30	120	- LED -	-	47W	RECESSED LED CAN LIGHT, MET LOCATION WHERE NOTED
D	JESCO	DL-AC-FLEX2-FS	120	- LED -	-	4W/FT	LED TAPE LIGHT
D2	JESCO	DL-AC-FLEX2-FS	120	- LED -	-	4W/FT	LED TAPE LIGHT MOUNTED IN SKYLIGHT
F	FINELITE	HPI-P-ID-X-B-B-835	120	- LED -	-	0.3W/FT	PENDANT MOUNT INDIRECT/DIRECT LINEAR LED FIXTURE
G	CHosen BY OWNER/ARCH. INSTALLED BY EC		120	- LED -	-	500W	LARGE CHANDELIER FIXTURE (\$5,000 ALLOWANCE)
H	MCFADDEN	MP1301-00-3621-CFT-002	120	4 - 12W	-	48W	DECORATIVE PENDANT FIXTURE
K2	COLUMBIA	MPS2-35LW	120	- LED -	-	14W	2' LED STRIP FIXTURE
K4	COLUMBIA	MPS4-35LW	120	- LED -	-	27W	4' LED STRIP FIXTURE, 'W' INDICATES WIRE GUARD, 'OS' INDICATES OCCUPANCY SENSING
L	ILP	VFS-SL-U-CCT-S-KNK	120	- LED -	-	41W	LED FLAG LIGHTING FIXTURE
M	SYLVANIA	STRIP1A/032UVWD40/48S/WH	120	- LED -	-	32W	LED LINEAR STRIP (ELEVATOR), WL W/ GUARD
P	OCL	EAU-PICB-B-14-WG-BMP-LED3	120	- LED -	-	29W	DECORATIVE LED PENDANT FIXTURE
R1	REFURBISHED		120	- LED -	-	50W	REFURBISHED PENDANT LIGHT FIXTURE
R2	REFURBISHED		120	- LED -	-	50W	REFURBISHED POST LIGHT FIXTURE
R3	REFURBISHED		120	- LED -	-	50W	REFURBISHED SCONCE FIXTURE, LED
S	MCFADDEN	MP1916-05-1221-INN-0001	120	1 E26 10W	-	10W	DECORATIVE SCONCE FIXTURE
T	HUBBELL	PNTV-4-4-35-35KB	120	- LED -	-	36W	TAMPER/VANDAL RESISTANT LINEAR LED FIXTURE
U	COLUMBIA	CU4-CS-ED120	120	- LED -	-	24W	UNDERCABINET LIGHTING FIXTURE
W	COLUMBIA	RWL1-48L-20-4K7-UNV	120	- LED -	-	20W	EXTERIOR LED WALLPACK FIXTURE
V	CHosen BY OWNER/ARCH. INSTALLED BY EC		120	- LED -	-	100W	LED VANTY LIGHT FIXTURE (\$200 EA. ALLOWANCE)
E1	MULE	PVT-1-B-R-U-BA-SD	120	- LED -	-	2W	LED EXIT SIGN, COLOR BY ARCH
E2	MULE	AL-1-R-WW-SD	120	- LED -	-	4W	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT
E3	MULE	ELW-BB-10L3-DG	120	- LED -	-	10W	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH

\* OR APPROVED EQUAL RENOVATE SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY  
INTEGRAL SENSOR SOURCE, TIE TO ELECTRONIC DIMMING BALLAST. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.  
\*\* DENOTES ELECTRONIC BALLAST, \*\*\* DENOTES ELECTRONIC DIMMING BALLAST.

\*\*\* EXISTING LIGHT FIXTURE TO BE REFURBISHED AND RETIFTED BY EC. PROVIDE REQUIRED LED LAMPS AS REQUIRED

\*\*\*\* PROVIDE LED LAMPS AS REQUIRED. COORDINATE TYPE W/ OWNER. DO NOT EXCEED NOTED WATTAGE.



BASEMENT LIGHTING PLAN  
E-2.0 SCALE: 1/8"-1'-0"

ENGINEER  
**BURKE DESIGN GROUP**  
3305-109 DURHAM DRIVE  
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## COLUMBUS COUNTY COURTHOUSE

113 COURTHOUSE SQ  
WHITEVILLE, NORTH CAROLINAFIRST FLOOR  
LIGHTING PLAN

19035

ISSUED: 8/8/2022  
DWG BY: DS  
CKD BY: BEB  
REVISIONSENGINEER  
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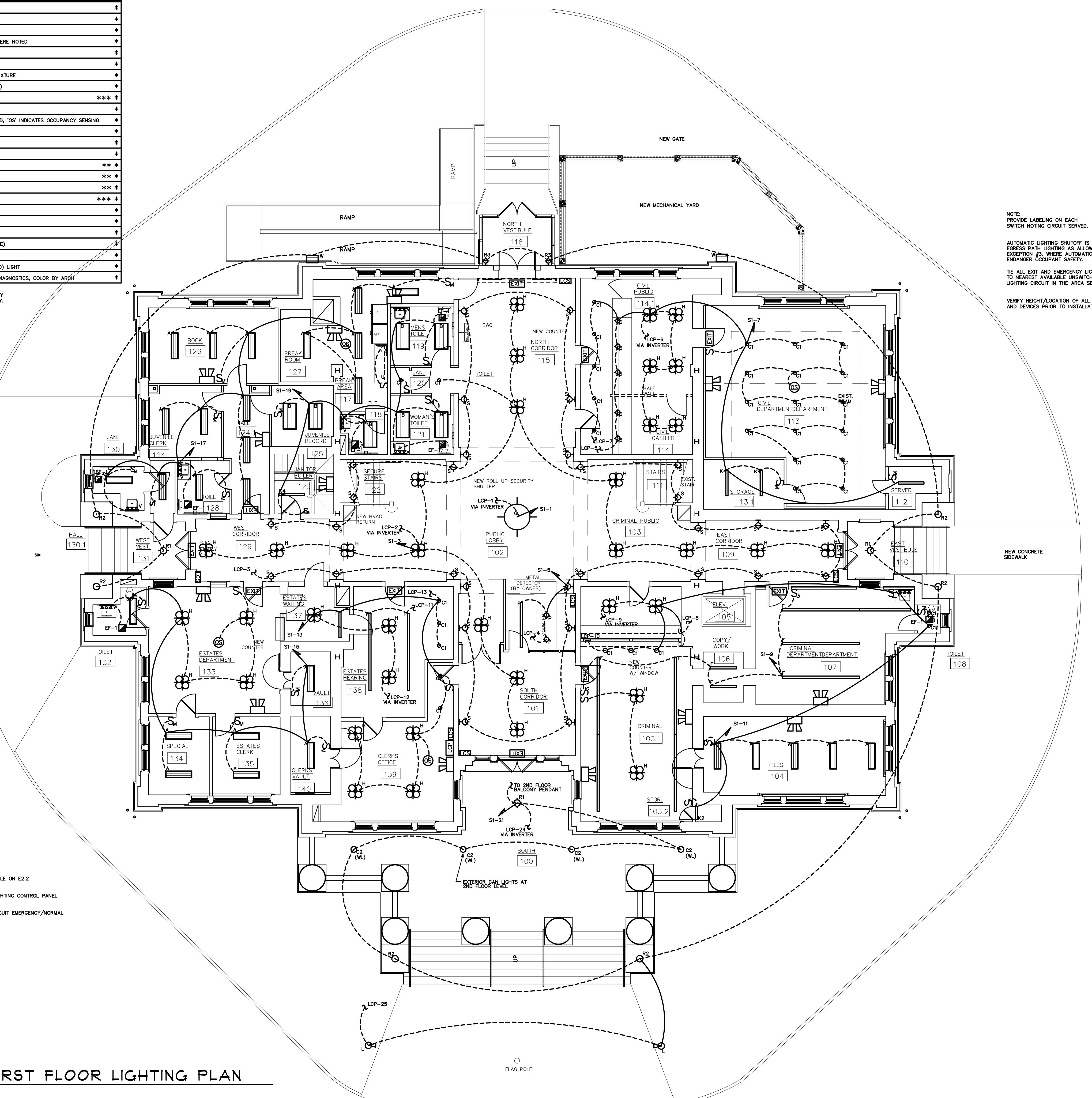
E-2.1

Columbus City Courthouse E-2.1 LIGHTING SCHEDULE *							
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	BALLAST TYPE	W/ TYPE	Fixture
A	COLUMBIA	LCAT14-935WMSM	120	-	LED	-	32W 1X4 LED SURFACE MOUNTED FIXTURE
B	COLUMBIA	LCAT124-935LWMSM	120	-	LED	-	32W 2X4 LED SURFACE MOUNTED FIXTURE
C1	GOTHAM	EVO8 35/20	120	-	LED	-	20W 8" RECESSED LED CAN LIGHT
C2	GOTHAM	EVO8 35/30	120	-	LED	-	47W 8" RECESSED LED CAN LIGHT, WET LOCATION WHERE NOTED
D	JESCO	DL-AC-FLEX2-FS	120	-	LED	-	LED TAPE LIGHT
D2	JESCO	DL-AC-FLEX2-FS	120	-	LED	-	4W/FT LED TAPE LIGHT MOUNTED IN SKYLIGHT
F	FINELITE	HP4-P-ID-X-B-B-835	120	-	LED	-	9.3W/FT PENDANT MOUNT INDIRECT/DIRECT LINEAR LED FIXTURE
G	CHOSEN BY OWNER/ARCH, INSTALLED BY EC		120	-		-	500W LARGE CHANDELIER FIXTURE (\$5,000 ALLOWANCE)
H	MCFADDEN	MP1301-00-3621-CFT-002	120	4	-	12W	48W DECORATIVE PENDANT FIXTURE
K2	COLUMBIA	MPS2-35LW	120	-	LED	-	14W 2' LED STRIP FIXTURE
K4	COLUMBIA	MPS4-35LW	120	-	LED	-	27W 4' LED STRIP FIXTURE. "W" INDICATES WIRE GUARD, "O'S" INDICATES OCCUPANCY SENSING
L	ILP	VFS-5L-U-CCTS-KNK	120	-	LED	-	41W LED FLAG LIGHTING FIXTURE
M	SYLVANIA	STRP1A/032UNV0840/48S/WH	120	-	LED	-	32W LED LINEAR STRIP (ELEVATOR), WL W/ GUARD
P	OCL	EAU-P1CB-B-14-WC-BMP-LED3	120	-	LED	-	28W DECORATIVE LED PENDANT FIXTURE
R1	REFURBISHED		120	-	LED	-	50W REFURBISHED PENDANT LIGHT FIXTURE
R2	REFURBISHED		120	-	LED	-	50W REFURBISHED POST LIGHT FIXTURE
R3	REFURBISHED		120	-	LED	-	50W REFURBISHED SCONE FIXTURE, LED
S	MCFADDEN	MP1916-05-1221-INN-0001	120	1	E26	ROW	10W DECORATIVE SCONE FIXTURE
T	HUBBELL	PVNT-4-4-35-35KB	120	-	LED	-	36W TAMPER/VANDAL RESISTANT LINEAR LED FIXTURE
U	COLUMBIA	CUCA-CS-ED120	120	-	LED	-	24W UNDERCABINET LIGHTING FIXTURE
W	COLUMBIA	RWL1-48L-20-4K7-UNV	120	-	LED	-	20W EXTERIOR LED WALLPACK FIXTURE
V	CHOSEN BY OWNER/ARCH, INSTALLED BY EC		120	-	LED	-	100W LED VANTY LIGHT FIXTURE (\$200 EA. ALLOWANCE)
EXT1	MULE	PVT-1-B-R-U-B-A-SD	120	-	LED	-	2W LED EXIT SIGN, COLOR BY ARCH
EXT2	MULE	AL-1-R-WW-SD	120	-	LED	-	4W COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT
EXT3	MULE	ELW-BB-10L3-DO	120	-	LED	-	10W EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH

\* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.  
'EB' DENOTES ELECTRONIC BALLAST, 'EDB' DENOTES ELECTRONIC DIMMING BALLAST.

\*\* EXISTING LIGHT FIXTURE TO BE REFURBISHED AND REFITTED BY EC. PROVIDE REQUIRED LED LAMPS AS REQUIRED

\*\*\* PROVIDE LED LAMPS AS REQUIRED. COORDINATE TYPE W/ OWNER. DO NOT EXCEED NOTED WATTAGE.





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SECOND FLOOR  
LIGHTING PLAN

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REVISIONS

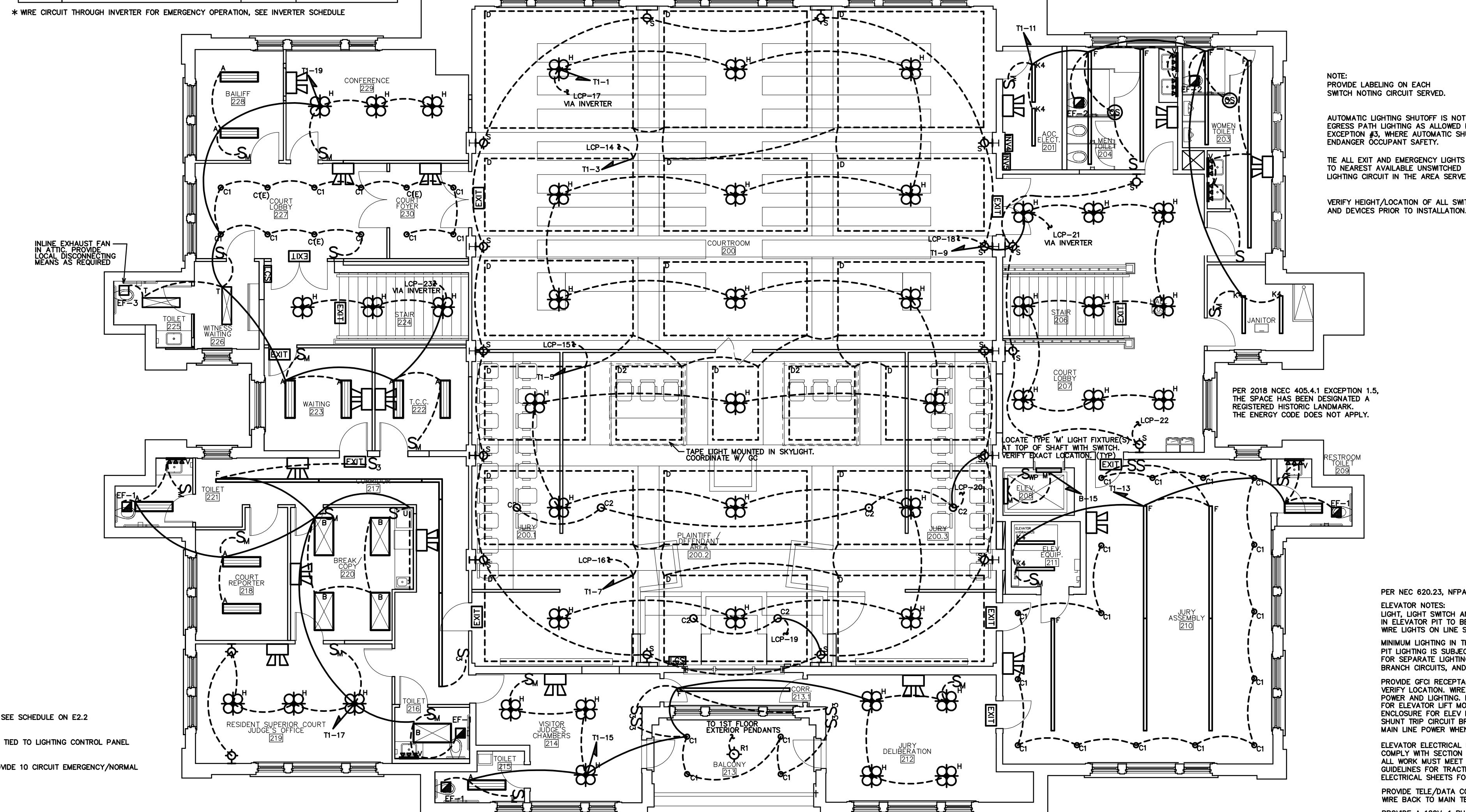
SHOOT NO.

E-2.2

Columbus City Courthouse E2.2 LIGHTING SCHEDULE *							
MARK	MANUFACTURER	CATALOG NO.	VOLT	LAMPS	BALLAST	W/	REMARKS
			NO. TYPE	W	TYPE	Fixture	
A	COLUMBIA	LCAT14-935MWSM	120	- LED	-	32W	1X4 LED SURFACE MOUNTED FIXTURE
B	COLUMBIA	LCAT24-935LWSM	120	- LED	-	32W	2X4 LED SURFACE MOUNTED FIXTURE
C1	GOTHAM	EV06 35/20	120	- LED	-	20W	8" RECESSED LED CAN LIGHT
C2	GOTHAM	EV08 35/30	120	- LED	-	47W	8" RECESSED LED CAN LIGHT, WET LOCATION WHERE NOTED
D	JESCO	DL-AC-FLEX2-FS	120	- LED	-	4W/FT	LED TAPE LIGHT
D2	JESCO	DL-AC-FLEX2-FS	120	- LED	-	4W/FT	LED TAPE LIGHT MOUNTED IN SKYLIGHT
F	FINEELITE	HF4-P-ID-X-B-B-835	120	- LED	-	8.3W/FT	PENDANT MOUNT INDIRECT/DIRECT LINEAR LED FIXTURE
G	CHOOSE BY OWNER/ARCH. INSTALLED BY EC		120	- LED	-	500W	LARGE CHANDELIER FIXTURE (\$5,000 ALLOWANCE)
H	MCFADDEN	MP1301-00-3621-CFT-002	120	4 -	12W	48W	DECORATIVE PENDANT FIXTURE
K2	COLUMBIA	MPS2-35LW	120	- LED	-	14W	2' LED STRIP FIXTURE
K4	COLUMBIA	MPS4-35LW	120	- LED	-	27W	4' LED STRIP FIXTURE, "W" INDICATES WIRE GUARD, "OS" INDICATES OCCUPANCY SENSING
L	ILP	VFS-SL-U-CCTS-KNK	120	- LED	-	41W	LED FLAG LIGHTING FIXTURE
M	SYLVANIA	STRIP1A/032UNV0840/485/WH	120	- LED	-	32W	LED LINEAR STRIP (ELEVATOR), ML W/ GUARD
P	OCL	EAU-P10B-B-14-WC-BMP-LED3	120	- LED	-	29W	DECORATIVE LED PENDANT FIXTURE
R1	REFURBISHED		120	- LED	-	50W	REFURBISHED PENDANT LIGHT FIXTURE
R2	REFURBISHED		120	- LED	-	50W	REFURBISHED POST LIGHT FIXTURE
R3	REFURBISHED		120	- LED	-	50W	REFURBISHED SCONCE FIXTURE, LED
S	MCFADDEN	MP1916-05-1221-INM-0001	120	1 E26	10W	-	10W DECORATIVE SCONCE FIXTURE
T	HUBBELL	PVNT-4-4-35-35K8	120	- LED	-	36W	TAMPER/VANDAL RESISTANT LINEAR LED FIXTURE
U	COLUMBIA	CUC4-CS-ED120	120	- LED	-	24W	UNDERCABINET LIGHTING FIXTURE
W	COLUMBIA	RW1-4BL-20-AK7-UVN	120	- LED	-	20W	EXTERIOR LED WALLPACK FIXTURE
V	CHOOSE BY OWNER/ARCH. INSTALLED BY EC		120	- LED	-	100W	LED VANITY LIGHT FIXTURE (\$200 EA. ALLOWANCE)
Z1	MULE	PVT-1-B-R-U-BA-SD	120	- LED	-	2W	LED EXIT SIGN, COLOR BY ARCH
Z2	MULE	AL-1-R-WW-SD	120	- LED	-	4W	COMBINATION EMERGENCY (TUNGSTEN)/EXIT (LED) LIGHT
Z3	MULE	ELW-BB-10L3-DG	120	- LED	-	10W	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH

\* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.  
"EB" DENOTES ELECTRONIC BALLAST. "EDB" DENOTES ELECTRONIC DIMMING BALLAST.

\*\* EXISTING LIGHT FIXTURE TO BE REFURBISHED AND REPIPED BY EC. PROVIDE REQUIRED LED LAMPS AS REQUIRED  
\*\*\* PROVIDE LED LAMPS AS REQUIRED. COORDINATE TYPE W/ OWNER. DO NOT EXCEED NOTED WATTAGE.





## COLUMBUS COUNTY COURTHOUSE

113 COURTHOUSE SQ.

WHITEVILLE, NORTH CAROLINA



ATTIC LIGHTING PLAN

19035

ISSUED: 8/8/2022

DWG BY: DS

CKD BY: BEB

REVISIONS

ENGINEER

BURKE DESIGN GROUP

3305-109 DURHAM DRIVE  
RALEIGH, NC 27603

PHONE: (919) 771-1916

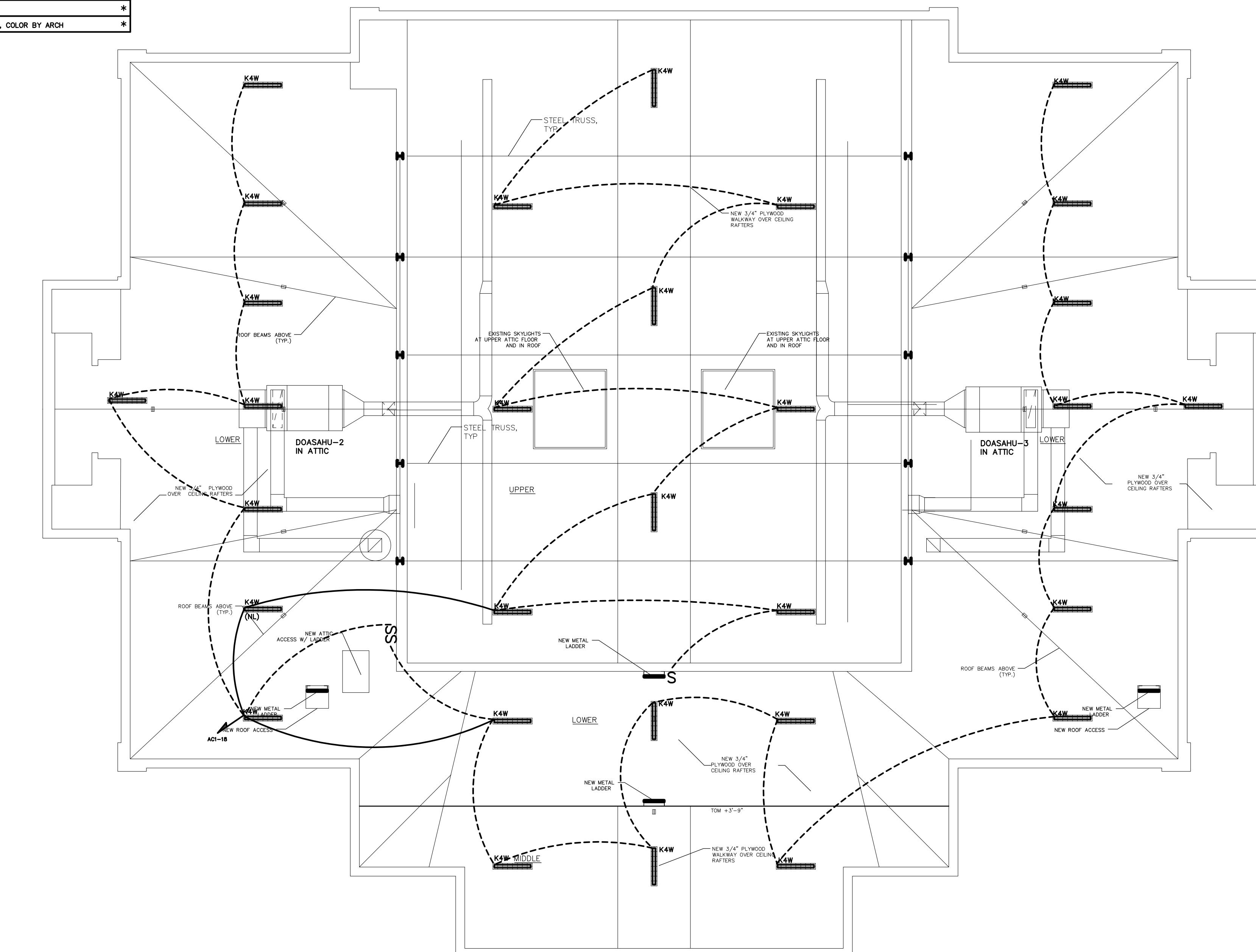
FAX: (919) 779-0826

email: ben@bdg-nc.com

Corp. License # C-2652

SHEET NO.

E-2.3



ATTIC LIGHTING PLAN

E-2.3

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

Columbus City Courthouse E-2.3							
LIGHTING SCHEDULE *							
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	BALLAST TYPE	W/ FIXTURE	REMARKS
A	COLUMBIA	LCAT14-935W/SM	120	- LED	-	32W	1X4 LED SURFACE MOUNTED FIXTURE *
B	COLUMBIA	LCAT24-935L/WSM	120	- LED	-	32W	2X4 LED SURFACE MOUNTED FIXTURE *
C1	GOTHAM	EV08 35/20	120	- LED	-	20W	6" RECESSED LED CAN LIGHT *
C2	GOTHAM	EV08 35/30	120	- LED	-	47W	8" RECESSED LED CAN LIGHT, WET LOCATION WHERE NOTED *
D	JESCO	DL-AC-FLEX2-FS	120	- LED	-	4W/FT	LED TAPE LIGHT *
D2	JESCO	DL-AC-FLEX2-FS	120	- LED	-	4W/FT	LED TAPE LIGHT MOUNTED IN SKYLIGHT *
F	FINELITE	HPI-P-ID-X-B-B-835	120	- LED	-	9.3W/FT	PENDANT MOUNT INDIRECT/DIRECT LINEAR LED FIXTURE *
G	CHOSN BY OWNER/ARCH, INSTALLED BY EC		120	- LED	-	500W	LARGE CHANDELIER FIXTURE (\$5,000 ALLOWANCE) *
H	MCFADDEN	MP1301-00-3621-CFT-002	120	4 - 12W	-	48W	DECORATIVE PENDANT FIXTURE *** *
K2	COLUMBIA	MPS2-35LW	120	- LED	-	14W	2' LED STRIP FIXTURE *
K4	COLUMBIA	MPS4-35LW	120	- LED	-	27W	4' LED STRIP FIXTURE, 'W' INDICATES WIRE GUARD, 'OS' INDICATES OCCUPANCY SENSING *
L	ILP	VFS-5L-U-CCTS-KN	120	- LED	-	41W	LED FLAG LIGHTING FIXTURE *
M	SYLVANIA	STRIP1-032UNV840/4BS/WH	120	- LED	-	32W	LED LINEAR STRIP (ELEVATOR), WL W/ GUARD *
P	OCL	EAU-P1CB-B-14-WG-BMP-LD3	120	- LED	-	29W	DECORATIVE LED PENDANT FIXTURE *
R1	REFURBISHED		120	- LED	-	50W	REFURBISHED PENDANT LIGHT FIXTURE *** *
R2	REFURBISHED		120	- LED	-	50W	REFURBISHED POST LIGHT FIXTURE *** *
R3	REFURBISHED		120	1 E20 10W	-	50W	REFURBISHED SCONE FIXTURE, LED *** *
S	MCFADDEN	MP1916-05-1221-INN-0001	120	1 E20 10W	-	10W	DECORATIVE SCONE FIXTURE *** *
T	HUBBELL	PVNT-4-4-35-3SK8	120	- LED	-	36W	TAMPER/VANDAL RESISTANT LINEAR LED FIXTURE *
U	COLUMBIA	CUC4-CS-ED120	120	- LED	-	24W	UNDERCABINET LIGHTING FIXTURE *
W	COLUMBIA	FWL1-48L-20-4K7-UNV	120	- LED	-	20W	EXTERIOR LED WALLFACE FIXTURE *
V	CHOSN BY OWNER/ARCH, INSTALLED BY EC		120	- LED	-	100W	LED VANITY LIGHT FIXTURE (\$200 EA. ALLOWANCE) *
W2	MULE	PVT-1-B-R-U-BA-SD	120	- LED	-	2W	LED EXIT SIGN, COLOR BY ARCH *
W3	MULE	AL-1-R-WW-SD	120	- LED	-	4W	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT *
W4	MULE	ELW-BB-10L3-DG	120	- LED	-	10W	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH *

\* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAMP START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

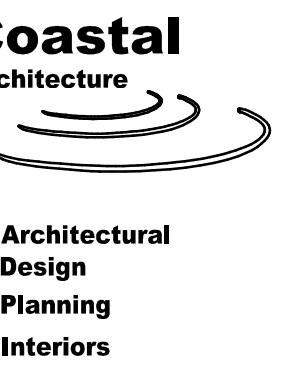
\*\* EXISTING LIGHT FIXTURES TO BE REFURBISHED AND RETIFTED BY EC. PROVIDE REQUIRED LED LAMPS AS REQUIRED.

\*\*\* PROVIDE LED LAMPS AS REQUIRED. COORDINATE TYPE W/ OWNER. DO NOT EXCEED NOTED WATTAGE.

ATTIC LIGHTING PLAN

E-2.3

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



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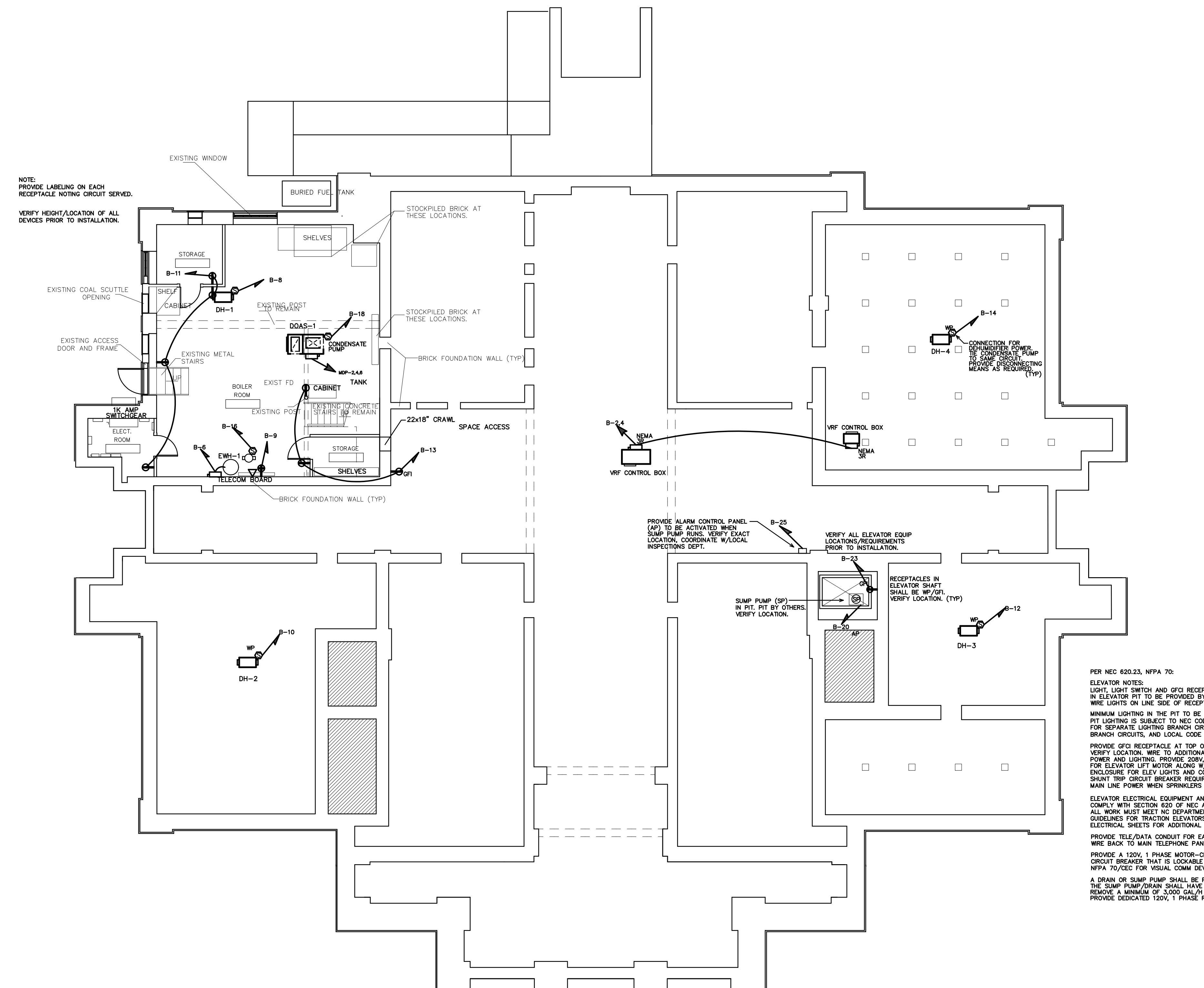


# COLUMBUS COUNTY COURTHOUSE

**113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA**

# **BASEMENT POWER PLAN**

ISSUED: 8/8/2022  
WG BY: DS  
KD BY: BEB  
REVIZIONS



**BASEMENT POWER PLAN**

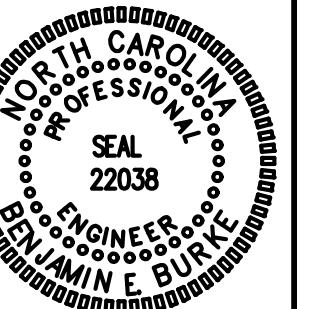
E-3.0 SCALE: 1/8"=1'-0"

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## COLUMBUS COUNTY COURTHOUSE 113 COURTHOUSE SQ. WHITEVILLE, NORTH CAROLINA



FIRST FLOOR  
POWER PLAN

**19035**

ISSUED: 8/8/2022

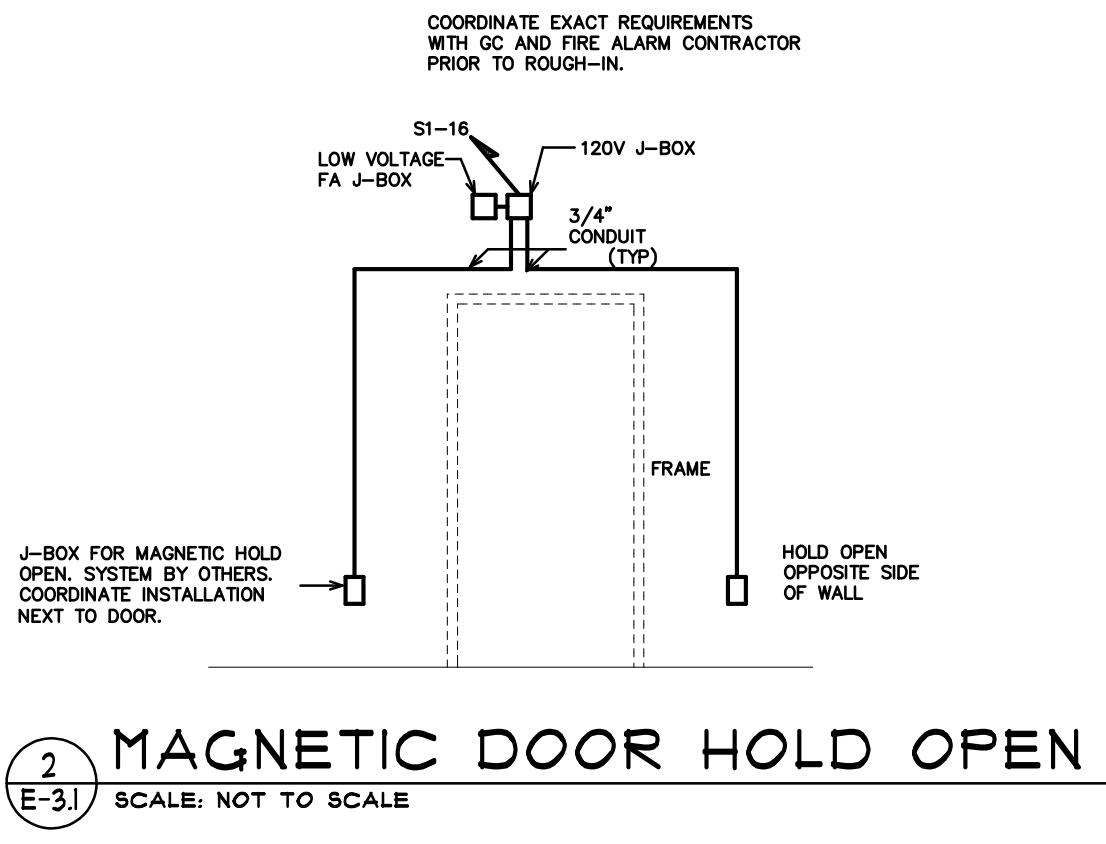
DWG. BY: DS

CKD BY: BEB

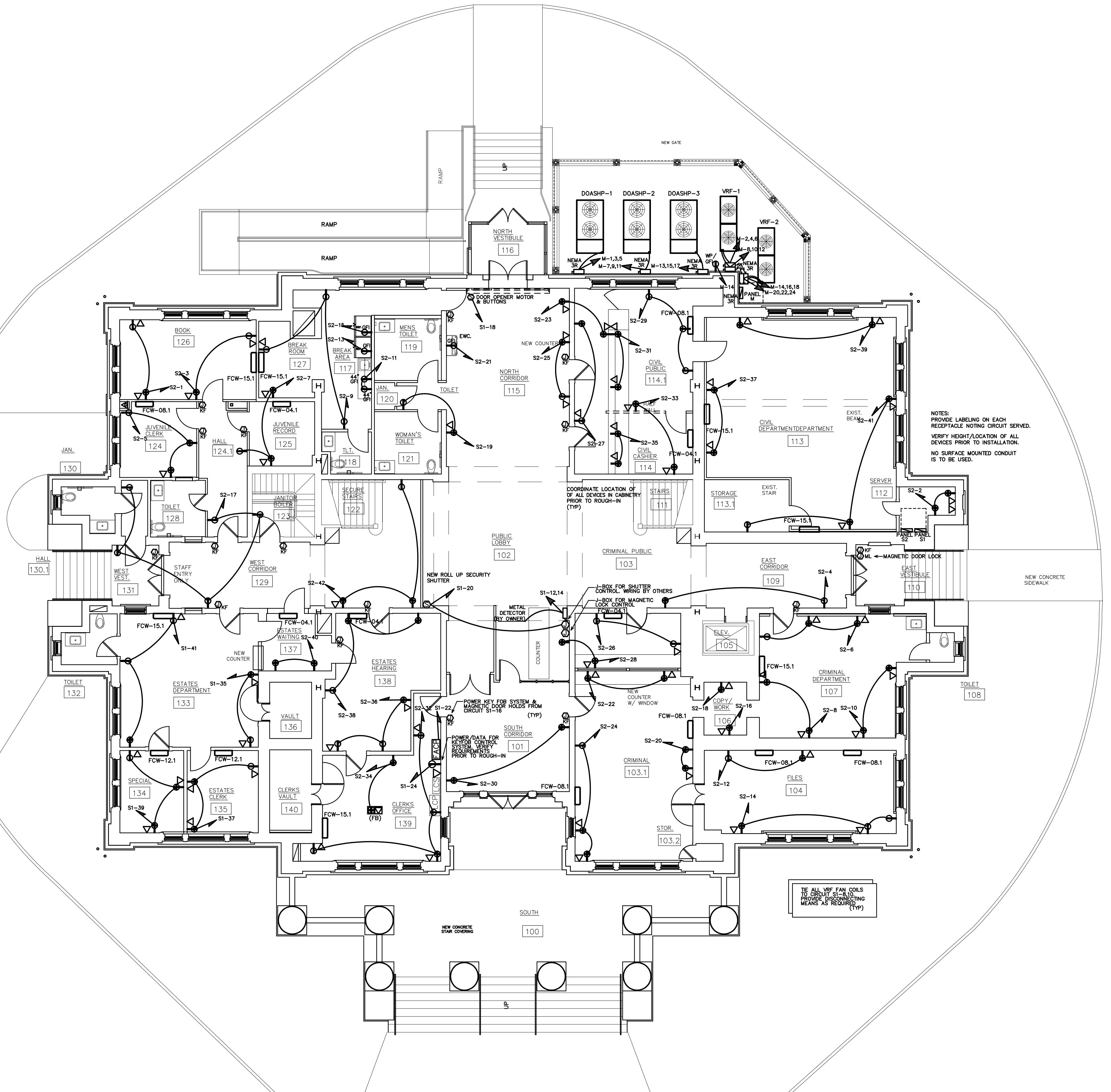
REVISIONS

SHEET NO.

**E-3.1**



**MAGNETIC DOOR HOLD OPEN**  
E-3.1 SCALE: NOT TO SCALE



PROVIDE KEYFOB READERS AT EACH DOOR ENTERING THE TENANT SPACE AND AS NOTED ELSEWHERE. COORDINATE EXACT SYSTEM REQUIREMENTS WITH INSTALLER PRIOR TO ROUGH-IN.

3/4" CONDUIT BACK TO SERVICE COORDINATE LOCATION W/ TENANT  
S1-16  
DOOR / FRAME  
DOOR STRIKE BY EC

J-BOX FOR KEYFOB READER READER BY OTHERS. COORDINATE INSTALLATION NEXT TO DOOR.  
ELECTRIC STRIKE BY OTHERS. PROVIDE CONDUIT TO STRIKE LOCATION.

PROVIDE KEYFOB READERS AT DOORS AS NOTED ON POWER PLAN. COORDINATE EXACT REQUIREMENTS W/ GC AND EQUIPMENT SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.

**KEYFOB DOOR DETAIL**  
E-3.1 SCALE: NOT TO SCALE



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## COLUMBUS COUNTY COURTHOUSE

113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA

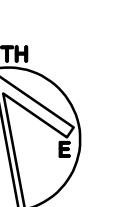
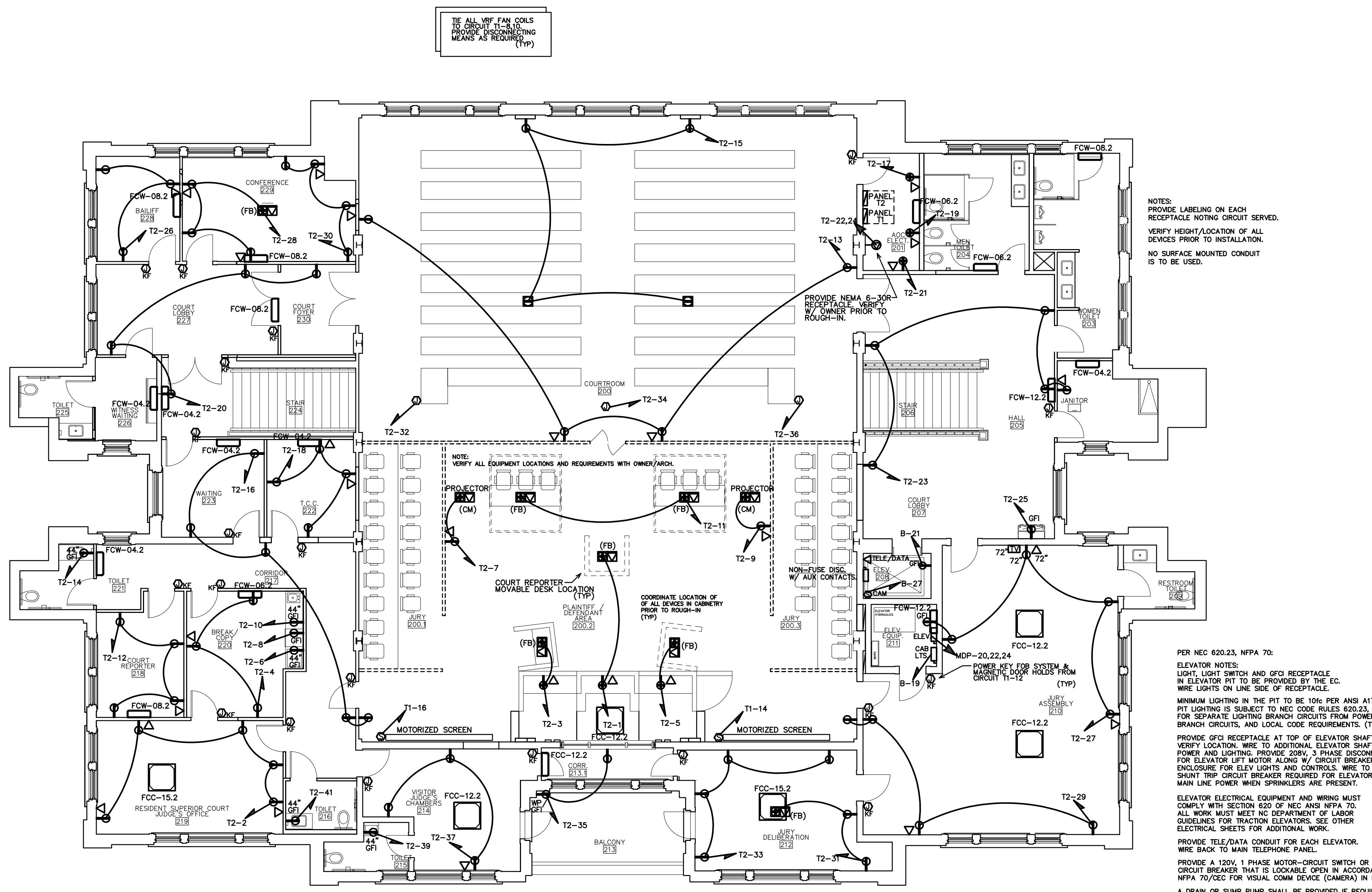


SECOND FLOOR  
POWER PLAN

19035

ISSUED: 8/8/2022  
DWG BY: DS  
CKD BY: BEB  
REVISIONS

GUB BURKE DESIGN GROUP  
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email: ben@bdg-nc.com  
Corp. License # C-2652  
SHEET NO.  
E-3.2



**COLUMBUS COUNTY COURTHOUSE**  
113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA



ATTIC POWER PLAN

**19035**

ISSUED: 8/8/2022

DWG BY: DS

CKD BY: BEB

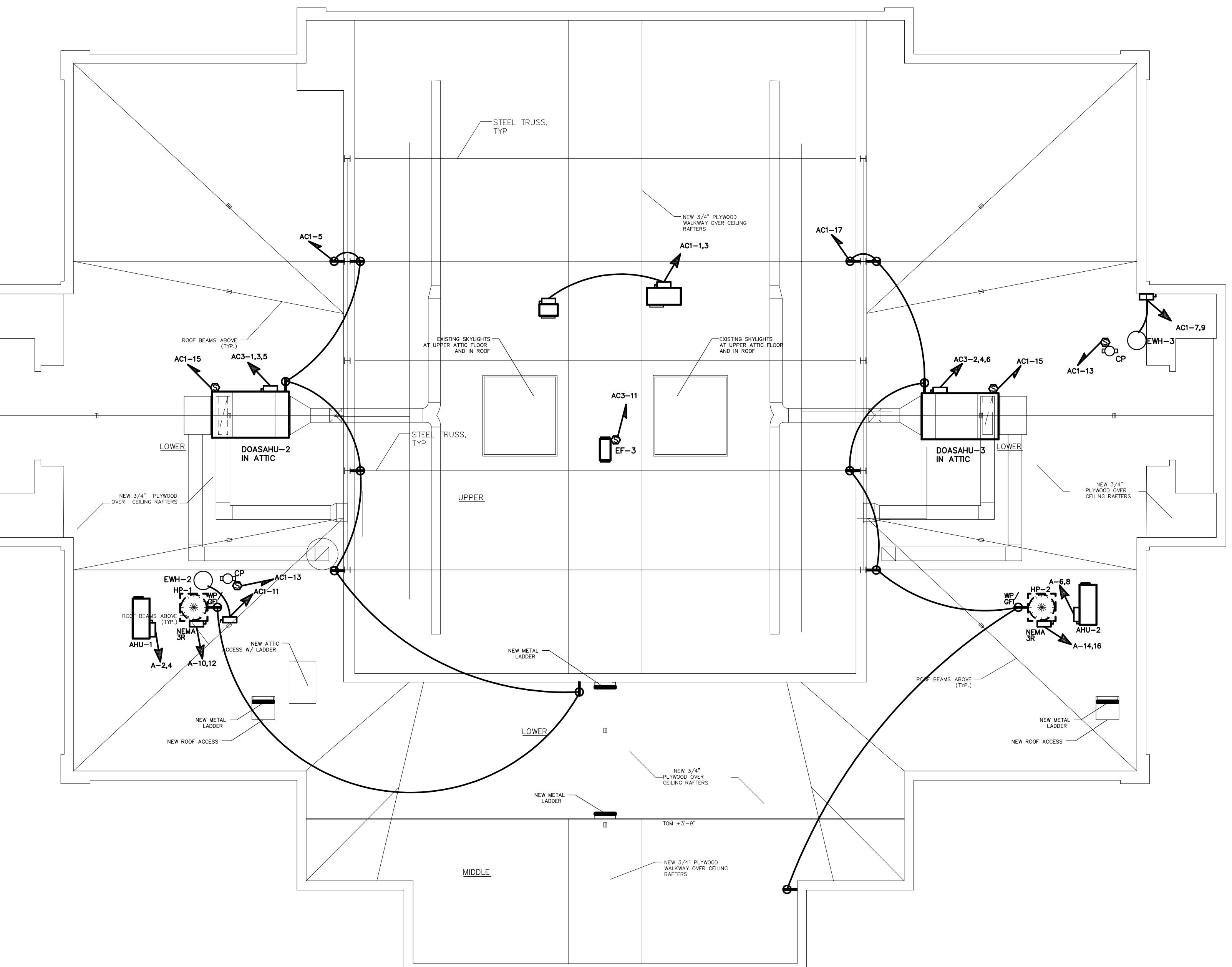
REVISIONS

ENGINEER

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email: ben@bdg-nc.com  
Corp. License # C-2652

SHEET NO.

**E-3.3**



**NEW ATTIC POWER PLAN**  
E-3.3 SCALE: 1/8"=1'-0"



**Architectural  
Design  
Planning  
Interior**



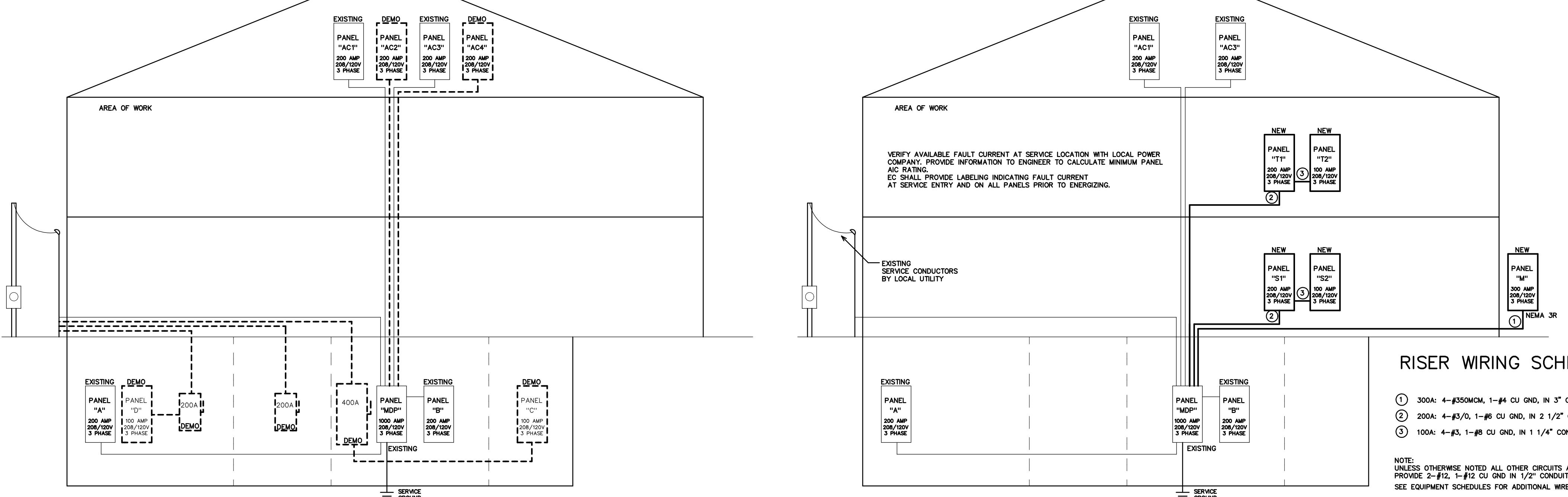
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# COLUMBUS COUNTY COURTHOUSE

113 COURTHOUSE SQ.  
WHITEVILLE, NORTH CAROLINA



1 EXISTING ELECTRICAL RISER  
E-4.1 SCALE: NTS

E-4.1 SCALE: NTS

2  
4.1 REVISED ELECTRICAL RISER  
SCALE: NTS

4.1 SCALE: NTS

Columbus Cty Courthouse E4.1 <b>EXISTING PANEL- 'MDP'</b>		MAKE: <u>VERIFY</u>			RATING: <u>208/120V</u> 3 PHASE <u>4</u> WIRE			1000A MAIN CIRCUIT BREAKER				
		TYPE: <u>VERIFY</u>			MOUNTING: <u>SURFACE</u>			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
					MINIMUM AIC: <u>VERIFY</u>			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE
		A	B	C				A	B	C		
PANEL 'AC-1'	200A	---	---	---	1	○ □ ○	2	---	---	---	200A	PANEL 'AC-2'
		---	---	---	3	○ □ ○	4	---	---	---		
		---	---	---	5	○ □ ○	6	---	---	---		
PANEL 'AC-3'	200A	---	---	---	7	○ □ ○	8	---	---	---	200A	PANEL 'AC-4'
		---	---	---	9	○ □ ○	10	---	---	---		
		---	---	---	11	○ □ ○	12	---	---	---		
PANEL 'A'	200A	---	---	---	13	○ □ ○	14	---	---	---	200A	PANEL 'B'
		---	---	---	15	○ □ ○	16	---	---	---		
		---	---	---	17	○ □ ○	18	---	---	---		
HVAC UNIT	125A	---	---	---	19	○ □ ○	20	---	---	---	125A	HVAC UNIT
		---	---	---	21	○ □ ○	22	---	---	---		
		---	---	---	23	○ □ ○	24	---	---	---		
HVAC UNIT	125A	---	---	---	25	○ □ ○	26	---	---	---	125A	HVAC UNIT
		---	---	---	27	○ □ ○	28	---	---	---		
		---	---	---	29	○ □ ○	30	---	---	---		
SPARE	200A	---	---	---	31	○ □ ○	32	---	---	---	200A	SPACE
		---	---	---	33	○ □ ○	34	---	---	---		
		---	---	---	35	○ □ ○	36	---	---	---		
SPARE	200A	---	---	---	37	○ □ ○	38	---	---	---	200A	PANEL '1-A'
		---	---	---	39	○ □ ○	40	---	---	---		
		---	---	---	41	○ □ ○	42	---	---	---		
<u>NOTES</u>	<u>SUB-TOTALS 'B'</u>			---	---	---	<b>1000A</b>	<b>BUS</b>	---	---	---	<u>SUB-TOTALS 'A'</u>
							<b>1000A</b>	<b>LUGS</b>	---	---	---	<u>SUB-TOTALS 'B'</u>
							<b>1000A</b>	<b>FEED</b>	---	---	---	<u>GRAND TOTAL</u>
							<u>VERIFY</u>	<u>SIZE</u>	--A	--A	--A	<u>AMPS/PHASE</u>
<b>TOTAL CONNECTED LOAD</b>												

Columbus City Courthouse E4.1 <b>EXISTING PANEL- 'B'</b>		MAKE: <u>VERIFY</u>			RATING: <u>208/120V</u> 3 PHASE <u>4 WIRE</u>			MLO MAIN CIRCUIT BREAKER						
		TYPE: <u>VERIFY</u>			MOUNTING: <u>SURFACE</u>			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
					MINIMUM AIC: <u>VERIFY</u>			SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE		
		A	B	C				A	B	C				
WINDOW AC	20A	---	---	---	1		2	---	---	---	20A	WINDOW AC		
		---	---	---	3		4	---	---	---				
EXISTING	20A	---	---	---	5		6	---	---	---	20A	REC - LOBBY		
EXISTING	20A	---	---	---	7		8	---	---	---	20A	REC - HALLWAY		
EXISTING	20A	---	---	---	9		10	---	---	---	20A	EXISTING		
EXISTING	20A	---	---	---	11		12	---	---	---	20A	REC - SOUTH WALL		
WINDOW AC	20A	---	---	---	13		14	---	---	---	20A	REC - SOUTH WALL		
EXISTING	20A	---	---	---	15		16	---	---	---	20A	EXISTING		
EXISTING	20A	---	---	---	17		18	---	---	---	20A	LTS		
WINDOW AC	20A	---	---	---	19		20	---	---	---	20A	EXISTING		
		---	---	---	21		22	---	---	---	20A	EXISTING		
EXISTING	20A	---	---	---	23		24	---	---	---	20A	WINDOW AC		
REC - EXTERIOR	20A	---	---	---	25		26	---	---	---				
REC - EXTERIOR	20A	---	---	---	27		28	---	---	---	60A	LTS		
WALL HEATER	20A	---	---	---	29		30	---	---	---				
XRAY METAL DETECTOR	20A	---	---	---	31		32	---	---	---	60A	EXISTING		
		---	---	---	33		34	---	---	---				
XRAY METAL DETECTOR	20A	---	---	---	35		36	---	---	---	60A	BOILER RM DISCONNECT		
		---	---	---	37		38	---	---	---				
SPACE	20A	---	---	---	39		40	---	---	---	SPACE	SPACE		
SPACE	20A	---	---	---	41		42	---	---	---	SPACE	SPACE		
NOTES	SUB-TOTALS 'B'			---	---	---	---	200A	BUS	---	---	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD	
								200A	LUGS	---	---	SUB-TOTALS 'B'		
								200A	FEED	---	---	GRAND TOTAL		
								VERIFY	SIZE	--A	--A	--A		AMPS/PHASE

Columbus Cty Courthouse E4.1 <b>EXISTING PANEL - 'AC1'</b>		MAKE: GE TYPE: GE LOAD CENTER			RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: VERIFY			MLQ MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE
		A	B	C				A	B	C		
AHU	50A	---	---	---	1		2	---	---	---	35A	ROOFTOP COND.
		---	---	---	3		4	---	---	---		
		---	---	---	5		6	---	---	---		
AHU	50A	---	---	---	7		8	---	---	---	40A	ROOFTOP COND.
		---	---	---	9		10	---	---	---		
		---	---	---	11		12	---	---	---		
SPACE		---	---	---	13		14	---	---	---		SPACE
SPACE		---	---	---	15		16	---	---	---		SPACE
SPACE		---	---	---	17		18	---	---	---		SPACE
NOTES	SUB-TOTALS 'B' --- ---			200A	BUS	---	---	---	SUB-TOTALS 'A'			
				200A	LUGS	---	---	---	SUB-TOTALS 'B'			
				200A	FEED	---	---	---	GRAND TOTAL			
				VERIFY	SIZE	A	A	A	AMPS / PHASE			
									TOTAL CONNECTED LOAD			

Columbus Cty Courthouse E4.1 <b>REVISED PANEL- 'AC1'</b>		MAKE: GE TYPE: GE LOAD CENTER	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: VERIFY				MLO MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO							
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE		
		A	B	C				A	B	C				
<b>VRF CONTROL BOXES</b>	<b>20A</b>	500			1				2	2236		<b>30A</b>	<b>AHU-1</b>	
			500		3				4		2236			.
<b>REC</b>	<b>20A</b>			1260	5				6		2236	<b>30A</b>	<b>AHU-2</b>	
<b>EWH-3</b>	<b>30A</b>	2250			7				8	2236			.	
			2250		9				10		1596		<b>25A</b>	<b>HP-1</b>
<b>EWH-2</b>	<b>20A</b>			2500	11				12		1596	.		
<b>CIRC PUMPS</b>	<b>20A</b>	1000			13				14	1596		<b>25A</b>	<b>HP-2</b>	
<b>COND PUMPS</b>	<b>20A</b>		500		15				16		1596		.	
<b>REC</b>	<b>20A</b>			1260	17				18		837	<b>20A LTS</b>		
<b>NOTES</b>	<b>SUB-TOTALS 'B'</b>			3750	3250	5020		<b>200A</b>	<b>BUS</b>	6068	5428	4669	<b>SUB-TOTALS 'A'</b>	<b>TOTAL CONNECTED LOAD</b>
EXISTING BREAKER/CIRCUIT TO REMAIN <b>NEW/REVISED BREAKER/CIRCUIT</b>							<b>200A</b>	<b>LUGS</b>	3750	3250	5020	<b>SUB-TOTALS 'B'</b>		
							<b>200A</b>	<b>FEED</b>	9818	8678	9689	<b>GRAND TOTAL</b>		
							<b>VERIFY</b>	<b>SIZE</b>	82A	73A	81A	<b>AMPS/PHASE</b>		
NEC ALLOWABLE DEMAND FACTORS			DIVERSIFIED LOAD SUMMARY											
			LOAD TYPE		Demand Factor①	A	B	C	TOTAL DIVERSIFIED LOAD					
① DEMAND FACTORS PER NEC 220			GENERAL LIGHTING		② 125%	----	----	1047	1047					
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD			TRACK LIGHTING		125%	----	----	----	----					
③ NEC TABLE 220.56			GENERAL USE RECEPTACLES		≤10KVA@100%	----	----	2520	2520					
④ NEC 220.51					>10KVA@50%	----	----	----	----					
⑤ NEC 220.43A, 200 VA/LINEAR FT			MOTORS AND EQUIPMENT	LARGEST ALL OTHERS	125% 100%	1920 2232	1920 2992	1920 369	5760 5620					
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED			WATER HEATERS		125%	2813	2813	3125	8751					
			KITCHEN EQUIPMENT		③ 100%	----	----	----	----					
			FIX. ELEC. SPACE HEAT.		④ 100%	3800	1900	1900	7600					
			SHOW WINDOW LIGHTS		⑤ 125%	----	----	----	----					
			SIGN		125%	----	----	----	----					
			MISC		100%	----	----	----	----					
			PHASE (TOTAL VA)		10765	9625	10908	31298						
			TOTAL AMPS		90A	81A	91A							
			VOLT. AMPS.		120V X 1720 =	87A								
			TOTAL AMPS											

VERIFY ALL ELEVATOR EQUIP LOCATIONS/REQUIREMENTS PRIOR TO INSTALLATION												
Columbus Cty Courthouse E4.1 <b>REVISED PANEL- 'MDP'</b>		MAKE: <u>VERIFY</u>			RATING: <u>208/120V 3 PHASE 4 WIRE</u>			1000A MAIN CIRCUIT BREAKER				
		TYPE: <u>VERIFY</u>			MOUNTING: <u>SURFACE</u>			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
					MINIMUM AIC: <u>VERIFY</u>			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE
		A	B	C				A	B	C		
PANEL 'AC-1'	200A	9818			1	○ □ ○	2	8292			80A	DOAS-1 .
			8678		3	○ □ ○	4		8292			
				9689	5	○ □ ○	6			8292		
PANEL 'AC-3'	200A	15584			7	○ □ ○	8	28776			300A	PANEL 'M' .
			15584		9	○ □ ○	10		28596			
				15584	11	○ □ ○	12			28596		
PANEL 'A'	200A	---			13	○ □ ○	14	5160			200A	PANEL 'B' .
			---		15	○ □ ○	16		2876			
				---	17	○ □ ○	18			5595		
PANEL 'S1'	200A	17254			19	○ □ ○	20	9444			125A	ELEVATOR (VERIFY ALL REQUIREMENTS PRIOR TO INSTALLATION)
			16890		21	○ □ ○	22		9444			
				17228	23	○ □ ○	24			9444		
PANEL 'T1'	200A	13094			25	○ □ ○	26	---			125A	SPARE .
			10630		27	○ □ ○	28		---			
				13618	29	○ □ ○	30			---		
SPARE	200A	---			31	○ □ ○	32	---				SPACE .
			---		33	○ □ ○	34		---			
				---	35	○ □ ○	36			---		
SPARE	200A	---			37	○ □ ○	38	---			200A	SPARE .
			---		39	○ □ ○	40		---			
				---	41	○ □ ○	42			---		
NOTES	SUB-TOTALS 'B'	55750	51782	56119	X	1000A	BUS	51672	49208	51927	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
EXISTING BREAKER/CIRCUIT TO REMAIN <b>NEW/REVISED/RELOCATED BREAKER OR CIRCUIT</b>						1000A	LUGS	55750	51782	56119	SUB-TOTALS 'B'	
						1000A	FEED	107422	100990	108046	GRAND TOTAL	
						VERIFY	SIZE	895A	842A	900A	AMPS/PHASE	
NEC ALLOWABLE DEMAND FACTORS					DIVERSIFIED LOAD SUMMARY							

Columbus Cty Courthouse E4.1 <b>EXISTING PANEL- 'AC3'</b>		MAKE: <u>GE</u> TYPE: <u>GE LOAD CENTER</u>	RATING: <u>208/120V 3 PHASE 4 WIRE</u> MOUNTING: <u>SURFACE</u> MINIMUM AIC: <u>VERIFY</u>				<u>MLO</u> MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS _____ <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED _____ <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE
		A	B	C			A	B	C		
AHU	50A	---	---	---	1	○ □ ○	2	---	---	35A	ROOFTOP COND.
		---	---	---	3	○ □ ○	4	---	---		
		---	---	---	5	○ □ ○	6	---	---		
AHU	50A	---	---	---	7	○ □ ○	8	---	---		SPACE
		---	---	---	9	○ □ ○	10	---	---		
SPACE		---	---	---	11	○ □ ○	12	---	---		
SPACE		---	---	---	13	○ □ ○	14	---	---		SPACE
SPACE		---	---	---	15	○ □ ○	16	---	---		SPACE
SPACE		---	---	---	17	○ □ ○	18	---	---		SPACE
NOTES	SUB-TOTALS 'B' ---			X		200A	BUS	---	---	---	SUB-TOTALS 'A'
				X		200A	LUGS	---	---	---	SUB-TOTALS 'B'
				X		200A	FEED	---	---	---	GRAND TOTAL
				X		200A	SIZE	---	---	---	WIRE (MM²)

Columbus City Courthouse E4.1 <b>REVISED PANEL- 'AC3'</b>		MAKE: GE TYPE: GE LOAD CENTER	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: VERIFY			MLO MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE			CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE			CKT BRKR	LOAD SERVICE
		A	B	C				A	B	C		
<b>DOAS-2</b> .	<b>70A</b>	7792			1		2	7792			<b>DOAS-3</b> .	
			7792		3		4		7792			
				7792	5		6			7792		
<b>SPARE</b> .	<b>50A</b>	---			7		8	---			<b>SPACE</b> .	
			---		9		10		---			
<b>EF-3</b>	<b>20A</b>		528	11		12		---				
SPACE		---		13		14	---				SPACE	
SPACE		---		15		16	---				SPACE	
SPACE		---		17		18	---				SPACE	
<b>NOTES</b>	<b>SUB-TOTALS 'B'</b>	7792	7792	8320		200A	<b>BUS</b>	7792	7792	7792	<b>SUB-TOTALS 'A'</b>	<b>TOTAL CONNECTED LOAD</b>
EXISTING BREAKER/CIRCUIT TO REMAIN <b>NEW/REVISED BREAKER/CIRCUIT</b>					200A	<b>LUGS</b>	7792	7792	8320	<b>SUB-TOTALS 'B'</b>		
					200A	<b>FEED</b>	15584	15584	16112	<b>GRAND TOTAL</b>		
					VERIFY	<b>SIZE</b>	130A	130A	134A	<b>AMPS/PHASE</b>		
NEC ALLOWABLE DEMAND FACTORS				DIVERSIFIED LOAD SUMMARY								
<ol style="list-style-type: none"> <li>① DEMAND FACTORS PER NEC 220</li> <li>② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD</li> <li>③ NEC TABLE 220.56</li> <li>④ NEC 220.51</li> <li>⑤ NEC 220.43A, 200 VA/LINEAR FT</li> <li>⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED</li> </ol>				LOAD TYPE		DEMAND FACTOR ①	A	B	C	TOTAL DIVERSIFIED LOAD		
				GENERAL LIGHTING		② 125%	---	---	---	1047		
				TRACK LIGHTING		125%	---	---	---	---		
				GENERAL USE RECEPTACLES		≤10KVA@100%	---	---	---	---		
						>10KVA@50%	---	---	---	---		
				MOTORS AND EQUIPMENT		125% LARGEST	990	990	990	2970		
						ALL OTHERS	100%	792	792	1320	2904	
				WATER HEATERS		125%	---	---	---	---		
				KITCHEN EQUIPMENT		③ 100%	---	---	---	---		
				FIX. ELEC. SPACE HEAT.		④ 100%	14000	14000	14000	42000		
SHOW WINDOW LIGHTS		⑤ 125%	---	---	---	---						
SIGN		125%	---	---	---	---						
MISC		100%	---	---	---	---						
		<b>PHASE (TOTAL VA)</b>	15782	15782	16310	47874						

A circular seal for the North Carolina Professional Engineers Board. The outer ring contains the words "NORTH CAROLINA" at the top and "PROFESSIONAL" at the bottom, separated by a wavy line. The inner circle contains the word "SEAL" above the number "22038".

## ELECTRICAL PANELS & RISER

**19035**

ISSUED: 8/8/2022

DWG BY: DS

CKD BY: BEB

