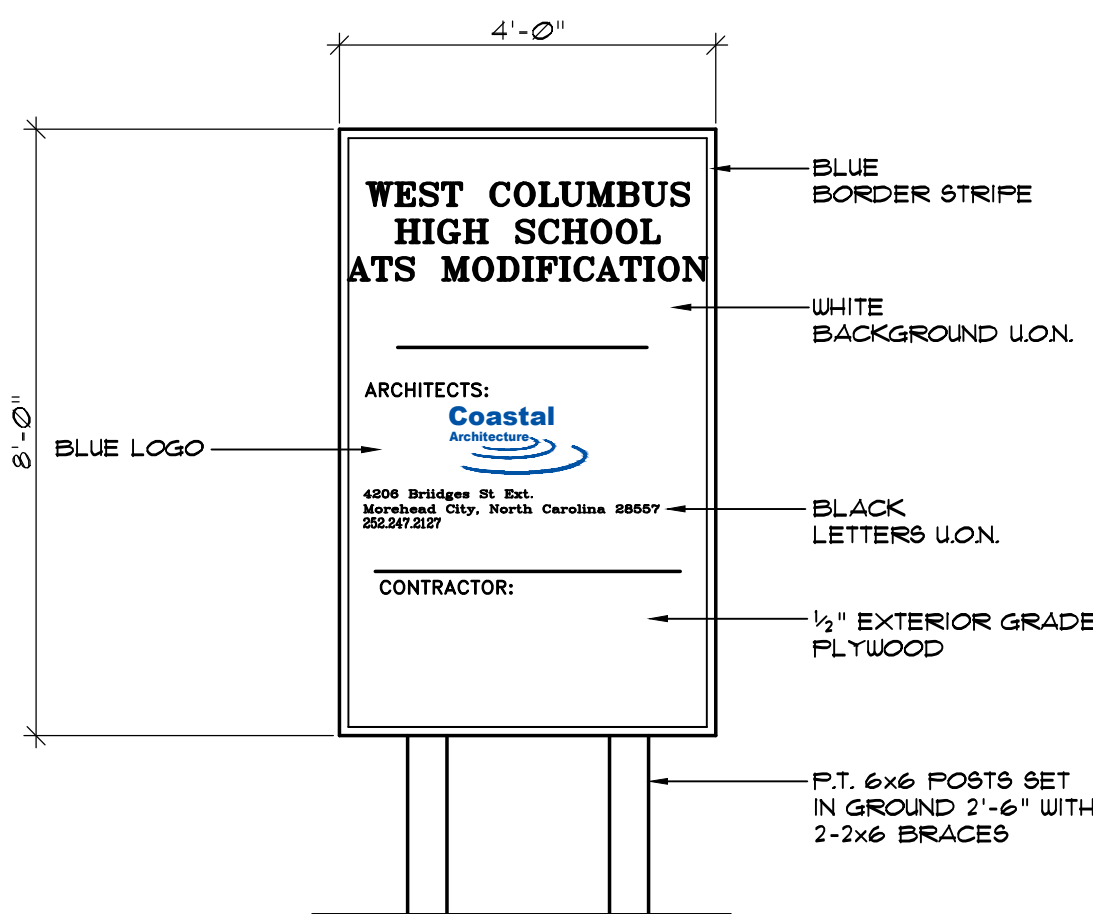


WEST COLUMBUS HIGH SCHOOL

ATS MODIFICATION

7294 ANDREW JACKSON HIGHWAY SOUTHWEST
CERRO GORDO, NORTH CAROLINA

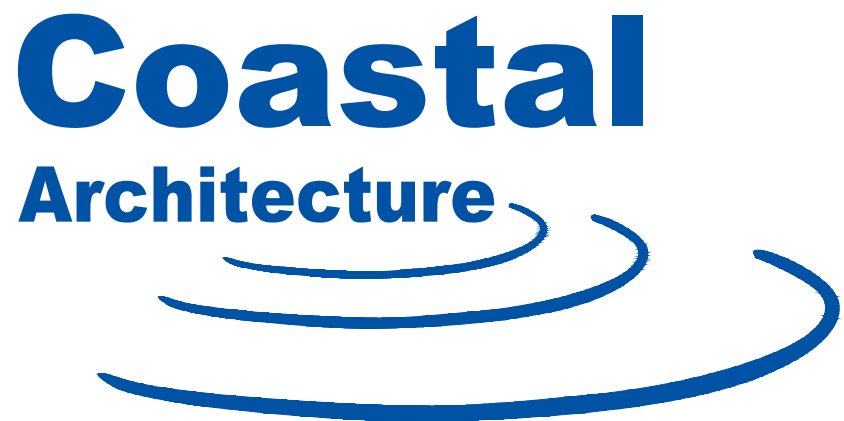


1 PROJECT SIGN
CS-1 NOT TO SCALE

NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.

DRAWING LIST

CS-1	COVER SHEET
E1	ELECTRICAL SPECS AND DETAILS
E2.1	ELECTRICAL - PLAN A
E2.2	ELECTRICAL - PLAN B
E3	ELECTRICAL PANELS AND RISERS



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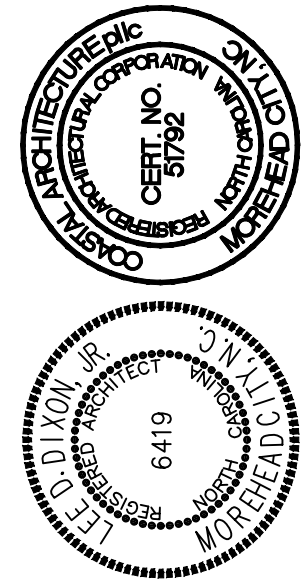
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WEST COLUMBUS HIGH SCHOOL
ATS MODIFICATIONS
CERRO GORDO, NORTH CAROLINA



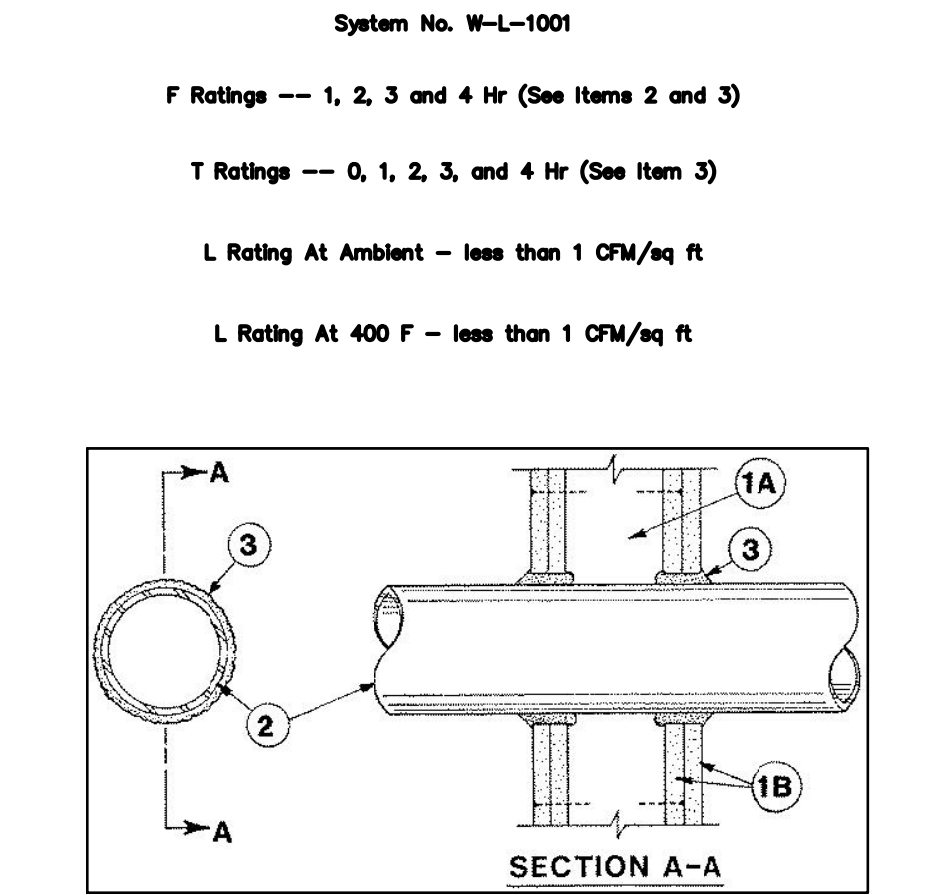
COVER SHEET

25023

ISSUED: 7/28/2026
DWG BY: MSG
CKD BY: LDD

REVISIONS

SHEET NO.
CS-1
OF



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 hr 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 and 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** --- One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 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 soil 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 TITELUX**
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**
- F. **Void or Cavity Materials** --- **Caulk or Sealant** --- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk 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 or size of the pipe or conduit 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+, 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

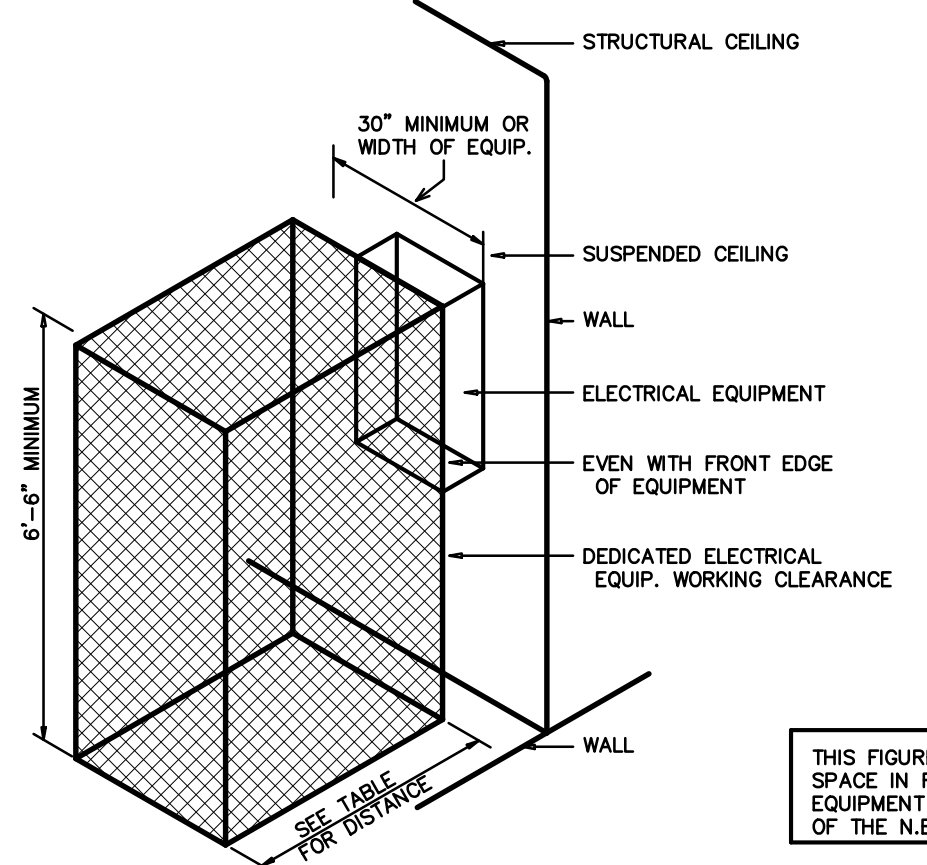
+When copper pipe is used, T Rating is 0 hr.

3M COMPANY --- OP 25WB+ or FR-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:
- Electrical service and service equipment.
 - Lighting and power distribution system.
 - Provide lighting fixtures selected by owner with lamps to match.
 - Wiring devices, boxes, cover plates, etc.
 - Source of power for all items of equipment.
 - Grounding.
 - 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 insofar as they apply:
- The 2020 National Electrical Code.
 - The National Electrical Safety Code.
 - Underwriter's Laboratories, Inc., Standards and approved listings.
 - Electrical Testing Laboratories standards.
 - North Carolina Building Code, Latest Edition and Revisions.
 - 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 work and pay for the same. 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 of apparent conflicts early to expedite 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.
- PART 2 -- 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 standards have been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
- Boxes installed in concealed locations shall be set flush with the finished surfaces.
 - 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 #8 and larger may be color taped on the job. Color coding shall be Standard Practice.
- B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA 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 taped as follows:
- Size #10 and #12, use Ideal "Wing Nuts" or TAB "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
 - Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
 - No split-bolt type connectors may be used.
- E. All branch wire and 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 2020 NEC, 210.4(B).
- J. All wiring of medical facilities shall comply with 2020 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 load 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. approved.
- B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.
- PART 3 -- 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 bus in panelboard and securely attached and grounded to the device or enclosure at the other end.
- 3.2 **GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES**
- A. Outlets and switches shall be solidly 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 on the 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 equipment with stainless steel screws. Nameplates 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 indicated where they terminate.
- D. Provide typewritten 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:
- Grounding conductors shall be installed so to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
 - Equipment ground continuity shall be maintained through flexible metal conduit.
 - All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
 - The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
- 3.12 **ELECTRICAL WORK IN CONNECTION WITH OTHER WORK**
- A. **PLUMBING WORK:** The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.
- B. **HEATING AND AIR CONDITIONING WORK:** The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.
- 3.13 **CLEAN UP**
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- 3.14 **GUARANTEE**
- A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.



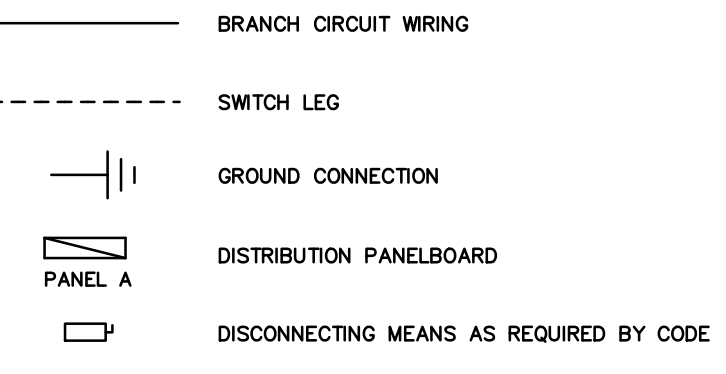
ELECTRICAL EQUIPMENT WORKING CLEARANCE
PER ARTICLE 110-26 OF N.E.C.

VOLTAGE TO GROUND NOMINAL	MIN. CLEAR DISTANCE IN FEET		
	CONDITION 1	2	3
0-150	3	3-1/2	4
151-600			

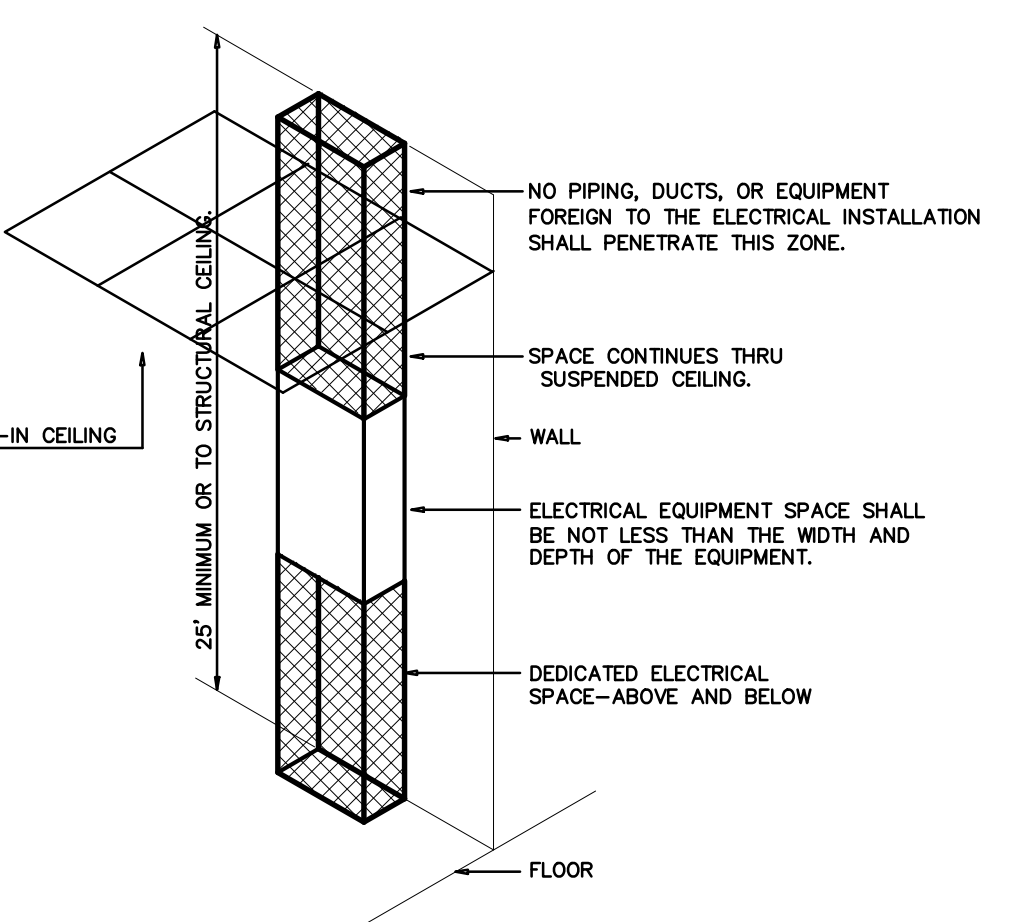
- WHERE THE CONDITIONS ARE AS FOLLOWS:**
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDING PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSHINGS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
 - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDING PARTS ON THE OTHER SIDE.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

1 ELECTRICAL CLEARANCES
SCALE: NTS

ELECTRICAL LEGEND



- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC).
- ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

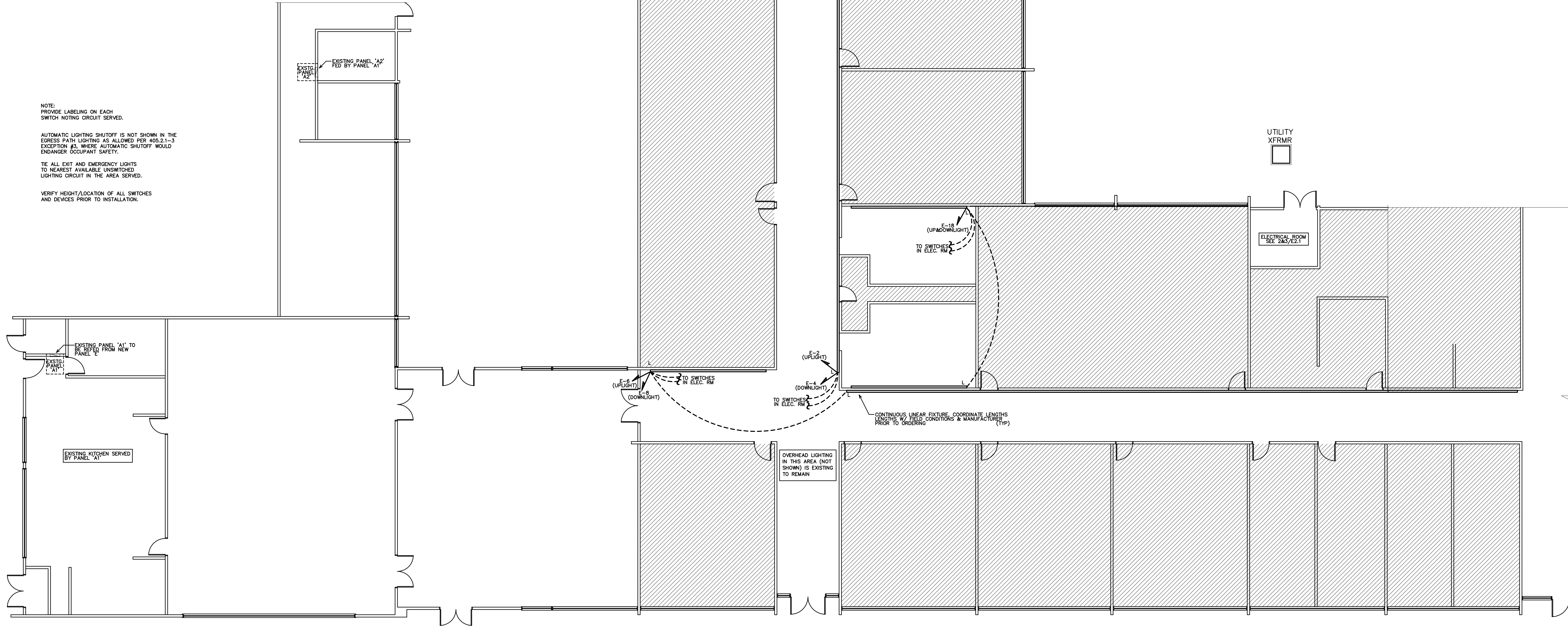


ELECTRICAL EQUIPMENT DEDICATED SPACE
PER ARTICLE 110.26.F.1 OF N.E.C.

2 DEDICATED SPACE
SCALE: NTS

LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS	BALLAST	W/	REMARKS		
L	STARTER	SLIMDI-X-1000-1000-SD-CL-35K-80-PW-WM-U-2C	120	LED	-	15/FT	CONTINUOUS WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING		

* OR APPROVED EQUAL. PROVIDE QUIT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.



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

2 EXISTING ELEC RM POWER PLAN
SCALE: 1/4" = 1'-0"

3 PROPOSED ELEC RM POWER PLAN
SCALE: 1/4" = 1'-0"

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

Coastal
Architecture
P.L.L.C.

Architectural
Design
Planning
Interiors



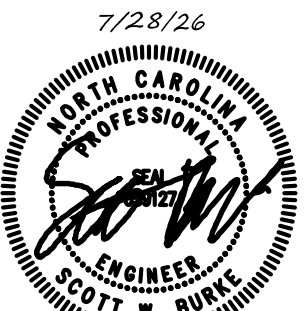
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ELECTRICAL PLAN B

25023

ISSUED: 7/28/2026

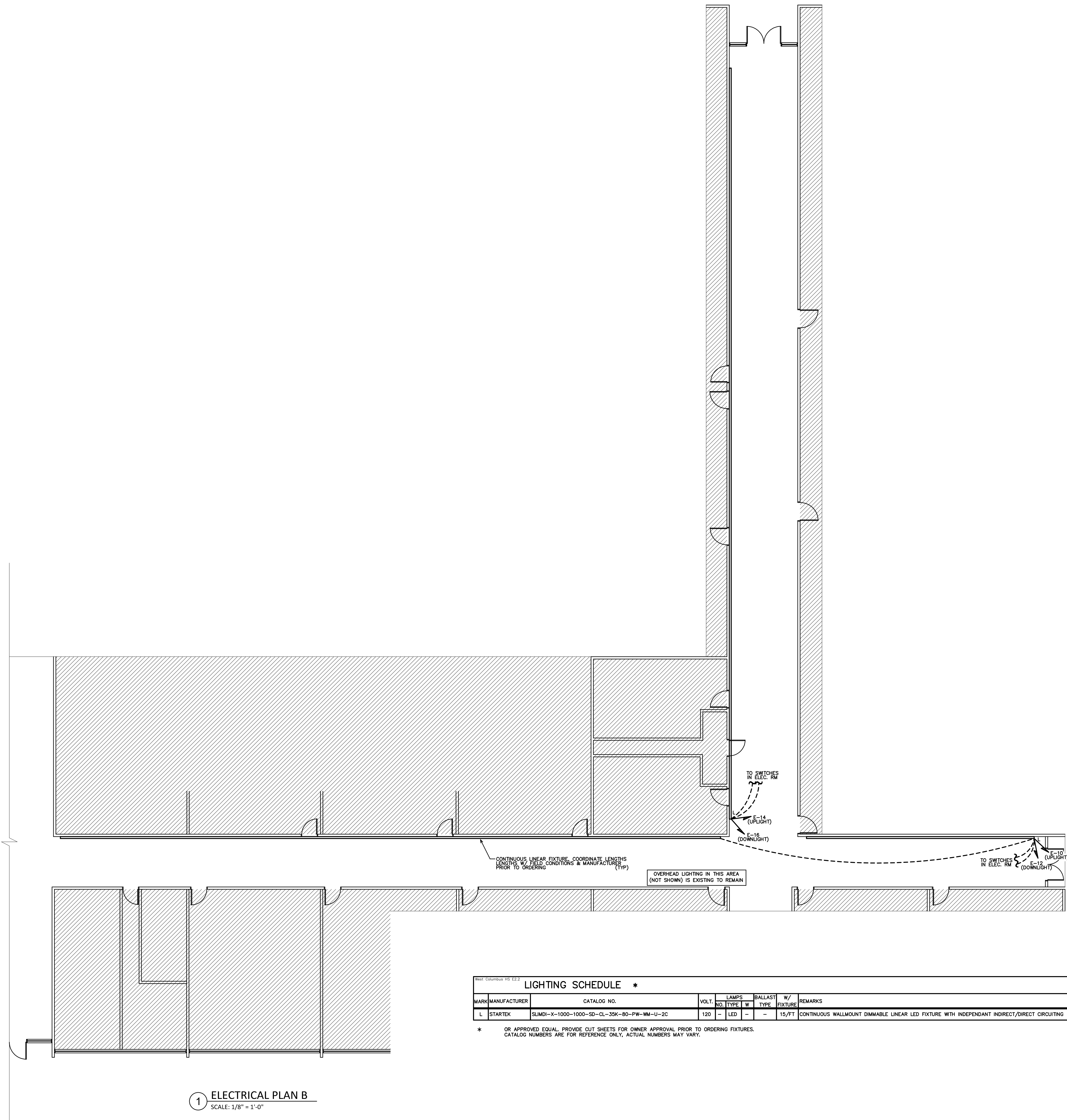
DWG BY: SWB

CKD BY: BEB

REVISIONS

SHEET NO.

E2.2



LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE W.	BALLAST TYPE	W/ FIXTURE	REMARKS		
L	STARTEK	SLMDI-X-1000-1000-SD-CL-35K-80-PW-WM-U-2C	120	- LED -	-	15/FT	CONTINUOUS WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING		

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
CATALOG NUMBERS ARE FOR REFERENCE ONLY. ACTUAL NUMBERS MAY VARY.

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

NEW OR REVISED E3		MAKE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE	M.L.O. MAIN CIRCUIT BREAKER
EXISTING		TYPE: VERIFY	MOUNTING: SURFACE	EQUIPMENT GROUND BUS ☒ YES ☐ NO
REVIS		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED ☐ YES ☒ NO
OKT NO	LOAD SERVICE	OKT BRKR	WATTS PER PHASE A B C	NEUTRAL A B C
1	PANEL 'BA'	225A		
2				
3				
4	PANEL 'AD'	350A		
5				
6				
7				
8				
9				
10	PANEL 'CD'	600A		
11				
12				
13				
14				
15				
16	SPACE			
17				
18				
19	PLUG-ON LUG SPACE			
20				
21				
22				
23				
24				
NOTES		J200A. BUS/LUGS	TOTAL WATTS	TOTAL CONNECTED LOAD
		J200A. FEED	AMPS/PHASE	

NEW OR REVISED E3		MAKE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE		M.L.O. MAIN CIRCUIT BREAKER		
REVIS		TYPE: VERIFY	MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO		
NEW PANEL - 'X'		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED ☐ YES ☒ NO			
OKT NO	LOAD SERVICE	OKT BRKR	WATTS PER PHASE			NEUTRAL	
			A	B	C	A B C	
1	PANEL 'BA'	225A	13800				
2							
3							
4	PANEL 'AD'	350A	21000	13500			
5							
6				21000			
7		600A		21000			
8							
9							
10	PANEL 'CD'	600A	36000				
11							
12				36000			
13		600A		36000			
14							
15							
16	SPACE	600A					
17							
18							
19	NEW PANEL 'E'	600A	52400				
20	(VA NEW SUBFEED KIT ON PLUG-ON LUG)						
21				51950			
22		600A		49590			
23							
24							
NOTES		J200A. BUS/LUGS	22900	122450	202090	TOTAL WATTS	
		J200A. FEED	1025A	1021A	1001A	TOTAL CONNECTED LOAD	
			AMPS/PHASE				
EXISTING BREAKER/CIRCUIT TO REMAIN							
NEW OR REVISED BREAKER/CIRCUIT							
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY					
		LOAD TYPE	DEMAND FACTOR	A	B	C	TOTAL DIVERSIFIED LOAD
1		DEMAND FACTORS PER NEC 220					
2		LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD					
3		NEC TABLE 220.56					
4		NEC 220.51					
5		NEC 220.43A, 200 VA/LINEAR FT					
6		NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED					
		GENERAL LIGHTING	125%	3750	3938	3488	11176
		TRACK LIGHTING	125%				
		GENERAL USE RECEPTACLES	100%				
		MOTORS AND EQUIPMENT	125%				
		WATER HEATERS	100%				
		KITCHEN EQUIPMENT	100%				
		FIX. ELEC. SPACE HEAT.	100%				
		SHOW WINDOW LIGHTS	125%				
		SIGN	100%				
		MISC.	100%	119000	126300	173000	384550
		PHASE (TOTAL VA)		1031A	1027A	1007A	367676
		TOTAL AMPS		1031A	1027A	1007A	TOTAL
		VOLTS X 1.732					1022A
		TOTAL AMPS					TOTAL

NEW PANEL - 'E'		MAKE: EATON TYPE: PBL3A OR APPROVED EQUAL		RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM ALC: VERIFY				M.L.O. MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ☒ YES ☐ NO SERVICE ENTRY RATED ☐ YES ☒ NO							
LOAD SERVICE		OKT BRKR A B C			WATTS PER PHASE NO			OKT BRKR A B C			LOAD SERVICE				
SPACE				1		2	990			20A	LTS, UPLIGHT - HALL, LEFT WING				
SPACE				3		4	990			20A	LTS, DOWNLIGHT - HALL, LEFT WING				
SPACE				5		6	1020		1020	20A	LTS, UPLIGHT - HALL, LEFT MAIN				
SPACE				7		8	1020			20A	LTS, DOWNLIGHT - HALL, LEFT MAIN				
SPACE				9		10	1170		1170	20A	LTS, UPLIGHT - HALL, RIGHT MAIN				
SPACE				11		12				20A	LTS, DOWNLIGHT - HALL, RIGHT MAIN				
SPACE				13		14	990			20A	LTS, UPLIGHT - HALL, RIGHT WING				
SPACE				15		16	990			20A	LTS, DOWNLIGHT - HALL, RIGHT WING				
SPACE				17		18	600		600	20A	LTS, UP/DOWNLIGHT - RESTROOMS				
SPACE				19		20				20A	SPARE				
SPACE				21		22				20A	SPARE				
SPACE				23		24				20A	SPARE				
SPACE				25		26				20A	SPARE				
SPACE				27		28				20A	SPARE				
SPACE				29		30				20A	SPARE				
SPACE				31		32				20A	SPARE				
SPACE				33		34				20A	SPARE				
SPACE				35		36				20A	SPARE				
SPACE				37		38	49400				PANEL 'A1'				
SPACE				39		40	48800			600A	(VIA SUBFEED BREAKER)				
SPACE				41		42	46800				(REFEED EXISTING PANEL)				
NOTES		SUB-TOTALS 'B'			600A BUS 52400 51950 49590			SUB-TOTALS 'A'			TOTAL CONNECTED LOAD				
					600A LUGS			SUB-TOTALS 'B'							
					600A FEED 52400 51950 49590			GRAND TOTAL							
					MINIMUM SIZE 437A 433A 414A			AMPS/PHASE							
NEC ALLOWABLE DEMAND FACTORS				DIVERSIFIED LOAD SUMMARY											
				LOAD TYPE		DEMAND FACTORS		A		B		C		TOTAL DIVERSIFIED LOAD	
1				LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		3750		3938		11176	
2				NEC TABLE 220.56		TRACK LIGHTING		125%							
3				NEC 220.51		GENERAL USE RECEPTACLES		100%							
4				NEC 220.43A, 200 VA/LINEAR FT		MOTORS AND EQUIPMENT		125%							
5				NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		WATER HEATERS		100%							
						KITCHEN EQUIPMENT		100%							
						FIX. ELEC. SPACE HEAT.		100%							
						SHOW WINDOW LIGHTS		125%							
						SIGN		100%							
						MISC.		100%							
						PHASE (TOTAL VA)		51950		52739		52286		156776	
						TOTAL AMPS		443A		440A		420A		58176	
						VOLTS X 1.732								434A	
						TOTAL AMPS									

(ATS-X) AUTOMATIC TRANSFER SWITCH SCHEDULE

ATS "LIFE SAFETY" * ASCO MODEL#A-07ATS-B-3-0600-C-50-M, AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION, 600 AMP, 208/120 VOLT, 3 PHASE, NEMA 3R RATED.

* OR APPROVED EQUAL

TERMINAL CABINET SCHEDULE

TERMINAL CABINET * ASCO MODEL#30C-NC-A-A-3-0600-F-0-F TERMINAL CABINET, 600 AMP 208/120 VOLT 3 PHASE, NEMA 3R RATED.

* OR APPROVED EQUAL

SCOPE OF WORK STATEMENT

EXISTING:
(1) 480/277V 3PH - 800 AMP
(2) 208/120V 3PH - 2500 AMP
(3) 208/120V 3PH - 2500 AMP
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