

Panel		ROOM		VOLTS		208Y/120V 3P 4W		AIC EXISTING			
C-1		MOUNTING SURFACE		BUS AMPS		225		MAIN BKR 225			
		FED FROM UTILITY		NEUTRAL		100%		LUGS STANDARD			
NOTE EXISTING PANEL.											
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.92	EXISTING LIGHTS	d 2	20/1	1.92	EXISTING LIGHTS				
3	20/1	1.92	EXISTING LIGHTS	b 4	20/1	1.92	EXISTING LIGHTS				
5	20/1	1.92	EXISTING RECEPTACLES	c 6	20/1	1.92	EXISTING LIGHTS				
7	20/1	1.92	EXISTING RECEPTACLES	d 8	20/1	1.92	EXISTING LIGHTS				
9	20/1	1.92	EXISTING LIGHTS	b 10	20/1	1.92	EXISTING RECEPTACLES				
11	20/1	1.92	EXISTING RECEPTACLES	c 12	20/1	1.92	EXISTING RECEPTACLES				
13	20/1	1.92	EXISTING RECEPTACLES	d 14	20/1	1.92	EXISTING RECEPTACLES				
15	20/1	1.92	EXISTING TIMECLOCK	b 16	20/1	1.92	EXISTING RECEPTACLES				
17	20/1	1.92	EXISTING RECEPTACLES	c 18	20/1	1.92	EXISTING TRANSMITTER				
19	20/1	1.92	EXISTING LIGHTS	d 20	20/1	1.92	EXISTING TIMECLOCK				
21	20/1	1.92	EXISTING LIGHTS	b 22	20/1	1.92	EXISTING TIMECLOCK				
23	20/1	1.92	EXISTING LIGHTS	c 24	20/1	1.92	EXISTING LOAD				
25	20/1	1.92	EXISTING RECEPTACLES	d 26	20/1	1.92	EXISTING RECEPTACLES				
27	20/1	1.92	EXISTING IT ROOM RECEPT.	b 28	20/1	1.92	EXISTING RECEPTACLES				
29	30/2	2.8	EXISTING HW LOAD	c 30	20/1	1.92	EXISTING RECEPTACLES				
31				d 32	30/2	2.8	EXISTING LOAD				
33	30/2	2.8	EXISTING A/C UNIT	b 34							
35				c 36	20/1	0	SPACE				
37	20/1	0.252	NEW EXTERIOR WALL PACKS	d 38	20/1	0	SPACE				
39	20/1	0	SPACE	b 40	20/1	0	SPACE				
41	20/1	0	SPACE	c 42	20/1	0	SPACE				
		CONN KVA		CALC KVA		CONN KVA		CALC KVA			
LIGHTING		25.2	31.5	(125%)	RECEPTACLES		33.5	21.8	(50%>10)		
LARGEST MOTOR		2.8	0.7	(25%)	COOLING		5.6	5.6	(100%)		
		TOTAL LOAD				BALANCED 3-PHASE LOAD		59.6			
		PHASE A				PHASE B		104%			
		PHASE C						103%			
								93.6%			

EXISTING LOADS ARE APPROXIMATIONS. EC TO FIELD VERIFY EXISTING LOADS PRIOR TO BEGINNING WORK.

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
EX1	☒	LED EMERGENCY EXIT SIGN WITH 90 MIN BATTERY BACK.	LITHONIA	LOM S W 3 R 120/277 EL N M6
EX2	☒	DOUBLE FACED LED EMERGENCY EXIT SIGN WITH 90 MIN BATTERY BACK UP.	LITHONIA	LOM S W 3 R 120/277 EL N M6
S	○	1X4 WET LOCATION SSTRIP FIXTURE.	LITHONIA	CSV1 L48 AL03 MVOLT SWW3 80 CRI
W	□	SQUARE EXTERIOR WALL PACK.	LITHONIA	TWR1 LED ALO SWW2 UVOLT PE DDBTXD

GENERAL NOTES:
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

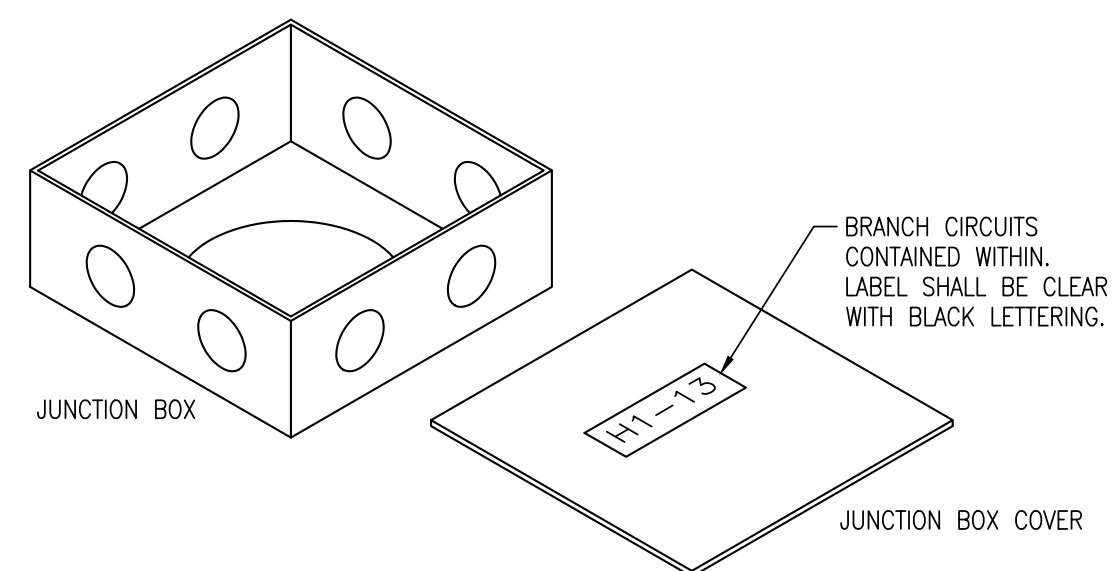
ELECTRICAL ABBREVIATIONS			
AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNCIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GF	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	#	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

ELECTRICAL LEGEND	
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

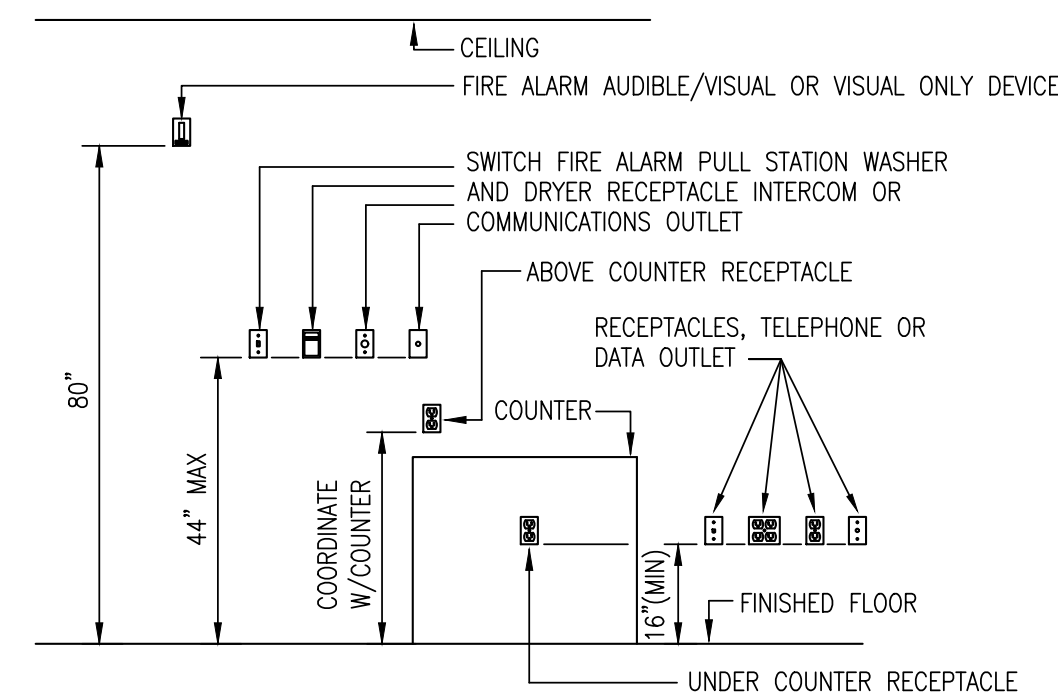
GENERAL ELECTRICAL NOTES	
1.	CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2.	ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4.	SEE TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6.	INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
7.	UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
8.	ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.

FIXTURE LINE PHASE STYLES	
LINE STYLE	DESCRIPTION
	EXISTING FIXTURES TO REMAIN
	NEW/REPLACEMENT FIXTURES

ELECTRICAL SHEET INDEX	
E-000	ELECTRICAL TITLE SHEET
E-100	ELECTRICAL SPECIFICATIONS
E-101	ELECTRICAL LIGHTING PLAN

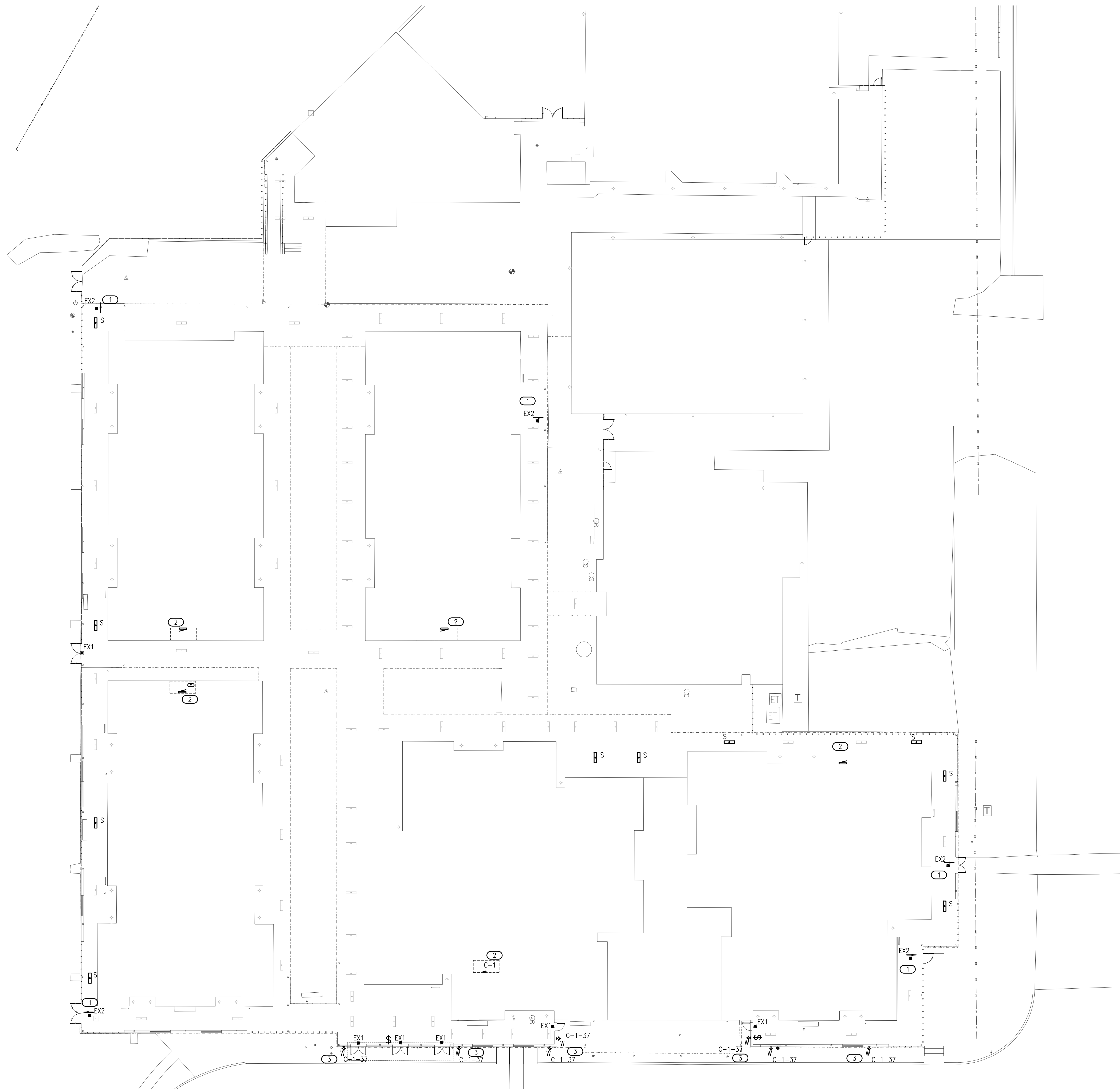


2 JUNCTION BOX LABELING DETAIL
NO SCALE



1 TYP OUTLET MOUNTING DETAIL
NO SCALE





- LIGHTING GENERAL NOTES**
1. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
 2. COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
 3. LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
 4. ALL NEW DEVICES TO BE GRAY UNLESS OTHERWISE NOTED.
 5. ALL NEW LIGHTING TO BE CONNECTED TO EXISTING EXTERIOR LIGHTING CIRCUITS, UNLESS OTHERWISE NOTED IN DRAWINGS. EC TO DETERMINE PEAK LOAD ON PANEL AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEERING BEFORE PROCEEDING.
 6. PROVIDE NEW LIGHTING CONTACTOR. NEW LIGHTS SHALL BE CONTROLLED BY CONTACTOR TO INTERLOCK WITH EXISTING LIGHTING CONTROLS. EC SHALL FIELD INVESTIGATE AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.

- KEYED NOTES**
- 1 NEW EXIT SIGN TO BE CEILING MOUNTED AND TO BE PLACED UNDER CANOPY.
 - 2 APPROXIMATE LOCATION OF EXISTING PANELS. EC TO FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS.
 - 3 EC TO PROVIDE NEW 120V CONNECTION FOR NEW WALL PACKS.

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KFC ENGINEERING
 STRUCTURAL
 SALAS O'BRIEN
 MECHANICAL / ELECTRICAL



JV
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 date
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MOORE PUBLIC SCHOOLS
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WINDING CREEK
 ELEMENTARY SCHOOL
 SECURITY UPGRADES

sheet no:
E-101

1 ELECTRICAL LIGHTING PLAN
 SCALE: 1/20" = 1'-0"



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 Salas O'Brien Registration: CA# 7058
 Expiration Date: 6/30/2025
 Salas O'Brien Project Number: 2024-01098-00

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