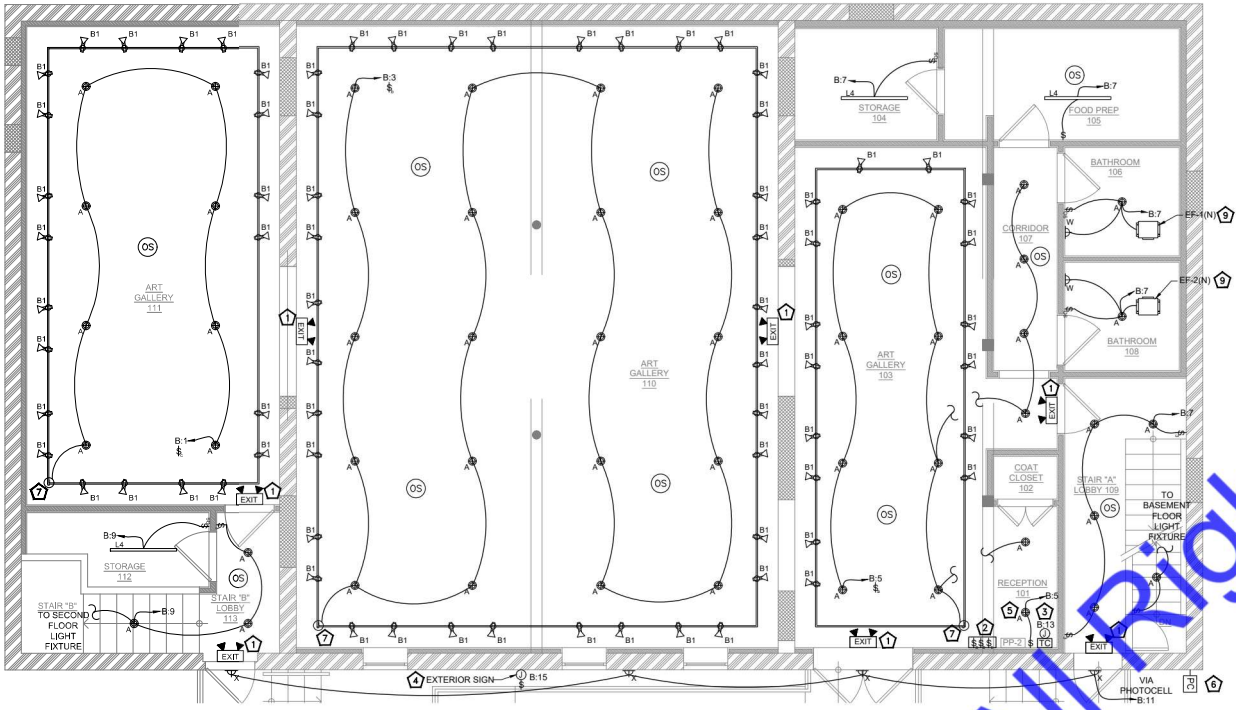
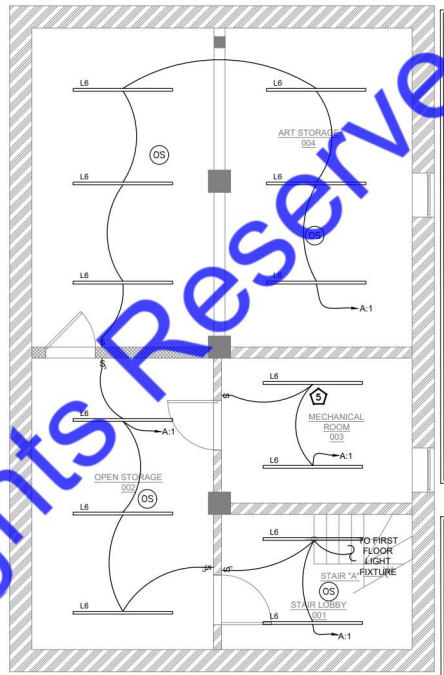
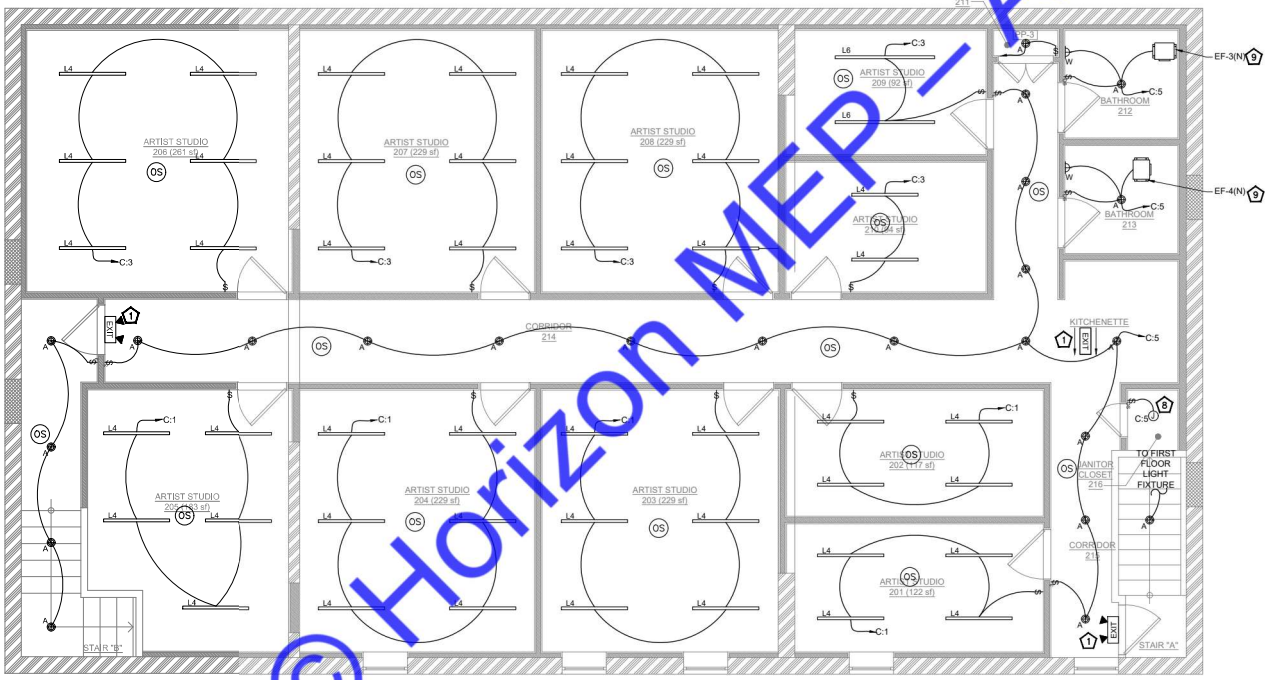


2 FIRST FLOOR LIGHTING PLAN

1/4"=1'-0"



1 BASEMENT FLOOR LIGHTING PLAN



3 SECOND FLOOR LIGHTING PLAN

1/4"=1'-0"

ELECTRICAL LIGHTING PLAN KEY NOTES:

1. CONNECT NEW EMERGENCY AND EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
2. COORDINATE EXACT LOCATION OF THE SWITCH BANK WITH OWNER/ ARCHITECT.
3. PROVIDE TIME CLOCK FOR THE BUILDING SIGNAGE. E.C SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION. BASE BID ACCORDINGLY.
4. PROVIDE A DISCONNECT SWITCH AT FEEDER OR BRANCH CIRCUIT ENTERS THE SIGN PER NEC. VERIFY EXACT MOUNTING HEIGHT AND LOCATION FOR SIGNAGE POWER WITH ARCHITECTURAL ELEVATIONS, SIGN VENDOR, AND LANDLORD. ROUTE CIRCUIT TO PANEL VIA TIME CLOCK.
5. LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE COMPILED AS PER NEC 110.26(D).
6. PROVIDE WALL MOUNTED PHOTOCELL FOR THE EXTERIOR LIGHT FIXTURES. E.C SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION. BASE BID ACCORDINGLY.
7. E.C SHALL COORDINATE WITH OWNER/MANUFACTURER/VENDOR FOR THE EXACT REQUIREMENT OF THE TRACK LIGHTS. PROVIDE CURRENT LIMITER ONLY IF REQUIRED. REPORT ENGINEER ON RECORD FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.
8. PROVIDE JUNCTION BOX IN THE JANITOR CLOSET FOR THE LIGHT FIXTURE. E.C SHALL COORDINATE WITH THE OWNER/ARCHITECT FOR THE LIGHT FIXTURE IN THE JANITOR CLOSET. REPORT ENGINEER ON RECORD FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.
9. INTERCONNECT EXHAUST FANS EF-1, 2, 3 & 4(N) WITH ROOM LIGHTS. E.C. TO COORDINATE WITH MECHANICAL DRAWINGS.

NOTES:(APPLY TO ALL FIXTURES WHERE APPLICABLE)

A. EMERGENCY FIXTURES - ALL FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A 90-MINUTE BATTERY PACK AND ALL FLUORESCENT FIXTURES.

B. VERIFY VOLTAGES - E.C SHALL VERIFY VOLTAGES ON DRAWINGS PRIOR TO ORDERING OR ANY WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES IN THE VOLTAGE OF THE CIRCUITING ON THE DRAWINGS AND THE LUMINAIRE SCHEDULE PRIOR TO ANY PURCHASE OR WORK.

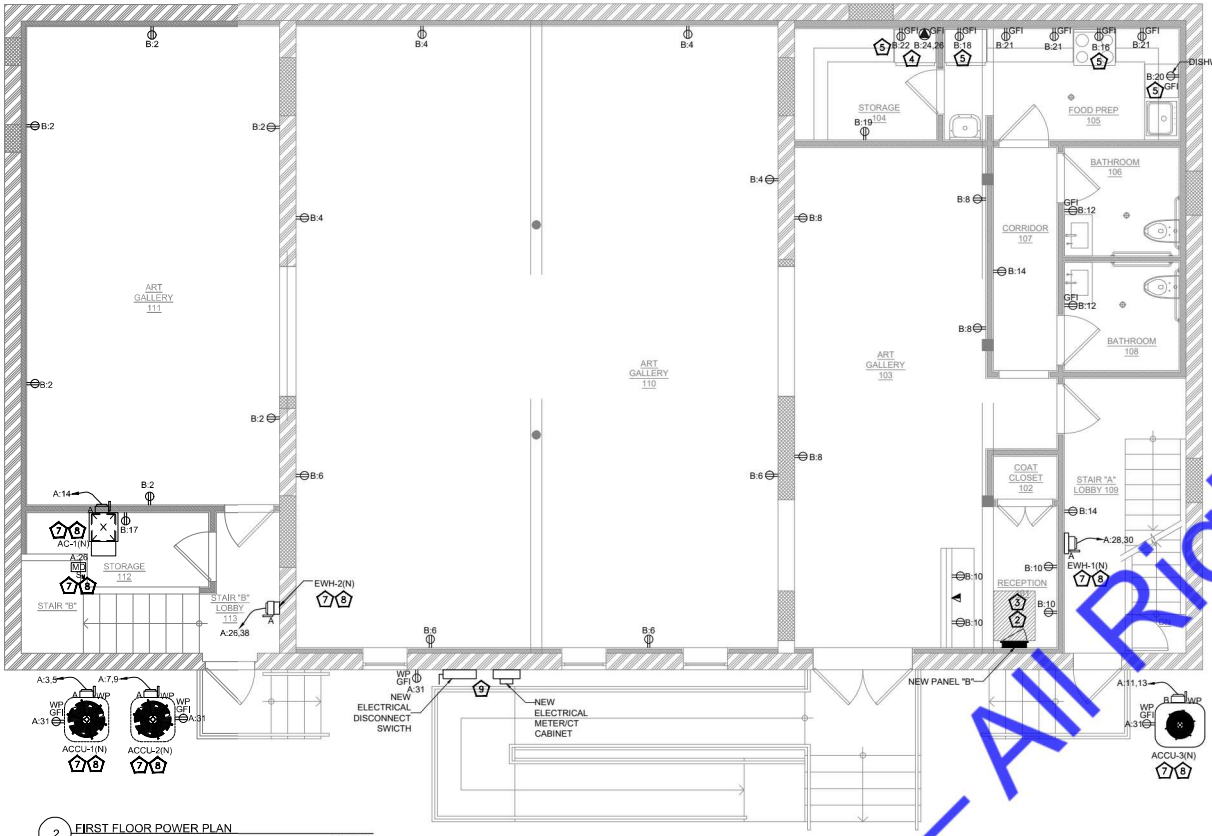
C. VERIFY LAMPING - E.C SHALL VERIFY LAMPING WITH THE MANUFACTURER PRIOR TO ORDERING AND NOTIFY THE ENGINEER OF ANY LAMPING DISCREPANCIES.

D. PROVIDE A COMPLETE INSTALLATION - E.C SHALL PROVIDE ALL LABOR AND MATERIAL TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM PER THE DESIGN INTENT AS DICTATED BY THE SWITCHING TYPE AND LOCATION (INCLUDING DIMMER SWITCHES AND COMPATIBLE BALLASTS OR TRANSFORMERS), CEILING TYPE AND LOCATION, CIRCUITING, VOLTAGES, AND LAMPING TYPES.

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

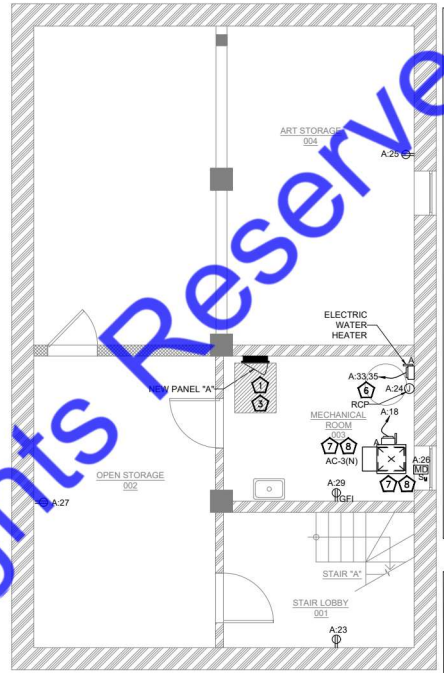
A. CONTRACTOR ARE ADVISED TO UPDATE THE EMERGENCY LIGHT FIXTURES LOCATIONS/QUANTITY PER SITE REQUIREMENT UP ON FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT. ONE FOOT CANDLE OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ALONG ALL EGRESS PATHWAYS AND EMERGENCY SIGN SHALL BE INSTALLED AT ALL INTERSECTIONS. EXIT CORRIDORS, PATHWAYS AND EXIT EGRESS OPENINGS IN ACCORDANCE WITH THE IBC 1008.3.1 MEANS OF EGRESS ILLUMINATION.THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF ≥90MINUTES AND SHALL CONSIST OF STORAGE BATTERIES.

Fixture Type	Discription	Manufacturer	Model Number	Quantity	Fixture Wattage
A	4" DIA. LED RECESSED LIGHT	PRESCOLITE	LBRST 4RD M LS SL CS9 WH /LBRST-4RD-T-WH FRAME4R-HB-J9	75	19.1W
B1	TRACK MOUNTED LIGHT FIXTURE ON CEILING MOUNTED MONO-RAIL TRACK	SATCO	NUVO TH741	74	30W
L4	4' LINEAR LED LIGHT - RECESSED IN GYPSUM BOARD CEILING	LITECONTROL	4L DW D 4 04 SOF C1 30K9 D100 DO1 IC UNV.-J9	48	40.8W
L6	6' LINEAR LED LIGHT - RECESSED IN GYPSUM BOARD CEILING	LITECONTROL	4L DW D 6 06 SOF C1 30K9 D100 DO1 IC UNV.-J9	15	61.2W
W	ABOVE MIRROR WALL MOUNTED LED FIXTURE	LUMENCIA	LL63149 24 5MCT BN-J9	4	15W
X	EXTERIOR WALL MOUNTED LED FLOOD FIXTURE.	EXO	SG1-30 3K7 FT UNV CTBS CS-J9	4	30W
EX	EXIT LIGHT FIXTURE W/ DIRECTIONAL ARROWS	COMPASS	CER J9	1	1.78W
EX-1	ILLUMINATED EXIT LIGHT AND TWO LAMP EMERGENCY LIGHT COMBO. W/ BATTERY BACK-UP	COMPASS	CCRSD J9	7	4.58W



2 FIRST FLOOR POWER PLAN

1/4"=1'-0"



1 BASEMENT FLOOR POWER PLAN

ELECTRICAL LIGHTING PLAN KEY NOTES:

1. NEW 400A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
2. NEW 100A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
3. E.C. SHALL VERIFY/PERFORM THE INSTALLATION OF ELECTRICAL PANELS IN COMPLIANCE WITH NEC ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.
4. ELECTRICAL SUPPLY FOR THE STACKABLE WASHER & DRYER. E.C. SHALL COORDINATE WITH THE OWNER/MANUFACTURER FOR THE EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONNECTION TYPE AND POWER REQUIREMENT WITH EQUIPMENT MANUFACTURER.BASE BID ACCORDINGLY.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE WATER HEATER & RCP MANUFACTURER FOR THE EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION OF THE MECHANICAL UNITS IN THE FIELD.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNIT IS FIELD PROVIDE CIRCUIT AND CONTROL AS REQUIRED.
9. NEW 400A, 120/240V, 1-PHASE, 3-WIRE ELECTRICAL METER, THE DISCONNECT & CT CABINET FOR THE PROJECT SPACE. E.C SHALL COORDINATE WITH UTILITY FOR CT CABINET EQUIPMENT & PROVIDE ONLY IF REQUIRED. PROVIDE PER UTILITY SPECIFICATIONS. E.C. SHALL ALSO COORDINATE WITH OWNER /LANDLORD/UTILITY COMPANY FOR LOCATION AND EQUIPMENT INSTALLATION. BASE BID ACCORDINGLY.

ELECTRICAL FLOOR POWER PLAN GENERAL NOTES:

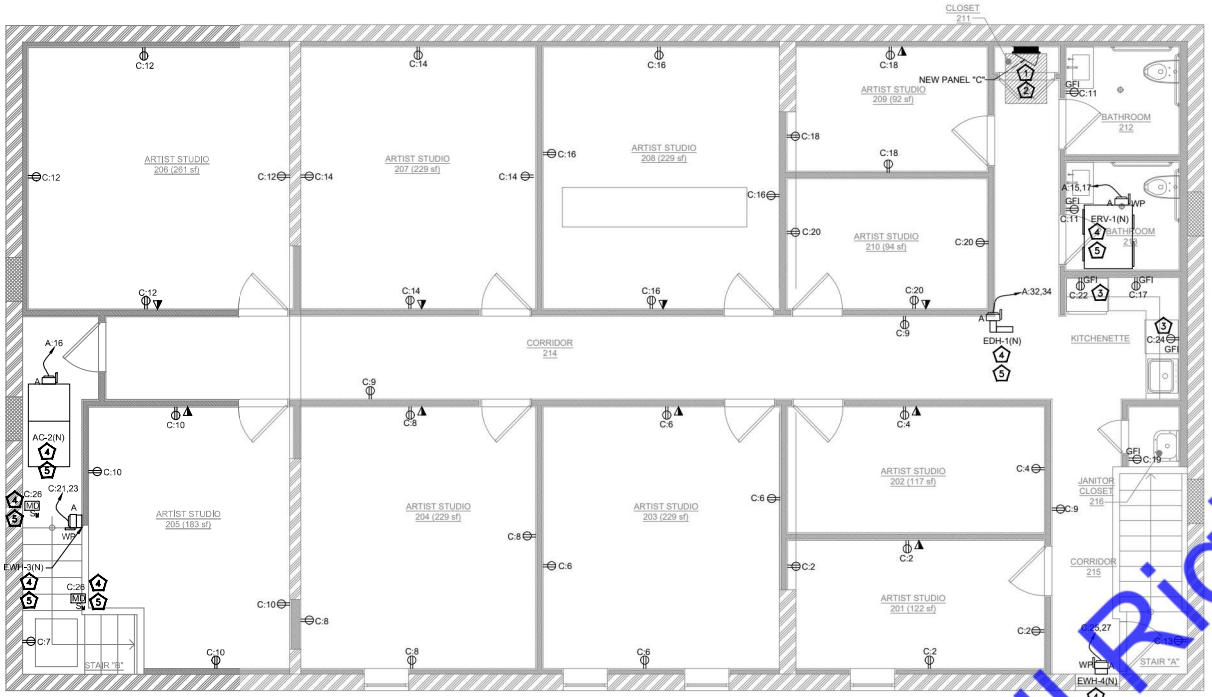
A. GENERAL USE CABLING SHALL BE OF #12 AWG MINIMUM AT 120V FOR CABLE UPTO 80 FEET. FOR CABLE ABOVE 80 FEET USE #10 AWG CABLES. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%.

B. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR EXACT HEIGHT OF OUTLETS.

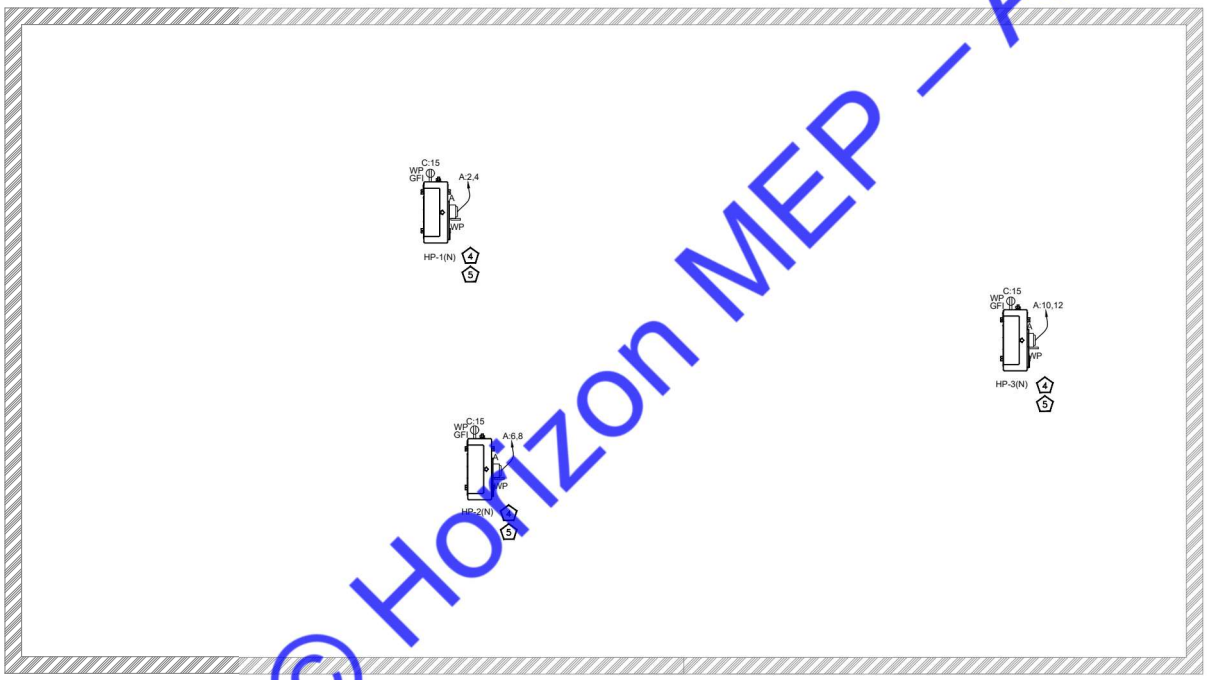
C. E.C SHALL VERIFY ANY THIRD PARTY INSPECTION REQUIRED BY THE LOCAL JURISDICTION PRIOR TO BIDDING THIS PROJECT.

D. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT U.N.O BY AHJ.

E. E.C TO COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT SENSOR AND THERMOSTAT LOCATION.



1 SECOND FLOOR POWER PLAN
1/4"=1'-0"



2 ROOF POWER PLAN
1/4"=1'-0"

ELECTRICAL LIGHTING PLAN KEY NOTES:

1. NEW 100A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "C". E.C SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
2. E.C. SHALL VERIFY/PERFORM THE INSTALLATION OF ELECTRICAL PANELS IN COMPLIANCE WITH NEC ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONNECTION TYPE AND POWER REQUIREMENT WITH EQUIPMENT MANUFACTURER.BASE BID ACCORDINGLY.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION OF THE MECHANICAL UNITS IN THE FIELD.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNIT IS FIELD PROVIDE CIRCUIT AND CONTROL AS REQUIRED.

ELECTRICAL FLOOR POWER PLAN GENERAL NOTES:

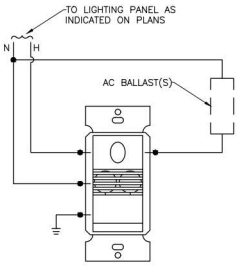
A. GENERAL USE CABLING SHALL BE OF #12 AWG MINIMUM AT 120V FOR CABLE UPTO 80 FEET. FOR CABLE ABOVE 80 FEET USE #10 AWG CABLES. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%.

B. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR EXACT HEIGHT OF OUTLETS.

C. E.C SHALL VERIFY ANY THIRD PARTY INSPECTION REQUIRED BY THE LOCAL JURISDICTION PRIOR TO BIDDING THIS PROJECT.

D. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT U.N.O BY AHJ.

E. E.C TO COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT SENSOR AND THERMOSTAT LOCATION.



OCCUPANCY SENSOR SWITCH WIRING DIAGRAM
SCALE: N.T.S.

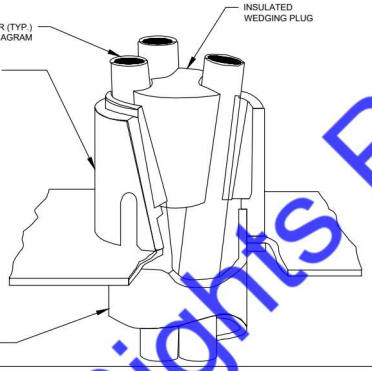
NOTES:

1. ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
2. OCCUPANCY/VACANCY SENSOR SHALL BE "SENSOR SWITCH" WSX–PDT–SA–WH OR APPROVED EQUAL. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT.

6 E–201 OCCUPANCY SENSOR SWITCH DETAIL
N.T.S

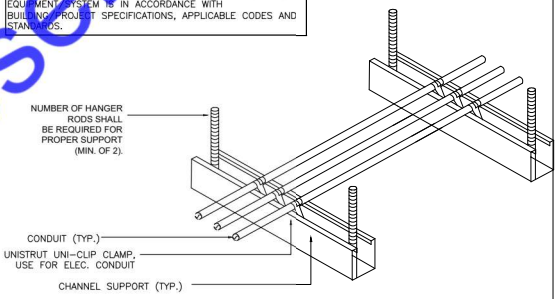
NOTES:

1. ALL CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 300.19 OF NEC. CABLE SUPPORTS SHALL BE LOCATED AT THE INTERVALS REQUIRED BY THE NEC.
2. CABLE SUPPORT SYSTEM SHALL BE AS MANUFACTURED BY O-Z GEDNEY WITH pOZi-GRIP "S-STYLE" WEDGING PLUG OR APPROVED EQUAL.
3. FOR THREADLESS CONDUIT (RIGID, IMC OR EMT), ATTACH CONDUIT BODY TO MALE THREADS OF A SET SCREW OR COMPRESSION CONNECT, AS PERMITTED BY SPECIFICATIONS.
4. PROVIDE PULL BOX AT EACH LOCATION OF CABLE SUPPORTS. PULL BOX SHALL BE SIZED AS PER CODE TO ACCOMMODATE ALL CONDUITS.



4 E–201 VERTICAL CABLE SUPPORT DETAIL
N.T.S

NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



NOTES:

1. ALL CONDUIT MAY BE COMBINED ON SAME SUPPORT CHANNEL WHERE PRACTICAL.
2. SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING, CONDUIT, ETC. TO BE SUPPORTED IS COORDINATED.
3. SUPPORT CHANNEL SPACING SHALL BE NO MORE THAN 10'–0".
4. UNISTRUT AND CONDUIT INSTALLATION MAY BE REVERSED.

2 E–201 CONDUIT SUPPORT DETAIL
N.T.S

AUTOMATIC MODE OPERATION:

1. WHEN SENSOR ACTIVATES, LOAD TURNS ON.
2. LOAD TURNS OFF, WHEN SENSOR TIMES OUT.
3. SWITCHES CAN BE USED TO TURN LOAD OFF.

RECOMMENDED WIRE:

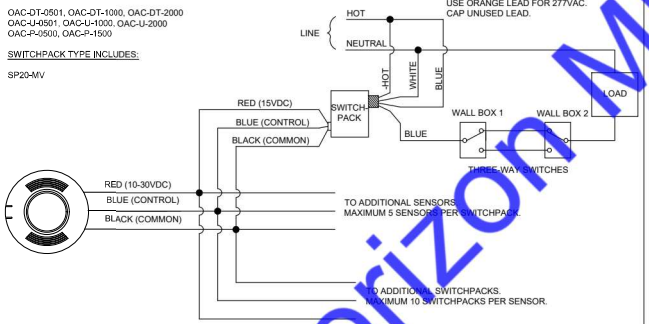
18-3 AWG STRANDED WIRE SHIELDED OR NON-SHIELDED

SENSOR TYPES INCLUDE:

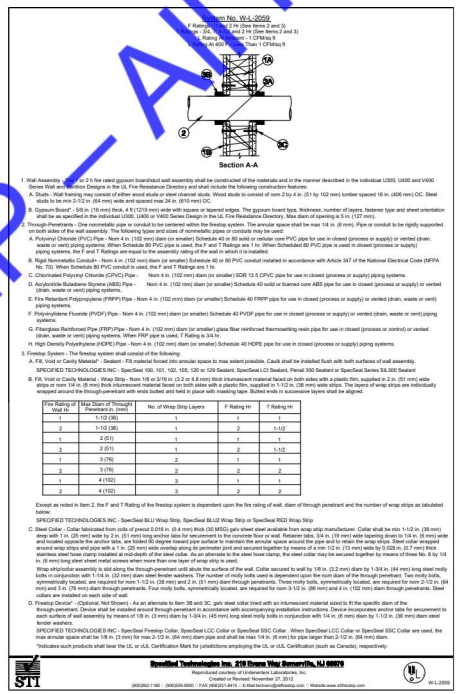
OAC-DT-0501, OAC-DT-1000, OAC-DT-2000
OAC-U-0501, OAC-U-1000, OAC-U-2000
OAC-P-0500, OAC-P-1500

SWITCHPACK TYPE INCLUDES:

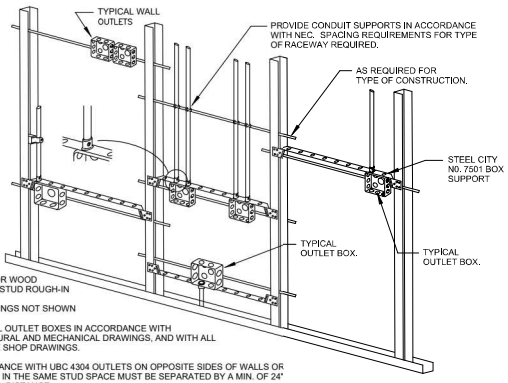
SP20-MV



5 E–201 WIRING DIAGRAM–LOW VOLTAGE CEILING SENSOR OCCUPANCY –AUTO ON/OFF WITH LINE VOLTAGE OVERRIDE TO OFF THREE–WAY SWITCHING
N.T.S



3 E–201 FIRE STOP DETAIL
N.T.S



NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN
2. PLASTER RINGS NOT SHOWN
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH UBC 4304 OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 24" HORIZONTAL DISTANCE.

1 E–201 DETAIL TYPICAL ROUGH–IN REQUIREMENTS
N.T.S

MANUAL MODE OPERATION:

1. PUSHBUTTON PRESS IS REQUIRED TO TURN LOAD ON.

2. LOAD TURNS OFF WHEN SENSOR TIMES OUT OR BY PRESSING PUSH BUTTON.

3. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, LOAD WILL NOT TURN ON.

AUTOMATIC MODE OPERATION:

1. WHEN SENSOR ACTIVATES LOAD TURNS ON.

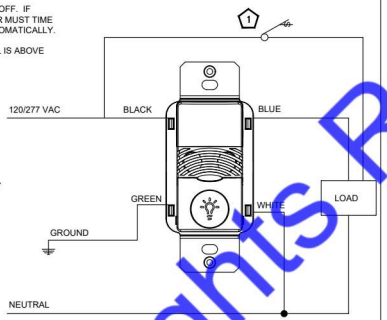
2. PUSHBUTTON CAN BE USED TO TURN LOAD ON OR OFF. IF PUSHBUTTON IS USED TO TURN LOAD OFF, SENSOR MUST TIME OUT FIRST, BEFORE LOAD CAN TURN BACK ON AUTOMATICALLY.

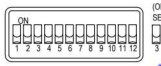
3. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, LOAD WILL NOT TURN ON.

SENSOR TYPES INCLUDE:

ONW-D-1001-MV-N

(1) PROVIDE SENSING CONDUCTOR TAPPED AHEAD OF ANY SWITCHES WHERE SWITCH SERVES EMERGENCY FIXTURES.





4 E-202 N.T.S CONNECTION) OCCUPANCY/VACANCY-SINGLE LEVEL WIRING DIAGRAM-LOW VOLTAGE WALL SWITCH SENSOR(NEUTRAL

AUTOMATIC MODE OPERATION:

1. WHEN SENSOR ACTIVATES, LOAD TURNS ON.

2. LOAD TURNS OFF WHEN SENSOR TIMES OUT.

RECOMMENDED WIRE

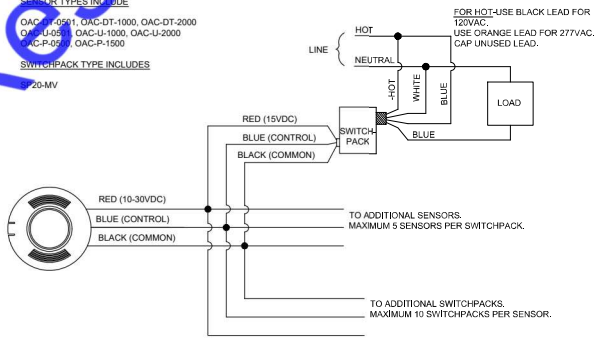
18-3 AWG STRANDED WIRE SHIELDED OR NON-SHIELDED

SENSOR TYPES INCLUDE

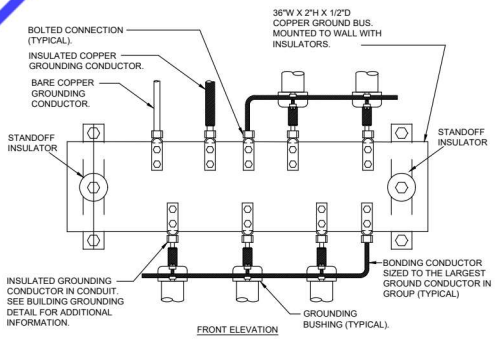
OAC-DT-0501, OAC-DT-1000, OAC-DT-2000
OAC-U-0501, OAC-U-1000, OAC-U-2000
OAC-P-0501, OAC-P-1500

SWITCHPACK TYPE INCLUDES

SP-20-MV



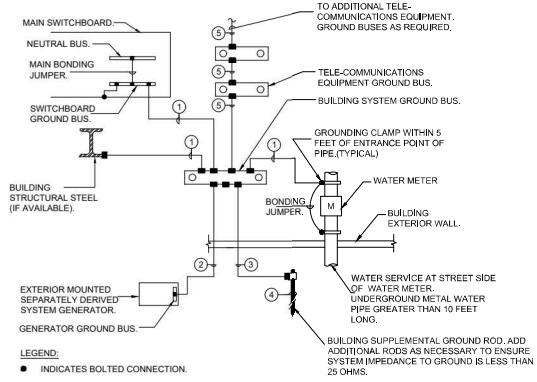
2 E-202 N.T.S OCCUPANCY - AUTO ON/OFF. WIRING DIAGRAM - LOW VOLTAGE CEILING SENSOR



NOTES:

1. REFER TO BUILDING GROUNDING ELECTRODE SYSTEM DETAIL FOR EXACT CONFIGURATION.

3 E-202 N.T.S BUILDING ELECTRICAL SYSTEMS GROUND BUS



LEGEND:

- ● INDICATES BOLTED CONNECTION.
- ■ INDICATES EXOTHERMIC WELD CONNECTION, COMPATIBLE WITH MATERIALS BEING JOINED.

(1) INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR IN CONDUIT SIZED AS PER NEC ARTICLE 250.66.

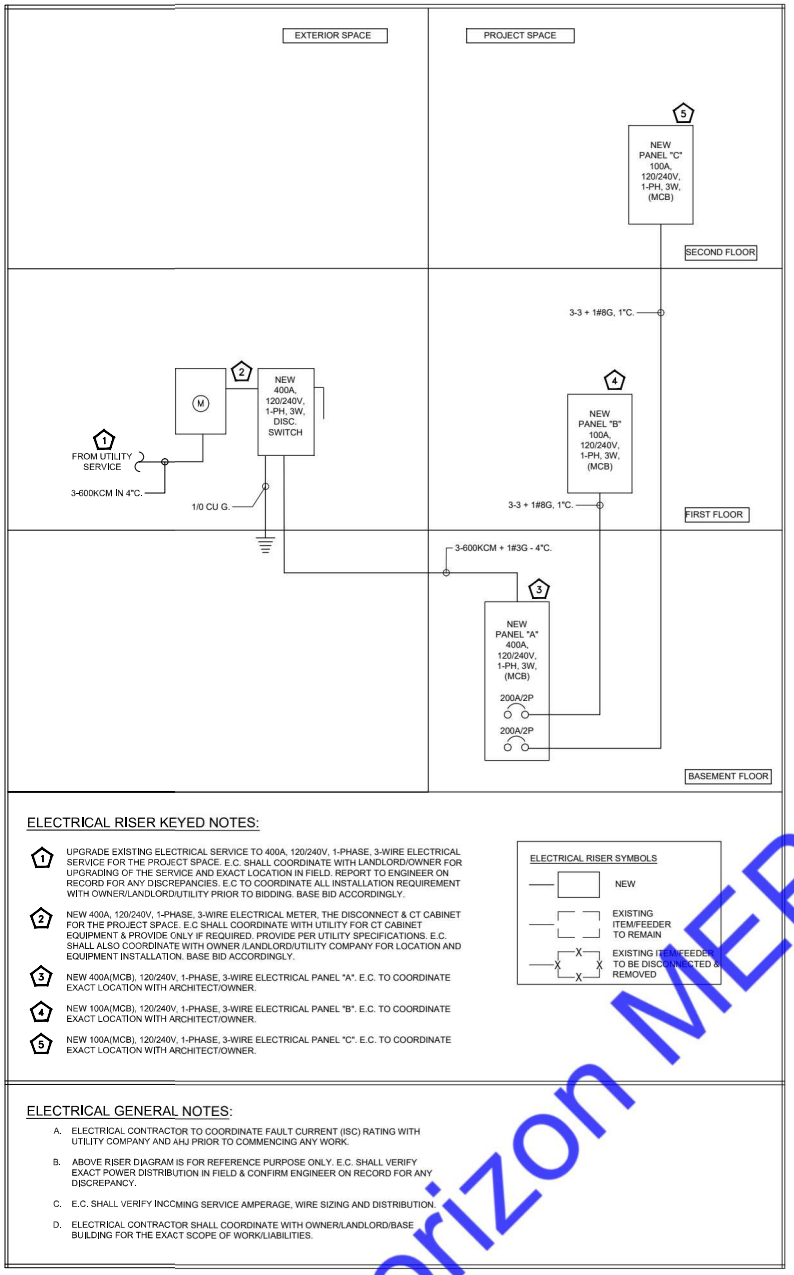
(2) INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR ENCASED IN CONCRETE SIZED AS PER NEC ARTICLE 250.66

(3) #2 IN 3/4"C AWG BARE COPPER GROUND CONDUCTOR.

(4) 3/4" x 10'-0" LONG COPPER-CLAD GROUND ROD DRIVEN WITH TOP 12" BELOW GRADE.

(5) #4/0 IN 1"C INSULATED COPPER GROUND CONDUCTOR IN 30mm CONDUIT.

1 E-202 N.T.S BUILDING GROUNDING ELECTRODE SYSTEM



ELECTRICAL RISER KEYED NOTES:

1. UPGRADE EXISTING ELECTRICAL SERVICE TO 400A, 120/240V, 1-PHASE, 3-WIRE ELECTRICAL SERVICE FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR UPGRADING OF THE SERVICE AND EXACT LOCATION IN FIELD. REPORT TO ENGINEER ON RECORD FOR ANY DISCREPANCIES. E.C TO COORDINATE ALL INSTALLATION REQUIREMENT WITH OWNER/LANDLORD/UTILITY PRIOR TO BIDDING. BASE BID ACCORDINGLY.
2. NEW 400A, 120/240V, 1-PHASE, 3-WIRE ELECTRICAL METER, THE DISCONNECT & CT CABINET FOR THE PROJECT SPACE. E.C SHALL COORDINATE WITH UTILITY FOR CT CABINET EQUIPMENT & PROVIDE ONLY IF REQUIRED. PROVIDE PER UTILITY SPECIFICATIONS. E.C. SHALL ALSO COORDINATE WITH OWNER /LANDLORD/UTILITY COMPANY FOR LOCATION AND EQUIPMENT INSTALLATION. BASE BID ACCORDINGLY.
3. NEW 400A(MCB), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "A". E.C. TO COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
4. NEW 100A(MCB), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "B". E.C. TO COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
5. NEW 100A(MCB), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "C". E.C. TO COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.

ELECTRICAL RISER SYMBOLS

- NEW
- EXISTING ITEM/FEEDER TO REMAIN
- EXISTING ITEM/FEEDER TO BE DISCONNECTED & REMOVED

ELECTRICAL GENERAL NOTES:

A. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (ISC) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.

B. ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD & CONFIRM ENGINEER ON RECORD FOR ANY DISCREPANCY.

C. E.C. SHALL VERIFY INCCMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER/LANDLORD/BASE BUILDING FOR THE EXACT SCOPE OF WORK/LIABILITIES.

2 ELECTRICAL RISER DIAGRAM N.T.S

PANEL: A(N) — MOUNTING: REFER TO EL. POWER PLAN (EL. SHEET E

120/240 VOLTS, 1 PHASE, 3 WIRE — PANEL LOCATION: REFER TO EL. POWER PLAN (EL. SHEET E

MAIN CB 400A — MLO: NA — BUS: 400A MIN, — FED FROM: REFER TO EL. RISER DIG. (EL. SHEET E-9)

NOTE: L : LIGHTING, R : RECEPTACLES, H : HVAC LOAD, M : MOTOR LOAD, E : EQUIPMENTS, O : OTHER/MISC. (TYPICAL)

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	PER PHASE (KVA) B	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	LIGHTING-BASEMENT	L	0.79	2#12, #12G, 3/4"C	4.39		2#8 #8G, 3/4"C	3.60	H	HP-1(N)	35/2P	2
3	30/2P	ACCU-1(N)	H	2.18	2#10 #10G, 3/4"C		5.78		3.60	H			4
5			H	2.18		5.78		2#8 #8G, 3/4"C	3.60	H	HP-2(N)	35/2P	6
7	30/2P	ACCU-2(N)	H	2.18	2#10 #10G, 3/4"C		5.78		3.60	H			8
9			H	2.18		5.78		2#8 #8G, 3/4"C	3.60	H	HP-3(N)	35/2P	10
11	50/2P	ACCU-3(N)	H	3.52	2#8, 1#10G, 3/4"C.		7.12		3.60	H			12
13			H	3.52		4.57		2#12, #12G, 3/4"C	1.06	H	AC-1(N)	15	14
15	15/2P	ERV-1(E)	H	1.49	2#12, #12G, 3/4"C		2.54	2#12, #12G, 3/4"C	1.06	H	AC-2(N)	15	16
17			H	1.49		3.24		2#12, #12G, 3/4"C	1.75	H	AC-3(N)	20	18
19	100/2P	PANEL B(N)	O	10.03	3#3, 1#8G, 1"C.		1.49	3#3, 1#8G, 1"C.	8.46	O	PANEL C(N)	100/2P	20
21			O	10.03		18.49			8.46	O			22
23	20	RECEPTACLE- STAIR LOBBY	R	0.18	2#12, #12G, 3/4"C		0.72	2#12, #12G, 3/4"C	0.08	M	RCP	20	24
25	20	RECEPTACLE- ART STORAGE	R	0.18	2#12, #12G, 3/4"C	0.4		2#12, #12G, 3/4"C	0.25	M	MOTORISED DAMPERS	20	26
27	20	RECEPTACLE- OPEN STORAGE	R	0.18	2#12, #12G, 3/4"C		0.68	2#12, #12G, 3/4"C	0.50	H	EWH-1(N)	20/2P	28
29	20	RECEPTACLE- MECHANICAL ROOM	R	0.18	2#12, #12G, 3/4"C	0.68			0.50	H			30
31	20	RECEPTACLE - EXTERIOR	R	0.72	2#12, #12G, 3/4"C		1.72	2#12, #12G, 3/4"C	2.00	H	EDH-1(N)	20/2P	32
33	30/2P	WATER HEATER	H	2.25	2#10 #10G, 3/4"C	4.25			2.00	H			34
35			H	2.25			2.75	2#12, #12G, 3/4"C	0.50	H	EWH-2(N)	20/2P	36
37	20	SPARE				0.50			0.50	H			38
39		SPACE					0.00				SPACE		40
41		SPACE				0.00					SPACE		42
TOTAL CONNECTED LOAD (KVA)						48.12	46.13						

LOAD CLASSIFICATION		CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
TOTAL LIGHTING	L	7.9	125%	0.99
TOTAL RECEPTACLE	R	11.5	100%	1.44
TOTAL HVAC	H	54.71	100%	54.71
TOTAL MOTOR	M	3.33	100%	0.33
TOTAL KITCHEN/EQUIPMENTS	E	0.00	100%	0.00
TOTAL OTHER/MISCILLANEOUS	O	36.99	100%	36.99

PANEL TOTAL LOAD		
TOTAL CONNECTED LOAD	94.26	KVA
TOTAL DEMAND LOAD	94.45	KVA
TOTAL CONNECTED CURRENT	392.73	AMP
TOTAL DEMAND CURRENT	393.55	AMP
SYSTEM VOLTAGE	120/240V	

PANEL: B(N) — MOUNTING: REFER TO EL. POWER PLAN (EL. SHEET E

120/240 VOLTS, 1 PHASE, 3 WIRE — PANEL LOCATION: REFER TO EL. POWER PLAN (EL. SHEET E

MAIN CB 100A — MLO: NA — BUS: 125A MIN, — FED FROM: REFER TO EL. RISER DIG. (EL. SHEET E-9)

NOTE: L : LIGHTING, R : RECEPTACLES, H : HVAC LOAD, M : MOTOR LOAD, E : EQUIPMENTS, O : OTHER/MISC. (TYPICAL)

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	PER PHASE (KVA) B	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	LIGHTING- ART GALLERY 111	L	0.70	2#12, #12G, 3/4"C	1.78		2#12, #12G, 3/4"C	1.08	R	RECEPTACLE- ART GALLERY 111	20	2
3	20	LIGHTING- ART GALLERY 110	L	1.44	2#12, #12G, 3/4"C		2.16	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ART GALLERY 110	20	4
5	20	LIGHTING- ART GALLERY 103 & CORRIDOR	L	0.70	2#12, #12G, 3/4"C	1.42		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ART GALLERY 110	20	6
7	20	LIGHTING- STORAGE 107, FOOD PREP 105, RESTROOMS, LOOBY 109, EF-1 & 2	L	0.65	2#12, #12G, 3/4"C		1.37	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ART GALLERY 103	20	8
9	20	LIGHTING- STORAGE 112, LOBBY 113	L	0.16	2#12, #12G, 3/4"C	0.88		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- RECEPTION	20	10
11	20	LIGHTING- EXTERIOR	L	0.26	2#12, #12G, 3/4"C		0.62	2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- RESTROOMS	20	12
13	20	TIMECLOCK	L	1.00	2#12, #12G, 3/4"C	1.36		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- STAIR A & CORRIDOR	20	14
15	20	BUILDING SIGN	L	1.00	2#12, #12G, 3/4"C		1.10	2#12, #12G, 3/4"C	0.10	E	GAS FIRED RANGE	20	16
17	20	RECEPTACLE - STORAGE 112	R	0.18	2#12, #12G, 3/4"C	1.38		2#12, #12G, 3/4"C	1.20	E	REFRIGERATOR	20	18
19	20	RECEPTACLE - STORAGE 104	R	0.18	2#12, #12G, 3/4"C		1.38	2#12, #12G, 3/4"C	1.20	E	DISHWASHER	20	20
21		RECEPTACLE - FOOD PREP 105	R	0.36	2#12, #12G, 3/4"C	1.86		2#12, #12G, 3/4"C	1.50	E	WASHER	20	22
23	20	SPARE					3.60	2#8, 1#10G, 3/4"C.	3.60	E	DRYER	40/2P	24
25	20	SPARE				3.60			3.60	E			26
27	20	SPARE					0.00				SPARE	20	28
29	20	SPARE				0.00					SPARE	20	30
TOTAL CONNECTED LOAD (KVA)						12.28	10.23						

PANEL: C(N) — MOUNTING: REFER TO EL. POWER PLAN (EL. SHEET E

120/240 VOLTS, 1 PHASE, 3 WIRE — PANEL LOCATION: REFER TO EL. POWER PLAN (EL. SHEET E

MAIN CB 100A — MLO: NA — BUS: 125A MIN, — FED FROM: REFER TO EL. RISER DIG. (EL. SHEET E-9)

NOTE: L : LIGHTING, R : RECEPTACLES, H : HVAC LOAD, M : MOTOR LOAD, E : EQUIPMENTS, O : OTHER/MISC. (TYPICAL)

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	PER PHASE (KVA) B	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	LIGHTING- ARTIST STUDIO 201-205	L	1.20	2#12, #12G, 3/4"C	1.92		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 201	15	2
3	20	LIGHTING- ARTIST STUDIO 206-210	L	1.20	2#12, #12G, 3/4"C		1.92	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 202	15	4
5	20	LIGHTING- CORRIDOR 214 & 215, RESTROOMS, EF-3 & 4	L	0.60	2#12, #12G, 3/4"C	1.32		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 203	15	6
7	20	RECEPTACLE- STAIR B	R	0.18	2#12, #12G, 3/4"C		0.90	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 204	15	8
9	20	RECEPTACLE- CORRIDOR	R	0.54	2#12, #12G, 3/4"C	1.26		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 205	15	10
11	20	RECEPTACLE- RESTROOMS	R	0.36	2#12, #12G, 3/4"C		1.08	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 206	15	12
13	20	RECEPTACLE- STAIR A	R	0.18	2#12, #12G, 3/4"C	0.90		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 207	15	14
15	20	RECEPTACLE - ROOF	R	0.54	2#12, #12G, 3/4"C		1.26	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 208	15	16
17	20	RECEPTACLE- KITCHNETTE	R	0.18	2#12, #12G, 3/4"C	0.90		2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 209	20	18
19	20	RECEPATCLE - JANITOR CLOSET	R	0.18	2#12, #12G, 3/4"C		0.90	2#12, #12G, 3/4"C	0.72	R	RECEPTACLE- ARTIST STUDIO 210	15	20
21	20/2P	EWH-3(N)	H	0.50	2#12, #12G, 3/4"C	1.70		2#12, #12G, 3/4"C	1.20	E	REFRIGERATOR	15	22
23			H	0.50			1.70	2#12, #12G, 3/4"C	1.20	E	DISHWASHER	20	24
25	20/2P	EWH-4(N)	H	0.50	2#12, #12G, 3/4"C	0.75		2#12, #12G, 3/4"C	0.25	M	MOTORISED DAMPERS	20	26
27			H	0.50			0.50				SPARE	20	28
29	20	SPARE				0.00					SPARE	20	30
TOTAL CONNECTED LOAD (KVA)						8.75	8.26						

LOAD SUMMERY			
LOAD CLASSIFICATION	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
TOTAL LIGHTING	9.70	125%	12.13
TOTAL RECEPTACLE	16.20	100%	16.20
TOTAL HVAC	45.03	100%	45.03
LARGEST MOTOR LOAD	6.00	125%	7.50
TOTAL KITCHEN/EQUIPMENTS	13.60	100%	13.60
TOTAL OTHER/MISCILLANEOUS	0.00	100%	0.00
TOTAL CONNECTED LOAD	90.53	KVA	
TOTAL DEMAND LOAD	94.46	KVA	
TOTAL CONNECTED CURRENT	377.21	AMP	
TOTAL DEMAND CURRENT	393.56	AMP	

1 ELECTRICAL PANEL SCHEDULE & LOAD SUMMERY N.T.S

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: STUDIO LOFTS LLC
Project Type: Alteration

Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail	6156	0.84	5171
		Total Allowed Watts =	5171

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Retail (6156 sq.ft.)				
LED: A: Other:	1	75	19	1432
LED: B1: Other: Exemption:Lighting Sales or Educational Demonstration Systems	1	74	30	Exempt
LED: L4: Other:	1	48	41	1958
LED: L6: Other:	1	15	61	918
LED: W: Other:	1	4	15	60
			Total Proposed Watts =	4369

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: STUDIO LOFTS LLC
Project Type: Alteration
Exterior Lighting Zone 3 (Other (LZ3))

Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	50 ft2	0.4	Yes	20
			Total Tradable Watts (a) =	20
			Total Allowed Watts =	20
			Total Allowed Supplemental Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entry canopy (50 ft2): Tradable Wattage				
LED: X: Other:	1	4	30	120
			Total Tradable Proposed Watts =	120

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date