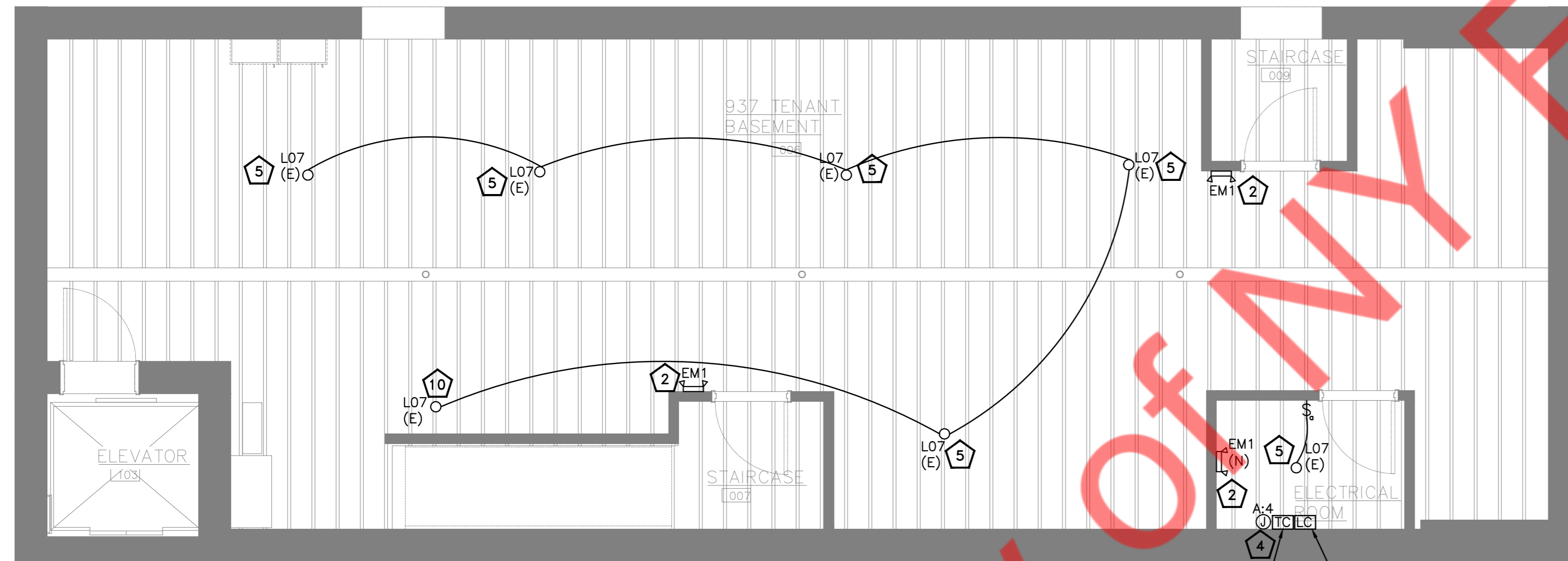


**1 ELECTRICAL LIGHTING PLAN—FIRST FLOOR**  
 E2.0 SCALE: 1/4" = 1'-0"



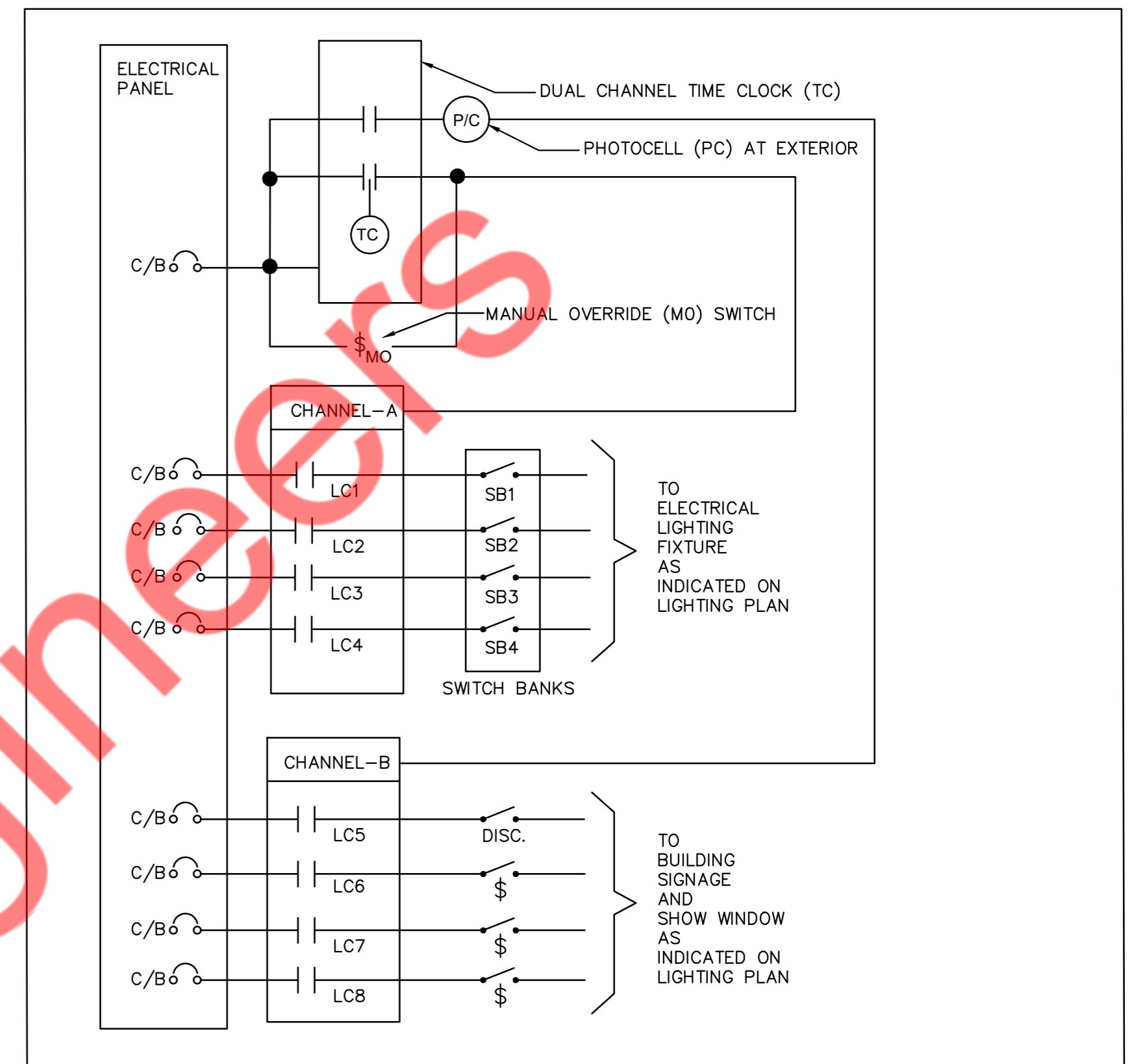
**2 ELECTRICAL LIGHTING PLAN—BASEMENT FLOOR**  
 E2.0 SCALE: 1/4" = 1'-0"

**LIGHTING PLAN KEYED NOTES:**

1. WALL MOUNTED SWITCH WITH MOTION DETECTOR.
2. ALL EMERGENCY AND EXIT SIGNS SHALL BE CONNECTED TO THE CIRCUIT A#2.
3. COORDINATE WITH THE W.I.C. VENDOR FOR THE LIGHTING FIXTURES, SWITCHES, AND ELECTRICAL CONNECTION REQUIREMENTS. PROVIDE JUNCTION BOX, CIRCUIT, AND SWITCH FOR WALK-IN COOLER AS REQUIRED.
4. TIME CLOCK FOR LIGHTING CONTROL. COORDINATE EXACT LOCATION IN FIELD. REFER LIGHTING CONTACTOR TYPICAL DETAIL.
5. E.C. TO VERIFY OPERABLE CONDITIONS OF EXISTING LIGHTING FIXTURES IN THE FIELD. REPLACE IF FOUND INOPERABLE.
6. E.C. SHALL COORDINATE EXACT LOCATION OF THE SWITCH BANK IN THE FIELD.
7. MANUAL OVERHEAD SWITCH FOR LIGHTING CONTROL. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
8. DISCONNECT SWITCH AS PER NEC FOR CONNECTION TO BUILDING SIGNAGE E.C. SHALL VERIFY THE LOCATION AND CONNECT TO SIGN PER MANUFACTURER'S INSTRUCTION.
9. E.C. SHALL VERIFY AVAILABILITY OF LIGHT FIXTURE FOR TOILET COORDINATE WITH ARCHITECT/ OWNER PROVIDE CIRCUIT AND CONTROLS AS INDICATED.
10. E.C. SHALL VERIFY OPERABLE CONDITION OF EXISTING CIRCUIT FOR BASEMENT EXISTING LIGHTING ALONG THEIR EXISTING CONTROL IN THE FIELD. PROVIDE NEW CIRCUIT AND CONTROL AS SHOWN, IF EXISTING INOPERABLE.

**LIGHTING PLAN GENERAL NOTES:**

- A. ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH CODE EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
- B. E.C. TO VERIFY REQUIREMENT OF THE NO. OF SWITCHES AND CONTROL PER PLAN AND PROVIDE ACCORDINGLY.
- C. MINIMUM #12 AWG COPPER WIRING SHALL BE USED FOR THE LIGHTING CIRCUIT.
- D. THE NEUTRAL AND GROUNDING ARE NOT SHOWN ON THE DRAWING. E.C. TO PROVIDE AS REQUIRED.
- E. EMERGENCY LIGHT SHALL TURN ON DURING POWER FAILURE WHEREAS ALL EXIT SIGNS SHALL BE PERMANENTLY ON.



**LIGHTING CONTACTOR DEATILS (TYPICAL)**

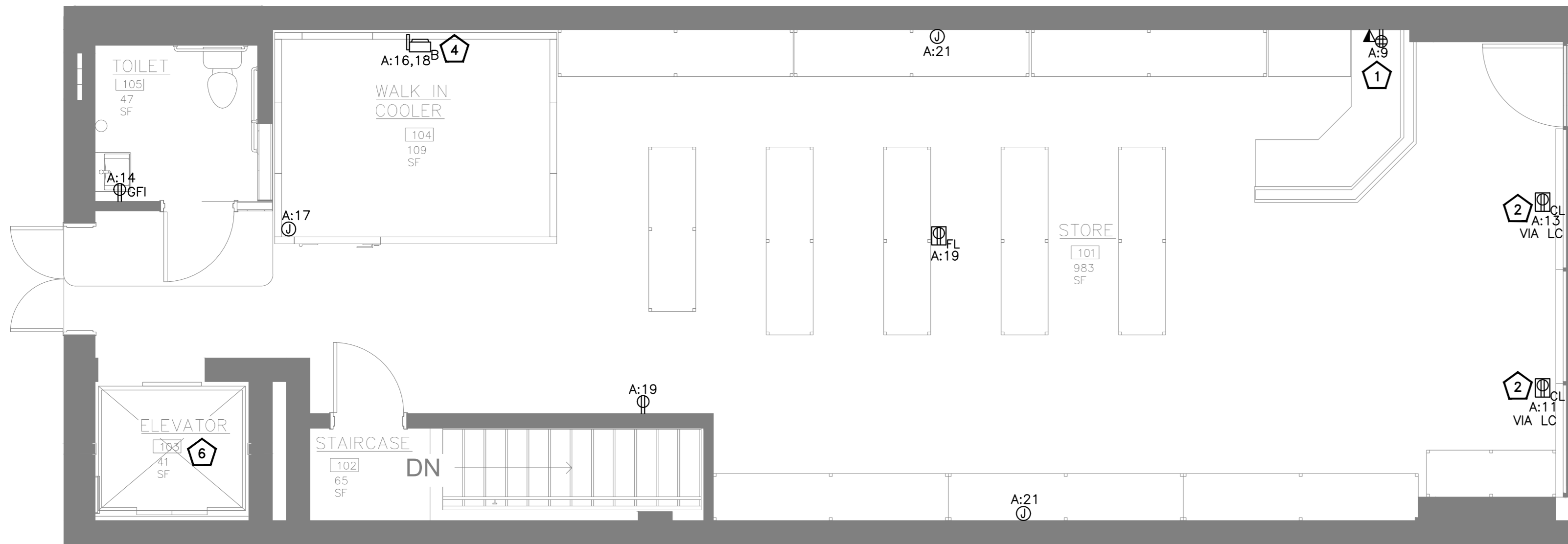
**LIGHT FIXTURE SCHEDULE**

TAG	DESCRIPTION	MANUFACTURER	MODEL	TYPE	WATTAGE	COMMENTS
L01	TRACK LIGHTING	JUNO	R605L-35K-80CRI-WFL-BL	LED	10.5	
L02	4FT LINEAR PENDANT	MARK ARCHITECTURAL	S4LI-LLP-4FT-MSL4-135K-BLK	LED	39.12	NIGHT LIGHT AS REQ.
L03	8FT LINEAR PENDANT	MARK ARCHITECTURAL	S4LI-LLP-8FT-MSL4-135K-BLK	LED	78.24	NIGHT LIGHT AS REQ.
L04	DUKE PENDANT	EUREKA	4176	LED	13	DUKE
L05	TRACK LIGHTING-2 LIGHTS	TBD	TBD	LED	225	-
L06	RECESSED CAN	TBD	TBD	LED	25	-
L07	BASEMENT LIGHT	TBD	TBD	LED	25	-
EX-1	EXIT	TBD	-	LED	-	-
EM-1	EMERGENCY LIGHT	TBD	-	LED	-	-

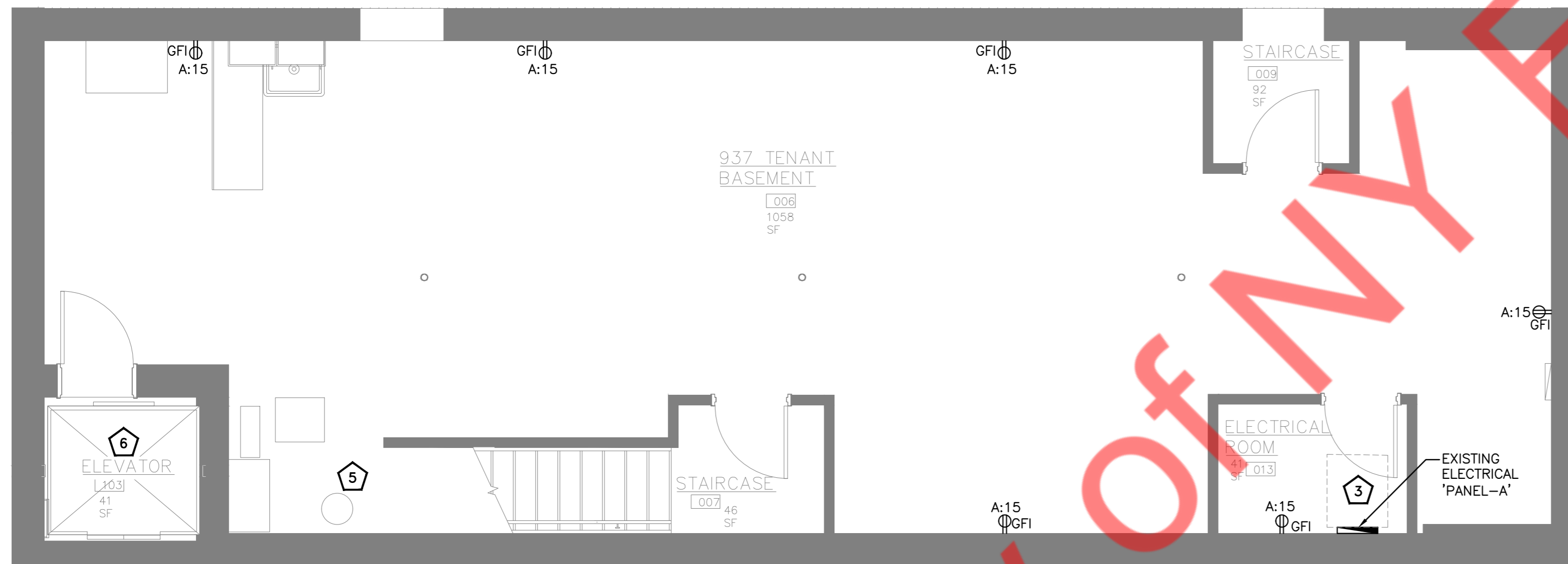
NOTE:  
 ALL (NEW) LIGHTING FIXTURES SHOWN ON THE LIGHTING FIXTURES SCHEDULE ARE SUBJECT TO THE ARCHITECTS APPROVAL. E.C. SHALL COORDINATE MAKE, MODEL, FINISHES, AND OTHER CRITICAL PARAMETERS WITH THE ARCHITECT BEFORE PURCHASING.  
 ALL LIGHTING FIXTURES SHALL BE LED-TYPE OPERABLE AT 120V UNLESS OTHERWISE NOTED.  
 WATTS PER FACE FOR EXIT SIGNS SHALL NOT EXCEED 5 WATTS.

**LIGHTING FIXTURE SCHEDULE NOTES:**

- A. THE ADDITIONAL ACCESSORIES (VIZ. DRIVERS AND CURRENT LIMITERS) REQUIRED FOR THE PROPER WORKING OF THE LIGHTING FIXTURES MIGHT NOT BE PROVIDED BY THE VENDOR. E.C. SHALL PURCHASE IT SEPARATELY.
- B. ALL LIGHTING FIXTURES ARE RATED FOR 120V UNLESS OTHERWISE NOTED.
- C. ALL EMERGENCY LIGHTING & NIGHT LIGHT FIXTURES AND EXIT SIGNS SHALL HAVE A MINIMUM OF 90 MINUTES OF BATTERY BACKUP OR AS REQUIRED BY AHJ.



**1** ELECTRICAL POWER PLAN—MAIN FLOOR  
E2.1 SCALE: 1/4" = 1'-0"



**1** ELECTRICAL POWER PLAN—BASEMENT FLOOR  
E2.1 SCALE: 1/4" = 1'-0"

**POWER PLAN GENERAL NOTES:**

- EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. E.C. TO COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
- REVIEW AND COORDINATE WITH ALL TRADES CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR EQUIPMENT WITH ELECTRICAL CONNECTIONS. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
- MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE 12-AWG. FOR 120V BRANCH CIRCUITS WITH HOME-RUN OVER 100 LINEAR FEET, A MINIMUM WIRE SIZE OF 10-AWG SHALL BE PROVIDED FROM FIRST JUNCTION/OUTLET BOX TO BRANCH CIRCUIT PANEL BOARD. FOR 120V BRANCH CIRCUITS WITH HOME RUN OVER 150 LINEAR FEET, A MINIMUM OF 8-AWG SHALL BE PROVIDED FROM FIRST JUNCTION/OUTLET BOX TO BRANCH CIRCUIT PANEL BOARD.
- ALL WIRING SHALL BE IDENTIFIED BY PANEL BOARD AND CIRCUIT NUMBERS IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS ETC.
- ALL 120V, 15A AND 20A RECEPTACLES IN KITCHEN AREA SHALL BE "GFI" IN ACCORDANCE WITH NEC ARTICLE 210.8(B). GFI RECEPTACLE TO BE MOUNTED AT ACCESSIBLE LOCATION. ELSE PROVIDE GFI RATED BREAKER AT PANEL FOR KITCHEN EQUIPMENT.
- ELECTRICAL CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5 PERCENT VOLTAGE DROP.
- ELECTRICAL RECEPTACLE OUTLETS:  
ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
- REUSE EXISTING DATA AND TELEPHONE SYSTEM. PROVIDE NEW IF NEEDED.

**POWER PLAN KEYED NOTES:**

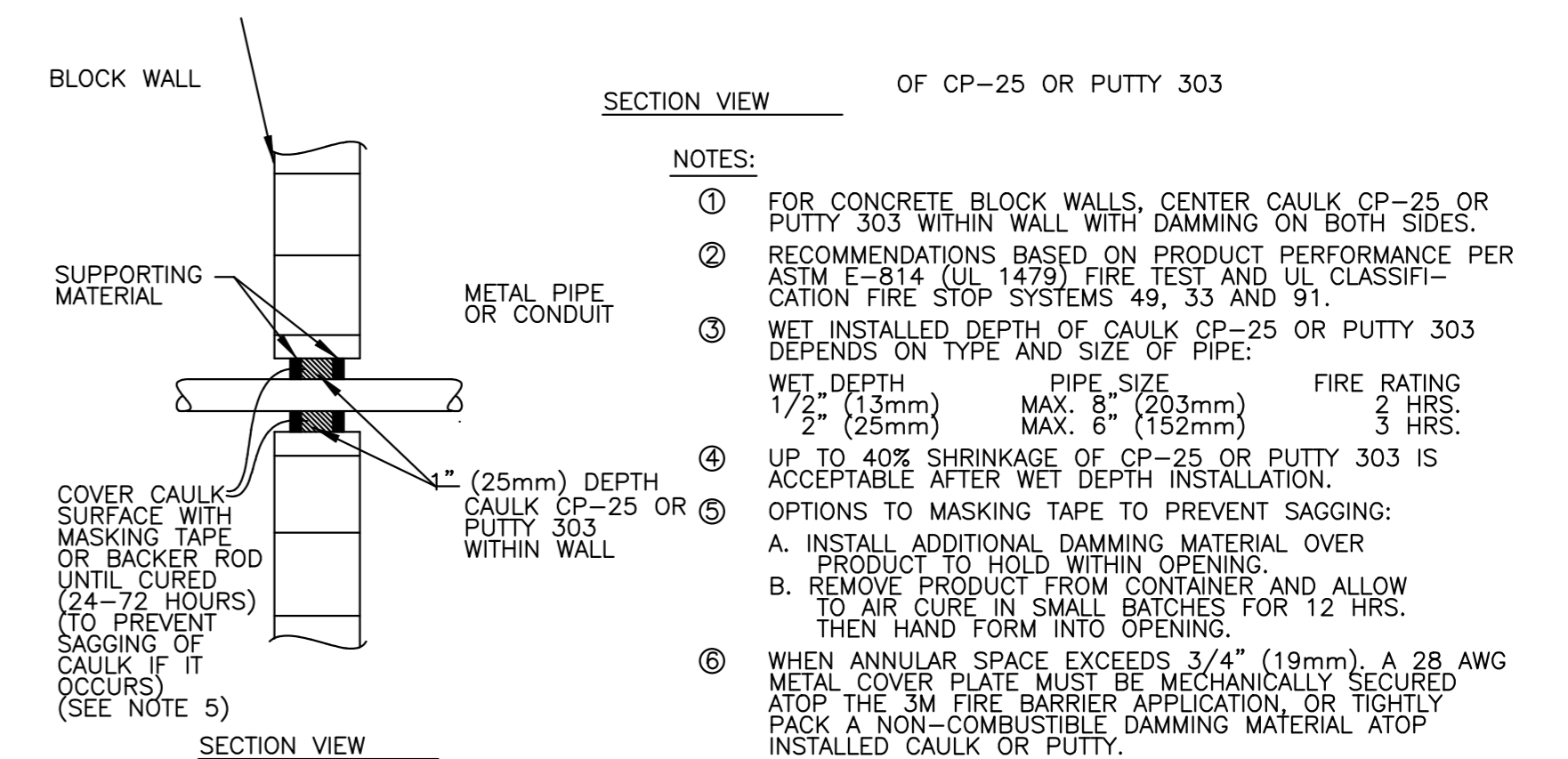
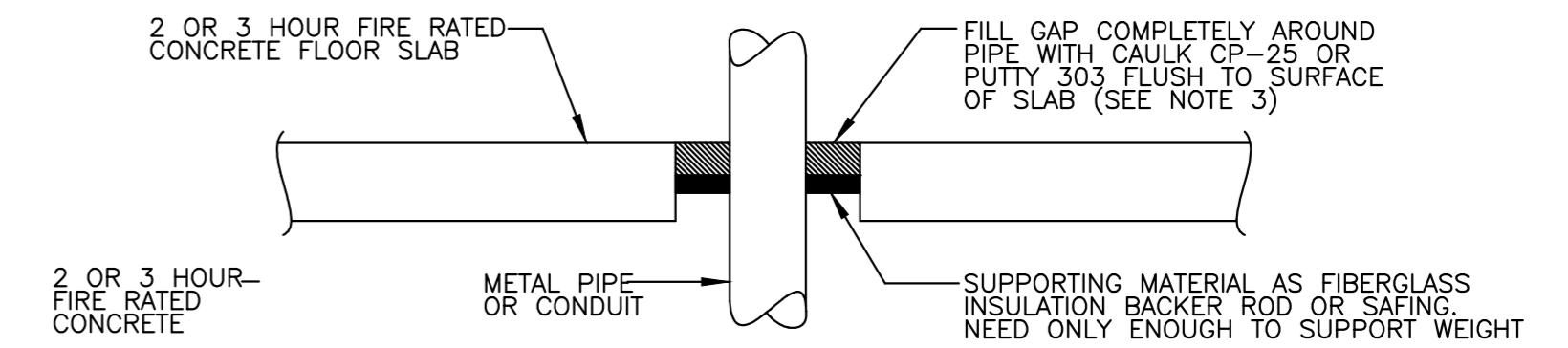
- E.C. SHALL COORDINATE THE POWER REQUIREMENT WITH MANUFACTURER FOR ADDITIONAL CONVENIENCE OUTLET AT STANDARD HEIGHT AND VERIFY EXACT LOCATION WITH ARCHITECT.
- PROVIDE CEILING MOUNTED RECEPTACLE TO BE CONTROLLER VIA TC FOR SHOW WINDOW.
- E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION OF THE PANEL IN THE FIELD. ALSO ENSURE CLEAR WORKING AND DEDICATED SPACE HAVE BEEN PROVIDED PER CODE.
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT POWER REQUIREMENT WITH WALK IN COOLER MANUFACTURER AND MAKE POWER PROVISION ACCORDINGLY. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF THE WALK IN COOLER.
- E.C. SHALL VERIFY THE EXACT LOCATION AND OPERABLE CONDITION OF THE EXISTING MECHANICAL/PLUMBING UNITS IN THE FIELD. PROVIDE NEW CIRCUIT, DISCONNECT/SWITCH IF EXISTING IS INOPERABLE.
- E.C. SHALL VERIFY IN FIELD IF THE ELEVATOR IS BEING FED FROM THE BASE BUILDING ELECTRICAL SERVICE. IF NOT, INFORM E.O.R. OF ANY DISCREPANCY PRIOR TO BID.

**ELECTRICAL EQUIPMENT SCHEDULE**

TAG	DESCRIPTION	QTY	MANUFACTURER	MODEL	WATT	AMP	VOLTAGE	PHASE	CONNECTION
E01	WALK IN COOLER	1	TBD	TBD	7200	30	240	1	-

NOTE:

THIS EQUIPMENT IS RATED AT 240V. FOR EQUIPMENT RATED FOR OTHER THAN THE SERVICE VOLTAGE, THE CONTRACTOR SHALL EITHER PROVIDE EQUIVALENT EQUIPMENT AT SERVICE VOLTAGE (IN COORDINATION WITH OWNER/ARCHITECT) OR PROVIDE AN ADAPTER/TRANSFORMER FOR THAT EQUIPMENT.



**FIRE STOP DETAILS**

ELECTRICAL PANEL SCHEDULE

PANEL: A (EXISTING)												MOUNTING: SURFACE		
208/120	VOLTS	PHASE	1						DEMAND LOAD	27.69			PANEL LOCATION: BASEMENT	
200A	MCB	WIRE	3						DEMAND CURRENT	133.14			FED FROM: METER	
NOTE:														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
						A	B							
1	20/2P	AIR COMPRESSOR (EXISTING)	H	1.70	EXISTING	2.06		2#12, #12G, 3/4"C	0.36	L	EMERGENCY LIGHTING & EXIT (EXISTING)	20	2	
3			H	1.70				2#12, #12G, 3/4"C	0.50	O	TIME CLOCK	20	4	
5	20/2P	VACUUM (EXISTING)	H	1.80	EXISTING	2.30		EXISTING	0.50	H	ROOF TOP AIR CONDENTIONER UNIT (EXISTING)	50/2P	6	
7			H	1.80			2.30		0.50	H		8		
9	20	DESK RECEPTACLE	R	0.54	2#12, #12G, 3/4"C	1.74		2#12, #12G, 3/4"C	1.20	L	EXTERIOR SIGNAGE	20	10	
11	20	SHOW WINDOW RECEPTACLE	R	1.80	2#12, #12G, 3/4"C		1.80				SPARE	20	12	
13	20	SHOW WINDOW RECEPTACLE	R	1.20	2#12, #12G, 3/4"C	1.38		2#12, #12G, 3/4"C	0.18	R	RESTROOM RECEPTACLE	20	14	
15	20	BASEMENT GENERAL RECEPTACLE	R	1.08	2#12, #12G, 3/4"C		4.68	2#8, #10G, 3/4"C	3.60	O	E01_WALK IN COOLER	40/2P	16	
17	20	MISCELLANEOUS LOAD	O	1.00	2#12, #12G, 3/4"C	4.60			3.60	O	SPARE		18	
19	20	GENRAL RECEPTACLE	R	0.36	2#12, #12G, 3/4"C		0.36				SPARE	20	20	
21	20	LIQUOR SHELVES JB	O	1.00	2#12, #12G, 3/4"C	1.36		EXISTING	0.36	H	COMPRESSOR ALARAM(EXISTING)	20	22	
23	20	SPARE					0.50	EXISTING	0.50	L	BATHROOM (EXITING)	20	24	
25	20	SPARE					0.36	EXISTING	0.36	H	FURNACE (EXISTING)	15	26	
27	15	SPARE					1.23	2#12, #12G, 3/4"C	1.23	L	INTERIOR LIGHTS(EXISTING)	15	28	
29	20	SPARE					0.00				SPARE	15	30	
31	20	SPARE					0.00				SPARE	15	32	
33	20	SPARE					0.00				SPARE	15	34	
35	20	SPARE					0.00				SPARE	15	36	
37	20	SPARE					0.00				SPACE		38	
39	20	SPARE					0.00				SPACE		40	
						13.80	13.07							

PANEL SCHEDULE GENERAL NOTE:

- ELECTRICAL CONTRACTOR SHALL VERIFY THE BREAKER AND CABLE RATING WITH EQUIPMENT SUPPLIER/OWNER AND ACCORDINGLY UPDATE THE BREAKER RATING CABLE SIZE IN FIELD.
- GFI MARKED ON THE POWER PLAN INDICATES THAT THE CIRCUIT SHALL BE GFCI PROTECTED. E.C. SHALL PROVIDE GFCI BREAKER FOR THE GFI MARKED RECEPTACLES, IF EITHER RECEPTACLE IS NOT ACCESSIBLE OR NOT AVAILABLE.
- PROVIDE HACR BREAKER FOR HAVC UNITS. COORDINATE WITH HVAC DRAWINGS.
- PROVIDE BREAKER LOCKING DEVICES IN THE PANELS, WHERE EVER REQUIRED BY CODE. INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING AND FIRE ALARM CIRCUITS.
- E.C. TO PROVIDE A CIRCUIT DIRECTORY FOR EACH PANEL BOARD.

PANEL SCHEDULE ABBREVIATIONS:

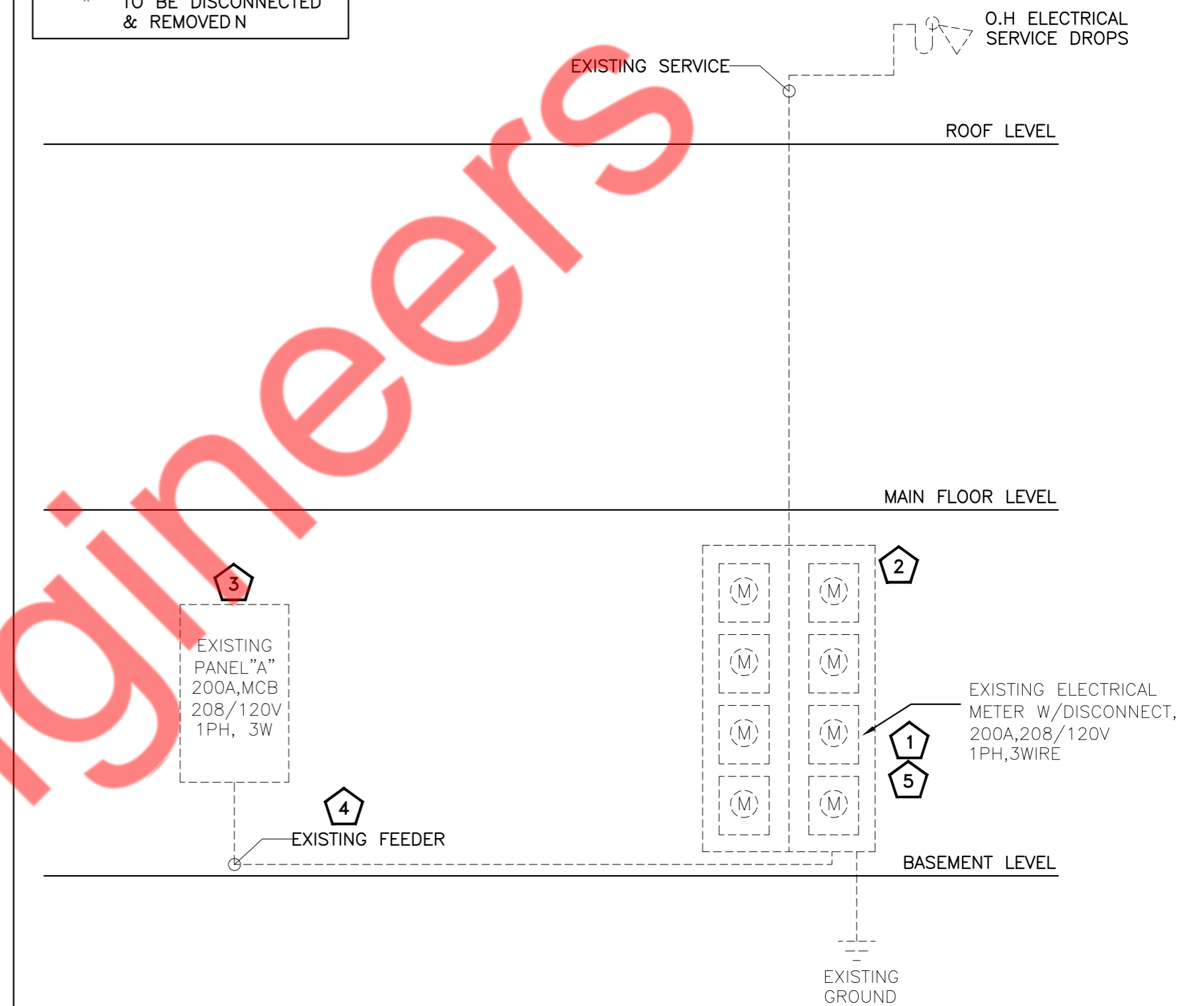
L=LIGHTING  
R=RECEPTACLE  
H=HVAC  
M=MOTOR  
O=OTHER

(\*) SHUNT TRIP BREAKER

ELECTRICAL RISER DIAGRAM

ELECTRICAL RISER SYMBOLS:

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



RISER DIAGRAM KEYED WORK NOTES #

- EXISTING 200A, 208/120V, 1PH, 3W ELECTRICAL METER AND DISCONNECT FOR THE PROJECT SPACE SHALL REMAIN. E.C TO VERIFY EXACT LOCATION, RATING AND OPERABLE CONDITION OF THE EXISTING METER & DISCONNECT/BREAKER IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING BASE BUILDING METER CENTER TO REMAIN.
- EXISTING 200A, MCB, 208/120V 1PH, 3W, ELECTRIC PANEL "A" FOR THE PROJECT SPACE SHALL REMAIN. E.C. SHALL VERIFY EXACT LOCATION, RATING & OPERABLE CONDITION OF THE PANEL IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING 200A, 208/120V, 1PH, 3W FEEDER SHALL REMAIN. E.C. SHALL VERIFY THE EXACT RATING AND OPERABLE CONDITION OF THE FEEDER IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- THE CONTRACTOR SHALL VERIFY THE EXACT VOLTAGE LEVEL IN THE FIELD. INFORM THE ENGINEER OF THE RECORD OF ANY DISCREPANCY BEFORE THE BID.

GENERAL NOTE:

- E.C. SHALL COORDINATE WITH UTILITY FOR THE AVAILABLE FAULT CURRENT AND VERIFY AIC RATING OF THE EXISTING DEVICES IN FIELD ACCORDINGLY.
- E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- E.C. SHALL VERIFY THE EXISTING POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER FOR ANY DISCREPANCY BEFORE COMMENCING ANY WORK.
- E.C TO VERIFY SCOPE OF WORK WITH OWNER/LANDLORD PRIOR TO BID.
- THE PART OF RISER MARKED AS EXISTING IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY THAT THE RISER MATCHES THE SITE CONDITION.
- ENSURE THE COMBINED VOLTAGE DROP OF THE FEEDER AND BRANCH CIRCUIT SHALL NOT EXCEED 5% PER CODE.
- COORDINATE THE EXACT LOCATION OF ALL THE NEW ELECTRICAL COMPONENTS SHOWN ON THE RISER. AND ENSURE THE CLEAR WORKING AND DEDICATED SPACE HAS BEEN PROVIDED AS PER NEC 110.26.
- ADDITION OR ALTERATION TO THE EXISTING SYSTEM SHALL NOT BE DONE WITHOUT THE WRITTEN CONSENT OF THE OWNER.
- PLEASE REFER POWER PLAN FOR PROPOSED LOCATION OF THE ELECTRICAL PANEL. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.