

ELECTRICAL GENERAL NOTES

A	AMPERE	K	KEY INTERLOCK
AC	ALTERNATING CURRENT	KCMIL	KILO CIRCULAR MILS
ACK	ACKNOWLEDGE	KVA	KILOVOLT-AMPERE
ACC	ACCESS CONTROL PANEL	KW	KILOWATT
AF	FRAME FRAME		
AFB	ABOVE FINISHED FLOOR	LA	LIGHTNING ARRESTER
AFS	ABOVE FINISHED GRADE	LB	CONDUIT BOX, RIGHT ANGLE
AHU	AIR HANDLING UNIT	LO	LOCKOUT
AIC	ARCHIVES INTERRUPTING CAPACITY (SYM, RMS, AMPS)	LCP	LOCAL CONTROL PANEL
AL	ALUMINUM	MB,MCB	MAIN CIRCUIT BREAKER
AM	AMMETER	MC	MACHINE
AT	AUTOMATIC TRIP	MFR	MULTIFUNCTION RELAY
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE, MOUNTING HEIGHT
AUTO	AUTOMATIC	MIN	MINIMUM
AUX	AUXILIARY	MLO	MAN LUG ONLY
AWG	AMERICAN WIRE GAUGE	MT	MOUNT
		MTD	MOUNTED
BAT	BATTERY	N	NEUTRAL
BKR	BREAKER	NA	NON-AUTOMATIC
BLDG	BUILDING	NC	NORMALLY CLOSED
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS	NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CONTROL BREAKER	NFSS	NON-USED SAFETY SWITCH
CC	CONTROL CABLE	NIPR	NON-CERTIFIED INTERNET PROTOCOL ROUTER
CH	CABINET HEATER	NO	NUMBER
CH CKT	CIRCUIT	NP	NAMEPLATE
CLR	CLEAR	NTS	NOT TO SCALE
COMB	COMBINATION	NVR	NETWORK VIDEO RECORDER
CONT'D	CONTINUED	OL	OVERLOAD
CPT	CONTROL POWER TRANSFORMER		
CR	CONTROL RELAY	P	POLE OR POLES
CT	CURRENT TRANSFORMER	PB	PULL BOX, PUSH BUTTON
CU	COPPER, COMPRESSOR UNIT	PF	POWER FACTOR
DC	DIRECT CURRENT	PH	PHASE
DIA	DIAMETER	PL	PILOT LIGHT
DIST	DISTRIBUTION	PM	MICROPROCESSOR BASED METERING
D/SW	DISCONNECT SWITCH	PMR	PHASE MONITOR RELAY
DIV	DIVISION	PMT	POWER MONITORING DEVICE
DN	DOWN	PNL	PANEL
DP	DISTRIBUTION PANEL	POM	POWER QUALITY MONITOR
DVR	DIGITAL VIDEO RECORDER	PR	PAIR
DWG	DRAWING	PT	POTENTIAL TRANSFORMER
E	EMPTY, ELECTRICAL INTERLOCK, EXISTING	R	REMOVE, RED, REAR, RUN CONTRACTORS
EA	EACH	RGCS,GRG	RIGID GALVANIZED STEEL / GALVANIZES RIGID CONDUIT
EC	EMPTY CONDUIT	RECP	RECEPTACLE
ECB	ENCLOSED CIRCUIT BREAKER	REQD	REQUIRED
EF	EXHAUST FAN	RMS	ROOM MEAN SQUARE
EL	ELEVATION	RM	ROOM
EMH	ELECTRIC MANHOLE	RTU	ROOM TOP UNIT
EO	ELECTRIC OPERATOR	SA	SURGE ARRESTOR
ETM	EXISTING RELOCATED	SIFR	SECRET INTERNET PROTOCOL ROUTER
ETR	EXISTING TO REMAIN	SPO	SURGE PROTECTION DEVICE
EX	EXISTING	SPT	SURGE PROTECTIVE DEVICE
F	FUSE, FRAME, FRONT	SW	SWITCH
FA	FRAME AMPS	SYM	SYMMETRICAL
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL	TA	TRIP AMPS
FDR	FEEDER	TB	TERMINAL BLOCK, TERMINAL BLOCK
FLR	FLOOR	TDR	TIME DELAY RELAY
FSS	FUSED SAFETY SWITCH	TJB	TERMINAL JUNCTION BOX
FUT	FUTURE	TSP	TWISTED SHIELDED PAIR
		TS	HIGH-TEMP RELAY
G	GREEN, GROUND, GROUND GRID	TSW	TEST SWITCH
GV	GALVANIZED	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
GVALV	GALVANIZED	TYP	TYPICAL
GEN	GENERATOR CONTACTOR, GENERATOR CONTROL PANEL	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UON	UNDERWRITERS LABORATORY
GFR	GROUND FAULT PROTECTION	VA	VOLTS OR VOLTAGE VOLTPAPMS
GND	GROUND		
HH	HANDHOLE		
HP	HORSE POWER		
HVAC	HEATING VENTILATION AND AIR CONDITION		
HZ	HERTZ		
I	INTERRUPTING CAPACITY		
ICCB	INSULATED CASE CIRCUIT BREAKER	W	WATTS, WIRE
I & C	INSTRUMENTATION & CONTROL	WH	WATTHOUR
ID	IDENTIFICATION	WP	WEATHERPROOF
IG	ISOLATED GROUND	WR	WELDING RECEPTACLE
INST	INSTANTANEOUS		
ITC	INTERFACE TERMINAL CABINET	XFMR	TRANSFORMER
J, JB	JUNCTION BOX	Z	IMPEDANCE

COORDINATION WITH POWER AND TELEPHONE COMPANIES (IF APPLICABLE)

1. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT REQUIREMENTS FOR INCOMING SERVICE OF LOCAL UTILITIES FOR POWER AND TELEPHONE, PAY ALL FEES, AND INSTALL A COMPLETE AND FUNCTIONAL SYSTEM.
2. FOR TELEPHONE SERVICE (IF APPLICABLE):
 - a. PROVIDE 1/4" THICK PLYYWOOD BOARD ON THE WALL OR AS DIRECTED BY THE GOVERNMENT/ENGINEER FOR TELEPHONE SERVICE. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR FOR COMPLETE TELEPHONE SYSTEM FROM THE UTILITY COMPANY'S POLE TO TELEPHONE BOARD INSIDE THE BUILDING.
 - b. PROVIDE JUNCTION BOX, COVER PLATE, FISH TAPE, AND CORD FOR ALL TELEPHONE OUTLETS. PROVIDE EMPTY CONDUIT IN BRICK WALLS.
 - c. COORDINATE INSTALLATION OF TELEPHONE SYSTEM INCLUDING TELEPHONE WIRING AND TELEPHONE OUTLETS WITH THE GOVERNMENT/ENGINEER.

NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES ARE APPLICABLE TO THIS PROJECT. USE ONLY THOSE PERTAINING TO THE PROJECT.

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ELECTRICAL
COVER SHEET

E001

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, LEGENDS AND GENERAL NOTES, SEE DRAWING E001.

- B. UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

1. DISCONNECT AND REMOVE EXISTING RECEPTACLE. PULL WIRING BACK TO SOURCE AND DISPOSE OFF. RE-WIRE REMAINING RECEPTACLES TO CONTINUE THE SERVICE IF THEY FEED FROM THE SAME CIRCUIT AS DEVICES TO BE DEMOLISHED INCLUDED IN THIS TASK.
2. EXISTING EQUIPMENT TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.
3. EXISTING RECEPTACLE TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.
4. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND CONTROLS. PULL WIRING BACK TO SOURCE AND DISPOSE OFF. RE-WIRE REMAINING LIGHTING FIXTURES TO CONTINUE THE SERVICE IF THEY FEED FROM THE SAME CIRCUIT AS DEVICES TO BE DEMOLISHED INCLUDED IN THIS TASK.



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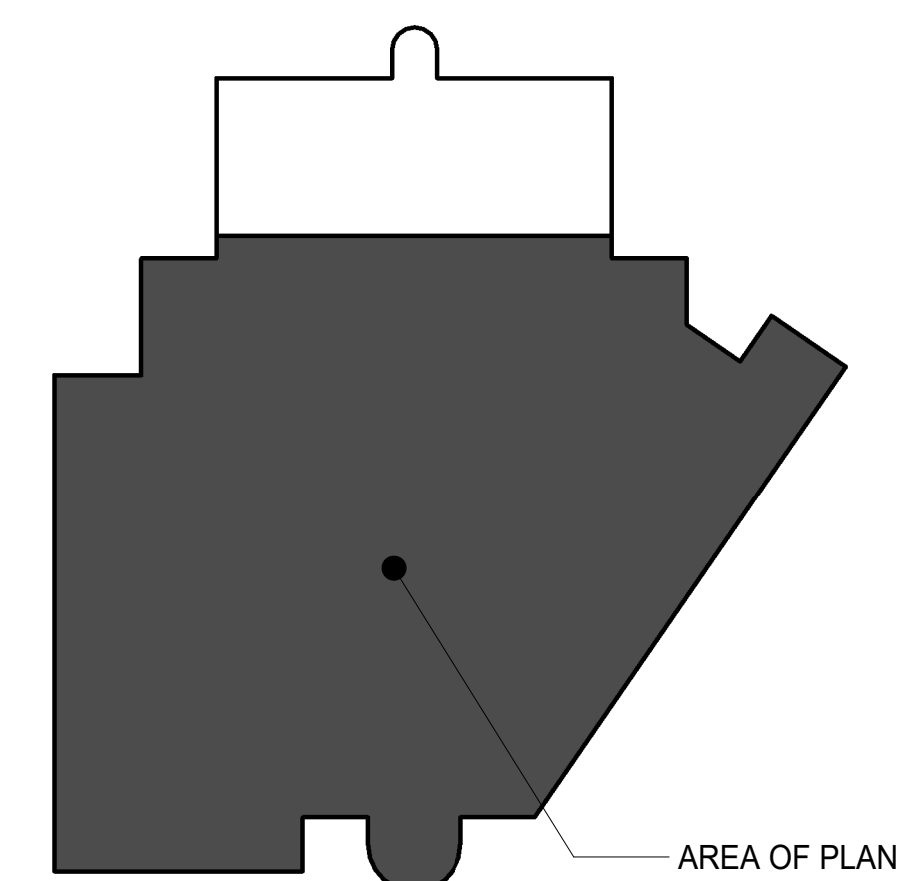
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ELECTRICAL 00 LEVEL
DEMOLITION PLAN

E101



02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"

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A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, LEGENDS AND GENERAL NOTES, SEE DRAWING E001.

- B. UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

1. DISCONNECT AND REMOVE EXISTING RECEPTACLE. PULL WIRING BACK TO SOURCE AND DISPOSE OFF. RE-WIRE REMAINING RECEPTACLES TO CONTINUE THE SERVICE IF THEY FEED FROM THE SAME CIRCUIT AS DEVICES TO BE DEMOLISHED INCLUDED IN THIS TASK.
2. EXISTING RECEPTACLE AND EQUIPMENT TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.
3. RELOCATE EXISTING ANTENNA AS SHOWN ON NEW WORK PLAN.
4. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND CONTROLS. PULL WIRING BACK TO SOURCE AND DISPOSE OFF. RE-WIRE REMAINING LIGHTING FIXTURES TO CONTINUE THE SERVICE IF THEY FEED FROM THE SAME CIRCUIT AS DEVICES TO BE DEMOLISHED INCLUDED IN THIS TASK.
5. EXISTING LIGHTING FIXTURE TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.

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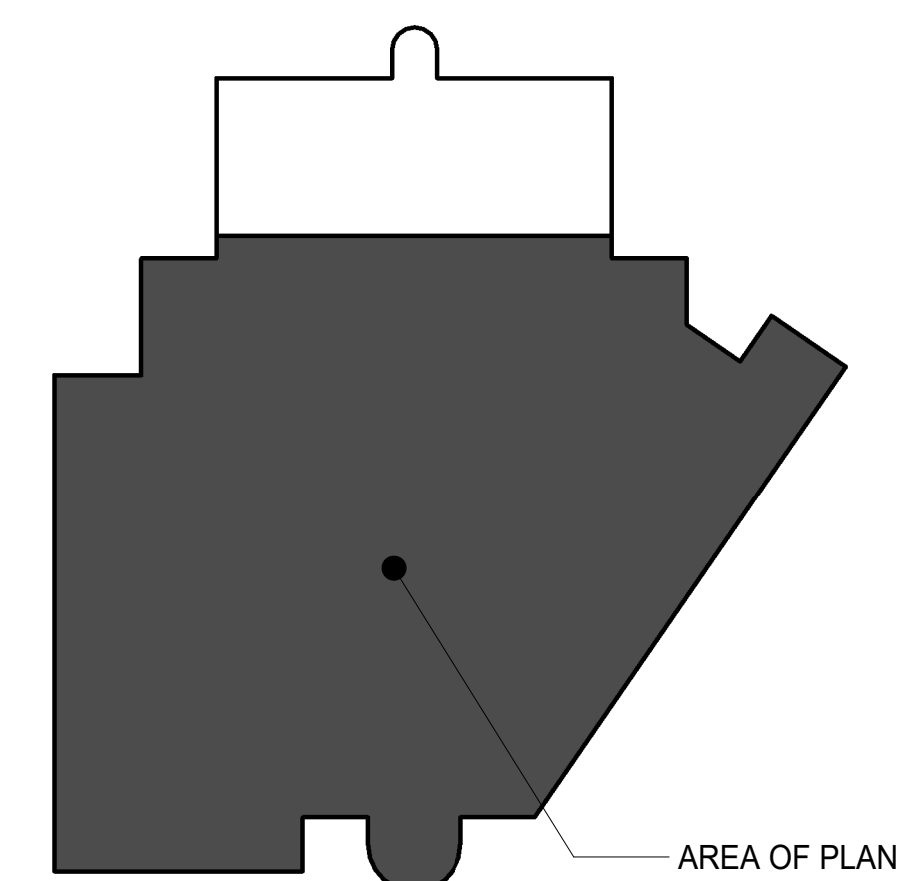
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ELECTRICAL 01 LEVEL
DEMOLITION PLAN

E102



01 | 01 LEVEL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"

02 | KEYPLAN

C. UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

K. 3/4" SHALL BE THE MINIMUM CONDUIT INSTALLED.

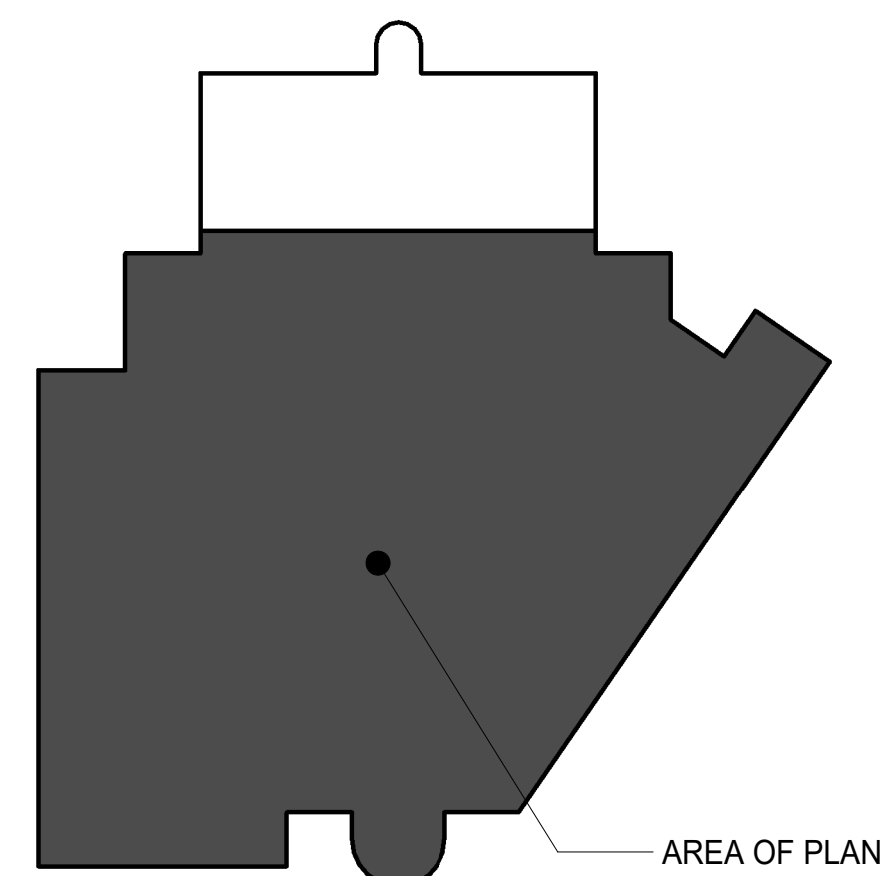
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Seal of the State of Maryland Professional Engineer. The seal is circular with a double border. The outer border contains the text "STATE OF MARYLAND" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner border contains the name "TODD D. FRIEDMAN" at the top and the license number "45093" at the bottom. In the center is the coat of arms of the State of Maryland, featuring a shield with a ship and a figure, surrounded by a wreath. A signature, "Todd Friedman", is written across the bottom of the seal.

SCALE:	As indicated

E201



02 | KEYPLAN
SCALE: 3/64" = 1'-0"

SCALE: $\frac{3}{64}'' = 1'-0''$

D. ALL OUTLETS IN THE KITCHEN MUST BE A COMBINATION OF AFCI, GFCI AND TAMPER PROOF PER NEC 2014 ARTICLE 210-8(B) 1 & 2, THROUGH 210-12(A)6, 2017 DC CONSTRUCTION CODE AND IRC 2015.

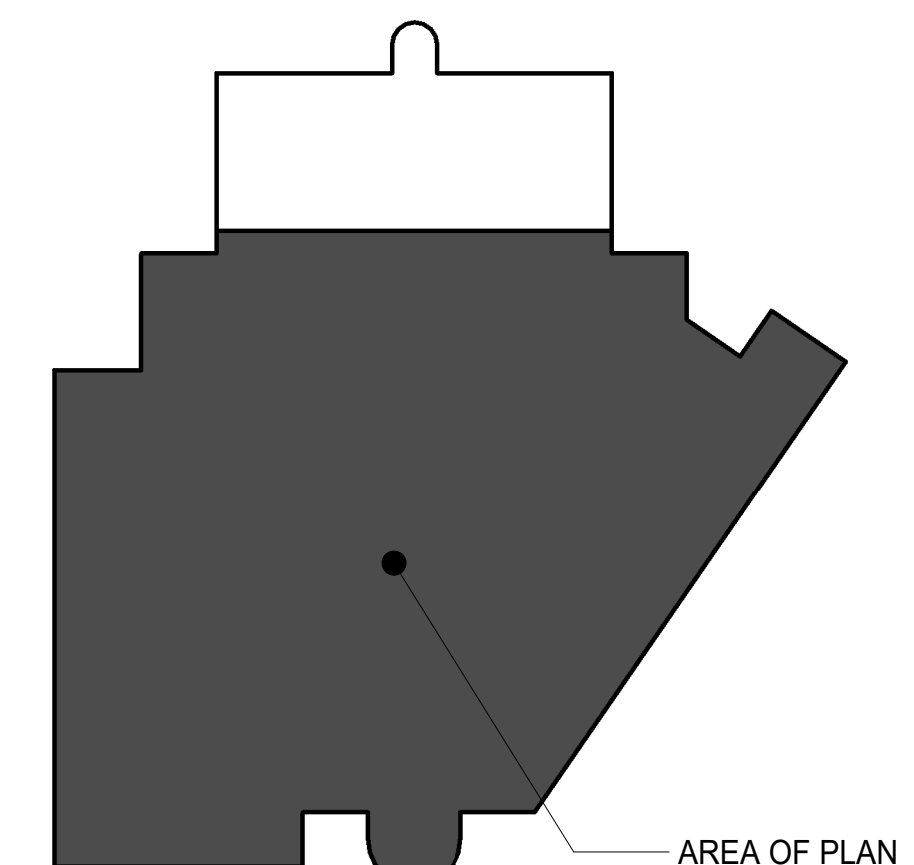
K. 3/4" SHALL BE THE MINIMUM CONDUIT INSTALLED.

5. PROVIDE NEW ELECTRICAL PANEL INCLUDING WIRING AND CONDUIT AS SHOWN.



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SCALE: 3/64" = 1'-0"



A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, LEGENDS AND GENERAL NOTES, SEE DRAWING E001.

- POWER GENERAL NOTES:

- KEYED NOTES:**

1. PROVIDE NEW RECEPTACLES AS INDICATED INCLUDING WIRING AND CONDUIT. COORDINATE THE EXACT LOCATION WITH OWNER.
2. PROVIDE NEW TELECOMMUNICATION OUTLETS AS INDICATED INCLUDING WIRING AND CONDUIT. CONNECT TO EXISTING TELECOM / IT RACK. COORDINATE THE FINAL LOCATION OF OUTLETS WITH OWNER.
3. PROVIDE NEW ELECTRICAL CONNECTIONS TO THE MECHANICAL EQUIPMENT INCLUDING WIRING AND CONDUIT AS INDICATED. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
4. PROVIDE NEW RECEPTACLE AS INDICATED INCLUDING WIRING AND CONDUIT. CONNECT TO NEAREST EXISTING POWER CIRCUIT.

KEYED NOTES:

1. PROVIDE NEW RECEPTACLES AS INDICATED INCLUDING WIRING AND CONDUIT. COORDINATE THE EXACT LOCATION WITH OWNER.
2. PROVIDE NEW TELECOMMUNICATION OUTLETS AS INDICATED INCLUDING WIRING AND CONDUIT. CONNECT TO EXISTING TELECOM / IT RACK. COORDINATE THE FINAL LOCATION OF OUTLETS WITH OWNER.
3. PROVIDE NEW ELECTRICAL CONNECTIONS TO THE MECHANICAL EQUIPMENT INCLUDING WIRING AND CONDUIT AS INDICATED. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
4. PROVIDE NEW RECEPTACLE AS INDICATED INCLUDING WIRING AND CONDUIT. CONNECT TO NEAREST EXISTING POWER CIRCUIT.



02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"

SCALE: 3/64" = 1'-0"

SHINBERG.LEVINAS

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ELECTRICAL 02 LEVEL
POWER PLAN

E203

KEYED NOTES:

1. PROVIDE NEW ELECTRICAL CONNECTIONS INCLUDING WIRING AND CONDUIT TO NEW MECHANICAL EQUIPMENT. FOR EXACT LOCATION AND REQUIREMENTS, SEE MECHANICAL DRAWINGS. PROVIDE FUSED DISCONNECT SWITCH, FUSES AS PER MANUFACTURER NAMEPLATE.
2. PROVIDE NEW WEATHERPROOF RECEPTACLE INCLUDING WIRING AND CONDUIT AS INDICATED. MOUNT RECEPTACLE ON POST. SEE DETAIL ON DRAWING E002.

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(000) 000-0000

GEOTECHNICAL ENGINEER

NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000

STRUCTURAL ENGINEER

NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000

MEP

NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000

LIGHTING

NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000

KITCHEN / FOOD SERVICE

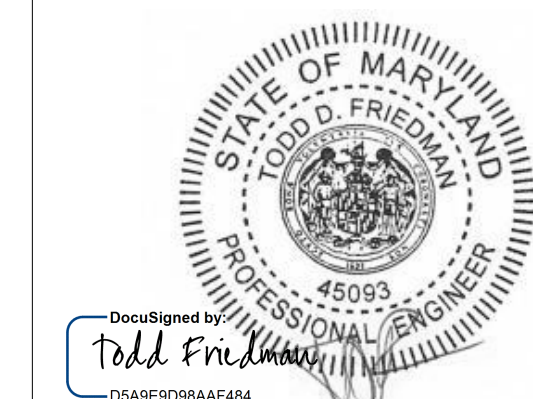
NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000**VOICE / DATA / AV / SECURITY**

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(000) 000-0000

ISSUES

[illegible]

SEAL



PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER
45093, EXPIRATION DATE 2/24/2028.

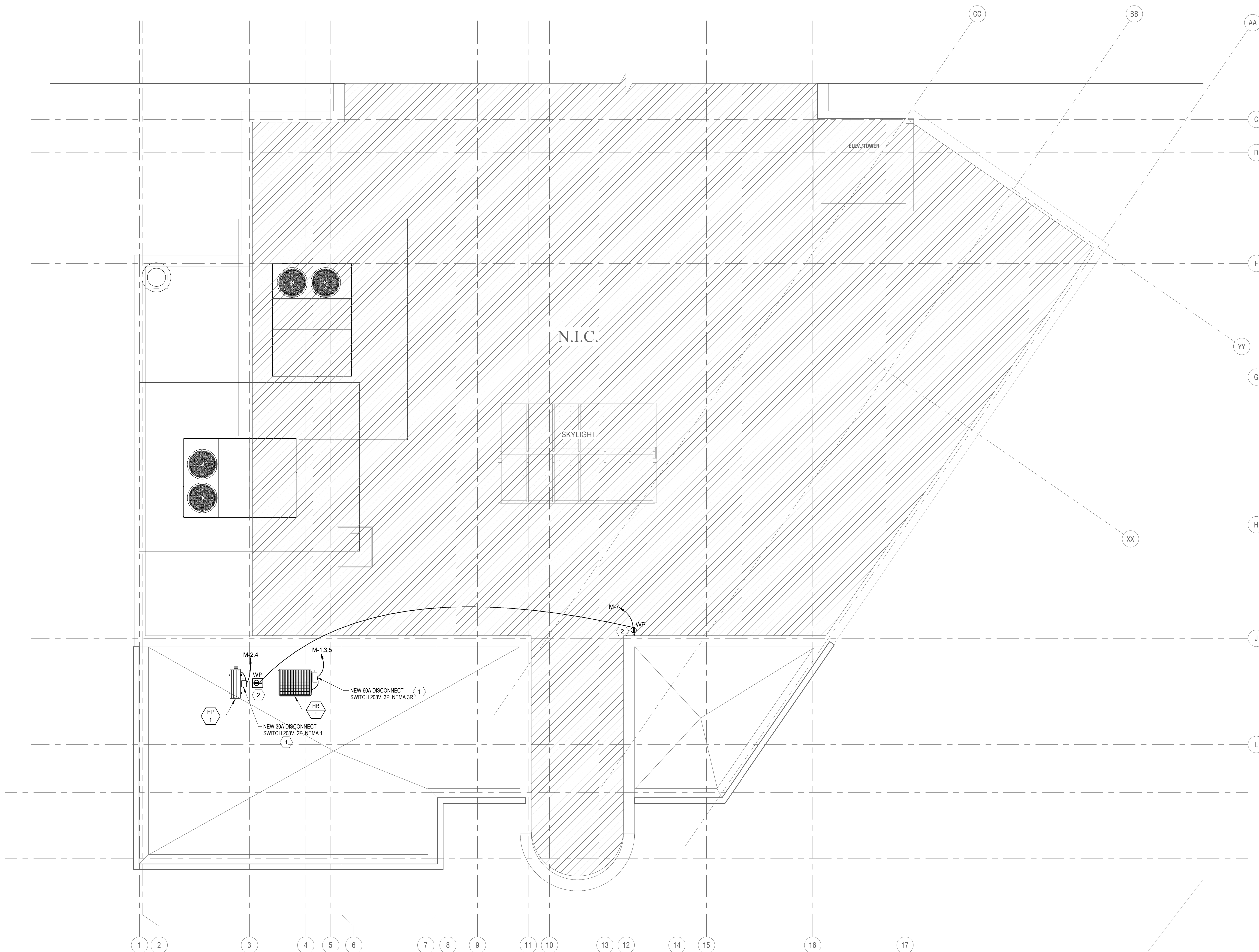
DATE:	08/17/2026
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SCALE: As indicated

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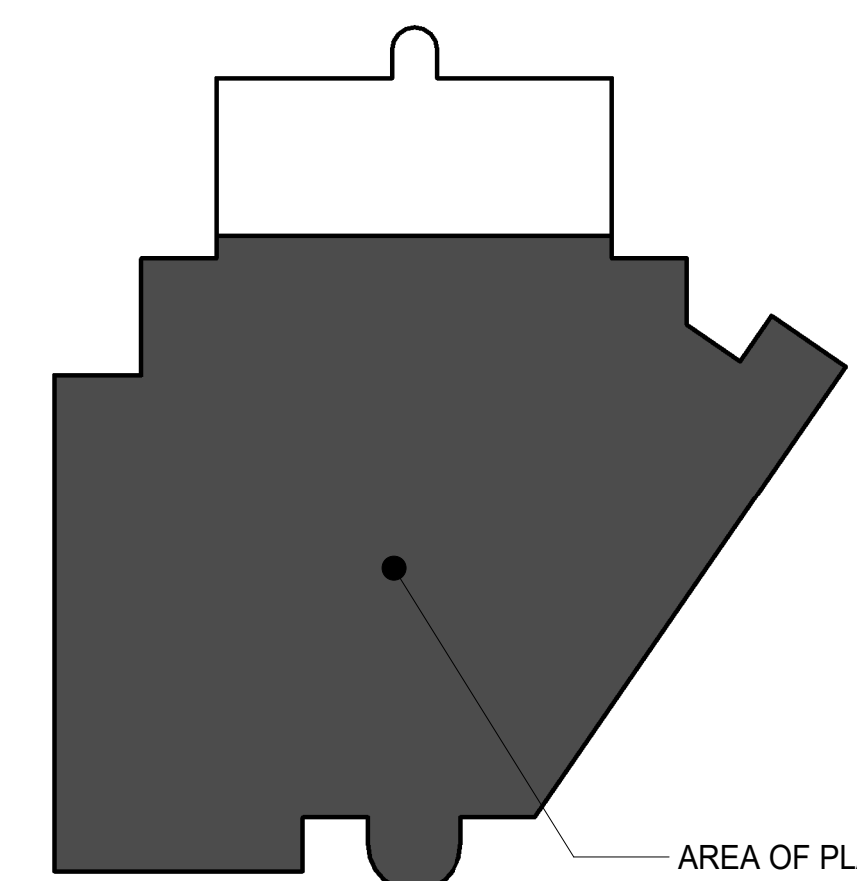
ELECTRICAL ROOF
LEVEL POWER PLAN

E204



SCALE: 1/4" = 1'-0"

SCALE: $3/64" = 1'-0"$



— AREA OF PLAN

C. UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

K. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE CLIENT'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE CLIENT PERSONNEL WITH THE LIGHTING CONTROL SYSTEM OPERATION, ADJUSTMENT, AND TROUBLESHOOTING.

2. CONNECT EXIT AND EMERGENCY LIGHTING FIXTURE AHEAD OF THE SWITCH.

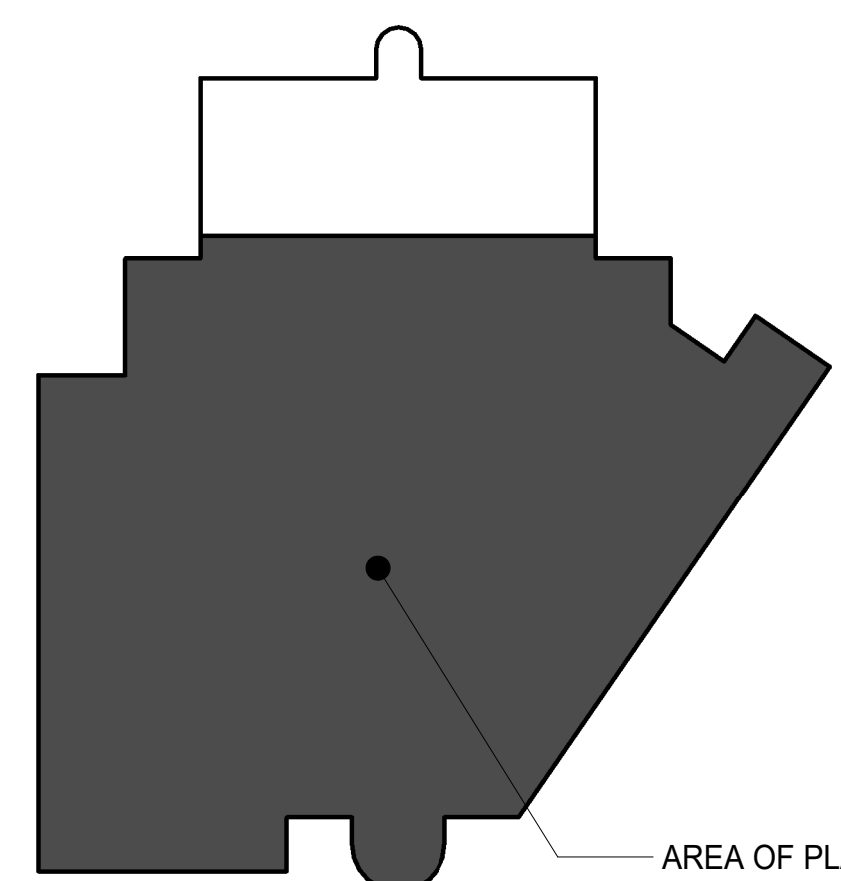
NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
(000) 000-0000

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DocuSigned by:
Todd Friedman
DSAG9D86A6F484...

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E301



02 | KEYPLAN
SCALE: 3/64" = 1'-0"

SCALE: 3/64" = 1'-0"

C. UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

K. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE CLIENT'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE CLIENT PERSONNEL WITH THE LIGHTING CONTROL SYSTEM OPERATION, ADJUSTMENT, AND TROUBLESHOOTING.

1. PROVIDE NEW LIGHTING FIXTURE, SWITCH AND OCCUPANCY SENSOR, INCLUDING WIRING AND CONDUIT, FOR EXACT LOCATION AND MOUNTING HEIGHT, COORDINATE WITH ARCHITECTURAL DRAWINGS.

2. CONNECT EMERGENCY LIGHTING FIXTURE AHEAD OF THE SWITCH.



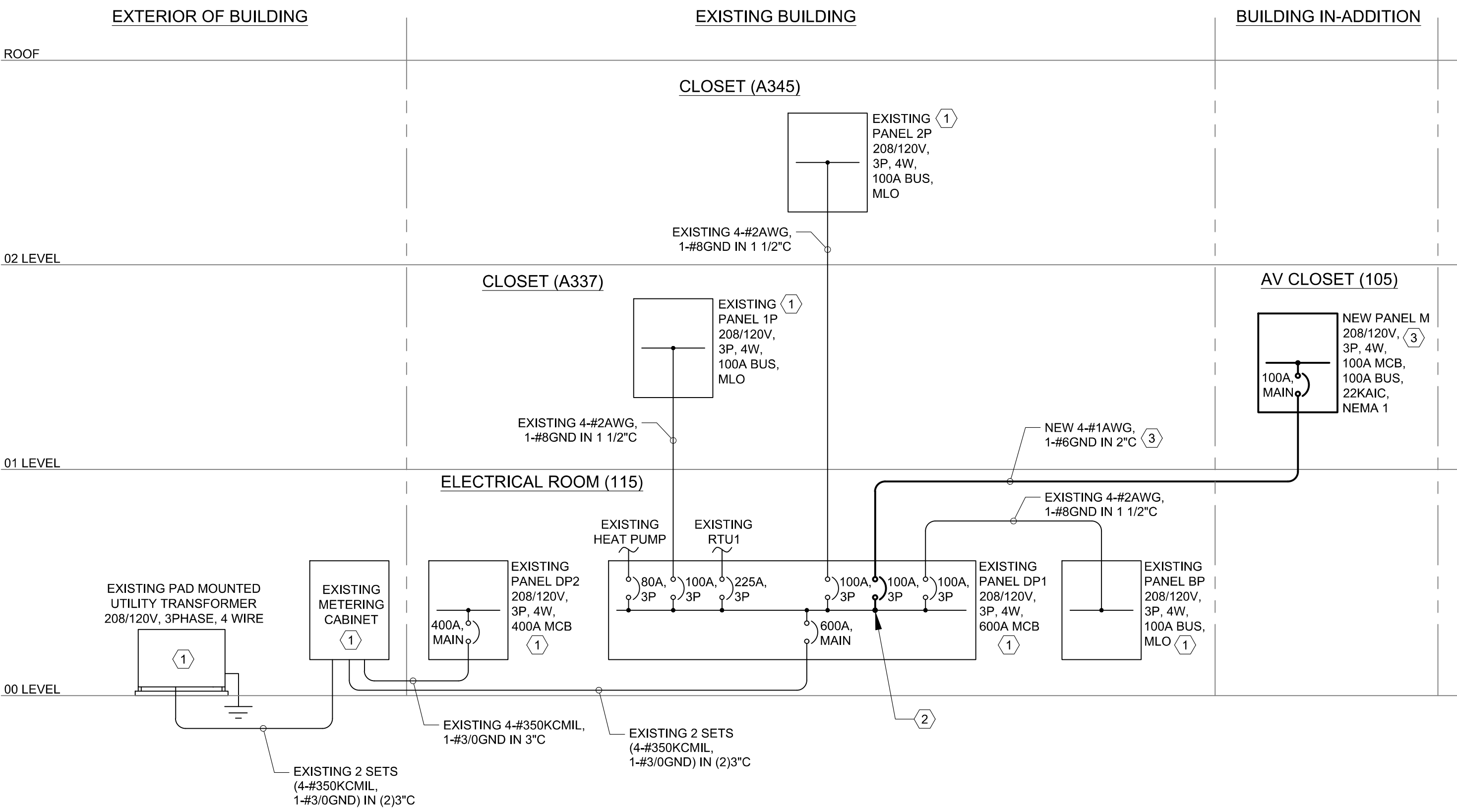
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NAME
NUMBER, STREET, AND APT. NO.
CITY, STATE AND ZIP
00000-0000

E302



SCALE: 3/64" = 1'



- SPECIFIC NOTES FOR PARTIAL RISER DIAGRAM:
- PARTIAL POWER RISER DIAGRAM FOR THE EXISTING SYSTEM IS REPRODUCED BASED ON RECORD DRAWINGS PROVIDED BY OWNER AND VISUAL, NON-INVASIVE FIELD SURVEY ONLY, WITH LIMITED OR NO ACCESS TO ENCLOSED CONCEALED SPACES, CONTRACTOR TO FIELD VERIFY THE SYSTEM CONFIGURATION, NOTIFY OWNER / ENGINEER IMMEDIATELY IF ANY DISCREPANCY IS FOUND, AND SEEK DIRECTIONS BEFORE MAKING ANY MODIFICATIONS.

1 PARTIAL ELECTRICAL POWER RISER DIAGRAM - EXISTING AND NEW WORK
SCALE: NONE

ANJUMAN-E-EZZI MASJID - ELECTRICAL LOAD CALCULATIONS			
Existing Metered Peak Demand with-in last 24 months - (10/2023 - 10/2025) (as per Monitoring data provided by Owner)		75	KW
Assumed Power Factor		0.8	PF
Current Demand Load (@208V, 3Phase)		94	KVA
		260	AMP
New Demand Load	Lighting and Plug - in	13	KVA
	HVAC Load	20	KVA
Total New Demand Load		34	KVA
		94	AMP
Total (Current + New) Demand Load (@208V, 3Phase)		127	KVA
		354	AMP
Existing Service Available (@208V, 3Phase)		600	AMP

LIGHT FIXTURE SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLTA GE (V)	WATTS (MAX)
A	24" X 24" RECESSED LED LIGHT FIXTURE	COLUMBIA	LJT22-930MLG-FSA12-ED1U	120	31.00
AE	24" X 24" RECESSED LED LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	COLUMBIA	LJT22-930MLG-FSA12-ED1U-ELL14	120	31.00
B	24" X 48" SURFACE MOUNTED LED TROFFER WITH PATTERNED ACRYLIC LENS	COLUMBIA	LJT24-30HLSM-FSA12-ED1U	120	45.00
BE	24" X 48" SURFACE MOUNTED LED TROFFER , WITH EMERGENCY BATTERY PACK	COLUMBIA	LJT24-30HLSM-FSA12-ED1U-ELL14	120	45.00
C	6" RECESSED DOWNLIGHT LED LIGHT FIXTURE	PRESCOLITE	LFR-6RD-M-15L30K9-WD-DM1	120	11.40
CE	6" RECESSED DOWNLIGHT LED LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	PRESCOLITE	LFR-6RD-M-15L30K9-WD-DM1-EM	120	11.40
D	6" RECESSED DOWNLIGHT LED LIGHT FIXTURE WITH FLUSH CLEAR LENS TRIM	PRESCOLITE	LBS2S2-6RD-CS9-WH	120	14.10
L	4" RECESSED LINEAR LED LIGHT FIXTURE	LUMENWERX	V3PERS-HOL-SW-90-500LM-8 FT-UNV-D1-1-DMF-W	120	21.00
Y	EMERGENCT LIGHT FIXTURE WITH BATTERY HEAD	LITHONIA LIGHTING	ELM2L M12	120	3.00
Z	RECESSED EXIT LIGHT FIXTURE	LITHONIA LIGHTING	EDGR-1-R-EL	120	3.00

- FIXTURE SCHEDULE NOTES:
- 90% OF THE LIGHTING FIXTURES SHALL CONTAIN HIGH EFFICIENCY LAMPS.
 - WATTAGE SHOWN IS FIXTURE RATED MAXIMUM, DO NOT EXCEED MFG RECOMMENDATION.

DRAWING NOTES:

- FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES, SEE DRAWING E-001.
- UPON COMPLETION OF WORK, UPDATE DIRECTORIES, LABELS, TAGS, ETC., OF ALL AFFECTED EQUIPMENT, DEVICES, CABLES, CONDUITS, ETC., TO ENSURE THAT ALL SYSTEM ELEMENTS CARRY CORRECT IDENTIFICATION.

KEYED NOTES: #

- EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.
- REPLACE EXISTING (1)100A/3P CIRCUIT BREAKER WITH NEW (1)100A/3P CIRCUIT BREAKER, COMPATIBLE WITH EXISTING PANEL TO FEED NEW PANEL M AS INDICATED INCLUDING NEW WIRING AND CONDUIT.
- PROVIDE NEW ELECTRICAL PANEL M, RATINGS AS SHOWN INCLUDING NEW WIRING AND CONDUIT.

THE AREA RESERVED FOR OSCA STAMPS

shirberg.levinas

Shirberg Levinas Architectural Design Inc.

5101 Wisconsin Ave #310
Arlington, DC 20016

T 202.244.5101
F 202.244.5363

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ANJUMAN-E-EZZI MASJID

18728 NEW HAMPSHIRE AVE.
ASHTON, MARYLAND 20881

OWNER

ANJUMAN-E-EZZI MASJID MOSQUE

CIVIL ENGINEER

GUTSCHICK, LITTLE & WEBER, P.A.
3805 NATIONAL DRIVE, SUITE 250
BURTONSVILLE, MD 20866
(301) 421-4024

STRUCTURAL ENGINEER

MELEY MENGSTU
10406 HEADLY CT
BIRMGHAM, VA 22032
(571) 357-8098

MP + FP ENGINEER

FRIEDMAN ENGINEERING, LLC
13975 CONNECTICUT AVE, STE 220
SILVER SPRING, MD 20906
(301) 298-5070

ELECTRICAL

ASTUTE ENGINEERING
8614 WESTWOOD CENTER DR., SUITE 440
VIENNA, VA 22182
(202) 400-2004

KITCHEN / FOOD SERVICE

NYKOS-GARCIA FOODSERVICE DESIGN
18219-A FLOWER HILL WAY
GATHERSBURG, MD 20879
(240) 855-9530

ISSUES

NO.	ISSUE	DATE
1	SCHEMATIC DESIGN	12.02.2025
2	DESIGN DEVELOPMENT	01/09/2026
3	PERMIT SET	08/17/2026

SEAL

STATE OF MARYLAND

JOSEPH D. FRIEDMAN

PROFESSIONAL ENGINEER

Electrical Engineering

DESIGNED BY: *John Friedman*

DATE: 08/17/2025

PROFESSIONAL CERTIFICATION:

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 45093, EXPIRATION DATE 2/24/2028.

DATE:

08/17/2026

SCALE:

As indicated

ELECTRICAL
POWER RISER DIAGRAM
AND SCHEDULES

E501

KEYED NOTES: (#)

1. PROVIDE NEW ELECTRICAL PANEL M. RATINGS AS SHOWN INCLUDING NEW WIRING AND CONDUIT.
2. REPLACE EXISTING (1)100A/3P CIRCUIT BREAKER WITH NEW (1)100A/3P CIRCUIT BREAKER, COMPATIBLE WITH EXISTING PANEL TO FEED NEW PANEL M AS INDICATED INCLUDING NEW WIRING AND CONDUIT.
3. PROVIDE NEW CIRCUIT BREAKER (COMPATIBLE WITH THE EXISTING PANEL) AT THE AVAILABLE SPACE TO FEED THE NEW LOAD AS SHOWN.
4. REPLACE EXISTING (1)110A/3P CIRCUIT BREAKER WITH NEW (3)20A/1P CIRCUIT BREAKER, COMPATIBLE WITH EXISTING PANEL TO FEED NEW PANEL M AS INDICATED INCLUDING NEW WIRING AND CONDUIT.

EXISTING PANEL: DP1										FED FROM: EXISTING UTILITY									
LOCATION/BLDG: ELECTRICAL ROOM										MLO / MAIN: MAIN									
KAIC: EXISTING										MAIN BREAKER RATING: 600A									
ENCLOSURE TYPE: EXISTING										VAC									
MOUNTING: RECESSED										PHASES: 3									
LOAD VA										WIRE SIZE									
LOAD DESCRIPTION										LOAD VA									
PH A PH B PH C TA P										WIRE SIZE									
NEW EWH-1 - SERVICE VESTIBULE(003) - BASEMENT										2-#12AWG, 1#12G									
NEW RT-1 - STORAGE(004) - BASEMENT										2-#12AWG, 1#12G									
SPARE										N/A									
SPARE										N/A									
SPARE										N/A									
SPARE										N/A									
EXISTING HEAT PUMP										EXISTING									
EXISTING BASEMENT PANEL - BP										EXISTING									
SUB TOTAL PER PHASE										18473 18631 16267									
TOTAL LOAD PER PHASE										66192 65842 60017									
TOTAL CONNECTED LOAD										192050 533 A									
NOTE:-										1. CONTRACTOR SHALL VERIFY THE ACCURACY OF EXISTING PANEL DIRECTORY IN FIELD.									
2. AFTER REMOVAL OF THE EXISTING LOAD, RE-TAG THE BREAKER AS "SPARE."																			

EXISTING PANEL: DP2										FED FROM: EXISTING UTILITY									
LOCATION/BLDG: ELECTRICAL ROOM										MLO / MAIN: MAIN									
KAIC: EXISTING										MAIN BREAKER RATING: 400A									
ENCLOSURE TYPE: EXISTING										VAC									
MOUNTING: RECESSED										PHASES: 3									
LOAD VA										WIRE SIZE									
LOAD DESCRIPTION										LOAD VA									
PH A PH B PH C TA P										WIRE SIZE									
EXISTING ELEVATOR										EXISTING									
EXISTING UNKNOWN LOAD										EXISTING									
ELEVATOR CAB LIGHT										EXISTING									
NEW LIGHTING - BASEMENT										2-#12AWG, 1#12G									
SPACE										N/A									
SPACE										N/A									
SUB TOTAL PER PHASE										9068 9646 9146									
TOTAL LOAD PER PHASE										40032 40611 38807									
TOTAL CONNECTED LOAD										119450 332 A									
NOTE:-										1. CONTRACTOR SHALL VERIFY THE ACCURACY OF EXISTING PANEL DIRECTORY IN FIELD.									

EXISTING PANEL: BP										FED FROM: EXISTING PANEL DP-1													
LOCATION/BLDG: ELECTRICAL ROOM						BUS:		100 AMPS				MLO / MAIN: MLO											
KAIC: EXISTING						VOLTAGE:		208/120V		VAC		MAIN BREAKER RATING: N/A											
ENCLOSURE TYPE: EXISTING						MOUNTING: RECESSED				PHASES:		3				WIRES:		4		GND: Y			
LOAD DESCRIPTION		LOAD VA					WIRE SIZE		CKT NO.		BUS		CKT. NO.		WIRE SIZE		LOAD VA					LOAD DESCRIPTION	
		PH A	PH B	PH C	TA	P											PH A	PH B	PH C				
EXISTING BASEMENT LIGHTING		500	-	-	20	1	EXISTING	1					2	EXISTING	20	1	500	-	-		EXISTING LIGHT AND RECEPTACLE		
EXISTING BASEMENT LIGHTING		-	500	-	20	1	EXISTING	3					4	EXISTING	20	1	-	540	-		EXISTING RECEPTACLE		
EXISTING BASEMENT LIGHTING		-	-	500	20	1	EXISTING	5					6	EXISTING	20	1	-	-	500		EXISTING EMERGENCY LIGHT		
EXISTING BASEMENT LIGHTING		500	-	-	20	1	EXISTING	7					8	EXISTING	20	1	1000	-	-		EXISTING UNKNOWN LOAD		
EXISTING BASEMENT LIGHTING		-	750	-	20	1	EXISTING	9					10	EXISTING	20	1	-	1000	-		EXISTING UNKNOWN LOAD		
EXISTING UNKNOWN LOAD		-	-	180	20	1	EXISTING	11					12	EXISTING	20	1	-	-	1000		EXISTING KITCHEN RECEPTACLES		
EXISTING RECEPTACLE		180	-	-	20	1	EXISTING	13					14	EXISTING	20	1	1000	-	-		EXISTING KITCHEN RECEPTACLES		
EXISTING ROOF RECEPTACLE		-	180	-	20	1	EXISTING	15					16	EXISTING	20	1	-	1000	-		EXISTING RECEPTACLES		
EXISTING OUTSIDE LIGHT		-	-	500	20	1	EXISTING	17					18	2-#12AWG, 1#12G	20	1	-	-	1080		NEW RECEPTACLE - VESTIBULE(002) - BASEMENT		
③	NEW RECEPTACLE - SERVICE VESTIBULE(003) - STORAGE(004) - BASEMENT		1440	-	-	20	1	2-#12AWG, 1#12G	19				20	EXISTING	30	1	500	-	-		EXISTING TIME CLOCK AND EXIT LIGHT		
EXISTING GARBAGE DISPOSAL		-	1500	-	20	1	EXISTING	21					22	EXISTING	20	1	-	1000	-		EXISTING UNKNOWN LOAD		
EXISTING KITCHEN RECEPTACLES		-	-	1500	20	1	EXISTING	23					24	2-#12AWG, 1#12G	20	1	-	-	900		NEW RECEPTACLE - VESTIBULE(001) - BASEMENT		
EXISTING JOCKEY PUMP		1921	-	-	20	3	EXISTING	25				26	EXISTING	30	2	2496	-	-	500				
		-	1921	-				2496															
		-	-	1921				-	-														
SUB TOTAL PER PHASE		4541	4851	4601																			
TOTAL LOAD PER PHASE		10037	10887	8581																			
TOTAL CONNECTED LOAD -		29506		VA		NOTES:																	
		82		A		1. VA RATINGS FOR EXISTING LOADS ARE TAKEN FROM RECORD DRAWINGS PROVIDED BY OWNER.																	

Project Title: ANJUMAN-E-EZZI MASJID Report date: 08/13/26
Data filename: Page 1 of 5

Project Title: ANJUMAN-E-EZZI MASJID
Data filename:
Report date: 08/13/26
Page 2 of 5

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: ANJUMAN-E-EZZI MASJID

Report date: 08/13/26

Data filename:

Page 3 of 5

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23]P	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.5 [EL27]P	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.7 [EL26]P	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.8 [EL27]P	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.9.1, C405.9.2 [EL28]P	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.10 [EL29]P	Total voltage drop across the combination of feeders and branch circuits $\leq$ 5%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.1.1 [EL30]P	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy $\geq$ 65 lm/W or luminaires with efficacy $\geq$ 45 lm/W or comply with C405.2 or C405.3.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.11, C405.11.1 [EL31]P	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and $\geq$ 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: ANJUMAN-E-EZZI MASJID
Data filename:

Report date: 08/13/26
Page 4 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F17]†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.1.1 [F15]†	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.2.5 [F16]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C408.3 [F13]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:	
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☐ 1 High Impact (Tier 1)
 ☒ 2 Medium Impact (Tier 2)
 ☐ 3 Low Impact (Tier 3)

Project Title: ANJUMAN-E-EZZI MASJID
 Report date: 08/13/26
 Data filename: Page 5 of 5

[illegible]

FA001

A. FOR FIRE ALARM SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING F001.

1. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES. PULL WIRING BACK TO SOURCE AND DISPOSE OF.
2. EXISTING FIRE ALARM DEVICES TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.

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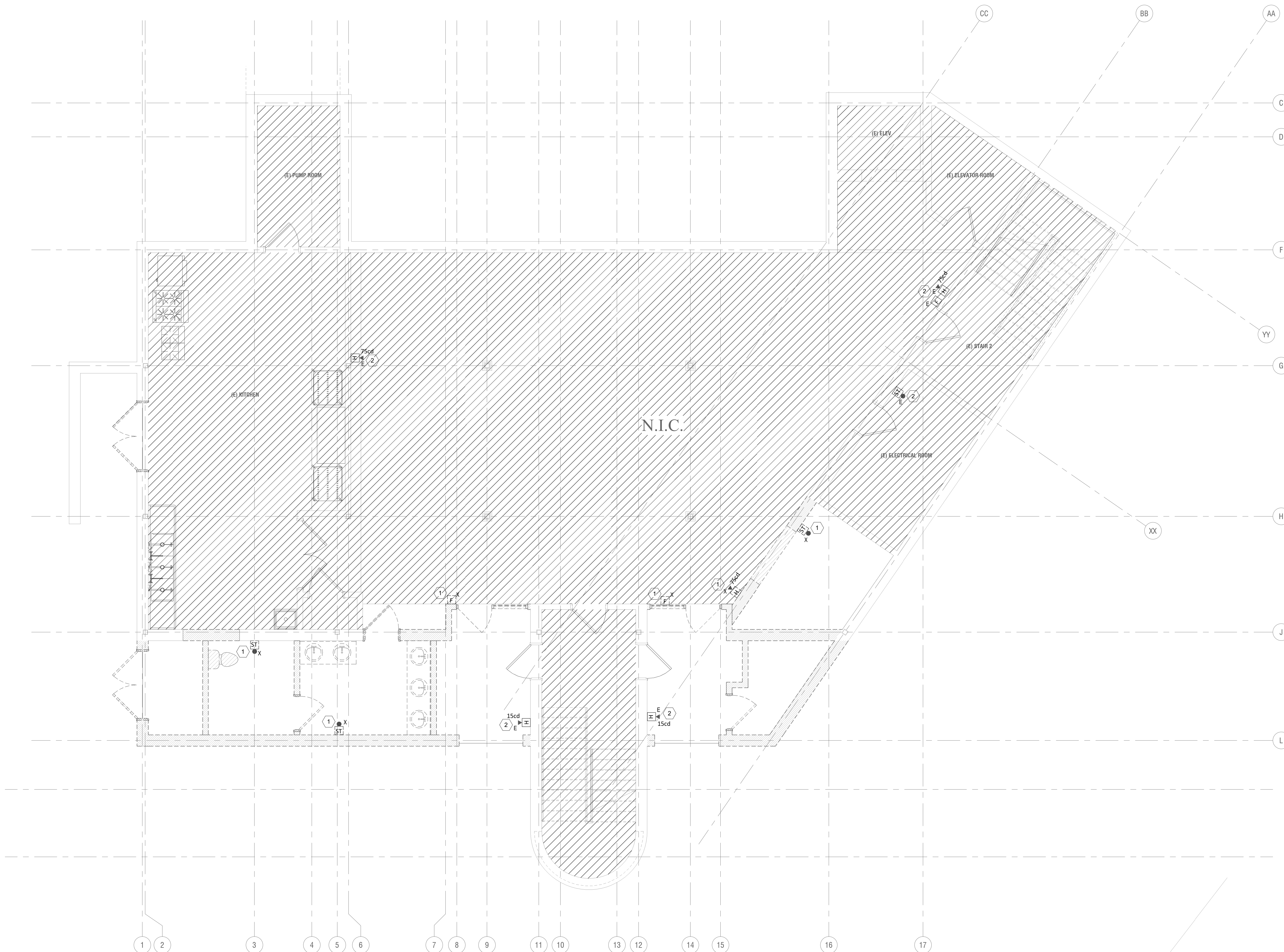
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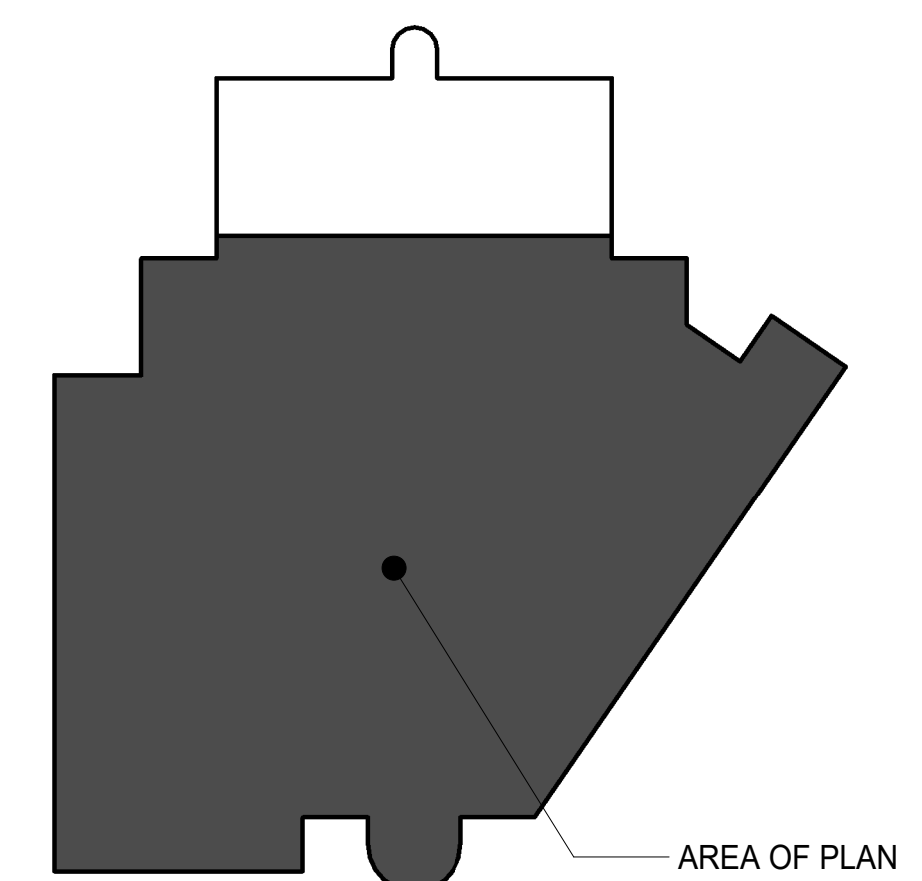
Seal of the State of Maryland Professional Engineer. The seal is circular with "STATE OF MARYLAND" at the top and "PROFESSIONAL ENGINEER" at the bottom. In the center is the coat of arms of Maryland. Below the coat of arms is the license number "450993". The name "TODD D. FRIEDMAN" is written across the seal.

Declassified by:
 Todd Friedman
 OSAGE3008AAAF-484

FA101



02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"



A. FOR FIRE ALARM SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING F001.

- KEYED NOTES:** 

1. EXISTING FIRE ALARM DEVICES TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.



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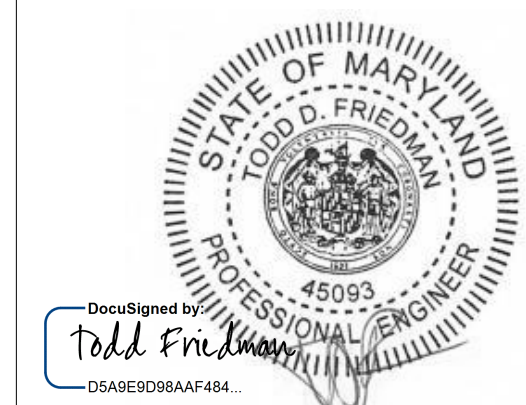
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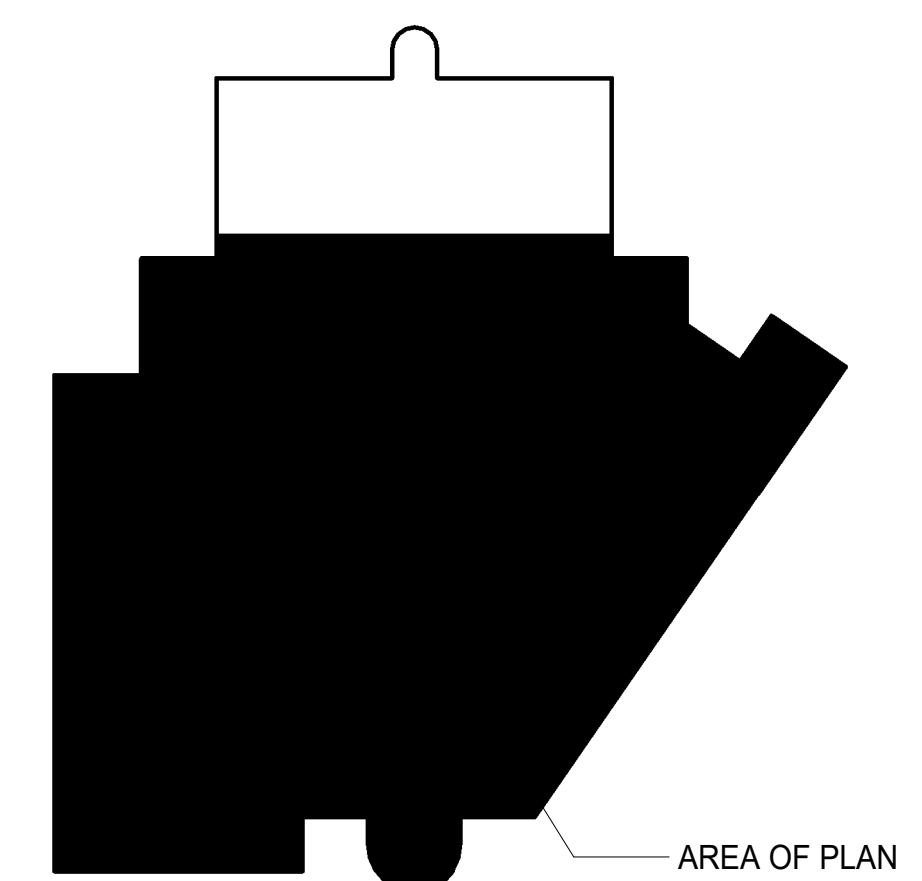
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SCALE: As indicated

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FIRE ALARM 01 LEVEL DEMOLITION PLAN

FA102



02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"

A. FOR FIRE ALARM SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING F001.

- KEYED NOTES:** 

1. EXISTING FIRE ALARM DEVICES TO REMAIN IN-PLACE. PROTECT DURING CONSTRUCTION.



02 | **KEYPLAN**
SCALE: 3/64" = 1'-0"

SCALE: $3/64" = 1'-0"$

— AREA OF PLAN

FA103

A. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING FA001.

- KEYED NOTES:**

- SHINBERG.LEVINAS

**ANJUMAN-E-EZZI
MASJID**

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CIVIL ENGINEER

GEOTECHNICAL ENGINEER

STRUCTURAL ENGINEER

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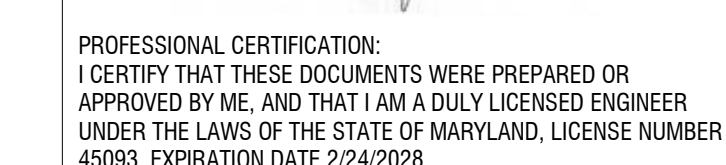
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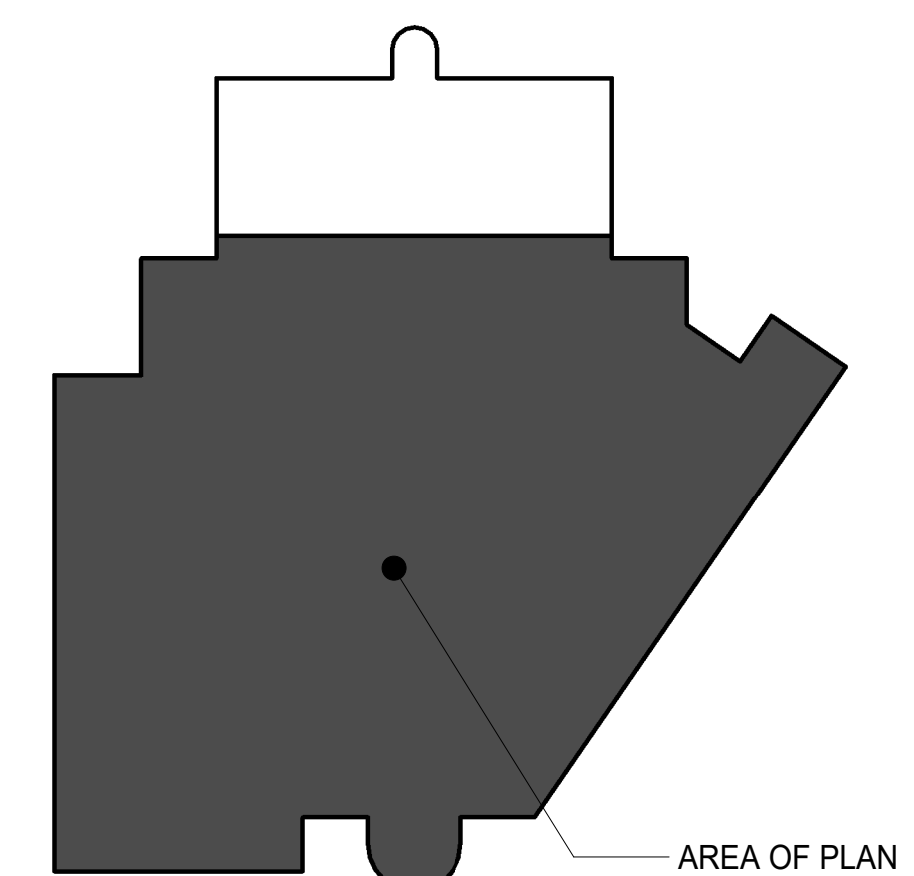
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SCALE:	As indicated
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FIRE ALARM 00 LEVEL
NEW WORK PLAN

FA201



02 | KEYPLAN
SCALE: 3/64" = 1'-0"

A. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING FA001.

- KEYED NOTES:** 

- SHINBERG.LEVINAS

**ANJUMAN-E-EZZI
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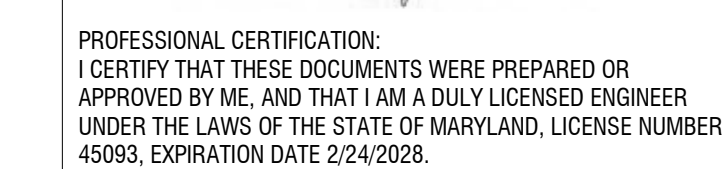
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SCALE:	As indicated

FIRE ALARM 01 LEVEL NEW WORK PLAN

EA202

TAZU2



01 | 01 LEVEL NEW WORK PLAN
SCALE: 1/4" = 1'-0"

SCALE: $1/4 = 1.5$

02 | **KEYPLAN**
SCALE: 3/8" = 1'-0"

SCALE: 3/04 = 1.0

A. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING FA001.

- KEYED NOTES:**

- SHINBERG.LEVINAS

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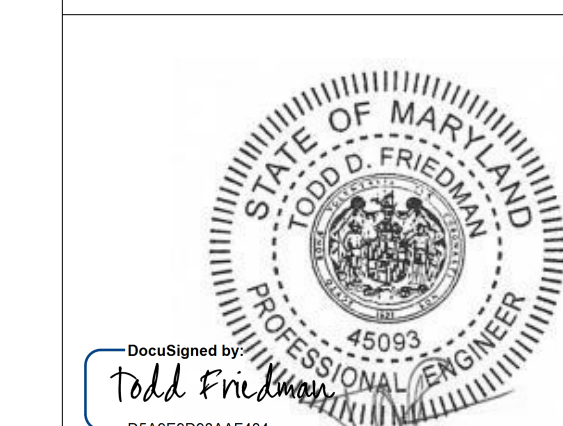
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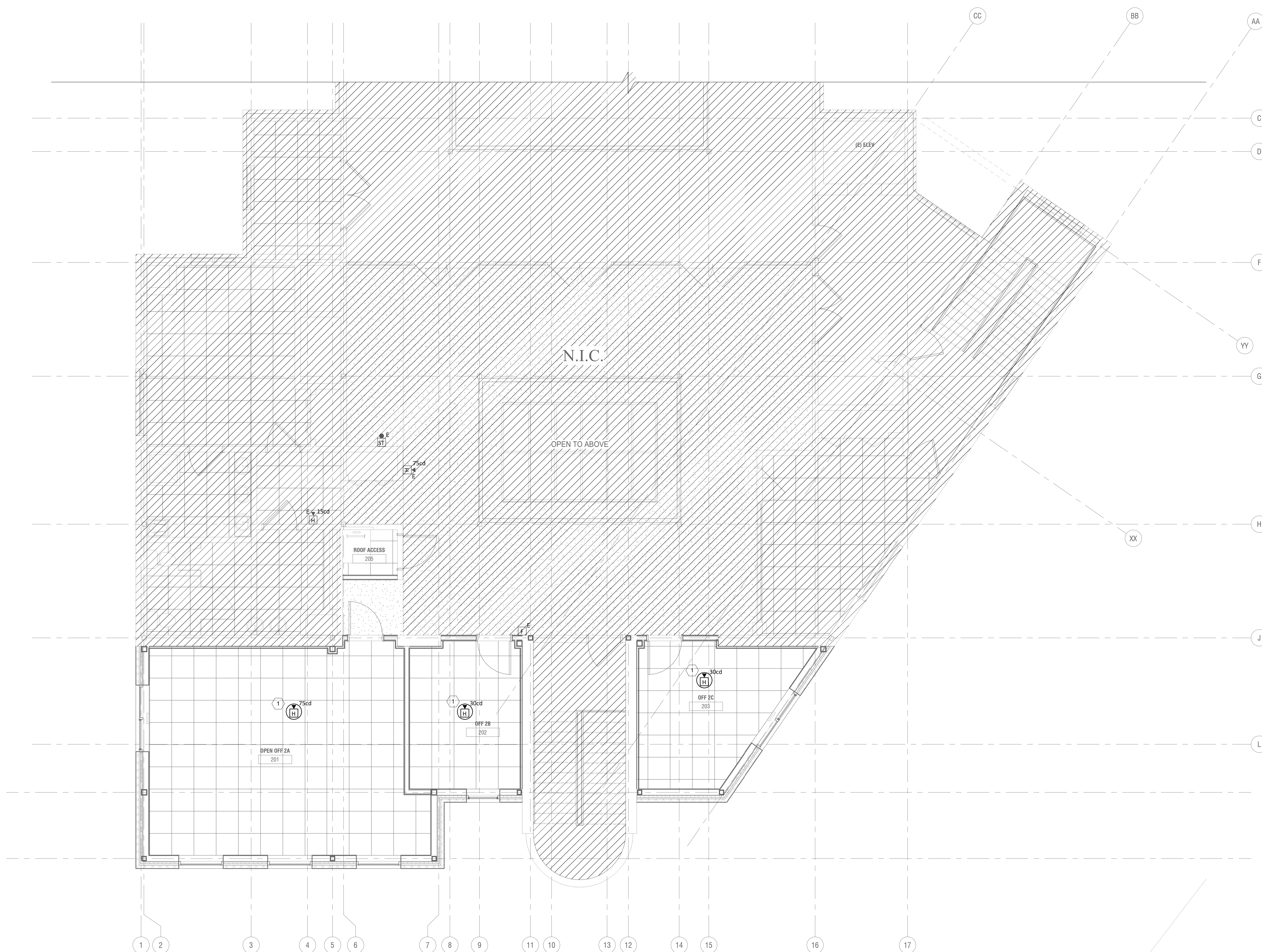
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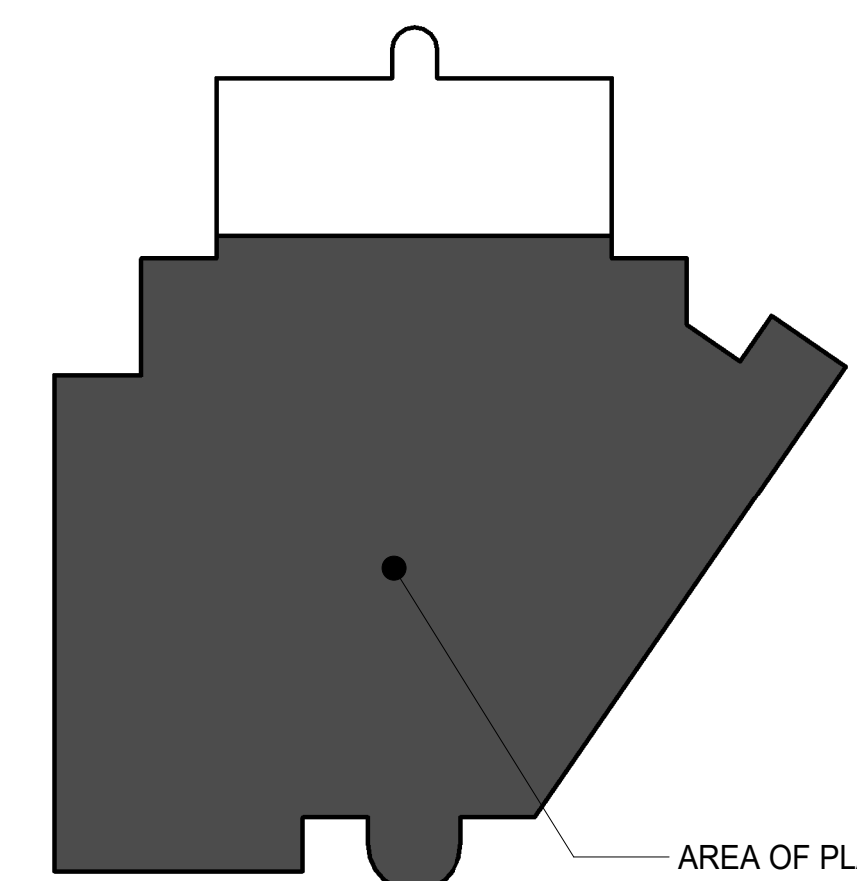
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FIRE ALARM 02 LEVEL NEW WORK PLAN

FA203



SCALE: 1/4" = 1'-0"



02 | KEYPLAN

SCALE: 3/64" = 1'-0"