LINETYPES LEGEND:

- NEW
- EXISTING OR BY OTHERS
- DEMOLITION

LIGHTING LEGEND:

- CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'
- CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT)
- STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH.
- WALL-MOUNT SCONCE OR WALL BRACKET LIGHT FIXTURE.
- RECESSED WALL WASH CAN LIGHT FIXTURE.
- RECESSED, SURFACE, OR STEM HUNG LIGHT FIXTURE.
- SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.

NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

POWER LEGEND:

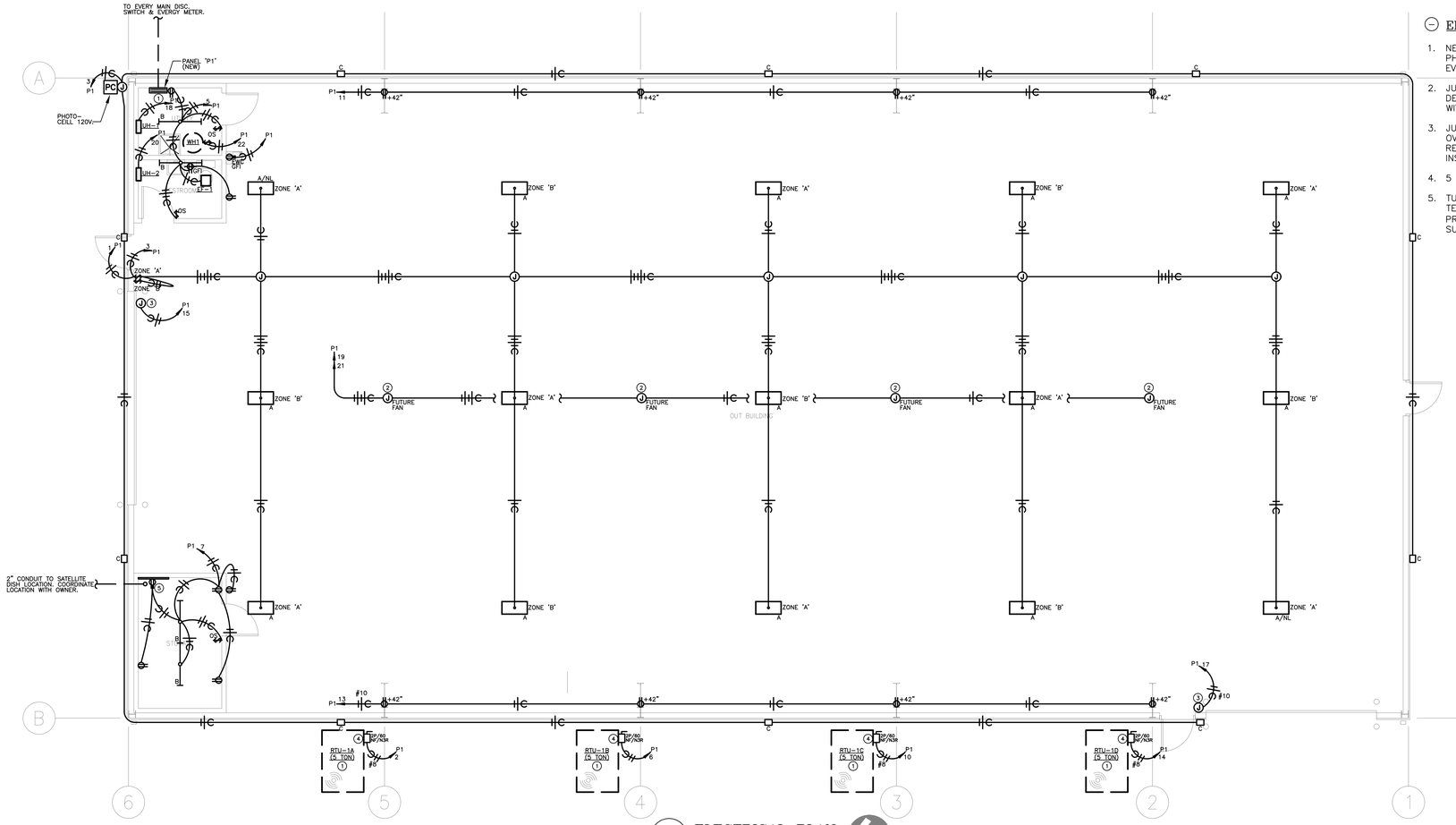
- INDICATES ABOVE COUNTER (TYP)
- DUPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48"AFF (UNO).
- FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
- SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18"AFF TO CENTER OF RECEPTACLE (UNO).
- FOURPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF (UNO)
- FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.
- SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- VOICE OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- DATA OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- COMBO VOICE/DATA OPENING. PROVIDE 3/4" EMT CONDUIT STUB TO ABOVE CEILING FOR FUTURE CABLING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.
- DISCONNECT SWITCH, STARTER, & COMBINATION STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS.
- ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT
- JUNCTION BOX

NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

WIRING LEGEND:

- HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS. WHEN NO WIRING TICK MARKS ARE SHOWN, CONTRACTOR SHALL ASSUME MINIMUM OF (3) #12 CONDUCTORS.
- GROUNDED CONDUCTOR.
- CONDUIT OR CIRCUIT BREAK/CONTINUATION.
- CONDUIT WITH ENDCAP FOR FUTURE USE.
- GROUNDING SOURCE.



1 ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL PLAN NOTES:

1. NEW 400A RESIDENTIAL 120/240V SINGLE PHASE PANEL AND ELECTRICAL SERVICE PER EVERGY STANDARDS.
2. JUNCTION BOX AT STRUCTURE FOR FUTURE DESTRATIFICATION FANS. CONFIRM LOCATIONS WITH OWNER.
3. JUNCTION BOX FOR CONNECTION TO OVERHEAD DOOR OPERATOR. CONFIRM REQUIREMENTS WITH OVERHEAD DOOR INSTALLER.
4. 5 TON GROUND MOUNT ROOF-TOP UNIT.
5. TURN CONDUIT UP IN STORAGE ROOM FOR TELECOM PROVIDER TERMINATION POINT. PROVIDE 2'X4' PLYWOOD ON WALL FOR SUPPORT.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/03/2023 8:14:37

Andrea Sessler
Digitally signed by Andrea Sessler
DN: CN=Andrea Sessler, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2023.10.03 08:16:25-05'00'

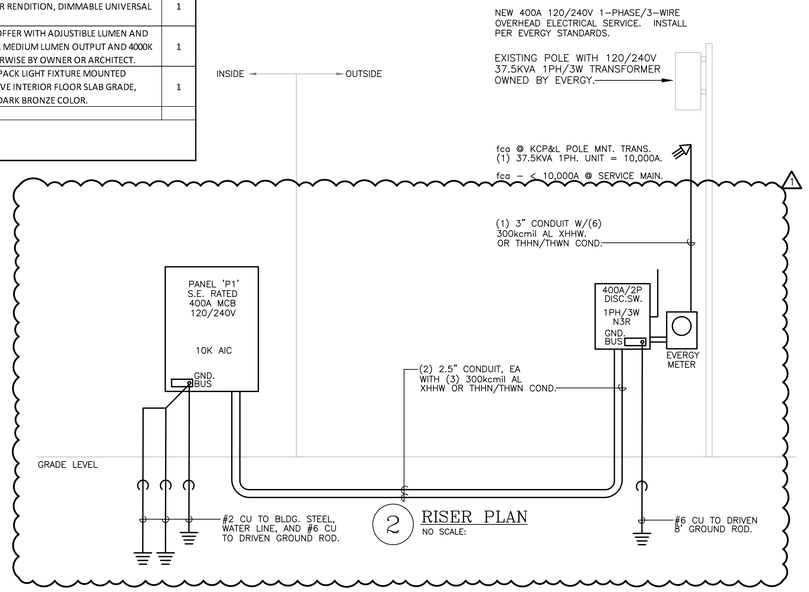
LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LIGHT SOURCE	WATTS	LUMENS	VOLTAGE	DESCRIPTION	NOTES
A	LITHONIA OR EQUAL	IBE-18LM-MVOLT-40K-80CRI	INTEGRAL LED	137	18000	UNIV VOLTAGE	1.5'X2' LED INDUSTRIAL HIGH-BAY LIGHT FIXTURE WITH LED LIGHT SOURCE, 840 COLOR RENDITION, DIMMABLE UNIVERSAL VOLTAGE DRIVER.	1
B	LITHONIA OR EQUAL	CSS-L48-4000LM-MVOLT-40K-80CRI	INTEGRAL LED	36	4000	UNIV VOLTAGE	LED 2'X4' FLAT PANEL TROFFER WITH ADJUSTIBLE LUMEN AND COLOR OUTPUT. SET FOR MEDIUM LUMEN OUTPUT AND 4000K UNLESS INDICATED OTHERWISE BY OWNER OR ARCHITECT.	1
C	LITHONIA OR EQUAL	KAXW-LED-P3-40K-R4-MVOLT-DDBXD	INTEGRAL LED	79	9000	UNIV VOLTAGE	FULL CUT-OFF LED WALL PACK LIGHT FIXTURE MOUNTED APPROXIMATELY 15' ABOVE INTERIOR FLOOR SLAB GRADE, WITH 120V DRIVER AND DARK BRONZE COLOR.	1

NOTES:
1. COORDINATE ALL LIGHT FIXTURE SELECTIONS AND/OR SUBSTITUTIONS WITH OWNER PRIOR TO RELEASE.

ABBREVIATIONS LEGEND:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ED	EXISTING TO BE DEMOLISHED
EM	EMERGENCY
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
GFCI	GROUND FAULT CURRENT INTERRUPTER
NL	NIGHT LIGHT
TR	TAMPER RESISTANT
UNO	UNLESS NOTED OTHERWISE
USB	RECEPTACLE TO HAVE (2) USB CHARGING PORTS
WP/GFI	WEATHER PROTECTED 'IN-USE' COVER / GFCI



2 RISER PLAN
NO SCALE:

PANEL NAME	400 AMP MCB				SUB-FEED LUGS		100%	NEUTRAL		
P1	120/240 VOLT				FEED-THRU LUGS			IG BUS		
LOCATION	1 PHASI 3 WIRE				X SERVICE ENTRANCE		10K	AIC		
UTILITY ROOM										

CIR NO.	CIRCUIT DESCRIPTION	CIRC BRKR AMPS	POLE	WIRE SIZE	LOAD VA	CIR NO.	CIRCUIT DESCRIPTION	CIRC. BRKR AMPS	POLE	WIRE SIZE	LOAD VA
1	LIGHTING	20	1		1,000	2	ROOT TOP UNIT 'RTU-1A'	60	2	#8	3,750
3	LIGHTING	20	1		1,000	4	-	-	-		3,750
5	RECEPT./LIGHTS	20	1		820	6	ROOT TOP UNIT 'RTU-1B'	60	2	#8	3,750
7	RECEPT./LIGHTS	20	1		820	8	-	-	-		3,750
9	RECEPTACLE(EWC)	20	1		180	10	ROOT TOP UNIT 'RTU-1C'	60	2	#8	3,750
11	RECEPTACLES (EAST SID	20	1		720	12	-	-	-		3,750
13	RECEPTACLES (WEST SIE	20	1		720	14	ROOT TOP UNIT 'RTU-1D'	60	2	#8	3,750
15	OVERHEAD DOOR - NORT	20	1		1,200	16	-	-	-		3,750
17	OVERHEAD DOOR - SOUT	20	1		1,200	18	UNIT HEATER 'UH-1'	20	1		1,800
19	CEILING FANS (FUTURE)	20	1			20	UNIT HEATER 'UH-2'	20	1		1,800
21	CEILING FANS (FUTURE)	20	1			22	WATER HEATER 'WH-1' 1500 WATT/120V	20	1		1,500
23	LIGHTING - EXTERIOR	20	1			24	SPARE	20	1		
25	SPARE	20	1			26	SPARE	20	1		
27	SPARE	20	1			28	SPARE	20	1		
29	SPARE	20	1			30	SPARE	20	1		
31	SPARE	20	1			32	SPARE	20	1		
33	SPACE ONLY					34	SPACE ONLY				
35	SPACE ONLY					36	SPACE ONLY				
37	SPACE ONLY					38	SPACE ONLY				
39	SPACE ONLY					40	SPACE ONLY				
41	SPACE ONLY					42	SPACE ONLY				

TOTAL CONNECTED LOAD (VA): 42,760
DEMAND LOADS
LIGHTS: 2,200 HEAT: 4,080
RECEPTS: 2,880 COOLING: 30,000
MOTORS: 2,580 APPLIANCE:
TOTAL DEMAND (VA): 41,740 TOTAL DEMAND (AMP): 173.9

X	SURFACE MOUNTED	
	FLUSH MOUNTED	

STATE OF MISSOURI
THOMAS JOSEPH ELLIS JR.
NUMBER E-2001011619
REGISTERED PROFESSIONAL ENGINEER
09/29/2023
THOMAS J. ELLIS JR.
MO LICENSE # E-2001011619

New Recreation Bldg. for:
Monheiser Residence
2620 SOUTHEAST RANSOM ROAD
LEE'S SUMMIT, MO

ISSUE	DATE
PERMIT & CONST.	05/04/2023
⚠1 MISC. REVISIONS	09/29/2023

SHEET TITLE
ELECTRICAL PLAN

DRAWN BY	TJE
CHECKED BY	TJE
DATE	05/04/2023
PROJ. NO.	2023054

SHEET NO.
E100