

	MAIN DISTRIBUTION CENTER
	PANELBOARD
	ELECTRIC SERVICE METER
	CURRENT TRANSFORMER
	TRANSFORMER
	CONCEALED CIRCUIT
	UNDERFLOOR / UNDERGROUND CIRCUIT
	EXPOSED CIRCUIT
	WIREMOLD (SURFACE WIREWAY)
	PLUGMOLD
	HOME RUN TO PANELBOARD (ONE ARROW / CKT, PNL & CKT #S SHOWN)
	CIRCUIT NUMBER(S) FOR SPECIFIED PANEL
	CONDUIT TURNS UP
	CONDUIT TURNS DOWN
	JUNCTION BOX / CARD READER
	PORCELAIN LAMP HOLDER (P.C. PULL CHAIN)
	LIGHT FIXTURE: SURFACE MOUNTED
	RECESSED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	EXIT LIGHT: DIRECTIONAL ARROW
	BATTERY PACK
	SURFACE FLUORESCENT FIXTURE
	RECESSED FLUORESCENT FIXTURE
	SINGLE OUTLET: G-CLOCK (-70°)
	DUPLEX RECEPTACLE (G): ISOLATED GROUND
	CEILING DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - GFCI
	DUPLEX RECEPTACLE - GFCI BREAKER
	DUPLEX RECEPTACLE - TAMPER RESISTANT
	SPLIT WIRE DUPLEX
	QUADRAPLEX (DOUBLE DUPLEX)
	COMB. SWITCH / RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SPECIAL PURPOSE (AS NOTED)
	TELEVISION OUTLET
	MOTOR OUTLET
	etc - switched thermal overload
	TELEPHONE TERMINAL
	TELEPHONE OUTLET
	FLOOR MTD. TELEPHONE OUTLET
	COMPUTER OUTLET
	COMB. TELE/COMPUTER OUTLET
	TOGGLE SWITCH
	3-way switch - pilot light
	2-2 pole - l-keyed
	3-3 way - to thermal overload
	4-4 way - t-trmer
	WALL MOUNTED LIGHTING CONTROL DEVICE RELIGHTING CONTROL DEVICE SCHEDULE
	CEILING MOUNTED LIGHTING CONTROL DEVICE RELIGHTING CONTROL DEVICE SCHEDULE
	THERMOSTAT
	TIME SWITCH
	PHOTOCELL
	PUSH-BUTTON STATION
	SAFETY SWITCH
	MOTOR STARTER / LIGHTING CONTACTOR
	COMBINATION MOTOR STARTER
	RELAY
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	PULL STATION
	HORN
	HORN / LIGHT COMBINATION
	HORN / STROBE
	STROBE
	BELL
	OS & Y VALVE
	FLOW SWITCH
	ROOM DETECTOR (SMOKE)
	ROOM DETECTOR (THERMAL)
	DUCT DETECTOR
	REMOTE INDICATING LIGHT / TEST SWITCH
	DOOR HOLDER
	CHIME
	FUSED SWITCH
	CIRCUIT BREAKER
	GROUND CONNECTOR
	MECHANICAL EQUIPMENT
	DETAIL NOTE
	KITCHEN / MEDICAL EQUIPMENT
	EXISTING TO REMAIN
	EXISTING TO BE RELOCATED
	EXISTING TO BE DEMOLISHED

KEY	DESCRIPTION	LOAD	VOLT	CIRCUIT	CONNECTION	REMARKS
FU 2	GAS FIRE FURNACE	6.8 A	120/1	(2-#12, #12G) 1/2"C	THERMAL O.L.	
CU 2	CONDENSING UNIT	15 MCA	240/1	(2-#12, #12G) 1/2"C	3/0"2, 15 FRN	
BH 1	ELECTRIC BASEBOARD HEATER	750 W	240/1	(2-#12, #12G) 1/2"C	3/0"2, NF	
EF 1	CEILING EXHAUST FAN	11 W	120/1	(2-#12, #12G) 1/2"C	THERMAL O.L.	
EF 2	KITCHEN EXHAUST FAN	9.9 W	120/1	(2-#12, #12G) 1/2"C	THERMAL O.L.	

NOTES: *TEMPERATURE RATING OF ALL DEVICES COULD NOT BE VERIFIED, THEREFORE WIRE IS SIZED BASED ON 90C PER NEC 110.14(C)(1)(a)
 *COORDINATE ALL ROUGH-IN HEIGHTS AND LOCATIONS WITH KITCHEN VENDOR AND/OR OWNER.

KEY	LAMP	DESCRIPTION	CEILING (DEPTH)	MANUFACTURER/#	VOLT
RA	T8D	UNIT DOWNLIGHT	RECESSED	T8D	120
RB	T8D	UNIT VANITY	WALL	T8D	120
RC	T8D	UNIT CLOSET / STORAGE LIGHT	SURFACE	T8D	120
RD	T8D	UNIT PENDANT - KITCHEN	SUSPENDED	T8D	120
RE	T8D	UNIT PENDANT - LIVING ROOM	SUSPENDED	T8D	120
RF	T8D	UNIT WALL WASH	RECESSED	T8D	120
RG	T8D	UNIT TRACK FIXTURE W/ 1/2-AMP CURRENT LIMITING DEVICE	SURFACE	T8D	120
RH	T8D	UNIT BEDROOM DOWNLIGHT	SURFACE	T8D	120

NOTES:
 *NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING
 *VERIFY CEILING INSULATION W/ GC AND NOTIFY ENGINEER OF ANY IC RATING CONFLICTS PRIOR TO ORDERING

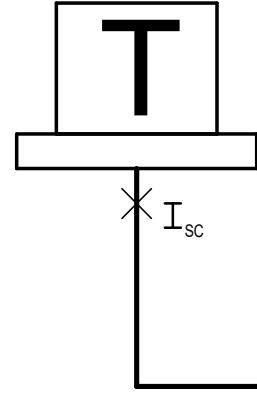
SUPPLY FROM: METER STACKS				VOLTS: 120/240 Single				A.I.C. RATING: 22k AIC											
MOUNTING: SURFACE				PHASES: 1				MAINS TYPE: MLO											
ENCLOSURE: NEMA 3R				WIRES: 3				MAINS RATINGS: 150 A											
CIRCUIT DESCRIPTION		O	TRIP	P	BT	A	B		BT	P	TRIP	LT	CIRCUIT DESCRIPTION						
HEAT TRACE		O	20	1	G 1	1712	--	2	1	--	--	--	SPACE						
HEAT TRACE		O	20	1	G 3	--	1712	--	4	1	--	--	SPACE						
HEAT TRACE		O	20	1	G 5	1712	--	6	1	--	--	--	SPACE						
HEAT TRACE		O	20	1	G 7	--	1712	--	8	1	--	--	SPACE						
HEAT TRACE		O	20	1	G 9	1712	--	10	1	--	--	--	SPACE						
HEAT TRACE		O	20	1	G 11	--	1712	--	12	1	--	--	SPACE						
HEAT TRACE		O	20	1	G 13	1712	--	14	1	--	--	--	SPACE						
WATER ENTRY SPACE HEATER		O	20	1	S 15	--	600	--	16	1	--	--	SPACE						
SPARE		--	20	1	G 17	0	--	18	1	--	--	--	SPACE						
IRRIGATION CONTROL		R	20	1	S 19	--	400	--	20	1	--	--	SPACE						
SPARE		--	20	1	S 21	0	--	22	1	--	--	--	SPACE						
FACP		R	20	1	S.L 23	--	400	--	24	1	--	--	SPACE						
SPARE		--	20	1	S 25	0	--	26	1	--	--	--	SPACE						
SPACE		--	--	1	27	--	--	28	1	--	--	--	SPACE						
SPACE		--	--	1	29	--	--	30	1	--	--	--	SPACE						
TOTAL LOAD:						6.85 kVA	6.54 kVA												
TOTAL AMPS:						57 A	54 A												
LOAD TYPE		CONN/LOAD	DEMAND FACT.	EST. DEMAND		BREAKER TYPE		PANEL TOTALS											
LIGHTING / EV -	L	0 kVA	0%	0 kVA		SHUNT TRIP -		ST	TOTAL CONN. LOAD: 13.36 kVA TOTAL EST. DEMAND: 13.36 kVA TOTAL CONN. 56 A TOTAL EST. DEMAND: 56 A										
RECEPTACLE -	R	0.8 kVA	100%	0.8 kVA		GFCI -		G											
MOTOR -	M	0 kVA	0%	0 kVA		HANDLE BLOCK -		H											
KITCHEN -	K	0 kVA	0%	0 kVA		HANDLE TIE -		T											
OTHER -	O	12.55 kVA	100%	12.55 kVA		AFCI -		A											
EXISTING -	E	0 kVA	0%	0 kVA		STANDARD -		S											
NEC-220.84									LOCKOUT -					L					

Total square footage		2,475	
(1) Appliance and Laundry Circuits			
2	Appliance Circuits	@ 1,500 VA	= 3,000 VA
1	Laundry Circuits	@ 1,500 VA	= 1,500 VA
SUB-TOTAL			= 4,500 VA
(2) Gen Lighting and Gen Use Receptacles			
2,475	Sq Ft @ 3 Watts/sq ft		= 7,425 VA
(3) Appliances			
1	Clothes Dryer	@ 5,000 VA	= 5,000 VA
1	Range	@ 8,000 VA	= 8,000 VA
1	Dishwasher	@ 1,200 VA	= 1,200 VA
1	Disposer	@ 1,180 VA	= 1,180 VA
1	Hybrid Water Heater	@ 7,200 VA	= 7,200 VA
1	Range Hood/ Microwave	@ 1,200 VA	= 1,200 VA
1	Refrigerator/Freezer	@ 500 VA	= 500 VA
1	EV Charger, 240V	@ 7,680 VA	= 7,680 VA
5	Bath Exhaust Fan	@ 50 VA	= 250 VA
SUB-TOTAL			= 32,210 VA
(4) Other Motor or Low P. F. Loads			
1	Garage Door openers	@ 1,100 VA	= 1,100 VA
1	Crawl-space EF	@ 108 VA	= 108 VA
1	Elevator	@ 5,760 VA	= 5,760 VA
SUB-TOTAL			= 6,968 VA
(5) Total of 'General' Loads [(1)+(2)+(3)+(4)]			
			= 51,103 VA
Firm	10,000	41/103 @ 100%	= 10,000 VA
Remainder		@ 40%	= 16,441 VA
SUB-TOTAL			= 26,441 VA
(C) Plus 100% Larger of Heating/Cooling Load			
2	Furnace	@ 1,200 VA	= 2,400 VA
1	2 Tons	@ 2,630 VA	= 2,630 VA
1	2.5 Tons	@ 3,360 VA	= 3,360 VA
SUB-TOTAL			= 8,390 VA
TOTAL OF ALL LOADS			
'Other' Loads			= 26,441 VA
Heating / Cooling Load			= 8,390 VA
GRAND TOTAL			= 34,831 VA
			(@240/1) 1451 A

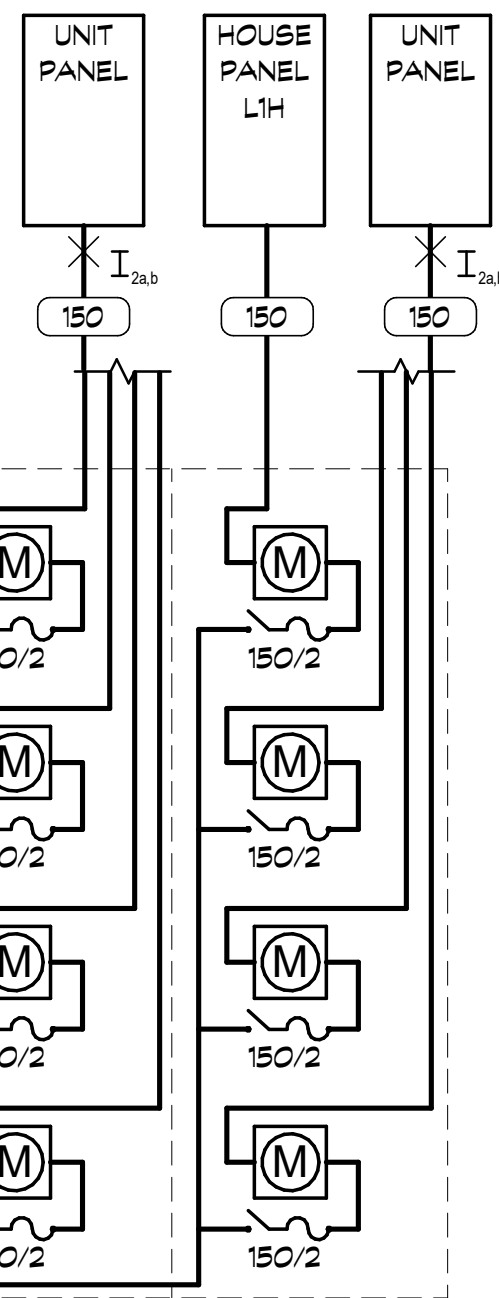
VOLT: 120/240 Single		PHASE: 1	WIR: 3
NOTE: ALL EXISTING METER CALCULATED AT 125% PER NEC 220.87			
CKT	CIRCUIT DESCRIPTION	LOAD	AMPS
1	ND	176.8 kVA	738.5 A
2	LTH	13.4 kVA	55.5 A
3			
4			
TOTAL CONNECTED: 190.2 kVA			
LOAD TYPE	CONN. LOAD	DEMAND FACT.	EST. DEMAND
LIGHTING / EV - L	0 kVA	0%	0 kVA
RECEPTACLE - R	0.8 kVA	100%	0.8 kVA
MOTOR - M	0 kVA	0%	0 kVA
KITCHEN - K	0 kVA	0%	0 kVA
OTHER - O	12.55 kVA	100%	12.55 kVA
EXISTING - E	0 kVA	0%	0 kVA
NEC-220.84- NC	0 kVA	0%	0 kVA
TOTAL DEMAND:		190.2 kVA	793 A

150	(3-3/0 AL, #6 CU G)2'C
800A	3[(3-400MCM AL)4'C] (2/0 CU)3/4'C TO BLDG STEEL, COLD WATER PIPE, CONCRETE ENCASED
G	ELECTRODE; 2[(#6CU)1/2'C] TO DRIVEN; GROUND RODS NOT LESS THAN 6'0 APART

TRANSFORMER BY UTILITY CO. PAD
BY EC. COORDINATE INSTALL
DETAILS WITH UTILITY CO.



ISC	LOADCENTER: 120/240V, 1Ø, 150 MLO 3Ø
FAULT	POLE, AIC RATING PER SHORT CIRCUIT
4807	CALCULATION. NO HALF WIDTH
9927	BREAKERS ALLOWED. SEE PLANS FOR
	LOCATIONS.



METER STACK: 120/240V, 1Ø, 3W, 800A
BUSSES, NEMA 3R, 65,000AIC, GND BUS

NTS

1

**REVIEWED
FOR
CODE
COMPLIANCE**
01/27/2025

[illegible]

1	10.18.23	ISSUED FOR PERMIT
Issued to	Date	Description

OWNER

MAY RIEGLER PROPERTIES
2201 WISCONSIN AVE NW
SUITE 200
WASHINGTON, DC 20007

K	A	S	A
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KEVIN & ASAKO SPERRY ARCHITECTURE
3318 N. Columbus Street
Arlington, VA 22207
T.312.636.3248 / 312.636.4252
www.kasa-arch.com

GENERAL CONTRACTOR

CIVIL ENGINEER

141 9TH STREET
PO BOX 774943
STEAMBOAT SPRINGS, CO 80477

LANDSCAPE ARCHITECT

677 25 ROAD
GRAND JUNCTION, CO 81505

STRUCTURAL ENGINEER

430 YAMPA STREET
STEAMBOAT SPRINGS, CO 80487

M.E.P. & F.P. ENGINEERS

1717 15TH STREET
BOULDER, CO 80302

INTERIOR DESIGNER:

PROJECT LOCATION

1950 CURVE COURT
STEAMBOAT SPRINGS, CO 80487
WING TITLE

ELECTRICAL DETAILS & SCHEDULES

SEAR



DATE:

01.16.2025

DRAWN BY:

GU

CHECKED BY

MV

DRAWING NO:

E0401-TH1