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FULLER STATION HOUSING

PERMIT SET DOCUMENTS

9608 SE Fuller Road
Clackamas County, Oregon, 97086



PERMIT SET

PROJECT #: 1617.00

SHEET ISSUE DATE: 01/31/2020

REVISIONS:

#	DESCRIPTION	DATE
1	COUNTY REVIEW	10.09.2020
2	RESPONSES	
6	ADDENDUM #1	10.09.2020
	ASI #01	03.05.2021
	RFI #2	07.20.2021
	RFI #8	08.10.2021
	RFI #2	09.10.2021
	RFI #2	09.30.2021
15	ASI #10	11.05.2021
	RFI #48	11.18.2021
	RFI #50	11.18.2021
	RFI #54	11.18.2021
	RFI #55	11.18.2021
	RFI #12	12.06.2021

ELECTRICAL SCHEDULES

E1.14

DWELLING UNIT LOAD CALCULATION									
Project: Fuller Apartments									
Unit Type: 1Bed (Typical)									
Area: 550 square feet(average)									
Minimum Size Feeder (NEC 220.40):									
General lighting load at 3 VA / SF						1,650 VA			
Small Appliance load (2 ckt at 1500VA each)						3,000 VA			
Laundry Load (1 ckt at 1500VA)						0 VA			
Electric Range						8,500 VA			
Other Cooking Appliance Load (Microwave Oven)						1,500 VA			
Dishwasher Load						1,200 VA			
Electric Dryer Load						0 VA			
Electric Water Heater Load						0 VA			
Disposal load						900 VA			
Other motor loads						0 VA			
Total "General Loads"						16,750 VA			
First 10 kVA of "general loads" at 100%						10,000 VA			
Remainder of "general loads" at 40%						2,700 VA			
Net "general load"						12,700 VA			
Largest of:						3,500 VA of electric space heating (less than 4) at 65%			
-or-						VA of electric space heating (4 or more) at 40%			
-or-						VA of air conditioning/cooling/heat pumps at 100%			
TOTAL LOAD						14,975 VA			
For 120/208-volt, 3-wire, single-phase service or feeder,						14,975 VA / 208 volts =			
						62 Amps			
Therefore, this dwelling unit shall be permitted to be served by a						100 amp service.			

DWELLING UNIT LOAD CALCULATION					
Project: Fuller Apartments					
Unit Type: 2Bed (Typical)					
Area:		875	square feet(average)		
Minimum Size Feeder (NEC 220.40):					
General lighting load at 3 VA / SF			2,625	VA	
Small Appliance load (2 ckt at 1500VA each)			3,000	VA	
Laundry Load (1 ckt at 1500VA)			0	VA	
Electric Range			8,500	VA	
Other Cooking Appliance Load (Microwave Oven)			1,500	VA	
Dishwasher Load			1,200	VA	
Electric Dryer Load			0	VA	
Electric Water Heater Load			0	VA	
Disposal load			900	VA	
Other motor loads			0	VA	
Total "General Loads"			17,725	VA	
First 10 kVA of "general loads" at 100%			10,000	VA	
Remainder of "general loads" at 40%			3,090	VA	
Net "general load"			13,090	VA	
Largest of:		5,000	VA of electric space heating (less than 4) at 65%	3,250	VA
-or-			VA of electric space heating (4 or more) at 40%	0	VA
-or-			VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD			16,340	VA	
For 120/208-volt, 3-wire, single-phase service or feeder,					
16,340 VA / 208 volts =				68	Amps
Therefore, this dwelling unit shall be permitted to be served by a				100	amp service.

DWELLING UNIT LOAD CALCULATION					
Project: Fuller Apartments					
Unit Type: 3 Bed (Typical)					
Area:		1,000	square feet (average)		
Minimum Size Feeder (NEC 220.40):					
General lighting load at 3 VA / SF				3,000	VA
Small Appliance load (2 ckt at 1500VA each)				3,000	VA
Laundry Load (1 ckt at 1500VA)				1,500	VA
Electric Range				8,500	VA
Other Cooking Appliance Load (Microwave Oven)				1,500	VA
Dishwasher Load				1,200	VA
Electric Dryer Load				3,500	VA
Electric Water Heater Load				0	VA
Disposal load				800	VA
Other motor loads				0	VA
Total "General Loads"				23,000	VA
First 10 kVA of "general loads" at 100%				10,000	VA
Remainder of "general loads" at 40%				5,200	VA
Net "general load"				15,200	VA
Largest of:					
			VA of electric space heating (less than 4) at 65%	0	VA
-or-	6,500		VA of electric space heating (4 or more) at 40%	2,600	VA
-or-			VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD				17,800	VA
For 120/208-volt, 3-wire, single-phase service or feeder,					
17,800 VA / 208 volts =				74	Amps
Therefore, this dwelling unit shall be permitted to be served by a				100	amp service.

MFIA CIRCUIT DIRECTORY									
Loadcenter Name		mounting		location		08-Dec-21			
LC-1BR/1BA (TYPICAL)		RECESSED							
voltage		phase		bus & main					
208/120		1		100A MLO		(SCCR: 22K)			
service		a/p	no.	L1	L2	no.	a/p	service	
LIGHTS-KITCHEN/LIVING		201(A)	1	*	2	201(A)	APPLIANCE CIRCUIT		
LTS & PLUGS - BATH		201	3	*	4	201(A)	APPLIANCE CIRCUIT		
LTS - BEDROOMS		201(A)	5	*	6	201	REFRIGERATOR		
SPARE		201	7	*	8	201	HOOD		
RECEPTACLES		201(A)	9	*	10	50/2	RANGE		
RECEPTACLES		201(A)	11	*	12	*			
RECEPTACLES		201(A)	13	*	14	201	DISHWASHER		
SMART PANEL (OPT)		201	15	*	16	201	DISPOSAL		
SPARE		201	17	*	18	202	HEAT		
SPARE		201	19	*	20	*			
SPARE		201	21	*	22	202	HEAT		
SPARE		201	23	*	24	*			
SPARE		201	25	*	26	201	SPARE		
SPARE		201	27	*	28	---	BLANK		
SPARE		201	29	*	30	---	BLANK		
NOTES:									
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12.									
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".									
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.									
4. (G) DENOTES GFCI RATED BREAKER.									

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