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CEDAR CREEK

CVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



DWG _____
drawn by _____
TVO _____
checked by _____
JANUARY 2026 _____
date _____

REVISIONS

Δ	DESCRIPTION	DATE



WAYLAND BONDS
2025 HVAC

sheet no:

E601

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Branch Panel: L1													
Location:			Volts: 120/208 Wye			A.I.C. Rating: EXISTING			Enclosure: Type 1				
Supply From:			Phases: 3			Enclosure: Type 1			Mains: 400A MLO				
Mounting: Surface			Wires: 4			Mains: 400A MLO			Phase in kVA				
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note	
--	1	EXISTING	--	20	1	24.8 / 0.0		1	20	--	2	--	
--	3	EXISTING	--	20	1		21.1 / 0.0	1	20	--	4	--	
--	5	EXISTING	--	20	1			25.0 / 0.0	1	20	--	6	--
--	7	EXISTING	--	20	1	0.0 / 0.0			1	20	--	8	--
--	9	EXISTING	--	20	1		0.0 / 0.0		1	20	--	10	--
--	11	EXISTING	--	20	1			0.0 / 0.0	1	20	--	12	--
--	13	EXISTING	--	20	1	0.0 / 0.0			1	20	--	14	--
--	15	EXISTING	--	20	1		0.0 / 0.0		1	20	--	16	--
--	17	EXISTING	--	20	1			0.0 / 0.0	1	20	--	18	--
--	19	EXISTING	--	20	1	0.0 / 0.0			1	20	--	20	--
--	21	EXISTING	--	20	1		0.0 / 0.0		1	20	--	22	--
--	23	EXISTING	--	20	1			0.0 / 0.0	1	20	--	24	--
--	25	EXISTING	--	20	1	0.0 / 0.0			1	20	--	26	--
--	27	EXISTING	--	20	1		0.0 / 0.0		1	20	--	28	--
--	29	EXISTING	--	20	1			0.0 / 0.0	1	20	--	30	--
--	31	EXISTING	--	20	1	0.0 / 0.0			1	20	--	32	--
--	33	EXISTING	--	20	1		0.0 / 0.0		1	20	--	34	--
--	35	EXISTING	--	20	1			0.0 / 0.0	1	20	--	36	--
--	37	EXISTING	--	20	1	0.0 / 0.2			1	20	--	38	--
--	39	EXISTING	--	20	1		0.0 / 0.5		1	20	--	40	--
--	41	EXISTING	--	20	1			0.0 / 0.0	1	--	--	42	--
--	43	EXISTING	--	20	1	0.0 / 0.0			1	20	--	44	--
--	45	EXISTING	--	20	1		0.0 / 0.0		1	20	--	46	--
--	47	EXISTING	--	20	1			0.0 / 0.0	1	20	--	48	--
--	49	EXISTING	--	40	2	0.0 / 0.0			1	20	--	50	--
--	51	EXISTING	--	40	2		0.0 / 0.0		1	20	--	52	--
--	53	EXISTING	--	60	2	0.0 / 0.0			1	20	--	54	--
--	55	EXISTING	--	20	1		0.0 / 0.0		1	20	--	56	--
--	57	EXISTING	--	20	1		0.0 / 0.0		1	20	--	58	--
--	59	SPACE	--	--	--			0.0 / 0.0	1	20	--	60	--
--	61	SPACE	--	--	--	0.0 / 0.0			1	20	--	62	--
--	63	SPACE	--	--	--		0.0 / 0.0		1	20	--	64	--
--	65	EXISTING	--	20	1			0.0 / 0.0	1	20	--	66	--
--	67	EXISTING	--	20	1	0.0 / 0.0			1	20	--	68	--
--	69	EXISTING	--	20	1		0.0 / 0.0		1	--	--	70	--
--	71	EXISTING	--	20	1			0.0 / 0.0	1	--	--	72	--
--	73	EXISTING	--	20	1	0.0 / 0.0			1	--	--	74	--
--	75	EXISTING	--	20	1		0.0 / 0.0		3	30	--	76	--
--	77	EXISTING	--	20	1			0.0 / 0.0	1	--	--	78	--
--	79	EXISTING	--	20	1	0.0 / 0.0			1	--	--	80	--
--	81	EXISTING	--	20	1		0.0 / 0.0		1	--	--	82	--
--	83	EXISTING	--	20	1			0.0 / 0.0	1	--	--	84	--
Total Load:			25.0 kVA	21.6 kVA	25.0 kVA								
Total Amps:			213 A	180 A	213 A								
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Miscellaneous		0.5 kVA	100.00%	0.5 kVA									
Receptacles		0.2 kVA	100.00%	0.2 kVA	Total Conn. Load: 71.6 kVA								
Spare		70.9 kVA	100.00%	70.9 kVA	Total Est. Demand: 71.6 kVA								
					Total Conn. Current: 199 A								
					Total Est. Demand Current: 199 A								
Notes:		Abbreviations:											
EXISTING PANEL		G - PROVIDE GFCI CIRCUIT BREAKER LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE M - PROVIDE METERING DEVICE											

Branch Panel: MSWB												
Location:			Volts: 277/480 Wye			A.I.C. Rating: EXISTING			Enclosure: Type 1			
Supply From:			Phases: 3			Enclosure: Type 1			Mains: 1600A			
Mounting: Surface			Wires: 4			Mains: 1600A			Phase in kVA			
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
--	1	EXISTING	--	200	3	32.8 / 76.7						
--	3	EXISTING PANEL EH	--	200	3		29.2 / 77.3					
--	5		--	200	3			28.7 / 77.3				
--	7		--	200	3							
--	9	EXISTING XFMR TX1	--	300	3	55.0 / 113.5	55.8 / 109.3					
--	11		--	300	3			60.0 / 109.8				
--	13		--	300	3							
--	15	H2	--	600	3	84.4 / 44.0	87.2 / 44.0					
--	17		--	600	3			84.6 / 44.0				
Total Load:					406.4 kVA	402.8 kVA	404.4 kVA					
Total Amps:					1468 A	1454 A	1461 A					
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals							
HVAC		110.9 kVA	100.00%	110.9 kVA								
Miscellaneous		31.3 kVA	100.00%	31.3 kVA	Total Conn. Load: 1213.6 kVA							
Motor		25.3 kVA	100.00%	25.3 kVA	Total Est. Demand: 1213.6 kVA							
Other		247.0 kVA	100.00%	247.0 kVA	Total Conn. Current: 1460 A							
Spare		799.1 kVA	100.00%	799.1 kVA	Total Est. Demand Current: 1460 A							
Notes:		Abbreviations:										
EXISTING PANEL TOTAL ELECTRICAL LOAD IS BASED ON CALCULATED DEMAND FROM EXISTING PLANS. PEAK LOAD FOR 2025 AS REPORTED BY OG&E TO BE 399 AMPS.		G - PROVIDE GFCI CIRCUIT BREAKER LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE M - PROVIDE METERING DEVICE										

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