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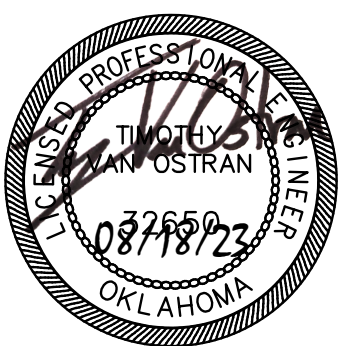
CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



XX

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CLASSROOM ADDITION  
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Salas O'Brien Registration: CA# 7058  
Expiration Date: 6/30/2025  
Salas O'Brien Project Number: 2023-02792-00

| MECHANICAL EQUIPMENT SCHEDULE |                     |            |        |      |      |      |          |                      |                   |                 |                 |
|-------------------------------|---------------------|------------|--------|------|------|------|----------|----------------------|-------------------|-----------------|-----------------|
| CALLOUT                       | DESCRIPTION         | VOLTS      | HP     | KVA  | MCA  | MOCP | CIRCUIT  | WIRE CALLOUT         | DISCONNECT        | DISC<br>PROV BY | DISC INST<br>BY |
| CP-1                          | CIRCULATION PUMP    | 120V 1P 2W | 1/6 HP | 0.53 | 5.5  | 15   | L3-51    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |
| CU-1                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-2,4   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-2                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-6,8   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-3                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-4                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-14,16 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-5                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-18,20 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-6                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-22,24 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-7                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-30,32 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-8                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-26,28 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-9                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-34,36 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-10                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-38,40 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-11                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-41,43 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-12                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-45,47 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-13                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L1-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-14                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L1-14,16 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| EF-1                          | EXHAUST FAN         | 120V 1P 2W | F HP   | 0.1  | 0.6  | 15   | L3-48    | 3/4"C,1#10,#10N,#10G | TOGGLE SWITCH     | MC              | EC              |
| EF-2                          | EXHAUST FAN         | 120V 1P 2W | F HP   | 0.1  | 0.6  | 15   | L1-18    | 3/4"C,1#10,#10N,#10G | TOGGLE SWITCH     | MC              | EC              |
| EFH-1                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-5,7   | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-2                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-23,25 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-3                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 1.15 | 12   | 20   | L3-15,17 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-4                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-37,39 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-5                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L1-2,4   | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| F-1                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-1     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-2                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-3     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-3                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-9     | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-4                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-11    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-5                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-19    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-6                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-13    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-7                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-21    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-8                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-31    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-9                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-27    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-10                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-33    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-11                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-29    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-12                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-35    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-13                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L1-8     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-14                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L1-6     | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| WH-1                          | WATER HEATER        | 120V 1P 2W |        | 0.24 | 2.5  | 20   | L3-53    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |
| WH-2                          | WATER HEATER        | 120V 1P 2W |        | 0.24 | 2.5  | 20   | L3-49    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |

| MECHANICAL EQUIPMENT SCHEDULE |                     |            |        |      |      |      |          |                      |                   |                 |                 |
|-------------------------------|---------------------|------------|--------|------|------|------|----------|----------------------|-------------------|-----------------|-----------------|
| CALLOUT                       | DESCRIPTION         | VOLTS      | HP     | KVA  | MCA  | MOCP | CIRCUIT  | WIRE CALLOUT         | DISCONNECT        | DISC<br>PROV BY | DISC INST<br>BY |
| CP-1                          | CIRCULATION PUMP    | 120V 1P 2W | 1/6 HP | 0.53 | 5.5  | 15   | L3-51    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |
| CU-1                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-2,4   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-2                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-6,8   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-3                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-4                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-14,16 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-5                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-18,20 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-6                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-22,24 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-7                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-30,32 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-8                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-26,28 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-9                          | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-34,36 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-10                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-38,40 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-11                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-41,43 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-12                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-45,47 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-13                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L1-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-14                         | CONDENSING UNIT     | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L1-14,16 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| EF-1                          | EXHAUST FAN         | 120V 1P 2W | F HP   | 0.1  | 0.6  | 15   | L3-48    | 3/4"C,1#10,#10N,#10G | TOGGLE SWITCH     | MC              | EC              |
| EF-2                          | EXHAUST FAN         | 120V 1P 2W | F HP   | 0.1  | 0.6  | 15   | L1-18    | 3/4"C,1#10,#10N,#10G | TOGGLE SWITCH     | MC              | EC              |
| EFH-1                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-5,7   | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-2                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-23,25 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-3                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 1.15 | 12   | 20   | L3-15,17 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-4                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L3-37,39 | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| EFH-5                         | ELECTRIC FAN HEATER | 208V 2P 2W |        | 2    | 12   | 20   | L1-2,4   | 3/4"C,2#10,#10G      | NON-FUSED         | MC              | EC              |
| F-1                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-1     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-2                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-3     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-3                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-9     | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-4                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-11    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-5                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-19    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-6                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-13    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-7                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-21    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-8                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-31    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-9                           | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-27    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-10                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-33    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| F-11                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-29    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-12                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L3-35    | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-13                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L1-8     | 3/4"C,1#10,#10N,#10G | DUPLEX RECEPTACLE | MC              | EC              |
| F-14                          | GAS FURNACE         | 120V 1P 2W | F HP   | 0.1  | 1.03 | 15   | L1-6     | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | MC              | EC              |
| WH-1                          | WATER HEATER        | 120V 1P 2W |        | 0.24 | 2.5  | 20   | L3-53    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |
| WH-2                          | WATER HEATER        | 120V 1P 2W |        | 0.24 | 2.5  | 20   | L3-49    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |

| MECHANICAL EQUIPMENT SCHEDULE |                  |            |        |      |      |      |          |                      |                   |                 |                 |
|-------------------------------|------------------|------------|--------|------|------|------|----------|----------------------|-------------------|-----------------|-----------------|
| CALLOUT                       | DESCRIPTION      | VOLTS      | HP     | KVA  | MCA  | MOCP | CIRCUIT  | WIRE CALLOUT         | DISCONNECT        | DISC<br>PROV BY | DISC INST<br>BY |
| CP-1                          | CIRCULATION PUMP | 120V 1P 2W | 1/6 HP | 0.53 | 5.5  | 15   | L3-51    | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE | EC              | EC              |
| CU-1                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-2,4   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-2                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-6,8   | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-3                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-4                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-14,16 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-5                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-18,20 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-6                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-22,24 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-7                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-30,32 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-8                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-26,28 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-9                          | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-34,36 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-10                         | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-38,40 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-11                         | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-41,43 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-12                         | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L3-45,47 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-13                         | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 | 50   | L1-10,12 | 3/4"C,2#8,#10G       | NON-FUSED         | EC              | EC              |
| CU-14                         | CONDENSING UNIT  | 208V 2P 2W |        | 5.23 | 31.4 |      |          |                      |                   |                 |                 |