MECHANICAL ABBREVIATIONS

MECHANICAL SYMBOLS

GENERAL PROJECT NOTES

WARRANTY

 Ниже приведен текст документа в чистом текстовом формате:

PINS BEHIND ALL GRILLES AND DIFFUSERS. DURING SMOKE/DUST PRODUCING OPERATIONS, SMOKE ALL BLADES ON RETURN GRILLES SHALL BE PARALLEL TO THE WRITING. THE OWNER'S REPRESENTATIVE WILL THEN BE IF HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK PROVISIONAL/PREDICTIVE MAINTENANCE DAMPERS MUST BE INSTALLED AT EACH TAKE-OFF ON ALL FACTORY PAINT OR AN OWNER APPROVED EQUAL. TURNING VANES.

ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. NO EQUIPMENT SHALL SIT DIRECTLY ON THE FLOOR. THE BURDEN OF PROOF OF THE EQUIVALENCE ON THE PRODUCT DATA AND SHOP DRAWING FOR PROPOSED SUBSTITUTIONS SHALL HAVE THE SAME FUNCTIONAL CLEARANCES.

WASTE PIPING ELBOW 90ø SINK P-TRAP FLOOR DRAIN AND COVER BALL VALVE CHECK VALVE UNION SOLENOID VALVE GAS PIPING RELIEF AIR DUCT

WATER SUPPLY FIXTURE UNITS DOMESTIC COLD WATER DOMESTIC HOT WATER REVISION

INTERNATIONAL ENERGY CONSERVATION CODE HEATING, VENTILATION, & AIR CONDITIONING WEIGHT SCHED

WEIGHT

GALLONS PER MINUTE

FT

HP

WATTS

FAHRENHEIT

INVERTER DUTY RATED AND PROVIDED WITH A SHAFT ETC. SHALL BE COMPATIBLE FOR USE WITH A VFD, SHALL BE PROVIDED AT A CHARGE OF $25/SHEET (MINIMUM $250). FOR THE FOLLOWING:

PROTOTYPE: FOR THE FOLLOWING:

SENSIBLE

REDUCED PRESSURE ZONE

HSW

DOMESTIC HOT WATER

DOE

FDC

FSC

EWT

ESP

SHEET METAL AND AIR CONDITIONING

WEIGHT

MISC

PC

NC

MBH

REV

MTL

FAS

SENS

AVG

MOP

BFP

CLG

Y S T E M S

REDUCTION

MOP

REC

INSUL

BAS

BAS

INSULATION

4.00

5000

6000

7500

8000

10000

11320

12500

13760

15000

16000

16900

20000

22000

25000

30000

35000

40000

42000

46000

50000

52000

LAS VEGAS 89102

AMERICAN SOCIETY OF TESTING AND MATERIALS

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC COLD WATER

DOMESTIC HOT WATER
1. REMOVE EXISTING ROOF TOP UNIT. DISCONNECT EXISTING ASSOCIATED DUCT, ELECTRICAL CONTROLS AND GAS PIPING AND TEMPORARILY CAP FOR RE-CONNECTING TO NEW UNIT IN PLACE. REWORK EXISTING DUCTWORK AND GAS PIPING AS REQUIRED FOR CONNECTIONS TO NEW EQUIPMENT. EXISTING CURB TO REMAIN.

**KEY NOTES**

- **RTU (D)**
- **2-1/2"G (E)**
- **3/4"G (E)**
- **1-1/4"G (E)**
- **MAU (E)**
- **EF (E)**
- **1,255 LBS**
- **670 LBS**
- **1,085 LBS**
- **630 LBS**

**EXISTING 4" DRYER VENT**

**EXISTING 4" ABANDONED VENT**

**EXISTING FLUE ROOF ACCESS**

**DATE: 06-05-2024**

**PROJECT #: 24-079**

**CERTIFICATE OF AUTHORIZATION #: CA-1800**
1. REMOVE EXISTING HEAT PUMP AND ALL ASSOCIATED DUCTWORK, PIPING, HANGERS, SUPPORTS AND ACCESSORIES TO EXTENT SHOWN.

2. REMOVE EXISTING CHILLED WATER PIPING AND HUMIDITY DRAIN FROM UNIT AND CAP AS REQUIRED.

3. INSTALL THERMOSTAT 54" ABOVE FINISHED FLOOR. PROVIDE PROTECTIVE PLASTIC, LOCKABLE COVER OVER THERMOSTAT (TYPICAL).

4. REMOVE EXISTING FRESH AIR DUCT TO MAIN LOCATED IN CORRIDOR AND CAP.
1. Install new roof top unit and curb adapter. Contractor shall patch and repair roof as required. Extend and re-connect duct and gas piping. Field verify and transition as needed to reconnect to new unit.

2. Provide new union, 3 inch minimum dirt leg, shut-off valve in gas piping at connection to equipment.

3. Extend new 1" gas piping to existing gas meter. Connect just downstream of gas meter provide new isolation valve at connection to existing.

4. Provide union, 3 inch minimum dirt leg, shut-off valve and pressure regulator in gas piping at connection to equipment. Vent pressure regulator to outside if required. Provide a union on both sides of regulator. Regulator must be installed in horizontal position downstream of dirt leg.

5. Structural engineer Jeffrey S. Payne, P.E. with Intrastucture has reviewed for specified units on existing curbs with new curb adapters in existing locations with no structural modifications. Any alternate units shall be no heavier than the specified units.

6. Install new roof top unit over (2) existing 24K7 joists. Do not install all on the 30KSP joists that is currently carrying the existing make up air unit per structural engineer Jeffrey S. Payne for specified unit. Any alternate unit shall be no heavier than the specified unit.
ALL OTHERS REQUESTING CAD FILES SHALL BE CHARGED $0.00.

SYMBOLS

LIGHT POLES IN ACCORDANCE WITH NEC.

CONDUCTOR TO EQUIPMENT GROUNDING TERMINAL IN PENETRATIONS AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRE NOT SHOWN ON DRAWINGS.

ELECTRICAL SCHEDULES & RISER DIAGRAMS

PENETRATE FIRE-RATED OR SMOKE BARRIER SURFACES, IN PLANTING SHEETS FOR EXACT LOCATIONS AND INDICATED ON PLANS. REFER TO SITE PAVING AND FIRE-RATED WALLS AND FLOORS SHALL BE CAULKED AND INSTALLED.

ANY HOLES IN EXISTING/NEW BEAMS THAT ARE REQUIRED SHALL BE REMOVED THAN SHOWN. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL CONDUIT AND WIRE NOT SHOWN ON DRAWINGS.

REFER TO ELECTRICAL/TELECOM RISER DIAGRAMS FOR TELEVISION PEDESTAL LOCATION.

UNDERGROUND SECONDARY ELECTRICAL SERVICE

REFER TO LOW VOLTAGE ROUGH-IN DETAIL.

UNDERGROUND PRIMARY ELECTRICAL SERVICE

DATA & TELEPHONE RACEWAY

EXISTING/SITE CONDITIONS TO PROVIDE A FULLY PREPARED TO FURNISH/INSTALL ONE-PIECE STEEL MANUFACTURING ASSEMBLIES, SUPPLIES, ETC. PRIOR TO INSTALLATION.

COORDINATE FINAL LOCATIONS OF FIXTURES AND DEVICES SERVE MECHANICAL EQUIPMENT, LOCATE SWITCH ADJACENT TO UNIT. WHERE NO TYPE IS INDICATED, PROVIDE #10 AWG CONDUCTORS AND 1" CONDUIT FOR SITE LIGHT FIXTURE SCHEDULE.

UNDERGROUND SECONDARY ELECTRICAL SERVICE

COORDINATE ALL EQUIPMENT REQUIREMENTS AND LOCATING OF THE CABLES AND EQUIPMENT WILL THEN BE MADE.

DRAWINGS ARE LARGELY SCHEMATIC IN NATURE AND LAWS, ACTS AND ORDINANCES AND ALL AUTHORITIES APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE FOR EXACT LOCATIONS AND INDICATED ON PLANS. REFER TO SITE PAVING AND FIRE-RATED WALLS AND FLOORS SHALL BE CAULKED AND INSTALLED.

EXISTING/SITE CONDITIONS TO PROVIDE A FULLY PREPARED TO FURNISH/INSTALL ONE-PIECE STEEL MANUFACTURING ASSEMBLIES, SUPPLIES, ETC. PRIOR TO INSTALLATION.

ANY HOLES IN EXISTING/NEW BEAMS THAT ARE REQUIRED SHALL BE REMOVED THAN SHOWN. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL CONDUIT AND WIRE NOT SHOWN ON DRAWINGS.

REFER TO ELECTRICAL/TELECOM RISER DIAGRAMS FOR TRANSIENT VOLTAGE SURGE PROTECTION (T.V.S.P.D.), MAGNETIC LOCK, PHOTO CONTROLLER, FIRE ALARM ANNUNCIATOR PANEL, PHOTIC-BARRIER, WATER FLOW SWITCH.

CEILING MOUNT FIRE ALARM FLASHING STROBE LIGHT AT 120" AFF TO BOTTOM OR SPEAKER OR WIREGUARD, BASE OF WALL MOUNT LIGHT FIXTURE - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE.

LIGHT FIXTURE SCHEDULE

CEILING MOUNT OCCUPANT SENSOR - TAG INDICATES SEQUENCE OF OPERATION TAG - REFER TO LIGHTING FIXTURE SCHEDULE.

CEILING MOUNT, DOUBLE FACE EXIT SIGN - ARROW POINTING UP OR DOWN, WALL MOUNT LIGHT FIXTURE - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE.

LIGHT FIXTURE WITH EMERGENCY/LIFE SAFETY MANUFACTURERS' SPECIFICATIONS [RIGID GALVANIZED STEEL CONDUIT]. LIGHT FIXTURE WITH EMERGENCY/LIFE SAFETY MANUFACTURERS' SPECIFICATIONS [RIGID GALVANIZED STEEL CONDUIT].

COORDINATE ALL EQUIPMENT REQUIREMENTS AND LOCATING OF THE CABLES AND EQUIPMENT WILL THEN BE MADE.

BE PERMITTED TO EXPOSE RACEWAYS WILL BE PERMITTED TO EXPOSE RACEWAYS WILL.

PVC EXPOSED RACEWAYS WILL EXPOSE RACEWAYS WILL.

UNSWITCHED CIRCUIT

LOCATION, LOCATING OF THE CABLES AND EQUIPMENT WILL THEN BE MADE.

RECEPTACLE

QUADPLEX RECEPTACLE @18"AFF,
1. CONTRACTOR TO REUSE EXISTING CABLES AND CONDUIT. VERIFY REQUIREMENTS WITH MANUFACTURER AND CHECK CONDITION. REPLACE AS REQUIRED. SEE RISER SHEET E2.1 FOR DETAILS.

2. CONTRACTOR TO DEMO DISCONNECT, WIRE, AND CONDUIT ASSOCIATED WITH HP-22 BACK TO SOURCE. PATCH WALL / CEILINGS PER SPECIFICATIONS.
1. Contractor to terminate existing cables to disconnect and new RTU, following manufacturer's requirement. Field verify and modify or replace fuses, conduit, and cables as needed to power new RTU. Coordinate with mechanical.

2. Contractor to verify panel location. Power from closest 120V, 20/1 breaker.

3. Typical. Duct detector and shut down relay provided integral with the mechanical unit. Final termination by electrical contractor. Connect to fire alarm system. Interlock duct detector with equipment so equipment shuts down upon activation. Duct detector shall be located in the unit. Coordinate with mechanical contractor.

4. Typical. GFI receptacles integral to unit. Run conduit along existing conduit supports as able.
### Equipment Connection Schedule

**General Notes:**
- All Switches are 600A, 120/208V 3Ø4W unless otherwise noted.
- All Disconnects are 400A 208V, 3P unless otherwise noted.

<table>
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<th>Description</th>
<th>Ambus Imped.</th>
<th>MVA</th>
<th>Service</th>
<th>Disconn. Status</th>
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**Electrical Riser Diagram Notes:**
- All equipment is subject to change. Verify with manufacturer.
- All connection points are subject to change. Verify with manufacturer.
- All connections are subject to change. Verify with manufacturer.

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- All connection points are subject to change. Verify with manufacturer.
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### KELLOM ELEMENTARY EXISTING PANEL L07

**Electrical Panel Schedules**

**DATE:** 06-05-2024

**OPS KELLOM ROOF TOP HVAC UNIT IMPROVEMENTS**

**1311 N 24TH STREET**

**OMAHA, NE 68102**

**E2.2**

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### EDUCARE AT KELLOM EXISTING PANEL LK1

**Electrical Panel Schedules**

**DATE:** 06-05-2024

**OPS KELLOM ROOF TOP HVAC UNIT IMPROVEMENTS**

**1311 N 24TH STREET**

**OMAHA, NE 68102**

**E2.2**

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### KELLOM ELEMENTARY EXISTING PANEL 'Z'

**Electrical Panel Schedules**

**DATE:** 06-05-2024

**OPS KELLOM ROOF TOP HVAC UNIT IMPROVEMENTS**

**1311 N 24TH STREET**

**OMAHA, NE 68102**

**E2.2**

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### EDUCARE AT KELLOM EXISTING PANEL HP1

**Electrical Panel Schedules**

**DATE:** 06-05-2024

**OPS KELLOM ROOF TOP HVAC UNIT IMPROVEMENTS**

**1311 N 24TH STREET**

**OMAHA, NE 68102**

**E2.2**