





MEP SPECIFICATIONS

GENERAL MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS

- 13. WALL & CEILING HEATERS
A. NICKEL-CHROMIUM HEATING WIRE, FREE FROM EXPANSION NOISE & HUM, MOUNTED IN CERAMIC INSERTS IN A GALVANIZED-STEEL HOUSING WITH FUSES IN TERMINAL BOX...

- 14. MECHANICAL EXECUTION
A. COORDINATE W/EC TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER CONTROLS & DEVICES. MC IS RESPONSIBLE FOR ALL CONTROL & INTERLOCK WIRING UNLESS SPECIFICALLY SHOWN ON ELECTRICAL DRAWINGS...

- 15. FINAL TESTS & ADJUSTMENTS
A. FINAL SYSTEM TESTING, BALANCING & ADJUSTMENTS SHALL BE PERFORMED BY CONTRACTOR CERTIFIED BY NEBB, AABC OR OTHER APPROVED AGENCY. PERFORM TEST READINGS ON FANS, UNITS, COILS, ETC. & ADJUST EQUIPMENT TO DELIVER SPECIFIED AMOUNTS OF AIR...

- 16. STARTUP SERVICE
A. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICE FOR ALL EQUIPMENT & SYSTEMS.
B. COMPLETE INSTALLATION & STARTUP CHECKS ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS...

END OF DIVISION 23000

SECTION 20000 - ELECTRICAL

- 1. GENERAL ELECTRICAL REQUIREMENTS
A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS.
B. WIRING OF MECHANICAL EQUIPMENT
1) PROVIDE ALL RACEWAYS & POWER WIRING FOR ALL DIVISION 23 EQUIPMENT...

- 2. CONDUITS & CONDUITORS
A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 3/4" & NO CONDUITORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.

- 3. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THIN-TWAIN-2 600V, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES.
A. LIGHTING FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- 4. ALL MATERIALS SHALL BE
A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER, TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS. WHERE ELECTRICAL EQUIPMENT IS INSTALLED AS SERVICE ENTRANCE EQUIPMENT, CONTRACTOR SHALL FURNISH & INSTALL NAMEPLATE LISTING THE FOLLOWING: EQUIP SHORT-CIRCUIT CURRENT RATING...

- 5. BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON DRAWINGS. COMPLETE W/ CIRCUIT NUMBERS & PANELBOARD DESIGNATION. CONTINUE ALL SUCH "HOME RUN" WIRING TO DESIGNATED PANELBOARD.
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- 6. BACKWALL INSTALLATION
A. INSTALL ALL CONDUITORS & CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN JOINT BOXES & ENCLOSURES W/ APPROVED SOLDERLESS CONNECTORS...

- 7. INTERLOCKING SPACERS FOR MULTIPLE RUNS OF UG CONDUITS IN SAME TRENCH
A. PROVIDE INTERLOCKING SPACERS FOR MULTIPLE RUNS OF UG CONDUITS IN SAME TRENCH. INTERLOCKING SPACERS SHALL BE PROVIDED AT 4' ON-CENTER.

- 8. CIRCUIT BREAKERS IN EXISTING PANELBOARDS
A. PROVIDE NEW CIRCUIT BREAKERS, FOR INSTALLATION IN EXISTING PANELBOARDS, OF SAME MANUFACTURER, TYPE & SHORT CIRCUIT CURRENT INTERRUPTING RATINGS AS EXISTING PANELBOARD CIRCUIT BREAKERS.

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MARSHALLTOWN

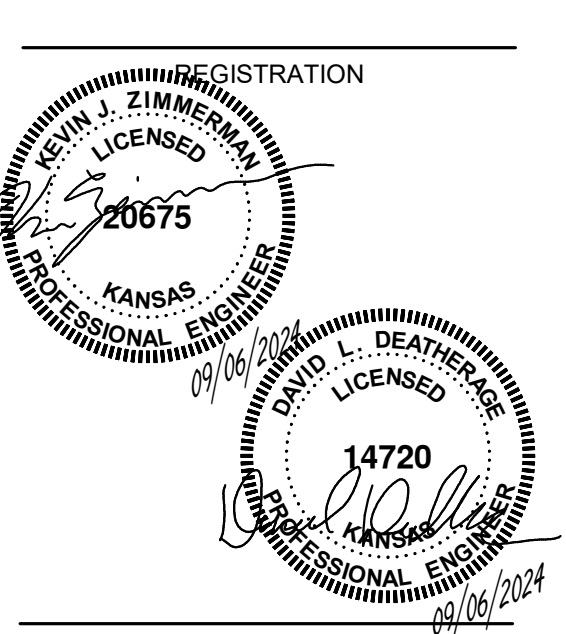
99TH STREET & LEAVENWORTH KANSAS CITY, KANSAS

Project No.: 24.271 Date: 09.06.2024

Issued For: PERMIT

REVISIONS

Table with 3 columns: No., Date, Description. Contains revision entries for the drawing.



MillerStauch CONSTRUCTION Beyond Building

PROJECT TEAM

Table listing project team members: ARCHITECT (FINKLE/ WILLIAMS ARCHITECTURE), CIVIL (OLSSON), LANDSCAPE (OLSSON), STRUCTURAL (KRUDWIG STRUCTURAL ENGINEERS), PLUMBING (PKMR ENGINEERS), MECHANICAL (PKMR ENGINEERS), ELECTRICAL (PKMR ENGINEERS).

CONTRACTOR MILLERSTAUCH



PEARSON KENT MONKLEY RAFF ENGINEERS, LLC LEXEN, KS 66215 913.622.2600 WWW.PKMR.COM

SHEET TITLE

MEP SPECIFICATIONS

SHEET NUMBER

MEP0.03





















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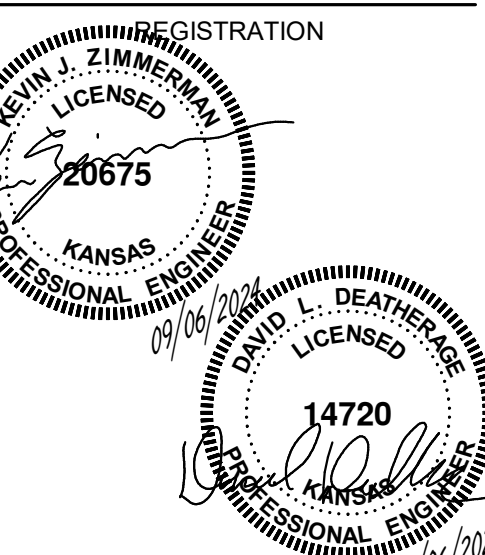
99TH STREET & LEAVENWORTH KANSAS CITY, KANSAS

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Table with 3 columns: No., Date, Description. Revision 1: 09.20.24 Addendum 1

- 1. PROVIDE WITH INSULATED PLENUM
2. LENGTH AS INDICATED ON PLANS
3. PROVIDE ROUND NECK ADAPTER WHERE SHOWN WITH ROUND CONNECTION
4. COORDINATE FINISH WITH ARCHITECT. PROVIDE GALVANIZED OR MILL FINISH WHERE DUCTWORK IS NOT TO BE PAINTED. PROVIDE PRIME PAINTABLE FINISH WHEN DUCTWORK IS TO BE PAINTED.



PROJECT TEAM

ARCHITECT: FINKLE-WILLIAMS ARCHITECTURE

CIVIL: OLSSON

LANDSCAPE: OLSSON

STRUCTURAL: KRUDWIG STRUCTURAL ENGINEERS

PLUMBING: PKMR ENGINEERS

MECHANICAL: PKMR ENGINEERS

FIRE PROTECTION: PKMR ENGINEERS

CONTRACTOR: MILLERSTAUCH



SHEET TITLE

MECHANICAL & PLUMBING SCHEDULES

SHEET NUMBER

MP4.01

ROOFTOP UNIT SCHEDULE (GAS HEAT)

Table with columns: PLAN MARK, MANUFACTURER, MODEL, CFM, O.A. CFM, E.S.P., BHP, HP, EAT (DB/WB), LAT (DB/WB), T/S CAPACITY (MBH), INPUT (MBH), GAS HEATING OUTPUT (MBH), EAT/LAT (°F), NO., THICKNESS, SIZE, VOLTAGE PHASE, M.C.A., M.O.C.P., SCRR (A), WEIGHT (LBS), REMARKS

- REMARKS: 1. CAPACITIES BASED ON 100' AMBIENT TEMPERATURE. 2. FURNISH WITH INTEGRAL SINGLE-POINT DISCONNECT. 3. PROVIDE MANUFACTURER'S RECOMMENDED ROOF CURB MINIMUM 14". 4. PROVIDE ECONOMIZER WITH BAROMETRIC RELIEF. 5. PROVIDE UNIT-MOUNTED GFG 120V 15A CONVENIENCE OUTLET. 6. PROVIDE CONDENSER HANG GUARDS. 7. PROVIDE 2-STAGE COOLING AND MINIMUM 2-STAGE HEATING. 8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT CAPABLE OF 3H / 2C COOLING. 9. PROVIDE HOT GAS REHEAT WITH ALL ASSOCIATED SENSORS AND CONTROLS SEQUENCES. 10. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO UNIT.

GRILLE, REGISTER & DIFFUSER SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, MATERIAL, STYLE, DESCRIPTION, MOUNT TYPE, FACE SIZE (IN), NECK SIZE (IN), VOLUME DAMPER, MAX APD (IN WG), MAX HC, FINISH COLOR, REMARKS

- GENERAL REMARKS: 1. PROVIDE WITH ALL NECESSARY MOUNTING HARDWARE. 2. PROVIDE GRD WITHOUT SCREWHOLE WHEN INSTALLED IN LAY-IN CEILING. 3. VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.

EXPANSION TANK SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, TOTAL VOLUME (GAL), ACCEPTANCE VOLUME (GAL), NOTES

- REMARKS: 1. REF. WATER HEATER DETAIL FOR INSTALLATION REQUIREMENTS.

EXHAUST FAN SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, TYPE, SERVICE, CFM, E.S.P. (IN), BHP, HP, DRIVE, SCHEM, RPM, ELECTRICAL, CONTROL, REMARKS

- REMARKS: 1. PROVIDE MANUFACTURER'S RECOMMENDED ROOF CURB MINIMUM 14". 2. PROVIDE WITH STUCCO AND WIRE TO START SWITCH. 3. PROVIDE BIRD SCREEN. 4. PROVIDE INDOOR TO OPERATE FAN BASED OFF OF BUILDING SCHEDULED OPERATIONAL HOURS. 5. PROVIDE WITH MOTOR STARTER AND WALL MOUNTED 120V COOLING THERMOSTAT FOR EXHAUST FAN CONTROL. PROVIDE 2 AUXILIARY CONTACTS FOR LOUVER INTERLOCK.

HVAC PIPING MATERIAL SCHEDULE

Table with columns: PIPING SYSTEM, SIZE, TYPESCHED, MATERIAL, ACCEPTABLE FITTINGS, FIELD TEST PRESSURE/TIME, ALLOWABLE IN PLENUMS, INSULATION TYPE, THICKNESS

- NOTES: 1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 2500. 2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM. 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

DUCTWORK INSULATION SCHEDULE

Table with columns: PURPOSE, DUCT DUTY, LOCATION, STYLE, MATERIAL, APPLICATION, THICKNESS, NOTES

- NOTES: 1. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACOUSTICS. 2. THICKNESS SHALL ENCAPSULATE DUCT CONSTRUCTION. 3. CONTRACTOR OPTION TO USE ROUND DUCT LINER OR PROVIDE PERFORATED LINER DOUBLE WALL DUCT (SOLID LINER FOR OUTSIDE AIR DUCTS). 4. IN ADDITION TO OTHER SCHEDULED INSULATION. 5. INSTALL FROM UNIT DISCHARGE TO FIRST DUCT ELBOW, THEN 10' FURTHER. NOT REQUIRED INSIDE CHASES OR MECHANICAL ROOMS. BUT SHALL BE INSTALLED ON REMAINING DUCTWORK WHEN 10' DIMENSION FALLS OUTSIDE ROOM. 6. PROVIDE ALUMINUM JACKETING OVER EXTERIOR DUCTWORK INSULATION. GENERAL REMARKS (APPLICABLE TO ALL TYPES): 1. ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 2500. 2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM. 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

MAKE-UP AIR UNIT SCHEDULE (DIRECT-FIRED GAS)

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, CFM, FAN DATA (E.S.P., HP, INPUT, OUTPUT), GAS HEAT (EAT, LAT, T/S), ELECTRICAL (VOLTAGE, M.C.A., M.O.C.P.), WEIGHT (LBS), NOTES

- REMARKS: 1. PROVIDE MINIMUM 10-1 TURNDOWN FOR GAS HEATING. 2. PROVIDE DUPLEX RECEPTACLE MOUNTED ON UNIT FOR FIELD WIRING. 3. PROVIDE FILTER SECTION WITH 2" FILTERS. 4. PROVIDE TEMPERATURE SETBACK SYSTEM (TSS) FOR COMBINATION USE OF 7-DAY PROGRAMMABLE THERMOSTAT AND THREE POSITION OPERATION (SUMMER VENTILATION, OFF, HEATING). 5. FURNISH WITH INTEGRAL SINGLE-POINT ELECTRICAL DISCONNECT. 6. FURNISH WITH MANUFACTURER'S STANDARD 4-WAY DISCHARGE AIR DIFFUSER. 7. PROVIDE WITH MANUFACTURER'S STANDARD ROOF CURB WITH 14" MINIMUM HEIGHT. 8. PROVIDE GAS STRAINER FOR INCOMING GAS LINE. SHIPPED LOOSE. 9. PROVIDE BACKDRAFT DAMPER. 10. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. 11. PROVIDE WITH MANUFACTURER'S STANDARD ROOF CURB WITH 14" MINIMUM HEIGHT. SECURE UNIT TO CURB PER MANUFACTURER'S RECOMMENDATIONS.

HVLS FAN SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, AREA SERVED, FAN DATA (DIA, BLADES, HP, DRIVE, RPM), ELECTRICAL (VOLTAGE, M.C.A., M.O.C.P.), WEIGHT (LBS), REMARKS

- REMARKS: 1. UNIT SHALL BE CONSTRUCTED WITH INDUSTRIAL GRADE MOTOR AND GEARBOX ON HOARD W/VD IN NEMA 4X ENCLOSURE. 2. UNIT SHALL BE CONSTRUCTED WITH AIRPOLL BLOCKS WITH WINGLETS TO REDUCE INDOOR NOISE. 3. PROVIDE OPTIONAL MOUNTING KIT AND GUY WIRES AS REQUIRED. COORDINATE MOUNTING WITH STRUCTURAL DRAWINGS. 4. PROVIDE WITH ONE BAFCOM WALL CONTROLLER CAPABLE OF ON/OFF CONTROL AND FAN SPEED CONTROL FOR ALL 8 HVLS FANS. 5. PROVIDE WITH FIRE RELAY FOR FAN SHUTDOWN UPON SPRINKLER FLOW. 6. PROVIDE IN COLORS AS CHOSEN BY ARCHITECT. 7. PROVIDE ALL ACCESSORIES FOR WALL MOUNTING WITH OPTIONAL SWIVEL KIT. 8. PROVIDE INTEGRAL POWER ON/OFF SWITCH.

LOUVER SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, STYLE, SERVICE, WIDTH, HEIGHT, CFM, APD (IN WC), FREE AREA (SF), VELOCITY (FPM), FAN INTERLOCK, REMARKS

- REMARKS: 1. PROVIDE 1/2" MESH GALVANIZED STEEL BIRD SCREEN. 2. PROVIDE PRIME COAT FINISH. FIELD PAINT COLOR AS SELECTED BY ARCHITECT. 3. FRAME TYPE SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT. 4. PROVIDE WITH INTEGRAL 120V MOTOR OPERATED DAMPER WITH ASSOCIATED EXHAUST FAN.

PLUMBING FIXTURE SCHEDULE

Main table with columns: MARK, FIXTURE MODEL, FITTINGS MODEL, FITTINGS AND DESCRIPTION, REMARKS, WASTE, VENT, DOW, DWV

REMARKS: 1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN. 2. PROVIDE CHROME-PLATED BRASS P-TRAP. 3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS. 4. PROVIDE CONCEALED AIR FINE CARRIER WITH SQUARE, TUBULAR STEEL UPRIGHTS AND BLOCK TYPE BASES. 5. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS. 6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. 7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS. 8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER. 9. FINISH TO BE BRUSHED STAINLESS. COORDINATE WITH ARCHITECT.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES): 1. ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SCALD ASSESS 1070 LISTED VALVE ON HOT WATER SUPPLY. 2. FIXTURE CONNECTION SIZES SHOWN IN SCHEDULE ARE CONNECTION SIZE AT FIXTURE ON PLANS. 3. COORDINATE FIXTURE REQUIREMENTS SCHEDULED ABOVE WITH OTHER TRADES. VERIFY CABINET SIZES, COUNTERTOP MATERIALS, WALL THICKNESSES, ETC ARE APPROPRIATE FOR SPECIFIED FIXTURES PRIOR TO ORDERING.

PIPING

Table with columns: SYSTEM, SIZE, TYPESCHED, MATERIAL, ACCEPTABLE FITTINGS, FIELD TEST PRESSURE/TIME, ALLOWABLE IN PLENUMS, INSULATION TYPE, THICKNESS

NOTES: 1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 2500. 2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED IECC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM. 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION. 4. WELDED PIPING IS REQUIRED FOR GAS PIPING WHEN A) PIPING IS AT OR OVER 2PSI, B) WHEN PIPING OF ANY PRESSURE IS ROUTED THROUGH CONCEALED SPACES.

DOMESTIC RECIRCULATION PUMP SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, GPM, HEAD (FT. WG), HP, MAX. RPM, ELECTRICAL, NOTES

- REMARKS: 1. MOUNT PUMP AND ACCESSORIES NEAR WATER HEATER AND NO HIGHER THAN 6" A.F.F. 2. ECU MOTOR WITH INTEGRAL SPEED CONTROL AND TEMPERATURE SWITCH AND DISCONNECT. 3. INTEGRAL PRESSURE SENSOR FOR FLOW SENSING. PUMP TO TURN ON WHEN HOT WATER DEMAND IN SPACE IS SENSED. INTEGRAL TEMPERATURE SENSOR. PUMP TO MAINTAIN DESIRED TEMPERATURE IN LOOP AND TURN OFF WHEN TEMPERATURE IS HIT AND NO DEMAND IS SENSED. PUMP TO HAVE INTEGRAL AUTOMATIC ADJUSTABLE NIGHT MODE.

MINI SPLIT CONDENSING UNIT SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, COOLING CAPACITY (MBH), MINIMUM SEER2, AMBIENT TEMP. (°F), VOLTS / PH, ELECTRICAL (M.C.A., M.O.C.P.), REMARKS

- REMARKS: 1. CONTRACTOR SHALL VERIFY WITH MANUFACTURER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 2. UNIT SHALL OPERATE DOWN TO 0°F IN COOLING MODE. PROVIDE ACCESSORIES AS REQUIRED. 3. FURNISH WITH INTEGRAL DISCONNECT.

WATER HEATER SCHEDULE - ELECTRIC

Table with columns: PLAN MARK, MANUFACTURER, MODEL NUMBER, GALLONS, USE, STYLE, HEIGHT (IN), ELEMENTS (NO., WATTS), TOTAL WATTS, RECOVERY @ 80°F, VOLTAGE / PHASE, REMARKS

- REMARKS: 1. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS. 2. MOUNT ON SHELVE. REFER TO DETAIL. 3. POINT OF USE WATER HEATER MOUNT ON WALL BESIDE FIXTURE. PROVIDE ACCESSORIES NECESSARY FOR WALL MOUNT. 4. HOT WATER DISPENSER WATER HEATER. MOUNT UNDER COUNTER.



