

MECHANICAL + ELECTRICAL DESIGN

UPTON MIDDLE SCHOOL - IAQ UPGRADES ST. JOSEPH PUBLIC SCHOOLS

2521 Stadium Dr, St Joseph, MI 49085

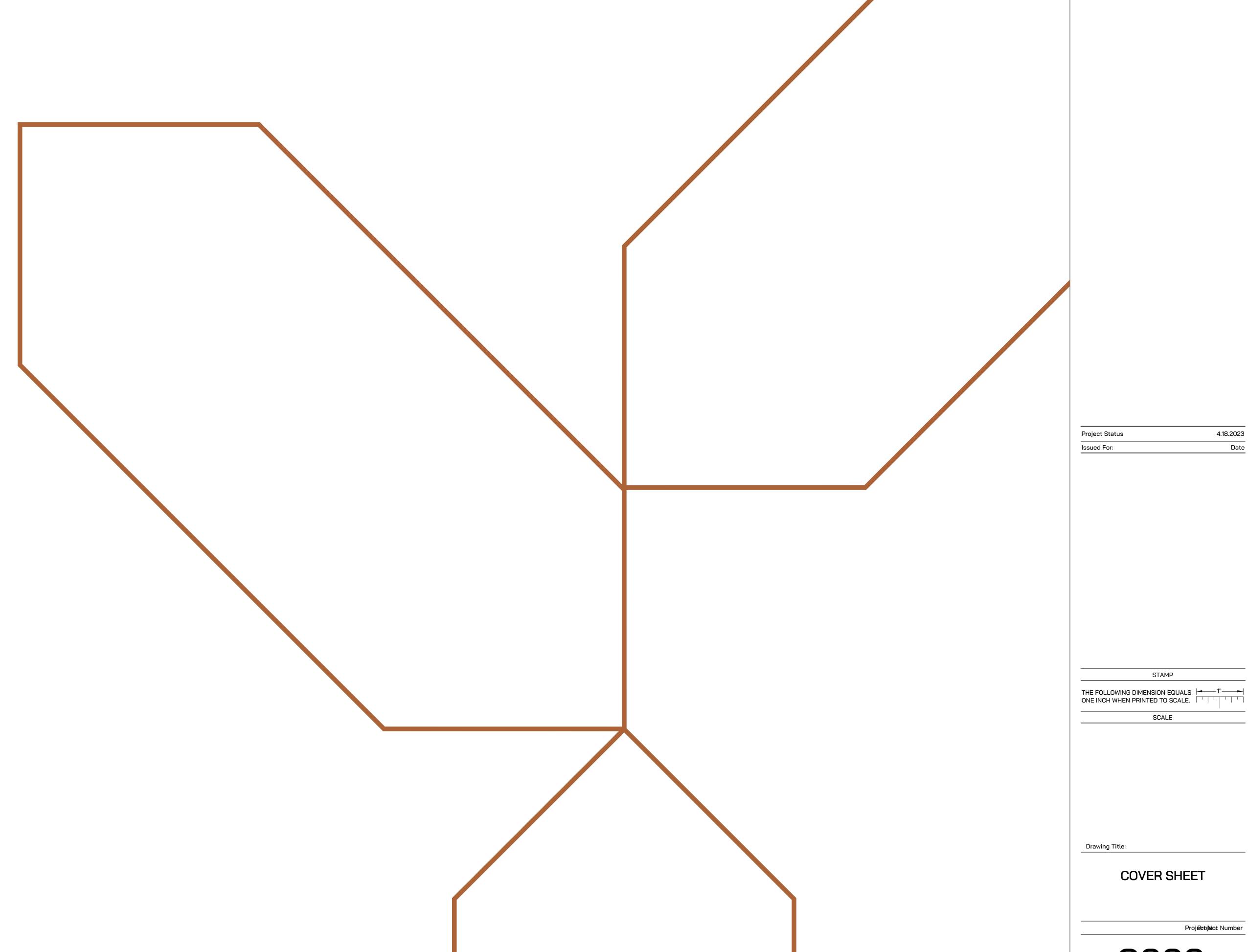
MEP Engineer / Project Manager:

IGNYTE DESIGN 38 COMMERCE SW, SUITE 450 GRAND RAPIDS, MI 49503

WWW.IGNYTE.DESIGN

Applicable Codes:

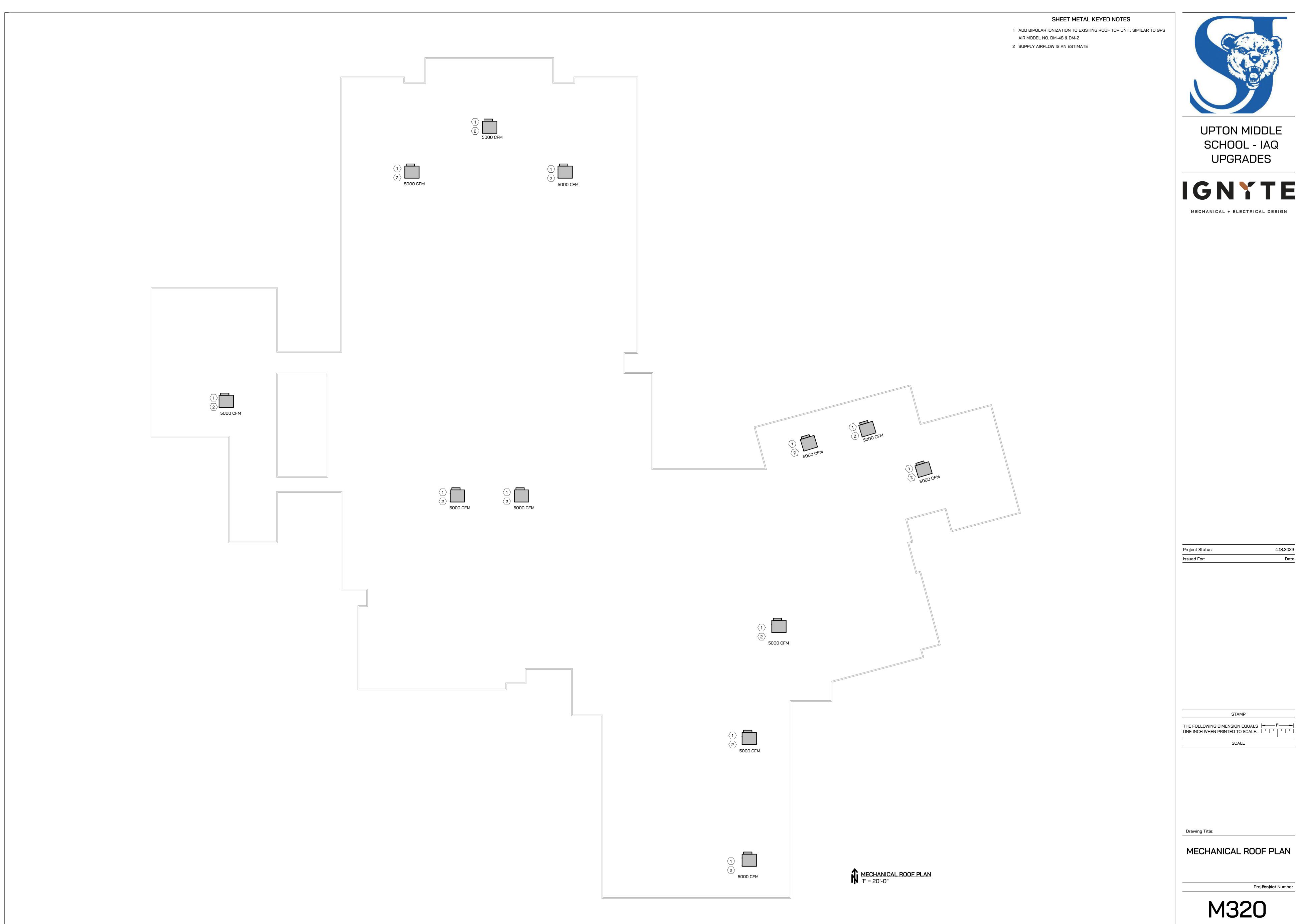
- 2015 MICHIGAN BUILDING CODE
- 2015 MICHIGAN MECHANICAL CODE
- 2018 MICHIGAN PLUMBING CODE2015 MICHIGAN ENERGY CODE
- 2017 NATIONAL ELECTRIC CODE



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| BREVIATION DESCRIPTI | CAL ABBREVIATIO | | | | | | ANICAL SYMBOL LIST | | | | | | | |
|--|---|---|---|---|--|--|---|--|---|--|--|--|---|--|
| 00110000 | | | N DESCRIPTION | ABBREVIATIO | ON DESCRIPTION | PIPING SYMBOLS SYMBOL A AV | DESCRIPTION | DUCTWORK SY SYMBOL | MBOLS DESCRIPTION | | | | | Contract of the second |
| | | FD FFD FH | FLOOR DRAIN FUNNEL FLOOR DRAIN FIRE HYDRANT | O OA OAT | OXYGEN OUTSIDE AIR OUTSIDE AIR TEMPERATURE | MV $\overline{\overline{Q}}_{1}$ | | <u>TU-101</u> | AIR TERMINAL UNIT | | | | | |
| C AIR COOLE CU AIR COOLE | LED CONDENSER LED CONDENSER UNIT | FHC FHR | FIRE HOSE CABINET FIRE HOSE RACK | OBD OC | OPPOSED BLADE DAMPER ON CENTER/CENTER TO CENTER | BFP | BACKFLOW PREVENTER | <u>TU-101</u> | AIR TERMINAL UNIT WITH HEATING COIL | | | | | |
| ACCESS DO AREA DRA | RAIN | FHV FLA | FIRE HOSE VALVE FULL LOAD AMPS | OD OED | OUTSIDE DIAMETER OPEN ENDED DUCT | —————————————————————————————————————— | OLDOU IL ATINO DUMD | <u>VTU-101</u> | VENTURI AIR TERMINAL UNIT | | | | | |
| | RACTOR FINISHED FLOOR V MEASURING STATION | FLR FM FMS | FLOOR FLOW METER FLOW MEASURING STATION | OFOI OI | OWNER FURNISHED, CONTRACTOR INSTALLED ONWER FURNISHED, OWNER INSTALLED OVERLOAD | —————————————————————————————————————— | CLEAN OUT - IN FLOOR | VTU-101 | VENTURI AIR TERMINAL UNIT WITH HEATING COIL | | | | | |
| ABOVE GR. J AIR HANDL | GRADE DLING UNIT | FPM FP | FEET PER MINUTE FIRE PUMP | ORC ORD | OVERFLOW RAIN CONDUCTOR OVERFLOW ROOF DRAIN | —————————————————————————————————————— | CLEAN OUT - FLANGE DIRECTION OF FLOW | | DAMPER - HORIZONTAL FIRE (EXISTING, NEW) | | | | | |
| ALTERNAT AMPERE | | FPTU FS | FAN POWERED (AIR) TERMINAL UNIT FLOOR SINK | OS&Y OV | OUTSIDE SCREW AND YOKE OUTLET VELOCITY | | BINESTION OF FINGE BOWN | | | | | | | |
| ARGON | SSURE DROP AN SOCIETY OF HEATING, REFRIGERATION | FSE FT FTR | FOOD SERVICE EQUIPMENT FEET FINNED TUBE RADIATION | OWS PACU | OPERATOR WORKSTATION PACKAGED AIR CONDITIONING UNIT | ₫, | FINNED TUBE RADIATION FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING | | DAMPER - SMOKE (EXISTING, NEW) | | | | | UPTON MIDDLE |
| AND AIR-C | -CONDITIONING ENGINEERS | FW FV | FOOT WASH FACE VELOCITY | PBD PC | PACKAGED AIR CONDITIONING ONLY PARALLEL BLADE DAMPER PUMPED CONDENSATE | | FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED | | DAMPER - VERTICAL FIRE (EXISTING, NEW) | | | | | SCHOOL - IAQ |
| X AUXILIARY ACID VENT | RY NT | G | NATURAL GAS | PCW PCWR | PROCESS COOLING WATER PROCESS COOLING WATER RETURN | ——● ——◎ | FIRE PROTECTION - SPRINKLER HEAD, CONCEALED FIRE PROTECTION - SPRINKLER HEAD, PENDANT | & | DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW) | | | | | UPGRADES |
| FR ACID VENT ACID WAS | NT THROUGH ROOF ASTE | GA GAL | GAUGE GALLON | PCWS PD | PROCESS COOLING WATER SUPPLY PRESSURE DROP (FEET OF WATER) | | FIRE PROTECTION - SPRINKLER HEAD, UPRIGHT | BDD | DAMPER - BACK DRAFT | | | | | |
| BUILDING A | G AUTOMATION SYSTEM | GRH GPH | GROUND HYDRANT GRAVITY RELIEF HOOD GALLONS PER HOUR | PH PHR PHS | PERIMETER HEAT PERIMETER HEAT RETURN PERIMETER HEAT SUPPLY | ——< ——⇒© | FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL FLOOR DRAIN | M | DAMPER - MOTORIZED | | | | | ICNINT |
| D BACK DRA | | GPM | GALLONS PER MINUTE | PNL PPM | PANEL PARTS PER MILLION | ∀ | FLOOR DRAIN - ELEVATION | | DAMPER - VOLUME (MANUALLY ADJUSTABLE) DIFFUSER - BLANK OFF | | | | | IGNYTI |
| BRAKE HO | OW PREVENTER HORSEPOWER | H HB | HYDROGEN HOSE BIBB | PRESS PRV | PRESSURE PRESSURE REDUCING VALVE | | FLOOR DRAIN - FUNNEL FLOOR DRAIN - FUNNEL, ELEVATION | | | | | | | MECHANICAL + ELECTRICAL DESIG |
| D BOTTOM O BOTTOM O BRITISH TH | | HC HD | HEATING COIL HOT DECK HIGH EFFICIENCY PARTICULATE ARRESTANCE | PSAN PSI | PUMPED SANITARY POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH - ABSOLUTE | ΠES | FLOW MEASURING DEVICE (FOR TEST AND BALANCING) | | DIFFUSER - LINEAR SLOT DIFFUSER - SQUARE OR RECTANGULAR | | | | | |
| H BRITISH TH | THERMAL UNIT PER HOUR ATER VALVE | HL HOA | HIGH LIMIT HAND/OFF/AUTO | PSIA PSIG PST | POUNDS PER SQUARE INCH - ABSOLUTE POUNDS PER SQUARE INCH - GAUGE PUMPED STORM | — ☐ FM | | | DUCT CROSS SECTION - SUPPLY | | | | | |
| COMMON | N | HO HP | HUB OUTLET HEAT PUMP | PW PWR | PURIFIED WATER PURIFIED WATER RETURN | MH HB | HOSE BIBB MANHOLE | | DUCT CROSS SECTION - RETURN | | | | | |
| | NT AIR VOLUME | HP HPCW | HORSEPOWER HIGH PRESSURE DOMESTIC COLD WATER | PWS | PURIFIED WATER SUPPLY | — ⇒⊚ | OPEN SITE DRAIN | | DUCT CROSS SECTION - EXHAUST | | | | | |
| CATCH BA COOLING C COLD DEC | G COIL | HPHW HPHWR | HIGH PRESSURE DOMESTIC HOT WATER HIGH PRESSURE DOMESTIC HOT WATER RETURN HEAT PUMP LOOP | (K) R PA | RELOCATED RETURN GRILLE OR REGISTER RETURN AIR | —————————————————————————————————————— | PIPE - ANCHOR PIPE - CAP OR PLUG | | DUCT - FLEXIBLE CONNECTION | | | | | |
| CONDENSA | ISATE DRAIN ISCTOR FURNISHED, CONTRACTOR | HPS HPLR | HIGH PRESSURE STEAM HEAT PUMP LOOP RETURN | RAT RC | RETURN AIR TEMPERATURE RAIN CONDUCTOR | —— <u>э</u> | PIPE - ELBOW DOWN | | DUCT - FLEXIBLE DUCT | | | | | |
| INSTALLED CUBIC FEE | .ED EET PER HOUR | HPLS HR | HEAT PUMP LOOP SUPPLY HOUR | RCP RD | RADIANT CEILING PANEL ROOF DRAIN | ─ ─○ | PIPE - ELBOW UP PIPE - EXPANSION JOINT OR COMPENSATOR | \ \ | DUCT TAKE-OFF - ROUND CONICAL | | | | | |
| CHILLER | | HTG HV | HEATING HEATING VENTILATING HEATING VENTILATING AIR CONDITIONING | REQD REF | REQUIRED ROOF EXHAUST FAN | ——————————————————————————————————————— | PIPE - FLANGE | √ √ | DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP | | | | | |
| |) WATER) WATER RETURN) WATER SUPPLY | HVAC HHW HHWR | HEATING, VENTILATING, AIR CONDITIONING HEATING HOT WATER HEATING HOT WATER RETURN | K⊦ RH RI | RETURN FAN RELATIVE HUMIDITY REFRIGERANT LIQUID | | PIPE - HOSE AND BRAID FLEXIBLE CONNECTION PIPE - RUBBER FLEXIBLE CONNECTION | <u></u> | ELBOW - RECTANGULAR WITH TURNING VANES | | | | | |
| COOLING | 3 | HHWS HW | HEATING HOT WATER RETORN HEATING HOT WATER SUPPLY DOMESTIC HOT WATER | RLFA RPM | REFRIGERANT LIQUID RELIEF AIR REVOLUTIONS PER MINUTE | —————————————————————————————————————— | | <u></u> | ELBOW - RECTANGULAR WITH TURNING VANES ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS | | | | | |
| S (#) CONDENSA CLEAN OU | ISATE (SPECIFIC PSIG) DUT | HW() HWR | DOMESTIC HOT WATER (SPECIFIC TEMP °F) DOMESTIC HOT WATER RETURN | RS RTU | REFRIGERANT SUCTION ROOFTOP UNIT | _ | PIPE - TEE DOWN | <u>↓</u> | ELBOW DOWN - RECTANGULAR | | | | | |
| CARBON D CONTINUA | I DIOXIDE JATION OR CONTINUED | HX HZ | HEAT EXCHANGER HERTZ | SA | SUPPLY AIR DIFFUSER OR GRILLE | —————————————————————————————————————— | | \ | ELBOW DOWN - RECTANGULAR ELBOW DOWN - ROUND | | | | | |
| CONVECTO | | IAQ ID | INDOOR AIR QUALITY INSIDE DIAMETER | SA SA SAN | SOUND ATTENUATOR SUPPLY AIR SANITARY WASTE | © ¯ р/т Он | PRESSURE AND TEMPERATURE TEST PLUG | , | ELBOW UP - RECTANGULAR | | | | | |
| CIRCULATI | ATING PUMP ISATE RETURN UNIT | IE IH | INVERT ELEVATION INTAKE HOOD | SAN (GREASE) SAT | | | PRESSURE GAUGE AND COCK REDUCER - CONCENTRIC | , □ | ELBOW UP - ROUND | | | | | |
| COOLING T | | IN IR | INCHES INFRARED HEATER | SCW SCWF | SOFTENED DOMESTIC COLD WATER SOFTENED DOMESTIC COLD WATER FILTERED | | REDUCER - CONCENTRIC REDUCER - ECCENTRIC | | FAN - AXIAL | | | | | |
| DOMESTIC | UNIT HEATER IC COLD WATER | IW | INDIRECT WASTE | SECT SF | SECTION SUPPLY FAN | —— | ROOF/OVERFLOW DRAIN | | FAN - CENTRIFUGAL (ELEVATION) | | | | | |
| CONDENSE | TIC COLD WATER FILTERED ISER WATER RETURN ISER WATER SUPPLY | JC JP | JANITOR'S CLOSET JOCKEY PUMP | SH SHW SHW (140) | SHOWER SOFTENED DOMESTIC HOT WATER SOFTENED DOMESTIC HOT WATER (140) | | | | HEATING COIL | | | | | |
| CONDENSE DRIP AND | | KW KWH | KILOWATT KILOWATT-HOUR | SHWR SHWR (140) | SOFTENED DOMESTIC HOT WATER RETURN SOFTENED DOMESTIC HOT WATER RETURN (140) | 111 % | STRAINER WITH VALVE AND BLOW-OFF | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | INCLINED DROP IN DIRECTION OF AIRFLOW | | | | | |
| DISCHARG DISCHARG | RGE AIR RGE AIR TEMPERATURE | LAT | LEAVING AIR TEMPERATURE | SK SMR | SINK SNOW MELT RETURN | ——¥ ——⇒∞ | THERMOMETER TRAP | \ | INCLINED RISE IN DIRECTION OF AIRFLOW | | | | | |
| | DIGITAL CONTROL | LAB LAV LBS | LABRATORY LAVATORY POUNDS | SMS SP SPEC | SNOW MELT SUPPLY STATIC PRESSURE SPECIFICATION | <u>\</u> | VALVE - ANGLE | | INTAKE OR RELIEF HOOD | | | | | |
| DEGREE DRAINAGE DIAMETER | GE FIXTURE UNITS | LDB LD | POUNDS LEAVING DRY BULB LINEAR DRAIN | SPEC SPKLR SQFT | SPECIFICATION SPRINKLER SQUARE FOOT/SQUARE FEET | <u> </u> | | <u> </u> | REGISTER - RETURN OR EXHAUST | | | | | |
| R DAMPER DAY/NIGH | R | LL LPC | LOW LIMIT LOW PRESSURE CONDENSATE | S/S SS | START/STOP SERVICE SINK | —————————————————————————————————————— | VALVE - COMINATION BALANCE & FLOW MEASURING | [/] | REGISTER - RETURN WITH BOOT | | | | | |
| | | LPS LPS(#) | LOW PRESSURE STEAM LOW PRESSURE STEAM (SPECIFIC PSIG) | ST STD | STORM STANDARD | • | VALVE - BUTTERFLY | — <u>—</u> | REGISTER - TRANSFER GRILLE | | | | | |
| DUCT SILE | ILE | LRA LWB | LOCKED ROTOR AMPS LEAVING WET BULB LEAVING WATER TEMPERATURE | STK STM STM(PSI) | STACK STEAM STEAM (SPECIFIC PSIG) | _ | VALVE - CHECK VALVE - SPRING CHECK | $\langle \overline{\square} \rangle$ | ROOF EXHAUST FAN | | | | | |
| DRAIN TILE DRAIN TILE | ILE CONNECTION | LWT | LEAVING WATER TEMPERATURE | STOR FOLL | 2. 2 11 (OF COIL TO FORD) | Г | | | | | | | | |
| DRAIN TILE DOMESTIC | IC WATER HEATER | LWT MA | MIXED AIR | S/W SW | SUMMER/WINTER SWITCH | | VALVE - GAS (MANUAL) | \longrightarrow | TRANSISTION - CONCENTRIC | | | | | |
| DRAIN TILE DOMESTIC DRAWING EXISTING | TIC WATER HEATER G G | | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT | S/W | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE | —————————————————————————————————————— | VALVE - GLOBE | | TRANSISTION - CONCENTRIC TRANSISTION - ECCENTRIC | | | | | |
| DRAIN TILE DOMESTIC DRAWING EXISTING EXISTING EXHAUST (| TIC WATER HEATER G G | MA MAT MAU MAX MBH | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR | S/W SW TA TC TC | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL | —————————————————————————————————————— | | | | | | | | |
| DRAIN TILE DOMESTIC DRAWING EXISTING EXISTING EXHAUST (EACH EXHAUST (| TIC WATER HEATER G G G G G T GRILLE OR REGISTER T AIR | MA MAT MAU MAX MBH MCA MCA | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY | S/W SW TA TC TC TCP TD | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL TEMPERATURE CONTROL PANEL TRENCH DRAIN | —————————————————————————————————————— | VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y | ├ | TRANSISTION - ECCENTRIC | | | | | Project Status 4.18 |
| DRAIN TILE DOMESTIC DRAWING EXISTING EXISTING EXHAUST (EACH EXHAUST (ENTERING EXPANSIO | TIC WATER HEATER G G G G T G T G T G T G T G T G T G T | MA MAT MAU MAX MBH MCA | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL MEZZANINE | S/W SW TA TC TC | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL TEMPERATURE CONTROL PANEL | ————————————————————————————————————— | VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG | | TRANSISTION - ECCENTRIC UNIT HEATER - HORIZONTAL THROW | | | | | Project Status 4.18 Issued For: |
| DRAIN TILE DOMESTIC DRAWING EXISTING EXHAUST (EACH EXHAUST (ENTERING EXPANSION ELECTRIC ENTERING ENTERING ENTERING ENTERING | CIC WATER HEATER G G G G G G G G G G G G G G G G G G G | MA MAT MAU MAX MBH MCA MCA MCC MECH MEZZ MFR MH | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL MEZZANINE MANUFACTURER MANHOLE | S/W SW TA TC TC TCP TD TEMP TEMP TH THA THA | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL TEMPERATURE CONTROL PANEL TRENCH DRAIN TEMPERATURE TEMPORARY TERMINAL HEATING TOTAL HEAT ABSORBED TERMINAL HEATING RETURN | | VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y | | TRANSISTION - ECCENTRIC UNIT HEATER - HORIZONTAL THROW UNIT HEATER - VERTICAL THROW E DUCTWORK SYMBOLS DESCRIPTION | | | | | Issued For: |
| DRAIN TILE DOMESTIC DRAWING EXISTING EXISTING EXHAUST OF THE PROPERTY OF THE P | IC WATER HEATER G G G G G G G T GRILLE OR REGISTER G G AIR TEMPERATURE ION COMPENSATOR IC CABINET UNIT HEATER IG DRY BULB G EFFICIENCY RATIO ENCY EYE WASH / SHOWER ENCY EYE WASH | MA MAT MAU MAX MBH MCA MCA MCC MECH MEZZ | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL MEZZANINE MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS | S/W SW TA TC TC TCP TD TEMP TEMP TH THA THA THR THR | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL TEMPERATURE CONTROL PANEL TRENCH DRAIN TEMPERATURE TEMPORARY TEMPORARY TERMINAL HEATING TOTAL HEAT ABSORBED TERMINAL HEATING RETURN TOTAL HEAT REJECTED TERMINAL HEATING SUPPLY | | VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING | DOUBLE LINE | TRANSISTION - ECCENTRIC UNIT HEATER - HORIZONTAL THROW UNIT HEATER - VERTICAL THROW E DUCTWORK SYMBOLS | | | | | Issued For: |
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| DRAIN TILE DOMESTIC DRAWING EXISTING EXISTING EXHAUST OF THE PROPERTION OF THE PROP | IC WATER HEATER G G G G G G G G G G G G G G G G G G G | MA MAT MAU MAX MBH MCA MCC MECH MEZZ MFR MH MIN MISC MMBH M/S MTD | MIXED AIR MIXED AIR TEMPERATURE MAKE-UP AIR UNIT MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL MEZZANINE MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MILLION BRITISH THERMAL UNITS PER HOUR MOTOR STARTER MOUNTED MOTOR MANUAL AIR VENT MEDICAL VACUUM | S/W SW TA TC TC TCP TD TEMP TEMP TH THA THA THR THR | SUMMER/WINTER SWITCH TRANSFER AIR GRILLE TEMPERATURE CONTROL TEMPERING COIL TEMPERATURE CONTROL PANEL TRENCH DRAIN TEMPERATURE TEMPORARY TERMINAL HEATING TOTAL HEAT ABSORBED TERMINAL HEATING RETURN TOTAL HEAT REJECTED TERMINAL HEATING SUPPLY TOTAL STATIC PRESSURE TERMINAL UNIT TURNING VANES TYPICAL UNIT HEATER UNDERWRITER'S LABORATORY | | VALVE - GLOBE VALVE - ISOLATION VALVE - NEEDLE VALVE - OS&Y VALVE - PLUG VALVE - PRESSURE REGULATING VALVE - PRESSURE REDUCING VALVE - PRESSURE RELIEF VALVE - PRESSURE & TEMPERATURE RELIEF VENT THROUGH ROOF WALL HYDRANT | DOUBLE LINE SYMBOL | TRANSISTION - ECCENTRIC UNIT HEATER - HORIZONTAL THROW UNIT HEATER - VERTICAL THROW E DUCTWORK SYMBOLS DESCRIPTION DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP | | | | | Issued For: |
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