



A PIPEWORK AND ASSOCIATED EQUIPMENT

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MECHANICAL SERVICES ABBREVIATION

EQUIPMENT REFERENCES

STANDARD COMPONENT'S ARRANGEMENT

| | | | | | | | | | |
|--|---|--|--|-------|----------------------------|--|-----------------------------|--|-------------------------------|
| | BALL VALVE | | KILOWATT-HOUR METER SINGLE/THREE PHASE | ASHP | AIR SOURCE HEAT PUMP | | S DENOTES TO SOURCE SIDE | | COMMISSIONING SET |
| | BUTTERFLY VALVE | | ENERGY/HEAT METER | AWV | AUTOMATIC AIR VENT | | C DENOTES TO COOLING | | FLOW MEASURING ORIFICE |
| | NON-RETURN VALVE | | FLOW METER | BMS | BUILDING MANAGEMENT SYSTEM | | FC DENOTES TO FREE COOLING | | PADDLE FLOW SWITCH |
| | DOUBLE CHECK VALVE | | FLOW SWITCH | CHW | CHILLED WATER | | H DENOTES TO HEATING | | L DENOTES TO LOAD SIDE |
| | PRESSURE REDUCING VALVE | | DIFFERENTIAL PRESSURE SWITCH | CLG | COOLING | | CONNECTION TO CONTROL PANEL | | POWER FROM DISTRIBUTION BOARD |
| | DIFFERENTIAL PRESSURE CONTROL VALVE | | DIFFERENTIAL PRESSURE SENSOR | CP | CONTROL PANEL | | | | |
| | PRESSURE RELIEF VALVE | | PRESSURE SENSOR | CU | COPPER PIPE | | | | |
| | DIFFERENTIAL PRESSURE CONTROL VALVE | | TEMPERATURE SENSOR | CV | CONTROL VALVE | | | | |
| | 2-PORT MOTORIZED VALVE (ON/OFF) | | PRESSURE GAUGE | DAC | DRY AIR COOLER | | | | |
| | 2-PORT MOTORIZED VALVE (MODULATING) | | TEMPERATURE GAUGE | DBV | DIFFERENTIAL BYPASS VALVE | | | | |
| | 3-PORT MOTORIZED VALVE (L PORT) | | ELECTRIC ISOLATOR SINGLE/THREE PHASE | DHW | DOMESTIC HOT WATER | | | | |
| | 3-PORT MOTORIZED VALVE (T PORT, ON/OFF) | | REDUCER | DC | DRAIN COCK | | | | |
| | 3-PORT MOTORIZED VALVE (T PORT, MODULATING) | | ELECTRIC IMMERSION HEATER | F | FLOW | | | | |
| | 3-PORT BALL VALVE | | BOREHOLE | FC | 'FREE' COOLING | | | | |
| | DOUBLE REGULATING VALVE | | ENERGY PILE | GL | GROUND LOOP | | | | |
| | COMMISSIONING SET | | | GSHP | GROUND SOURCE HEAT PUMP | | | | |
| | FLOW MEASURING ORIFICE | | | HTG | HEATING | | | | |
| | TEST POINTS | | | LTHW | LOW TEMPERATURE HOT WATER | | | | |
| | DRAIN COCK | | | LSV | LOCKSHIELD VALVE | | | | |
| | STRAINER | | | MCHWS | MANS COLD WATER SUPPLY | | | | |
| | FLEXIBLE CONNECTIONS | | | MAY | MANUAL AIR VENT | | | | |
| | FLEXIBLE BELLOW | | | MCC | MOTOR CONTROL CENTER | | | | |
| | FLEXIBLE HOSE (CLEAR BRAIDED) | | | NO | NORMALLY OPEN | | | | |
| | UNION | | | NC | NORMALLY CLOSED | | | | |
| | CHANGE IN MATERIAL | | | P | CIRCULATION PUMP | | | | |
| | FLANGES | | | PHE | PLATE HEAT EXCHANGER | | | | |
| | PUDLE FLANGE | | | PRV | PRESSURE RELIEF VALVE | | | | |
| | CIRCULATION PUMP | | | PDB | POWER DISTRIBUTION BOARD | | | | |
| | DAMPBACK TYPE EXPANSION TANK | | | PU | PRESSURISATION UNIT | | | | |
| | DIRT AND AIR SEPARATOR | | | R/N | RETURN | | | | |
| | THERMAL INSULATION | | | T | TEMPERATURE SENSOR | | | | |
| | THERMAL INSULATION C/W CLADDING | | | TR | TRENCH | | | | |
| | | | | UFH | UNDERFLOOR HEATING | | | | |
| | | | | UFC | UNDERFLOOR COOLING | | | | |
| | | | | VSD | VARIABLE SPEED DRIVE | | | | |

PIPE LINE TYPES

| | |
|-------------------------|--------------------------|
| | 320 PE100 PIPE |
| | 400 PE100 PIPE |
| | 500 PE100 PIPE |
| | 630 PE100 PIPE |
| | 750 PE100 PIPE |
| | 900 PE100 PIPE |
| | 1250 PE100 PIPE |
| | 1600 PE100 PIPE |
| | 1800 PE100 PIPE |
| | 2000 PE100 PIPE |
| | 2250 PE100 PIPE |
| | 2500 PE100 PIPE |
| | STEEL PIPE |
| | COPPER PIPE |
| CABLE LINE TYPES | |
| | POWER CONN. BY OTHERS |
| | CONTROL CONN. BY OTHERS |
| | ELECTRICAL CONN. BY G.I. |

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| Rev | By | Chkd | Appr'd | Date | Description |
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Project
 Drawing
Mechanical Symbol Sheet

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