

**PERMIT TO PRACTICE
EARTH TECH (CANADA) INC.**
Signature _____
Date _____
PERMIT NUMBER: P 005
The Association of Professional Engineers,
Geologists and Geophysicists of the NW/NT

Stamp

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




**CITY of IQALUIT,
Nunavut**

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| Design | TDC |
| Drawn | CFC |
| Approved | |
| Checked | |

Project Title
**CITY of IQALUIT
WASTEWATER
TREATMENT PLANT
PHASE 1**

**P&ID
SYMBOLS AND
IDENTIFICATION**

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| Scale N.T.S. | Date |
| Project No. 75360 | 08.03.05 |
| Drawing No. | Revision |

| FUNCTIONAL IDENTIFICATION | | | | DESCRIPTION | | INSTRUMENT AND FUNCTION SYMBOLS | | PRIMARY ELEMENT SYMBOLS | |
|---|----------|--|--|-------------|--------------------------|--|--|---|--|
| FIRST LETTER (4) | | SUCCEEDING-LETTERS (3) | | I/O TYPES | | | | | |
| WEIGHING INITIATING VARIABLE | MODIFIER | READOUT OR PRESSURE FUNCTION | OUTPUT FUNCTION | MODIFIER | TYPICAL ASSOCIATED COARS | | | | |
| A ANALYSIS | | ALARM | CLOSE-STOP DECREASE CONTROL OR CONTROLLER | DI | DO | | |  | |
| B BURNER COMBUSTION | | CLOSE | DO/AO | DO | DO | | |  | |
| C CONDUCTIVITY, PH (ACIDITY) | | DIFFERENTIAL | OPEN-START-INCREASE | DI | DO | | |  | |
| D DENSITY | | SENSOR (PRIMARY ELEMENT) | | DI | | | |  | |
| E VOLTAGE | | RAID (FRACTION) | | DI | | | |  | |
| F FLOW RATE | | GLASS WEIGHING DEVICE | | DI | | | |  | |
| G GAS | | | | | | | |  | |
| H HAND | | | | DI | | | |  | |
| I CURRENT (ELECTRICAL) | | INDICATE | | AI | | | | | |
| J POWER | | SCAN | | DO/AI | | | | | |
| K TIME, TIME SCHEDULE | | TIME RATE OF CHANGE | CONTROL STATION | DI/AO | | | | | |
| L LEVEL | | LIGHT | | DI | | | | | |
| M MOTOR | | MOMENTARY ON OR OPERATE | | DI | | | | | |
| N MOISTURE | | OPEN CIRCUIT, RESTRICTION POINT TEST) CONNECTION | | DO | | | | | |
| O UNCLASSIFIED | | | OVERLOAD | DO | | | | | |
| P PRESSURE, VACUUM | | PNEUMATIC | | DI/AI | | | | | |
| Q QUANTITY | | TOTALIZE | | AI | | | | | |
| R RADIATION | | RECORD | | AI | | | | | |
| S SPEED, FREQUENCY, SOLENOID | | SAFETY | SWITCH, OR SAFETY TRANSMIT | AI/DO | | | | | |
| T TEMPERATURE | | | | AI | | | | | |
| TO TORQUE | | MULTIFUNCTION | | DI | | | | | |
| U MULTIVARIABLE | | MULTIFUNCTION | VALVE, DAMPER, LOUVER | DI | | | | | |
| V VIBRATION | | | | | | | | | |
| W MECHANICAL ANALYSIS | | WELL | UNCLASSIFIED | | | | | | |
| X WEIGHT, FORCE | | UNCLASSIFIED | RELAY, COMPUTE, CONVERT | DI/DO | | | | | |
| Y EVENT, STATE, PRESENCE | | | UNCLASSIFIED | | | | | | |
| Z POSITION, DIMENSION | | Z AXIS | CONTROL ELEMENT | | | | | | |
| TYPICAL INSTRUMENT IDENTIFICATION | | | | | | INSTRUMENT OPERATING FUNCTIONS | | | |
| NOTE: IN ADDITION TO THE REQUIREMENTS DETAILED BELOW, REFER TO SCADA POINT NAMING CONVENTIONS WHEN INSTRUMENT INTERFACES TO SCADA. | | | | | | ANALYTICAL FUNCTIONS RES C ₂ RESIDUAL CHLORINE SO ₂ SULFUR DIOXIDE COMB COMBUSTIBLE GAS H ₂ S HYDROGEN SULFIDE PH DO O ₂ OXYGEN | | | |
| FIELD TAG IDENTIFICATION | | | | | | SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM) INPUT, OUTPUT, OR FUNCTION. | | | |
| SCHEMAIC IDENTIFICATION | | | | | | SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM) INPUT, OUTPUT, OR FUNCTION. | | | |
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