PORTLAND PUBLIC SCHOOLS

TECHNICAL DESIGN AND CONSTRUCTION STANDARDS

HYDROCARBON UTILITY METERING

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       and6Operations&6Mr-3(ain)6enance O&Mu)als shall e6r-3(sub)6(n)(t-4er-3(d)3(6)]TJETQq0.00000912 0 612 792 re
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H.   Nwrk IPm

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       2.   All6IP cr8mnications shallcoorded6   withr]TJETQq0.00000912 0 612 7896sW(nBT/F1 11.04 Tf1 0 0
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                     docums   . Pv   an Operations6and6Mainnance6 (O&M) mual   6as
       inicated in 6theistrict

    d.   Certificate of Instruction of Owner (District) Personnel.

    e.   As-built documentation of all project submittal data updated to reflect field conditions and execution.

    f.   Final Bill of Material with all installed parts, numbers, and ordering information.

    g.   A schedule of recommended spare parts with part numbers and supplier, including supplier   current phone number.

    h.   All original-issue installation and maintenance manuals, user guides, and other documentation provided with all hardware provided as a part of this specification.

1.10   TRAINING

A.   Provide and document training as indicated in the District

1.11   WARRANTY

A.   The Hydrocarbon Utility Metering manufacturer shall warranty all components installed under this contract to be free of defect in material and workmanship under normal operation and

a period of five (5) years at a minimum.

B.   Hydrocarbon Utility Metering failures during the installation warranty period shall be adjusted, repaired or replaced at no additional cost or reduction in service to the District. Except in the event of property loss or damage, warranty service shall be provided during regular working hours Monday through Friday. The Hydrocarbon Utility Metering Contractor shall respond to failure notifications from the District within twenty-four (24) hours. Repair or replacement of failed components will be scheduled as soon as is feasible.

C.   The Hydrocarbon Utility Metering Contractor shall maintain a record of all work done, all items removed from site, all items returned to the site, all new replacement items installed as a result of Warranty service and shall provide both hard copy (printed) and electronic copies of all work records to the District at the time of service.

1.12   MATERIAL DELIVERY AND STORAGE

A.   Provide factory shipping cartons for each piece of equipment. The Hydrocarbon Utility Metering Contractor is responsible for the storage of equipment and materials inside and protected from the weather.

B.   The Hydrocarbon Utility Metering Contractor is to coordinate with the project General Contractor all on-site laydown and material storage conditions and locations.

C.	The Hydrocarbon Utility Metering Contractor shall maintain a current list of all on-site stored material and shall furnish a copy of this list to the project General Contractor and the District on a regular basis, but no less than monthly for the duration of the project.

D.	The Hydrocarbon Utility Metering Contractor shall provide documentation of all materials stored off-site and listed as stored material in the project billing documents.

PART 2 - PRODUCTS

2.01   ACCEPTABLE MANUFACTURERS

A.   The order of manufacturers does not indicate preference. Inclusion on this list does not guarantee acceptance of products or installation. Hydrocarbon Utility Metering components shall comply with all of the requirements of this specification.

B.   The following are approved Hydrocarbon Utility Metering Manufacturers:

1.   Thermal Instrument Company Series 600 or 62 Series

2.   Siemens Sitrans Series

3.   Fox Thermal Products FT Series

4.   Distributor Approved equal.

C.   The selected product line shall be the most current and complete offering from the manufacturer and shall be actively manufactured as part of the manufacturer products and supported by all qualified installers and service personnel at the time that each project is bid.

D.   No project shall not be used as a test site. First release and test version equipment shall not be implemented on District projects under any circumstances.

E.   Hydrocarbon Utility Metering system components shall be readily available for a minimum of five (5) years after the completion and final acceptance of this project.

2.02   HYDROCARBON FUEL METERS

A.   Hydrocarbon Fuel Meter. Hydrocarbon M9(o)-5(.nQ ET1 0 5BT/ F1 11.04 Tf1 0 g0 G[BON)]TJETOv912 0 612 792

PORTLAND PUBLIC SCHOOLS

TECHNICAL DESIGN AND CONSTRUCTION STANDARDS

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