



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

BUREAU OF ENGINEERING
SUITE 700, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-1402
(615) 741-0791

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

TO: Greg Duncan
Assistant Chief Engineer of Operations

FROM: Jim M. Moore
Program Development Division Director

SUBJECT: Proprietary Item Request and Justification

PIN: 106994.00
Contract #: 090255
County: Williamson
Federal Project No.: STP-M-253(6)
State Project No.: 94LPM-F3-022
Local Agency Reference No.: SEI #907
Description of Project: From 1,200' +/- East of SR-252 (Wilson Pike) to Arrowhead Drive
Project Length: 1.003 Miles

The Division Director, Jim M. Moore, requests approval to utilize the following proprietary items in the subject project:

| ITEM NO. | ITEM DESCRIPTION | UNIT | EST. QTY. |
|-----------|---|------|-----------|
| 795-09.09 | RELOCATE/RECONNECT SERVICE ASSEMBLY (EXISTING METER LOCATION AND ASSEMBLY TO REMAIN IN-PLACE, INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR RE-CONNECTION TO THE NEW MAIN WATER LINE. SENSUS TECHNOLOGIES, INC. IS PRE-APPROVED, SUBSTITUTIONS ARE NOT ALLOWED) | EA | 5 |

Brentwood Reference Sections:

2.8 Residential Water Meter

Project Description

Concord Road (SR 253), from 1200' +/- East of SR 252 (Wilson Pike) to Arrowhead Drive, is a locally managed project. (Federal Project Number, STP-M-253(6); PIN106994.00; Engineer/Owner's Reference No. 907)

The Work is generally described as follows:

1. The complete grading, drainage and pavement of Concord Road (SR 253) to the limits shown on the construction documents.
2. The complete grading, drainage and pavement of all side roads to the limits shown on the construction documents.
3. The complete construction of all private or public ingress/egress entrances to the limits shown on the construction documents.
4. All permanent roadway signage thermoplastic pavement markings to the limits shown on the construction documents.
5. The complete installation of all traffic and erosion control measures as indicated on the construction documents.
6. The complete construction of all drainage structures including, but not limited to, storm and cross drain systems as indicated on the construction documents.
7. The complete construction of a 2,595 linear feet of 12-inch DIP and 180 linear feet of 8-inch DIP inclusive of all fittings, valves, fire hydrants, water meters and service lines on a potable water system as shown on the construction documents.
8. The installations of all curbs, topsoil, sod, bike/pedestrian path, and all incidentals necessary for completion of this project.

NOTE:

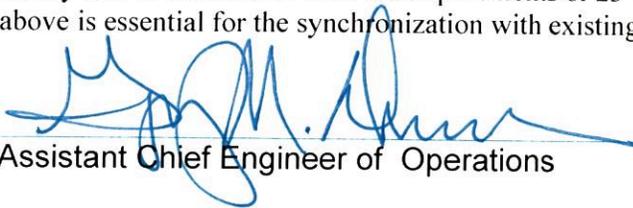
Special Provision 106A – Buy American Requirements are referenced within the project manual.

Justification

The aforementioned water system items are essential for synchronization with existing City of Brentwood facilities. The proprietary items noted above are detailed within the City of Brentwood standards with several already approved options. These water distribution items are used throughout the City with inventory readily available in stock for maintenance and repair of the water distribution system to ensure continued service to the consumer.

If you have any questions or comments, please contact Kim Thompson with the Local Programs Office at 615-532-6083 or Kim.Y.Thompson@tn.gov.

I, Jim M. Moore, Program Development Division Director of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (2) that the patented or proprietary item(s) listed above is essential for the synchronization with existing facilities.


Assistant Chief Engineer of Operations

9/2/14
Date

Recommended for approval: , Director of Traffic Operations Division



City of Brentwood – Water Services Dept.

1750 General George Patton Dr., Brentwood, TN 37027
P.O. Box 788, Brentwood, TN 37024-0788 • Phone (615) 371-0080

Chris Milton, Director
Richard Rigsby, Construction Super.

Todd Spangler, Asst. Director
Travis Lankford, Operations Super.

July 24, 2014

Ms. Whitney Sullivan
Transportation Manager, Local Programs Development Office
Tennessee Dept. of Transportation
Suite 600, James K. Polk Bldg.
505 Deaderick Street
Nashville, TN 37243-1402

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| 795-99.06 | 3/4" REHAU-MUNICIPLEX PIPE, (INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN, IN | LF | 485 |

| ITEM NO. | ITEM DESCRIPTION | UNIT | EST. QTY. |
|----------|---|------|-----------|
| | ACCORDANCE WITH CITY OF BRENTWOOD STANDARD DRAWING W8.) | | |
| | | | |

Brentwood Reference Sections:

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If you have any questions, please contact our office at (615) 371-0080 or at miltonc@brentwood-tn.org

Sincerely,



Chris Milton
Director

cc: Paul Collins, Sullivan Engineering
Mike Harris, City of Brentwood
Richard Rigsby, City of Brentwood



City of Brentwood

5211 Maryland Way • Brentwood, TN 37027 • Phone (615) 371-0080
Mailing Address: P.O. Box 788 • Brentwood, TN 37024-0788

August 6, 2014

Kip Mayton, P.E.
Transportation Manager I
TDOT Local Program Development Office

RE: Brentwood-Concord Road, PIN 106994.00

Dear Kip:

This letter is to provide the necessary information to you concerning two items within the Brentwood Water Services (BWS) Standard Specifications.

First, the use of PEX water service pipe is not a manufacturer or company specific product but a type of pipe. Similar to specifying Ductile Iron Pipe over PVC, PEX pipe is an industry accepted term used for a type of plastic pipe in contrast to Type K Copper. It has been the experience of BWS, and many other utilities in TN, that recent installations using currently available type K copper service lines have been highly susceptible to pin hole leaks and splitting. BWS does not require that PEX used in our system be manufactured or sold by any particular company. This is the service pipe that our crews use to make repairs and any new installation. Due to the nature of this work and the fact that linear feet of service line is not tracked within our asset management program, I am unable to provide the specific amount of PEX currently installed in the ground. However, it is the product that we use for services.

Second, the use of Sensus iPearl meters is extremely critical to our ongoing operations. Currently there are 2253 Sensus iPearl meters installed in the BWS system with more being added daily as we continues to operate a meter change out program. This program is required as BWS transitions to a tower based radio read meter reading system. The Sensus iPearl meter is the only meter that works with the tower reading software and equipment. For this reason it is imperative that only these meters be install on any projects within the BWS service area.

Should you have any questions or comments, please feel free to contact our office at 371-0080.

Sincerely,



Todd A. Spangler
Assistant Director
Brentwood Water Services

cc: Paul Collins, SEI, Inc.