



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243
PHONE: 615-532-0191 FAX: 615-532-0686

March 22, 2018

Mr. Barry Field, PE
Field's Engineering
77 Cother Street
Crossville TN 38555

Re: Crossville Water Department (PWSID# 0000150)
Cumberland County
Project Number DW 18-0321
Fox Den Drive Water Line Extension

Dear Mr. Field:

The Tennessee Department of Environment and Conservation, Division of Water Resources, acknowledges receipt of four sets of final construction documents on March 20, 2018.

This project consists of approximately 4296 feet of 6-inch and 2-inch water lines. As indicated by our stamp, this project has been approved for construction.

This letter, with the enclosed engineering documents bearing our official stamp, constitutes approval by the Commissioner of the Tennessee Department of Environment and Conservation for construction of the referenced facility. Approval is granted in accordance with the Tennessee Safe Drinking Water Act of 1983 and Regulations of the Tennessee Board of Water Quality, Oil and Gas. One complete set of plans and specifications, bearing the official stamp, must be kept at the construction site. Projects utilizing previously approved standard specifications are not required to maintain a stamped copy of the specifications at the construction site. All construction must conform with these approved documents. It is the responsibility of the water utility and/or their engineer to ensure that construction conforms to the plans and specifications. We have retained one copy of this submittal for our records.

Approval expires one year from the stamped approval date unless construction is either underway or complete. Any request for its extension must be made prior to this expiration date. Deviations from the approved plan documents which may affect the quality or quantity of potable water must be submitted and approved in writing before such changes are made.

The Division's appropriate Field Office may desire to schedule an inspection of the construction work to verify compliance with the approved plans and specifications. Therefore the engineer or the water utility shall notify the Cookeville Field Office of the start of construction. This

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notification may be made by completing and mailing the attached "Construction Start Notification" form to the field office.

To expedite matters, please reference the assigned DW Project Number on future correspondence. If we may be of any assistance, please contact us at (615) 532-0191.

Sincerely,



R. William Hench, P.E.
Drinking Water Engineering
Division of Water Resources

RWH/ DWS104

Enclosures: Approved Construction Documents
Construction Start Notification Form

cc: Cookeville Field Office - Division of Water Resources
Crossville Water Department

**Fox Den Drive
6" to a 2" Water Main
(Water Line - Option 2)**

<u>Amt.</u>	<u>Material:</u>		<u>Cost</u>
1,565'	6" Class 250, PVC Pipe	\$ 3.64	\$ 5,696.60
2,835'	2" Class 250, PVC Pipe	\$ 0.65	\$ 1,842.75
4,400'	Water marking tape - 1,000' Rolls	\$ 25.00	\$ 125.00
4,400'	12 Gage Tracing Wire - 500' Rolls	\$ 60.00	\$ 540.00
1	6" Fire Hydrant, 4 1/2 Valve	\$1,400.00	\$ 1,400.00
1	6" Tapping Sleeve	\$ 455.00	\$ 455.00
1	6" Tapping Valve	\$ 593.00	\$ 593.00
1	6" M.J. Tee	\$ 60.00	\$ 60.00
1	6" M.J. Gate Valve	\$ 445.00	\$ 445.00
1	2" M.J. Gate Valve	\$ 280.00	\$ 280.00
1	6" x 2" M.J. Reducer	\$ 25.00	\$ 25.00
4	Valve Boxes	\$ 30.00	\$ 120.00
1	Blow-off Hydrant	\$ 399.00	\$ 399.00
1	2" Threaded Gate Valve	\$ 226.00	\$ 226.00
6	2" M.J., 45° Elbows	\$ 34.00	\$ 204.00
8	6" M.J. Accessory Kits	\$ 12.00	\$ 96.00
15	2" M.J. Accessory Kits	\$ 10.00	\$ 150.00
6	2" x 3/4" Tapping Saddles	\$ 13.20	\$ 79.20
1	6" x 1" Tapping Saddle	\$ 19.75	\$ 19.75
150'	3/4" Copper	\$ 2.15	\$ 322.50
10'	1" Copper	\$ 2.99	\$ 29.90
7	Meter Boxes	\$ 27.00	\$ 189.00
6	3/4" Yokes	\$ 124.10	\$ 744.60
1	1" Yoke	\$ 210.83	\$ 210.83
7	3/4" Stops	\$ 23.90	\$ 167.30
1	1" Stop	\$ 39.00	\$ 39.00
50	1/2" Gravel (Ton)	\$ 16.25	\$ 812.50
Estimated	Top Soil, Grass Seed, Fertilizer, Straw		\$ 2,430.00
			\$ 17,701.93

Labor:

5 men x \$26.67 x 160 hours \$ 21,336.00

Equipment:

1 - Backhoe	\$37.00/hour x 160 hours	\$ 5,920.00
1 - Trencher	\$41.50/hour x 160 hours (Unit 413)	\$ 6,640.00
2 - Service Trucks	\$29.75/hour x 160 hours	\$ 4,760.00
1 - Dump Truck	\$42.25/hour x 160 hours	\$ 6,760.00
1 - Vac Machine	\$28.69/hour x 50 hours (Driveway bores)	\$ 1,434.50
1 - Boring Machine	\$108.75/hour x 50 hours (Driveway bores)	\$ 5,437.50
		\$ 30,952.00

Other Costs:

Engineered Plans \$ 450.00

TDEC Fees \$ 134.00

TOTAL: \$ 70,573.93

NOTE: Possible Trackhoe & rockhammer rental - \$1,500 + day