CHANGE ORDER

PROJECT: Crossville Downtown Economic	ic Development Project - Wate	rmain	
DATE OF ISSUANCE: 02/08/2016	EFFECTIVE DATE: 02/0	08/2016	
OWNER: City of Crossville, 392 North Ma	nin Street, Crossville, TN 3855	5	
CONTRACTOR: Ironwood Construction &	t Engineering, LLC.		
ENGINEER: CT Consultants, Inc.			
You are directed to make the following char	nges in the Contract Document	S:	
Description: North Main Street Watermain	Extension		
Reason for Change Order: Additional quant North Main Street between Neecham Street	1	ting watermain along	
Attachments (list documents supporting cha	nge): 6 pages		
\$1,057,857.00	Subtantial Completion: Ready for final payment:	November 13, 2015 November 13, 2015	
Net changes from previous Change Orders (\$13,708.05)	Net changes from previous Change Orders 80 Calendar Days		
Contract Price prior to this Change Order \$1,044,148.95	Contract Times prior to this Change Order Subtantial Completion: Ready for final payment:	February 1, 2016 February 1, 2016	
Net Increase (Decrease) of this Change Order \$308,768.88	Net Increase (Decrease) of this Change Order 120 Calendar Days		
Contract Price with all approved Change Orders \$1,352,917.83	Contract Times with all approved Change Or Subtantial Completion: Ready for final payment:	May 31, 2016 May 31, 2016	
RECOMMENDED by CT Consultants, Inc.		Date	
APPROVED byCity of Crossville		Date	
ACCEPTED by			
Ironwood Construction	on & Engineering, LLC.	Date	

No. <u>3</u>

Crossville Downtown Economic Development / Streetscape Improvement Project - Watermain Ironwood Construction Engineering, LLC Change Order 03 - Additional Work February 8, 2016

				Quantity		Amount	
				Deduct (-			
Item #	Description	Unit price	Unit	Add (+))	Increase	Decrease
105-01	Line & Grade Survey	\$2,000.00	LS	1.00		\$ 2,000.00	
717-01S	Mobilization	\$5,000.00	LS	1.00		\$ 5,000.00	
712-01S	Traffic Control	\$5,000.00	LS	1.00		\$ 5,000.00	
722-01.01	Field Office (Type I)	\$1,000.00	LS	1		\$ 1,000.00	
202-03	Removal of Sidewalk	\$15.00	SY	1390		\$ 20,850.00	
202-08.10	Removal of Curb	\$10.00	LF	35		\$ 350.00	
209-09.41	Curb Inlet Protection (Type 2)	\$100.00	EΑ	9		\$ 900.00	
801-01.07S	Temporary Seeding (With Mulch)	\$2.00	SY	365		\$ 730.00	
603-05.20	Containment and Disposal of Waste	\$75.00	CY	500		\$ 37,500.00	
501-01S	Trench Repair (Asphalt Area Including Removal)	\$95.00	SY	50		\$ 4,750.00	
630-01.06S	6" DIP PR350 Waterline	\$71.80	LF	178		\$ 12,780.40	
630-01.08S	8" DIP PR350 Waterline	\$76.29	LF	12		\$ 915.48	
630-01.12S	12" DIP PR350 Waterline	\$94.23	LF	1300		\$ 122,499.00	
630-03.01S	M.J. Waterline Fittings	\$3.00	LB	5500		\$ 16,500.00	
630-04.02S	2" Gate Valve w/ Valve Box & Marker	\$1,000.00	EA	4		\$ 4,000.00	
630-04.06S	6" Gate Valve w/ Valve Box & Marker	\$1,900.00	EΑ	3		\$ 5,700.00	
630-04.08S	8" Gate Valve w/ Valve Box & Marker	\$2,100.00	EΑ	1		\$ 2,100.00	
630-05.10S	10" Tapping Sleeve & Valve	\$6,000.00	EA	1		\$ 6,000.00	
630-04.12S	12" Gate Valve w/ Valve Box & Marker	\$4,000.00	EA	1		\$ 4,000.00	
630-06.05S	5-1/4" Fire Hydrant Assembly	\$4,000.00	EA	3		\$ 12,000.00	
630-08.01S	3/4" Water Service Installation	\$1,000.00	EA	2		\$ 2,000.00	
630-08.02S	1" Water Service Installation	\$2,000.00	EA	1		\$ 2,000.00	
630-08.03S	1-1/2" Water Service Installation	\$2,500.00	EA	2		\$ 5,000.00	
630-08.04S	2" Water Service Installation	\$3,000.00	EA	1		\$ 3,000.00	
630-09.01S	3/4" Copper Service Tubing	\$20.00	LF	117		\$ 2,340.00	
630-09.03S	1-1/2" Copper Service Tubing	\$80.00	LF	30		\$ 2,400.00	
630-09.04S	2" Copper Service Tubing	\$100.00	LF	144		\$ 14,400.00	
701-02.02S	Concrete Sidewalk (6")	\$7.00	SF	717		\$ 5,019.00	
702-03S	Concrete Combined Curb & Gutter Type 6-30	\$50.00	LF	35		\$ 1,750.00	
803-01	Sodding (New Sod)	\$1.00	SY	2120		\$ 2,120.00	
204-08.01	Backfill Material (Flowable Fill)	\$85.00	CY	49		\$ 4,165.00	
Additional Work Totals				\$ 308,768.88	\$ -		

Total Increase	\$ 308,768.88
Total Decrease	\$ -
Net Increase	\$ 308,768.88
Original Contract Amount	\$ 1,057,857.00
Net Increase from Previous Change Orders	\$ (13,708.05)
Contract Amount prior to this Change Order	\$ 1,044,148.95
Net Increase from this Change Order	\$ 308,768.88
Contract Amount with all Approved Change Orders	\$ 1,352,917.83



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DIVISION SUITE 600, JAMES K. POLK BUILDING 505 DEADERICK STREET NASHVILLE, TENNESSEE 37243-1402 (615) 741-3196

JOHN C. SCHROER

BILL HASLAM GOVERNOR

Authorization Date: JANUARY 11, 2016

Mr. Kevin Oakes City of Crossville 392 North Main Street Crossville TN 38555

PERMIT NO.: UO-2007045263-2016

201520393

BOND: \$50,000.00

DESCRIPTION: To install approximately 1300' of 12" Class 350 DIP Water main, Fire Hydrants, two service line

bores, and three side road crossings with casings.

Route	Begin LM	Ending LM	County	Start Long/Lat	End Long/Lat
S.R 28,	14.296	14.296	Cumberland (18)	-85.029675,	-85.029667,
(US-127)				35.953558	35.953544
S.R 28,	14.152	14.172	Cumberland (18)	-85.028496,	-85.028658,
(US-127)			04 86	35.951652	35.951915
S.R 28,	14.222	14.242	Cumberland (18)	-85.029067,	-85.029233,
(US-127)	0			35.952568	35.95283
S.R 28,	14.122	14.362	Cumberland (18)	-85.028247,	-85.030183,
(US-127)			· "	35.951253	35.95434
S.R 28,	14.152	14.152	Cumberland (18)	-85.028496,	-85.028488,
(US-127)				35.951652	35.951638
S.R 28,	14.297	14.317	Cumberland (18)	-85.029675,	-85.029825,
(US-127)				35.953558	35.953802

Dear Mr. Kevin Oakes,

Enclosed is an approved drawing covering the installation of the above referenced facilities. This permit was approved **01/11/2016**. The performance of this work will be covered under terms of the enclosed permit or general agreement between the utility and the Department of Transportation and the attached Permit Notes.

Please make sure your work forces have a copy of this approved drawing on hand at all times while working on the state rights-of-way. The attached notes are approval conditions to this permit and drawings.

In accordance with the State's Rules and Regulations, the Utility shall provide appropriate signing at all times during the construction and maintenance of facilities; therefore, signs must be in place before construction begins.

Please notify the District Utility Inspector at least three working days prior to the proposed date to begin work, of the date construction will begin in order to determine if a preconstruction conference is needed and to arrange proper inspection.

DISTRICT UTILITY CONTACT:

Name:

Utilities Office

Address:

P.O. Box 22368 CHATTANOOGA TN 37422

Phone:

(423) 510-1274

Fax:

(423) 510-1131

Cell

(423) 290-5403

E-mail:

Jim.Thompson@tn.gov

The Utility must notify the District Utility Inspector upon completion of the installation in order that a final inspection can be made to facilitate the release of the bond. This permit expires one year from date of issuance.

Regards,



Mr. Jim Thompson | Transportation Technician 3 TDOT Region 2 ROW / Utilities Office / Permits 4005 Cromwell Rd. Chattanooga, TN 37421 p. 423-510-1274 c. 423-290-5403 jim.thompson@tn.gov

tn.gov/tdot

Enclosure:

CC:

Utilities Office

APPROVED AS NOTED

TDOT REGION 2 UTILITY DEPARTMENT

DATE

Note: The permit proprietor will be responsible for the repair of any damage to the roadway or TDOT appurtenances caused by utility construction.

- 2. Note: The Permit Proprietor is to ensure that all Parties associated with this project complies with all "Rules and Regulations for Accommodating Utilities within Highway Rights-of-Ways."
- 3. Note: All installations and repairs are to be installed in compliance to TDOT'S "Rules and Regulations for Accommodating Utilities within Highway Rights-of Ways".
- 4. Note: The Permit Proprietor is responsible for all erosion and sediment control required for the Utility installation
- 5. Note: The T.D.O.T. inspector must be notified at least three (3) days before the commencement of the work to arrange proper inspection to insure a valid permit.
- 6. Note: T.D.O.T. approved drawings and permit must be present at the job site while work is in progress.
- 7. Tenessee811. Dial 811 for Utility locates
- 8. Note: Flaggers and workers in work zones shall wear Safety apparel meeting the requirements of ISEA "American National Standard for High Visibility Apparel" Refer to the latest edition of the "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." (MUTCD), Section 6E.02
- Note: Delineator cones or barrels required along with the proper signage to close shoulders or lanes for Work-Zones or Buffer-Zones according to the latest edition of the "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." (MUTCD)
- Note: Signing and Traffic Control Must be in conformance with the latest edition of the "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." (MUTCD)
- 11. Note: Machinery, materials and workers are not to be located in the roadway, shoulders or in the clear-zones without proper traffic control measures in compliance with the MUTCD requirements. D)
- 12. Note: Stay Out Of Wetlands.
- 13. Note: All logs, stumps, and other construction related debris must be removed from the Right-of-Ways.
- 14. Note: Rule 1680-6-1-.06,(f) Pedestals, fire hydrants, markers, or other above Ground utility appurtenances installed as a part of Underground utility facilities shall be located at or as near the highway Right-of-Way lines as practical. In all cases they must be outside the Clear-Zone.
- 15. Note: Underground Pneumatic Piercing tools (Hammerhead Mole, Hole-Hog, etc..,) shall not be used for boring under State Routes.
- 16. Note: All casings and conduits installed under State Routes shall meet or exceed the minimum AASHTO requirements.
- 17. Note: All steel casings must have continuous welds around every joint.
- 18. Note: The Utility installation must be installed with 36" or more of cover where installed within 5 feet of the drainage ditch.
- 19. Note: Buried installation shall not go over culverts or other TDOT structures.
- 20. Note: All Side Road Crossings must include a steel casing across the side road and if open-cut, the open-cut must be filled with Flowable-fill and repaved.

City of Crossville Engineering Department



392 N Main St. Crossville, TN 38555 Phone 931-484-5113 Fax 931-484-7713

RECEIVED

JAN -8 2016

RIGHT OF WAY

January 08, 2016

Jim Thompson TDOT Utilities Department P.O. Box 22368 4005 Cromwell Road Chattanooga, TN 37422-2368

RE: Permit Number 201520393 - Main St Water Extension (S.R. 28) Water Line.

Dear Mr. Thompson:

The City of Crossville has digitally submitted a revised plan for this project on January 07, 2016 (MAIN ST 12 Inch Water Main New Alignment.pdf). Please review the plans and let us know if there is anything else we need to submit for permitting for the project. Should you have any questions please call me at 931-787-1692.

Sincerely,

Kevin G. Oakes

Engineering Assistant

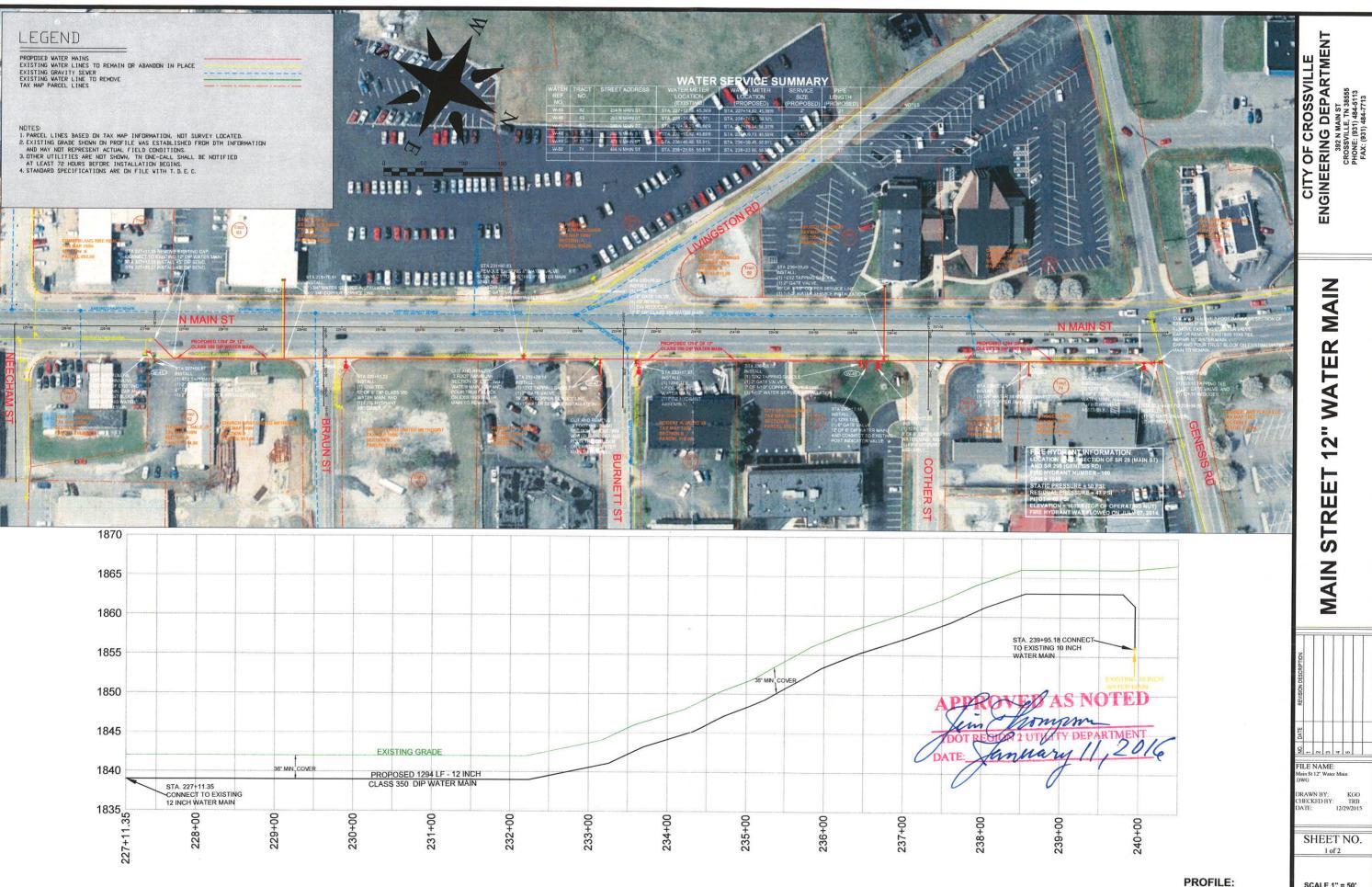
APPROVED AS NOTED

Jem Thompson BOT REGIOSO2 UTILITY DEPARTMENT

anuary

DATE

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MAIN WATER 5 ~ Ш STRE MAIN

SCALE 1" = 50' HORIZONTAL SCALE 1" = 5' VERTICAL

SCALE 1" = 50"

SHEET NO. 1 of 2