

FY2018 CDBG-I WATER SYSTEM IMPROVEMENTS
CDBG-I GRANT #: 18-I-3030

TOWN OF JONESVILLE
JONESVILLE, NORTH CAROLINA

SUBJECT: ADDENDUM NO. 1

FEBRUARY 9, 2021

To the Plans and Specifications for:
FY2018 CDBG-I Water System Improvements
Jonesville, North Carolina

To: PROSPECTIVE BIDDERS AND OTHER CONCERNED PARTIES

This ADDENDUM forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Bidders shall acknowledge receipt of the ADDENDUM in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

A. General

1. Minutes from the Pre-Bid Meeting held on February 2, 2021 and the Pre-Bid Sign-In Sheet is attached.
2. CDBG Information Document attached.

B. Bidding Requirements

1. Section 00410, Bid Form
 - a. Replace Section 00410, Bid Form dated 9/14/2020, with Section 00410, Bid Form dated 2/8/2021.

C. Technical Specification Requirements

1. Section 01270, Unit Prices
 - a. Replace Section 01270, Unit Prices dated 9/14/2020, with Section 01270, Unit Prices dated 2/5/2021.
2. Section 02510, Water Distribution System
 - a. Replace Section 02510, Water Distribution System dated 9/13/2020, with Section 02510, Water Distribution System dated 2/5/2021.

Bids will be received until 2:00 pm, Thursday, February 18, 2021.

FOR THE OWNER
THE WOOTEN COMPANY

BY _____


A. Slade Harvin, P.E.

END OF DOCUMENT

PRE-BID MEETING MINUTES
FY2018 CDBG-I Water System Improvements
CDBG-I Grant #: 18-I-3030
Town of Jonesville, North Carolina

Tuesday, February 2, 2021 — 10:00 A.M.
Town Council Chambers at Jonesville Town Hall
1503 NC Highway 67, Jonesville, North Carolina 28642

1. INTRODUCTION

- **Attendance / Rollcall** (*See attached attendance and sign-in sheet*)
- **Town Comments**
- **Bid Deadline**

Thursday, February 18, 2021; 2:00 PM
Mailed to Town of Jonesville – Town Hall
Michael Pardue, Town Manager
1503 NC Highway 67, Jonesville, NC 28642
Questions can be emailed to the Engineer:
sharvin@thewootencompany.com
Bid opening will be held in the Town Council Chambers
and Virtually

2. PROJECT OVERVIEW

The Project consists of the following major items:

- (1) Main Project: Mineral Springs Rd, Cherry Street, Oakland Blvd, Mathis St. and two (2) alternates including Pickett Street and Cemetery Street
 - Replacement of approximately 7,500 LF of existing 2-inch galvanized and PVC waterlines with new 6-inch PVC waterline
 - Replacement of approximately 3,500 LF of existing 6-inch cement asbestos, steel and cast iron waterlines with 6-inch PVC waterline
 - Installation of approximately 500 LF of looping dead end 6-inch waterlines
 - 149 residential water service reconnections
 - 27 fire hydrant assemblies
 - Associated appurtenances, site work, and erosion control
 - Refer to Bid Form for specific quantities

3. GENERAL

- a. Project Schedule
 - i. Contract Time: 180 Calendar Days Substantial, 210 Calendar Days Final;
 - ii. Final Completion means all closeout documentation submitted;

- b. Coordination
 - i. Coordination with Town Staff is required to minimize operational impacts;
 - ii. Coordinate switchovers at occupied residences with Resident and Town;
 - iii. Additional coordination required in accordance with specifications, permits, encroachment agreements, and regulatory requirements;
 - iv. If shut down of lines is required for connections, 48 hour notification to Town and Contractor responsible for coordinating with affected customers.
- c. Addendum
 - i. Addendum will be issued by February 11, 2021 to provide the minutes from this meeting and responses to questions submitted regarding the project.

4. PROJECT HIGHLIGHTS

- a. Primarily replacement of existing lines within Town limits in residential areas.
- b. All occupied residences must maintain water service for the project duration.
- c. Majority of work will occur within existing streets. Contractor shall maintain access to residences at all times.
- d. Work occurs in multiple areas of Town. Existing utilities are shown where located but verification is the responsibility of the Contractor.

5. FUNDING OF PROJECT

- a. CDBG-Infrastructure Funds No. 18-I-3030
- b. Engineer's Construction Opinion of Probable Cost: ~\$ 1,500,000
- c. CDBG Information Documents (Attached) & Comments from Grant Administrator
- d. Monica Chevalier's contact information included in package.

6. SITE VISIT

- a. Contractors shall coordinate site visits with the Town as appropriate.

7. QUESTIONS

- a. Must be submitted in writing/email by February 8, 2021.
- b. Only items specifically addressed by addendum are binding.

8. OPEN FORUM

Questions from the Pre-Bid meeting as best documented by Slade Harvin and listed in no particular order, with responses prepared after the meeting are listed below:

I. PREVIOUS QUESTIONS

- a. Number of 6-inch gate valves = 16 each
- b. Hydrant Assemblies w/valves = 27 each
- c. Tapping sleeves and valves = 10 each
- d. Water Service Piping:

1.01 POLYETHYLENE PRESSURE PIPE AND TUBING (WATER SERVICE)

- A. Polyethylene pressure pipe and tubing, 1/2-inch through 3-inch, shall conform to AWWA 901 and the following requirements:
 - 1. The line shall be the size indicated on the Drawings and shall be polyethylene tubing.
 - 2. The line shall be made from material having standard PE code designation PE 3408.
 - 3. The line shall have a minimum pressure class of 160 psi with a dimension ratio (DR) of DR-9.

II. QUESTIONS DURING PRE-BID MEETING (2/2/2021)

- Q1. How to address restrained joint pipe in Bid Form.
 - A1. Will revise Bid Form.
- Q2. How to address unsuitable soil.
 - A2. Will review and address as necessary in Bid Form and Unit Prices.

9. CLOSING REMARKS

- a. Refer to CDBG-I items.
- b. Use current Wage Determination.

PRE-BID MEETING SIGN-IN SHEET

FY2018 CDBG-I WATER SYSTEM IMPROVEMENTS

CDBG-I GRANT #: 18-1-3030

TOWN OF JONESVILLE, NORTH CAROLINA

TUESDAY, FEBRUARY 2, 2021 – 10:00 A.M.

COMPANY NAME	REPRESENTATIVE	PHONE OR CELL NUMBER	EMAIL ADDRESS
Carolina Grading & Utilities, Inc.	Andrew Tedder	336-384-3800	andrew@cguinc.com
The Wooten Company	Slade Harvin	252-702-7299	sharvin@thewootencompany.com
Town of Jonesville	Michael W. Pardue	336-835-3426	mpardue@townofjonesville.com
Triad Land Concepts	Josh Vernon	336-462-6923	Josh_Vernon@hotmail.com
Virtual Zoom Meeting Attendees:			
Smith-Rowe, LLC	Bryan Reece	336-409-7061	bryan@smithrowe.com
JR Lynch and Sons, Inc.	Cathy Snow	336-368-4047	csnow@jrlvnchandsons.com
NC DEQ, CDBG-I Program	Allysa Rouse	919-707-9057	allysa.rouse@ncdenr.gov
The Wooten Company	George Collier	919-828-0531	gcollier@thewootencompany.com
The Wooten Company	Kyle Touchstone	919-828-0531	ktouchstone@thewootencompany.com
The Wooten Company	Monica Chevalier	919-828-0531	mchevalier@thewootencompany.com

**Town of Jonesville – Water System Improvements
CDBG-I # 18-1-3030**

CDBG Information Documents

Pre-Bid Conference

Tuesday, February 2, 2021 — 10:00 A.M.

Town Council Chambers at Jonesville Town Hall

1503 NC Highway 67, Jonesville, North Carolina 28642

Virtual Zoom Meeting

<https://us02web.zoom.us/j/84997863183>

Meeting ID: 849 9786 3183

Dial by your location: +1 (301) 715 - 8592

- Compliance Topics
- Davis-Bacon Labor Standards Compliance Processes
- *Wage Decision WD Yadkin Heavy 20210083 Eff 01/01/2021
- HUD Section 3 Business Registry Poster (English & Spanish)
- HUD Section 3 Business Registry Brochure (English & Spanish)
 - Potential Contractors & Subcontractors can register in the national database & state database
 - Local database for residents & businesses
 - *Section 3 Resident & Business Self-Certifications
- NC DEQ Section 3 Informational Brochure
- NC DEQ Compliance Summary Brochure
- Section 3 Business and Resident Poster (English & Spanish)
- *NC DEQ Sample Contractor Outreach for Section 3 Subcontractors
- *Prime Contractor Section 3 Plan
- *NC DEQ MBE-WBE form with common MWBE/HUB/DBE Firm search websites
 - Section 3 outreach concurrent with MWBE/DBE/HUBs. Some of those businesses are potentially also qualify as Section 3
- Community College Info
- HUB Office Info

**All forms with * refer to CDBG portion of the bid documents*

PRE-BID CDBG GENERAL COMPLIANCE TOPICS

TOPICS COVERED	QUESTIONS/COMMENTS
What prevailing wages are, and who gets them.	See Wage Decision provided for prevailing rate for all employees for Davis-Bacon.
How frequently wages must be paid.	Wages to be paid weekly. See Davis-Bacon info.
How to add new classifications to the Wage Decision.	Contact the Project Manager for guidance in completing additional classification requests. Only after awarded contract.
Who contractors can hire.	Encouraged contractor to hire local persons if needs additional employees. (Section 3). Certifications in bid docs for businesses & residents.
What contractors have to tell employees about their wages.	Advised posters must be on site.
When and how to hire apprentices and trainees.	Only if currently enrolled in approved DOL or NC program.
When contractors must pay overtime.	Must pay overtime for over 40 hours in workweek.
When contractors have to pay fringe benefits.	See CDBG compliance instructions for guidance. Ask for calculation assistance.
Contractor's report requirements.	See contract documents and weekly payrolls.
Contractor's equal opportunity (11246) and Section 3 obligations.	See contract documents.
Language Access Plan	Contractor applicability to assist those with limited English proficiency.

CDBG DAVIS-BACON AND FEDERAL LABOR STANDARDS

General Compliance

1. "All laborers and mechanics employed...on construction work financed **in whole or in part**...shall be paid [prevailing wage rates]" (Section 110a of the HCDA of 1974). Because this is project partially funded with federal funds, the entire project is Davis-Bacon applicable.
2. Please read carefully the **Supplementary General Conditions- CDBG Compliance Requirements** in the contract.
Prime/General Contractor responsible for subcontractors
 - a. **Prime/General Contractor** certification forms to be **submitted with the bid** are:
 - I. Attachment 1- Cert. of Bidder Regarding Equal Employment Opportunity (EEO)
 - II. Attachment 3- Cert. of Bidder Regarding Section 3
 - III. Attachment 5-
 - i. Section 3 Affirmative Action Plan
 - ii. **CDBG-I Prime Contractor Section 3 Plan**
 - iii. Proposed Subcontracts Breakdown (Table A) *If using subcontractors*
 - iv. Estimated Project Workforce Breakdown (Table B) *If using own workforce*
 - v. New Hires Report (Table C) *submit annually*
 - vi. Business Utilization Report (Table D) *submit annually*
 - IV. Attachment 8- CDBG Contractor's Cert. Concerning Labor Standards...
 - V. Attachment 10- CDBG Cert. from Contractor Appointing Officer...
 - VI. Attachment 11- Cert. Regarding Lobbying (*pick 1 of 2 templates*)
 - VII. Attachment 13- Employment and Contracting Opportunities Commitment
 - VIII. Attachment 14- NC DWI MBE/WBE/DBE Compliance Supplement:
 - i. Good Faith Efforts Form & Affidavit
 - ii. Prime Contractor & List of Selected Subcontractors (Table A) *Use additional sheets if needed. Should align with Attachment 5, Table A*
 - iii. Subcontractor Solicitation List (Table B) *Use additional sheets if needed. (3 per trade)*
 - IX. Attachment 15- Certificate of Eligibility
 - X. Attachment 16- E-Verify Affidavit
 - b. **Subcontractor** certification forms to be submitted after contract award, **but prior to working on site**.
 - I. Attachment 2- Cert of Subcontractor Regarding EEO
 - II. Attachment 4- Cert of Subcontractor Regarding Section 3
 - III. Attachment 5-
 - i. Section 3 Affirmative Action Plan
 - ii. Attachment 5- Proposed Subcontracts Breakdown (Table A) *If using subcontractors*
 - iii. Estimated Project Workforce Breakdown (Table B) *If using own workforce*
 - iv. New Hires Report (Table C) *submit annually*
 - v. Business Utilization Report (Table D) *submit annually*
 - IV. Attachment 9- CDBG Subcontractor Cert Concerning Labor Standards...
 - V. Attachment 10- CDBG Cert from Contractor Appointing Officer...
 - VI. Attachment 11- Cert. Regarding Lobbying (*pick 1 of 2 templates*)
 - VII. Attachment 15- Certificate of Eligibility
 - VIII. Attachment 16- E-Verify Affidavit
3. Labor posters (**English and Spanish**) need to be placed in a *conspicuous* location on the job site (the work trailer would be ideal):
 - a. Wage Decision(s) - **all pages not overlapped**
 - b. HUD Form 4010- Federal Labor Standards Provisions - **all pages not overlapped**
 - c. Your normal required Federal & NC workplace posters posted (such as e-verify, workers compensation, federal minimum wage, NC DOL 'Wage and Hour Notice' to Employees, 'OSH Notice' to Employees, 'Equal Employment Opportunity is THE LAW', "If You Have the Right to Work"). **Sometimes a giant poster**. All are available here (English & Spanish)
 - <https://www.labor.nc.gov/safety-and-health/publications/state-and-federal-workplace-poster-requirements>
 - <https://www.labor.nc.gov/workplace-rights/employer-responsibilities/all-state-and-federal-workplace-posters>
 - <https://webapps.dol.gov/elaws/posters.htm>
 - d. Employee Rights Under the Davis-Bacon Act (Red & Blue Text Poster with Contact Info) 8.5x11 or 11x17
 - e. Section 3 (English & Spanish) 8.5x11
4. If there are any new hires or business contracts as a result of this project, they need to be reported as part of federal grant requirements. It is encouraged to hire local persons considered low-moderate income and/or provide training opportunities and/or subcontracting with **Section 3** businesses. (**Attachment 5, Section 3 Table C&D**)
5. Any contractor/employee should contact the project administrator as shown on the labor poster if there are any wage disputes or issues.

6. **Please review the wage decision carefully.** All workers need to fall under one of the listed job classifications. If there are workers that do not fall under the listed classifications, after award, we must follow a process to request an **additional classification** from the State and receive approval from U.S. Department of Labor. This process *should* be complete prior to that subcontractor working on the site. Approval from the State and U.S. DOL takes ~60 days. As soon as you know additional trades will be needed, contact **Monica Chevalier, The Wooten Company, 919-828-0531, mchevalier@thewootencompany.com**. DOL does not allow us to proactively request a rate; it has to be proposed by the sub/contractor and the grantee needs to concur.
7. For federal compliance, we're only concerned about on-site labor, not what workers do on other job sites
8. As required, The Wooten Company will have someone visit the site and conduct employee interviews approximately monthly. **Each trade needs to be represented and each phase of the project needs to have interviews conducted.** We will be in constant contact to get a schedule of subcontractor work so that we have a *representation of all trades & contractor crews*. Provide Wooten a schedule *ahead of time*.

Payrolls

1. *The General/Prime contractor is responsible for its own payrolls and all subcontractor payrolls.*
2. The use of the front of U.S. DOL Payroll form (WH-347) is optional, as long as the contractor/ subcontractor has an equivalent that shows all the same information. However, the certification on the back is required.
3. Payrolls are to be numbered weekly. If there are any weeks of no work, indicate "no work" on a numbered payroll. Page 2 still needs to be certified for "no work" payrolls.
4. **Payrolls are submitted weekly (email mchevalier@thewootencompany.com to start review, then send original hardcopies to the Wooten Company in Raleigh). Engineer will review work progress concurrent with Grant Administrator's review of payroll documentation associated with that Pay Application. **No Pay Applications will be processed or recommended for payment until after approval from both Engineering and Grant Administrator.****
5. Do not include entire SSN# on the payrolls (last 4 #s are ok)
6. Fringe Benefits: If fringe benefits are listed on WD, contractor must pay that amount. Can be any combination of cash and fringe benefits to reach WD amount. Fringe benefits must be broken down to an hourly rate per worker (*sample worksheet provided after award*). Examples:
 - a. Allowable: Life insurance, Health insurance, Pension, Vacation, Holiday, Sick leave
 - b. Unallowable: Uniforms, Phone, Company vehicle, Meals/lodging
7. Submit voluntary deduction statements with the 1st week's payroll (*sample template provided after award*)
8. Workers working more than 40 hours in one week *on this site* must be paid for overtime.
9. **Laborers on federal project "fetch, clean & carry": "Helper" is not an eligible classification on Davis-Bacon projects.** If the worker uses tools of trade, then use the classification. For example- If worker is an "electrician helper", they are most likely using the tools of an electrician and should be paid as such.
10. Apprentices or trainees need to be actively enrolled in the State's program (U.S. DOL approved program), and certification of that enrollment included with the payroll. If you have an apprentice, must have a tradesman on site as well, otherwise the apprentice is paid as a tradesman
11. Salaried workers (conducting physical work on the site) need to have their salary recalibrated down to an hourly rate and compared to the WD rate.
12. Owners/foremen/supervisors working with their crew, and working more than 20% of their time that week on the job doing tradesman work, need to be classified as a tradesman on those days.
13. Workers can be identified as 1099 contract employees- employers can designate them on the payroll form as 1099 and not have to list withholding information. Be careful!
14. U.S. HUD looks closely at the ratio of laborers to tradesmen and concerns can be raised if the ratio is above 1:1 (but that ratio also depends on the type of work occurring).
15. **NO PAYMENT REQUESTS WILL BE PROCESSED UNTIL PAYROLL IS APPROVED.**

Enforcement

1. General/Prime contractor needs to make sure all Federal Labor Provisions (HUD-4010, etc.) are in contracts with subcontractors.
2. If Subcontractors do not pay restitution, the Contractor is responsible for payment.
3. For complaints, U.S. HUD takes word of employee over employer. Employer must prove their case, the employee is not required to.
4. If project is closed out and construction is complete and monitoring finds mispayment of contractors, U.S. HUD will go back and determine the amount of funds owed to contractors. Money will be collected by HUD and if workers cannot be found, will be put into escrow.
5. **Annual reporting of Section 3 subcontracts/hires (Attachment 5, Tables C & D)**

If you have any questions and/or need further detail, please contact Monica Chevalier, The Wooten Company, 919-828-0531, mchevalier@thewootencompany.com

SUPPLEMENTARY GENERAL CONDITIONS CDBG COMPLIANCE REQUIREMENTS

Contract Provisions

1. **Conflict of Interest of Members, Officers, or Employees of the Local Governing Body, or other Public Officials Provision**
2. **Legal Remedies Provision**
3. **Termination Provision**
4. **Nondiscrimination Clause, Section 109**
5. **Age Discrimination Clause**
6. **Section 504- Disability Discrimination Clause**
7. **Executive Order 11246 Clause**
8. **Section 3 Clause**
9. **Copeland "Anti-Kickback" Act Provision**
10. **Davis-Bacon Act Provision**
11. **Contract Work Hours and Safety Standards Act Provision**
12. **Access to Records and Record Retainage Clause**
13. **Clean Water, Clean Air, E.O. 11738 and EPA Regulations Provision**
14. **Lead-Based Paint Clause**
15. **Lobbying Clause**
16. **Rights to Inventions Clause**
17. **Debarment and Suspension**

Attachments

1. **Equal Employment Opportunity Certification-Contractor**
2. **Equal Employment Opportunity Certification-Subcontractor**
3. **Section 3 Certification-Contractor**
4. **Section 3 Certification-Subcontractor**
5. **Section 3 Affirmative Action Plan**
6. **Federal Labor Standards Provisions-HUD Form 4010**
7. **Wage Decision(s)**
8. **Labor Standards Certification-Contractor**
9. **Labor Standards Certification-Subcontractor**
10. **Payroll Supervisor Certification**
11. **Anti-Lobbying Certification**
12. **Language Access Plan**
13. **CDBG Employment & Contracting Opportunities Commitment-Contractor**
14. **HUB/MWBE/DBE Certification-Contractor**
15. **Certification of Eligibility**
16. **E-Verify Affidavit**

**JONESVILLE CDBG 18-I-3030
WATER SYSTEM IMPROVEMENTS**

**CDBG DAVIS-BACON AND FEDERAL LABOR STANDARDS
Special Provisions Instructions CDBG-I**

Please read carefully the ***Supplementary General Conditions- CDBG Compliance Requirements*** in the contract. Prime/General Contractors are responsible for subcontractors, including the certifications, payrolls, and inclusion of CDBG provisions in contract documents.

Prime/General Contractor certification forms to be submitted with the bid are:

- Attachment 1- Cert. of Bidder Regarding Equal Employment Opportunity (EEO)
- Attachment 3- Cert. of Bidder Regarding Section 3
- Attachment 5-
 - Section 3 Affirmative Action Plan
 - CDBG-I Prime Contractor Section 3 Plan
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- Attachment 10- CDBG Cert. from Contractor Appointing Officer...
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- Attachment 14- NC DWI MBW/WBE (DBE) Compliance Supplement:
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 - Prime Contractor & List of Selected Subcontractors (Table A) *Use additional sheets if needed. Should align with Attachment 5, Table A*
 - Subcontractor Solicitation List (Table B) *If subcontracting*
- Attachment 15- Certificate of Eligibility
- Attachment 16- E-Verify Affidavit

Subcontractor certification forms to be submitted after contract award, but prior to working on site.

- Attachment 2- Cert. by Proposed Subcontractor Regarding EEO
- Attachment 4- Cert. of Proposed Subcontractor Regarding Section 3
- Attachment 5-
 - Section 3 Affirmative Action Plan
 - Proposed Subcontracts Breakdown (Table A) *If using subcontractors*
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- Attachment 15- Certificate of Eligibility
- Attachment 16- E-Verify Affidavit

Note

- If there are any new hires or business contracts as a result of this project, they need to be reported as part of federal grant requirements. It is encouraged to hire local persons considered low-moderate income and/or provide training opportunities and/or subcontracting with Section 3 businesses. (*Attachment 5, Section 3 Table C&D*)
- *Please review the wage decision carefully.* All workers need to fall under one of the listed job classifications. If there are workers that do not fall under the listed classifications, we must follow a process to request an *additional classification* from the State and receive approval from U.S. Department of Labor. This process cannot occur until after award.

"General Decision Number: NC20210083 01/01/2021

Superseded General Decision Number: NC20200083

State: North Carolina

Construction Type: Heavy

Counties: Davie, Forsyth, Stokes and Yadkin Counties in North Carolina.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number 0 Publication Date 01/01/2021

SUNC2011-064 08/26/2011

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 13.98	0.69
ELECTRICIAN.....	\$ 15.41	3.13
LABORER: Common or General.....	\$ 10.00	0.00
LABORER: Pipelayer.....	\$ 12.87	2.21
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 16.16	3.18

OPERATOR: Bulldozer.....	\$ 14.63	0.00
OPERATOR: Loader.....	\$ 15.13	2.79
TRUCK DRIVER.....	\$ 13.19	1.84

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal

process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

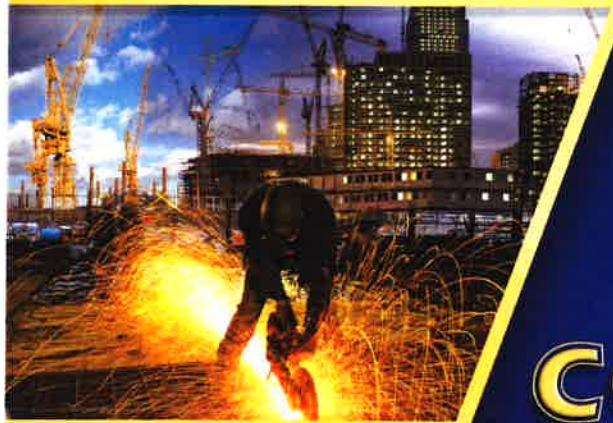
END OF GENERAL DECISION

"



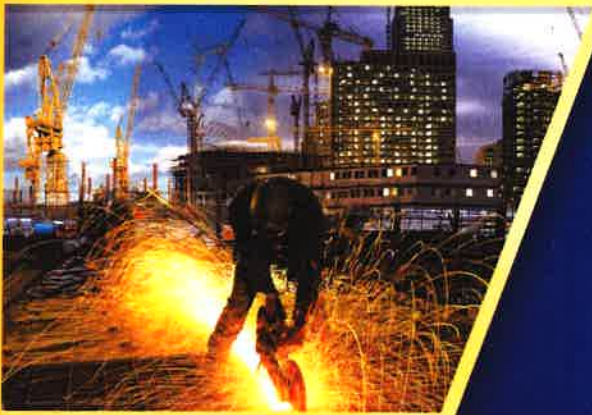
HUD's Section 3 Business Registry

GET CONNECTED TO LOCAL CONTRACTS



www.hud.gov/sec3biz

To order additional copies, reference publication number: HUD-9872-FHEO



Registro comercial de Sección 3 de HUD

CONÉCTESE CON LOS CONTRATOS LOCALES



www.hud.gov/sec3biz

Para recibir copias adicionales, consulte la publicación número: HUD-9872-FHEO
Spanish

potentially misrepresented themselves. In such situations, HUD will request documentation to verify the businesses' eligibility. Businesses that are found to have misrepresented themselves will be removed from the Section 3 Business Registry and penalized (see HUD's Section 3 Business Registry webpage for more information).

To search for Section 3 businesses in your community, register your business, or learn more about HUD's Section 3 Business Registry, please visit: www.hud.gov/Sec3biz

SECTION 3 AND HUD-FUNDED CONTRACTS

Section 3 requirements provide preference but not a guarantee to Section 3 residents and Section 3 businesses when new jobs, training, or contracting opportunities are created as a result of HUD funds. Section 3 residents and businesses are not entitled to jobs or contracts simply because they meet the eligibility criteria. Section 3 residents and businesses may need to demonstrate that they have the ability to perform successfully under the terms and conditions of proposed contracts and meet the qualifications for jobs or contracts they are seeking.

Section 3 residents or businesses that believe that they have been denied employment, training, or contracting opportunities associated with HUD-funded projects are encouraged to file a complaint with HUD at the appropriate Regional Office of Fair Housing and Equal Opportunity (FHEO). A copy of the Section 3 Complaint Form (HUD-958) and a list of FHEO Regional Offices can be found online at: www.hud.gov/Section3



U.S. Department of Housing and Urban Development



8804

HUD Form 972-English

www.hud.gov/Section3



HUD SECTION 3

BUSINESS REGISTRY

WHAT IS SECTION 3?

Section 3 is a provision of the Housing and Urban Development (HUD) Act of 1968 that helps foster local economic development, neighborhood improvement, and individual self-sufficiency.

HUD investments in local communities represent one of the largest sources of federal funding, and the expenditure of these funds typically results in new contracts and jobs. The Section 3 requirements stipulate that local low-income persons, and businesses that substantially employ those persons, receive priority consideration for a percentage of new training, employment, and contracting opportunities that are created from certain HUD funds.

Please visit www.hud.gov/section3 for more information on the requirements of Section 3.

WHAT IS A SECTION 3 BUSINESS?

If your business meets one of the following criteria, you may be eligible to receive priority consideration when bidding on certain HUD-funded contracts or subcontracts:

- 1) 51 percent or more owned by Section 3 residents; or
- 2) At least 30 percent of full-time, permanent staff are Section 3 residents (or were Section 3 residents within the last 3 years); or

- 3) Evidence of a commitment to subcontract 25 percent or more of the total dollar amount of all subcontracts to businesses that meet one of the criteria listed above.

WHO ARE SECTION 3 RESIDENTS?

If you meet one of the following criteria, you may be eligible to receive priority consideration when applying for certain HUD-funded jobs and training opportunities:

- 1) Public housing residents; or
- 2) Low and very low-income persons who live in the metropolitan area or Non-metropolitan County where covered HUD funding is spent.

To determine income eligibility in your community visit: <http://www.huduser.org/portal/datasets/il.html>

WHAT IS THE SECTION 3 BUSINESS REGISTRY?

The Section 3 Business Registry is a listing of businesses that have self-certified that they meet one of the eligibility criteria of a Section 3 business, and have submitted publicly available information about their firm (i.e. business name, address, type of services provided, etc.) to be included HUD's online database.



The Section 3 Business Registry will be used by Public Housing Authorities (PHAs); State, County, and local government agencies; property owners; developers; contractors; and others as a resource for finding local Section 3 businesses to be notified about HUD-funded contracting opportunities. Section 3 residents are also encouraged to use the registry to locate Section 3 businesses that may have new HUD-funded jobs as a result of recently awarded HUD-funded contracts.

HUD will maintain the Section 3 Business Registry to assist agencies that receive HUD funds with meeting their Section 3 obligations. However, HUD does not verify information submitted by businesses and does not endorse the services they provide. Therefore, grantees and other users should perform due diligence to confirm eligibility before awarding contracts to firms in the Section 3 Business Registry.

Contact HUD at sec3biz@hud.gov if you believe firms in HUD's Section 3 Business Registry have

continued

elegibilidad de los negocios. Los negocios con respecto a los cuales se determina que han tergiversado su información serán eliminados del Registro Comercial de la Sección 3 y serán sancionados (vea la página Web del Registro Comercial de la Sección 3 para obtener más información).

Para buscar negocios de Sección 3 en su comunidad, inscriba su negocio o aprenda más sobre el Registro Comercial de la Sección 3 de HUD, y visite: www.hud.gov/Sec3biz

LA SECCIÓN 3 Y LOS CONTRATOS FINANCIADOS POR HUD

Los requisitos de la Sección 3 proveen preferencia, pero no una garantía a los residentes de Sección 3 y negocios de Sección 3 cuando se crean nuevas oportunidades de trabajo, capacitación o contratación como resultado de los fondos de HUD. Los residentes y negocios de Sección 3 no tienen derecho a los trabajos o contratos simplemente porque cumplen con los criterios de elegibilidad. Es posible que los residentes y negocios de Sección 3 tengan que demostrar que tienen la capacidad para funcionar con éxito bajo los términos y condiciones de los contratos propuestos y reunir los requisitos para los trabajos o contratos que buscan.

A los residentes y negocios de la Sección 3 que creen que se les han denegado oportunidades de empleo, capacitación o contratación asociadas con proyectos financiados por HUD se les anima a que presenten un queja ante HUD en la Oficina Regional de Equidad en la Vivienda e Igualdad de Oportunidades (FHEO) apropiada. Se puede encontrar una copia del Formulario de Quejas de Sección 3 (HUD-958) y una lista de Oficinas Regionales del FHEO en línea a: www.hud.gov/Section3



Departamento de Vivienda y Desarrollo Urbano EE.UU.



8804

HUD Form 972 - Spanish

www.hud.gov/sec3biz



¿QUÉ ES LA SECCIÓN 3?

La Sección 3 es una disposición de la Ley de Vivienda y Desarrollo Urbano (HUD) de 1968 que ayuda a promover el desarrollo económico local, la mejora de vecindarios y la autosuficiencia individual.

Las inversiones de HUD en las comunidades locales representa una de las fuentes mayores de financiamiento federal, y el gasto de estos fondos típicamente genera nuevos contratos y trabajos. Los requisitos de la Sección 3 estipulan que las personas locales de bajos ingresos, y los negocios que emplean en gran parte a dichas personas, reciben una consideración prioritaria para un porcentaje de las nuevas oportunidades de capacitación, empleo y contratación creadas a partir de ciertos fondos HUD.

Visite www.hud.gov/section3 para obtener más información sobre los requisitos de la Sección 3.

¿QUÉ ES UN NEGOCIO DE SECCIÓN 3?

Si su negocio cumple uno de los siguientes criterios, es posible que reúna los requisitos para recibir una consideración prioritaria al hacer ofertas para ciertos contratos o subcontratos financiados por HUD:

- 1) Residentes de Sección 3 propietarios del 51 por ciento o más; o
- 2) Por lo menos el 30 por ciento del personal permanente a tiempo completo son residentes de Sección 3 (o fueron residentes de Sección 3 durante los últimos 3 años); o

- 3) Prueba de un compromiso a subcontratar un 25 por ciento o más de la cantidad total en dólares de todos los subcontratos a negocios que reúnan uno de los criterios indicados arriba.

¿QUIÉNES SON RESIDENTES DE SECCIÓN 3?

Si usted cumple con uno de los siguientes criterios, es posible que reúna los requisitos para recibir consideración prioritaria al postularse para ciertos trabajos y oportunidades de capacitación financiados por HUD:

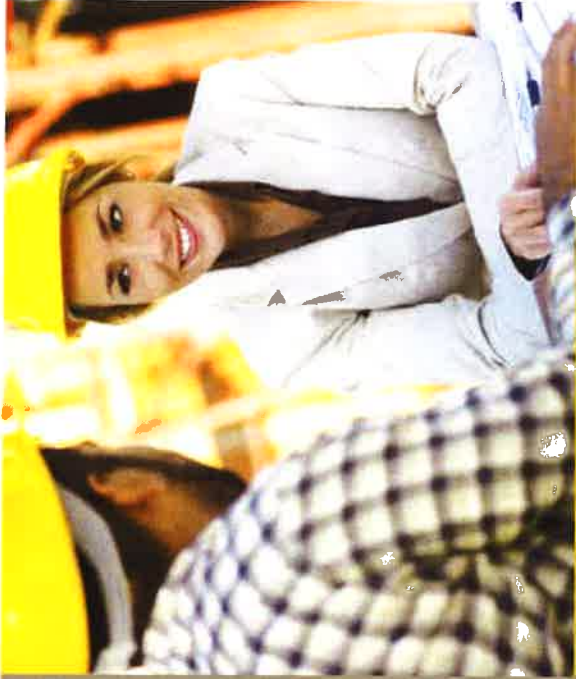
- 1) Residentes de vivienda pública; o
- 2) Personas de ingresos bajos o muy bajos que viven en el área metropolitana o en el condado no-metropolitano donde se gastan fondos HUD cubiertos.

Para determinar la elegibilidad basado en los ingresos en su comunidad, visite: <http://www.huduser.org/portal/datasets/il.html>

¿QUÉ ES EL REGISTRO COMERCIAL DE LA SECCIÓN 3?

El Registro Comercial de la Sección 3 es un listado de los negocios que autocertifican que han cumplido uno de los criterios de elegibilidad de un negocio de Sección 3 y han presentado información públicamente disponible sobre su empresa (es decir, razón social, dirección, tipo de servicios prestados, etc.) a incluirse en la base de datos de HUD en línea.

El Registro Comercial de la Sección 3 será utilizado por las



Autoridades de Viviendas Públicas (PHAs); agencias del estado, condado y de los gobiernos locales; propietarios; urbanizadores; contratistas; y otros, como recurso para localizar los negocios locales de Sección 3 para informarles sobre las oportunidades de contratación financiada por HUD. A los residentes de Sección 3 también se les anima a que utilicen el Registro para localizar negocios de Sección 3 que puedan tener nuevos trabajos financiados por HUD como resultado de contratos recientemente adjudicados con financiamiento HUD.

HUD mantendrá el Registro Comercial de la Sección 3 para ayudar a las agencias que reciben fondos HUD a cumplir con sus obligaciones bajo la Sección 3. Sin embargo, HUD no verifica la información presentada por los negocios, y no patrocina los servicios que proveen. Por lo tanto, los beneficiarios y otros usuarios deben realizar la debida diligencia para confirmar la elegibilidad antes de adjudicar contratos a las empresas en este Registro Comercial de la Sección 3.

Comuníquese con HUD a sec3biz@hud.gov si cree que hay empresas incluidas en el Registro Comercial de la Sección 3 que potencialmente hayan tergiversado su información. En tales situaciones, HUD solicitará documentación para verificar la

continúa





Equal Housing Opportunity Administration

Contact Us

L. Marcela Vargas
NC Department of Environmental Quality
Division of Water Infrastructure CDBG-I Unit
Mailing Address - 1633 Mail Service Center, Raleigh,
North Carolina, 27699-1633
Street Address - 512 N. Salisbury St, Raleigh, North
Carolina, 27604
919 707 9057
l.marcela.vargas@ncdenr.gov
<http://portal.ncdenr.org/web/wj/cdbg-i>

NC DEQ DIVISION OF WATER INFRASTRUCTURE CDBG-I

The CDBG-I program provides grants to local government units to address water and wastewater infrastructure needs in HUD qualified low to moderate income communities.



Water Infrastructure
ENVIRONMENTAL QUALITY

Section 3

Job Creation and Economic
Opportunity
(Section 3 - 24 C.F.R Part 135)





What is Section 3?

The Section 3 program requires that recipients of certain HUD financial assistance, to the greatest extent feasible, provide job training, employment, and contracting opportunities for low- or very-low income residents in connection with projects and activities in their neighborhoods.

HUD programs covered by Section 3 (to distinguish between HUD Public and Indian housing programs) are those that provide housing or community development assistance for housing rehabilitation, housing construction, or other public construction project.

work performed under the contract is subject to the requirements of Section 3

Ensure that employment and other economic opportunities generated by CDBG - HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State, and local laws and regulations, be directed to low- and very low-income persons.

Section 3 is designed to direct those opportunities to local residents and businesses, minimum Numerical Goals:

- 30% of new hires annually
- 10% of the total dollar amount of covered construction contracts
- 3% of the total dollar amount of covered non-construction contracts

How can businesses find Section 3 residents to work for them?

- Businesses can recruit Section 3 residents in public housing developments and in the neighborhoods where the HUD assistance is being spent. Effective ways of informing residents about available training and job opportunities are:
- Contacting resident organizations, local community development and employment agencies
 - Distributing flyers
 - Posting signs
 - Placing ads in local newspapers

Who are Section 3 Residents?

- Public housing residents or
- Persons who live in the area where a HUD-assisted project is located and who have a household income that falls below HUD's Income Limits.

Determining Income Levels

- Low income is defined as 80% or below the median income of that area.
- Very low income is defined as 50% or below the median income of that area.

What is a Section 3 business concern?

- A business that:
- Is 51 percent or more owned by Section 3 residents;
 - Employs Section 3 residents for at least 30 percent of its full-time, permanent staff; or

- Provides evidence of a commitment to subcontract to Section 3 business concerns, 25 percent or more of the dollar amount of the awarded contract.

Who will provide the Economic Opportunities?

Recipients of HUD financial assistance and their contractors and subcontractors are expected to develop a Section 3 Plan to assure that economic opportunities to the greatest extent feasible are provided to low and very low-income persons and to qualified Section 3 businesses.

One element of that Plan is the use of a Section 3 clause which indicates that all

Contact Us

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NC DEQ DIVISION OF WATER INFRASTRUCTURE CDBG-I

The CDBG-I program provides grants to local government units to address water and wastewater infrastructure needs in HUD qualified low to moderate income communities.



Equal Housing Opportunity logo



Water Infrastructure
ENVIRONMENTAL QUALITY

COMPLIANCE

SUMMARY





Community Development Block Grant (CDBG):

Develop strategies that bring partners and resources together, leveraging funds and building on community assets.

States award grants to smaller units of general local government that develop and preserve decent affordable housing, to provide services to the most vulnerable in our communities, and to create and retain jobs.

3. Use of Minority and Women's Business Enterprises (Executive Orders 11625, 12432, and 12138)

The minimum HUD standards require that each participating jurisdiction's outreach effort to minority and women-owned businesses be a good faith, comprehensive and continuing endeavor.

4. Labor Standards (Davis Bacon and Related Acts)

"All laborers and mechanics employed... on construction work financed in whole or in part . . . shall be paid [prevailing wage rates]." **Section 110a of the HCDA of 1974**

All contracts must incorporate the appropriate federal labor standards provisions, and the applicable wage decision.

"Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses." **29 CFR 5.5 (a) (1) (ii).**

- Review decisions for missing classifications
- Discuss with contractors early
- Submit request after contract award
- Work not represented on wage decision
- Area practice
- "Reasonable relationship" standard
- Consent of all parties

Contractor Responsibilities

1. Nondiscrimination in programs and activities

Contractors are responsible for ensuring that all projects assisted with CDBG funds are made available on a non-discriminatory basis: that is, without regard to race, color, religion, sex, disability, familial status, age, or national origin (Civil Right Act).

Contractor Shall comply with:

- Equal Employment Opportunity
- Language Access (Title VI)
- Persons with Disabilities Access (Section 504)

2. Job Creation and Economic Opportunity (Section 3 - 24 C.F.R Part 135)

Ensure that employment and other economic opportunities generated by CDBG - HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State, and local laws and regulations, be directed to low- and very low-income persons.

Section 3 is designed to direct those opportunities to local residents and businesses, minimum Numerical Goals:

- 30% of new hires annually
- 10% of the total dollar amount of covered construction contracts
- 3% of the total dollar amount of covered non-construction contracts

Town of Jonesville

Community Development Block Grant (CDBG)

What is Section 3?

Section 3 of the U.S. Housing and Urban Development Act of 1968 requires that economic opportunities generated by certain HUD financially assisted housing and community development programs shall, to the greatest extent feasible, be given to low and very low-income persons, particularly those who are recipients of government assistance for housing, and to businesses that provide economic opportunities for these persons.

Who is responsible for Section 3 Compliance?

Every community who receives financial assistance from HUD for Community Development projects and all of their contractors and subcontractors are responsible to offer any new training, employment or contracting opportunities to Section 3 or Section 3 businesses.

Who are Section 3 residents?

Public housing residents including persons with disabilities and Low or very-low income persons who live in the area where a HUD assisted project is located.

What is a Section 3 business?

A business owned by Section 3 residents, or that employs Section 3 residents, or subcontracts with businesses which employ Section 3 residents.

What Opportunities are available under Section 3?

- Jobs and Employment opportunities
- Training and Educational opportunities
- Contracts and Business opportunities

Current federally assisted projects in this area subject to Section 3 requirements:

Water System Improvements

Town of Jonesville

Type of Project

Location

For additional information contact:

Wendy Thompson

Town Clerk

Town of Jonesville

1503 NC Hwy 67

Jonesville, NC 28642

Phone: 336-835-3426

Fax: 336-835-3231

Email: wthompson@townofjonesvillenc.com

www.jonesvillenc.gov

North Carolina

Department of Environmental Quality

Division of Water Infrastructure

1633 Mail Service Center

Raleigh, North Carolina, 27699-1633

Phone: 919-707-9057



An Equal Opportunity \ Affirmative Action Employer



Town of Jonesville

Community Development Block Grant (CDBG)

¿Qué es la Sección 3?

La Sección 3 (Section 3, por su nombre en inglés) de la Ley de 1968 de Vivienda y Desarrollo Urbano (Housing and Urban Development, por su nombre en inglés) requiere que las oportunidades económicas generadas por determinados programas para el desarrollo de la vivienda y la comunidad asistidos financieramente por HUD deberán, dentro del máximo alcance posible, ser otorgadas a las personas de ingresos bajos a muy bajos, particularmente a aquéllas que son beneficiarias de la asistencia gubernamental para la vivienda y a los negocios que ofrezcan oportunidades económicas para dichas personas.

¿Quién es responsable del acatamiento de la Sección 3?

Cada comunidad que recibe asistencia financiera de HUD para los proyectos del Desarrollo Comunitario y todos sus contratistas y subcontratistas son responsables de ofrecer cualquier tipo de nueva capacitación, oportunidad de empleo o contrato para la Sección 3 o los negocios de la Sección 3.

¿Quiénes son los residentes de la Sección 3?

Los residentes de la vivienda pública, incluidas las personas discapacitadas y todas aquéllas con ingresos bajos o muy bajos que viven en el área donde se encuentra un proyecto de HUD.

¿Qué es un negocio de la Sección 3?

Un negocio propiedad de la Sección 3 o que emplea residentes de la Sección 3 o subcontrata a negocios que emplean a residentes de la Sección 3.

¿Qué oportunidades están disponibles de acuerdo con la Sección 3?

- Oportunidades de trabajo y empleo
- Oportunidades de capacitación y educación
- Oportunidades de contrato y negocios

Proyectos con asistencia federal actual en esta área que dependen de los requisitos de la Sección 3:

Sewer System Improvements

Tipo de proyecto

Town of Jonesville

Ubicación

Para información adicional comunicarse con:

Wendy Thompson

Town Clerk

Town of Jonesville

1503 NC Hwy 67

Jonesville, NC 28642

Phone: 336-835-3426

Fax: 336-835-3231

Email: wthompson@townofjonesvillenc.com

www.jonesvillenc.gov

North Carolina

Department of Environmental Quality

Division of Water Infrastructure

1633 Mail Service Center

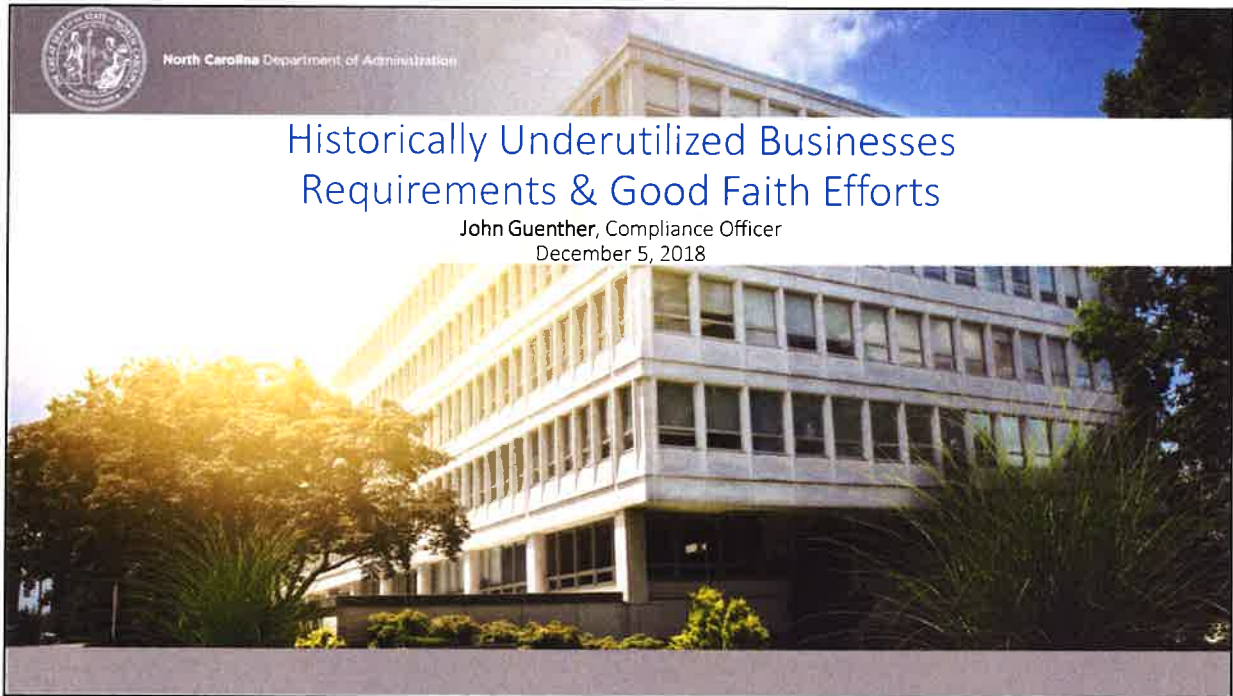
Raleigh, North Carolina, 27699-1633

Phone: 919-707-9057



An Equal Opportunity \ Affirmative Action Employer





Historically Underutilized Businesses Requirements & Good Faith Efforts

John Guenther, Compliance Officer
December 5, 2018

HUB Office



The Office for Historically Underutilized Businesses promotes diversity and inclusion in state government procurement and contracting

- HUB Certification
- Encourages use of Historically Underutilized Businesses
- Business Development with HUB vendors
- Compliance Reports - construction and goods/services purchases

Legislative Background



General Statutes related to HUB spending and reporting

- NC GS 143-48 - State Policy to use HUB vendors, reporting requirements for purchase of goods and services
- NC GS 143-131 – Informal bids for buildings, soliciting minority participation, records and reporting
- NC GS 143-128.2 – Minority business participation goals, good faith efforts. 10% goal for state building projects
- NC GS 143-128.3 – Reporting on building projects \$300,000+
- NC GS 143-128.4 – Historically Underutilized Businesses defined

Guidelines for Recruitment and Selection of Minority Businesses for Participation in State Construction Contracts – Detailed description of responsibilities, definitions, dispute procedures

HUB Vendor Requirements



Per NC General Statute 143-128.4:

- At least 51% of business is owned by one or more persons who are members of at least one of the groups in 143-128.4 (b)
- The management and daily business operations must be controlled by at least one owner in one of the groups in 143-128.4 (b)
- Certification is managed by the HUB Office

HUB Certification Categories

- Black
- Hispanic
- Asian American
- American Indian
- Female
- Disabled
- Disadvantaged

Self identified categories (HUB does not certify):

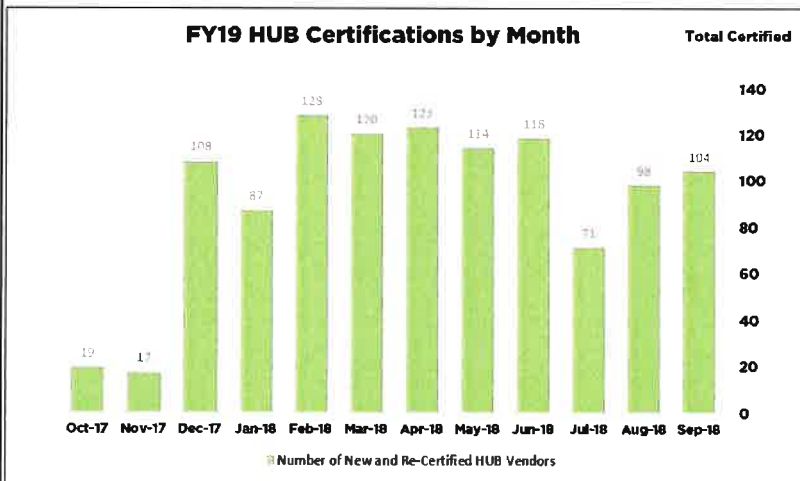
- Disabled Business Enterprise
- Nonprofit Work Center for the Blind and Severely Disabled

How are HUB Vendors Certified?

- 3 part certification process
 - Online registration through NC electronic Vendor Portal (eVP)
 - Submit completed SWUC application
 - Submit required documentation supporting status of business, ownership and management
- Reciprocity options exist (including NC DOT)
- 4 year certification with recertification option
- No annual update
- No fee



HUB Certifications by Month



Total HUB Vendors: 4,300+

- **Architectural Services:** 229
- **Engineering Services:** 334
- **General Contractors:** 581
- **Electrical Contractors:** 562
- **Mechanical / Heating Contractors:** 37
- **Plumbing/Fire Sprinkler Systems Contractor:** 61
- **General Trades / Sub Contractors:** 943

Identifying / Verifying HUB Vendors

- Statewide Uniform Certification, Search for Vendor Information:
<https://www.ips.state.nc.us/vendor/searchvendor.aspx?t=h>
- All firms in this search are HUB certified firms
 - Can search by City, County
 - Can search by type of trade / service / construction licenses
 - Count changes frequently



North Carolina Department of Administration



This page allows you to search for vendors by one or more selection criteria. To search for a vendor, enter your search criteria in the form below and click the SEARCH button. If any criteria do not apply simply leave that item blank.

Vendor Number: _____

Company Name: (type in just the first 3 or 4 letters to expand your results) _____

Contact Last Name: (type in just the first 3 or 4 letters to expand your results) _____

Email Address: (type in just the first 3 or 4 letters to expand your results) _____

HUB Certification: Yes No

Small Business: Not Specified

City: _____

County: HUB uses the county key and click to select multiple counties
 ---A---
 ALBANY
 ALEXANDER
 ALLEGHANY

HUB Reporting



- **Construction spending** (*any public entity* spending \$30,000+ on a building project)
 - Reporting System for local entities is HUBSCO
- **Purchasing of Goods and Services**
 - State Agencies, Universities, Community Colleges, School Systems
 - **NOT REQUIRED** for Counties, Municipalities, other local government entities

North Carolina Department of Administration

Creating a HUBSCO Account

In order to use HUBSCO, public entities (schools, counties, municipalities etc.) request access.

Submit Access Form to help set up public entity account

Two levels of access, Public Entity User and Public Entity System Administrator:

- **User** can enter information about projects.
- **System Administrator** can enter information about projects and add/modify users.

Includes Verifiable Percentage Goal

HUBSCO Construction Reporting System Access Request Form
 City of Raleigh, NC
 Phone: 919.977.2100 Fax: 919.977.2105 Email: HUBSCO@nc.gov

PUBLIC ENTITY INFORMATION (NOTE: Public Entity is the Public Entity Owner)

Public Entity Name: _____
 Public Entity Address: _____
 City: _____
 County: _____
 State: _____

Verifiable Percent Goal Information

Public Entity Verifiable Percent Goal (if applicable): _____ % Set to zero (0) if the Public Entity does not utilize Percentage Goals by Ownership Category (see below)

1) Date Verifiable Percent Goal Established: _____

2) Verifiable Percent Goal Certification / Verification Method: _____

3) Verifiable Percent Adoption Means (i.e. - Board Minutes, Internal Policy, etc.): _____

How was the percentage goal determined? (i.e. - SE514, Internal Disparity Study, etc.)
 How was the goal approved or put in place? _____

Verifiable Percent Goal by Ownership Category: (if applicable)

Ownership Category	Public Entity Goal (%)	Ownership Category	Public Entity Goal (%)
State		County and Municipality	
Regional		Public Enterprise	
Local Enterprise		Other Entity	

Approved Users/ID

User Name: _____
 User ID: _____
 Email: _____

Administrative Information

Requester Name: _____
 Requester Title: _____
 Requester Email: _____

Monthly Business Outreach Plan

A Monthly Business Outreach Plan has been developed and implemented (check appropriate to): Yes No

Plan has been implemented (if applicable): Yes No

Approval of Agency Head

I hereby authorize the individual(s) listed above to submit their Public Entity information in an effort to comply with construction reporting requirements as mandated by SE514.

Date: _____
 Printed Name of Agency Head: _____
 Signature of Agency Head: _____

Construction Reporting Due Dates



Period	Dates	Due Date
1 st Quarter	July 1 to September 30	October 10
2 nd Quarter	October 1 to December 31	January 10
3 rd Quarter	January 1 to March 31	April 10
4 th Quarter	April 1 to June 30	July 10

Reminders are e-mailed quarterly to all HUBSCO users

Projects entered in HUBSCO



- **Minority participation recruitment and reporting requirements apply for building construction, repair, and renovation projects:**
 - Projects that are \$30,000 and above
 - DEQ requires reporting for waste water treatment systems, wastewater collection systems, water supply systems and water conservation projects
 - Goals depend on the dollar value and if any state funds are used
 - Good faith efforts need to be made to include minority vendors
 - Reporting required when projects are completed
 - Do not have to report pre-fabricated / relocatable buildings

Local Government contributions to HUB participation



- **Construction, Repair and Renovation (FY 17-18):**
 - **11 of 115 school districts** reported any construction spending and \$56.7 million in HUB spend (30.11%)
 - **7 of 553 municipalities** reported any construction spending and \$19 million in HUB spend (19.89%)
 - **4 of 100 counties** reported any construction spending and \$14 million in HUB spend (37.78%)

Mark Your Calendars



- Report Due Date: FY19 Quarter 2 (Oct – Dec) report due Thursday **January 10, 2019**
- Next HUBSCO reporting webinars
 - Thursday **December 6, 2018**, 10:30 AM – Noon
 - Thursday **January 3, 2019**, 10:30 AM – Noon
- Topics:
 - Legislation
 - Goal Setting
 - Good Faith Efforts
 - How to Find HUB Vendors
 - Reporting in HUBSCO



Questions?



Contact Information

- HUB Office
 - Website: <http://www.doa.nc.gov/hub/>
 - Main Office Phone: 919-807-2330
 - Email: HUBOffice.DOA@doa.nc.gov

- John Guenther, Compliance Officer
 - 919-807-2436
 - John.Guenther@doa.nc.gov





North Carolina Community College System



ApprenticeshipNC: A Talent Driven Training Strategy



Today's Discussion



**Elements of
Apprenticeship
Programs and Standards**



**Apprenticeship
Registration**



Why Registered Apprenticeship?

Build a Competitive Workforce

Employers Facing Complex Workforce Challenges in Competitive Domestic and Global Markets

Time-Tested Model

Proven Strategy for Recruiting, Training and Retaining World-Class Talent Used by Industry for Decades (and longer!)

Adaptable and Flexible

Registered Apprenticeship is a Solution and Can Be Integrated into existing Training and Human Resources Development Strategies!!!



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What is Registered Apprenticeship?



Employer Involvement



Structured On-the-Job Learning



Job Related Education/Instruction



Rewards for Skill Gains



National Occupational Credential

Five Core Components of Registered Apprenticeship



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Structured On-The-Job Learning (OJL)

- Work-based Learning Developed with Industry/Employers
- Minimum of 2,000 Hours = One Year of Training
- Over 1,000 Apprenticeable Occupations
- Credit awarded for previous training received



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Structured On-the-Job Learning Model Types



Time-Based Model



Competency Based Model



Hybrid Model (Time and Competency)

- Time – Sets a required number of hours of On-The-Job Learning and Related Education/Instruction
- Competency – Progression is based on the apprentice's pace and demonstrated competency in skills and knowledge through proficiency testing. No requirement to complete a specific number of hours.
- Hybrid – Uses a minimum and maximum range of hours and the successful demonstration of identified and measured competencies.



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Job Related Education/Instruction

Job Related Education/Instruction Training Providers

- Vocational and/or Technical Schools
- Community Colleges or Universities
- Industry Associations
- Labor Non-Union and Union Organizations
- In-House or Sponsor

Job Related Education/Instruction Delivery Methods

- ✓ Classroom
- ✓ Correspondence
- ✓ Electronic Media/Online

Minimum of 144 Contact Hours Per Year (No Maximum)



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Progressive Wages for Skill Attainment

Incremental Wage Increases

- ✓ Federal Minimum Wage (\$7.25 per hour)
- ✓ Performance Based

Credit for Previous Experience

- ✓ Documented Work Experience
- ✓ Documented Educational Experience
- ✓ Customized Training (Community College)
- ✓ Pre-Apprenticeship Experience
- ✓ Military Veterans

Wage Progression = Skills Progression

Apprentice Wages % of Journeyworker Wage Rates



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Registered Apprenticeship Credentials



Employer Credentials

Nationally Recognized Certificate of Registration

Apprenticeship Credentials

Nationally Recognized Certificate of Completion

Stackable Credentials

Opportunity to Earn College Credits, Certificates, Diplomas & Degrees



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Basic Sponsor Responsibilities



Employ Apprentices Full Time

- Program sponsor does not have to be the employer
- Apprentices must train in all phases of the occupation
- Coordinate On-the-Job Learning and Related Instruction to maximize effectiveness of training



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Basic Sponsor Responsibilities

Provide Job Related Education/Instruction for Apprentices



- Apprentices do **Not** have to be paid for related education/instruction hours
- Job Related Education/Instruction is conducted during or after work at the discretion of the employer
- Partnerships can be made with high schools through college readiness curriculum, career academies, Career and Technical Education, and work-based learning programs



Basic Sponsor Responsibilities

Desire to Develop Skilled Workforce!



- Registered Programs Require Minimal Sponsor Administrative Activities
- Technical Assistance Services to Employers from ApprenticeshipNC Staff
- Support from strategic partners



Apprentice Minimum Requirements



- Minimum eligible age for an Apprentice is 16 years old
- **Apprentices 16 & 17** years of age **must** have parental consent
- Apprentices must have: U.S. Citizenship, permanent residency status, or a Visa that permits employment in the U.S.
- Ability to Satisfy Sponsor Additional Minimum Requirements:
 - Education, Physical Ability, Background Checks, Drug Testing, etc.
- Ability to successfully complete their on-the-job learning and Job Related Education/Instruction
- **Desire to Earn – Learn – Succeed!**

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Registered Apprenticeship Program Development Process

Step 1
Contact Us



Contact
ApprenticeshipNC
Representative
Consultant

Step 2
Build Program



Collaboration with
Sponsor to develop
Training Program

Step 3
Program Check



Review and Approval
of Customized
Standards of
Apprenticeship
Developed Based on
Sponsor's Operational
Input

Step 4
Program Registered



Sponsor
Receives Finalized
Standards of
Apprenticeship and
Certificate of
Registration
Documents

Step 5
Launch Program



Employer Implements
Registered
Apprenticeship
Program

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ApprenticeshipNC Opportunities

- US DOL Apprenticeship Expansion and Continuation Grants
 - Curriculum Classes
 - Continuing Education, Books, and Supplies
 - Identification of CC Regional Apprenticeship Coordinators
- Workforce Innovation and Opportunity Act (WIOA)
 - On-the-Job Learning
 - Books, Tuition and Supplies
 - Supportive Services
- Work Opportunity Tax Credit (WOTC)

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USDOL Grants: Education Assistance

- Funds available to reimburse education expenses for Curriculum or Continuing Education
 - Pre-Apprenticeship
 - Registered Apprenticeship
- Industry Sectors:
 - Advanced Manufacturing
 - Construction
 - Energy
 - Healthcare
 - Hospitality
 - Information Technology
 - Logistics
 - Public Safety



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North Carolina Community College System
State of North Carolina



COMPLETION OF APPRENTICESHIP CERTIFICATE AWARDED TO

Victor Lawrence

*In recognition of successful completion of the terms of apprenticeship in accordance
With the law and standards of the State of North Carolina in the trade of*

Mechatronics Technician

On this day, September 8, 2018, under the sponsorship of

Raleigh Durham Industries

Kathryn P. Cantelero
Apprenticeship Director

Sponsor

Johnathan
NC Community College System, President



North Carolina Community College System

The United States Department of Labor

Office of Apprenticeship
Certificate of Completion of Apprenticeship

This is to certify that

Alexandra Foley

has completed an apprenticeship for the occupation

Shift Supervisor

under the sponsorship of

CVS Health

*in accordance with the basic standards of apprenticeship
established by the Secretary of Labor*

DATE



John V. Hill
Assistant Secretary



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Registered Apprenticeship is a “Win-Win-Win-Win”

Apprentices

- Earn-and-Learn
- Incremental Pay Increases
- Earn college credit
- Training under qualified mentors
- Learn on-the-job with current technology and equipment
- Career development

Community Colleges

- Closer industry relationships
- Articulation between apprenticeship and college programs ensures relevance and rigor
- Increased enrollment in credit classes
- Increased program graduations

Businesses

- Effective recruitment tool
- Expand education and training options
- Increased employee retention
- Trained and educated workforce
- Address pipeline concerns
- Transfer knowledge, skills, and expertise
- Develop future leadership

North Carolina

- Aligns with key workforce system initiatives
- Learn and train locally
- Economic contributor
- Employed apprentices raise families, and purchase goods, services, and homes
- Future business leaders



North Carolina Community College System



Consultant Map
Rev 7-17-2018

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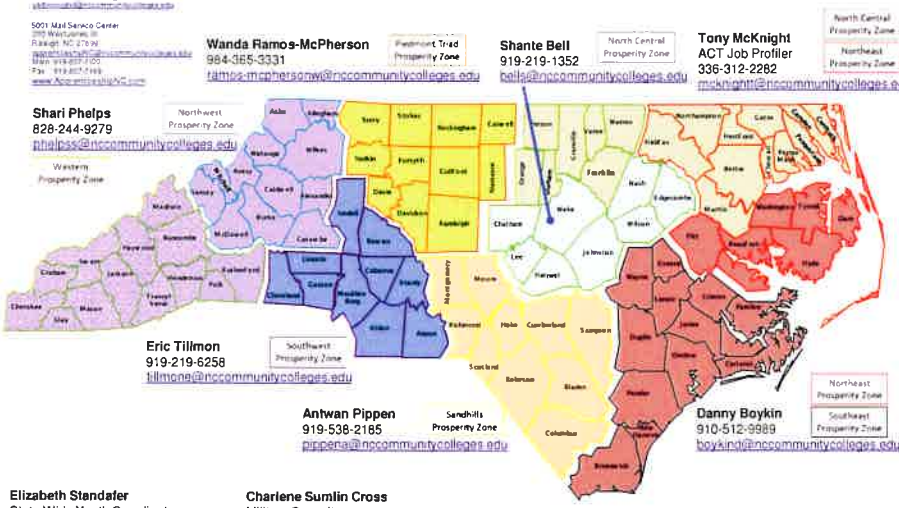
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Partner with ApprenticeshipNC

Registered Apprenticeship is a flexible and proven workforce development strategy that can help grow talent at your company.



 North Carolina Community College System



North Carolina
Community College System

Open Discussion:

Questions/Concerns/Opportunities

BID FORM

PROJECT: FY18 CDBG-I Water System Improvements

CONTRACT: CDBG-I Grant No. 18-I-3030

BID FROM: _____

TABLE OF ARTICLES

	<u>Page</u>
Article 1 – Bid Recipient.....	1
Article 2 – Bidder’s Acknowledgements	1
Article 3 – Bidder’s Representations	1
Article 4 – Bidder’s Certification	2
Article 5 – Basis of Bid.....	3
Article 6 – Time of Completion.....	4
Article 7 – Attachments to this Bid	4
Article 8 – Defined Terms	5
Article 9 – Bid Submittal.....	5

ARTICLE 1 BID RECIPIENT

1.01 This Bid is Submitted To:

Town of Jonesville
Attention: Michael Pardue, Town Manager
1503 NC Highway 67
Jonesville, NC 28642

1.02 Undersigned bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Bidding Documents to perform the Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in the Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Advertisement and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

Addenda _____

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to federal, state and local Laws and Regulations that may affect cost, progress, and performance, of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in SC-4.02, and (2) reports and drawings of Hazardous Environmental Conditions, if any, that have been identified in SC-4.06 as containing reliable "technical data".
- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- J. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.

ARTICLE 4 BIDDER'S CERTIFICATION

4.01 Bidder further represents that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

- A. For Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated below.

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Estimated Price
1.	Mobilization/Traffic Control	LS	1		
2.	6-inch PVC C-900 Water Line	LF	7,840		
3.	6-inch PVC C-900 Water Line (LOOPING)	LF	500		
4.	6-inch DIP Waterline	LF	980		
5.	6-inch Gate Valve Assemblies	EA	16		
6.	6-inch Tapping Sleeve & Valve	EA	10		
7.	Fire Hydrant Assemblies	EA	27		
8.	Replace Water Service (main to meter)	EA	149		
9A.	Roadway Repairs – Paving	SY	1,100		
9B.	Roadway Repairs – Patching	SY	3,480		
10.	Clean-Up and Seeding Along Utility Pipelines	LS	1		
11.	Silt Fence	LF	2,319		
12.	Rock Check Dam	EA	15		
13.	Inlet Protection	EA	15		
14.	6-inch Tree Removal	EA	1		
15.	Select Backfill	CY	320		
Total of All Unit Bid Price Items:					

Total Unit Price Bid Items = Total Bid Price \$ _____

(written out)

- B. Unit Prices have been computed in accordance with paragraph 11.03.B of the General Conditions.
- C. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents. Determinations of actual quantities and classification are to be made by Engineer as provided in paragraph 9.07 of the General Conditions.
- D. For the following ALTERNATES as selected by the Owner for inclusion in the Project as follows for Pickett St. and Cemetery St. if favorable bid prices are received:

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Estimated Price
A. PICKETT STREET - ALTERNATE					
A1.	Mobilization/Traffic Control	LS	1		
A2.	6-inch PVC C-900 Water Line	LF	570		
A3.	6-inch DIP Water Line	LF	40		
A4.	6-inch Gate Valve Assemblies	EA	0		
A5.	Fire Hydrant Assemblies	EA	1		
A6.	6-inch Tapping Sleeve & Valve	EA	1		
A7.	Silt Fence	LF	310		
A8.	Inlet Protection	EA	0		
A9.	Rock Check Dam	EA	0		
A10.	Roadway Repairs – Patching	SY	240		
A11.	Select Backfill	CY	20		
Total of ALTERNATE Unit Bid Price Items:					

Total ALTERNATE Unit Price Bid Items = Total Bid Price \$ _____
(written out)

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Estimated Price
B. CEMETERY STREET - ALTERNATE					
B1.	Mobilization/Traffic Control	LS	1		
B2.	6-inch PVC C-900 Water Line	LF	1,655		
B3.	6-inch Gate Valve Assemblies	EA	2		
B4.	Fire Hydrant Assemblies	EA	4		
B5.	6-inch Tapping Sleeve & Valve	EA	2		
B6.	Silt Fence	LF	1,260		
B7.	Inlet Protection	EA	2		

B8.	Rock Check Dam	EA	3		
B10.	Roadway Repairs – Patching	SY	580		
B11.	Select Backfill	CY	60		
Total of ALTERNATE Unit Bid Price Items:					

Total ALTERNATE Unit Price Bid Items = Total Bid Price \$ _____

(written out)

ARTICLE 6 TIME OF COMPLETION

6.01 Bidder agrees that the Work will be completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 ATTACHMENTS TO THIS BID

7.01 The following documents are attached to and made a condition of this Bid. Failure to provide the documentation with the bid may be grounds for rejection of the bid.

- A. Required Bid security in the form of a Bid Bond (EJCDC No. C-430) or Certified Check (**circle type of security provided**).
- B. Community Development Block Grant Requirements (CDBG): **Attachments are included behind Supplementary Conditions.**
 1. Att 1, Certification of Bidder Regarding Equal Employment Opportunity
 2. Att 3, Certification of Bidder Regarding Section 3 and Segregated Facilities
 3. Att 5, Section 3 Affirmative Action Plan & Tables
 5. Att 8, Contractor's Certification Concerning Labor Standards and Prevailing Wage Requirements
 6. Att 10, Certificate From Contractor Appointing Officer or Employee To Supervise Payment of Employees
 7. Att 11, Certification Regarding Government-Wide Restriction on Lobbying and Disclosure of Lobbying Activities
 8. Att 13, CDBG Employment & Contracting Opportunities
 9. Att 14, Good Faith Efforts Form
 10. Att 14, Table A: Prime Contractor and List of Selected Subcontractors
 11. Att 14, Table B: Subcontractor Solicitation List with Documentation
 12. Att 15, Certificate of Eligibility
 13. Att 16, E-Verify Affidavit

- a. In accordance with GS 64-26(a), Bidders shall submit the E-Verify Affidavit to document that the work authorization of their employees has been verified through E-Verify. The Affidavit shall also document that the Bidder's subcontractors comply with E-Verify.

7.02 Submit the Bidder's Checklist as provided in the bidding documents with the bid submittal. The Checklist shall be completed and included as the first page of the submittal.

7.03 In accordance with GS 143-128 the Single Prime Contractor must identify the Contractors, if any, selected for the following subdivision of work:

A. General Construction

Name: _____

Address: _____

N.C. License No.: _____

B. HVAC Construction

Name: _____

Address: _____

N.C. License No.: _____

C. Plumbing Construction

Name: _____

Address: _____

N.C. License No.: _____

D. Electrical Construction

Name: _____

Address: _____

N.C. License No.: _____

7.04 Bidder understands that if this Bid is accepted by the Owner, Bidder shall not substitute for the subcontractors named in the Bid Documents except as allowed in the Supplementary Conditions.

ARTICLE 8 DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 BID SUBMITTAL

9.01 Contractor's License

A. Number: _____

B. Classification: _____

C. Limitation: _____

Employer's Tax ID No.: _____

Business Address

Phone No.: _____

Fax No.: _____

E-Mail Address: _____

9.02 This Bid Submitted by:

An Individual

Name: _____
(Type or print)

By: _____
(Individual's Signature)

Doing Business As: _____
(Type or print)

A Partnership

Partnership Name: _____

The Organization and Internal Affairs of the Partnership are governed by the laws of the State of: _____

By: _____
(Signature of general partner, attach evidence of authority to sign)

Name: _____
(Type or print)

Title: _____
(Type or print)

Attest: _____
(Signature of Corporate Secretary)

A Corporation

Corporation Name: _____

State of Incorporation: _____

Type (General Business, Profession, Service, Limited Liability):

By: _____
(Signature, attach evidence of authority to sign)

Name: _____
(Type or print)

Title: _____
(Type or print)

Attest: _____ Corporate Seal
(Signature of Corporate Secretary)

Date of Qualification to do business in North Carolina is _____.

Limited Liability Company – LLC

Name of LLC: _____

Name of State under whose Laws the Limited Liability Company
was formed: _____

By: _____
(Signature of Manager)

Name: _____
(Type or print)

Title: _____
(Type or print)

END OF DOCUMENT

SECTION 01270

UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Delineation of measurement and payment criteria applicable to Work performed under Contract by the unit price payment method.

1.02 FIELD MEASUREMENT

- A. Take measurements and compute quantities for submittal of the monthly pay request unless specified otherwise in the measurement paragraphs as indicated in this Section.

1.03 CHANGE IN QUANTITIES

- A. Increase in the quantity of a bid item above what is indicated in the Bid Form shall only be made by a Change Order as required by the Contract Documents.
- B. A final adjusting Change Order shall be made for adjustment of the actual quantities installed prior to submittal of the final pay request.

1.04 GENERAL

- A. Items with a "(X)" in the title of the following bid items represents the size or depth as indicated on the Bid Form.
- B. Method of measurement for the individual Bid Items shall be as specified below.
- C. Payment for each item shall be in accordance with the Contract Unit Price times the number of units installed in accordance with the Contract Documents.
- D. Work for each bid item shall include, but not be limited to, the work listed below and the labor, materials, equipment, and services required and reasonably implied by the Contract Documents for a complete installation.
- E. Administrative cost including, but not limited to, video and photographic records of existing and post construction of project site, coordination of construction activities (including but not limited to updating master construction schedule, providing weekly tasks schedule, coordination with owner, engineer, utility providers, permitting agencies, etc.), as-built documentation, and office administration for the Project construction shall be included in the individual unit price items.

1.05 MOBILIZATION

- A. Measurement shall not be made for this item.
- B. Work shall include administrative cost including, but not limited to, mobilization, bonds, insurance, project signage, shop drawing submittal, and construction trailers. General office administration for the Project construction shall be included in the individual unit price items.
- C. Bid Price for Mobilization shall not exceed 3 percent of the total bid. Half of the mobilization may be requested on the first pay request and the remainder on the second.

1.06 UTILITY PIPING

- A. Measurement: Measure horizontally or from station to station as shown or indicated on the Drawings for the various types and sizes of pipes installed.
 - 1. (X) inch Water Main: No deduction will be made for space occupied by valves or fittings.
- B. Work shall include, but not be limited to (unless specifically noted otherwise on the Bid Form and this specification Section), the following:
 - 1. Clearing and grubbing where necessary.
 - 2. Traffic control.
 - 3. Temporary removal and restoration or temporary support of, but not limited to, existing mail boxes, signs, fences, shrubs, plants (under 6 feet in height), guard rails, power and telephone poles.
 - 4. Excavating, shoring and bracing where required, dewatering as required, installing, backfilling (including Class I material as specified for the pipe bedding, haunching, and initial backfill).
 - 5. Installation of warning / identification tape over utilities.
 - 6. Installation of tracer wire on non-metallic utilities.
 - 7. Temporary support and protection of existing underground facilities.
 - 8. Pipe, concrete blocking and encasement, connection to existing piping, and fittings.
 - 9. Flushing and testing.
 - 10. Repair to damaged new and existing utilities.
 - 11. Adjust existing and new manhole and valve boxes to finished surface elevations.
 - 12. Cutting and removal of existing paved surfaces. Patching of existing paved surfaces shall be paid as indicated in the paragraph, "Patching of Asphalt and Concrete Pavement."
 - 13. Grade disturbed areas to original surface profile prior to seeding.
- C. Water: Work shall include disinfection.
- D. Payment: The first Application for Payment will be approved based on the utilities installed during the agreed upon payment period without testing. Subsequent Application for Payments shall not be approved by the Engineer unless utilities installed during the previous payment period have passed the specified tests and clean up and seeding is complete.

1.07 CLEANUP AND SEEDING ALONG UTILITY PIPELINES

- A. Measurement: Along pipe centerline.
- B. Work: Shall include the full width of the disturbed area for the cleanup and seeding along pipeline construction. Work shall include, but not be limited to, the following:
 - 1. Removal and proper disposal of debris and excess material.
 - 2. Grade disturbed areas to original surface profile prior to trench excavation.
 - 3. Cleaning of paved surfaces.
 - 4. Proper seeding of disturbed area including mulching.
 - 5. Obtain approval of cleanup from owner of right-of-way.

- C. Total Contract Price of cleanup and seeding must be equal to a minimum of fifteen (15) percent of the total cost of pipeline work.
- 1.08 BID ITEMS LISTED BY THE UNIT "EACH" (EA)
- A. Measurement: By the number installed.
 - B. Water work items:
 1. (X) inch Valve and Box: Valve, valve box, concrete setting pad, concrete top collar, and valve markers as shown in contract.
 2. (X) inch x (X) inch Tapping Sleeve and Valve: Tapping sleeve, valve, valve box, concrete setting pad and concrete top collar.
 3. Fire Hydrant Assembly: Fire hydrant, hydrant tee, hydrant elbow, standpipe extension(s), concrete base, blocking, bridle rods and rod collars, the 6 inch gate valve (including valve box, concrete setting pad and concrete top collar) and 6 inch pipe from the water main to hydrant.
 4. 3/4-inch Water Service Changeover: Excavation, backfilling, and compacting, 3/4-inch service pipe from main to existing water meter, tapping new water main, service saddle, corporation stop, and connection of new service line to existing service at meter box.
 - C. Erosion control work items:
 1. Rock Check Dam: Excavation, riprap, #5 washed stone, maintenance during construction, and final removal and clean up.
 2. Inlet Protection: Silt fence installation with #5 washed stone, maintenance during construction, and final removal and clean up.
- 1.09 (X) INCH STEEL ENCASEMENT PIPE BY BORE AND JACK WITH (CARRIER PIPE)
- A. Measurement: Along the centerline of the various sizes of steel encasement pipes installed.
 - B. Work: Excavation and backfilling for bore pit, encasement pipe, and carrier pipe installed in encasement pipe with spacers and casing seals. Include costs for the provision of bonds, insurance and inspection fees required by the respective agency or authority in charge of inspection of the encasement pipe.
- 1.10 ASPHALT ROADWAY REPAIRS - PATCHING
- A. Measurement: Measure by the square yard along centerline of pavement cut times the pipe OD plus two feet. Payment shall not be made for pavement repair required due to excessive open cut caused by Contractor.
 - B. Work: Backfilling, compacting, stone sub-base, asphalt at the depths as specified.
- 1.11 ROADWAY REPAIRS – 1.5-INCH ASPHALT S9.5A OVERLAY
- A. Measure by the square yard installed.
 - B. Work: Complete asphalt overlay including the required pavement clean up, primer, and asphalt.
- 1.12 TREE REMOVAL (X)
- A. Measurement: By the number removed.
 - B. Work: Complete removal of tree to allow for construction, removal and disposal of tree from site, backfilling, grading and reseeding.

1.13 SELECT BACKFILL

- A. These items shall be paid for at the unit bid price per cubic yard of off-site select backfill for backfill and compaction of pipeline trench where on site material is not suitable.
- B. Payment shall include only the cost of off-site material as placement and compaction of the trench backfill is already included in the unit bid price of the pipeline. Material will only be placed at the direction of the Owner's representative. Actual payment shall be based upon the actual cubic yardage as measured by the delivery truck, less 30% for compaction and truck counts verified by the Owner's representative.

PART 2 PRODUCTS
NOT USED

PART 3 EXECUTION
NOT USED

END OF SECTION

SECTION 02510

WATER DISTRIBUTION SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Work under this section includes, but is not limited to, piping, valves, fire hydrants, water service line, and appurtenances for a complete potable water distribution system.

1.02 RELATED SECTIONS

- A. The following Sections have work that is directly related to this Section. This does not relieve the Contractor of his responsibility of proper coordination of all the work:
 - 1. Section 02315 Trenching for Utilities

1.03 REFERENCES

- A. Publications are referred to in the text by basic designation only.
 - 1. American Society for Testing and Materials (ASTM)
 - a. C443 Flexible Watertight Joints for Precast Manhole Sections
 - b. C478 Precast Reinforced Concrete Manhole Sections
 - c. C890 Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures
 - d. C923 Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.
 - e. D1784 Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds
 - f. D1785 Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
 - g. D2241 Poly(Vinyl Chloride) (PVC) Pressure Rated Pipe (SDR Series)
 - h. D2467 Socket-Type Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
 - i. D3139 Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
 - j. D3350 Polyethylene Plastics Pipe and Fittings Materials.
 - k. F477 Elastomeric Seals (Gaskets) for Joining Plastic Pipe
 - l. F1483 Specification for Oriented Poly(Vinyl Chloride) PVCO, Pressure Pipe
 - 2. American Water Works Association (AWWA)
 - a. B300 Hypochlorites
 - b. B301 Liquid Chlorine
 - c. C104 Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water
 - d. C105 Polyethylene Encasement for Ductile-Iron Piping for Water and Other Liquids
 - e. C110 Ductile-Iron and Gray-Iron Fittings, 3 inch through 48 inch, for Water and Other Liquids
 - f. C115 Flanged Ductile-Iron Pipe with Ductile Iron or Gray Iron Threaded Flanges
 - g. C150 Thickness Design of Ductile Iron Pipe
 - h. C151 Ductile-Iron Pipe, Centrifugally Cast, for Water
 - i. C153 Ductile-Iron Compact Fittings, 3 inch through 24 inch and 54 inch through 64 inch, for Water Service

- j. C502 Dry-Barrel Fire Hydrants
- k. C504 Rubber-Seated Butterfly Valves
- l. C508 Swing-Check Valves for Waterworks Service, 2 inch Through 24 inch NPS
- m. C509 Resilient Seated Gate Valves for Water and Sewerage Systems
- n. C510 Double Check Valve Backflow-Prevention Assembly
- o. C511 Reduced-Pressure Principle Backflow-Prevention Assembly
- p. C512 Air-Release, Air / Vacuum, and Combination Air Valves for Waterworks Service
- q. C515 Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service
- r. C550 Protective Epoxy Interior Coatings for Valves and Hydrants
- s. C600 Standard for Installation of Ductile Iron Water Mains and Their Appurtenances
- t. C605 Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water
- u. C651 Disinfecting Water Mains
- v. C701 Cold-Water Meters-Turbine Type, for Customer Service
- w. C702 Cold-Water Meters-Compound Type
- x. C900 Polyvinyl Chloride (PVC) Pressure Pipe, 4 inch through 12 inch, for Water Distribution
- y. M23 PVC Pipe - Design Installation
- 3. National Sanitation Foundation (NSF) Standards
 - a. 14 Plastic Piping Components and Related Materials
 - b. 60 Drinking Water Treatment Chemicals – Health Effects
 - c. 61 Drinking Water System Components - Health Effects

1.04 SUBMITTALS

- A. Submit the following in accordance with Section 01330, Submittal Procedures:
 - 1. Affidavit of Compliance: Affidavit shall attest that supplied products conform to the referenced standard and this specification and that all tests set forth in each applicable referenced publication have been performed and that all test requirements have been met. Submit for each of the following materials:
 - a. Pipe and Fittings
 - 1) Ductile iron
 - 2) Polyvinyl Chloride (PVC)
 - i) AWWA C900
 - b. Valves
 - 1) Gate
 - i) Resilient-Seated
 - ii) Tapping
 - c. Fire hydrants
 - d. Meters
 - 2. Catalog Data: Submit manufacturer's standard drawings or catalog cuts for the following. Clearly indicate equipment to be furnished for the Project including options to be provided.
 - a. Pipe and Fittings
 - 1) Ductile iron
 - 2) Polyvinyl Chloride (PVC)
 - i) AWWA C900
 - ii) Schedule 40 & 80

- b. Valves
 - 1) Gate
 - i) Resilient-Seated
 - ii) Tapping
- c. Castings
- d. Tapping sleeves
- e. Valve boxes
- f. Fire hydrants
- g. Meters
- h. Pressure Gauge
- 3. Reports:
 - a. Field test report for each section of pipe for the following:
 - 1) Measured chlorine residual
 - 2) Bacteriological test
 - 3) Pressure test
- 4. Operation and Maintenance Instructions: Submit complete operation and maintenance manual for the following:
 - a. Valves
 - b. Fire hydrants
 - c. Meters

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Provide a suitable pipe hook or rope sling when handling the pipe with a crane. Lifting of the pipe shall be done in a vertical plane. Under no conditions shall the sling be allowed to pass through the pipe unless adequate measures are taken to prevent damage to both the tongue and groove ends.
- B. Deliver pipe in the field as near as practicable to the place where it is to be installed. Distribute pipe along the side of the trench opposite to the spoil bank. Where necessary to move the pipe longitudinally along the trench, it shall be done in such a manner as not to injure the pipe or coating.
- C. Shield PVC pipe and fittings stored on site from the sun's ultraviolet rays by suitable cover, or indoor storage.

PART 2 PRODUCTS

2.01 GENERAL

- A. Products with surfaces intended to be in contact with the drinking water shall be certified and listed in accordance with NSF 61 for potable drinking water.

2.02 DUCTILE IRON PIPE

- A. Pipe and fittings 3-inch to 64-inch shall conform to AWWA C150 and C151 and the following requirements:
 - 1. Size shall be as indicated on the Drawings.
 - 2. Minimum pipe pressure class shall be 350 unless indicated otherwise on the Drawings.
 - 3. Suitable for a system working pressure of 150 psi at the depth indicated on the Drawings with a laying condition as indicated in Section 02315, Trenching for Utilities.
 - 4. Interior lining to be used in a drinking water system shall be certified and listed in accordance with NSF 61.

5. Interior shall be lined with cement-mortar with seal coat in accordance with AWWA C104.
- B. Ductile-iron pipe for below ground service shall have push-on or mechanical joints, unless noted otherwise on the Drawings, conforming to AWWA C150 and C151, and to the following requirements:
 1. Provide mechanical joint fittings, unless noted otherwise on the Drawings.
- C. Ductile-iron pipe for above ground service shall have flanged joints, unless noted otherwise on the Drawings, conforming to AWWA C115.
 1. Pipes to be painted shall have only a shop primer on the outside by the manufacturer. Verify that proposed manufacturer's primer is compatible with the proposed paint system.
- D. Fittings for ductile-iron pipe shall conform to AWWA C110, or C153 and to the following requirements:
 1. Joint type shall be as specified above for the supplied ductile-iron pipe.
 2. In lieu of exterior asphaltic coating and interior cement lining, fittings may be provided with a 6-8 mil nominal thickness fusion bonded epoxy coating inside and out in conformance with AWWA C550.
 3. Fittings shall be made of ductile-iron.
 4. Restrained
 - a. Provide restrained joint pipe at fittings and valves on water mains. Length of restrained pipe shall be as indicated on the Drawings. Restrained joints shall be Snap-Lok (Griffin Pipe), Flex Ring and Lok-Ring (American), TR Flex (U.S. Pipe) or approved equal.
 - b. Restrained joint pipe and fittings shall meet all AWWA standards and other requirements as specified above for standard ductile iron pipe and fittings unless addressed herein.
 - c. Field made joints are allowable but should be avoided where possible. Careful planning to locate field cuts in standard pipe sections is preferred. For field made joints in restrained piping, use field weldments or an insert equal to TR Flex Gripper Rings or approved equal. Gasket type field made joints will not be allowed.
 - d. Restrained joint fittings shall be provided by the restrained joint pipe supplier where located within restrained joint pipe sections.. Fittings shall be of the same model / type as the pipe supplied from the pipe manufacturer.
 - e. Restrained joint fittings may be push-on joint type.
 - f. Megalugs, Series 1100, as manufactured by EBAA Iron Sales or approved equal shall be allowable for restraint where fittings or valves are not available with restrained joints from the pipe manufacturer.
 - g. Where additional fittings/valves are required for pipes not shown on Drawings, consult with Engineer for length of restrained joint pipe necessary each side of fittings/valve prior to installation of pipe/fitting.
 - h. Tees for hydrants do not have to be restrained along the main line except where they are within required restrained length of nearby fittings or valves.
 - i. Contractor shall develop a field layout schedule and drawing for restrained joint pipe installations.

2.03 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE

A. General

1. Pipe and fitting size shall be as indicated on the Drawings.

2. PVC materials shall comply with ASTM D1784 with a cell classification of 12454-B.
 3. Pipe shall be certified and listed for potable water distribution products in accordance with NSF 14 or 61 and bear the NSF seal on each section of pipe.
 4. Pipe shall be blue in color for potable water use.
- B. AWWA C900: C900 PVC pipe 4-inch to 12-inch shall conform to AWWA C900 and the following requirements:
1. Outside diameter shall conform to ductile-iron pipe.
 2. Pipe shall be pressure class 235 with a standard dimension ratio of DR 18.
 3. Pipe shall have plain end and elastomeric-gasket bell ends.
 4. Fittings shall conform to AWWA C110 or C153 and have mechanical joints. Fittings shall be made of gray-iron or ductile-iron. Interior of fittings shall be cement-mortar lined with seal coat in accordance with AWWA C104.

2.04 TAPPING SLEEVE

- A. Tapping Sleeve: Tapping sleeves shall be 304 stainless steel, flanged for the tapping valve and manufactured for a working pressure of 150 psi. Sleeve shall have a full body 360-degree gasket. Sleeve shall have a 3/4-inch test plug. Bolts and nuts shall be stainless steel.

2.05 VALVES

- A. General: Valves shall meet the following requirements:
1. Size shall be as required for the pipe size and material as indicated on the Drawings and specified.
 2. Open by counterclockwise rotation.
 3. Provide an interior protective epoxy coating in accordance with AWWA C550 on ferrous surfaces in contact with the liquid.
 4. Components in contact with the liquid shall be in compliance with NSF 61.
 5. Standard system working pressure is 200 psi.
 6. Equip valves with a suitable means of operation.
 7. Ends shall be mechanical joint for underground location and flanged joint for above ground location/underground utility vaults.
 8. For buried valves over 5 feet deep, provide extension stems of cold rolled steel to bring the operating nut to within 2 feet of the ground surface. Extension stems shall also be provided as required for floor stands and to floor valve box.
 9. Provide valve accessories as required for proper valve operation for valve locations as indicated on the Drawings and as recommended by valve manufacturer.
 10. Similar valve types shall be of one manufacturer.
- B. Gate Valves
1. All gate valves shall be resilient-seated gate valves which meet the specifications of ANSI/AWWA C509 or ANSI/AWWA C515. The valve shall incorporate a guide system with guide lugs on the wedge or on the body. The wedge shall be gray or ductile iron, fully encapsulated with rubber (including guide lugs and stem nut holder). Non-rising stem valves shall have two O-ring seals above the stem thrust collar that can be replaced with the valve under pressure. Non-rising stem valves shall also have a thrust washer on the stem thrust collar. Valves used for buried service will have a non-rising stem, mechanical joint end connections, and a 2" square operating nut. The work "OPEN" and an arrow to indicate the direction of opening the valve shall be cast

on the flanged base of the operating nut. Each valve shall be seat tested at the rated working pressure and shell tested at twice the rated working pressure in accordance with ANSI/AWWA C509 – Section 5 or ANSI/AWWA C515 – Section 5. All valves shall be warranted for 10 years from date of purchase against defective materials and workmanship.

2. 2-inch gate valves for blow-offs shall meet the requirements of AWWA C515 and shall have standard operating nut.
- C. Tapping Valves: Tapping valves shall conform to the specifications for the gate valves as indicated in this Section and the following:
1. Valve shall be specifically modified for the passage and clearance of the tapping machine cutter.
 2. The mating end to the tapping sleeve shall be raised male surface to provide true alignment to the sleeve and tapping machine. The valve shall be compatible with the tapping sleeve.

2.06 VALVE ACCESSORIES

- A. Valve Box, Below Ground: Boxes shall be high strength cast iron of the screw or telescopic type. Box shall consist of a flare base section, center extension as required, and a top section with the word "WATER" cast in the cover. Length of box shall be such that full extension of box is not required at the depth of water main cover.
- B. Extension Stem (if necessary): Stem shall be sized so as to transmit full torque from the operating mechanism to the valve stem without binding, twisting, or bending. Stem shall be made from extra heavy steel pipe . Stem shall be complete with couplings for connection to valve and floor stand where required. When valve extension kits are used they must be as recommended by the valve manufacturer.

2.07 SERVICE VALVES AND FITTINGS

1. Meter boxes
 - a. Boxes and cover shall be cast iron
 - b. Minimum 18 inches deep.
 - c. Sized for required water meter.
2. Meter setter
 - a. Setter shall be made of copper and compatible with the Owner's meter and other fittings to be supplied.
 - b. Setter shall have a meter valve on the public side of the meter. Valve shall be O-ring sealed and capable of being locked in the closed position. Setter shall have an ASSE approved dual check valve on the private side of the meter.

2.08 FIRE HYDRANTS

- A. Fire hydrants shall conform to AWWA C502 and to the following requirements:
1. Nozzles: Two (2) 2-1/2-inch hose and One (1) 4-inch pumper connections.
 2. Nozzle threads: Owner's Standard.
 3. Main valve diameter: 5-1/4-inch.
 4. Minimum depth of bury: 42-inches.
 5. Inlet connection: 6-inch mechanical joint.
 6. Open clockwise.
 7. Close with water pressure.
 8. O-ring seals

9. Traffic model with frangible sections near the ground line designed to break on impact.
10. Provide extension for hydrant standpipe as required to set centerline of hydrant nozzle a minimum of 15-inches and a maximum of 24-inches.
11. Exterior color above ground line shall match Owners.
12. All hydrants of one manufacturer.

2.09 METERS

- A. Displacement Type Meters: Displacement type meters shall conform to AWWA C700 and to the following requirements:
 1. Meter size shall be as indicated on the Drawings.
 2. Meter ends shall match pipe fittings.
 3. Provide magnetic drive with sealed gear housing.
 4. Totalizer shall have:
 - a. 4-inch dial reading in gallons
 - b. Six-digit totalizer
 5. Must be capable of remote readout to match Owner's existing system.

2.10 THRUST BLOCKING

- A. Provide concrete thrust blocking in accordance with the detail on the Drawings.
- B. Thrust blocking is not required where restrained joint fittings and equivalent length of restrained joint pipe are used unless shown otherwise on the Drawings.

2.11 DISINFECTANT

- A. The following products may be used as the disinfectant:
 1. Chlorine, liquid: AWWA B301.
 2. Hypochlorite, calcium and sodium: AWWA B300.

PART 3 EXECUTION

3.01 GENERAL

- A. Pipe installation shall meet the following general guidelines:
 1. Lay pipe in the presence of Engineer, unless specifically approved otherwise.
 2. Handle pipe and accessories in accordance with manufacturer's recommendations. Take particular care not to damage pipe coatings.
 3. Carefully inspect pipe immediately prior to laying. Do not use defective pipe. Replace pipe damaged during construction.
 4. Lay pipe to grade and alignment indicated on the Drawings.
 5. Provide proper equipment for lowering pipe into trench.
 6. Do not lay pipe in water or when the trench or weather conditions are unsuitable for the work.
 7. Provide tight closure pipe ends when work is not in progress.
 8. Keep pipe interior free of foreign materials.
 9. Clean bell and spigots before joining. Make joints and lubricate gasket in accordance with pipe manufacturer recommendation.
 10. Block fittings with concrete, or restrain as indicated on the Drawings or as required to prevent movement.

3.02 RELATION OF WATER MAINS TO SEWERS

- A. Lateral Separation: Lay water mains at least 10 feet laterally from existing and proposed sewers. Where existing conditions prevent a 10-foot lateral separation, the following shall be followed with approval of the Engineer:
 - 1. Lay water main in a separate trench, with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.
 - 2. Lay water main in the same trench as the sewer with the water main located at one side on a bench of undisturbed earth, and with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.
- B. Crossing Separation: Lay bottom of water main at least 18-inches above the top of the sewer. Where existing conditions prevent an 18-inch vertical separation, construct both the water main and sewer of ferrous materials and with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing.
- C. Crossing a Water Main Under a Sewer: When it is necessary for a water main to cross under a sewer, construct both the water main and the sewer of ferrous materials and with joints equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing.

3.03 WATER SERVICE

- A. Water service lines shall extend from the main distribution line to a meter box located at the right-of-way.
- B. 3/4-inch water service lines may be direct tapped to ductile iron pipe. Water service taps larger than 3/4-inch shall be made using a service saddle.
- C. Taps shall be located at 10 or 2 o'clock on the circumference of the pipe.
- D. Service taps shall be staggered, alternating from one side of the water main to the other and at least 12 inches apart.
- E. Taps on the same side of the main shall be a minimum of 24 inches apart.
- F. Install meter boxes and water service components so top of meter will be within 6 inches of the surface.
- G. Owner will provide and install water meter.

3.04 DUCTILE IRON PIPE

- A. Install pipe in conformance with AWWA C600 and the following:
 - 1. For laying pipe in a vertical or horizontal curve, each full length pipe may be deflected by the following offset distance:
 - a. Push-on joint
 - 1) 3 to 12-inch pipe: 14-inch offset
 - b. Mechanical joint
 - 1) 3 to 6-inch pipe: 20-inch offset
 - 2. For laying restrained joint pipe in a vertical or horizontal curve, except for horizontal directional drills (HDD), each full length pipe may be deflected by the following offset distance:
 - a. 6 to 12-inch pipe: 11-inch offset

3.05 PVC PRESSURE PIPE

- A. Install PVC C900 pipe in conformance with AWWA C605.

- B. Solvent Weld: Field cut ends shall be sanded to roughing the surface. Joints shall be cleaned of foreign material. Solvent shall be applied to the joint and joint made as recommended by the manufacturer. Excess solvent shall be wiped off. Joint should not be moved until sufficiently set up.
- C. Bell and Spigot Joints: Clean bell and spigot ends prior to jointing. Ends of field cut pipe shall be beveled with file. Gasket shall be clean and lightly lubricated. Joint shall be made as recommended by the manufacturer.

3.06 VALVES AND FITTINGS

- A. Install buried valves on top of an 18-inch square, 3-inch thick, solid concrete pad (minimum dimensions). The concrete pad may be provided by a pre-cast manufacturer or cast-in-place in the field above grade. Concrete used for the pads shall be a minimum 3,000 psi mix. The pads may not be cast-in-place in the pipe trench. Connection to pipe shall be such that there shall be no stress at the joint caused by misalignment or inadequate support of pipe or valve.
- B. Valve Box: Set a valve box over each buried valve. Support box so that no stress shall be transmitted to the valve or pipe line. Install box plumb and set top flush with finished grade. Operating nut shall be centered in box. Provide a 24-inch x 24-inch wide by 6-inch thick concrete pad at top of valve boxes outside paved areas.
- C. Valve operation nut shall be within 30 inches of the top of box. Provide stem extension if necessary to bring operating nut to within 30 inches of the top of box.
- D. Install fittings as recommended by the manufacturer. Fittings shall be blocked or otherwise restrained from movement.
- E. Install valves, gates, and accessories indicated on the Drawings and in complete accordance with the manufacturer's recommendations.
- F. Install air / vacuum valve inside a manhole.

3.07 METERS

- A. Install meter boxes and water service components so top of meter will be within 6 inches of the surface.
- B. The Owner will install water meter.

3.08 HYDRANT

- A. Set hydrant in accordance with detail on Drawings.

3.09 PAINTING

- A. Equipment shall receive the manufacturer's standard coating for the intended application. Coatings shall be suitable for the intended application.
- B. Repaint damaged paint services.

3.10 PRESSURE TESTING

- A. Pressure test in accordance with AWWA C600 for ductile iron pipe and AWWA C605 and M23 for PVC pipe and as specified herein
- B. General:
 - 1. The Engineer shall approve the source, quality, and method of disposal of water to be used in test procedures.
 - 2. Obtain Owner's permission 48 hours prior to filling or flushing of pipe system with water from Owner's water system. Owner shall operate valves connected

to the existing water system. Where large quantities of water may be required for flushing, Owner reserves the right to require that flushing be done at periods of low demand.

3. Clean and flush pipe system of foreign matter prior to testing.
4. Provide air vents at the high points in the line section to be tested for releasing of air during filling. Service corporation stops may be used for air vent when located at a high point. Include cost of air vents in price of testing. Leave corporation stops in place after testing and note locations on As-Built Drawings.
5. Allow concrete blocking to reach design strength prior to pressure testing.
6. Test main prior to installation of service taps.
7. Repair defects in the pipe system. Make repairs to the same standard as specified for the pipe system.
8. Retest repaired sections until acceptance.
9. Repair visible leaks regardless of the test results.
10. Pipe sections shall not be accepted and placed into service until specified test limits have been met.

C. Testing

1. Notify Owner and Engineer a minimum of 48 hours prior to testing.
2. Perform tests in the presence of Engineer.
3. Make pressure tests between valves. Furnish suitable test plugs where line ends in "free flow."
4. Upon completing a section of pipe between valves, test pipe by maintaining for a two hour period a hydrostatic pressure of 150 psig.
5. Test pressure shall not vary by more than +/- 5 psi for the duration of the test.
6. No length of line shall be accepted if the leakage is greater than that determined by the following formula based on the appropriate test pressure:
L = Allowable leakage per 1,000 feet of pipe in gallons per hour.
D = Nominal diameter of the pipe in inches.
100 psi: $L = D \times 0.07$
150 psi: $L = D \times 0.08$
200 psi: $L = D \times 0.09$
250 psi: $L = D \times 0.10$

3.11 DISINFECTION

- A. After satisfactory completion of the pressure test, disinfect new potable water mains and existing mains that have required repair in accordance with AWWA C651 and as specified herein.
- B. General:
 1. Provide a superintendent experienced in the required procedures for disinfecting with chlorine.
 2. Obtain Owner's permission 48 hours prior to filling, flushing, and chlorinating of the water mains. Owner shall operate valves connected to the existing water system.
 3. Do not allow highly chlorinated water into the existing distribution system.
 4. If there is any question that the chlorinated discharge will cause damage to the environment, a reducing agent shall be applied to the water to neutralize the residual chlorine. Federal, state, or local environmental regulations may require special provisions or permits prior to disposal of highly chlorinated water.
 5. Perform disinfection and testing in presence of Engineer.

- C. Connection to Existing System: Notify Owner 48 hours prior to making connections to the existing system. Thoroughly clean the existing water main exterior prior to the installation of tapping sleeves and corporation stops. Lightly dust with calcium hypochlorite powder the water main exterior and the interior surface of the tapping sleeve, and corporation stops.
- D. After satisfactory flushing of the main, disinfect by the injection of a chlorine solution. Induce chlorine in sufficient quantity to maintain a chlorine residual of at least 50 ppm throughout the system to be tested. Maintain the chlorine solution in the system for at least 24 hours.
- E. Valves and Fire Hydrants: Open and close valves on the mains being disinfected a minimum of three times during the chlorine contact period and a minimum of three times during flushing. Fire hydrants and other appurtenances should receive special attention to insure proper disinfection.
- F. For Cut-In Construction: Use the following procedures for disinfecting of the new installation and the existing main at the cut-in point in accordance with AWWA C651, Section 9:
 - 1. Apply liberal quantities of hypochlorite, in the form of tablets, to the open trench.
 - 2. Interior of new pipe and fittings and the ends of the existing mains shall be swabbed or sprayed with a one percent hypochlorite solution before installation.
 - 3. Install a 2-inch tap downstream of the work area. Tap shall be used for blowing off the main, or use the next fire hydrant downstream of the work area for blowing off the main.
 - 4. Install a 2-inch tap just upstream of the new installation. Control Water from the existing system so as to flow slowly into the work area during the application of chlorine. After the line is thoroughly flushed, add chlorine solution at a concentration of 100 ppm by the continuous feed method and hold in the main for one (1) hour.
- G. Prior to flushing, the free chlorine residual shall be a minimum of 10 ppm. Flushing of the lines shall proceed until the lines contain the normal chlorine residual of the system.
- H. Test in the field for free chlorine residual:
 - 1. Sample location shall be the same as required for the bacteriological test samples.
 - 2. Immediately after injection of the chlorine solution. Sample shall have a chlorine residual as specified.
 - 3. Prior to flushing of the highly chlorinated water from the potable water system and a minimum of 24-hours after the initial injection of the chlorine. Sample shall have a minimum chlorine residual as specified.

3.12 BACTERIOLOGICAL TESTING

- A. Required location for obtaining water samples:
 - 1. Every 2,000 lf
 - 2. End of each main.
 - 3. A minimum of one from each branch.
 - 4. Mains at cut-in locations: Each side of work area. Time between samples to be determined by Engineer in field.
- B. A laboratory, certified for the required testing by the State of North Carolina, shall collect the sample and perform the testing. The laboratory shall be the same for both sampling and testing.

- C. Obtain two water samples at each specified location for the bacteriological testing. Take the first sample immediately after flushing of the chlorinated water and again in 24-hours.
- D. Recommended additional samples. During the required sampling of water from the new system, it is recommended that samples be taken from the existing potable water source to determine if coliforms are present.
- E. Care in sampling. No hose or fire hydrant shall be used for the collection of samples. Take samples from an approved sample tap consisting of a corporation stop installed in the main with a copper tube gooseneck assembly. Operation shall be such as to ensure that the sample collected is actually from water that has been in the new system. Copper tube gooseneck assembly shall be removed and sample tap corporation stop shut off upon completion of testing bacteriological testing is requirements.
- F. Test samples for the presence of coliform organisms in accordance with the latest edition of Standard Methods for the Examination of Water and Wastewater. Testing method used shall be the multiple-tube fermentation technique, the membrane-filter technique, or presence/absence.
- G. Test for odor. The water in the new system should also be tested to assure that no offensive odor exists due to chlorine reactions or excess chlorine residual.
- H. If samples show the presence of coliform, procedure 1 or 2 described below shall be followed, with the approval of the Owner, before placing the unit or facility in service.
 - 1. Take repeat samples at least 24 hours apart until consecutive samples do not show the presence of coliform.
 - 2. Again subject the system to chlorination and sampling as described in this section.
- I. If samples are free of coliform, and with the approval of the Owner, the potable water system may be placed in service.
- J. Contamination: If, in the opinion of the Engineer, possible contaminants have entered the existing water system, or water samples show the water in the existing system to be unsafe on completion of the work, the existing water system shall be disinfected as specified herein and shall include all contaminated components. Disinfection of the existing system shall be coordinated with the Owner.

3.13 VALVE OPERATION

- A. Prior to final acceptance provide competent personnel to operate each valve in presence of Engineer. Verify that valves are left in the open position.

END OF SECTION