

## ADDENDUM NO. 2

SOUTHWEST WATER DISTRIBUTION IMPROVEMENTS  
BROWN ROAD TRUNK WATERLINE PHASE 2

CITY OF OREGON, OHIO

JOB NO. 1210-100

JULY 13, 2017

I. Proposal, Bid Form, and Contract Documents

- A. A revised unit price schedule is attached for your use in bidding this project.

II. Specifications

- A. Delete from Oregon's Specifications for Water Mains: pages 25-27 valves and appurtenances and pages 25-29 fire hydrants and appurtenances. Replace with Drawing sheets 26B, 26C, and 26D for City of Oregon Waterline Notes & Details which are attached to this addendum.
- B. Replace Section 01020 – Allowances with the specification attached to this addendum.

III. Drawings

- A. Delete from Sheet 3 and Addendum No. 1 the following: Sheet 3 – Detail Note: "Contractor to temporarily relocate existing 4" gas line. The 6" storm sewer and 8" waterline to accommodate proposed bore location with cost to be included in jack and bore bid item."
- B. Add sheets 26B, 26C, and 26D for City of Oregon Waterline Notes & Details which are attached to this addendum.
- C. Sheet 27 – Commercial asphalt drive replacement shall be as detailed on this page with the addition of Item 301 – 2 ½" asphalt concrete base to be placed under the two (2) layers of Item 441. Location of the commercial asphalt drive replacement shall be approximately Station 41+34 (Menards) and Station 60+20 (Church).
- D. Sheet 7 – Replace Sheet 7 with the new Sheet 7 attached to this addendum.
- E. Sheets 6 and 7, from Sta. 57+50 to Sta. 62+50 the waterline shall be installed by HDD (HDPE DR11) due to the existing trees.
- F. Sheet 25 – Replace Sheet 25 with the new Sheet 25 attached to this addendum.

IV. Clarification

- A. The 16" waterline is shown laid to grade. The waterline grade can deviate from plan grade as long as 5 feet minimum cover is maintained, 18" vertical separation from storm/sanitary is maintained, clearances with other utilities as noted on the drawings is maintained, and the grade of the waterline is such that the high points are at air release manholes and fire hydrants.
- B. Backfill for trenches can be ODOT Type 1 or Type 2.
- C. Proposed catch basin 2-2B will be without sumps and with boots.
- D. Chlorinated water may be permitted to be discharged into the sanitary sewer with the prior coordination and approval of the Oregon WWTP Superintendent. There is no sanitary sewer east of Coy Road on Brown Road.
- E. The existing 8" waterline is cast iron.
- F. The proposed 10' future bike path is not part of this contract, but coordination will be required as construction of both will be at the same time.
- G. Line Item 10 on the bid form includes the structure on Navarre Avenue.

V. Wage Rates

- A. Revised Davis-Bacon wage rates are attached for your use in bidding this project.

VI. Planholders List

- A. A planholders list is available online for your reference at [www.pdgplanroom.com](http://www.pdgplanroom.com).

\* \* \* END OF ADDENDUM NO. 2 \* \* \*

**BID FORM**

**PROJECT: SOUTHWEST WATER DISTRIBUTION IMPROVEMENTS – BROWN ROAD TRUNK WATERLINE PHASE 2**

To the Director of Public Service  
Municipal Building  
5330 Seaman Road  
Oregon, Ohio 43616-2633

I. The undersigned, having familiarized \_\_\_\_\_ with the local conditions affecting the cost of the work and with the Contract Documents, hereby proposes to perform everything required to be performed and to provide and furnish all of the labor, materials, necessary tools, expendable equipment, and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the work required for the installation of approximately 11,000 lineal feet of 16” waterline for the CITY OF OREGON, OHIO, all in accordance with the specifications for the following prices, to wit:

REF. NO.	ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	MATERIAL UNIT PRICE	LABOR UNIT PRICE	TOTAL UNIT PRICE	TOTAL BID PRICE
<b>WATERLINE</b>								
1	Spec	16” Waterline and Fittings, Installed By Open Cut	10,911	L.F.				
2	Spec	16” Waterline Fusible PVC by HDD at Station 62+25	94	L.F.				
3	Spec	16” Waterline, HDPE DR11, by HDD at Station 42+00 and Station 57+50 and from Station 57+50 to 62+50	600	L.F.				
4	Spec	16” Waterline, Free Bore from Station 56+50 to 57+50	100	L.F.				
5	Spec	16” Butterfly Valve In 5’ Manhole	17	Each				
6	Spec	Air Release Valve Assembly in Manhole	3	Each				
7	Spec	New Water Main Connection To Existing (16” at Station 41+65)	1	Each				
8	Spec	New Water Main Connection To Existing (8” at Forester Drive) Including Gate Valve and Valve Box and Approximately 20 Lineal Feet of 8” Waterline	1	L.S.				
9	Spec	New Water Main Connection To Existing (8” at Coy Road) Including Gate Valve and Valve Box and Approximately 20 Lineal Feet of 8” Waterline	1	L.S.				

10	Spec	Water Main Connection To Existing 20" on Navarre Including Encasing Tap Sleeve in Concrete	1	L.S.				
11	Spec	Allowance for Hot Tap to 20" PCCP on Navarre	1	L.S.			\$16,000.00	\$16,000.00
12	Spec	1" Water Service Replacement, Long-Bored With New Curb Box and Shut Off	1,408	L.F.				
13	Spec	1" Water Service Replacement, Short, With New Curb Box and Shut Off	180	L.F.				
14	Spec	Standard Hydrant Assembly	18	Each				
15	611	Catch Basin, No. 2-2B	5	Each				
16	611	8" Conduit, Type B (707.42) for Station 50+49 and Station 50+90	134	L.F.				
17	611	8" Conduit, HDPE DR11, Installed by HDD for Station 48+34	53	L.F.				
18	611	12" Conduit for Crossing Forrester Drive, Type B, (707.42)	57	L.F.				
19	611	12" Conduit, HDPE DR11, Installed by HDD for Station 52+56 and Station 53.47	99	L.F.				
20	611	Storm Sewer Repair, 12" and Smaller	520	L.F.				
21	611	Storm Sewer Repair, Over 12"	20	L.F.				
22	Spec	Abandon Existing 8" Waterline (Including 3 Cut and Caps)	1	L.S.				
<b>RESTORATION</b>								
23	Spec	Asphalt Concrete Trench Replacement	290	S.Y.				
24	Spec	Asphalt Drive Replacement,	215	S.Y.				
25	Spec	Commercial Asphalt Drive Replacement	45	S.Y.				
26	Spec	Concrete Drive Replacement, Moderate Set (MS)	145	S.Y.				
27	Spec	Stone Drive Replacement	135	S.Y.				
28	Spec	Curb Remove and Replace	10	L.F.				
29	Spec	Sidewalk, Remove and Replace	20	S.F.				

30	659	Seeding, Mulching	1	L.S.				
<b>MISCELLANEOUS</b>								
31	201	Clearing and Grubbing	1	L.S.				
32	Spec	Preconstruction Video	1	L.S.				
33	614	Traffic Control	1	L.S.				
34	624	Mobilization/Demobilization	1	L.S.				
35	Spec	Bonds and Insurance	1	L.S.				
36	832	Storm Water Pollution Prevention Plan	1	L.S.				
37	832	Erosion Control Allowance	1	L.S.			\$2,000.00	\$2,000.00
38	832	Inlet Protection	50	Each				
39	832	Silt Fence	1,000	L.F.				

The cost for any additional items required to complete the project per the specifications not specifically listed shall be included in the cost of the pertinent item.

**TOTAL BID PROJECT IN FIGURES** \$ \_\_\_\_\_  
(Unofficial total subject to correction)

II. Time of Completion. The undersigned agrees to substantially complete the work covered by **September 1, 2018** with final completion by **September 29, 2018**.

III. Accompanying this Bid is a Certified Check or Bid Bond in the amount of

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_),

payable to the City of Oregon, Ohio, which it is agreed, shall be retained as liquidated damages to the City of Oregon, Ohio, if the undersigned fails to execute the Contract in conformity with the Form of Contract incorporated in the Contract Documents and furnish performance bond as specified within ten (10) days after notification of the award of the Contract to the undersigned.

IV. In submitting this Bid, it is understood that the right is reserved by the City of Oregon, Ohio, to reject any and all bids. It is agreed that this Bid may not be withdrawn for a period of 90 days from the opening thereof.

The following documents are attached to and made a condition of this Bid:

- A. Best Bid Criteria Form
- B. Delinquent Real Property Tax
- C. Delinquent Personal Property Tax
- D. Non-Collusion Affidavit
- E. Acknowledgement of Income Tax Policies
- F. Affidavit of Compliance with Ohio Revised Code Section 3517.13

V. Bidder further represents that:

- a) 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.
- b) Bidder is aware of the general nature of the Work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- c) Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- d) 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.
- e) 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.

Bidder acknowledges receipt of the following addendum(s):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE \_\_\_\_\_, 20\_\_\_\_\_

FIRM NAME \_\_\_\_\_ BY \_\_\_\_\_  
Signature

ADDRESS \_\_\_\_\_ TITLE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

E.I. NO. \_\_\_\_\_

(Note: Bidders shall not add any conditions or qualifying statement to this Bid as otherwise the Bid may be declared irregular as not being responsive to the Advertisement for Bids.)

(Note: The successful bidder will be required to provide a Performance Bond in an amount not less than 100% of the contract price in favor of the City of Oregon, Ohio, conditioned upon the faithful performance of the Contract.)

SECTION 01020

ALLOWANCES

PART 1 GENERAL

1.1 SCOPE

- A. The Contractor shall include allowances in his bid for the items described in this section. No profit and overhead shall be included in the allowance. An adjustment shall be made at the end of the project to cover the difference between the allowance and the actual invoice amount for the services and materials in the allowance. The Owner shall select the brand of equipment and material to be utilized.

PART 2 DETAILED DESCRIPTION OF ALLOWANCES

2.1 CONTRACT ALLOWANCES

A. Tapping 20" PCCP on Navarre Avenue

- 1. This allowance shall be for providing the material and labor to perform the wet tap to the 20" PCCP on Navarre Avenue. The General contractor is required to perform the excavation and traffic control and encase the tap sleeve in concrete as stated in the following documentation. This allowance shall be for \$16,000. Allowance quotation is attached.

B. Erosion Control Allowance

- 1. This allowance shall be providing Erosion Control not specifically listed in the unit price schedule. This allowance shall be for \$2,000.

END OF SECTION



**FORTERRA**

Forterra Pressure Pipe

**SPECIFIC JOB QUOTATION**

Page 1 of 3

Quotation TP- 17-008

Date 2/9/2017

	Phone
	Fax

**For information and to place an order, call:**

Mr. Scott Noonan  
P.O. Box 101  
Coldwater, OH 45828  
**Phone:** (419) 678-2596  
**Fax:** (419) 678-2917  
**E-mail:** [SNoonan@USPipe.com](mailto:SNoonan@USPipe.com)

We propose to furnish the following described materials for the prices and conditions listed below for a pressure connection located at:

**Oregon, OH**

**Southwest Water Distribution Improvement Project**

**SALES OR USE TAX IS NOT INCLUDED**

Purchaser is responsible for payment of any such assessments

Quantity	Description	Price
1	20 x 16 Tapping Sleeve for a 20" ID L-301 Main	<u>Lump Sum</u>
1	16" Flange x MJ Resilient Wedge Tapping Valve, Open Right	<b>\$15,740.00</b>
1	Set of 16" Stainless Steel Flange Accessories	
1	Sleeve and Valve Installation	
1	Hydrostatic Test	
1	16" Wet Tap Service	

**Notes**

**TAPPING ASSEMBLY DESIGNED FOR 150 PSI OPERATING PRESSURE.**

**TAP SLEEVE TO BE ENCASED IN CONCRETE, BY OTHERS, AFTER TAP COMPLETION.**

Please note the pressure in the line being tapped may need to be reduced from the time the prestressing wires are cut until the pilot drill penetrates the pipe wall. Depending on the existing pipe design, the pressure may need to be as low as 80 psi.





**FORTERRA**

Forterra Pressure Pipe

**SPECIFIC JOB QUOTATION**

Page 2 of 3

Quotation TP-17-008

Date 2/9/2017

**SALES OR USE TAX IS NOT INCLUDED**

Purchaser is responsible for payment of any such assessments

**Price is based upon you or others at your direction furnishing the following:**

1. Perform all necessary excavating work, including barricades, sheeting or shoring, scaffolding, and dewatering as required to meet OHSA requirements. (FPP personnel have the right to delay work until such requirements are met.)
2. Provide an air compressor for running tapping machine and air tools (120 cfm at 90 psi).
3. Provide lifting equipment to set tapping sleeve, valve and machine.
4. Arrange and pay all permits, licenses, and inspection fees.
5. Provide a suitable roadway from public highway to point where the pressure connection is to be made. If conditions are such that our truck requires special assistance in or out, you or someone in your behalf must furnish that assistance.
6. For safety and assistance, at least one man to provide labor assistance. This man must be available at all times.
7. Any weather protection required.
8. Any thrust blocks, reaction blocking, concrete cradles or other supports used during or after completion of our operation. All steel must be encased for corrosion protection after completion of tap.
9. Valve boxes and extension stems are not included unless specifically stated.
10. We are not responsible for damage to tapping valves, saddles, or existing utility occurring after satisfactory completion of the actual tap.
11. **Forterra does not and cannot guarantee retrieval of the entire concrete core/coupon.**
12. Quotation based on weekday taps and travel. An additional charge of **\$850.00/man/day** will be made for weekend work, work completed during night hours, and extra day charges.
13. Quotations containing multiple taps are based on 1 trip from our facility to the site. If more than 1 trip is required, an additional charge will be invoiced.
14. Our quotation is provided to you without the benefit of plans and specifications. Any changes to our scope after receiving pertinent contract documents will be to your account.
15. *Unless specifically noted on page 1, materials quoted may not comply with AIS requirements. If project has AIS clause, we will need to modify our quotation to comply with AIS standards.*
16. Our remit to address is:

**FORTERRA PRESSURE PIPE**

**P.O. Box 842481**

**Dallas, TX 75284-2481**



**FORTERRA**

Forterra Pressure Pipe

**SPECIFIC JOB QUOTATION**

**SALES OR USE TAX IS NOT INCLUDED**

Purchaser is responsible for payment of any such assessments

**Note:** There are tapping saddles presently available on the market which do not incorporate the features necessary to insure satisfactory performance on prestressed concrete pressure pipe. Tapping saddles which do not permit attachment to the pipe and allow for grouting prior to cutting of the prestressing wires may result in damaged pipe and/or failure. Contact Forterra Pressure Pipe for further information.

If our proposal is acceptable, please sign below as indicated and return a signed copy to our office, retaining one copy for your files. No work will be performed by our personnel unless a signed copy of this proposal is in our possession.

**PLEASE NOTE:** To provide you tapping service as economically as possible, our price for this service is based on the minimum time necessary for tapping. If the equipment you are to provide is not working, the labor requested is not furnished as outlined, or the site is not adequately prepared on schedule, our Field Service Representative has been instructed to leave.

Based on present production schedules, shipment should be started 3-4 weeks after receipt of an order and necessary engineering approvals and completed at a rate jointly determined by the purchase and seller, subject to the terms and conditions herein. Changes in our production schedule prior to acceptance of this quotation may require adjustments in the delivery estimate.

This quotation is valid for acceptance for 15 days from date of bid shown on this quotation. If an award is not made within that time, we will accept an order from you contingent upon your receipt of a contract with the owner.

Payment shall be due 30 days after the date of invoice.

A SERVICE CHARGE of 1-1/2% per month on the unpaid balance will be due on all amounts unpaid 30 days after the due date.

This quotation is made subject to all terms and conditions above and printed on the reverse side of this sheet. All quotations subject to correction of stenographic errors.

**FORTERRA PRESSURE PIPE**

By Scott T. Noonan  
Scott T. Noonan  
Title Pipeline Services Manager

The signed acceptance of this quotation constitutes a contract to purchase in accordance with all terms and conditions referred to above, when signed by an authorized officer of a corporation, or by a partnership, or by an individual when doing business as an individual, or by its or their authorized agent.

**Acceptance:** I/We hereby accept the prices and all terms and conditions of the above specified job quotation, and subscribe my/our signature hereto to constitute a Contract with Forterra Pressure Pipe.

Firm \_\_\_\_\_

By \_\_\_\_\_

Date: \_\_\_\_\_

Print Name \_\_\_\_\_

Title \_\_\_\_\_

Materials on this project are: Tax Exempt \_\_\_\_\_ Taxable \_\_\_\_\_

If project is taxable, indicate percentage \_\_\_\_\_

**If tax exempt, please send tax exemption certificate**

General Decision Number: OH170002 07/07/2017 OH2

Superseded General Decision Number: OH20160002

State: Ohio

Construction Types: Heavy and Highway

Counties: Ohio Statewide.

Heavy and Highway Construction Projects

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 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 \$10.20 (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 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/06/2017
1	01/13/2017
2	02/03/2017
3	02/17/2017
4	03/10/2017
5	04/07/2017
6	04/14/2017
7	04/21/2017
8	04/28/2017
9	05/12/2017
10	05/19/2017
11	05/26/2017
12	06/02/2017
13	06/09/2017
14	06/16/2017
15	06/23/2017
16	06/30/2017
17	07/07/2017

BROH0001-001 06/01/2016

DEFIANCE, FULTON (Excluding Fulton, Amboy & Swan Creek Townships), HENRY (Excluding Monroe, Bartlow, Liberty, Washington, Richfield, Marion, Damascus & Townships & that part of Harrison Township outside corporate limits of city of Napoleon), PAULDING, PUTNAM and WILLIAMS COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0001-004 06/01/2016

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 28.55	13.23

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BROH0003-002 06/01/2016

FULTON (Townships of Amboy, Swan Creek & Fulton), HENRY (Townships of Washington, Damascus, Richfield, Bartlow, Liberty, Harrison, Monroe, & Marion), LUCAS and WOOD (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0005-003 06/01/2016

CUYAHOGA, LORAIN & MEDINA (Hinckley, Granger, Brunswick, Liverpool, Montville, York, Homer, Harrisville, Chatham, Litchfield & Spencer Townships and the city of Medina)

	Rates	Fringes
BRICKLAYER		
BRICKLAYERS; CAULKERS;		
CLEANERS; POINTERS; &		
STONEMASONS.....	\$ 28.55	13.23
SANDBLASTERS.....	\$ 34.45	14.18
SEWER BRICKLAYERS & STACK		
BUILDERS.....	\$ 34.70	14.18
SWING SCAFFOLDS.....	\$ 34.95	14.18

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BROH0006-005 06/01/2016

CARROLL, COLUMBIANA (Knox, Butler, West & Hanover Townships), STARK & TUSCARAWAS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0007-002 06/01/2016

LAWRENCE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0007-005 06/01/2016

PORTAGE &amp; SUMMIT

	Rates	Fringes
BRICKLAYER.....	\$ 28.55	13.23

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BROH0007-010 06/01/2016

PORTAGE & SUMMIT

	Rates	Fringes
MASON - STONE.....	\$ 28.55	13.23

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BROH0008-001 06/01/2016

COLUMBIANA (Salem, Perry, Fairfield, Center, Elk Run, Middleton, & Unity Townships and the city of New Waterford), MAHONING & TRUMBULL

	Rates	Fringes
BRICKLAYER.....	\$ 28.55	13.23

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BROH0009-002 06/01/2016

BELMONT & MONROE COUNTIES and the Townships of Warren & Mt. Pleasant and the Village of Dillonvale in JEFFERSON COUNTY

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23
Refractory.....	\$ 31.45	19.01

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BROH0010-002 06/01/2016

COLUMBIANA (St. Clair, Madison, Wayne, Franklin, Washington, Yellow Creek & Liverpool Townships) & JEFFERSON (Brush Creek & Saline Townships)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0014-002 06/01/2016

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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BROH0016-002 06/01/2016

ASHTABULA, GEAUGA, and LAKE COUNTIES

Rates	Fringes
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Bricklayer, Stonemason.....\$ 28.55 13.23

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 BROH0018-002 06/01/2016

BROWN, BUTLER, CLERMONT, HAMILTON, PREBLE (Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN COUNTIES:

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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 BROH0022-004 06/01/2016

CHAMPAIGN, CLARK, CLINTON, DARKE, GREENE, HIGHLAND, LOGAN, MIAMI, MONTGOMERY, PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) and SHELBY COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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 BROH0032-001 06/01/2016

GALLIA & MEIGS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

-----  
 BROH0035-002 06/01/2016

ALLEN, AUGLAIZE, MERCER and VAN WERT COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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 BROH0039-002 06/01/2016

ADAMS & SCIOTO

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

-----  
 BROH0040-003 06/01/2016

ASHLAND, CRAWFORD, HARDIN, HOLMES, MARION, MORROW, RICHLAND, WAYNE and WYANDOT (Except Crawford, Ridge, Richland & Tymochtee Townships) COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23

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 FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above

journeyman rate.  
Free standing stack work ground level to top of stack;  
Sandblasting and laying of carbon masonry material in swing  
stage and/or scaffold; Ramming and spading of plastics and  
gunniting: \$1.50 per hour above journeyman rate.  
"Hot" work: \$2.50 above journeyman rate.

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BROH0044-002 06/01/2016

Rates Fringes

Bricklayer, Stonemason  
COSHOCTON, FAIRFIELD,  
GUERNSEY, HOCKING, KNOX,  
KICKING, MORGAN,  
MUSKINGUM, NOBLE (Beaver,  
Buffalo, Seneca & Wayne  
Townships) & PERRY  
COUNTIES:.....\$ 28.55 13.23

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BROH0045-002 06/01/2016

FAYETTE, JACKSON, PIKE, ROSS and VINTON COUNTIES

Rates Fringes

Bricklayer, Stonemason.....\$ 28.55 13.23

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BROH0046-002 06/01/2016

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry &  
Bloom Townships) and WYANDOT (Tymochtee, Crawford, Ridge &  
Richland Townships) COUNTIES & the Islands of Lake Erie north  
of Sandusky

Rates Fringes

Bricklayer, Stonemason.....\$ 28.55 13.23

FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above  
journeyman rate.  
Free standing stack work ground level to top of stack;  
Sandblasting and laying of carbon masonry material in swing  
stage and/or scaffold; Ramming and spading of plastics and  
gunniting: \$1.50 per hour above journeyman rate.  
"Hot" work: \$2.50 above journeyman rate.

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BROH0052-001 06/01/2016

ATHENS COUNTY

Rates Fringes

Bricklayer, Stonemason.....\$ 28.55 13.23

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BROH0052-003 06/01/2016

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) and WASHINGTON COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23
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BROH0055-003 06/01/2016		

DELAWARE, FRANKLIN, MADISON, PICKAWAY and UNION COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 28.55	13.23
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CARP0003-004 05/01/2017		

MAHONING & TRUMBULL

	Rates	Fringes
CARPENTER.....	\$ 26.20	17.42
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CARP0069-003 05/01/2017		

CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
CARPENTER.....	\$ 25.98	15.98
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CARP0069-006 05/01/2017		

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
CARPENTER.....	\$ 24.04	15.29
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CARP0171-002 05/01/2017		

BELMONT, COLUMBIANA, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
CARPENTER.....	\$ 26.58	17.73
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CARP0200-002 05/01/2017		

ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING, MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON and WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 26.44	16.08



Diver.....	\$ 39.41	10.40
PILEDRIVERMAN.....	\$ 29.07	16.08

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 CARP0248-005 07/01/2008

LUCAS & WOOD

	Rates	Fringes
CARPENTER.....	\$ 27.27	14.58

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 CARP0248-008 07/01/2008

	Rates	Fringes
CARPENTER DEFIANCE, FULTON, HANCOCK, HENRY, PAULDING & WILLIAMS COUNTIES.....	\$ 23.71	13.28

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 CARP0254-002 05/01/2017

ASHTABULA, CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
CARPENTER.....	\$ 32.40	16.97

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 CARP0372-002 05/01/2016

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM & VAN WERT

	Rates	Fringes
CARPENTER.....	\$ 24.54	18.21

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 CARP0639-003 05/01/2017

MEDINA, PORTAGE & SUMMIT

	Rates	Fringes
CARPENTER.....	\$ 30.42	16.99

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 CARP0735-002 05/01/2017

ASHLAND, ERIE, HURON, LORAIN & RICHLAND

	Rates	Fringes
CARPENTER.....	\$ 25.27	15.53

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 CARP1311-001 05/01/2014

BROWN, BUTLER, CHAMPAIGN, CLARK, CLERMONT, CLINTON, DARKE,  
 GREENE, HAMILTON, LOGAN, MIAMI, MONTGOMERY, PREBLE, SHELBY &  
 WARREN

	Rates	Fringes
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Carpenter & Piledrivermen.....	\$ 27.39	14.33
Diver.....	\$ 40.58	9.69

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CARP1393-002 07/01/2008

CRAWFORD, DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA,  
PAULDING, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Piledrivermen & Diver's Tender...\$	27.30	16.05

DIVERS - \$250.00 per day  
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CARP1393-003 07/01/2008

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM, VAN WERT & WYANDOT

	Rates	Fringes
Piledrivermen & Diver's Tender...\$	25.15	15.92

DIVERS - \$250.00 per day  
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CARP1871-006 05/01/2017

BELMONT, HARRISON, & MONROE

	Rates	Fringes
Diver, Wet.....	\$ 48.11	17.33
Piledrivermen; Diver, Dry.....	\$ 32.07	17.33

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CARP1871-008 05/01/2017

ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE,  
LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT

	Rates	Fringes
Diver, Wet.....	\$ 45.80	18.84
Piledrivermen; Diver, Dry.....	\$ 30.53	18.84

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CARP1871-014 05/01/2017

CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Diver, Wet.....	\$ 38.34	16.95
Piledrivermen; Diver, Dry.....	\$ 25.56	16.95

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CARP1871-015 05/01/2017

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
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Diver, Wet.....	\$ 37.34	16.07
Piledrivermen; Diver, Dry.....	\$ 24.89	16.07

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CARP1871-017 05/01/2017

MAHONING & TRUMBULL

	Rates	Fringes
Diver, Wet.....	\$ 40.65	17.62
Piledrivermen; Diver, Dry.....	\$ 27.10	17.62

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CARP2235-012 01/01/2014

COLUMBIANA & JEFFERSON

	Rates	Fringes
PILEDRIVERMAN.....	\$ 31.74	16.41

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CARP2239-001 07/01/2008

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
CARPENTER.....	\$ 23.71	13.28

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ELEC0008-002 05/23/2016

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
CABLE SPLICER.....	\$ 38.98	18.96
ELECTRICIAN.....	\$ 37.36	4.5%+18.63

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ELEC0032-003 06/01/2016

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland, Ridge & Salem Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 28.57	16.70

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ELEC0032-004 06/01/1998

ALLEN, HARDIN, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Richland, Ridge & Salem Townships)

	Rates	Fringes
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Line Construction

Equipment Operator.....	\$ 20.27	4.12+a
Groundman Truck Driver.....	\$ 14.43	3.63+a
Lineman.....	\$ 22.52	4.31+a

FOOTNOTE: a. Half day's Paid Holiday: The last 4 hours of the workday prior to Christmas or New Year's Day

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ELEC0038-002 04/25/2016

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

	Rates	Fringes
ELECTRICIAN		
Excluding Sound & Communications Work.....	\$ 37.13	20.38

FOOTNOTES;

- a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; & Christmas Day
- b. 1 week's paid vacation for 1 year's service; 2 weeks' paid vacation for 2 or more years' service

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ELEC0038-008 04/27/2017

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

	Rates	Fringes
Sound & Communication Technician		
Communications Technician...	\$ 26.55	10.92+a+b
Installer Technician.....	\$ 25.30	10.88+a+b

FOOTNOTES;

- a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; & Christmas Day
- b. 1 week's paid vacation for 1 year's service; 2 weeks' paid vacation for 2 or more years' service

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ELEC0064-003 11/28/2016

COLUMBIANA (Butler, Fairfield, Perry, Salem & Unity Townships) MAHONING (Austintown, Beaver, Berlin, Boardman, Canfield, Ellsworth, Coitsville, Goshen, Green, Jackson, Poland, Springfield & Youngstown Townships), & TRUMBULL (Hubbard & Liberty Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 32.27	14.39

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ELEC0071-001 01/02/2017

ASHLAND, CHAMPAIGN, CLARK, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston Townships), KNOX, LICKING, MADISON, MARION, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush, Washington & York Townships), UNION, VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships), and WASHINGTON COUNTIES

	Rates	Fringes
Line Construction		
Equipment Operators.....	\$ 32.24	12.65
Groundmen.....	\$ 23.28	10.68
Linemen & Cable Splicers....	\$ 36.64	13.63

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ELEC0071-004 01/02/2017

AUGLAIZE, CLINTON, DARKE, GREENE, LOGAN, MERCER, MIAMI, MONTGOMERY, PREBLE, and SHELBY COUNTIES

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 32.24	12.65
Groundman.....	\$ 23.28	10.68
Lineman & Cable Splicers....	\$ 36.64	13.63

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ELEC0071-005 12/26/2016

ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN

	Rates	Fringes
LINE CONSTRUCTION: Equipment Operator		
DOT/Traffic Signal & Highway Lighting Projects...	\$ 31.99	13.50
Municipal Power/Transit Projects.....	\$ 38.21	12.05
LINE CONSTRUCTION: Groundman		
DOT/Traffic Signal & Highway Lighting Projects...	\$ 24.82	11.70
Municipal Power/Transit Projects.....	\$ 29.67	12.92
LINE CONSTRUCTION: Linemen/Cable Splicer		
DOT/Traffic Signal & Highway Lighting Projects...	\$ 35.57	14.40
Municipal Power/Transit Projects.....	\$ 42.48	16.11

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ELEC0071-008 01/02/2017

## COLUMBIANA, MAHONING, and TRUMBULL COUNTIES

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 32.24	12.65
Groundman.....	\$ 23.28	10.68
Lineman & Cable Splicers....	\$ 36.64	13.63

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ELEC0071-010 01/02/2017BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE,  
STARK, SUMMIT, and WAYNE COUNTIES

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 32.24	12.65
Groundman.....	\$ 23.28	10.68
Lineman & Cable Splicers....	\$ 36.64	13.63

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ELEC0071-013 01/02/2017

## BROWN, BUTLER, CLERMONT, HAMILTON, and WARREN COUNTIES

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 32.24	12.65
Groundman.....	\$ 23.28	10.68
Lineman & Cable Splicers....	\$ 36.64	13.63

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ELEC0071-014 01/02/2017ADAMS, ATHENS, GALLIA, JACKSON (Bloomfield, Franklin, Hamilton,  
Lick, Jefferson, Scioto & Madison Townships), LAWRENCE, MEIGS,  
PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union  
Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton &  
Wilkesville Townships)

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 32.24	12.65
Groundman.....	\$ 23.28	10.68
Lineman & Cable Splicers....	\$ 36.64	13.63

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ELEC0082-002 12/05/2016CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN  
(Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 29.05	18.21

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ELEC0082-006 12/05/2016

CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN  
(Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 10.24	4.91
Installer/Technician.....	\$ 23.05	10.98

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ELEC0129-003 02/27/2017

LORAIN (Except Columbia Township) & MEDINA (Litchfield & Liverpool Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 33.35	16.27

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ELEC0129-004 02/27/2017

ERIE & HURON (Lyme, Ridgefield, Norwalk, Townsend, Wakeman,  
Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,  
Greenfield, Fairfield, Fitchville & New London Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 33.35	16.27

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ELEC0141-003 09/05/2016

BELMONT COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 32.45	24.22
ELECTRICIAN.....	\$ 29.20	23.63

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ELEC0212-003 06/06/2016

BROWN, CLERMONT & HAMILTON

	Rates	Fringes
Sound & Communication Technician.....	\$ 27.47	17.78

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ELEC0212-005 06/06/2016

BROWN, CLERMONT, and HAMILTON COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 27.47	17.78

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ELEC0245-003 01/01/2017

DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA,  
PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, and WOOD COUNTIES

	Rates	Fringes
Line Construction		
Cable Splicer.....	\$ 43.34	25.2%+5.50+a
Groundman/Truck Driver.....	\$ 16.49	25.2%+5.50+a
Heli-arc Welding.....	\$ 37.99	25.2%+5.50+a
Lineman.....	\$ 37.69	25.2%+5.50+a
Operator - Class 1.....	\$ 30.15	25.2%+5.50+a
Operator - Class 2.....	\$ 26.38	25.2%+5.50+a
Traffic Signal & Lighting		
Technician.....	\$ 33.92	25.2%+5.50+a

FOOTNOTE: a. 6 Observed Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

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ELEC0245-004 01/01/2017

ERIE COUNTY

	Rates	Fringes
Line Construction		
Cable Splicer.....	\$ 43.34	25.2%+5.50+a
Groundman/Truck Driver.....	\$ 16.49	25.2%+5.50+a
Lineman.....	\$ 37.69	25.2%+5.50+a
Operator - Class 1.....	\$ 30.15	25.2%+5.50+a
Operator - Class 2.....	\$ 26.38	25.2%+5.50+a

FOOTNOTE: a. 6 Observed Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

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ELEC0246-001 10/31/2016

	Rates	Fringes
ELECTRICIAN.....	\$ 36.00	27.00+a

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday.

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ELEC0306-005 05/30/2016

MEDINA (Brunswick, Chatham, Granger, Guilford, Harrisville, Hinckley, Homer, Lafayette, Medina, Montville, Sharon, Spencer, Wadsworth, Westfield & York Townships), PORTAGE (Atwater, Aurora, Brimfield, Deerfield, Franklin, Mantua, Randolph,



Ravenna, Rootstown, Shalersville, Streetsboro & Suffield Townships), SUMMIT & WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton, & Wayne Townships)

	Rates	Fringes
CABLE SPLICER.....	\$ 36.87	16.56
ELECTRICIAN.....	\$ 33.79	5%+16.41

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ELEC0317-002 06/01/2016

GALLIA & LAWRENCE

	Rates	Fringes
CABLE SPLICER.....	\$ 32.68	18.13
ELECTRICIAN.....	\$ 33.31	22.98

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ELEC0540-005 12/26/2016

CARROLL (Northern half, including Fox, Harrison, Rose & Washington Townships), COLUMBIANA (Knox Township), HOLMES, MAHONING (Smith Township), STARK, TUSCARAWAS (North of Auburn, Clay, Rush & York Townships), and WAYNE (South of Baughman, Chester, Green & Wayne Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 30.79	22.26

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ELEC0573-003 06/01/2015

ASHTABULA (Colebrook, Wayne, Williamsfield, Orwell & Windsor Townships), GEAUGA (Auburn, Middlefield, Parkman & Troy Townships), MAHONING (Milton Township), PORTAGE (Charlestown, Edinburg, Freedom, Hiram, Nelson, Palmyra, Paris & Windham Townships), and TRUMBULL (Except Liberty & Hubbard Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 30.57	16.85

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ELEC0575-001 05/29/2017

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 32.45	15.38

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 ELEC0648-001 09/05/2016

BUTLER and WARREN COUNTIES (Deerfield, Hamilton, Harlan,  
 Massie, Salem, Turtle Creek, Union & Washington Townships)

	Rates	Fringes
CABLE SPLICER.....	\$ 30.50	17.23
ELECTRICIAN.....	\$ 30.00	17.20

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ELEC0673-004 01/02/2017

ASHTABULA (Excluding Orwell, Colebrook, Williamsfield, Wayne &  
 Windsor Townships), GEAUGA (Burton, Chardon, Claridon, Hambden,  
 Huntsburg, Montville, Munson, Newbury & Thompson Townships) and  
 LAKE COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 33.03	3%+18.24
ELECTRICIAN.....	\$ 32.78	3%+18.24

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ELEC0683-002 05/30/2016

CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON,  
 PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison,  
 Monroe, Muhlenberg, Scioto, Walnut & Washington Townships), and  
 UNION COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 31.45	15.85
ELECTRICIAN.....	\$ 31.85	17.38

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ELEC0688-003 05/28/2017

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &  
 Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,  
 Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &  
 Jefferson Townships), MARION, MORROW, RICHLAND and WYANDOT  
 (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships)  
 COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 28.46	17.35

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ELEC0972-002 06/01/2017

ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (Brown, Knox,  
 Madison, Vinton & Wilkesville Townships), and WASHINGTON  
 COUNTIES

	Rates	Fringes
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CABLE SPLICER.....	\$ 33.06	24.55
ELECTRICIAN.....	\$ 32.81	24.54

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 ELEC1105-001 01/02/2017

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY, and TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 30.05	16.38

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 ENGI0018-003 06/01/2016

ASHTABULA, CUYAHOGA, ERIE, GEauga, LAKE, LORAIN, MEDINA, PORTAGE, and SUMMIT COUNTIES

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 35.33	14.41
GROUP 2.....	\$ 35.23	14.41
GROUP 3.....	\$ 34.19	14.41
GROUP 4.....	\$ 32.97	14.41
GROUP 5.....	\$ 27.68	14.41
GROUP 6.....	\$ 35.58	14.41
GROUP 7.....	\$ 35.58	14.41

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; Wheel Excavator; and Asphalt Plant Engineer (Cleveland District

Only).

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Horizontal Directional Drill (Over 50,000 ft lbs thrust); Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); Vermeer type Concrete Saw; and Maintenance Operators (Portage and Summit Counties Only).

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer (Portage and Summit Counties Only); Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); Welding Machines; and Railroad Tie Inserter/Remover; Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types); Forklift; Form Trencher; Hydro Hammer expect masonry; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

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 ENGI0018-004 06/01/2016

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN,  
 BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON,  
 COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD,  
 FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON,  
 HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES,  
 HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,  
 LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE,  
 MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING,  
 PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS,  
 SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN  
 WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, and  
 YANDOT COUNTIES

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 33.84	14.41
GROUP 2.....	\$ 33.72	14.41
GROUP 3.....	\$ 32.68	14.41
GROUP 4.....	\$ 31.50	14.41
GROUP 5.....	\$ 26.04	14.41
GROUP 6.....	\$ 34.09	14.41
GROUP 7.....	\$ 34.09	14.41

#### OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; and Wheel Excavator.

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Hydro Milling

Machine; Horizontal Directional Drill (over 50,000 ft. lbs. thrust); Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); and Vermeer type Concrete Saw.

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Railroad Tie Inserter/Remover; Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); and Welding Machines; Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift; Form Trencher; Hydro Hammer expect masonry; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonary Forklift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

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ENGI0066-023 06/01/2014

COLUMBIANA, MAHONING & TRUMBULL COUNTIES

Rates

Fringes

POWER EQUIPMENT OPERATOR

ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - A & B.....\$ 37.55		17.51
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - A & B.....\$ 37.22		17.51
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 3 - A & B.....\$ 33.49		17.51
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 4 - A & B.....\$ 29.54		17.51
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 5 - A & B.....\$ 26.15		17.51
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - C & D.....\$ 34.42		17.51
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - C & D.....\$ 34.12		17.51
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 3 - C & D.....\$ 30.70		17.51
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 4 - C & D.....\$ 27.08		17.51
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 5 - C & D.....\$ 23.97		17.51
ALL OTHER WORK		
GROUP 1.....\$ 31.29		17.51
ALL OTHER WORK		
GROUP 2.....\$ 31.02		17.51
ALL OTHER WORK		
GROUP 3.....\$ 27.91		17.51
ALL OTHER WORK		
GROUP 4.....\$ 24.62		17.51
ALL OTHER WORK		
GROUP 5.....\$ 21.79		17.51
GROUP 1 - Rig, Pile Driver or Caisson Type; & Rig, Pile Hydraulic Unit Attached		
GROUP 2 - Asphalt Heater Planer; Backfiller with Drag		

Attachment; Backhoe; Backhoe with Shear attached; Backhoe-Rear Pivotal Swing; Batch Plant-Central Mix Concrete; Batch Plant, Portable concrete; Berm Builder-Automatic; Boat Derrick; Boat-Tug; Boring Machine Attached to Tractor; Bullclam; Bulldozer; C.M.I. Road Builder & Similar Type; Cable Placer & Layer; Carrier-Straddle; Carryall-Scraper or Scoop; Chicago Boom; Compactor with Blade Attached; Concrete Saw (Vermeer or similar type); Concrete Spreader Finisher; Combination, Bidwell Machine; Crane; Crane-Electric Overhead; Crane-Rough Terrain; Crane-Side Boom; Crane-Truck; Crane-Tower; Derrick-Boom; Derrick-Car; Digger-Wheel (Not trencher or road widener); Double Nine; Drag Line; Dredge; Drill-Kenny or Similar Type; Easy Pour Median Barrier Machine (or similar type); Electromatic; Frankie Pile; Gradall; Grader; Gurry; Self-Propelled; Heavy Equipment Robotics Operator/Mechanic; Hoist-Monorail; Hoist-Stationary & Mobile Tractor; Hoist, 2 or 3 drum; Horizontal Directional Drill Operator; Jackall; Jumbo Machine; Kocal & Kuhlman; Land-Seagoing Vehicle; Loader, Elevating; Loader, Front End; Loader, Skid Steer; Locomotive; Mechanic/Welder; Metro Chip Harvester with Boom; Mucking Machine; Paver-Asphalt Finishing Machine; Paver-Road Concrete; Paver-Slip Form (C.M.I. or similar); Place Crete Machine with Boom; Post Driver (Carrier mounted); Power Driven Hydraulic Pump & Jack (When used in Slip Form or Lift Slab Construction); Pump Crete Machine; Regulator-Ballast; Hydraulic Power Unit not attached to Rig for Pile Drillings; Rigs-Drilling; Roto Mill or similar Full Lane (8' Wide & Over); Roto Mill or similar type (Under 8'); Shovel; Slip Form Curb Machine; Speedwing; Spikemaster; Stonecrusher; Tie Puller & Loader; Tie Tamper; Tractor-Double Boom; Tractor with Attachments; Truck-Boom; Truck-Tire; Trench Machine; Tunnel Machine (Mark 21 Java or similar); & Whirley (or similar type)

GROUP 3 - Asphalt Plant; Bending Machine (Pipeline or similar type); Boring machine, Motor Driven; Chip Harvester without Boom; Cleaning Machine, Pipeline Type; Coating Machine, Pipeline Type; Compactor; Concrete Belt Placer; Concrete Finisher; Concrete Planer or Asphalt; Concrete Spreader; Elevator; Fork Lift (Home building only); Fork lift & Lulls; Fork Lift Walk Behind (Hoisting over 1 buck high); Form Line Machine; Grease Truck operator; Grout Pump; Gunnite Machine; Horizontal Directional Drill Locator; Single Drum Hoist with or without Tower; Huck Bolting Machine; Hydraulic Scaffold (Hoisting building materials); Paving Breaker (Self-propelled or Ridden); Pipe Dream; Pot Fireperson (Power Agitated); Refrigeration Plant; Road Widener; Roller; Sasgen Derrick; Seeding Machine; Soil Stabilizer (Pump type); Spray Cure Machine, Self-Propelled; Straw Blower Machine; Sub-Grader; Tube Finisher or Broom C.M.I. or similar type; & Tugger Hoist

GROUP 4 - Air Curtain Destructor & Similar Type; Batch Plant-Job Related; Boiler Operator; Compressor; Conveyor; Curb Builder, self-propelled; Drill Wagon; Generator Set; Generator-Steam; Heater-Portable Power; Hydraulic Manipulator Crane; Jack-Hydraulic Power driven; Jack-Hydraulic (Railroad); Ladavator; Minor Machine



Operator; Mixer-Concrete; Mulching Machine; Pin Puller;  
 Power Broom; Pulverizer; Pump; Road Finishing Machine (Pull  
 Type); Saw-Concrete-Self-Propelled (Highway Work); Signal  
 Person; Spray Cure Machine-Motor Powered; Stump Cutter;  
 Tractor; Trencher Form; Water Blaster; Steam Jenny;  
 Syphon; Vibrator-Gasoline; & Welding Machine

GROUP 5 - Brakeperson; Fireperson; & Oiler

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 IRON0017-002 05/01/2016

ASHTABULA (North of Route 6, starting at the Geauga County  
 Line, proceeding east to State Route 45), CUYAHOGA, ERIE  
 (Eastern 2/3), GEAUGA, HURON (East of a line drawn from the  
 north border through Monroeville & Willard), LAKE, LORAIN,  
 MEDINA (North of Old Rte. #224), PORTAGE (West of a line from  
 Middlefield to Shalersville to Deerfield), and SUMMIT (North of  
 Old Rte. #224, including city limits of Barberton) COUNTIES

	Rates	Fringes
IRONWORKER		
Ornamental, Reinforcing, & Structural.....	\$ 33.33	20.55

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 IRON0017-010 05/01/2016

ASHTABULA (Eastern part from Lake Erie on the north to route  
 #322 on the south to include Conneaut, Kingsville, Sheffield,  
 Denmark, Dorset, Cherry Valley, Wayne, Monroe, Pierpont,  
 Richmond, Andover & Williamsfield Townships)

	Rates	Fringes
IRONWORKER		
Structural, including metal building erection & Reinforcing.....	\$ 33.33	20.55

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 IRON0044-001 06/01/2017

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT,  
 CLINTON (South of a line drawn from Blanchester to Lynchburg),  
 HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of  
 county inside lines drawn from Marshall to Lynchburg from the  
 northern county line through E. Monroe to Marshall) and WARREN  
 (South of a line drawn from Blanchester through Morrow to the  
 west county line) COUNTIES

	Rates	Fringes
IRONWORKER, REINFORCING		
Beyond 30-mile radius of Hamilton County Courthouse..	\$ 27.85	20.70
Up to & including 30-mile radius of Hamilton County		

Courthouse.....\$ 27.60 20.70

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 IRON0044-002 06/01/2017

CLINTON (South of a line drawn from Blanchester to Lynchburg),  
 HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of  
 county inside lines drawn from Marshall to Lynchburg from the  
 northern county line through E. Monroe to Marshall) & WARREN  
 (South of a line drawn from Blanchester through Morrow to the  
 west county line)

Rates Fringes

IRONWORKER  
 Fence Erector.....\$ 25.62 20.70  
 Ornamental; Structural.....\$ 26.97 20.70

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 IRON0055-003 07/01/2015

CRAWFORD (Area Between lines drawn from where Hwy #598 & #30  
 meet through N. Liberty to the northern border & from said Hwy  
 junction point due west to the border), DEFIANCE (S. of a line  
 drawn from where Rte. #66 meets the northern line through  
 Independence to the eastern county border), ERIE (Western 1/3),  
 FULTON, HANCOCK, HARDIN (North of a line drawn from Maysville  
 to a point 4 miles south of the northern line on the eastern  
 line), HENRY, HURON (West of a line drawn from the northern  
 border through Monroeville & Willard), LUCAS, OTTAWA, PUTNAM  
 (East of a line drawn from the northern border down through  
 Miller City to where #696 meets the southern border), SANDUSKY,  
 SENECA, WILLIAMS (East of a line drawn from Pioneer through  
 Stryker to the southern border), WOOD & WYANDOT (North of Rte.  
 #30)

Rates Fringes

IRONWORKER  
 Fence Erector.....\$ 20.00 20.13  
 Flat Road Mesh.....\$ 20.75 18.00  
 Tunnels & Caissons Under  
 Pressure.....\$ 28.50 18.00  
 All Other Work.....\$ 29.12 21.47

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 IRON0147-002 06/01/2015

ALLEN (Northern half), DEFIANCE (Northern part, excluding south  
 of a line drawn from where Rte. #66 meets the northern line  
 through Independence to the eastern county border), MERCER  
 (Northern half), PAULDING, PUTNAM (Western part, excluding east  
 of a line drawn from the northern border down through Miller  
 City to where #696 meets the southern border), VAN WERT, and  
 WILLIAMS (Western part, excluding east of a line drawn from  
 Pioneer through Stryker to the southern border) COUNTIES

Rates Fringes

IRONWORKER.....\$ 25.39 20.64

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 IRON0172-002 06/01/2016

CHAMPAIGN (Eastern one-third), CLARK (Eastern one-fourth), COSHOCTON (West of a line beginning at the northwestern county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (Excluding a line drawn from Roundhead to Maysville), HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, LOGAN (Eastern one-third), MADISON, MARION, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE (Northern half), ROSS, UNION, VINTON and WYANDOT (South of Rte. #30) COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 28.12	19.94

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IRON0207-004 06/01/2015

ASHTABULA (Southern part starting at the Geauga County line), COLUMBIANA (E. of a line from Damascus to Highlandtown), MAHONING (N. of Old Route #224), PORTAGE (E. of a line from Middlefield to Shalersville to Deerfield) & TRUMBULL

	Rates	Fringes
IRONWORKER		
Layout; Sheeter.....	\$ 29.06	22.70
Ornamental; Reinforcing;		
Structural.....	\$ 28.06	22.70

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IRON0290-002 06/01/2017

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrrtown & Woodsdale), CHAMPAIGN (Excluding east of a line drawn from Catawla to the point where #68 intersects the northern county line), CLARK (Western two-thirds), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), DARKE, GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), LOGAN (West of a line drawn from West Liberty to where the northern county line meets the western county line of Hardin), MERCER (Southern half), MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the western county line) COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 27.50	21.48

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IRON0549-003 12/01/2015

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM  
(Excluding portion west of a line starting at Adams Mill going  
to Adamsville and going from Adamsville through Blue Rock to  
the south border)

	Rates	Fringes
IRONWORKER.....	\$ 32.74	17.84

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IRON0550-004 05/01/2016

ASHLAND, CARROLL, COLUMBIANA (W. of a line from Damascus to  
Highlandtown), COSHOCTON (E. of a line beginning at NW Co. line  
going through Walhonding & Tunnel Hill to the South Co. line),  
HOLMES, HURON (S. of Old Rte. #224), MAHONING (S. of Old Rte.  
#224), MEDINA (S. of Old Rte. #224), PORTAGE (S. of Old Rte.  
#224), RICHLAND, STARK, SUMMIT (S. of Old Rte. #224, Excluding  
city limits of Barberton), TUSCARAWAS, & WAYNE

	Rates	Fringes
Ironworkers:Structural, Ornamental and Reinforcing.....	\$ 27.20	18.42

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IRON0769-004 06/01/2017

ADAMS (Eastern Half), GALLIA, JACKSON (Southern Half), LAWRENCE  
& SCIOTO

	Rates	Fringes
IRONWORKER.....	\$ 31.33	23.97

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IRON0787-003 06/01/2015

ATHENS, MEIGS, MORGAN, NOBLE, and WASHINGTON COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 30.28	20.15

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LABO0265-008 05/01/2017

	Rates	Fringes
LABORER		
ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES		
GROUP 1.....	\$ 30.25	10.75
GROUP 2.....	\$ 30.42	10.75
GROUP 3.....	\$ 30.75	10.75
GROUP 4.....	\$ 31.20	10.75
CUYAHOGA AND GEAUGA COUNTIES ONLY: SEWAGE		

PLANTS, WASTE PLANTS, WATER TREATMENT FACILITIES, PUMPING STATIONS, & ETHANOL PLANTS CONSTRUCTION.....	\$ 32.86	10.75
CUYAHOGA, GEauga & LAKE COUNTIES		
GROUP 1.....	\$ 31.48	10.75
GROUP 2.....	\$ 31.65	10.75
GROUP 3.....	\$ 31.98	10.75
GROUP 4.....	\$ 32.43	10.75
REMAINING COUNTIES OF OHIO		
GROUP 1.....	\$ 29.82	10.75
GROUP 2.....	\$ 29.99	10.75
GROUP 3.....	\$ 30.32	10.75
GROUP 4.....	\$ 30.77	10.75

## LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Asphalt Raker; Concrete Puddler; Kettle Man Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Paint Striper; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarner; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker

GROUP 4 - Miner (With Air-pressurized - \$1.00 premium); & Gunite Nozzle Person

TUNNEL LABORER WITH AIR-PRESSURIZED ADD \$1.00 TO BASE RATE

SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

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 PAIN0006-002 05/01/2016

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. of the East-West Turnpike) & SUMMIT (N. of the East-West Turnpike)

	Rates	Fringes
PAINTER		
COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS		
GROUP 1.....	\$ 27.77	14.21
GROUP 2.....	\$ 28.17	14.21
GROUP 3.....	\$ 28.47	14.21
GROUP 4.....	\$ 29.47	14.21
COMMERCIAL REPAINT		
GROUP 1.....	\$ 26.27	14.21
GROUP 2.....	\$ 26.67	14.21
GROUP 3.....	\$ 26.97	14.21

PAINTER CLASSIFICATIONS - COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS

GROUP 1 - Brush; & Roller

GROUP 2 - Sandblasting & Buffing

GROUP 3 - Spray Painting; Closed Steel Above 55 feet; Bridges & Open Structural Steel; Tanks - Water Towers; Bridge Painters; Bridge Riggers; Containment Builders

GROUP 4 - Bridge Blaster

PAINTER CLASSIFICATIONS - COMMERCIAL REPAINT

GROUP 1 - Brush; & Roller

GROUP 2 - Sandblasting & Buffing

GROUP 3 - Spray Painting

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 PAIN0007-002 07/01/2016

FULTON, HENRY, LUCAS, OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD

	Rates	Fringes
PAINTER		
NEW COMMERCIAL WORK		
GROUP 1.....	\$ 25.22	15.21
GROUP 2.....	\$ 25.47	15.21
GROUP 3.....	\$ 25.72	15.21
GROUP 4.....	\$ 25.82	15.21
GROUP 5.....	\$ 25.92	15.21
GROUP 6.....	\$ 26.22	15.21

GROUP 7.....	\$ 26.22	15.21
GROUP 8.....	\$ 26.52	15.21
GROUP 9.....	\$ 26.97	15.21

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Spray & Sandblasting Pot Tender

GROUP 2 - Refineries & Refinery Tanks; Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Lead Abatement

GROUP 5 - All Methods of Spray

GROUP 6 - Solvent-Based Catalized Epoxy Materials of 2 or More Component Materials, to include Solvent-Based Conversion Varnish (excluding water based)

GROUP 7 - Spray Solvent Based Material; Sand & Abrasive Blasting

GROUP 8 - Towers; Tanks; Bridges; Stacks Over 30 Feet

GROUP 9 - Epoxy Spray (excluding water based)

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 PAIN0012-008 05/01/2017

BUTLER COUNTY

	Rates	Fringes
PAINTER		
GROUP 1.....	\$ 21.95	9.54
GROUP 2.....	\$ 24.61	9.54
GROUP 3.....	\$ 25.11	9.54
GROUP 4.....	\$ 25.36	9.54
GROUP 5.....	\$ 25.61	9.54

PAINTER CLASSIFICATIONS

GROUP 1: Bridge Equipment Tender; Bridge/Containment Builder

GROUP 2: Brush & Roller

GROUP 3: Spray

GROUP 4: Sandblasting; & Waterblasting

GROUP 5: Elevated Tanks; Steeplejack Work; Bridge; & Lead Abatement

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PAIN0012-010 05/01/2017

BROWN, CLERMONT, CLINTON, HAMILTON &amp; WARREN

	Rates	Fringes
PAINTER		
HEAVY & HIGHWAY BRIDGES-		
GUARDRAILS-LIGHTPOLES-		
STRIPING		
Bridge Equipment Tender and Containment Builder....	\$ 21.95	9.54
Bridges when highest point of clearance is 60 feet or more; & Lead Abatement Projects.....	\$ 25.61	9.54
Brush & Roller.....	\$ 24.61	9.54
Sandblasting & Hopper Tender; Water Blasting.....	\$ 25.36	9.54
Spray.....	\$ 25.11	9.54

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PAIN0093-001 12/01/2016ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE and  
WASHINGTON COUNTIES

	Rates	Fringes
PAINTER		
Bridges; Locks; Dams; Tension Towers; & Energized Substations.....	\$ 33.14	16.70
Power Generating Facilities..	\$ 29.99	16.70

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PAIN0249-002 05/01/2016

CLARK, DARKE, GREENE, MIAMI, MONTGOMERY &amp; PREBLE

	Rates	Fringes
PAINTER		
GROUP 1 - Brush & Roller....	\$ 23.29	9.40
GROUP 2 - Swing, Scaffold Bridges; Structural Steel; Open Acid Tank; High Tension Electrical Equipment; & Hot Pipes.....	\$ 23.29	9.40
GROUP 3 - Spray; Sandblast; Steamclean; Lead Abatement.....	\$ 24.04	9.40
GROUP 4 - Steeplejack Work..	\$ 24.24	9.40
GROUP 5 - Coal Tar.....	\$ 24.79	9.40
GROUP 6 - Bridge Equipment Tender & or Containment Builder.....	\$ 26.53	9.40
GROUP 7 - Tanks, Stacks & Towers.....	\$ 26.93	9.40



GROUP 8 - Bridge Blaster,  
 Rigger.....\$ 32.90 9.40

PAIN0356-002 09/01/2009

KNOX, LICKING, MUSKINGUM, and PERRY

	Rates	Fringes
PAINTER		
Bridge Equipment Tenders and Containment Builders....	\$ 27.93	7.25
Bridges; Blasters; and Riggers.....	\$ 34.60	7.25
Brush and Roller.....	\$ 20.93	7.25
Sandblasting; Steam Cleaning; Waterblasting; and Hazardous Work.....	\$ 25.82	7.25
Spray.....	\$ 21.40	7.25
Structural Steel and Swing Stage.....	\$ 25.42	7.25
Tanks; Stacks; and Towers...\$	28.63	7.25

PAIN0438-002 12/01/2016

BELMONT, HARRISON and JEFFERSON COUNTIES

	Rates	Fringes
PAINTER		
Bridges, Locks, Dams, Tension Towers & Energized Substations.....	\$ 31.90	15.88
Power Generating Facilities.\$	28.75	15.88

PAIN0476-001 06/01/2017

COLUMBIANA, MAHONING, and TRUMBULL COUNTIES

	Rates	Fringes
PAINTER		
GROUP 1.....	\$ 25.37	12.93
GROUP 2.....	\$ 27.37	12.93
GROUP 3.....	\$ 25.58	12.93
GROUP 4.....	\$ 25.87	12.93
GROUP 5.....	\$ 26.02	12.93
GROUP 6.....	\$ 26.37	12.93
GROUP 7.....	\$ 27.37	12.93

PAINTER CLASSIFICATIONS:

- GROUP 1: Painters, Brush & Roller
- GROUP 2: Bridges
- GROUP 3: Structural Steel
- GROUP 4: Spray, Except Bar Joist/Deck

GROUP 5: Epoxy/Mastic; Spray- Bar Joist/Deck; Working Above 50 Feet; and Swingstages

GROUP 6: Tanks; Sandblasting

GROUP 7: Towers; Stacks

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PAIN0555-002 06/01/2017

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO

	Rates	Fringes
PAINTER		
GROUP 1.....	\$ 30.40	15.12
GROUP 2.....	\$ 31.80	15.12
GROUP 3.....	\$ 33.21	15.12
GROUP 4.....	\$ 35.95	15.12

PAINTER CLASSIFICATIONS

GROUP 1 - Containment Builder

GROUP 2 - Brush; Roller; Power Tools, Under 40 feet

GROUP 3 - Sand Blasting; Spray; Steam Cleaning; Pressure Washing; Epoxy & Two Component Materials; Lead Abatement; Hazardous Waste; Toxic Materials; Bulk & Storage Tanks of 25,000 Gallon Capacity or More; Elevated Tanks

GROUP 4 - Stacks; Bridges

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PAIN0603-002 06/01/2012

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
PAINTER		
Bridges; Towers, Poles & Stacks; Sandblasting Steel; Structural Steel & Metalizing.....	\$ 20.71	11.00
Brush & Roller.....	\$ 20.00	11.00
Spray; Tank Interior & Exterior.....	\$ 20.53	11.00

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PAIN0639-001 05/01/2011

	Rates	Fringes
Sign Painter & Erector.....	\$ 20.61	3.50+a+b+c

FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day  
 b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10

days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation  
 c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

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 PAIN0788-002 06/01/2016

ASHLAND, CRAWFORD, ERIE, HANCOCK, HURON, MARION, MORROW, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), RICHLAND, SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 23.52	12.07
Structural Steel.....	\$ 25.12	12.07

WINTER REPAINT: Between December 1 to March 31 - 90%JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable. While operating sprayguns, sandblasting, cobblasting and high pressure waterblasting (4000psi).

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken. For working on stacks, tanks, and towers over 40 feet in height.

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 PAIN0813-005 12/01/2008

GALLIA, LAWRENCE, MEIGS & VINTON

	Rates	Fringes
PAINTER		
Base Rate.....	\$ 24.83	10.00
Bridges, Locks, Dams & Tension Towers.....	\$ 27.83	10.00

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 PAIN0841-001 06/01/2017

MEDINA, PORTAGE (South of and including Ohio Turnpike), and SUMMIT (South of and including Ohio Turnpike) COUNTIES

Rates	Fringes
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Painters:

GROUP 1.....	\$ 25.33	13.92
GROUP 2.....	\$ 25.98	13.92
GROUP 3.....	\$ 26.08	13.92
GROUP 4.....	\$ 26.18	13.92
GROUP 5.....	\$ 26.58	13.92
GROUP 6.....	\$ 39.20	11.75
GROUP 7.....	\$ 26.58	13.92

PAINTER CLASSIFICATIONS:

GROUP 1 - Brush, Roller & Paperhanger

GROUP 2 - Epoxy Application

GROUP 3 - Swing Scaffold, Bosum Chair, & Window Jack

GROUP 4 - Spray Gun Operator of Any & All Coatings

GROUP 5 - Sandblast, Painting of Standpipes, etc. from Scaffolds, Bridge Work and/or Open Structural Steel, Standpipes and/or Water Towers

GROUP 6 - Public & Commerce Transportation, Steel or Galvanized, Bridges, Tunnels & Related Support Items (concrete)

GROUP 7 - Synthetic Exterior, Drywall Finisher and/or Taper, Drywall Finisher and Follow-up Man Using Automatic Tools

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PAIN1020-002 04/01/2017

ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, and WILLIAMS COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 24.33	11.97
Drywall Finishing & Taping..	\$ 23.03	11.97
Lead Abatement.....	\$ 26.08	11.97
Spray, Sandblasting Pressure Cleaning, & Refinery.....	\$ 25.08	11.97
Swing Stage, Chair, Spiders, & Cherry Pickers...	\$ 24.58	11.97
Wallcoverings.....	\$ 21.93	11.97

All surfaces 40 ft. or over where material is applied to or labor performed on, above ground level (exterior), floor level (interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

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PAIN1275-002 05/01/2017

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS  
& UNION

	Rates	Fringes
PAINTER		
Bridges.....	\$ 35.28	11.81
Brush; Roller.....	\$ 26.50	11.81
Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over)& Hazardous Work.....	\$ 27.20	11.81
Spray.....	\$ 27.00	11.81
Stacks; Tanks; & Towers.....	\$ 29.31	11.81
Structural Steel & Swing Stage.....	\$ 26.10	11.81

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PLUM0042-002 07/01/2016

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND  
& WYANDOT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 31.95	20.32

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PLUM0050-002 07/04/2016

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,  
PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 40.00	24.36

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PLUM0055-003 05/01/2017

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, MEDINA (N. of Rte. #18 &  
Smith Road) & SUMMIT (N. of Rte. #303, including the corporate  
limits of the city of Hudson)

	Rates	Fringes
PLUMBER.....	\$ 34.90	24.43

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PLUM0083-001 07/01/2013

BELMONT & MONROE (North of Rte. #78)

	Rates	Fringes
Plumber and Steamfitter.....	\$ 25.42	27.83

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PLUM0094-002 05/01/2017

CARROLL (Northen Half), STARK, and WAYNE COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 35.23	18.09
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PLUM0120-002 05/01/2017		

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN (the C.E.I. Power House in Avon Lake), MEDINA (N. of Rte. #18) & SUMMIT (N. of #303)

	Rates	Fringes
PIPEFITTER.....	\$ 37.27	23.80
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PLUM0162-002 06/01/2017		

CHAMPAIGN, CLARK, CLINTON, DARKE, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 29.25	21.52
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* PLUM0168-002 06/01/2017		

MEIGS, MONROE (South of Rte. #78), MORGAN (South of Rte. #78) & WASHINGTON

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 33.42	29.08
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PLUM0189-002 06/01/2013		

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, MARION, PERRY, PICKAWAY, ROSS & UNION

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 34.08	20.06
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PLUM0219-002 06/01/2016		

MEDINA (Rte. #18 from eastern edge of Medina Co., west to eastern corporate limits of the city of Medina, & on the county road from the west corporate limits of Medina running due west to and through community of Risley to the western edge of Medina County - All territory south of this line), PORTAGE, and SUMMIT (S. of Rte. #303) COUNTIES

	Rates	Fringes
Plumber and Steamfitter.....	\$ 36.27	23.24

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 PLUM0392-002 06/01/2017

BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 31.11	19.52

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 \* PLUM0396-001 06/01/2017

COLUMBIANA (Excluding Washington & Yellow Creek Townships & Liverpool Twp. - Secs. 35 & 36 - West of County Road #427), MAHONING and TRUMBULL COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 33.50	23.36

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 PLUM0495-002 06/01/2017

CARROLL (Rose, Monroe, Union, Lee, Orange, Perry & Loudon Townships), COLUMBIANA (Washington & Yellow Creek Townships & Liverpool Township, Secs. 35 & 36, West of County Rd. #427), COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelville west on State Rte. #37 to the Perry County line), MUSKINGUM, NOBLE, and TUSCARAWAS COUNTIES

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 37.77	22.56

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 PLUM0577-002 06/01/2016

ADAMS, ATHENS, GALLIA, HIGHLAND, JACKSON, LAWRENCE, PIKE, SCIOTO & VINTON

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 32.60	22.73

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 PLUM0776-002 07/01/2016

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY and VAN WERT COUNTIES

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 34.25	22.09

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 TEAM0377-003 05/01/2012

STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 23.38	13.18
GROUP 2.....	\$ 23.80	13.18

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service;  
 4-Wheel Dump; Oil Distributor & Tandem

GROUP 2 - Tractor-Trailer Combination: Fuel; Pole Trailer;  
 Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man When  
 Operated From Cab; 5 Axles & Over; Belly Dump; End Dump;  
 Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck  
 Mechanic

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 TEAM0436-002 05/01/2016

CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 27.90	14.85
GROUP 2.....	\$ 28.40	14.85

GROUP 1: Straight & Dump, Straight Fuel

GROUP 2: Semi Fuel, Semi Tractor, Euclids, Darts, Tank,  
 Asphalt Spreaders, Low Boys, Carry-All, Tourna-Rockers,  
 Hi-Lifts, Extra Long Trailers, Semi-Pole Trailers, Double  
 Hook-Up Tractor Trailers including Team Track & Railroad  
 Siding, Semi-Tractor & Tri-Axle Trailer, Tandem Tractor &  
 Tandem Trailer, Tag Along Trailer, Expandable Trailer or  
 Towing Requiring Road Permits, Ready-Mix (Agitator or  
 Non-Agitator), Bulk Concrete Driver, Dry Batch Truck,  
 Articulated End Dump

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 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](http://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)).

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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.

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#### 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.

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END OF GENERAL DECISION

**SPECIFICATIONS FOR WATER MAINS**

WATERLINE SHALL BE INSTALLED, TESTED AND STERILIZED UNDER THE DIRECT SUPERVISION OF THE CITY OF OREGON DIVISION OF WATER. NO DEVIATION FROM THESE SPECIFICATIONS WILL BE PERMITTED.

EXCEPT AS MODIFIED BY THESE PLANS AND BY THE DETAILED SPECIFICATIONS PERTAINING THERETO, ALL WORK ON THIS PROJECT SHALL BE GOVERNED BY THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 1, 2013 AND BY SUCH SUPPLEMENTAL STATE SPECIFICATIONS AS MAY BE IN EFFECT 14 CALENDAR DAYS PRIOR TO THE AWARD OF THIS PROJECT. IN THE AFORESAID SPECIFICATIONS, THE WORDS "STATE", "DIRECTOR", AND "ENGINEER" SHALL BE HELD TO MEAN COMMISSIONER OF WATER OR HIS REPRESENTATIVE. THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (AMERICAN WATER WORKS ASSOCIATION) AND THE AMERICAN SOCIETY OF TESTING AND MATERIALS HEREIN REFERRED TO, UNLESS OTHERWISE NOTED, SHALL BE THE LATEST SPECIFICATIONS OF THE RESPECTIVE ORGANIZATIONS.

ALL MATERIAL SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA. COPIES OF SUPPLIERS' INVOICES SHALL BE SUBMITTED TO ENGINEER.

THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT THE PIPE, FITTINGS AND APPURTENANCES HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE APPLICABLE REFERENCED STANDARDS. A COPY OF THE AFFIDAVIT, INDICATING THE PROJECT ON WHICH THE MATERIAL IS TO BE USED, SHALL BE FORWARDED TO THE CITY OR THEIR ENGINEER.

**SPECIAL NOTICE**

THE CITY OF OREGON HAS APPROXIMATELY 26 MILES OF EXISTING PRESTRESSED REINFORCED CONCRETE TRUNK WATER MAINS THAT CIRCUMVENT THE CITY. BY THEIR VERY NATURE, EMERGENCY REPAIRS ARE EXPENSIVE AND TIME CONSUMING. THESE CONCRETE MAINS ARE LOCATED ON OR CROSS THE FOLLOWING ROADS; NORTH CURTICE - CEDAR POINT - LALLENDORF - SEAMAN - COY - NAVARRE - WHEELING - STARR - BROWN. TRUNK ELEVATION VARIES FROM FOUR TO TEN FEET.

NO EXCAVATION WILL BE PERMITTED OVER, UNDER, OR IN THE IMMEDIATE VICINITY OF THE TRUNK MAINS WITHOUT PRIOR PERMISSION FROM THE DIRECTOR OF PUBLIC SERVICE OR HIS AUTHORIZED REPRESENTATIVE.

CONTACT THE OREGON DIVISION OF WATER (419-698-7039) TO HAVE THE WATER LINES MARKED. WITH REGARD TO THE VARIOUS OTHER UTILITIES, THEY CAN BE CONTACTED THROUGH OHIO UTILITIES PROTECTION SERVICE AT 800-362-2764.

**WATER SUPPLY PIPE**

**DUCTILE CAST IRON PIPE**

DUCTILE CAST IRON PIPE SHALL BE DESIGNED IN ACCORDANCE WITH AWWA C150 AND MANUFACTURED IN ACCORDANCE WITH AWWA C151. THE PIPE SHALL BE WITH PUSH TYPE JOINTS MEETING THE REQUIREMENTS OF AWWA C-151 AND ANSI THICKNESS CLASS 52. THE PIPE SHALL BE FIELD WRAPPED WITH A MINIMUM 8-MILL THICK POLYETHYLENE TUBE MEETING THE REQUIREMENTS OF AWWA 105. ALL PIPE SHALL BE COATED WITH A BITUMINOUS MATERIAL ON THE OUTSIDE AND SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.

FITTINGS SHALL BE OF DUCTILE IRON, SHALL CONFORM TO AWWA C110 AND/OR C153 LATEST REVISION AND SHALL BE COATED AND LINED AS SPECIFIED FOR THE PIPE. FITTINGS SHALL BE OF THE MECHANICAL JOINT OR PUSH-ON JOINT TYPE IN ACCORDANCE WITH AWWA C111, INCORPORATING RUBBER GASKETS. FITTINGS THAT REQUIRE CONCRETE THRUST BLOCKS SHALL BE COMPLETELY WRAPPED PRIOR TO PLACING THE BLOCKING. ALL VALVE, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL ALSO BE PROPERLY WRAPPED TO EITHER THE GROUND LINE OR THE UNDER SIDE OF THE OPERATING NUT OR VALVE.

THE PIPE SHALL BE BEDDED WITH FINE EXCAVATED MATERIAL UNDER, AROUND AND OVER THE PIPE FOR A MINIMUM DISTANCE OF 6 INCHES ABOVE THE TOP OF THE PIPE BARREL. THE MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6-INCHES IN THICKNESS, LOOSE MEASUREMENT, AND SECURELY COMPACTED BY HAND OR MECHANICAL TAMPING TO SECURE A GOOD COMPACTION WHILE TAKING CARE NOT TO DISPLACE OR DAMAGE THE PIPE OR JOINTS.

PAYMENT FOR WATER MAIN SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR THE RESPECTIVE ITEMS ACCEPTED IN PLACE, WHICH PRICE SHALL CONSTITUTE FULL COMPENSATION FOR CLEARING, FURNISHING, HANDLING, PLACING AND LAYING OF PIPES, FITTINGS, POLYETHYLENE TUBE, CONCRETE THRUST BLOCK, RESTRAINING JOINTS, BEDDING MATERIALS, AND FOR ALL LABOR, MATERIAL, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK INCLUDING ALL EXCAVATION, BACKFILL, PAVEMENT REMOVAL AND REPLACEMENT, SUPPORTING OTHER UTILITIES, RESTORATION OF LANDSCAPING, SHEETING, ETC. RESTRAINING JOINTS SHALL BE MEGA LUG OR APPROVED EQUAL.

**PVC WATERLINE**

THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (AMERICAN WATER WORKS ASSOCIATION), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE AMERICAN SOCIETY OF TESTING AND MATERIALS HEREIN REFERRED TO FOR WATER SERVICE MAIN PIPE GATE VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES, UNLESS OTHERWISE NOTED, SHALL BE THE LATEST SPECIFICATIONS AND PIPE LAYING. PVC PIPE SHALL BE DR 18, PR 235 FOR 4 INCH THROUGH 12 INCH DIAMETER; AWWA C905, DR 25, PR 165 FOR 14 INCH DIAMETER AND LARGER.

ALL PIPE FITTINGS AND SPECIALS SHALL BE LAID IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND WITH AWWA C600 AND NFPA.

PIPE INTERIORS SHALL BE THOROUGHLY CLEANED OF DIRT AND FOREIGN MATTER BEFORE LAYING, BY BRUSHING, SWABBING, PRESSURE WASHING OR OTHER METHOD APPROVED BY THE CITY ENGINEER, AND MEANS SHALL BE PROVIDED TO PREVENT ENTRY OF DIRT OR FOREIGN MATERIAL DURING THE PROGRESS OF INSTALLATION.

ALL FITTINGS SHALL BE DUCTILE IRON IN CONFORMANCE WITH AWWA C110 OR AWWA C153. ALL FITTINGS SHALL BE RATED FOR 350 PSI WORKING PRESSURE, HAVE MECHANICAL JOINTS AND BE COATED AND CEMENT-MORTAR LINED IN ACCORDANCE WITH THE DIP SPECIFICATIONS.

**TRACER TAPE/WIRE**

THE CONTRACTOR SHALL FURNISH AND INSTALL DURING BACKFILL OPERATION FOR THE WATERLINE, 2 INCH IN WIDTH PRINTED POLYETHYLENE BLUE (WATER) TAPE. THIS IS TO BE PLACED THREE (3) FEET ABOVE THE CROWN OF THE PIPE.

NO SEPARATE OR EXTRA PAYMENT WILL BE MADE FOR THE FURNISHING AND INSTALLATION OF THE MARKER TAPE AND ALL COSTS SHALL BE INCLUDED FOR PAYMENT UNDER THE APPLICABLE BID ITEM(S) TO WHICH IT IS RELATED.

ALL DETECTABLE TRACING WIRE SHALL BE INSTALLED WITH PVC WATER MAINS. THE WIRE SHALL BE INSULATED NO.12 COPPER ELECTRICAL WIRE (THW). SPLICES IN TRACING WIRE SHALL BE MADE WITH SHRINK TYPE BUTT-END ELECTRICAL CONNECTORS. AFTER INSTALLATION, THE TRACER WIRE SHALL BE TESTED FOR CONTINUITY BETWEEN ALL ACCESS POINTS TO THE TRACER WIRE. SUCH AS FIRE HYDRANTS, VALVES BOXES, ETC. ANY DISCONTINUITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

THE TRACING WIRE SHALL BE CONNECTED TO EACH VALVE AND SHALL BE PLACED UNDER THE PIPE.

**PVC PIPE AND FITTINGS**

1. PIPE 12 INCH AND SMALLER: AWWA C900, 14 INCH AND LARGER: AWWA C905 AS MODIFIED HEREIN OR UNLESS OTHERWISE INDICATED ELSEWHERE IN CONTRACT DOCUMENTS, SUITABLE FOR POTABLE WATER USE.

A) CLASS AND THICKNESS: DR18, PR 235 FOR 12 INCH DIAMETER AND SMALLER, DR 25, PR 165 FOR 14 INCH DIAMETER AND LARGER; OR AS NOTED ON THE DRAWINGS WITH DIP EQUIVALENT OUTER DIAMETERS.

B) POTABLE WATER USE: NSF61

C) PIPE MARKINGS: AWWA C900 AND AWWA C905

D) JOINING PIPES: UTILIZE ELASTOMERIC GASKET PUSH ON JOINTS FOLLOWING AWWA C900 AND C905

E) APPROVED MANUFACTURERS:

- IPEX.
- UPONOR ETI.
- JM EAGLE OR APPROVED EQUAL

**2. FITTINGS:**

A) DUCTILE IRON SPECIFIED HEREIN.

B) PUSH-ON RUBBER GASKETED JOINTS: INJECTION-MOLDED MEETING AWWA C907, CLASS 150, OR FABRICATED MEETING AWWA C900, CLASS 200 OR AWWA C905, CLASS 235.

C) APPROVED MANUFACTURERS:

- HARRINGTON CORPORATION (HARCO), MULTIFITTINGS.
- FREEDOM PLASTICS OR APPROVED EQUAL

**3. SERVICE SADDLES:**

A) GENERAL:

1) USE FOR 2 INCH AND SMALLER CONNECTIONS.

2) MANUFACTURE SADDLES WITH CLAMPS FOR UNDERGROUND SERVICES:

- A. RATED FOR MINIMUM SERVICE OF 150 PSI
- B. PROVIDE FULL SUPPORT AROUND THE CIRCUMFERENCE OF PIPE.
- C. DO NOT DISTORT, SCRATCH, OR DAMAGE PIPE WHEN TIGHTENED.
- D. CONTAINS THICK TAPPING BOSS, WHICH HAS BEEN PRECISION-MACHINED WITH FULL-LENGTH THREADS FOR WATERTIGHT CONNECTION THAT RESISTS PULLOUT.
- E. THREADS: AWWA C800 WITH STANDARD CORPORATION STOP THREAD.
- F. BRASS OR BRONZE ALLOY MEETING ASTM B62 OR B584 AND AWWA C800
- G. CASTINGS:
  - (1) UNIFORM QUALITY, TRUE TO PATTERN, OF EVEN GRAIN, SOUND AND SMOOTH, AND WITHOUT COLD SHUTS, SWELLS, SCALES, BUSTERS, SAND HOLES, CRACKS OR OTHER DEFECTS.
  - (2) SURFACES: SMOOTH WITH NO BURNT-ON SAND.
- H. USE WATERTIGHT GASKETS OF BUNA-N RUBBER MEETING ASTM 02000 OR NITRITE AROUND TOP.

B) SADDLES FOR PVC AWWA C900 AND C905 PIPE:

- 1) USE TAPPING SADDLE MANUFACTURED SPECIFICALLY FOR AWWA C900 AND C905 PVC PIPE WITH STAINLESS STEEL WIDE BAND STRAPS, NUTS AND WASHERS
- 2) APPROVED MANUFACTURERS AND MODELS:
  - A. FORD METER BOX CO., INC. 202B5
  - B. SMITH BLAIR, INC., 325.
  - C. MUELLER COMPANY SERIES DR25
  - D. OR APPROVED EQUAL

ALL PVC PIPE USED THROUGHOUT THIS PROJECT SHALL CONFORM TO AWWA C900 DR18 (PR 235PSI) SPECIFICATION FOR 12 INCH DIAMETER AND SMALLER, WITH GASKETS MEETING ASTM F477, AND JOINTS IN COMPLIANCE WITH ASTM D3139.

CONTRACTOR TO INSTALL PVC PIPE IN STRICT ACCORDANCE WITH: AWWA C605 AND AWWA M 23 LATEST REVISIONS THEREOF. IF ANY OF THESE DOCUMENTS ARE FOUND TO CONFLICT, THE MOST RESTRICTIVE OF THE REQUIREMENTS SHALL BE MET. PARTICULAR ATTENTION SHALL BE PAID TO THE FOLLOWING ITEMS FROM THESE REFERENCES:

1. ANY SCRATCH OR GOUGE IN THE PIPE THAT IS MEASURED AS 10% OR MORE OF THE WALL SHALL BE CAUSE FOR REJECTION OF THAT PIPE. FOR 8 INCH DR 18 THIS EQUALS 0.0503 INCH, AND FOR 8 INCH DR 14 EQUAL 0.0646 INCH, 12-INCH DR14 EQUALS 0.0943 INCH ETC.
2. SPECIAL CARE SHALL BE TAKEN IN HANDLING OF PVC PIPE IN COLD WEATHER (40 OR LESS) OR WARM WEATHER (73.4 OR MORE)
3. NO PIPE SHOWING EVIDENCE OF SUN BURNING SHALL BE INSTALLED
4. ANY/ALL DEFLECTIONS SHALL BE MADE PER THE MANUFACTURE'S RECOMMENDATIONS AND/OR STANDARDS
5. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C605, INCLUDING A MINIMUM OF 4 INCHES OF BEDDING, BACKFILL AROUND THE PIPE AND TO A HEIGHT OF MINIMUM ONE FOOT OVER THE PIPE WITH 1/2-INCH AND LESS CRUSHED STONE OR PEA GRAVEL. THIS BACKFILL SHALL BE COMPACTED IN 8-INCH LIFTS.
6. ALL FITTINGS, VALVES, FIRE HYDRANTS AND OTHER IRON APPURTENANCES, AS WELL AS ANY NUTS AND BOLTS, SHALL BE PROTECTED FROM CORROSION WITH TWO LAYERS OF POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA C105 INSTALLED WITH ENOUGH TAPE SO AS TO HOLD THE POLYETHYLENE MATERIALS IN PLACE DURING THE BACKFILLING PROCESS.
7. THRUST BLOCKS SHALL BE INSTALLED ON ALL FITTINGS, VALVES, FIRE HYDRANTS, ETC. ASSOCIATED WITH THE USE OF PVC PIPE. NO RESTRAINT DEVICES SHALL BE ALLOWED ON PVC PIPE AS THESE MAY CUT INTO THE PIPE WALL RESULTING IN SCRATCHING OR GOUGING WHICH WILL REDUCE THE SURGE RESISTANCE OF THE PIPE.
8. CONTRACTOR SHALL FOLLOW ALL APPROPRIATE GUIDELINES WITH REGARD TO SAFELY TAPPING PRESSURIZED PVC PIPE. CONTRACTOR ASSUMES ALL LIABILITY RELATIVE TO SAFETY AND INJURY RESULTING FROM TAPPING PVC PIPE.
9. ALL FITTINGS, VALVES, FIRE HYDRANTS, ETC. SHALL BE SUPPORTED SUCH THAT THE WEIGHT OF SUCH APPURTENANCE WILL NOT BE TRANSFERRED TO THE ADJOINING PVC PIPE.

**MECHANICAL JOINT RESTRAINT**

RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND TO THE LENGTHS, IN FEET, IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS AND NFPA STANDARD.

ALL NUTS AND BOLTS SHALL BE 316 STAINLESS STEEL OR EQUAL.

THRUST BLOCKING AS A MEANS OF JOINT RESTRAINT WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE PROJECT ENGINEER.

PIPE SHALL BE ANCHORED AT DEAD ENDS, BENDS, TEES, VALVES AND OTHER FITTINGS REQUIRING RESTRAINT BY MEANS OF MECHANICAL JOINT RESTRAINT. MECHANICAL JOINT RESTRAINT SHALL BE INCORPORATED IN THE DESIGN OF THE FOLLOWER GLAND AND SHALL INCLUDE A RESTRAINING MECHANISM WHICH, WHEN ACTUATED, IMPARTS MULTIPLE WEDGING ACTION AGAINST THE PIPE, INCREASING ITS RESISTANCE AS THE PRESSURE INCREASES. FLEXIBILITY OF THE JOINT SHALL BE MAINTAINED AFTER BURIAL. GLANDS SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A 536-80. RESTRAINING DEVICES SHALL BE OF DUCTILE IRON HEAT TREATED TO A MINIMUM HARDNESS OF 370 BHN. DIMENSIONS OF THE GLAND SHALL BE SUCH THAT IT CAN BE USED WITH THE STANDARDIZED MECHANICAL JOINT BELL AND TEE-HEAD BOLTS CONFORMING TO ANSI/AWWA A21.11 AND ANSI/AWWA C153/A21.53 OF LATEST REVISION. TWIST-OFF NUTS SHALL BE USED TO INSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINT DEVICE SHALL HAVE A WORKING PRESSURE OF AT LEAST 250 PSI WITH A MINIMUM SAFETY FACTOR OF 2:1

**VALVES AND APPURTENANCES - GENERAL**

THIS ITEM COVERS GATE VALVES AND TAPPING SLEEVES AND VALVES WHICH MAY BE REQUIRED IN CONNECTION WITH THE INSTALLATION OF THE WATER MAINS. ALL VALVES SHALL BE PROVIDED WITH A VALVE BOX OR SHALL BE INSTALLED WITHIN A MANHOLE AS SUBSEQUENTLY SPECIFIED. VALVES INSTALLED WITH CLASS 52 DUCTILE PIPE SHALL BE WRAPPED AS PREVIOUSLY SPECIFIED.

**GATE VALVES**

GATE VALVES SHALL BE IRON BODY, BRONZE MOUNTED, DOUBLE DISC, PARALLEL SEAT TYPE MEETING THE REQUIREMENTS OF AWWA C509. OR IRON BODY RESILIENT SEAT TYPE MEETING THE REQUIREMENTS OF AWWA C509. VALVES SHALL BE DESIGNED FOR A WORKING WATER PRESSURE OF 200 PSI AND SHALL BE OF THE NON-RISING STEM TYPE WITH A STANDARD AWWA NUT. THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT ALL TESTS AND PROVISIONS OF THE APPLICABLE STANDARD HAVE BEEN MET. VALVES SHALL HAVE MECHANICAL JOINT ENDS. STEM SEALS SHALL CONSIST OF AT LEAST TWO "O" RINGS. VALVES SHALL OPEN BY TURNING TO THE RIGHT (CLOCKWISE). IF REQUIRED, OPERATORS SHALL BE PROVIDED WITH EXTENSION STEMS SUCH THAT THE OPERATING NUT TERMINATES APPROXIMATELY 4 FEET BELOW GRADE. EXTENSION STEMS SHALL BE CENTERED IN THE VALVE BOXES BY APPROVED STEM GUIDES. VALVES SHALL BE SET PLUMB, WITH THE VALVE BOX ACCURATELY CENTERED OVER THE VALVE. THE FOLLOWING MAKES AND MODELS OF VALVES WILL BE PERMITTED:

- AMERICAN FLOW CONTROL -- SERIES 500
- KENNEDY -- 4571-R
- MUELLER -- A2360

ALL FITTINGS SHALL BE DUCTILE IRON, SHALL CONFORM TO AWWA C110 AND C153 AND SHALL BE OF MECHANICAL JOINT OR PUSH-ON TYPE.

ONLY THE CITY OF OREGON MAY OPERATE VALVES.

**TAPPING VALVES**

TAPPING SLEEVES AND VALVES SHALL BE FURNISHED BY THE CONTRACTOR. THE TAPPING SLEEVE AND VALVE WILL BE INSTALLED BY THE CITY OF OREGON. ALL EXCAVATION AND BACKFILL WILL BE PERFORMED BY THE CONTRACTOR.

A. **INSTALLATION REQUIREMENTS** - THE EXISTING WATER MAIN INTO WHICH A PRESSURE CONNECTION IS TO BE MADE CANNOT BE SHUT DOWN OR TAKEN OUT OF SERVICE. THE INSTALLATION SHALL BE MADE BY PERSONNEL SKILLED AND EXPERIENCED IN THE MAKING OF PRESSURE TAPS. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE SELECTION AND ADJUSTMENT OF DRILLING EQUIPMENT AS WELL AS IN THE INSTALLATION, INSPECTION AND CUTTING PROCEDURES. PRIOR TO ORDERING ANY TAPPING SLEEVE ASSEMBLY, THE CONTRACTOR SHALL EXPOSE A SECTION OF THE EXISTING MAIN AND VERIFY THE CIRCUMFERENCE OF THE PIPE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, PROPER ASSEMBLY, ALIGNMENT AND FITTING OF THE TAPPING SLEEVE AND VALVE TO THE MAIN. IN THE EVENT OF ANY MISMATCH OF ANY PURCHASED MATERIALS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REFIT THEM IN THE FIELD OR TO MAKE THE NECESSARY ARRANGEMENTS WITH THE MANUFACTURER FOR FACTORY REFIT.

THE SEVERED SECTION OF WATER MAINS SHALL BE REMOVED THROUGH THE TAPPING VALVE AND GIVEN TO THE CITY OR THEIR ENGINEER AS PROOF OF SATISFACTORY EXECUTION OF THE OPERATION. THE ENGINEER, AT HIS OPTION, MAY RETAIN THE COUPON FOR SUCH ANALYSIS OR TESTS AS ARE NECESSARY TO EVALUATE THE CONDITION OF THE EXISTING WATER MAIN, WATER TREATMENT, DEPOSITS, ETC.

THE CITY OF OREGON, DIVISION OF WATER, HAS THE NECESSARY EQUIPMENT AND EXPERIENCED PERSONNEL TO MAKE PRESSURE TAPS AND WILL PERFORM SAME AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.

B. **TAPPING SLEEVES** - TAPPING SLEEVES SHALL BE MADE IN TWO HALVES FOR ASSEMBLY AROUND THE MAINS. GASKETS SHALL EXTEND THE ENTIRE LENGTH OF THE SLEEVES TO FORM WATERTIGHT JOINTS WHEN THE SIDE BOLTS ARE TIGHTENED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. BRANCH FLANGES SHALL HAVE FEMALE FACES TO ACCOMMODATE MALE FACES OF TAPPING VALVES.

C. **TAPPING VALVES** - TAPPING VALVES SHALL BE GATE VALVES AS PREVIOUSLY SPECIFIED, EXCEPT AS MODIFIED BY THE FOLLOWING SUPPLEMENTARY REQUIREMENTS:

TAPPING VALVES SHALL BE OF THE CAST IRON BODY, RESILIENT SEAT TYPE, MEETING THE REQUIREMENTS OF AWWA C509-LATEST REVISION.

VALVE OUTLETS SHALL BE MECHANICAL JOINT IN COMPLIANCE WITH AWWA C111. THE CYLINDRICAL SECTION OF THE INTERIOR ANNUAL RECESS OF THE BELL SHALL BE MACHINED WITH THE BORE THROUGH THE SEAT RINGS TO PROVIDE ALIGNMENT FOR THE DRILLING MACHINE.

**VALVE LOCATION AND SETTING**

MAIN LINE VALVES SHALL BE INSTALLED AT INTERSECTIONS SO AS TO BE ABLE TO ISOLATE THE LINE AND PREVENT BACK FEET AND AT INTERVALS AS SHOWN ON THE PLANS. A GATE (WATCH) VALVE SHALL BE INSTALLED WITH EACH FIRE HYDRANT AS SUBSEQUENTLY SPECIFIED.

MAIN LINE VALVES INSTALLED IN EXISTING OR PROPOSED PAVED AREAS OR AS OTHERWISE REQUIRED BY THE CITY SHALL BE INSTALLED IN MANHOLES. VALVES INSTALLED AT ALL OTHER LOCATIONS SHALL BE WITH A VALVE BOX AS SUBSEQUENTLY SPECIFIED. VALVES SHALL SET PLUMB WITH THE MANHOLE ACCURATELY CENTERED OVER THE VALVE AND WITH THE TOP OF THE MANHOLE COVER FLUSH WITH THE SURFACE OF THE GROUND OR PAVEMENT.

WATCH VALVES INSTALLED WITH FIRE HYDRANTS AND ALL OTHER MAIN LINE VALVES SHALL BE INSTALLED WITH VALVE BOXES. VALVES SHALL BE SET PLUMB WITH VALVE BOX CENTERED OVER THE VALVE AND WITH THE TOP OF THE BOX FLUSH WITH THE SURFACE OF THE GROUND OR PAVEMENT.

**VALVE BOXES**

VALVE BOXES SHALL BE CONSTRUCTED OF A GOOD GRADE OF CAST IRON; SHALL BE COATED; SHALL BE OF THE THREE PIECE SCREW TYPE; SHALL HAVE A 5 1/4 INCH SHAFT; AND SHALL BE PROVIDED WITH A HEAVY NEED FITTING COVER HAVING THE WORD "WATER" CAST ON THE TOP. BASES SHALL COVER THE ENTIRE BONNET SECTION OF THE VALVE. BOXES SHALL CORRECTLY SET ON VALVE BODY AND SHALL EXTEND TO THE GROUND ELEVATION WITH SUFFICIENT LENGTH FOR EACH SECTION TO BE PROPERLY ENGAGED.

**VALVE MANHOLES**

ALL MAIN LINE VALVES SHALL BE ENCLOSED IN STANDARD VALVE MANHOLES AS SHOWN IN ATTACHED DETAILS. MANHOLES SHALL BE CONSTRUCTED OF EITHER APPROVED SOLID CONCRETE (CIRCULAR) BLOCK OR APPROVED PRECAST MANHOLE SECTIONS MEETING ASTM C-478. MANHOLE WALLS SHALL REST ON A CLASS 1 REINFORCED CONCRETE OR BERM STONE (ODOT ITEM 411) FOUNDATION AS SHOWN. IF BLOCK IS USED, A 1/2" COAT OF CEMENT MORTAR, INSIDE AND OUT, MUST BE PROVIDED. WHERE PIPE PASSES THROUGH THE WALLS PROVIDE A GASKETED FLEXIBLE WATERTIGHT CONNECTION (KOR-N-SEAL, OR EQUAL), OR 1/2" JUTE ROPING OR NEOPRENE GASKET MATERIAL.

WHERE SPECIFIED, MANHOLE STEPS MEETING ASTM C-478 SHALL BE PROVIDED AND SHALL BE OF ALUMINUM OR REINFORCED POLYPROPYLENE.

FOR PRECAST SECTIONS, TOPS SHALL BE OF THE ECCENTRIC OR FLAT SLAB TYPE AND SHALL BE CONSTRUCTED OF CLASS 1 REINFORCED CONCRETE. IF PRECAST SECTIONS ARE USED, A MINIMUM OF 6" OF ADJUSTING RINGS MUST BE PROVIDED.

VALVES MUST BE POSITIONED INSIDE MANHOLE SO AS TO ALLOW UNOBSTRUCTED ACCESS TO VALVE OPERATING NUT WITH VALVE WRENCH.

Groll Area Waterline\Revised WL DETAILS & GENERAL NOTES.DWG

SCALE AS SHOWN

DRAWN A.L.B. CHECKED DATE 2017

WATERLINE NOTES & DETAILS

CITY OF OREGON

**VALVE MANHOLE CASTINGS**

VALVE MANHOLE FRAMES AND COVERS SHALL BE 22 INCH NEENAH R-1771, OR APPROVED EQUAL, ASTM-A48 WITH INTERCHANGEABLE PIECES AND MACHINED HORIZONTAL BEARING SURFACES.

IF CASTINGS ARE DELIVERED TO THE JOB UNPAINTED, THEY SHALL BE GIVEN ONE COAT OF ASPHALT VARNISH OR COAL-TAR PITCH PAINT BY THE CONTRACTOR.

**MANHOLE/HYDRANT GRADES**

CONTRACTOR SHALL ADJUST MANHOLE RIM GRADES AS SHOWN ON DRAWINGS TO ACTUAL SURROUNDING GRADE OR AS DIRECTED BY THE ENGINEER. NO ACTUAL PAYMENT IS ALLOWED FOR THESE ADJUSTMENTS.

**FIRE HYDRANTS AND APPURTENANCES - GENERAL**

THIS ITEM COVERS FIRE HYDRANTS, WATCH VALVES AND VALVE BOXES, HYDRANT TEES, ANCHORING FITTINGS AND ANCHORING PIPE WHICH MAY BE REQUIRED IN CONNECTION WITH THE INSTALLATION OF THE WATER MAINS. HYDRANTS IN NEW SUBDIVISIONS SHALL BE 4-FOOT UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE DIRECTOR OF PUBLIC SERVICE. FIRE HYDRANTS AND APPURTENANCES WHEN INSTALLED WITH CLASS 52 DUCTILE PIPE SHALL BE WRAPPED AS PREVIOUSLY SPECIFIED.

**FIRE HYDRANTS**

FIRE HYDRANTS SHALL BE OF THE COMPRESSION TYPE, OPENING AGAINST AND CLOSING WITH THE WATER PRESSURE IN THE MAIN, HAVING A 5-1/4 INCH VALVE OPENING, TWO 2-1/2 INCH HOSE NOZZLES (2-63/64 INCHES O.D., 8 THREADS PER INCH). HYDRANTS SHALL CONFORM TO AWWA C502, LATEST REVISION. THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT ALL TESTS AND PROVISIONS OF AWWA C502 HAVE BEEN MET.

THE FOLLOWING MAKES AND MODELS OF HYDRANTS WILL BE PERMITTED:

AMERICAN-DARLING	B-84-B
KENNEDY	K-81A
MUELLER	A-423, SUPER CENTURION 200

THE HYDRANT BARREL SHALL HAVE AN INSIDE DIAMETER OF NOT LESS THAN 6 INCHES AND SHALL BE IN TWO PARTS FASTENED TOGETHER WITH A FRANGIBLE SECTION LOCATED JUST ABOVE GROUND LINE. THE HYDRANT STEM SHALL HAVE A BREAKABLE COUPLING IN THE SAME PLANE AS THE FRANGIBLE SECTION. STEM SHALL TERMINATE AND 1.50 INCHES POINT TO FLAT. SEALS SHALL BE RUBBER O-RINGS. HYDRANTS SHALL BE SUITABLE FOR SETTING IN TRENCHES OF THE DEPTHS SHOWN OR AS REQUIRED. THE HYDRANTS SHALL BE DESIGNED SO THAT WHEN PROPERLY OPERATED WATER HAMMER WILL BE PREVENTED. HYDRANTS SHALL BE FURNISHED WITH A POSITIVE-OPERATING DRAIN VALVE AND SHALL BE FURNISHED WITH A 6 INCH MECHANICAL JOINT BASE. HYDRANTS SHALL OPEN BY TURNING TO THE LEFT (COUNTER-CLOCKWISE).

THE CONTRACTOR SHALL VERIFY THAT THE HYDRANT FURNISHED AND THAT THE HYDRANT PUMPER NOZZLE WITH STORZ FITTING, OPERATING NUT, OUTLET NOZZLE CAP NUTS AND HOSE THREADS CONFORM TO THOSE IN THE SYSTEM BEFORE NEW HYDRANTS ARE SHIPPED.

EACH HYDRANT EXTERIOR, IN ADDITION TO FINISHING AS REQUIRED BY AWWA C502, SHALL BE GIVEN ONE FIELD COAT OF ASPHALT VARNISH AFTER ERECTION AND BEFORE BACKFILLING FROM GROUND LEVEL DOWN. THAT PART OF THE HYDRANT EXTERIOR ABOVE GROUND LEVEL SHALL BE FIELD PAINTED WITH TWO COATS OF PAINT AS REQUIRED BY THE OWNER AFTER BACKFILLING IS COMPLETE.

BONNET, 3 CAPS AND CHAINS - BLACK ENAMEL, GLIDDEN 4551, ICI DEVOE #43089990, OR CITY APPROVED EQUAL.

BARREL - MEDIUM YELLOW ENAMEL, GLIDDEN 4560, ICI DEVOE #43088600, OR CITY APPROVED EQUAL.

**PROTECTION AND PAINTING**

ALL IRON PARTS OF VALVES AND ACCESSORIES SHALL BE PAINTED BEFORE LEAVING THE SHOP WITH TWO COATS OF ACCEPTABLE HIGH GRADE BITUMINOUS PAINT.

THE VALVES SHALL BE PROTECTED AT ALL TIMES FROM RUST OR DAMAGES, BOTH BEFORE AND AFTER INSTALLATION, UNTIL THE COMPLETION OF THE CONTRACT.

**ANCHORS AND SUPPORTS**

AS SPECIFIED UNDER MECHANICAL JOINT RESTRAINT, THE USE OF THRUST BLOCK SHALL BE AUTHORIZED BY THE PROJECT ENGINEER. MECHANICAL JOINT RESTRAINT, REINFORCED CONCRETE ANCHORS, AND SUPPORTS (THRUST BLOCK) SHALL BE PROVIDED AT ALL FITTINGS, VALVES OR CHANGES IN DIRECTION OF THE PIPE. THRUST BLOCK SHALL BE CONSTRUCTED OF CLASS I CONCRETE, AS SHOWN ON DETAIL SHEET, AND SHALL BE PLACED AGAINST FIRM UNDISTURBED SOIL. ALL PLUG OR CAPS SHALL BE SECURELY STRAPPED OR BLOCKED.

**INSTALLATION**

ALL PIPE AND APPURTENANCES SHALL BE INSTALLED TRUE TO LINE, GRADE, AND LOCATION WITH JOINTS CENTERED; SPIGOTS HOME; PROPER SUPPORT AND BLOCKING PROVIDED; AND ALL VALVE STEMS PLUMB. CARE SHALL BE USED TO LAY THE PIPE SO THAT IT IS SUPPORTED BY THE FULL LENGTH OF THE BARREL. THE PIPE SHALL HAVE APPROXIMATELY 4" OF COVER, WHERE CONFLICTS OCCUR WITH OTHER UTILITIES A MINIMUM OF 18-INCH VERTICAL SEPARATION IS REQUIRED. WHERE SPECIAL CONDITIONS WARRANT, THE DEPTH OF COVER MAY BE CHANGED. ALL TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED IMMEDIATELY AFTER PIPE IS LAID THEREIN. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONES, ROCK OR PIECES OF MASONRY, FROZEN EARTH, DEBRIS OF EARTH WITH AN EXCEPTIONALLY HIGH VOID CONTENT. TRENCHES OUTSIDE THE LIMITS OF 5 FEET FROM THE EDGE OF PAVEMENT SHALL BE BACKFILLED WITH THOROUGHLY TAMPED GRANULAR MATERIAL A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE PIPE. THE REMAINDER OF THE TRENCH MAY BE FILLED WITH EXCAVATED MATERIAL, INsofar AS IT IS OF SUITABLE CHARACTER.

**WATERLINE LENGTHS**

ALL LENGTHS SHOWN ON PLAN VIEWS ARE MEASURED FROM CENTERLINE OF VALVE OR FITTINGS IF APPLICABLE.

WHENEVER IT IS NECESSARY TO CUT THE PIPE AT FITTINGS, VALVES, SPECIALS, OR ELSEWHERE, THE REMAINING PORTIONS MAY BE USED WHERE POSSIBLE TO MINIMIZE THE NUMBER OF SCRAP PIECES WHEN THE PROJECT IS COMPLETE; HOWEVER, SCRAP PIECES LESS THAN 5- FEET IN LENGTH SHALL NOT BE USED.

**PIPE LAYING**

PIPE SECTIONS SHALL BE STRUNG ALONG THE ROUTE OF THE MAINS SO AS TO INTERFERE LEAST WITH PEDESTRIAN AND VEHICULAR TRAFFIC AND TO PROTECT THE PIPE AS FULLY AS POSSIBLE. CARE SHALL BE TAKEN AT ALL TIMES IN HANDLING THE PIPE SO AS NOT TO INJURE IT IN ANY WAY AND AT NO TIME SHALL OTHER PIPES OR MATERIAL BE PLACED IN THE PIPES.

RUBBER Tired EQUIPMENT SHALL BE USED ON ALL PAVED SURFACES DURING PIPE LAYING AND ALL RELATED OPERATIONS; HEAVY EQUIPMENT SHALL NOT BE DRIVEN OVER STREETS, BUT SHALL BE MOVED BY TRAILER.

THE MAINS SHALL BE LAID IN THE LOCATIONS AND AT THE GRADES SHOWN ON THE PLANS, EXCEPT AS SPECIFICALLY PERMITTED OR ORDERED OTHERWISE BY THE CITY OR THEIR ENGINEER IN ORDER TO AVOID EXISTING OR PROPOSED UTILITY LINES OR ANY OTHER OBSTRUCTIONS ENCOUNTERED IN THE PROGRESS OF THE WORK; TO SECURE A MORE READILY ACCESSIBLE POSITION FOR TRENCHING; OR TO FACILITATE THE LOCATION OF VARIOUS APPURTENANCES OF THE MAINS.

EXISTING UTILITIES OR OTHER OBSTRUCTIONS ALONG THE ROUTE OF THE MAINS SHALL BE LOCATED AND THE ELEVATION DETERMINED AT LEAST 200 FEET IN ADVANCE OF PIPE LAYING.

ALL UTILITIES, WHEN ENCOUNTERED, SHALL BE ADEQUATELY SUPPORTED, SHORED UP OR OTHERWISE PROTECTED WHENEVER EXPOSED IN THE EXCAVATION TO THE SATISFACTION OF THE CITY OR THEIR ENGINEER. TIMBER SUPPORTS SHALL BE A MINIMUM OF 6-INCHES SQUARE. SUPPORT OF UTILITIES PERPENDICULAR TO THE EXCAVATION SHALL BE IN ACCORDANCE WITH DETAIL.

PLANS SHALL INDICATE THE LOCATION OF EXISTING UTILITIES, IN ACCORDANCE WITH THE BEST INFORMATION PRESENTLY AVAILABLE, BUT NEITHER THE CITY OR THEIR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE ACCURACY OF THEIR LOCATION OR THAT ALL UTILITIES ARE SHOWN.

WHEN ABRUPT CHANGES IN THE GRADE OF THE MAIN ARE NECESSARY TO AVOID EXISTING UTILITIES OR OTHER OBSTRUCTIONS, SUITABLE FITTINGS, USUALLY 1/8 BENDS, SHALL BE USED, UNLESS OTHERWISE SPECIFIED, SO AS TO SECURE AN EASY FLOW OF LIQUID AND TO PROVIDE SUFFICIENT COVER BELOW SAME. PIPE SHALL BE SO LOCATED WITH RESPECT TO OTHER UTILITIES AS TO ALLOW FOR TAPS TO BE INSERTED. A MINIMUM CLEARANCE OF ONE FOOT IN ALL DIRECTIONS SHALL BE MAINTAINED.

ALL PIPES SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE BEFORE BEING LOWERED INTO THE TRENCH; SHALL BE KEPT CLEAN DURING AND AFTER LAYING; AND THE END OF THE PIPE SHALL BE PLUGGED TO EXCLUDE WATER, ANIMALS OR OTHER MATTER WHEN PIPE LAYING IS STOPPED FOR ANY REASON.

**REMOVAL OF EXCAVATED MATERIAL AND STORAGE OF MATERIALS**

ALL EXCESS EXCAVATED MATERIAL WHICH HAS BEEN STOCKPILED AT THE WORK SITE, AND WHICH WILL NOT BE USED FOR BACKFILL OR OTHER FILL PURPOSES, MUST BE REMOVED FROM THE PROJECT AREA WITHIN FORTY-EIGHT (48) HOURS. IN ALL CASES, STOCK PILES OF ALL EXCAVATED MATERIAL AND ALL CONSTRUCTION MATERIALS SHALL BE OF LIMITED SIZE AND SHALL BE NEATLY MAINTAINED IN SUCH A MANNER THAT THEY WILL NOT BLOCK EXISTING DRAINAGE OR BE HAZARDOUS TO PEDESTRIAN OR VEHICULAR TRAFFIC IN ANY WAY. THE LIMITATION RELATIVE TO THE STOCKPIILING OF ALL EXCAVATED MATERIAL AS REQUIRED ABOVE, OR FAILS TO SATISFACTORILY MODIFY HIS OPERATIONS RELATIVE TO THE STOCKPIILING OF EXCAVATED OR CONSTRUCTION MATERIALS UPON ORDER OF THE CITY OR THEIR ENGINEER, ALL WORK EXCEPT CLEAN-UP OPERATIONS WILL BE STOPPED, AND REMAIN STOPPED UNTIL THE ORDER OF THE CITY OR THEIR ENGINEER HAS BEEN COMPLIED WITH.

THE REMOVAL AND DISPOSAL OF SURPLUS EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, BUT THE LOCATION OF THE DISPOSAL AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY OR THEIR ENGINEER. HOWEVER, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY IN THE DISPOSAL OF WASTE MATERIALS EVEN THOUGH THE LOCATION OF THE SITE FOR SUCH MATERIAL MAY HAVE BEEN APPROVED BY THE CITY OR THEIR ENGINEER.

**PROGRESS**

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE BACKFILLING OPERATIONS AND GENERAL CLEAN-UP WITHIN A REASONABLE DISTANCE OF TRENCHING AND PIPE LAYING OPERATIONS AND OTHER EXCAVATIONS. THE SPECIFIC LIMITATIONS OF THIS PARAGRAPH SHALL BE AT THE DISCRETION OF THE CITY OR THEIR ENGINEER, BUT THE GENERAL INTENT IS TO REQUIRE THE CONTRACTOR TO MINIMIZE THE INCONVENIENCE TO NEARBY RESIDENTS OR BUSINESSES WHERE THE MAINS ARE CONSTRUCTED IN STREETS AND ALLEYS OR IN OTHER LOCATIONS WHERE THE CONSTRUCTION PRODUCES AN INCONVENIENCE TO NEARBY RESIDENCES OR BUSINESSES. THE CITY OR THEIR ENGINEER SHALL BE PERMITTED TO REQUIRE THE CONTRACTOR TO CEASE TRENCHING AND PIPE LAYING OPERATIONS AT SUCH TIME AS HE FEELS THAT BACKFILLING AND CLEAN-UP HAVE NOT PROGRESSED SATISFACTORILY.

**TRENCHES**

TRENCHES FALLING IN THAT AREA BELOW A LINE DRAWN AT 1:2 (1 HORIZONTAL AND 2 VERTICAL) FROM THE EDGE OF PAVEMENT OR BACK OF CURB AND ABOVE THE HORIZONTAL PLANE OF THE PIPE EMBEDMENT MATERIAL SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL. TRENCHES FALLING UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL MEETING REQUIREMENTS OF ODOT ITEM 304 OF THE SUBGRADE. THE CITY OF OREGON RESERVES THE RIGHT TO ORDER COMPACTION TESTS, IF IT DEEMS THEM NECESSARY. PIPE OUTSIDE THE LIMITS NOTED ABOVE SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL.

EXCEPT WHERE OTHERWISE SPECIFICALLY REQUIRED OR PERMITTED BY THE CITY OR THEIR ENGINEER, THE MAINS SHALL BE LAID IN OPEN TRENCH EXCAVATED TO A DEPTH SUFFICIENT TO PROVIDE NOT LESS THAN 4- FEET OF VERTICAL COVER, UNLESS OTHERWISE NOTED. HOWEVER, PIPES SHALL BE INSTALLED AT A GREATER DEPTH WHEN SHOWN ON THE PLANS; WHEN NECESSARY TO PASS UNDER OTHER UTILITIES OR OBSTRUCTIONS; OR WHERE NECESSARY TO PREVENT HIGH POINTS IN THE MAIN. IN ADDITION TO THE MINIMUM VERTICAL COVER, WHERE ANY PIPES PARALLEL ROADSIDE DITCHES OR STREAMS, A LATERAL COVER SHALL BE PROVIDED AT LEAST EQUAL TO THE SPECIFIED VERTICAL COVER.

SUFFICIENT SPACE SHALL BE PROVIDED IN THE TRENCH FOR PROPERLY MAKING THE JOINTS WITHOUT RAISING THE LENGTH OF PIPE ABOVE THE SOLID BOTTOM ON THE TRENCH. CARE SHALL BE TAKEN TO DETECT AND REMOVE ANY STONE, BOULDER OR OTHER DEBRIS THAT MIGHT BE ENCOUNTERED IN THE BOTTOM OF THE TRENCH WHICH WOULD DAMAGE THE PIPE OR BE DETRIMENTAL TO THE PROPER BEDDING OF THE PIPE.

WHERE THE PIPE LIENS ENTER THE PAVED LIMITS OF A STREET, ALLEY, DRIVEWAY OR PARKING AREA, THE PAVEMENT SHALL BE NEARLY CUT AND THE MAIN INSTALLED IN OPEN TRENCH, IF PERMITTED BY THE CITY, OTHERWISE IT SHALL BE BORED. PAVEMENT CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS SUBSEQUENTLY SPECIFIED.

WHERE CATCH BASINS ARE IN THE LINE OF CONSTRUCTION, THE CONTRACTOR SHALL TUNNEL UNDER THE BASINS TO INSTALL THE PIPE, UNLESS OTHERWISE INSTRUCTED.

ON PRIVATE LAWNS, OUTSIDE OF RIGHT-OF-WAY, THE SOD OVER THE TRENCH SHALL FIRST BE REMOVED AND PLACED IN A PROTECTED AREA ADJACENT TO THE TRENCH.

**BACKFILLING**

ALL TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED IMMEDIATELY AFTER PIPE IS LAID THEREIN. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONES, ROCK OR PIECES OF MASONRY, FROZEN EARTH, DEBRIS OR EARTH WITH AN EXCEPTIONALLY HIGH VOID CONTENT. TRENCHES OUTSIDE THE LIMITS OF 5 FEET FROM THE EDGE OF PAVEMENT, PAVED OR STONE BERM OR BACK OF CURB SHALL BE BACKFILLED WITH THOROUGHLY TAMPED GRANULAR MATERIAL A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE PIPE. THE REMAINDER OF THE TRENCH MAY BE FILLED WITH EXCAVATED MATERIAL, INsofar AS IT IS OF SUITABLE CHARACTER. TRENCHES WITHIN 5 FEET OF BACK OF THE CURB, EDGE OF PAVEMENT OR EDGE OF PAVED OR STONE BERM SHALL BE BACKFILLED WITH THOROUGHLY TAMPED GRANULAR MATERIAL TO THE PAVEMENT SUBGRADE. GRANULAR

BACKFILL SHALL CONFORM TO THE GRADATION REQUIREMENTS OF THE CURRENT SPECIFICATIONS FOR ITEM 703.11, TYPE 1, (304 ONLY) OF THE 2013 CONSTRUCTION AND MATERIAL SPECIFICATIONS, STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, (MAX. DRY DENSITY EXCEEDING 105LBS. PER CUBIC FEET AND COMPACTION TO 100% OF THE STANDARD PROCTOR TEST). GRANULAR MATERIAL MAY BE COMPACTED WITH WATER IF SATISFACTORY DRAINAGE IS PROVIDED FOR THE EXCESS WATER. WHEN COMPACTING WITH WATER, THE GRANULAR MATERIAL MAY BE PLACED IN LAYERS NOT TO EXCEED 8 INCHES LOOSE DEPTH AND EACH LAYER THOROUGHLY SATURATED WITH WATER BY FLOODING OR JETTING. PRIOR TO THE PLACEMENT OF SOIL OVER THE GRANULAR MATERIAL, THE EXCESS WATER SHOULD BE DRAINED.

**PRESSURE AND LEAKAGE TESTING**

THE CONTRACTOR SHALL MAKE PRESSURE AND LEAKAGE TESTS OF ALL PIPE LINES ACCORDANCE WITH AWWA C600 LATEST REVISION UNLESS OTHERWISE DIRECTED BY THE CITY OF OREGON.

PRESSURE TESTS SHALL BE MADE IN ALL PIPE LINES OR VALVED SECTIONS THEREOF, AS DIRECTED. THE CONTRACTOR SHALL FURNISH THE PUMP, PIPE CONNECTIONS, TAPS, GAUGES AND ALL OTHER APPARATUS FOR MAKING THE TEST. BEFORE TESTING OF THE MAIN, THE CONTRACTOR SHALL FLUSH THE MAIN UNDER THE CITY OF OREGON DIRECTION TO EXPEL ANY WATER, DIRT, CHLORINE, ETC.

THE COST OF FURNISHING ALL MATERIAL, LABOR, EQUIPMENT AND THE TOTAL VOLUME OF WATER FOR TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEM.

**DISINFECTION**

THE CONTRACTOR SHALL CHLORINATE ALL PIPE LINES, AND THIS SHALL BE DONE PRIOR TO PRESSURE TESTING UNLESS OTHERWISE DIRECTED BY THE CITY. DISINFECTION SHALL MEET OR EXCEED AWWA C651.

THE COST TO COMPLETE SUCH WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEM.

**OHIO E.P.A. REQUIREMENTS**

THE OHIO ENVIRONMENTAL PROTECTION AGENCY REQUIRES A CONFORMANCE TO THE 2012 EDITION OF "TEN STATES STANDARDS." THIS STANDARD SHALL BE EQUALLED OR EXCEEDED FOR WATERLINES. SPECIAL ATTENTION SHALL BE GIVEN TO THE FOLLOWING SECTIONS OF PART 8.

- 8.1.1 MATERIALS CONFORM TO AWWA STANDARDS
- 8.2.2 MINIMUM 6" DIAMETER FIRE PROTECTION
- 8.4.4 HYDRANT DRAINAGE
- 8.7.3 COVER
- 8.7.6 PRESSURE TESTING AWWA C-600\*
- 8.7.7 DISINFECTION AWWA C-651\*
- 8.8.2 10' HORIZONTAL SEPARATION WATER MAIN/SEWER
- 8.8.3 18" VERTICAL SEPARATION WATER MAIN/SEWER
- 8.8.6 NO ENTRY AND/OR CONTACT WITH SEWER MANHOLE

\*NOTE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THIS TEST PROPERLY AND THEIR RESPONSIBILITY FOR ADEQUATE SUPERVISION AND APPROVAL RESTS WITH THE APPROPRIATE GOVERNMENTAL AGENCY. ANY DEVIATION FROM THE ABOVE WILL NOT BE PERMITTED UNLESS SPECIFICALLY INCLUDED IN THE GENERAL NOTES OR OTHERWISE SHOWN ON THESE PLANS.

IN CASES WHERE ONE AND/OR MORE OF THE ABOVE MENTIONED OHIO E.P.A. STANDARDS FALL SHORT OF THE CITY OF OREGON, WATER DEPARTMENT, THE LATTER SHALL GOVERN.

ONLY THE CITY OF OREGON MAY OPERATE VALVES.

**FLUSHING EXISTING WATER MAINS**

WHENEVER A CONTRACTOR IS CONNECTING ONTO AN EXISTING WATER MAIN, THE EXISTING WATER MAIN WILL BE FLUSHED THROUGH THE BLOW-OFF ON THE END OF THE MAIN, BEFORE THE NEW PIPE IS CONNECTED TO THE EXISTING WATERLINE.

**POLYETHYLENE TUBE**

THE WATER LINE SHALL BE FIELD WRAPPED WITH A MINIMUM 8 MIL THICK POLYETHYLENE TUBE MEETING THE REQUIREMENTS OF AWWA C105, WITH THE INSTALLATION IN ACCORDANCE WITH METHOD A AND THE RECOMMENDATIONS OF THE MANUFACTURER. ALL OVERLAPS AND SEAMS SHALL BE COMPLETELY TAPED. ALL RIPS, PUNCTURES AND OTHER DAMAGE TO THE POLYETHYLENE SHALL BE COMPLETELY REPAIRED. TAPE SHALL BE 2 INCH WIDE PLASTIC BACKED ADHESIVE TAPE WHICH WILL BOND SECURELY TO BOTH METAL SURFACES AND THE POLYETHYLENE FILM. FITTINGS THAT REQUIRE CONCRETE THRUST BLOCKS SHALL BE COMPLETELY WRAPPED PRIOR TO PLACING BLOCKING. ALL VALVE, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL ALSO BE PROPERLY WRAPPED TO EITHER THE GROUND LINE OR THE UNDER SIDE OF THE OPERATING NUT OR VALVE. COST OF THE ABOVE SPECIFIED SHALL BE INCLUDED IN THE PRICE BID FOR THE WATER LINE ITEM.

**REMOVAL AND DISPOSAL OF EXISTING WATER MAIN AND ALL APPURTENANCES**

CONTRACTOR TO REMOVE EXISTING HYDRANTS AND MAIN LINE VALVES AND DELIVER THEM TO THE CITY OF OREGON, WATER DEPARTMENT. EXISTING FIRE HYDRANT LINES THAT CROSS UNDER ROADWAYS MAY BE LEFT IN PLACE BUT MUST BE FILLED WITH GROUT.

**TAPPING SADDLE AND CORPORATION STOP**

TAPPING SADDLES SHALL BE STAINLESS STEEL. THEY SHALL BE BAND-TYPE OR DOUBLE STRAP TYPE WITH AWWA TAPERED THREAD INLET.

CORPORATION STOPS FOR USE WITH SADDLES SHALL BE BRONZE ALLOY WITH AWWA TAPERED THREAD, AND OUTLET THREAD COMPATIBLE WITH CONNECTING PIPE, WITHOUT SPECIAL ADAPTERS. CORPORATION STOPS FOR DIRECT TAPPING SHALL BE BRONZE ALLOY WITH AWWA TAPERED INLET THREAD, AND WITH OUTLET THREAD COMPATIBLE WITH CONNECTING PIPE, WITHOUT SPECIAL ADAPTERS.

**COPPER/PLASTIC SERVICE AND FITTINGS**

COPPER SERVICE BRANCHES SHALL CONFORM TO ASTM B 88 TYPE K, AND BE ASSEMBLED USING COMPRESSION FITTINGS CONFORMING TO AWWA C-800. MINIMUM WORKING PRESSURE FOR THE BRANCHES SHALL BE 150 POUNDS PER SQUARE INCH. THE MATERIAL SHALL BE EITHER COIL TYPE (TEMPER 060 ANNEALED) OR DRAWN TYPE (TEMPER H).

PLASTIC SERVICE BRANCHES SHALL CONFORM TO SDR 9.

**SERVICE STOP WITH BOX**

SERVICE STOPS SHALL BE BRONZE WITH COUPLING THREADS CONFORMING TO AWWA C-800. THE STOP SHALL BE SO DESIGNATED THAT WATER PRESSURE FROM THE INLET SIDE OF THE BODY SHALL PROVIDE ADDITIONAL SEALING ACTION. SERVICE STOPS SHALL OPEN COUNTER-CLOCKWISE.

BOXES SHALL BE CAST IRON SCREW TYPE.

CURB BOXES SHALL BE:

- ARCH-4" DIAMETER BY 7" HEIGHT INSIDE
- SHAFT DIAMETER = 2 1/2"
- FOR CURB STOPS THRU 2" SCREW STYLE
- CAST IRON "WATER" COVER AND RING WITH BRASS PENTAGON BOLT 47" - 65" RANGE.

**UTILITY POLE HOLDING**

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE HOLDING AND/OR MOVING OF ANY UTILITY POLE(S) WITH THE OWNER(S) OF SAID POLE(S). ALL COSTS INCURRED FOR HOLDING AND/OR MOVING POLE(S) SHALL BE INCLUDED IN THE BID PRICE FOR PIPE INSTALLED. IT WILL BE THE ULTIMATE RESPONSIBILITY OF THE CONTRACTOR AND OWNER OF THE UTILITY POLE(S) TO MAKE THE DECISION OF HOLDING OR MOVING POLES.

**RECONNECTION OF SERVICES**

ALL EXISTING SERVICES SHALL BE KEPT IN OPERATION UNTIL TRANSITION TO NEW SERVICES. UPON ACCEPTANCE OF INSTALLED WATER MAINS, SERVICES SHALL BE DISCONNECTED FROM EXISTING WATER MAINS AND RECONNECTED TO PROPOSED WATER MAINS AT SIMILAR LOCATIONS.

THIS WORK SHALL INCLUDE A NEW TAPPING SADDLE AND CORPORATION STOP, A LENGTH OF 1 INCH COPPER SERVICE (OR LARGER TO MATCH EXISTING), A NEW SERVICE STOP WITH BOX AND A CONNECTION FITTING TO THE EXISTING SERVICE. SHALL BE JACKED OR DRILLED. NO OPEN CUTTING OF PAVEMENT WILL BE ALLOWED. REMOVAL OF EXISTING SERVICE STOP WITH BOX SHALL BE INCLUDED.

THE PROPERTY OWNERS SHALL BE NOTIFIED BY FLIER DELIVERED 24 HOURS IN ADVANCE OF THEIR WATER DISCONNECTION. RECONNECTION WORK SHALL BE COMPLETED IN ONE WORKING DAY, WITHOUT OVERNIGHT DISCONNECTION. PAYMENT FOR THIS WORK SHALL BE MADE FOR PER LINEAR FOOT UNDER THE CONTRACT UNDER PAY REF. NO. 10 OR NO. 11

**ABANDONMENT OF WATERLINE**

- 1.) ALL FIRE HYDRANTS AND PIPING SHALL BE REMOVED UP TO AND INCLUDING THE WATCH VALVE AND VALVE BOX.
- 2.) REMOVE ALL MAIN LINE VALVES, INCLUDING VALVE BOXES.
- 3.) PLUG OR CAP ALL WATERLINES WHERE ANY REMOVAL HAS TAKEN PLACE LEAVING AN OPEN END OF PIPING OR FITTING.
- 4.) PLUG OR CAP EXISTING WATERLINES WHERE NOTED ON THE PLANS AND AFTER PROPOSED WATERLINES ARE ACTIVATED.
- 5.) THE CITY OF OREGON WATER DEPARTMENT SHALL HAVE FIRST SALVAGE RIGHTS TO VALVES AND HYDRANTS.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED UNDER THE CONTRACT ITEM 638 ABANDONMENT OF EXISTING WATERLINES.

Grail Area Waterline (Revised) WL DETAILS & GENERAL NOTES.DWG

SCALE AS SHOWN  
DRAWN A.L.B.  
CHECKED  
DATE 2017

WATERLINE NOTES & DETAILS

CITY OF OREGON



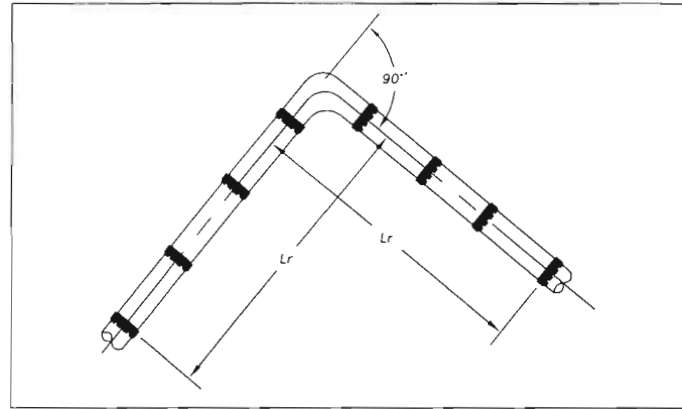


FIGURE 1. HORIZONTAL BEND

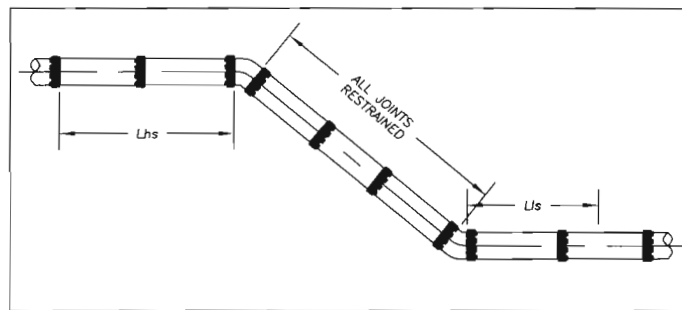


FIGURE 2. VERTICAL DOWN BEND AND OFFSET BEND

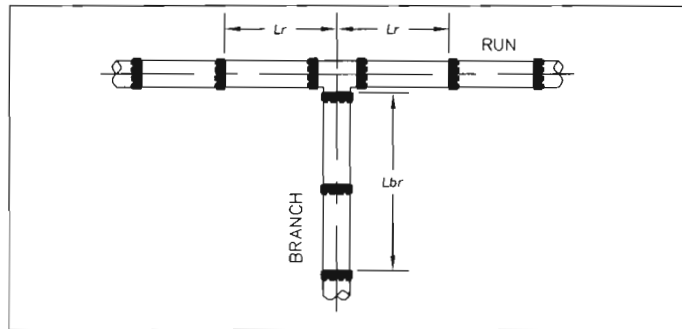


FIGURE 3. TEE

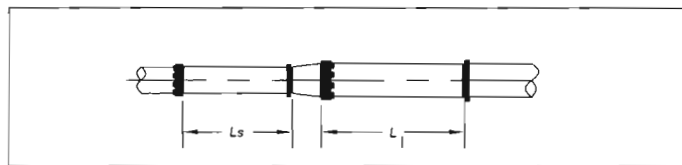


FIGURE 4. REDUCER

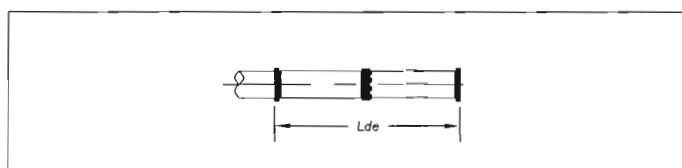


FIGURE 5. DEAD END

MINIMUM LENGTH OF PIPE RESTRAINED (FEET)

BRANCH SIZE	HORIZONTAL BENDS			VERTICAL BENDS				DEAD END
	90°	45°	22.5°	45°		22.5°		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	
6"	20	8	4	18	6	9	3	44
8"	26	11	5	24	8	11	4	58
10"	32	13	6	29	10	14	5	69
12"	37	16	7	34	12	16	6	82
14"	43	18	9	39	13	19	6	94
16"	48	20	10	44	15	21	7	106
20"	59	24	12	53	19	26	9	129
24"	69	29	14	62	22	30	11	151

PVC PIPE

BRANCH SIZE	HORIZONTAL BENDS			VERTICAL BENDS				DEAD END
	90°	45°	22.5°	45°		22.5°		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	
6"	21	9	4	12	6	6	3	28
8"	27	11	5	15	8	7	4	37
10"	33	14	7	18	10	9	5	44
12"	39	16	8	22	12	10	6	52
14"	44	18	9	25	13	12	6	60
16"	50	21	10	28	15	13	7	68
20"	61	25	12	34	18	16	9	82
24"	72	29	14	40	22	19	10	96

DUCTILE IRON

BRANCH SIZE	HORIZONTAL BENDS			VERTICAL BENDS				DEAD END
	90°	45°	22.5°	45°		22.5°		
	Lr	Lr	Lr	Lhs	Lls	Lhs	Lls	
6"	36	15	7	28	11	14	5	68
8"	48	20	10	37	15	18	7	89
10"	57	24	11	44	18	21	9	107
12"	68	28	13	52	21	25	10	126
14"	78	32	15	60	24	29	12	144
16"	88	36	17	67	27	32	13	163
20"	107	44	21	82	33	39	16	198
24"	125	52	25	96	39	46	19	232

DUCTILE IRON W/ POLYETHYLENE WRAP

ONLY THE CITY OF OREGON  
MAY OPERATE VALVES.

TEES  
PVC PIPE  
MINIMUM LENGTH OF PIPE RESTRAINED (FEET)(Lbr)

BRANCH SIZE	RUN SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"	*	*	*	*	*	*	*	*
8"	8	*	*	*	*	*	*	*
10"	30	18	5	*	*	*	*	*
12"	49	39	28	18	7	*	*	*
14"	66	57	1	39	30	20	1	*
16"	81	74	66	58	50	42	25	8
20"	110	104	97	91	85	78	65	51
24"	135	130	125	120	115	109	98	87

TEES  
DUCTILE IRON PIPE  
MINIMUM LENGTH OF PIPE RESTRAINED (FEET)(Lbr)

BRANCH SIZE	RUN SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"	9	3	*	*	*	*	*	*
8"	22	18	13	8	3	*	*	*
10"	33	29	25	21	17	13	5	*
12"	42	39	36	33	30	26	20	13
14"	51	49	46	43	41	38	32	26
16"	60	58	56	53	51	48	43	38
20"	76	75	73	71	69	67	63	59
24"	91	90	88	87	85	84	80	77

TEES  
DUCTILE IRON PIPE W/ POLYETHYLENE WRAP  
MINIMUM LENGTH OF PIPE RESTRAINED (FEET)(Lbr)

BRANCH SIZE	RUN SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"	21	7	*	*	*	*	*	*
8"	53	42	31	19	7	*	*	*
10"	79	70	60	51	42	32	12	*
12"	102	95	87	80	72	64	47	30
14"	124	118	111	105	98	91	77	63
16"	145	140	134	128	122	116	104	92
20"	184	180	175	171	166	161	152	142
24"	220	217	213	209	205	202	194	186

ONLY THE CITY OF OREGON  
MAY OPERATE VALVES.

REDUCERS  
PVC PIPE  
MINIMUM LENGTH OF PIPE RESTRAINED (L)(FEET)

REDUCTION SIZE	LARGE SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"		32	70	117	172	236	387	570
8"			29	65	107	156	271	412
10"				23	43	61	77	106
12"					24	44	63	95
14"						28	45	81
16"							24	64
20"								57
24"								

REDUCERS  
DUCTILE IRON PIPE  
MINIMUM LENGTH OF PIPE RESTRAINED (L)(FEET)

REDUCTION SIZE	LARGE SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"		20	45	75	111	151	248	366
8"			19	42	69	100	174	264
10"				15	28	39	49	68
12"					18	40	65	124
14"						18	39	88
16"							15	29
20"								59
24"								

REDUCERS  
DUCTILE IRON W/ POLYETHYLENE WRAP  
MINIMUM LENGTH OF PIPE RESTRAINED (L)(FEET)

REDUCTION SIZE	LARGE SIZE							
	6"	8"	10"	12"	14"	16"	20"	24"
6"		49	108	181	266	365	599	883
8"			45	101	166	241	419	637
10"				36	67	94	119	163
12"					44	96	156	299
14"						37	68	97
16"							43	93
20"								212
24"								

Ls: IF A SPECIFIED LENGTH OF PIPE, Ls (FEET), ON THE SMALL SIDE OF THE REDUCER IS FREE OF BENDS, VALVES, TEES OR OTHER FITTINGS, RESTRAINTS ARE NOT NECESSARY FOR THE REDUCER; OTHERWISE THE LARGER SIDE OF THE REDUCER SHALL BE RESTRAINED THE MINIMUM LENGTH (L1)(FEET).

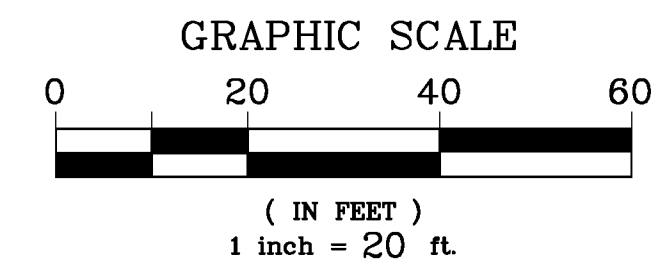
SCALE AS SHOWN  
DATE 09/30/15

WATERLINE  
DETAILS

CITY OF OREGON

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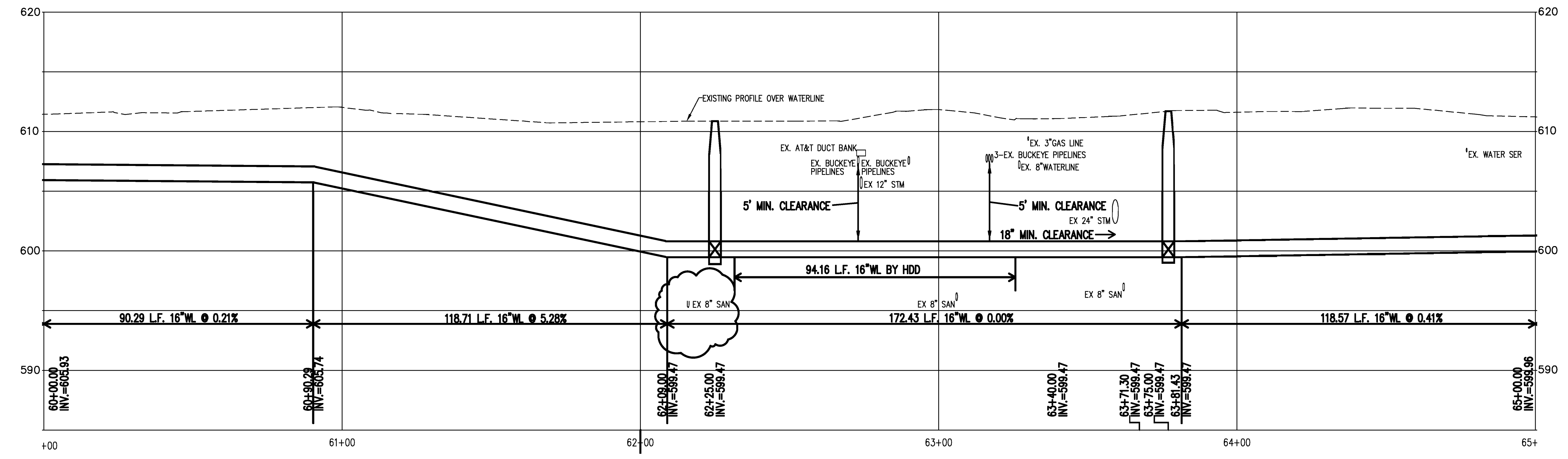
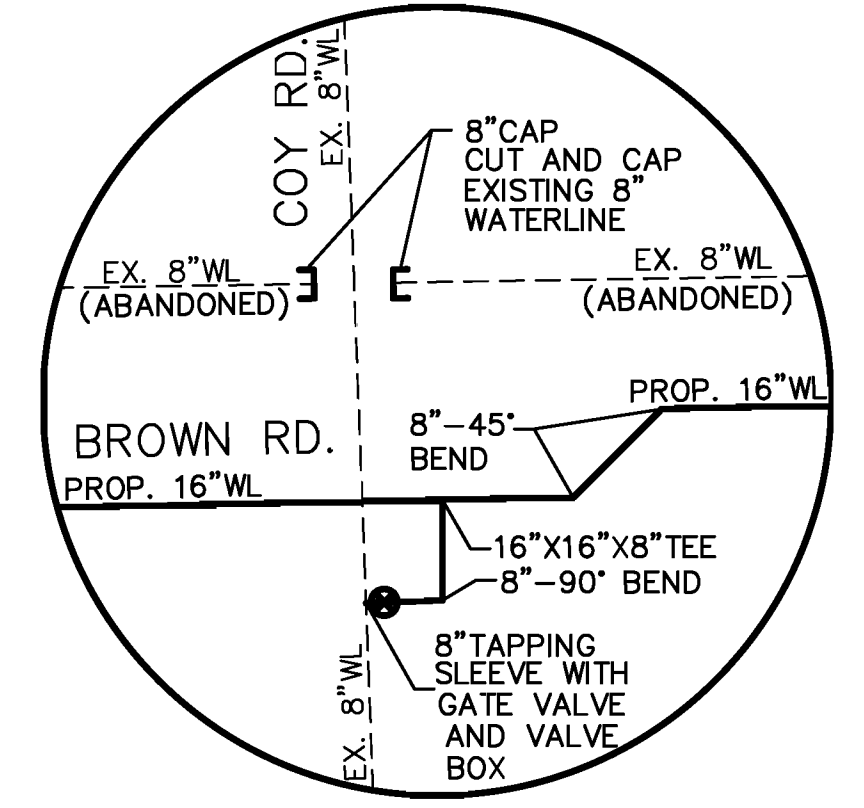
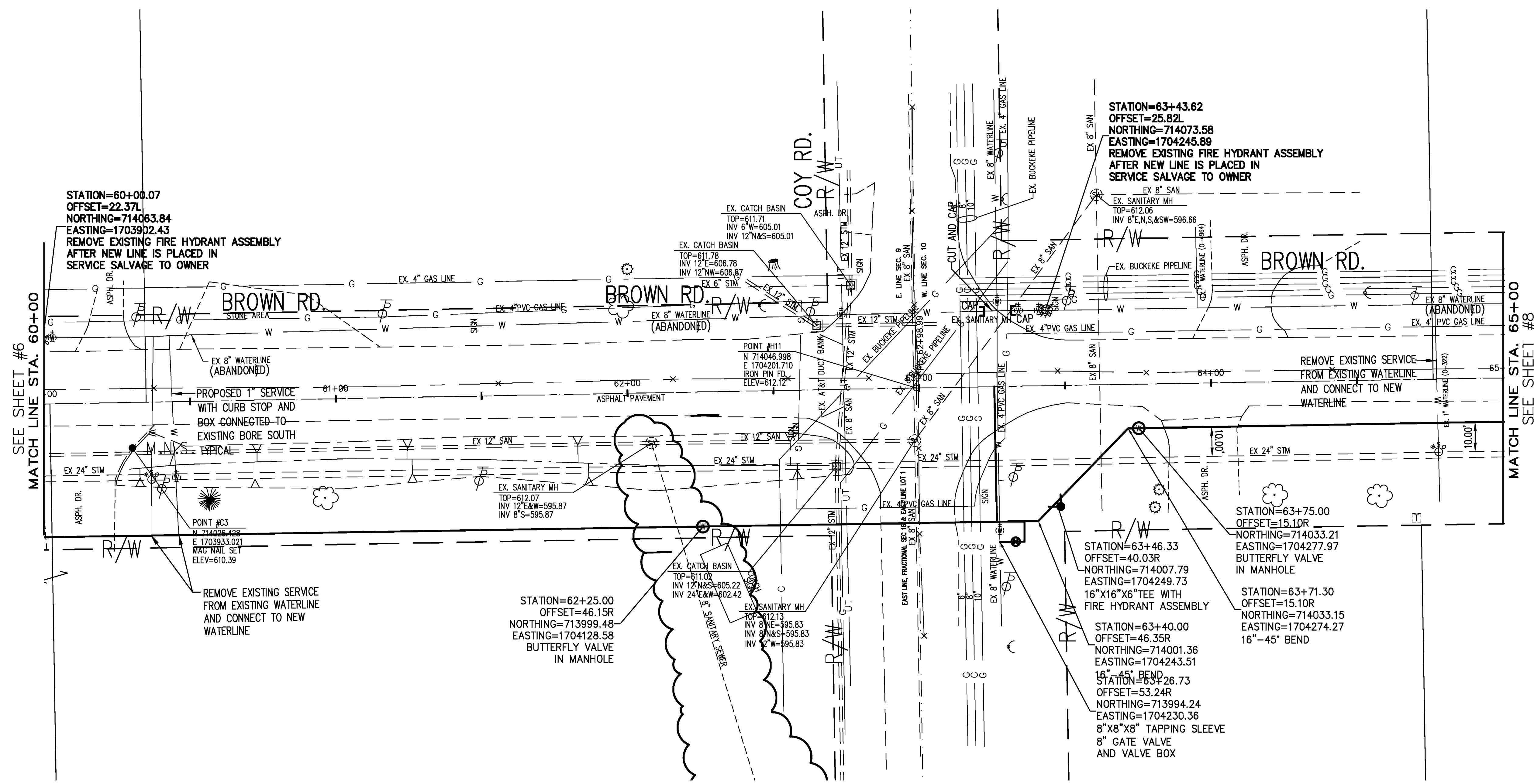
**UNDERGROUND UTILITIES**  
**TWO WORKING DAYS BEFORE YOU DIG**  
 Call 1-800-362-2764 (Toll Free)  
 OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS MUST BE CALLED DIRECTLY

NOTE: A MINIMUM OF TEN (10) FEET HORIZONTALLY AND EIGHTEEN (18) INCHES VERTICALLY FROM ANY SANITARY SEWER, STORM SEWER OR SEPTIC LINE MUST ALWAYS BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE OHIO EPA. NO ENTRY CONTACT WITH A SEWER MANHOLE IS PERMITTED.

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING ANY EXCAVATION PERFORMED AS A RESULT OF THIS PROJECT.

NOTE: SERVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. LOCATIONS WILL BE ESTABLISHED IN THE FIELD DURING CONSTRUCTION.

NOTE: CAUTION SEE RESTRICTIONS FOR WORKING OVER, UNDER AND AROUND PIPELINE.



**POGEMEYER DESIGN GROUP, INC.**  
 ARCHITECTS ENGINEERS PLANNERS  
 1168 NORTH MAIN STREET BOWLING GREEN, OHIO 43402  
 (419) 352-7537

SOUTHWEST WATER DISTRIBUTION IMPROVEMENT PROJECT  
 CITY OF OREGON

PLAN & PROFILE  
 60+00 TO 65+00  
 BROWN ROAD

DRAWN BY: RAO  
 CHECKED BY: DMP  
 REVISION:  
 ADD #2 RAO 7-11-17

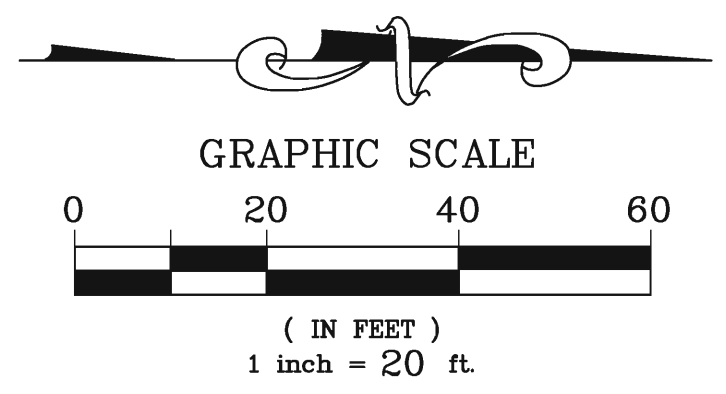
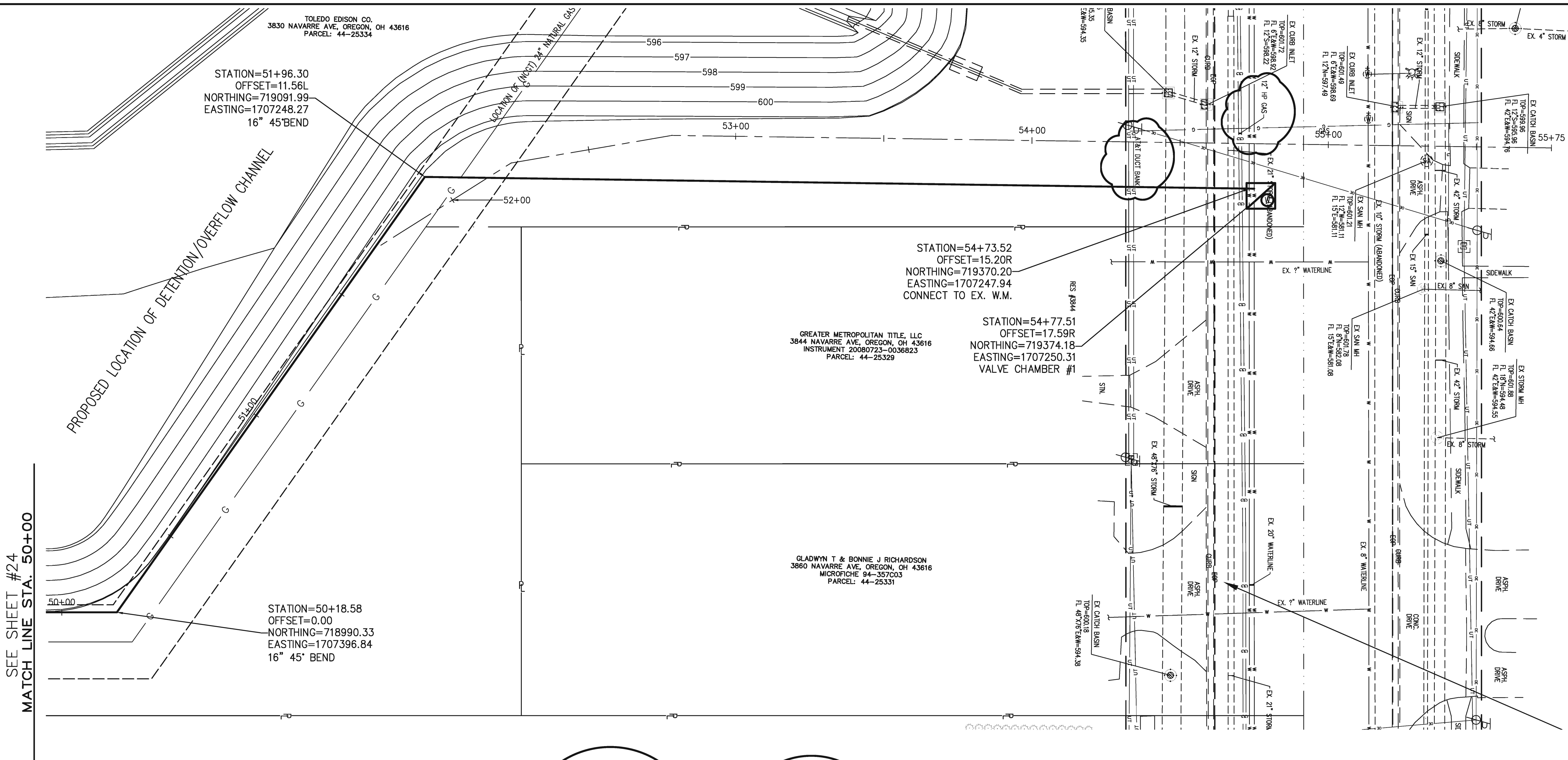
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JOB NUMBER  
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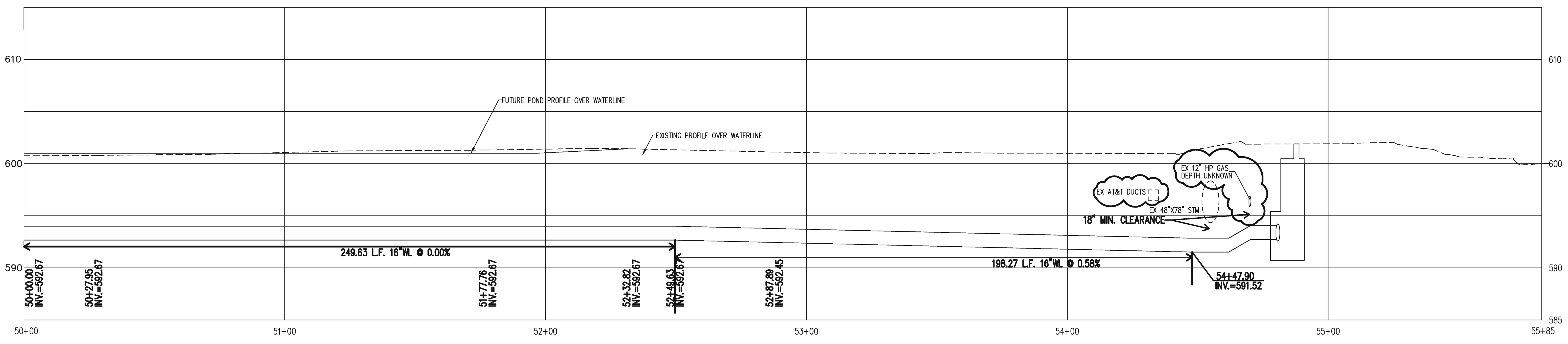
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NOTE: CAUTION SEE RESTRICTIONS FOR WORKING OVER, UNDER AND AROUND PIPELINE.

NOTE: CITY WILL ALLOW CONTRACTOR TO CLOSE EASTBOUND CURB LANE AND SHIFT TRAFFIC TO CENTER TURN LANE TO MAINTAIN ONE LANE FOR TRAFFIC, AT A MINIMUM, FOR EASTBOUND TRAFFIC. THIS TRAFFIC SHIFT WILL BE ALLOWED FOR A TIME PERIOD OF TWO (2) WORK WEEKS BUT THE CONTRACTOR MUST PLACE PERMANENT PAVEMENT DURING THIS CLOSURE PERIOD.

**Coordination of Work**

As required in the Contract Documents, the Contractor shall coordinate all work involved in construction of Southwest Water Distribution Project with the Pickle Road Storm Relief Project and Multi-Use Path, Phase 1 that are expected to be under construction simultaneously. The contractor shall fully cooperate with and coordinate their work with contractors on other projects for the City, utility service companies, City employees working at the Site for the satisfactory and expeditious completion of the Project. The Contractor shall review the Progress Schedule and installation procedures under other City Projects and contracts that may affect their Work and coordinate installation of such work with appropriate party or parties.



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SOUTHWEST WATER DISTRIBUTION IMPROVEMENT PROJECT  
 CITY OF OREGON

PLAN & PROFILE  
 50+00 TO 55+00  
 EASEMENT BL

DRAWN BY: RAO  
 CHECKED BY: DMP  
 REVISION: 02  
 DATE: 07-11-2017

25 OF 100  
 JOB NUMBER: 1210-100