

Washington Water Service Co.

Engineering Department
6800 Meridian Road SE
Olympia, WA 98513

Engineer's Opinion of Probable Project Costs Summary
Attachment "A"

Southwood Dietrich Firs Distribution Extension

August 27, 2021
(Projected Cost Good for 30-Days)

Engineering File # 3909

***** Construction Materials *****

Unit of Property	Description	Quantity	Unit of Measure	Unit Cost	Total
	Construction Materials, Pipe, Valves, Fittings, Etc	1	LS	\$ 2,825.45	\$ 2,825.45
103450	Construction Materials for Services	1	LS	\$ -	\$ -
103480	Construction Materials for Hydrants	1	LS	\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
Sub-Total					\$ 2,825.45
				Contingency 10%	\$ 282.54
				Sales Tax 9.00%	\$ 279.72
SUB Total - Materials					\$ 3,387.71
Rounded Up Value					\$3,400.00

***** Construction Labor *****

Unit of Property	Description	Quantity	Unit of Measure	Unit Cost	Total
103240	Construction Labor - Watermain	1	LS	\$ 5,502.00	\$ 5,502.00
103450	Construction Labor - Services	1	LS	\$ 786.00	\$ 786.00
103480	Construction Labor - Hydrants	1	LS	\$ 2,358.00	\$ 2,358.00
				\$ -	\$ -
	WWSC Engineering	1	LS	\$ 2,665.85	\$ 2,665.85
				\$ -	\$ -
				\$ -	\$ -
					\$ 11,311.85
				Contingency 10%	\$ 1,131.19
Sub-Total - Construction Labor					\$ 12,443.04
Rounded Up Value					\$12,500.00

***** Outside Contractor *****

Unit of Property	Description	Quantity	Unit of Measure	Unit Cost	Total
	County Permits (Encroachment)	1	LS	\$ 396.00	\$ 396.00
	DOH Review Fees	1	LS	\$ -	\$ -
	Tapping Contractor	1	LS	\$ -	\$ -
	Geotechnical Engineer	1	LS	\$ -	\$ -
	Engineering Consultant	1	LS	\$ -	\$ -
	Land Surveyor	1	LS	\$ -	\$ -
	Land Cost	1	LS	\$ -	\$ -
	Additional Insurance	1	LS	\$ -	\$ -
	Bonding	1	LS	\$ -	\$ -
	Sanitary Facility Rental (Portable Toilet)	1	LS	\$ -	\$ -
	Paving Contractor - Pavement Restoration	1	LS	\$ -	\$ -
	Traffic Control Contractor - Flagger	1	LS	\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
SUB TOTAL					\$ 396.00
				Contingency 10%	\$ 39.60
Sub-Total - Outside Contractor					\$ 435.60
Rounded Up Value					\$500.00

Project Subtotal =	\$ 16,400.00
Federal Tax per the TCJA =	\$ 4,359.49
State B&O Tax =	\$ 316.13
East Pierce Facilities Charge =	\$ 31,372.16
Anticipated TCJA Tax =	\$ 22,643.68

Anticipated Developer (onsite) Costs

\$ 85,183.37

Projected Funds Required = \$75,091

Assumptions:

- 1) This document is intended to forecast approximate construction costs based upon current information and similar projects, and is not intended to accurately represent actual design or construction components or prices.
- 2) Totals are rounded to nearest \$100

Southwood

Pierce County

Eng. File # 3909

Dietrich Firs Distribution Extension

Engineer's Opinion of Projected Construction Materials Costs
8/27/2021

Southwood

Pierce County

Eng. File # 3909

Dietrich Firs Distribution Extension

Engineer's Opinion of Projected Construction Materials Costs

8/27/2021

WWS Construction Crew- **Mains**

WWS Con

			<u>Rate</u>		<u>Sub-Total</u>	
1 Man & Vac Truck	8 HRS		\$ 75	\$ 600		1 Man & V
1 Man & Boom Truck	_____ HRS		\$ 75	\$ -		1 Man & B
1 Man & Backhoe - Trench	_____ HRS		\$ 75	\$ -		1 Man & B
1 Man & Backhoe - Comp	_____ HRS		\$ 75	\$ -		1 Man & B
Admin/Prep	8 HRS		\$ 75	\$ 600		Admin/Pre
1 Man & Truck	8 HRS		\$ 75	\$ 600		1 Man & T
2 Men & Truck	16 HRS		\$ 150	\$ 2,400		2 Men & T
1 Electrician & Truck	_____ HRS		\$ 80	\$ -		1 Electricia
2 Electricians & Truck	_____ HRS		\$ 160	\$ -		2 Electricia
				\$ -		
			Total	\$ 4,200		

Outside Contractor - No Pilot Car

1-Flagger	_____ HRS	\$ 30	\$ -	
2-Flaggers	_____ HRS	\$ 60	\$ -	
Signs	_____ DAYS	\$105	\$ -	
Other	_____ LS		\$ -	(RCE TRAFFIC CONTROL CUTSHEET)
	Sub-total		\$ -	

Sanitary Facility Rental (Portable Toilet)

_____ Days \$ 75 \$ -

Southwood

Eng. File # 3909

Pierce County

Dietrich Firs Distribution Extension

Engineer's Opinion of Projected Construction Materials Costs

8/27/2021

Task	Hours	Employee Classification	Rate	Total
<u>Facility Design</u>				
Project Setup	1	Engineer	\$ 85.00	\$ 85.00
Route Topo		Engineer	\$ 85.00	\$ -
Develop Base Drawings from Topo Info		Engineer	\$ 85.00	\$ -
DOH Project Report and Approval		Engineer	\$ 85.00	\$ -
Design & Draft Watermain Construction Documents		Engineer	\$ 85.00	\$ -
Sub-Total	<u>1</u>			\$ 85.00
<u>Revisions per Peer Review Comments</u>				
P.E. Peer Review	2	Principle Eng	\$ 115.00	\$ 230.00
Revisions to Construction Documents per Peer Review Comments	2	Engineer	\$ 85.00	\$ 170.00
Coping & Re-Submittal of Project Report & Construction Documents		Clerical	\$ 60.00	\$ -
Sub-Total	<u>4</u>			\$ 400.00
<u>Construction</u>				
Pre-Construction Conference with Engineering & Contractor	2	Engineer	\$ 85.00	\$ 170.00
Construction Inspection & Pressure Test	8	Engineer	\$ 85.00	\$ 680.00
Sub-Total	<u>10</u>			\$ 850.00
<u>Record Documents</u>				
As-Built Drawings & Testing Validations along with Project Certification Document Preparation		Engineer	\$ 85.00	\$ -
P.E. Project Certification		Principle Eng	\$ 115.00	\$ -
Updating Base Maps & Site Piping	4	Engineer	\$ 85.00	\$ 340.00
Project Close-Out	6	Clerical	\$ 60.00	\$ 360.00
Sub Total	<u>10</u>			\$ 700.00
Projected Total Hours	25			\$ 2,035.00