## ATTACHMENT 4A LEVEL OF EFFORT Task Outline and Fee Estimate Worksheet Bristol East - Waterline Replacement Project VTM Project No: 22-1.4 D

## 7/17/2024

Prepared By: SLP

Item	Code	Description	Principal Engineer	Project Engineer	Field Data Collection & Survey	Expenses & Subcontracts	Labor Costs	Total Cos
FEP II -	Final D	esign Phase Services						
Ι		Standard Final Design Phase Engineering Services						
1	PA	Project Management/Coordination (4 hrs wk x 60 weeks)	240				\$30,000	\$30,000
2	PA	Step II DWSRF Funding Application (Bristol East)	16				\$2,000	\$2,000
3	PA	Step II Engineering Services Agreement (Bristol East)	24				\$3,000	\$3,000
4	S	Topo Survey/Field Reconnaissance & Coordination (13 street segments)	0		240		\$30,000	\$30,00
5	D	30% Drawing Preparation/Review with Client (12 Street Segments)	32				\$4,000	\$4,000
6	D	Layout/Design/Drawing Preparation (Estimate 31 sheets, 4 iterations)	240	620			\$92,000	\$92,00
7	D	60% Drawing Preparation/Review with Client (12 Street Segments)	32				\$4,000	\$4,000
8	D	Addition of Private Service Lines (Not included in scope)	0				\$0	\$0
9		90% Bid Document Preparation	60				\$7,500	\$7,500
10		Preparation/Public Review Meetings & Presentation with Selectboard & Public	20				\$2,500	\$2,500
10		Permit to Construct Preparation/Submittal/DEC Review	16				\$2,000	\$2,000
12		Final Internal Engineering Review & 100% Completion of Drawings & Specifications	40				\$5,000	\$5,000
12	D	Material Takeoffs/Cost Estimates	40 60	80			\$15,500	\$15,50
13	D	Environmental Documentation - SHPO, Env., Act 250, NEPA	60	80			\$7,500	\$13,30
14		ROW Certification Town Attorney Coordination	16				\$2,000	\$7,500
15	D		16				\$2,000	\$2,000
10	D	Step 3 Priority List Application		700	240	¢0	. ,	. ,
		Subtotal	872	700	240	\$0	\$209,000	\$209,00
1	- D	Direct Expenses & Subcontracts	1	1	T	\$500	¢0	\$500
1 2	D	Supplies $(Cost + 8\%)$				\$500 \$900	\$0 \$0	\$500 \$900
2	PA	Permit Fees (Cost)						
	S	Travel (50 days x 44 miles@\$0.655) = \$28.82/day				\$1,441	\$0	\$1,441
4	SUB	VTUMS - Utility Location Services (Cost + 8%)				\$10,000	\$0	\$10,00
5	SUB	Geotechnical Evaluation				\$7,500	\$0	\$7,500
		Subtotal	0	0	0	\$20,341	\$0	\$20,34
Ш		Non-Standard Services						
1	SUB	Archeological Services (Placeholder)				\$7,500	\$0	\$7,500
2	SUB	Environmental Services (Completed as part of the Bristol West Project)				\$0	\$0	\$0
3	SUB	Boundary & ROW Location Services (Placeholder)				\$15,000	\$0	\$15,00
			0	0	0	\$22,500	<b>\$0</b>	\$22,50
		SUBTOTAL (hours)	872	700	240			
		HOURLY RATE (\$/hr)	\$125	\$100	\$125			
		Subtotal Hourly Costs + Expenses (\$)				\$42,841	\$209,000	\$251,84
OTALS	BY WO	RK TYPE:					·	
andard F	inal Des	ign Phase Engineering Services :	\$209,000					
virect Expenses & Subcontracts:				TOT STANDAR	D FINAL DESIG	N PHASE ENG	COST =	\$229.34
ubcontracted Services:			\$20,341 \$22,500	101 51110/10				,J-
Total			\$22,500 \$251,841	TOTAL STEP 2	FNG COST -			\$251,84
		1 0(4)	φ <b>4</b> 31,0 <b>4</b> 1	I OTAL STEL 2	E10 C051 -			φ431,04
				struction Cost =	\$3,428,900	7.3%	Total Eng. Cost	

Est. Constuction Eng. =

PA = Project Administration, D = Design, S = Survey, SUB = Subcontracted Services No service replacements are anticipated within this scope of work \$387,586