



**Consulting Scope of Services & Cost Estimate**

PROJECT NAME: Missoula Water - 3rd Street Water Main Replacement (TLI #18-5173)			\$70	\$90	\$94	\$102	\$132	\$144	\$144	\$110	\$170	DATE:	September 17, 2019	
Budget Amendment #1 - Construction Services			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		Consulting Cost Estimate		
Item No.	Description	Scope		Lead Drafter	EI/Other	PE/EI	PE	PE	PLS	1 Man	2 Man	TLI Services	Direct Expenses	Agency Review Fees
800 Series - Construction Administration, Inspections, and Staking			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		TLI Services	Direct Expenses	Agency Review Fees
800	Project Management	Time included for project meetings and project coordination.					12					\$ 1,584.00		
801	Contract Documents and Specifications	TLI will prepare a Project Manual with Contract Documents and Specifications. The contract documents will be appropriately formatted for the project funding source and will integrate the City of Missoula Project Special Conditions and applicable contract forms. The Contract Documents will include the following sections: Invitation to Bid, Instructions to Bidders, Acknowledgment of Receipt of Addendum, Bid Form and Unit Price Schedule, Bid Bond, Notice of Award, Agreement, Payment and Performance Bonds, Notice to Proceed, Change Order Form, Application for Payment Form, Certificate of Completion Form, General Conditions, Supplementary Conditions, Wage Rates, EEO Requirement Provisions, City of Missoula Special Provisions, and TLI Special Provisions. The contract documents will also include the Final Construction Drawings. Assumes no Federal Funds will be used. Assumes 3rd Street replacement will be bid as its own separate project.			16	8	2					\$ 2,584.00		
803	Quantity Estimates	Based on Construction Drawings TLI will finalize quantities of Site work items for an Engineers Cost Estimate.				8	1					\$ 948.00		
805	Engineer's Cost Estimate	Prepare an engineer's estimate based on the bid item schedule (quantities) in the contract documents. Unit costs will be derived from other recent construction projects and any preliminary unit costs the Client may have obtained.				8	2					\$ 1,080.00		
811	Bidding Assistance	Coordinate bid solicitation through City of Missoula process. Assumes Missoula Water will pay the bid advertising cost in the Missoulian. Answer bidder's questions. Assist with bid opening, review of bids for compliance with specifications, prepare bid tabulation for review, and provide recommendation to Client for award. Upon approval for award, TLI will issue the Notice of Award. Assumes one addendum will be issued. Assumes addendums will primarily focus on clarifications to bidders, with only minor revisions to plans via exhibits.				16	8					\$ 2,688.00		
813	Pre-Construction Public Meeting	TLI will attend a public meeting prior to construction to help present the project to the general public. Assumes Missoula Water will set the date/time/place of the meeting and one TLI staff member will be present. Assumes minimal time to assist with a power point presentation on the project if needed.					2					\$ 264.00		
815	Contract Administration	TLI will review Contractor submittals, and coordinate and attend a pre-con meeting with the involved parties and selected Contractor to discuss construction and responsibilities of Client, Contractor, and Engineer. TLI will issue Notice to Proceed, review payment applications and process change orders. Assumes no more than one change order will be processed.				40	10					\$ 5,400.00		
867	Water Main & Services Computations & Crew Prep	CAD Draftsman will produce calculated design points in accordance with the approved plans for the Water Main alignment including: beginning and end of pipe, connections, horizontal and vertical bends, valves, tees, blow offs, air reliefs, hydrants, and the locations of the water service connection at the main. Draftsman will then compile a list of design points and prepare a survey point's exhibit. Time included for an Engineer to check the calculated points, prepare cut sheets and provide Survey Crew instructions. Once stakes are placed, the Engineer will review Survey Crew field notes and "as-staked" data for accuracy and, if necessary, complete cut sheet for distribution to Contractor. Cut sheets will provide offset and cut/fill information for stakes.					4					\$ 528.00		
869	Water Main & Services Construction Staking	Survey crew will provide stakes for the water main alignment and appurtenances per the approved design plans. Assumes stakes will be needed at 25 foot intervals along station, and at beginning and end of pipe, connections, horizontal or vertical bend, valves, tees, blow offs, air reliefs, hydrants, and the location of the water service connections at the main. Stakes will be provided at offsets and assumes that work can be completed in one visit. Crew will collect "as-staked" information for verification of stake accuracy. Assumes two blocks will be staked at a time, so assumes 2 trips total.					4		1		16	\$ 3,392.00	\$ 250.00	

