

Consulting	Scope of	Services 8	k Cost Estimate
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ries - Preliminary Projec Description Project Management	Scope	Admin	CAD			Project							
•	Scope		CAD	Technician	Production	Manager	Senio	r Staff	Surve	ey Crew	Consu	ulting Cost Es	timate
Project Management			Lead Drafter	El/Other	PE/EI	PE	PE	PLS	1 Man	2 Man	IMEG Services	Direct Expenses	Agency Review Fee
, ,	IMEG project meetings, schedule, and project coordination associated with this portion of work.					4					\$ 560.00		
Pre-Design Meeting with Client	Project Manager and select team members will meet with the Client to discuss project goals and project coordination. Initial meeting with Missoula Water to review as-builts of the main plus service ditch cards and discuss tie in options. Review preliminary survey research.				6	2					\$ 940.00		
Review Right-of-Way, Plats & COS's								2			\$ 300.00		
Preliminary Alignment Review - Stage 2	Based on the information gained through the initial feasibility tasks and field work, IMEG will prepare a preliminary alignment and connection options of the water main replacement. IMEG will submit preliminary alignment to Missoula Water for review/comment as part of the Stage 2 submittal process.		12		6	2					\$ 2,080.00		
	Series 100 Total	0	12	0	12	8	0	2	0	0	\$ 3,880.00	\$ -	\$ -
0 Series - Field Work & Surveying		Admin	CAD	Technician	Production	Project Manager	Senio	r Staff	Survey Crew		IMEG Services	Direct Expenses	Agency Review Fee
Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					3					\$ 420.00		
General Site Visit	Engineering staff member to walk site to get general understanding of topography and existing features. Become familiar with the previously unidentified potential challenges to the project and take photos of the site. Assumes time included to research and dip sewer mains in the project area			2	4						\$ 630.00		
Limited R/W Survey & Utility/Topographic Mapping	system and the vertical datum will be referenced to NAVD88. In addition to topographic features, limited R/W ties will be made to existing monumentation & surveys/plats of record. Mapping information will be depicted in relation to the R/W. Survey control will also be placed in areas out of the construction area that can be used during the construction staking phase of the project. Assumes 3 days of survey crew field work. Project survey area is 1st Street from Walnut to Hickory, Hickory from 1st to 2nd, 2nd Street from Hickory to Orange, and Cottonwood from 2nd to 3rd.		12			2		2	48		\$ 7,630.00		
FF	Plats & COS's Preliminary Alignment Review - Stage 2 Project Management General Site Visit Limited R/W Survey & Jtility/Topographic	Time included to research the status of the adjacent right of ways (ROWs). Time included to research at Records Room concerning ROW. Assumes ROW will not be determined to be exact as improvements will take place within the road right of ways and service lines will be run into the existing boulevard. Based on the information gained through the initial feasibility tasks and field work, IMEG will prepare a preliminary alignment and connection options of the water main replacement. IMEG will submit preliminary alignment to Missoula Water for review/comment as part of the Stage 2 submittal process. Series 100 Total review/comment as part of the Stage 2 submittal process. Series 100 Total fies - Field Work & Surveying Project Management IMEG project meetings, schedule, and project coordination associated with this portion of work. 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Cultural features include, but are not limited to: mail boxes, utility lines, fences, power poles, wells, pathways, driveways and signs. Mapping will be completed and referenced to the Montana State Plane coordinate system and the vertical datum will be referenced to NAVD88. In addition to topographic features	Time included to research the status of the adjacent right of ways (ROWs). Time included to research at Records Room concerning ROW. Assumes ROW will not be determined to be exact as improvements will take place within the road right of ways and service lines will be run into the existing boulevard. Preliminary Alignment Review - Stage 2 Based on the information gained through the initial feasibility tasks and field work, IMEG will prepare a preliminary alignment and connection options of the water main replacement. IMEG will submit preliminary alignment to Missoula Water for review/comment as part of the Stage 2 submittal process. 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Series 100 Total O 12 O 12 Technician Production Production Time included to research and dip search and the project and task photos of the site. Assumes time included to research and dip sewer mains in the project area. Imited R/W Survey & Illited Park State of the Stage 10 the project and task photos of the site. Assumes time included to research and dip sewer mains in the project area. Imited R/W Survey & Illited To a drafter to reduce the mapping into a site map. Time included for a drafter to reduce the mapping into a site map. IMEG survey crew will visit the site and ties structures, improvements, cultural features and ground elevations sufficient to create an accurate map of the site. Contours will be generated at one-foot intervals based upon the collected data, creating a surface suitable for design. Cultural features include, but are not limited to: mail boxes, utility lines, fences, power poles, wells, pathways, driveways and signs. 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Preliminary Alignment Review - Stage 2 Review - Stage 3 Review - Stage 3 Review - Stage 3 Review - Stage 3 Review - Stage 4 Review - Sta	Review Right-of-Way, Plats & COS's If time included to research the status of the adjacent right of ways (ROWs). Time Included to research at Records Room concerning ROW will not be determined to be exact as improvements will take place within the road right of ways and service lines will be run into the existing boulevard. Preliminary Alignment Review - Stage 2 Preliminary Alignment Review - Stage 2 In the Stage 2 submitted process Series 100 Total In the Stage 2 submitted p	Time included to research the status of the adjacent right of ways (ROWs). Time included to research at Records Room concerning ROW. Assumes ROW will not be determined to be exact as improvements will take place within the road right of ways and service lines will be run into the existing boulevard. 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Consulting Scope and Cost Estimate

500 S	00 Series - MDEQ: Applications, Sewer Designs; Water Designs; Subdivision Drainage Design		Admin	CAD	Technician	Production	Project Manager	Senio	r Staff	Surve	ev Crew	IMEG Services	Direct Expenses	Agency Review Fees
500	Project Management	IMEG project meetings, schedule, and project coordination associated with this	Admin	CAD	recillician	Floduction	6	Seriio	Juli	Surve	J Clew		Σλροιίσσο	
575	DEQ 1 Water System, Report - Exhibits	portion of work. Develop the water system collection maps for this vicinity and gather hydrant test data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed.			2	1						\$ 840.00 \$ 300.00		
577	DEQ 1 Water System, Report - Produce	Given that the involved parties are familiar with this type of water main replacement work, the MDEQ Certified Checklist for water mains will be used. This checklist requires a thorough review of the plans against MDEQ's Circular DEQ-1 for compliance. In addition, a simple design report will be prepared in accordance with Circular DEQ-1. This includes getting certification from the Client that they will retain a PE to certify the improvements and review by the governing body's Engineering staff for the main replacement plans. Assumes there will be one Deviation request.			6	1						\$ 680.00		\$ 300.00
580	DEQ 1 Water System, Construction Plans - Plan/Profile	Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: 1st Street from Walnut to Hickory Hickory from 1st to 2nd, 2nd Street from Hickory to Orange, and Cottonwood from 2nd to 3rd. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one solicitation of preliminary review from system Owner. Assumes up to five sheets will be required for plan and profile.		38		8	4					\$ 5,050.00		
	DEQ 1 Water System, Construction Plans - Details	Prepare cover sheet and up to two detail sheets including water service table and typical details for water main construction. Additional coordination with the system Owner is not anticipated for details since this is a standard water main construction.		8		4	2					\$ 1,480.00		
	City of Missoula Stage 3 and Stage 4 Checklists	Assumes that the Stage 3 and Stage 4 Checklist will need to be completed for the City of Missoula. Time included to complete these 2 checklist and submit to the City for their review and approval.		3	12	6	2					\$ 2,365.00		
591	MDEQ Submittal	Finalize packet, copy, and send in. Assumes no review fees as project will be an SRF project.				2	1	4				\$ 960.00		
594	Address Reviewer Questions	As these are simple main projects with the Certified Checklist, it is assumed that there will be no MDEQ requests for additional information.										\$ -		
												Ψ -		
		Series 500 Total	0	49	20	22	15	4	0	0	0	\$ 11,675.00	\$ -	\$ 300.00
800 S	eries - Construction Admi		0 Admin	49 CAD	20 Technician	22 Production	15 Project Manager	4 Senio			0 ey Crew	Ť	\$ - Direct Expenses	\$ 300.00 Agency Review Fees
	Project Management Contract Documents and Specifications - Including SRF Documentation	Series 500 Total					Project				-	\$ 11,675.00 IMEG	Direct	Agency
800	Project Management Contract Documents and Specifications - Including	Itime included for project meetings and project coordination. IMEG 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, SRF Requirements, and IMEG Special Provisions. The contract documents will also include the Final			Technician	Production	Project Manager 8				-	\$ 11,675.00 IMEG Services \$ 1,120.00	Direct	Agency
800 801 803 805	Project Management Contract Documents and Specifications - Including SRF Documentation Quantity Estimates Engineer's Cost Estimate	Ime included for project meetings and project coordination. IMEG 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, SRF Requirements, and IMEG Special Provisions. The contract documents will also include the Final Construction Drawings. Based on Construction Drawings IMEG will determine quantities of work items for an 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.		CAD	Technician	Production 8	Project Manager 8				-	\$ 11,675.00 IMEG Services \$ 1,120.00 \$ 2,860.00	Direct	Agency
800 801 803 805	Project Management Contract Documents and Specifications - Including SRF Documentation	Itime included for project meetings and project coordination. IMEG 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, SRF Requirements, and IMEG Special Provisions. The contract documents will also include the Final Construction Drawings. Based on Construction Drawings IMEG will determine quantities of work items for an Engineers 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	Admin	CAD	Technician	Production 8	Project Manager 8 6				-	\$ 11,675.00 IMEG Services \$ 1,120.00 \$ 2,860.00 \$ 1,260.00	Direct	Agency

Consulting Scope and Cost Estimate 2 of 3

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815	Contract Administration	IMEG will review Contractor submittals, and coordinate and attend a pre-con			24	8	6							
		meeting with the involved parties and selected Contractor to discuss construction												
		and responsibilities of Client, Contractor, and Engineer. IMEG will issue Notice to												
		Proceed, review payment applications and process change orders. Assumes no												
		more than one change order will be processed.										\$ 4,000.00		
867	Water Main & Services	CAD Draftsman will produce calculated design points in accordance with the			6				1					
	Computations & Crew	approved plans for the Water Main alignment including: beginning and end of pipe,												
	Prep	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.										\$ 720.00		
869	Water Main & Services	Survey crew will provide stakes for the water main alignment and appurtenances			6		4		1		20			
	Construction Staking	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.										\$ 4,880.00	\$ 200.00	
871	Construction Inspection	IMEG will provide construction oversight in order to ensure Contractor is			200	36	12							
	and Material Testing	completing project in substantial compliance with the Plans and Specifications.												
		IMEG will sub consult with a local geotechnical engineering and material testing												
		firm to complete Client's Quality Assurance testing. Sub consulting fees will be												
		billed under the IMEG contract as a reimbursable expense. Assumes asphalt												
		testing on patch back will occur on this project. Inspections will be documented												
		and included in final close-out documents for project. Assumes no more than 10												
		weeks from start to finish for the main replacement and service connections												
		including testing. Inspections budgeted at two visits per day during the 10 week												
		construction period. Reimbursable expense included for bacteria testing.										\$ 24,640.00	\$ 8,000.00	
875	Certificate of Substantial	IMEG will process Substantial Completion form at request of Contractor. IMEG				6	2							
	Completion and Final	will then coordinate a preliminary final walkthrough with Client; to establish date of												
	Walkthrough	substantial completion. Upon completion of any punch list items a final												
		walkthrough with Client and Contractor will be completed for project acceptance.												
		Series 800 Total	0	4	248	90	46	0	2	0	20	\$ 940.00 \$ 44.180.00	\$ 8.200.00	\$ -
000 6	eries - Final Project Docu	11 11 11 11	U	4	248	90		U	2	U	20	, ,	,	
900 3	eries - Filiai Project Docu	mentation	Admin	CAD	Technician	Production	Project Manager	0	or Staff	0	ev Crew	IMEG Services	Direct Expenses	Agency Review Fees
044	0	INTO AND AND FOLLOWING TO SERVICE AND	Admin	CAD	1			Senio	or Stair	Surve	ey Crew	Services	Expenses	Review Fees
911	Construction As-Builts - Water	IMEG will utilize field notes and photos to prepare as-built plans for certification of the water main replacement.			12	2	1					\$ 1,500.00		
Q1 <i>1</i>	Construction	IMEG will assemble the construction plans, photos, testing results, submittals and	1	8	16	3	1					φ 1,500.00		1
314	Certifications -	a short summary report with the construction as-built plans for submittal to DEQ		U	10	3	'							
	Water(DEQ & Stage 6)	for certification of the project. Time included for IMEG to complete the City of												
l	Traici(DEQ & Stage 0)	Missoula Stage 6 Checklist submittal. It is assumed that Stage 5 submittal is not												
		needed as the City will be involved through the Construction phase of this project.												
		project.											1	1
												\$ 2,825.00		

Project Summary			Technician	Production	Project Manager	Senio	r Staff	Surve	ey Crew	IMEG	Direct	Ac	gency
Item No Description	Admin	Lead Drafter	El/Other	PE/EI	PE	PE	PLS	GPS	Total Station	Services	Expenses	Review Fees	
100 Series - Preliminary Project Assessment and Planning	0	12	0	12	8	0	2	0	0	\$ 3,880.00	\$ -	\$	-
200 Series - Field Work & Surveying	2	12	2	4	5	0	2	48	0	\$ 8,680.00	\$ 300.00	\$	-
500 Series - MDEQ: Applications, Sewer Designs; Water Designs; Subdivision													
Drainage Design	0	49	20	22	15	4	0	0	0	\$ 11,675.00	\$ -	\$	300.00
800 Series - Construction Administration, Inspections, and Staking	0	4	248	90	46	0	2	0	20	\$ 44,180.00	\$ 8,200.00	\$	-
900 Series - Final Project Documentation	1	8	28	5	2	0	0	0	0	\$ 4,325.00	\$ -	\$	-
1000 Series - 5% Additional Services - TBD By City's Project Manager										\$ 3,600.00			
Total Consulting and Reimbursable to Obtain Approvals	3	85	298	133	76	4	6	48	20	\$ 76,340.00	\$ 8,500.00	\$	300.00
Total Estimate including Reimbursable				`					•		\$85,140.00		

Consulting Scope and Cost Estimate 3 of 3