

City of Edina WTP 5 Design	AE2S																Oertel Architects			KFI		Stonebrooke				
	Meyer	Vollmer	DeBoer, PhD	McKenzie	Klabo	Wilke	Hauptert	Pittman	Ruda	Geiger	Browen	Schmidt	Marohl	Smith	Leppala	Sluiter	Oertel	Stromsodt	Support	Wentz	Support	Survey Crew	Subtotal	Labor	Expenses	Total
	CM	Process, PE, PM	Process, PE	CIV, PE	Water Rec., PE	STR, PE	ELEC, PE	I&C	Elect, EIT	Structural, PE	Process, EIT	Struc, Tech	Civil, Tech	Elect, Tech	Process, Tech	Admin	AIA	AIA	Arch, Tech	Mech, PE	Mech, Tech	2- person crew	Hours			
2017/2018 Billing Rate	\$ 220	\$ 168	\$ 200	\$ 148	\$ 168	\$ 168	\$ 168	\$ 168	\$ 124	\$ 148	\$ 124	\$ 143	\$ 143	\$ 82	\$ 179	\$ 82	\$ 160	\$ 125	\$ 90	\$ 160	\$ 80	\$ 200				
Preliminary Engineering Phase	36	176	22	30	29	16	40	20	-	-	296	20	20	-	220	24	-	238	425	97	150	80	1,939	\$264,836	\$3,164	\$268,000
Civil Design and Drafting	0	0	0	26	25	6	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	80	157	\$28,716	\$0	\$28,716
Survey Coordination				6																		80	86	\$17,688		\$17,688
Soil Boring Coordination and Review						6																	6	\$1,008		\$1,008
Stormwater and Permitting Coordination					15																		15	\$2,520		\$2,520
Development of Preliminary Site Plan and Underground Utility Plan				20	10								20										50	\$7,500		\$7,500
Structural Design and Drafting	0	0	0	0	0	6	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	26	\$3,868	\$0	\$3,868
Development of Preliminary Structural Wall Sections and Floor Sections						6						10											16	\$2,438		\$2,438
Development of Preliminary Footing Design												10											10	\$1,430		\$1,430
Architectural Design and Drafting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220	416	0	0	0	636	\$68,187	\$0	\$68,187
Preliminary design																							0	\$0		\$0
Concept Development																		20	8				28	\$3,381		\$3,381
Schematic Design																		80	120				200	\$21,840		\$21,840
Design development																		120	288				408	\$42,966		\$42,966
Process Design and Drafting	20	160	22	0	0	0	0	0	0	0	280	0	0	0	220	0	0	0	0	0	0	0	702	\$109,780	\$0	\$109,780
Schematic Design and P&ID's	4	40	5								60				40								149	\$23,200		\$23,200
Draft Hydraulic Profile	4	40	5								40				40								129	\$20,720		\$20,720
Below Grade Tank and Equipment Layout	4	20	4								20				40								88	\$14,680		\$14,680
Filter Layouts / Below Grade Tank Layouts	4	20	4								20				60								108	\$18,260		\$18,260
Chemical Room Layouts / Equipment Sizing	4	20	4								40				40								108	\$17,160		\$17,160
Misc Coordination with other Disciplines		20																					20	\$3,360		\$3,360
Specifications											100												100	\$12,400		\$12,400
Mechanical Design and Drafting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	150	0	235	\$26,880	\$0	\$26,880
																				85	150		235	\$26,880		\$26,880
																							0	\$0		\$0
Electrical Design and Drafting	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	\$6,048	\$0	\$6,048
General Room Sizing							4																4	\$672		\$672
Load List Development							16																16	\$2,688		\$2,688
P&ID's							16																16	\$2,688		\$2,688
I&C Design and Drafting	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	\$2,688	\$0	\$2,688
P&ID Development								16															16	\$2,688		\$2,688
Milestone Meetings	16	16	0	4	4	4	4	4	0	0	16	0	0	0	0	24	0	18	9	12	0	0	131	\$18,669	\$3,164	\$21,833
Kickoff Meeting and Site Tours	8	8		4	4	4	4	4			8					8		6		8			66	\$10,164		\$10,164
Progress Meeting No. 1 (Stakeholder Meeting with Edina, and Simon)	4	4									4					8		6	5				31	\$3,964		\$3,964
Progress Meeting No. 2 (30% deliverable)	4	4									4					8		6	4	4			34	\$4,542	\$3,164	\$7,706

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2017/2018 Billing Rate	\$ 220	\$ 168	\$ 200	\$ 148	\$ 168	\$ 168	\$ 168	\$ 168	\$ 124	\$ 148	\$ 124	\$ 143	\$ 143	\$ 82	\$ 179	\$ 82	\$ 160	\$ 125	\$ 90	\$ 160	\$ 80	\$ 200					
Final Design Phase	40	392	12	134	74	134	198	288	120	140	428	390	160	320	340	35	48	128	768	100	150	-	4,399	\$597,612	\$7,388	\$605,000	
Civil Design and Drafting	0	24	0	130	70	0	0	0	0	0	0	0	160	0	0	0	0	0	0	0	0	0	384	\$57,912	\$0	\$57,912	
Demo Plans		4		20									40									64	\$9,352		\$9,352		
Site Plan Development		4		30	30								40									104	\$15,872		\$15,872		
Utility Plans		4		30									40									74	\$10,832		\$10,832		
Details		4		10	20								20									54	\$8,372		\$8,372		
Misc. Coordination Items		4		20	20								20									64	\$9,852		\$9,852		
Specifications		4		20																		24	\$3,632		\$3,632		
Structural Design and Drafting	0	32	0	0	0	130	0	0	0	140	0	390	0	0	0	0	0	0	0	0	0	0	692	\$103,706	\$0	\$103,706	
Foundation Design		4				20				20		60										104	\$15,572		\$15,572		
Below Grade Walls						20				20		60										104	\$15,572		\$15,572		
Above Grade Walls						20				20		60										104	\$15,572		\$15,572		
Floors and Roof						20				20		60										104	\$15,572		\$15,572		
Beams and Columns						20				20		70										114	\$17,002		\$17,002		
Details						10				10		40										64	\$9,552		\$9,552		
Demo Plans						10				10		40										64	\$9,552		\$9,552		
Specifications						10				20												34	\$5,312		\$5,312		
Architectural Design and Drafting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	108	768	0	0	0	924	\$94,815	\$0	\$94,815	
Construction Documents																	48	108	768				924	\$94,815		\$94,815	
Process Design and Drafting	20	300	8	0	0	0	0	0	0	0	420	0	0	0	340	0	0	0	0	0	0	0	1088	\$169,340	\$0	\$169,340	
Facility Plan Views	4	40									60				60								164	\$25,780		\$25,780	
Section Views	4	40									60				60								164	\$25,780		\$25,780	
Details	4	40									60				60								164	\$25,780		\$25,780	
Chemical Room Layouts / Equipment Sizing (6 chemicals)	4	40	4								60				60								168	\$26,580		\$26,580	
Pumps and Internal Hydraulic Calculations	4	40									60				60								164	\$25,780		\$25,780	
Misc Coordination with other Disciplines		100									60				40								200	\$31,400		\$31,400	
Specifications			4								60												64	\$8,240		\$8,240	
Mechanical Design and Drafting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	150	0	250	\$29,400	\$0	\$29,400	
																				100	150		250	\$29,400		\$29,400	
																							0	\$0		\$0	
																							0	\$0		\$0	
Electrical Design and Drafting	0	16	0	0	0	0	190	0	120	0	0	0	0	200	0	0	0	0	0	0	0	0	526	\$65,888	\$0	\$65,888	
General Power		2					20		20					30									72	\$8,636		\$8,636	
Mechanical power plans		2					20		20					40									82	\$9,456		\$9,456	
Security System		2					30		20					40									92	\$11,136		\$11,136	
Process Power		2					30		20					30									82	\$10,316		\$10,316	
One-lines		2					30		20					20									72	\$9,496		\$9,496	
Details		2					30							20									52	\$7,016		\$7,016	
Misc. Coordination Items		2					30							20									52	\$7,016		\$7,016	
Specifications		2							20														22	\$2,816		\$2,816	
I&C Design and Drafting	0	0	0	0	0	0	0	280	0	0	0	0	0	120	0	0	0	0	0	0	0	0	400	\$56,880	\$0	\$56,880	
I&C Design for Bidding								280						120									400	\$56,880		\$56,880	
Milestone Meetings	20	20	4	4	4	4	8	8	0	0	8	0	0	0	0	35	0	20	0	0	0	0	135	\$19,671	\$7,388	\$27,059	
60% Design Meeting	4	4	4	4	4	4	4	4	4		4					10		4					50	\$7,473	\$2,194	\$9,667	
90% Design Meeting	4	4					4	4			4					10		4					34	\$4,737	\$2,194	\$6,931	
Planing Department Meeting	4	4														5		4					17	\$2,487	\$1,000	\$3,487	
Stake Holder Meeting	4	4														5		4					17	\$2,487	\$1,000	\$3,487	
Council Meeting (2 total)	4	4														5		4					17	\$2,487	\$1,000	\$3,487	
Bidding Phase	-	52	-	-	-	-	30	-	-	-	38	-	-	-	30	-	-	32	8	10	-	-	200	30,494	\$7,506	\$38,000	
Contractor Questions		20					15											32					67	\$10,080		\$10,080	
Addendums, Clarifications, Document Management		20					15				30				30				8	10			113	\$17,406	\$2,000	\$19,406	
Pre-Bid Meeting		4																					4	\$672		\$672	
Bid Opening		4																					4	\$672		\$672	
Contract Documents		4									8												12	\$1,664	\$5,506	\$7,170	
	76	620	34	164	103	150	268	308	120	140	762	410	180	320	590	59	48	398	1,201	207	300	80	6,538.00				
	\$ 16,720	\$ 104,160	\$ 6,800	\$ 24,272	\$ 17,304	\$ 25,200	\$ 45,024	\$ 51,744	\$ 14,880	\$ 20,720	\$ 94,488	\$ 58,630	\$ 25,740	\$ 26,240	\$ 105,610	\$ 4,838	\$ 7,680	\$ 49,750	\$ 108,090	\$ 33,120	\$ 24,000	\$ 16,000					
	Meyer	Vollmer	DeBoer, PhD	McKenzie	Klabo	Wilke	Hauptert	Pittman	Ruda	Geiger	Browen	Schmidt	Marohl	Smith	Leppala	Sluiter	Oertel	Stromsodt	Support	Wentz	Support	Survey Crew					