





# ATTACHMENT A

Wyatt Way Improvement Project: Final Engineering Design					6/7/2016			
Scope of Work								
<div><div>MIG</div><div>SvR</div></div>								
Task 1 - Project Management			Notes		Lead	MIG SvR hours	MIG SvR Subtask Fee	Lochner hours
1.1	Prepare monthly invoices and progress reports.	assumes 8 month duration		MIG SvR	20	\$ 2,280.00	-	
1.2	Check in with COBI PM weekly	30 minute phone call		MIG SvR	24	\$ 4,350.00	-	
1.3	Coordinate with Lochner, geotech, structural, arborist	2 hr/mo		MIG SvR	16	\$ 2,400.00	-	
1.4	Prepare and update project schedule	update schedule bimonthly		MIG SvR	6	\$ 900.00	-	
				Task Total	\$9,930.00			
Task 2 - 30% PS&Es			Notes		Lead			
2.1	Design Coordination with City			MIG SvR	16	\$ 2,900.00	8	
2.2	Site visit			MIG SvR	12	\$ 1,620.00	-	
2.3	Develop 30% PS&E documents			MIG SvR	144	\$ 18,660.00	26	
	- Cover sheet							
	- Typical Sections							
	- TESC, Site Preparation and Demolition Plans - Not included							
	- Storm Drainage Plan (4 sheets)							
	- Paving, Grading and Layout Plan and Profile (4 sheets)							
	- Madison Intersection Plan - Geomtric Layout	Lochner						
	- Madison Intersection Plan - ADA Analysis							
	- Grow Intersection Plan - ADA Analysis							
	- Lovell Intersection Plan - ADA Analysis							
	- Striping and Signage Plans (4 sheets)							
	- Landscape Plan - Not included							
	- Illumination Analysis	Lochner						
	- QA/QC Plan Review and Checklists							
	- Coordinate with subconsultant							
2.4	Construction cost estimate				16	\$ 2,360.00		
					188	\$25,540.00	34	
			MIG SvR Subtotal	\$25,540.00				
			Lochner Subtotal	\$5,547.00				
			Task Total	\$ 31,087.00				
Task 3 - 60% PS&Es			Notes		Lead			
3.1	Design Coordination with City			MIG SvR	28	\$ 4,500.00	8	
3.2	Site visit			MIG SvR	18	\$ 2,370.00		
3.3	Develop 60% PS&E documents			MIG SvR	407	\$ 53,065.00	66	
	- Cover sheet							
	- Notes sheet							
	- Alignment Plan and Tables							
	- Typical Sections							
	- Civil Details							
	- Landscape and Site Details							
	- TESC, Site Preparation and Demolition Plans (4 sheets)							
	- Storm Drainage Plan and Profile (4 sheets)							
	- Paving, Grading and Layout Plan and Profile (4 sheets)							
	- Madison Intersection Plan - Layout	Lochner						
	- Madison Intersection Plan - Grading	MIG SvR (Lochner support)						
	- Grow Intersection Plan - Grading							
	- Lovell Intersection Plan - Grading							
	- Striping and Signage Plans (4 sheets)							
	- Madison Intersection Plan - Striping and Signage	MIG SvR (Lochner support)						
	- Landscape Plant Schedule							
	- Landscape Plan (4 sheets)							
	- Irrigation point of connection							
	- Illumination Plans	Lochner						
	- QA/QC Plan Review and Checklists							
	- Coordinate with subconsultant							
3.4	Draft drainage report	Continuation of stormwater technical memo from planning phase		MIG SvR	38	\$ 4,830.00		
3.5	Construction cost estimate with bid items noted for special provisions			MIG SvR	22	\$ 3,050.00		
3.6	Respond to City comments			MIG SvR	8	\$ 995.00		
					521	\$68,810.00	74	
			MIG SvR Subtotal	\$68,810.00				
			Lochner Subtotal	\$10,729.00				
			Task Total	\$ 79,539.00				

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<b>Task 4 - 90% PS&amp;Es</b>		<b>Notes</b>	<b>Lead</b>				
4.1	Design Coordination with City		MIG SvR	14	\$	2,250.00	6
4.2	Site visit		MIG SvR	12	\$	1,470.00	
4.3	Develop 90% PS&E documents		MIG SvR	298	\$	38,690.00	52
	- Cover sheet						
	- Notes sheet						
	- Alignment Plan and Tables						
	- Typical Sections						
	- Civil Details						
	- Landscape and Site Details						
	- Work Zone Traffic Control	Lochner					
	- TESC, Site Preparation and Demolition Plans (4 sheets)						
	- Storm Drainage Plan and Profile (4 sheets)						
	- Paving, Grading and Layout Plan and Profile (4 sheets)						
	- Madison Intersection Plan - Layout	Lochner					
	- Madison Intersection Plan - Grading	MIG SvR (Lochner support)					
	- Grow Intersection Plan - Grading						
	- Lovell Intersection Plan - Grading						
	- Striping and Signage Plans (4 sheets)						
	- Madison Intersection Plan - Striping and Signage	MIG SvR (Lochner support)					
	- Landscape Plant Schedule						
	- Landscape Plan (4 sheets)						
	- Irrigation Plan (4 sheets)						
	- Illumination Plans	Lochner					
	- QA/QC Plan Review and Checklists						
	- Coordinate with subconsultant						
4.4	Final drainage report		MIG SvR	15	\$	1,935.00	
4.5	Draft technical special provisions			33	\$	4,275.00	
4.6	90% design construction cost estimate			22	\$	3,050.00	
4.7	Respond to City comments			9	\$	1,120.00	
				<b>403</b>		<b>\$52,790.00</b>	<b>58</b>
			MIG SvR Subtotal			\$52,790.00	
			Lochner Subtotal			\$7,588.00	
			<b>Task Total</b>		<b>\$</b>	<b>60,378.00</b>	
<b>Task 5 - Bid Set PS&amp;Es</b>		<b>Notes</b>	<b>Lead</b>				
5.1	Design Coordination with City		MIG SvR	8	\$	1,200.00	10
5.2	Develop Bid Set PS&E documents		MIG SvR	149	\$	20,467.50	10
	- Cover sheet						
	- Notes sheet						
	- Alignment Plan and Tables						
	- Typical Sections						
	- Civil Details						
	- Landscape and Site Details						
	- Work Zone Traffic Control	Lochner					
	- TESC, Site Preparation and Demolition Plans (4 sheets)						
	- Storm Drainage Plan and Profile (4 sheets)						
	- Paving, Grading and Layout Plan and Profile (4 sheets)						
	- Madison Intersection Plan - Layout	Lochner					
	- Madison Intersection Plan - Grading						
	- Grow Intersection Plan - Grading						
	- Lovell Intersection Plan - Grading						
	- Striping and Signage Plans (4 sheets)						
	- Madison Intersection Plan - Striping and Signage	MIG SvR (Lochner support)					
	- Landscape Plant Schedule						
	- Landscape Plan (4 sheets)						
	- Irrigation Plan (4 sheets)						
	- Illumination Plans	Lochner					
	- QA/QC Plan Review and Checklists						
	- Coordinate with subconsultant						
5.3	Technical special provisions			19	\$	2,515.00	
5.4	Bid set design construction cost estimate			17	\$	2,255.00	
5.5	Respond to City comments			5	\$	605.00	
				<b>198</b>		<b>\$27,042.50</b>	<b>20</b>
			MIG SvR Subtotal			\$27,050.00	
			Lochner Subtotal			\$3,297.00	
			<b>Task Total</b>		<b>\$</b>	<b>30,347.00</b>	

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<b>Task 6 - Permitting</b>		<b>Notes</b>		<b>Lead</b>			
6.1	SEPA Support			COBI	22	\$ 3,390.00	
6.2	General permit Coordination			COBI	20	\$ 3,500.00	
6.3	Section 106 SHPO Documentation			MIG	38	\$ 5,950.00	
			MIG SvR Subtotal			<b>\$12,840.00</b>	
			<b>Task Total</b>			<b>\$12,840.00</b>	<b>0</b>
<b>Task 7 - Right of Way Acquisition Support</b>		<b>Notes</b>		<b>Lead</b>			
7.1	Develop R/W Exhibits for Use by City			COBI	30	\$ 3,700.00	
7.2	Coordination with adjacent property owners	assumes 10 individual meetings/correspondance for impacted parcels; 30 min. prep, 1 hr. mtg, 30 min. follow up		COBI			
					20	\$ 3,000.00	
7.3	Coordination with Surveyor			MIG SvR	12	\$ 1,800.00	
					<b>62</b>	<b>\$8,500.00</b>	<b>0</b>
			MIG SvR Subtotal			\$8,500.00	
			<b>Task Total</b>			<b>\$8,500.00</b>	
<b>Task 8 - Bid Support</b>		<b>Notes</b>		<b>Lead</b>			
8.1	Respond to bidder questions			MIG SvR	6	\$ 1,150.00	4
8.2	Prepare addenda			MIG SvR	19	\$ 2,425.00	12
					<b>25</b>	<b>\$3,575.00</b>	<b>16</b>
			MIG SvR Subtotal			\$3,575.00	
			Lochner Subtotal			\$ 2,403.00	
			<b>Task Total</b>			<b>\$ 5,978.00</b>	
			<b>MIG SvR Total</b>			<b>\$209,030.00</b>	
			<b>Lochner (Subconsultant Expense)</b>			<b>\$32,530.00</b>	incl. 10% markup
			<b>GeoEngineers (Subconsultant Expense)</b>			<b>\$ 8,000.00</b>	incl. 10% markup
			<b>Swenson Say Faget (Subconsultant Expense)</b>			<b>\$ 4,400.00</b>	incl. 10% markup
			<b>Project Team Subtotal</b>			<b>\$ 253,960.00</b>	
			<b>Management Reserve</b>			<b>\$ -</b>	
			<b>Reimbursable Expenses (reprographics, travel, courier, office supplies, etc)</b>			<b>\$ 5,000.00</b>	
			<b>TOTAL</b>			<b>\$ 258,960.00</b>	
<b>Assumpti</b>							
Fee estimate based on the recommended alternative for a context sensitive corridor design, mini-roundabout at Madison Avenue and all-way stop control at Grow Avenue							
Grow Avenue intersection to be regarded to provide ADA accessible crosswalks; Lovell Avenue intersction assumes MEF documentation							
Water quality required. Flow control not required.							
Existing pavement, curb and sidewalk to remain along the Grow Development							
R/W determination to be finalized this phase; Survey from previous contract includes R/W exhibits and legal descriptions							
Arborist work to be completed under previous contract, with additional coordination during final engineering							
GeoEngineers scope to include subsurface explorations (using hand tools) and develop recommendations for pavement and retaining wall design, as well as recommendations for infiltration, if feasible.							
Swenson Say Faget scope to include structural details as needed for final design (e.g. potential for 4+ retaining wall and guardrail at existing car wash property (499 Madison Ave N)							
30% design is limited to sheets shown with goal to provide a 30% estimate of probable construction costs for project budgeting							
Assumes no cultural resources (pre-historic, historic, or historic buildins, structures, or features) found. If research turns up otherwise additional fee will be needed to evaluate found cultural resources.							