

## MSR

## Olbrich Botanical Gardens - Expansion Phase 1

## Design Contract 8717 - Amendment #1.

23-Mar-18

Item	Work Description	Staff / Consultant Name	Hourly Rate	Hours	Total	Phases Applied			Sub-Total	Grand Total
						DD	CD	CA		
<b>1.0</b>	<b>Utility provision to greenhouse beyond base provisions</b>									
1.1	Adding domestic hot water design and documentation for propagation tables, and natural gas for propagation table hot water boiler (mechanical and plumbing systems).	MEP Associates			\$ 14,900.00	\$ 5,960.00	\$ 7,450.00	\$ 1,490.00		
					<b>SUB-TOTALS</b>	\$ 5,960.00	\$ 7,450.00	\$ 1,490.00	\$ 14,900.00	
<b>2.0</b>	<b>Sprinkler scope expansion to existing lobby</b>									
2.1	Existing conditions survey and sprinkler pipe routing determination, incl. process management.	Stephen Bellairs	\$ 180.00	4	\$ 720.00	\$ 720.00				
2.2	Existing ceiling conditions modeling in Revit	Ben Schwarz	\$ 93.00	24	\$ 2,232.00	\$ 2,232.00				
2.3	New ceiling tile specification	Brendan Sapienza	\$ 135.75	2	\$ 271.50	\$ 271.50				
2.4	Sections and details to describe scope	Ben Schwarz	\$ 93.00	12	\$ 1,116.00		\$ 1,116.00			
2.5	Sprinkler system design, incl. FDC near entry.	Summit	\$ 130.00	12	\$ 1,560.00	\$ 780.00	\$ 780.00			
2.6	Fire Alarm system expansion to lobby	MEP			\$ 2,200.00	\$ 880.00	\$ 1,100.00	\$ 220.00		
					<b>SUB-TOTALS</b>	\$ 4,883.50	\$ 2,996.00	\$ 220.00	\$ 8,099.50	
<b>3.0</b>	<b>Fire wall at Headhouse to Greenhouse link</b>									
3.1	Fire code analysis work to determine most economical and code compliant direction, with City input.	Brendan Sapienza	\$ 135.75	18	\$ 2,443.50	\$ 2,443.50				
3.2	Fire code option studies by Summit.	Summit	\$ 130.00	8	\$ 1,040.00	\$ 1,040.00				
3.3	Coordination with City, Fire Department, including preparing review documents, webex review, etc.	Stephen Bellairs	\$ 180.00	4	\$ 720.00	\$ 720.00				
3.4	Coordination with edge of greenhouse link corridor, including detailing.	Brendan Sapienza	\$ 135.75	8	\$ 1,086.00	\$ 814.50	\$ 271.50			
3.5	Plans, sections, elevations and specification of aspects not originally included in scope	Ben Schwarz	\$ 93.00	24	\$ 2,232.00	\$ 2,232.00				
3.6	Structural engineering of roof and fire wall, including new door opening head height.	IMEG Structural Engineering			\$ 5,000.00	\$ 1,250.00	\$ 2,500.00	\$ 1,250.00		
					<b>SUB-TOTALS</b>	\$ 8,500.00	\$ 2,771.50	\$ 1,250.00	\$ 12,521.50	
<b>4.0</b>	<b>Smoke doors at Atrium pedestrian link</b>									
4.1	Code analysis work by MSR and Summit	Brendan Sapienza	\$ 135.75	12	\$ 1,629.00	\$ 1,221.75	\$ 407.25			
4.2	Door type and detail development including hardware sets.	Brendan Sapienza	\$ 135.75	8	\$ 1,086.00	\$ 814.50	\$ 271.50			
4.3	Sections and elevations to provide layout and context	Ben Schwarz	\$ 93.00	6	\$ 558.00		\$ 558.00			
4.4	Electrical Engineer design for electromagnetic hold-open devices.	MEP Associates	\$ 120.00	4	\$ 480.00	\$ 192.00	\$ 240.00	\$ 48.00		
					<b>SUB-TOTALS</b>	\$ 2,228.25	\$ 1,476.75	\$ 48.00	\$ 3,753.00	
<b>5.0</b>	<b>Structural system options and design due to existing soil conditions.</b>									
5.1	Helical Pile foundation system design for Learning Center	IMEG Structural Engineering			\$ 11,000.00		\$ 11,000.00			
5.2	Helical Pile foundation system design for Greenhouse	IMEG Structural Engineering			\$ 6,000.00		\$ 6,000.00			
5.3	Meeting and coordination management	Stephen Bellairs	\$ 180.00	8	\$ 1,440.00	\$ 360.00	\$ 1,080.00			
5.4	Documentation including options for pricing and structural and civil input.	Chris Wingate	\$ 96.00	12	\$ 1,152.00	\$ 192.00	\$ 960.00			
5.5	Documentation including options for pricing and structural and civil input.	Brendan Sapienza	\$ 135.75	4	\$ 543.00		\$ 543.00			
					<b>SUB-TOTALS</b>	\$ 552.00	\$ 19,583.00	\$ -	\$ 20,135.00	
<b>6.0</b>	<b>Stormwater management scope and coordination</b>									
6.1	Meeting number increase from proposal stage to actual meetings (3 extra meetings and 5 extra conf calls)	Vierbicher			\$ 3,900.00	\$ 3,900.00				
6.2	Credit for PD Phase (actual amount is -\$3,850, rounded to -\$3,900 for this matrix.)				\$ (3,900.00)	\$ (3,900.00)				
6.3	Existing Utility line location and coordination beyond scope identified at proposal stage.	Vierbicher			\$ 1,650.00	\$ 1,650.00				
6.4	Stormwater management scope and site plan updates in relation to scope identified at proposal stage, incl. site plan submission with SWM permit application.	Vierbicher			\$ 7,400.00	\$ 1,850.00	\$ 5,550.00			
					<b>SUB-TOTALS</b>	\$ 3,500.00	\$ 5,550.00	\$ -	\$ 9,050.00	

<b>7.0 Rainwater cistern development</b>										
7.1	Irrigation Consultant for pump skid and system design from end of Civils scope to irrigation pipe connection to existing irrigation pipe in gardens.	FRS Design Group			\$ 2,500.00	\$ 1,125.00	\$ 875.00	\$ 500.00		
7.2	Structural design of cistern tank as part of Learning Center foundation design (completed 35% of previous \$7,600 scope at end of DD, and remainder now included with foundation design below).	IMEG Structural Engineering			\$ 2,700.00	\$ 2,700.00				
7.3	Providing cistern power associated with pumping, level alarms, controls, tec.	MEP Associates	\$ 120.00	4	\$ 480.00	\$ 192.00	\$ 240.00	\$ 48.00		
7.4	MSR time for managing, coordinating consultant efforts above.	Stephen Bellairs	\$ 180.00	6	\$ 1,080.00	\$ 864.00	\$ 216.00			
7.5	MSR time for managing, coordinating consultant efforts above, and incorporating the cistern into documents.	Chris Wingate	\$ 96.00	24	\$ 2,304.00	\$ 1,843.20	\$ 460.80			
7.6	Coordination and general technical input/advice	Brendan Sapienza	\$ 135.75	4	\$ 543.00	\$ 543.00				
7.7	Irrigation system design per City request Jan 24, 2018.	FRS Design Group			\$ 2,350.00		\$ 850.00	\$ 1,500.00		
7.8	Stormwater lifting station design	Vierbicher			\$ 5,600.00		\$ 5,600.00			
7.9	KSD coordination with quick connect locations and details, incl. extra meeting/s.	Ken Saiki Design			\$ 3,000.00		\$ 3,000.00			
<b>SUB-TOTALS</b>						\$ 7,267.20	\$ 11,241.80	\$ 2,048.00	\$ 20,557.00	
<b>8.0</b>						<b>GRAND TOTALS</b>	\$ 32,890.95	\$ 51,069.05	\$ 5,056.00	\$ 89,016.00