

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		
1.0	Utility provision to greenhouse beyond base provisions									
	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		
	SUB-TOTALS					\$ 5,960.00	\$ 7,450.00	\$ 1,490.00	\$ 14,900.00	
2.0	Sprinkler scope expansion to existing lobby									
	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		
	SUB-TOTALS					\$ 4,883.50	\$ 2,996.00	\$ 220.00	\$ 8,099.50	
3.0	Fire wall at Headhouse to Greenhouse link									
	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		
	SUB-TOTALS					\$ 8,500.00	\$ 2,771.50	\$ 1,250.00	\$ 12,521.50	
4.0	Smoke doors at Atrium pedestrian link									
	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		
	SUB-TOTALS					\$ 2,228.25	\$ 1,476.75	\$ 48.00	\$ 3,753.00	
5.0	Structural system options and design due to existing soil conditions.									
	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			
	SUB-TOTALS					\$ 552.00	\$ 19,583.00	\$ -	\$ 20,135.00	
6.0	Stormwater management scope and coordination									
	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			
	SUB-TOTALS					\$ 3,500.00	\$ 5,550.00	\$ -	\$ 9,050.00	

7.0 Rainwater cistern development									
7.1 Irrigation Consultant for pump skid and system design from end of Civils scope to irrigation pipe connection to existing irrigaiton 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 pumbing, 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			
SUB-TOTALS						\$ 7,267.20	\$ 11,241.80	\$ 2,048.00	\$ 20,557.00
8.0	GRAND TOTALS					\$ 32,890.95	\$ 51,069.05	\$ 5,056.00	\$ 89,016.00