

Fee Summary and Timeline for Design Phase Services		
Project Name: CoSA - HOWARD W PEAK GREENWAY TRAILS SYSTEM ADDITIONAL SERVICES - ROGERS RANCH SEGMENT		
Date: APRIL 14, 2016		
Activity	Timeline in Calendar Days	Fee
Engineering Services Phase - Project Initiation		
1. Bain Medina Bain, Inc.		\$ 40,183.50
2. Landscape Subconsultant		\$ 833.00
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Engineering Services Phase Project Initiation Subtotal		\$ 41,016.50
Schematic Design Phase		
	90	
1. Bain Medina Bain, Inc.		\$ 54,236.00
2. Landscape Subconsultant		\$ 4,352.00
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Schematic Design Phase Subtotal		\$ 58,588.00
Construction Document Basic Services		
	90	
1. Bain Medina Bain, Inc.		\$ 25,288.00
2. Landscape Subconsultant		\$ -
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Construction Document Basic Services		\$ 25,288.00
Construction Drawing Submittals 50% Design Phase Services		
	90	
1. Bain Medina Bain, Inc.		\$ 52,431.00
2. Landscape Subconsultant		\$ 8,588.00
3. Structural Subconsultant		\$ 7,798.28
4. MEP Subconsultant		\$ 5,000.00
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Construction Drawing Submittals 50% Design Phase Services		\$ 73,817.28
Construction Drawing Submittals 95% Design Phase Services		
	90	
1. Bain Medina Bain, Inc.		\$ 37,992.50
2. Landscape Subconsultant		\$ 6,637.00
3. Structural Subconsultant		\$ 2,546.56
4. MEP Subconsultant		\$ 7,700.00
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Construction Drawing Submittals 95% Design Phase Subtotal		\$ 54,876.06
Construction Drawing Final Submittal Phase Services		
	30	
1. Bain Medina Bain, Inc.		\$ 13,370.00
2. Landscape Subconsultant		\$ -
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Construction Drawing Final Submittal Phase Subtotal		\$ 13,370.00
Construction Drawing Bidding Submittal Phase Services		
	365	
1. Bain Medina Bain, Inc.		\$ 13,612.00
2. Landscape Subconsultant		\$ 1,340.00
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Construction Drawing Bidding Submittal Phase Subtotal		\$ 14,952.00
Construction Phase		
	365	
1. Bain Medina Bain, Inc.		\$ 16,773.00
2. Landscape Subconsultant		\$ 3,685.00
3. Structural Subconsultant		\$ 3,135.00
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -

Construction Phase Subtotal		\$ 23,593.00
Evaluation of the Work		
1. Bain Medina Bain, Inc.		\$ 38,376.00
2. Landscape Subconsultant		\$ -
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Evaluation of the Work Subtotal		\$ 38,376.00
Substantial Project Completion Phase		
1. Bain Medina Bain, Inc.		\$ 15,198.50
2. Landscape Subconsultant		\$ -
3. Structural Subconsultant		\$ -
4. MEP Subconsultant		\$ -
5. Environmental & Archaeological Engineering Subconsultant		\$ -
6. Geotechnical Subconsultant		\$ -
Substantial Project Completion Phase Subtotal		\$ 15,198.50
Additional Subconsultant Participation Services		
1. Environmental & Archaeological Engineering Subconsultant		\$ 58,799.64
2. Geotechnical Subconsultant		\$ 6,750.00
Additional Subconsultant Participation Services Subtotal		\$ 65,549.64
Additional Services		
1. Bain Medina Bain, Inc.		
a. Drainage Study		\$ 14,553.00
b. Stormwater Management Report		\$ 7,942.00
Additional Services Subtotal		\$ 22,495.00
Additional Services - Water Pollution Abatement Plan		
1. Landscape Subconsultant		\$ 40,650.00
Additional Services WPAP Subtotal		\$ 40,650.00
Surveying Services		
1. Bain Medina Bain, Inc.		\$ 108,564.00
Surveying Services Subtotal		\$ 108,564.00
BMB Subtotal		\$ 438,519.50
Subconsultant Participation		
Structural Subconsultant		\$ 13,479.84
Landscape Subconsultant		\$ 66,085.00
MEP Subconsultant		\$ 12,700.00
Environmental & Archaeological		\$ 58,799.64
Geotechnical Subconsultant		\$ 6,750.00
Subconsultant Subtotal		\$ 157,814.48
SUBTOTAL FEE		\$ 596,333.98
PRINTING & MISCELLANEOUS		\$ 10,556.02
TOTAL		\$ 606,890.00
Additional Survey Services For Easements		
A Easements - Roger's Ranch		\$ 5,846.00
B Easements - Salado North		\$ 7,264.00
Additional Survey Services		\$ 13,110.00
GRAND TOTAL		\$ 620,000.00

HOWARD W PEAK (GREENWAY TRAILS) PROGRAM - ROGERS RANCH SEGMENT
ESTIMATED LEVEL OF EFFORT 03/02/16
ADDITIONAL SERVICES - APRIL 14, 2016

POSITION DESCRIPTION	Project Manager	Project Engineer	Designer EIT	CADD Tech II	Admin	Project Surveyor	Survey Tech	Abstractor	Survey Crew 3-Person	Total Labor hrs.	Cost
BILLABLE LABOR RATES	\$170.00	\$130.00	\$99.00	\$91.00	\$65.00	\$140.00	\$88.00	\$80.00	\$200.00		
Subconsultant Participation - Additional Services											
a. Structural Subconsultant											
b. Landscape Subconsultant											
c. MEP Subconsultant											
d. Environmental and Cultural Resources Services (See Attached Proposal dated January 15, 2016)											\$ 58,799.64
e. Geotechnical Engineering Services (See Attached Proposal dated February 25, 2016)											\$ 6,750.00
SUBCONSULTANT SUBTOTAL											\$65,549.64
TOTAL											
BMB ADDITIONAL SERVICES											
A) DRAINAGE STUDY											
1. Gather existing studies for Salado Creek Crossings, topography, and meet with City of San Antonio (COSA)		4.0	8.0							12.0	\$ 1,312.00
2. Review SARA hydrologic computations for existing and ultimate conditions	2.0	4.0	8.0							14.0	\$ 1,652.00
3. Review SARA hydraulic computations for existing and ultimate conditions	2.0	4.0	8.0							14.0	\$ 1,652.00
4. Revise SARA hydraulics to include trail crossings	2.0	8.0	8.0							18.0	\$ 2,172.00
5. Provide the City of San Antonio with digital files of hydrologic and hydraulic models		2.0	8.0	2.0	2.0					14.0	\$ 1,364.00
6. Prepare a map with existing and ultimate floodplain based on existing site topography and proposed site topography	2.0	4.0	8.0	4.0						18.0	\$ 2,016.00
7. Provide items required to satisfy City of San Antonio regulatory requirements		4.0	8.0							12.0	\$ 1,312.00
8. Prepare and submit complete study following City of San Antonio requirements to City	0.5	4.0	8.0		2.0					14.5	\$ 1,527.00
9. Revise reports per comments and resubmit		2.0	8.0	4.0	2.0					16.0	\$ 1,546.00
Subtotal Cost:											\$ 14,553.00
B) STORMWATER MANAGEMENT REPORT											
1. Meet with City Drainage Department	2.0	2.0	2.0							6.0	\$ 798.00
2. Determine & verify hydrology for the site and for downstream of the site based on existing conditions and developed conditions	2.0	4.0	8.0	4.0						18.0	\$ 2,016.00
3. Determine if increase runoff significantly affects downstream conditions		4.0	8.0							12.0	\$ 1,312.00
4. Prepare report and calculate appropriate fees if required	1.0	4.0	8.0	4.0	4.0					21.0	\$ 2,106.00
5. Prepare a Storm Water Participation form		0.5	1.0							1.5	\$ 164.00
6. Submit report to the City of San Antonio		0.5	4.0	2.0	2.0					8.5	\$ 773.00
7. Revise report per comments and resubmit		0.5	4.0	2.0	2.0					8.5	\$ 773.00
Subtotal Cost:											\$ 7,942.00
SUMMARY - BMB ADDITIONAL SERVICES											
HOURS SUB-TOTALS	13.50	51.50	107.00	22.00	14.00	0.00	0.00	0.00	0.00		
BILLABLE RATE PER HOUR (LABOR BURDEN & OVERHEAD)	\$170.00	\$130.00	\$99.00	\$91.00	\$65.00	\$140.00	\$88.00	\$80.00	\$200.00		
TOTAL	\$2,295.00	\$6,695.00	\$10,593.00	\$2,002.00	\$910.00	\$0.00	\$0.00	\$0.00	\$0.00		\$ 22,495.00
WATER POLLUTION ABATEMENT PLAN (WPAP) & STORMWATER POLLUTION PREVENTION PLAN (SWPPD)											
Subconsultant Participation											
a. Structural Subconsultant											
b. Landscape Subconsultant											\$ 40,650.00
c. MEP Subconsultant											
d. Environmental & Archaeological Engineering Subconsultant											
e. Geotechnical Subconsultant											
SUBCONSULTANT SUBTOTAL											\$ 40,650.00
TOTAL											\$ 40,650.00
BMB Surveying Services											
PHASE 1 - ROGERS RANCH											
A) MOBILIZATION											
1) Gathering Maps, Plats, Surveys, Meta Data						8.0		24.0		32.0	\$ 3,040.00
Subtotal Cost:											\$ 3,040.00
B) PROJECT CONTROL:											
1) Establish Primary Control - Horizontal						4.0	18.0		24.0	46.0	\$ 6,944.00
2) Establish Primary Control - Vertical (Level Loops)						4.0	20.0		32.0	56.0	\$ 8,720.00
3) Set Secondary Control						4.0	18.0		24.0	46.0	\$ 6,944.00
Subtotal Cost:											\$ 22,608.00
C) RESEARCH											
1) Utilities, Right-of-Way, Ownership (Public and Private)						8.0	20.0	40.0		68.0	\$ 6,080.00
Subtotal Cost:											\$ 6,080.00
D) FIELD SURVEY											
1) On-the-ground Traverse						4.0	12.0		40.0	56.0	\$ 9,616.00
2) Set Preliminary Alignment - Topo, Tree, Utility						4.0	24.0		100.0	128.0	\$ 22,672.00
3) Set Preliminary Alignment - Boundary and Improvements						8.0	18.0		24.0	50.0	\$ 7,504.00
Subtotal Cost:											\$ 39,792.00
E) CADD AND ANALYSIS											
1) From Control ties set boundaries: showing road right-of-ways, and Adjoiner Boundaries				80.0		12.0				92.0	\$ 8,960.00
2) Add Utilities Locations from field ties & record locations				40.0		8.0				48.0	\$ 4,760.00
3) Add topographic features, trees, fences, etc.				80.0		8.0				88.0	\$ 8,400.00
4) Field check survey				20.0		16.0				36.0	\$ 4,060.00
5) Create Control Point Sheet with description, northing, easting & elevations				20.0		4.0				24.0	\$ 2,380.00
Subtotal Cost:											\$ 28,560.00
F) QUALITY ASSURANCE - QUALITY CONTROL											
1) Quality Assurance/Quality Control				24.0		16.0				40.0	\$ 4,424.00
2) Respond to comments				20.0		16.0				36.0	\$ 4,060.00
Subtotal Cost:											\$ 8,484.00
BMB Surveying Services Cost - PHASE 1:											
											\$ 108,564.00
SUMMARY - SURVEYING SERVICES											
HOURS SUB-TOTALS	0.0	0.0	0.0	284.0	0.0	124.0	130.0	64.0	244.0		
BILLABLE RATE PER HOUR (LABOR BURDEN & OVERHEAD)	\$170.00	\$130.00	\$99.00	\$91.00	\$65.00	\$140.00	\$88.00	\$80.00	\$200.00		
TOTAL	\$0.00	\$0.00	\$0.00	\$25,844.00	\$0.00	\$17,360.00	\$11,440.00	\$5,120.00	\$48,800.00		\$108,564.00
SUMMARY											
BMB TOTAL HOURS	438.50	776.00	899.50	759.00	255.00	164.00	130.00	65.00	244.00		
BILLABLE RATE PER HOUR (LABOR BURDEN & OVERHEAD)	\$ 170.00	\$ 130.00	\$ 99.00	\$ 91.00	\$ 65.00	\$ 140.00	\$ 88.00	\$ 80.00	\$ 200.00		
SUBTOTAL BMB ENGINEERING & SURVEYING FEE	\$74,545.00	\$100,880.00	\$89,050.50	\$69,069.00	\$16,575.00	\$22,960.00	\$11,440.00	\$5,200.00	\$48,800.00		\$ 438,519.50
SUBCONSULTANT PARTICIPATION											
Structural Subconsultant											\$13,479.84
Landscape Subconsultant											\$66,085.00
MEP Subconsultant											\$12,700.00
Environmental & Archaeological Engineering Subconsultant											\$58,799.64
Geotechnical Subconsultant											\$6,750.00
SUBTOTAL SUBCONSULTANT PARTICIPATION											\$ 157,814.48
SUBTOTAL											\$ 596,333.98
PRINTING AND MISCELLANEOUS											
											\$ 10,556.02
Grand Total											\$ 606,890.00
ADDITIONAL SURVEY SERVICES FOR EASEMENTS											
ROGERS RANCH EASEMENTS											
G) A EASEMENTS - ROGERS RANCH											
1. Recover and verify existing horizontal & vertical control points						1	2		2	5.0	\$ 716.00
2. Research property owners and adjoiners				2		4		4		10.0	\$ 1,062.00
3. Recover sufficient boundary monuments to establish location of property lines							4		4	8.0	\$ 1,152.00
4. Prepare easement plat & metes and bounds description (up to 9 easements)				4		8			4	12.0	\$ 1,484.00
5. Set iron rods at easement corners (at entry and exit plus every 400', est. 120 monuments)						2	4		4	10.0	\$ 1,432.00
Subtotal Cost:											\$ 5,846.00
BMB Surveying Services Cost - PHASE 2:											
											\$ 5,846.00
SALADO NORTH EASEMENTS											
H) B EASEMENTS - SALADO NORTH											
1. Recover and verify existing horizontal & vertical control points							4		4	8.0	\$ 1,152.00
2. Research property owners and adjoiners				4		4		4		12.0	\$ 1,244.00
3. Recover sufficient boundary monuments to establish location of property lines							4		4	8.0	\$ 1,152.00
4. Prepare easement plat & metes and bounds description (up to 4 easements)				4		8			4	12.0	\$ 1,484.00
5. Set iron rods at easement corners(at entry and exit plus every 400', est. 80 monuments)						2	4		8	14.0	\$ 2,232.00
Subtotal Cost:											\$ 7,264.00
BMB Surveying Services Cost - PHASE 3:											
											\$ 7,264.00
SUMMARY - ADDITIONAL SURVEY SERVICES											
HOURS SUB-TOTALS	0	0	0	14	0	29	22	8	26		
BILLABLE RATE PER HOUR (LABOR BURDEN & OVERHEAD)	\$ 170.00	\$ 130.00	\$ 99.00	\$ 91.00	\$ 65.00	\$ 140.00	\$ 88.00	\$ 80.00	\$ 200.00		
TOTAL	\$ -	\$ -	\$ -	\$ 1,274.00	\$ -	\$ 4,060.00	\$ 1,936.00	\$ 640.00	\$ 5,200.00		\$ 13,110.00
GRAND TOTAL											
											\$ 620,000.00