

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

705A



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
December 30, 2009

SUBJECT: Amendment No. 2 to the Engineering Services and Environmental Services Agreement for constructing a new bridge on Miles Avenue and Whitewater River and widening Miles Avenue and Clinton Street to provide additional lanes. The project is located in the Indio area of the Coachella Valley.

RECOMMENDED MOTION: That the Board approve Amendment No. 2 to the Engineering Services Agreement between the County of Riverside and RBF Consulting and authorize the Chairman of the Board to execute the same.

BACKGROUND: On July 30, 2001, the Board executed an agreement with RBF Consulting to provide engineering and environmental services for constructing a new bridge on Miles Avenue at Whitewater River and providing additional lanes on Miles Avenue and Clinton Street. This agreement was amended on July 3, 2007, to add services required to complete a Bridge

Juan C. Perez
Director of Transportation

Departmental Concurrence

(Continued On Attached Pages)

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 366,210	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2009/10
SOURCE OF FUNDS: CVAG TUMF(100%)				Positions To Be Deleted Per A-30 <input type="checkbox"/>
				Requires 4/5 Vote <input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY:
Alex Gann

County Executive Office Signature

Prev. Agn. Ref. 7/24/01 (3.23), 7/03/07 (3.35) | District: 4 | Agenda Number:

3.44

FORM APPROVED COUNTY COUNSEL
BY:
NEAL R. KIPNIS
DATE

Policy Policy

Consent Consent

Dept't Recomm.:
Per Exec. Ofc.:

The Honorable Board of Supervisors

RE: Amendment No. 2 to the Engineering Services and Environmental Services Agreement for constructing a new bridge on Miles Avenue and Whitewater River and widening Miles Avenue and Clinton Street to provide additional lanes. The project is located in the Indio area of the Coachella Valley.

December 30, 2009

Page 2 of 3

Hydraulics Study requested by Coachella Valley Water District (CVWD) and to prepare the legal and plats for the right of way acquisition needed for the widening on Miles Avenue and Clinton Street.

Due to the timeframe necessary to acquire the needed property for construction and to significantly reduce construction cost and accelerate construction of the project, the project was separated into three phases in order to get some improvements on the ground quickly.

Phase I widened Miles Avenue to four lanes and replaced an existing low water crossing at the Whitewater River with a bridge. Phase 2A widened Miles Avenue between Madison Street and Clinton Street to four lanes and constructed curb, gutter, sidewalk and storm drain improvements within the existing right of way. The construction of both of these phases has been completed.

Phase 2B will widen Clinton Street between Miles Avenue and Fred Waring Drive to four lanes and construct curb, gutter, sidewalk, and storm drain improvements. These improvements will commence in Summer 2010.

This Amendment No. 2 is being processed to provide contract changes to the design and the bid and construction support work that is necessary to complete the project. A detailed description of the additional services and the budget for each are included in Attachment "A" and "B" of the amendment. The primary factors included in this contract amendment are:

- Separating the project into three phases which required revisions to the street improvement plans, signing and striping plans, signal plans, and the engineer's estimate. In addition, three separate special provision packages will be required.
- At the request of the City of Indio, the storm drain system was extended approximately 2300 feet on Miles Ave to pick up nuisance water and smaller rain events. In addition, the City of Indio requested that the storm drain line be upsized and the invert slopes be modified to accommodate future connections on Clinton Street. Also, to avoid construction conflicts with an existing sewer line, the Clinton Street storm drain line was redesigned and relocated closer to the westerly curb.
- During the design of Phase 2A, it was determined that the project would be in conflict with the Boe Del Heights Mutual Water Company waterline. Due to a hardship request from the Boe Del Heights Mutual Water Company, water improvement plans were prepared on behalf of the Boe Del Heights Mutual Water Company.
- Provide utility potholing and a utility exhibit for the underground utility lines that will be crossed by storm drain lines along both Miles Avenue and Clinton Avenue.
- Preparation of a bridge railing study and revisions to the bridge railing plans to provide additional light blocking characteristics.

The Honorable Board of Supervisors

RE: Amendment No. 2 to the Engineering Services and Environmental Services Agreement for constructing a new bridge on Miles Avenue and Whitewater River and widening Miles Avenue and Clinton Street to provide additional lanes. The project is located in the Indio area of the Coachella Valley.

December 30, 2009

Page 3 of 3

- Provide additional bid and construction support time as needed in each of the three phases of construction.

The cost proposal negotiated by the County staff with the consultant is for \$366,210.39.

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

AMENDMENT NO. 2

AMENDMENT TO AGREEMENT BETWEEN

THE COUNTY OF RIVERSIDE

RBF CONSULTING

THIS AMENDMENT NO. 2 (hereinafter the "Amendment") to an agreement is made and entered into as of this _____ day of _____, 2009, by and between the County of Riverside, a political subdivision of the State of California (hereinafter the "COUNTY"); and RBF Consulting (hereinafter "ENGINEER").

RECITALS

- A. COUNTY and ENGINEER have entered into an agreement entitled "Engineering Services Agreement for Miles Avenue and Clinton Street Improvements - Transportation Department and RBF Consulting that is dated July 30, 2001 (hereinafter the "Agreement") and the Amendment to the Agreement between the COUNTY and CONSULTANT that is dated July 3, 2007 (hereinafter the "Agreement"). The Agreement provides the terms and conditions, scope of work, schedule, and budget for preliminary design and the preparation of the environmental document, plans, specifications, estimates and bid and construction support.
- B. The scope of the amended agreement consisted of preparing the preparation of plans, specification, and estimates (PS&E), bid support, and construction support for the construction of a new bridge on Miles Ave overcrossing the Whitewater River, road improvements for Miles Avenue and Clinton Street. The level of effort and length of time needed for the plan preparation has significantly exceeded the terms of the agreement as a result of changes in criteria.
- C. The parties desire to amend the Agreement to modify the scope of service to be provided by the ENGINEER and increase the contract budget.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the parties agree as follows:

1. Appendix A is amended to provide the additional services as described in Attachment "A" (Scope of Services).
2. Appendix B • Article BI is amended to extend the termination of the Agreement from December 1, 2010 to December 1, 2013.

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29


3. Appendix C, Article CV as shown in Attachment "B" is amended by increasing the current total contract budget by \$336,210.39 from \$1,383,041.26 to \$1,719,215.65 as provided below:
- Phase II budget is amended by increasing the amount by \$265,216.65 from \$704,612.26 to \$969,828.91
 - Phase III budget is amended by increasing the amount by \$70,993.74 from \$42,481.19 to \$113,474.93
 - The overall budget is amended to provide a contingency in the amount of \$30,0000
4. Except to the extent specifically modified or amended hereunder, all of the terms, covenants, and conditions of the Agreement as approved on July 30, 2001, shall remain in full force and effect between the parties hereto.

////

ARTICLE VIII • APPROVALS

COUNTY Approvals

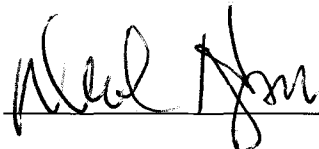
RECOMMENDED FOR APPROVAL:

 Dated: 12/22/09

JUAN C. PEREZ

Director of Transportation

APPROVED AS TO FORM:

 Dated: 1/5/10

PAMELA J. WALLS

County Counsel

APPROVAL BY THE BOARD OF SUPERVISORS

_____ Dated: _____

PRINTED NAME

Chairman, Riverside County Board of Supervisors

ATTEST:


_____ Dated: _____

KECIA HARPER-IHEM

Clerk to the Board

ENGINEER Approvals

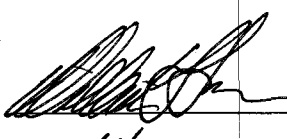
ENGINEER:

 Dated: 10/8/09

BRADLEY R. MIELKE
PRINTED NAME

Senior Vice President
TITLE

ENGINEER:

 Dated: 10/8/09

William L. Green
PRINTED NAME

Sr. Vice President
TITLE

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

ATTACHMENT A – SCOPE OF SERVICES

A. Revisions to the Street Improvement Plans to Accommodate 3 Phases

To accelerate the construction of the project, the project was separated into three phases. Phase 1 includes the widening of Miles Avenue and replacing the low water crossing at the Whitewater River with a bridge. Phase 2A will reconstruct and widen Miles Avenue from Madison Street to Clinton Street. Phase 2B will reconstruct and widen Clinton Street from Miles Avenue to Fred Waring Drive. Modifications to the existing plans are required to separate the project into three phases. The phasing of the project will require revisions to the street improvement and signing/stripping plans. This additional scope of work requires:

- Staff time for revising of the Street Improvement Plans.
- Staff time to coordinate with the City of Indio and County for the acceptance of the plans.
- Staff time to coordination with utility companies on phasing the utility relocation plans.
- Staff time to address any comments from the City of Indio and County.

B. Preparation of Specifications

Separating the project into 3 phases will require the development and review of two additional project specifications. It is anticipated that the County will develop the front end documents and County's general special provisions for the overall bid package with the Consultant reviewing the County's general special provisions and providing additional specifications as necessary. This additional scope of work requires:

- Staff time to review and prepare special provisions.

C. Preparation for Engineer's Construction Cost Estimates and Quantities

Separating the project into 3 phases will require calculations of construction quantities and development of an estimate of probable construction costs for each project phase. Deliverables will include providing estimated construction quantities and development of probable construction cost estimates for each phase of the project. This additional scope of work requires:

- Staff time to calculate quantities and prepare Engineer's Construction Cost Estimates.

1 **D. Preparation of Storm Drain Plans for Miles Avenue**

2 The original agreement included the preparation of the design of a storm drain system along Clinton Street.
3 After the completion of the design of the storm drain system, the City of Indio requested that the storm drain
4 system to be extended approximately 2,300 feet on Miles Avenue to pick up nuisance water and smaller rain
5 events. This additional scope of work requires:

- 6 • Staff time for the preparation of plan sheets
7 • Staff time to coordinate with the City of Indio and County for the acceptance of the plans

8
9 **E. Revisions to the Clinton Street Storm Drain Plans**

10 Following the completion of the hydrology study, the City of Indio requested that the Clinton Street storm drain
11 line be upsized and revision be made to the invert slope to accommodate future connections to the line south
12 of the project limits. In addition, to reduce the potential impacts with the sewer mainline during the
13 construction of the storm drain, approximately 2700 lineal feet of the storm drain line will need to be shifted to
14 the west side of Clinton Street, closer to the curb and gutter. As a result of this relocation, additional
15 coordination will be necessary with utility companies on resolution of facility impacts. The vertical and
16 horizontal realignment of the storm drain line will also require the redesign of 17 lateral connections. This
17 additional scope of work requires:

- 18 • Staff time for revising of the storm drain line.
19 • Staff time to coordinate with the City of Indio and County for the acceptance of the plans.

20
21
22 **F. Preparation of Horizontal Control Plan Sheets for Both Miles Avenue and Clinton Street**

23 To assist the County field personnel during construction, separate horizontal control plan sheets for Miles
24 Avenue (Phase 2A) and Clinton Street (Phase 2B) will be prepared. In addition, modification to the Street
25 Improvement Plan sheets will be required to remove all horizontal control information that is referenced on the
26 plans. This additional scope of work requires:

- 27 • Staff time to prepare the Horizontal Control Plan sheets.
28 • Staff time to modify the Street Improvement plans.
29

1 **G. Prepare Removal and Utility Plan Sheet for Miles Avenue and Clinton Street**

2 Prepare separate Removal and Utility Plan sheets for Miles Avenue (Phase 2A) and Clinton Street (Phase
3 2B). The Removal and Utility Plan will identify obstacles and utilities that are in conflict with the construction of
4 these projects. In addition, modification to the Street Improvement Plan sheets will be required to remove all
5 Removal and Utility relocation information that are referenced on the plans. This additional scope work
6 requires:

- 7
- Additional staff time to prepare the Removal and Utility Plan sheets.
- 8

9

10 **H. Preparation of Driveway Improvement Plan Sheets**

11 Prepare Driveway Improvement Plan sheets showing the proposed improvements to all of the driveways
12 within the project limits. Depending on the feasibility of the property, a circular, hammerhead or a straight
13 driveway configuration will be designed for the properties fronting Miles Avenue and Clinton Street. The
14 Driveway Improvement Plan sheet will later be used for negotiation with the property owners that will be
15 affected by the widening of Miles Avenue and Clinton Street. The Consultant will also be required to verify the
16 necessary construction limits that will be necessary to provide the construction of either the circular or
17 hammerhead type driveway. Deliverables will consist of a plan view sheet labeling the driveway approach and
18 driveway treatment for all replaced driveways along both Miles Avenue and Clinton Street. This additional
19 scope of work requires:

- 20
- Staff time to Prepare the Driveway Improvement Plan Sheets.
 - Staff time to coordinate with the City of Indio and County for the acceptance of the plan sheet.
 - Staff time to address any comments from the City of Indio and County.
- 21
- 22
- 23

24 **I. CVWD Encroachment Permit Application for Roadway Improvements and Utility Encroachment**

25 Since the project involves work within the Coachella Canal (All American Canal) easement, the Coachella
26 Valley Water District (CVWD) requested that the County obtain a license agreement with the Bureau of Land
27 Management for construction activities and permanent construction within the canal easement area. The
28 license agreement will include preparation of a Phase 1 Environmental Site Assessment for the area of
29

1 potential disturbance within the canal easement and a composite utility plan for each utility crossing the canal.
2 In addition, CVWD requested that the project include all existing and relocated overhead utilities crossings the
3 canal in the County's license package submittal. This additional scope of work requires:

- 4 • Staff time to prepare the Phase 1 Site Assessment, permit package for Riverside County, IID, Verizon
5 and Time Warner for license agreements, and preparation of composite utility exhibit for the utility
6 facilities crossing the canal as well as revision to the street improvement plans to include information
7 required by CVWD to process the permit application.

8
9 **J. Prepare Retaining Wall Plans**

10 Prepare analysis and designs for retaining walls along the Lyndon B. Johnson Elementary School located on
11 Clinton Street, at the gas station located at the southwest corner of Clinton Street and Miles Avenue and the
12 replacement of the existing retaining wall located along Miles Avenue just east of Swingle Street. This
13 additional scope of work will require:

- 14 • Staff time to prepare retaining wall plan sheets and analysis.

15
16
17 **K. Prepare Water Improvement Plans**

18 Prepare Water Improvement Plans for the replacement of a private water system, owned by Boe Del Heights
19 Mutual Water Company that is in conflict with the proposed street improvements. The Water Improvement
20 Plan sheets will include the design of a 4" PVC line that will replace the existing water main line, connections
21 at each end and water services to each of the homes serviced off of Miles Avenue. This task will also include
22 coordination with Boe Del Heights Mutual Water Company and the Indio Water Authority on the design
23 parameters with this line. This additional scope of work requires:

- 24 • Staff time to prepare water line plans for Boe Del Heights Mutual Water Company.
- 25 • Staff time to coordinate with Indio Water Authority during the design of the water line for Boe Del Heights
26 Mutual Water Company.
- 27 • Staff time to address any comments due to the design of the water line.

1 **L. Prepare Utility Potholing Exhibit**

2 Under Amendment No. 1, the Consultant was to provide utility potholing at 14 locations. With the inclusion of
3 the private water system and the additional storm drain line along Miles Avenue, the number of pothole
4 locations increased to a total of 42 potholes. In addition, the Consultant will prepare an exhibit showing
5 survey locations and elevation for the potholes. This additional scope of work requires:

- 6 • Staff time to prepare utility pothole cut sheets.
- 7 • Staff time needed to add the pothole information to the Utility Plans and to the proposed Storm Drain and
8 Water Improvement Plans.
- 9 • Staff time to coordinate with the County and City of Indio for the locations where potholes are needed.

10
11 **M. Revise the Plats and Legal's for the Right of Way Easements and Acquisitions**

12 Under Amendment No. 1, Consultant was to provide 96 Plats and Legal Descriptions for the County's use in
13 the Right of Way acquisition process. Consultant will revise the Plats and Legal Descriptions for the Right of
14 Way Easements and Acquisition to address additional requirements needed for the recordation of the
15 documents. During the design, the corner cut backs located at the street intersection were changed to radial
16 to save on the amount of right of way acquisition needed to widen Miles Avenue and Clinton Street. This
17 change will require the full revision of 20 plats and legal descriptions for right of way acquisition and
18 temporary construction easements. In addition, due to acquisition changes during the design process, 5
19 additional plats and legal descriptions will require full revisions. Consultant will also need to prepare two
20 additional plats and legal descriptions to acquire CVWD access easements along the northwest and north
21 east quadrants of the Miles Avenue Bridge. This additional scope of work requires:

- 22 • Staff time to prepare Plats and Legal Descriptions
- 23 • Staff time to coordinate with County survey group to address comments to the Plats and Legal
24 Descriptions.

25
26
27 **N. Revise the Signing and Striping Plans Sheets**

28 At the request of the City of Indio, modification to the Signing and Striping Plan will need to be made to
29

1 eliminate parking along Miles Avenue and to include a Class II bike lane along both Miles Avenue and Clinton
2 Street. Modification to the striping of roadway and additional signage will be needed to provide for this bike
3 lane and to restrict parking. This additional scope of work requires:

- 4 • Staff time to revise the Signing and Striping plan.
- 5 • Staff time to coordinate with the City of Indio and County for the acceptance of the plans.

6
7 **O. Revise Signal Plan Sheets and Prepare a Signal Modification Sheet**

8 Based on the requested changes to accommodate bike lanes and restrict parking on both Miles Avenue and
9 Clinton Street, revisions to the Signal Plans at Madison Street, Swingle, and Clinton Street along Miles
10 Avenue and at Palmyra along Clinton Street will be necessary.

11
12 The Signal Plans at the intersection of Madison Street and Miles Avenue will also need to be modified to
13 replace the loop detector with video detection due of the proximity of the bridge structure over the All
14 American Canal.

15 In addition to accommodate the construction of Phase 2A, the Consultant will be required to prepare a Signal
16 Modification Plan for the intersection of Clinton Street and Miles Avenue. This signal modification plan will
17 replace the loop detectors with video detection. The video detection will make it easier to accommodate
18 construction staging once the project is in construction. This additional scope of work requires:

- 19 • Staff time to revise the Signal Plan and Signal Modifications Plans.
- 20 • Staff time to coordinate with the City of Indio and County for the acceptance of these plans.

21
22 **P. Prepare Bridge Railing Study and Revise the Bridge Railing Plans**

23 City requested modifications to the railing system to provide additional light blocking characteristics.
24 Consultant shall provide additional concept and renderings showing both concepts to the metal railing on top
25 of the currently proposed concrete bridge barrier. This metal railing will provide light blocking and shall be a
26 minimum of four feet in height above the finished roadway surface at the curb line. It is anticipated by the
27 Consultant that there will be one round of comments and revisions to the railing concepts. Following approval
28 of the final railing concept, Consultant will provide the necessary details for the construction. Deliverables will
29

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1 include two railing concepts with renderings and revised bridge railing plans for construction. Following the
2 initial approval of the railing plans and coordination with the Contractor, the City decided to modify the railing
3 design to utilize the City standard bridge railing. Consultant provided a second modification to the bridge
4 barrier and railing design along the Miles Avenue Bridge. This additional scope of work requires:

- 5 • Staff time to prepare bridge railing concept drawings.
- 6 • Staff time coordinate with the County and City of Indio on revisions and preferred option.
- 7 • Staff time prepare bridge railing construction plan drawings.

8
9 **Q. Additional Bid and Construction Support Time**

10 The original contract included construction assistance for one project. As stated above, the project has been
11 separated into three different phases. Additional time will be needed to support County staff during the
12 construction phase of the additional two phases of work. In addition, the Consultant will provide camber strip
13 drawings and calculations for the construction of the Miles Avenue Bridge (Phase 1). The additional scope of
14 work requires:

- 15 • Staff time to coordinate with the County and provide 4- scale drawings and additional shop drawing
16 reviews for the bridge construction.
- 17 • Staff time to coordinate with the County on additional construction phases.

18
19
20 **R. Traffic Control Plan for Phase 1 Bridge**

21 In order to accommodate the City's request to open the Miles Avenue Bridge prior to the installation of the
22 concrete barrier, the Consultant will prepare Traffic Control Plans for the opening of the Miles Avenue Bridge.

23 The additional scope of work requires:

- 24 • Staff time coordinate with the County and City of Indio proposed roadway configuration for opening.
- 25 • Staff time prepare traffic control plan for bridge opening.

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

ATTACHMENT B - FEE PROPOSAL WORKSHEET
Phase/Task Financial Summary

PHASE I PA/ED	PHASE II PS&E	PHASE III BID/CONST SUPPORT	CONTINGENCY	TOTAL
------------------	------------------	-----------------------------------	-------------	-------

Original Budget Including Amendment No. 1	\$482,857.46	\$704,612.26	\$42,481.19	\$153,090.35	\$1,383,041.26
---	--------------	--------------	-------------	--------------	----------------

Amendment No. 2		\$285,216.85	\$70,993.74	\$30,000.00	\$386,210.59
-----------------	--	--------------	-------------	-------------	--------------

A.	Revise street improvement plans to accommodate 3 construction phases.		\$22,437.23		\$22,437.23
B.	Prepare three special provisions packages for use by County staff to prepare the overall bid contract package, due to phasing of the project.		\$9,601.64		\$9,601.64
C.	Prepare additional cost estimates and quantity break downs based on the three project phases.		\$9,292.10		\$9,292.10
D.	Prepare Storm Drain plans for Miles Avenue at the request of the City approved by County Staff		\$20,600.62		\$20,600.62
E.	Revise previously prepared storm drain plans along Clinton Street at the request of the City to increase pipe size and more location of line to the west.		\$31,847.24		\$31,847.24
F.	Prepare horizontal control plan sheets for both Miles Avenue and Clinton Street.		\$9,118.16		\$9,118.16
G.	Prepare independent removal and utility plan sheet for both Miles Avenue and Clinton Street.		\$6,801.04		\$6,801.04
H.	Prepare driveway improvement plan, showing detailed information on each negotiated driveway configuration.		\$7,773.88		\$7,773.88
I.	Prepare exhibits and CVWD encroachment permit application for roadway and utility encroachments. Package includes preparation of Phase I Site Assessment and utility exhibits for Verizon, IID and Time Warner.		\$11,921.71		\$11,921.71
J.	Prepare retaining wall plans along school site on Clinton Street, along driveway on Miles Avenue east of Swingle and the gas station at the intersection of Clinton and Miles.		\$11,293.79		\$11,293.79
K.	Prepare private water plan for the replacement of the Boe Dell Heights Homeowners Association water supply system. Also included the coordination with Boe Dell Heights and Indio Water Authority.		\$17,817.71		\$17,817.71
L.	Provide utility potholing for all storm drain crossings of underground utility lines along both Miles Avenue and Clinton Street.		\$47,937.25		\$47,937.25
M.	Revise legal and exhibits for right of way easements and acquisitions, to conform with updated County Mapping Standards approved after the start of the L&E preparation by RBF.		\$16,393.83		\$16,393.83
N.	Revise the signing and striping plan sheets based on project phasing as well as multiple changes as requested between the County and City staff.		\$8,251.45		\$8,251.45
O.	Revise signal plans per the final revised striping layout along Miles Avenue and Clinton Street.		\$12,838.54		\$12,838.54
P.	Prepare bridge railing study for revised bridge handrailing to block the majority of traffic headlights. Prepare revised bridge railing plans based on the City and County approved railing section.		\$21,290.46		\$21,290.46
Q.	Additional bid and construction support time due to project phasing (3 total phases).			\$67,762.73	\$67,762.73
R.	Prepare an interim Traffic Control Plan for Phase 1 Bridge opening.			\$3,231.01	\$3,231.01

Contingency				\$30,000.00	\$30,000.00
-------------	--	--	--	-------------	-------------

Proposed Budget	\$482,857.46	\$989,828.91	\$113,474.93	\$183,090.35	\$1,749,251.65
-----------------	--------------	--------------	--------------	--------------	----------------

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

FEE PROPOSAL WORKSHEET					
COMPANY: RBF Consulting		SCOPE OF WORK Project Summary		DATE: 10/15/2009	REV: 2
PROJECT: Miles/Clinton Street & Miles Bridge Improvement Project				MILESTONE/PHASE/PROJECT SUMMARY: All Phases	
DIRECT LABOR					
	I	FUNCTION	HOURS	RATE	AMOUNT
		Project Director	26 @	\$65.00	\$1,690.00
		Project Engineer	754 @	\$45.00	\$33,930.00
		Structural Engineer	176 @	\$52.00	\$9,152.00
		Senior Planner	21 @	\$52.00	\$1,092.00
		Design Engineer	1060 @	\$32.00	\$33,920.00
		CADD/ Asst Eng	584 @	\$33.00	\$19,272.00
		2-Man Survey Crew	16 @	\$94.60	\$1,513.60
		Env Analyst	26 @	\$25.00	\$650.00
TOTAL HOURS			2663	TOTAL DIRECT LABOR	\$101,219.60
MULTIPLIERS					
ESCALATION @		(Rate)			
OVERHEAD @		168.00% (of Total Direct Labor + Escalation)			\$170,048.93
PAYROLL ADDITIVES @		(of Total Direct Labor + Escalation)			
TOTAL MULTIPLIERS					\$170,048.93
OTHER DIRECT EXPENSES *** Billed at Actual Cost ***					
	ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT
TOTAL OTHER DIRECT EXPENSES					
OUTSIDE SERVICES (w/o fee)					
	COMPANY	LABOR	MULTIPLIER	EXPENSES	TOTAL
	Aztec			\$37,815.00	\$37,815.00
TOTAL OUTSIDE SERVICES					\$37,815.00
FEES					
OUTSIDE SERVICES ADMIN FEE @		(of Total Outside Services & Outside Services Fees)			
RBF CONSULTING @		010.00% (of Total Direct Labor + Total Multipliers)			\$27,126.85
OUTSIDE SERVICES @		(of Total Labor + Total Multiplier for Outside Services)			
TOTAL FEES					\$27,126.85
TOTAL COST					\$336,210.38

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

FEE PROPOSAL WORKSHEET					
COMPANY: RBF Consulting		SCOPE OF WORK Final Design Services		DATE: 10/15/2009	REV: 2
PROJECT: Miles/Clinton Street & Miles Bridge Improvement Project				MILESTONE/PHASE/PROJECT SUMMARY: Phase II	
DIRECT LABOR					
PERSONNEL	FUNCTION	HOURS	RATE	AMOUNT	
	Project Director	10	@ \$65.00	\$650.00	
	Project Engineer	590	@ \$45.00	\$26,550.00	
	Structural Engineer	28	@ \$52.00	\$1,456.00	
	Senior Planner	21	@ \$52.00	\$1,092.00	
	Design Engineer	908	@ \$32.00	\$29,056.00	
	CADD/ Asst Eng	490	@ \$33.00	\$16,170.00	
	2-Man Survey Crew	16	@ \$94.60	\$1,513.60	
	Env Analyst	26	@ \$25.00	\$650.00	
		TOTAL HOURS	2089	TOTAL DIRECT LABOR	\$77,137.60
MULTIPLIERS					
ESCALATION @		(Rate)			
OVERHEAD @		168.00% (of Total Direct Labor + Escalation)		\$129,591.17	
PAYROLL ADDITIVES @		(of Total Direct Labor + Escalation)			
				TOTAL MULTIPLIERS	\$129,591.17
OTHER DIRECT EXPENSES *** Billed at Actual Cost ***					
ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
	1				
				TOTAL OTHER DIRECT EXPENSES	
OUTSIDE SERVICES (w/o fee)					
COMPANY	LABOR	MULTIPLIER	EXPENSES	TOTAL	
Aztec			\$37,815.00	\$37,815.00	
				TOTAL OUTSIDE SERVICES	\$37,815.00
FEES					
OUTSIDE SERVICES ADMIN FEE @		(of Total Outside Services & Outside Services Fees)			
RBF CONSULTING @		10.00% (of Total Direct Labor + Total Multipliers)		\$20,672.88	
OUTSIDE SERVICES @		(of Total Labor + Total Multiplier for Outside Services)			
				TOTAL FEES	\$20,672.88
				TOTAL COST	\$265,216.64

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

FEE PROPOSAL WORKSHEET					
COMPANY: RBF Consulting		SCOPE OF WORK Assistance During Bidding & Construction		DATE: 10/15/2009	REV: 2
PROJECT: Miles/Clinton Street & Miles Bridge Improvement Project				MILESTONE/PHASE/PROJECT SUMMARY: Phase III	
DIRECT LABOR					
PERSONNEL	FUNCTION	HOURS		RATE	AMOUNT
	Project Director	16	@	\$65.00	\$1,040.00
	Project Engineer	164	@	\$45.00	\$7,380.00
	Structural Engineer	148	@	\$52.00	\$7,696.00
	Senior Planner			\$52.00	
	Design Engineer	152	@	\$32.00	\$4,864.00
	CADD/ Asst Eng	94	@	\$33.00	\$3,102.00
	2-Man Survey Crew			\$94.60	
	Env Analyst			\$25.00	
		TOTAL HOURS		574	
				TOTAL DIRECT LABOR	\$24,082.00
MULTIPLIERS					
ESCALATION @		(Rate)			
OVERHEAD @		168.00% (of Total Direct Labor + Escalation)			\$40,457.76
PAYROLL ADDITIVES @		(of Total Direct Labor + Escalation)			
				TOTAL MULTIPLIERS	\$40,457.76
OTHER DIRECT EXPENSES *** Billed at Actual Cost ***					
ITEM	QUANTITY	UNIT	UNIT COST	AMOUNT	
				TOTAL OTHER DIRECT EXPENSES	
OUTSIDE SERVICES (w/o fee)					
COMPANY	LABOR	MULTIPLIER	EXPENSES	TOTAL	
Aztec					
				TOTAL OUTSIDE SERVICES	
FEES					
OUTSIDE SERVICES ADMIN FEE @		(of Total Outside Services & Outside Services Fees)			
RBF CONSULTING @		10.00% (of Total Direct Labor + Total Multipliers)			\$6,453.98
OUTSIDE SERVICES @		(of Total Labor + Total Multiplier for Outside Services)			
				TOTAL FEES	\$6,453.98
				TOTAL COST	\$70,993.74

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

MANHOURLY WORKSHEET	
COMPANY: RBF Consulting	SCOPE OF WORK
PROJECT: Miles/Clinton Street & Miles Bridge Improvement Project	DATE: 10/15/2009
	REVISION: 2
	MILESTONE/PHASE/PROJECT SUMMARY: Project Summary

RBF Consulting Summary

TASK	Project Director	Project Engineer	Structural Engineer	Senior Planner	Design Engineer	CADD Asst Emp	2-Man Survey Crew	Env Analyst	TOTAL
Phase 1 Subtotal									
Phase 2 Subtotal	10	590	28	21	908	490	16	26	2,089
Phase 3 Subtotal	16	164	148		152	94			574
Phase 4 Subtotal									
Phase 5 Subtotal									
Totals	26	754	176	21	1,060	584	16	26	2,663

Aztec Summary

TOTAL									
-------	--	--	--	--	--	--	--	--	--

0 Summary

TOTAL									
-------	--	--	--	--	--	--	--	--	--

Miles Avenue/ Clinton Street & Miles Bridge Improvement Project

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

MAN-HOUR WORKSHEET									
COMPANY: RBF Consulting		SCOPE OF WORK Final Design Services			DATE: 10/15/2009		REVISION: 2		
PROJECT: Miles/Clinton Street & Miles Bridge Improvement Project		MILESTONE/PHASE/PROJECT SUMMARY: Phase 2							
Task	Project Director	Project Engineer	Structural Engineer	Senior Project Design Engineer	2300 Asst Eng	2 Man Survey	2 Man Survey	2 Man Survey	TOTAL
Total Manhours	10	590	28	21	908	490	16	26	2,089
A. Project Phasing		60			105	47			212
B. Special Provisions		61			16				77
C. Quantities & Cost Est.		16			43	32			91
D. Miles Avenue SD		40			92	68			200
E. Clinton SD Revision		87			141	72			300
F. Horizontal Control Plan		6			48	39			93
G. Removal/Utility Plan		8			33	27			68
H. Driveway Plan Rev		20			45	9			74
I. CVWD Canal Permit		34		21	20	4		26	105
J. Retaining Walls		38			57	9			104
K. Miles Private Water		45			73	51			169
L. Utility Potholing		14			30	10	16		70
M. Legals and Exhibits		50			55	47			152
N. Striping Revisions		19			36	24			79
O. Signal Revisions		40			52	27			119
P. Railing Study	10	52	28		62	24			176

