

FORM APPROVED COUNTY COURTESY
BY: MS Walker 3/19/10
MARSHAL VICTOR DATE

325



**SUBMITTAL TO THE BOARD OF DIRECTORS OF THE REDEVELOPMENT AGENCY
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

FROM: Redevelopment Agency

SUBMITTAL DATE:
March 16, 2010

SUBJECT: First Amendment to Agreement with Krieger and Stewart, Incorporated for Design Engineering Services for the Highgrove Sewer Project

RECOMMENDED MOTION: That the Board of Directors approve and authorize the chairman to execute the attached First Amendment to the Agreement with Krieger and Stewart, Incorporated for additional engineering and construction administration services in the amount of \$432,800.

BACKGROUND: On July 15, 2008, the Board of Directors approved and executed a contract with Krieger and Stewart, Incorporated for design engineering services for the Highgrove Center Street Trunk Sewer Project. During design, it was determined that by extending the sewer line and the point of connection, it would eliminate the need for a lift station or extensive road modifications saving the County over a million dollars of estimated construction cost. This additional design work as well as costs for construction administration and management for the construction phase that were not included in the original agreement are recommended and total \$432,800. The new project total would be \$731,600. Staff recommends approval of the additional fees so the project can move forward to construction.

Robert Field
Robert Field
Executive Director

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 432,800	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	09/10

COMPANION ITEM ON BOARD OF SUPERVISORS AGENDA: No

SOURCE OF FUNDS: I-215 Corridor Redevelopment Capital Improvement Funds, Highgrove Sub-Area	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE
Jennifer L Sargent
BY: Jennifer L Sargent

County Executive Office Signature

- Policy
- Policy
- Consent
- Consent
- Dep't Recomm.:
- Per Exec. Ofc.:

MINUTES OF THE BOARD OF DIRECTORS OF THE REDEVELOPMENT AGENCY

On motion of Supervisor Tavaglione, seconded by Supervisor Stone and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Stone, Benoit and Ashley
Nays: None
Absent: None
Date: March 23, 2010
xc: RDA

Kecia Harper-Ihem
Clerk of the Board
By: *Quilley*
Deputy

Prev. Agn. Ref.: 4.3 of 7/15/08 | District: 5 | Agenda Number:

ATTACHMENTS FILED WITH THE CLERK OF THE BOARD

4.1

CLERK'S COPY

to Riverside County Clerk of the Board, Stop 1010
Post Office Box 1147, Riverside, Ca 92502-1147
Thank you.

1 **FIRST AMENDMENT TO**
2 **AGREEMENT FOR CONSULTING SERVICES**
3 **BETWEEN KRIEGER AND STEWART**
4 **AND**
5 **THE REDEVELOPMENT AGENCY FOR THE COUNTY OF RIVERSIDE**
6 **FOR THE HIGHGROVE SEWER PROJECT**

7 **THE FIRST AMENDMENT TO THE "HIGHGROVE SEWER PROJECT"** (the
8 "Amendment") is entered into on this 23rd day of March 2010, by and between
9 the County of Riverside Redevelopment Agency, a public body (hereinafter "Agency"), and
10 Krieger and Stewart, INC. (hereinafter "Consultant").

11 **WITNESSETH:**

12 **WHEREAS**, the parties entered into the original Agreement on July 15, 2008; and

13 **WHEREAS**, the scope of services required for successful completion of the project
14 has been expanded due to the necessary extension of the sewer line into the City of
15 Riverside and the need to provide for Construction Administration and Management that
16 were not part of the original agreement; and

17 **WHEREAS**, Agency is requesting Consultant provide the additional services; and

18 **WHEREAS**, fees for the additional services total Four Hundred Thirty-Two
19 Thousand Eight-Hundred Dollars (\$432,800); **and**

20 **NOW, THEREFORE**, in consideration of the foregoing and providing that all other
21 sections not amended remain intact, the parties hereto do hereby agree as follows:

22 **A.** Section 1 of the Agreement is hereby amended to add an additional paragraph as
23 follows:

24 **"1. SCOPE OF WORK.** The services to be performed by Consultant are the
25 additional engineering services necessary to extend the sewer point of connection to
26 Palmyrita Road and provide construction administration and management for the
27 construction phase of the project. The scope of services is more fully described in Exhibit
28 "A1" (attached hereto). Options specified in the scope of services are to be exercised at the
discretion of Agency per written request to Consultant."

1 B. Section 2 of the Agreement is hereby amended in its entirety to read as follows:

2 "2. **COMPENSATION AND METHOD OF PAYMENT.**

3 Consultant's compensation shall be an amount for actual work performed, not to exceed
4 Seven-Hundred Thirty-One Thousand Six Hundred Dollars (\$731,600). Consultant will bill
5 monthly, in accordance with the schedule of fees outlined in Exhibit "B" unless no charges
6 were incurred for the month."

7 C. Section 5 of the Agreement is hereby amended in its entirety to read as follows:

8 "5. **TIME OF PERFORMANCE.**

9 CONSULTANT shall commence and complete performance of services described in
10 Exhibit "A" and "A1" within two (2) years of execution of this Agreement by AGENCY
11 and agrees that it will diligently and responsibly pursue the performance of the services
12 required of it by this Agreement. CONSULTANT will perform the services detailed in
13 Exhibit "A" and "A1" through PROJECT completion. Any delay in providing PROJECT
14 services required by this Agreement occasioned by causes beyond the control and not due to
15 the fault or negligence of CONSULTANT shall be the reason for granting an extension of
16 time for the completion of the aforesaid work. When such delay occurs, CONSULTANT
17 shall promptly notify AGENCY in writing of the cause and of the extent of the delay
18 whereupon AGENCY shall ascertain the facts and the extent of the delay and grant an
19 extension of time for the completion of the work when findings of fact justify such an
20 extension of time.

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EXHIBIT "A-1"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

The proposed Community of Highgrove Center Street Trunk Sewer Project consists of the construction of approximately 10,500 LF of gravity sewer and appurtenances (sewer manholes and sewer laterals) along Center Street (Center Street from Highgrove Place to Michigan Avenue), Highgrove Place (Highgrove Place from East La Cadena Drive to Center Street), and East La Cadena Drive (East La Cadena Drive from Palmyrita Avenue to Highgrove Place).

Construction engineering services required by the Agency consist of reviewing contractor's materials submittals, conducting preconstruction meeting, providing construction staking, processing requested payments by contractor, and evaluating change order requests. Construction engineering services will also include contract administration services to ensure the project proceeds in accordance with the Contract Documents; conducting monthly progress review meetings with Agency staff and the contractor; resolving complaints, concerns and questions from businesses and affected agencies; performing daily construction inspections (including weekly site visits by the Project Engineer); and performing final inspection. Finally, construction engineering services will include preparing record drawings and performing a warranty inspection (one year after construction is completed).

In addition, pursuant to our discussions, the scope of our construction engineering services also includes supplemental engineering services Krieger & Stewart performed during the course of design of the Community of Highgrove Center Street Trunk Sewer Project. The supplemental engineering services consisted of performing additional records research, paying encroachment permit fees, performing additional utility verification, attending meetings with public agencies, analyzing various sewer alignment alternatives, designing additional sewer pipeline, and designing a sewage metering station, all found to be necessary during the course of project planning and design, but not included in our original Scope of Services as detailed below. The additional sewer pipeline design was related to constructing additional sewer line in East La Cadena Drive (2,900 LF of sewer from the original proposed point of connection near the Riverside Canal southerly to Palmyrita Avenue) to eliminate the need to construct costly lift station or street and canal improvements that would have been required were the connection point to remain at the original proposed location.

All services will be or have been provided by Krieger & Stewart. Krieger & Stewart's estimated fees are included in Exhibit "B". In addition, our proposal is based on construction of the Community of Highgrove Center Street Trunk Sewer Project taking place from May 2010 to November 2010 as shown in our estimated project schedule (also included in Exhibit "B").

EXHIBIT "A-1"

CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED

SCOPE OF SERVICES

The scope of our construction engineering services is organized as follows:

A. CONSTRUCTION ENGINEERING SERVICES

1. Bidding Phase Support and Contract Review
2. Supplemental Engineering and Contract Document Preparation Services
3. Submittals Review
4. Preconstruction Meeting and Progress Meetings
5. Construction Staking
6. Payment and Change Order Requests
7. Contract Administration
8. Construction Inspection and Site Visits
9. Final Inspection
10. Record Drawings
11. Warranty Inspection

Each component is discussed in greater detail in the following subsections.

1. Bidding Phase Support and Contract Review

Once the Contract Documents (construction drawings and specifications) are completed and have been approved by the Agency, City of Riverside (City), and Riverside County Transportation Department (RCTD), we will prepare the Notice Inviting Bids and forward it to the Agency for publication. We will then provide copies of the Contract Documents to all prospective bidders. During the bidding period, we will answer questions about or provide clarifications of the Contract Documents. We will also prepare and distribute addenda to all bidders if necessary.

We will assist the Agency with the bid opening and review each bid to determine whether or not it was responsive. For the apparent low bidder, we will check the references supplied, specifically with regard to workmanship, cooperation with inspectors, work completion schedule, and extra work requests. We will also check the contractor's status with the California Contractor's Licensing Board, confirming that the contractor possesses a valid contractor's license.

Following our review of the bids, we will prepare a recommendation of award memorandum for Agency staff which will summarize the bids received and the results of our checks on the contractors' references and recommend Contract award.

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

2. Supplemental Engineering and Contract Document Preparation Services

a. Cultural Resources Records Search for Riverside Canal Aqueduct

As required by the City, Krieger & Stewart arranged and assisted in a cultural review of the Riverside Canal Aqueduct at the East La Cadena Drive crossing, including:

- 1) Preparation of an application package requesting a record search for the Riverside Canal Aqueduct and submitting it to the Eastern Information Center at University of California, Riverside (UCR); and
- 2) Payment of a fee for a UCR record search to determine if the Canal has historical significance.

b. Fees and Outside Services

Krieger & Stewart incurred additional costs for outside services as follows:

- 1) In order to expedite the submittal and review process with the California Department of Water Resources, we paid the deposit for review of preliminary construction drawings showing the proposed sewer crossing over the existing Santa Ana Pipeline for issuance of an encroachment permit for construction;
- 2) In order to expedite the submittal and review process with BNSF, we paid the deposit for review of preliminary construction drawings showing the proposed sewer crossing under their railroad tracks for issuance approval for construction; and
- 3) During the course of design, we found it necessary to perform additional utility verification (four additional potholes) along the original alignment. Our proposal was based on fifteen potholes being required for the project with the work being completed in three days (an estimate based on past experience). However, the actual number required could not be determined until the alignment was established and a utility record search was completed. The number of critical crossings identified as a result of the record search was nineteen, four more than

EXHIBIT "A-1"

CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED

SCOPE OF SERVICES

included in our original proposal, and the work required four days, one more than included in our original proposal.

c. Meetings with Caltrans, the Agency, and the City and Preparation of Alternative Design Concepts

We met with Caltrans to review encroachment permit requirements for constructing retaining walls and canal modifications at the right-of-way line along East La Cadena Drive. During the meeting, we were advised that Caltrans intended to widen the freeway in the project area; we then attended a second meeting with the Caltrans Planning Division to discuss their plans for widening I-215 and its impact on the sewer project. We prepared a memorandum to the Agency summarizing our findings during the meetings with Caltrans. We met with the Agency and reviewed Caltrans' plans to widen I-215, the impact it will have on the Highgrove Center Street Trunk Sewer project, and presented an alternative design concept for a proposed gravity sewer extension along East La Cadena Drive. After we met with the Agency, we met with the City to review the alternative design concept; they subsequently approved the revised sewer alignment.

d. Design of Additional Sewer Pipeline in East La Cadena Drive

Based on our cost and constructability analyses for sewer line alternatives in East La Cadena Drive, the Agency directed us to proceed with preparation of drawings and specifications for a sewer line along East La Cadena Drive from the original proposed connection point to a new connection point at Palmyrita Avenue (approximately 2,900 LF). Our services generally matched those described in our proposal for the original alignment. The drawings and specifications are complete and have been submitted to the City for review and approval; they have also been incorporated into the Community of Highgrove Center Street Trunk Sewer bid package.

In order to prepare comprehensive construction drawings for the additional sewer line, it was necessary for us to perform utility verification (potholing) of four existing utilities and perform field surveying to expand the aerial photogrammetry base mapping.

In addition, the City required the preparation of traffic control drawings along the alignment from Palmyrita Avenue to Iowa Avenue. The traffic control

EXHIBIT "A-1"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

drawings are required because the City has a grade separation project scheduled for early spring 2010 where Iowa Avenue crosses the BNSF Railroad, and they are planning to use East La Cadena Drive for their detour route. The Agency's and City's projects will be coordinated for traffic circulation purposes. We coordinated with the City and considered both projects in our design, thereby expediting the plan review process and acquisition of approvals for construction.

During our utility review for the sewer design process, we also discovered that the proposed sewer line profile conflicts with two significant storm drain facilities crossing East La Cadena Drive. Our project design included redesign and modification of existing storm drains, which are reflected in the construction drawings and specifications; these modifications have also been submitted to the City for review.

e. Design of Sewage Metering Station

The City is requiring that flows from outside the City limits be metered where they enter the City's collection system. Thus, we were required to prepare additional drawings and specifications for a sewer metering manhole and associated power and controls (electrical panel, service panel, remote transmitters, etc.). This item included preparation of design and equipment alternative packages and meetings with City staff to review alternatives and assist in selection of the metering equipment. It also included preparing a letter report to the City outlining the sewage flow timeline for future flows to determine when meters will have to be upsized.

In addition, the City advised us (during a meeting on November 17, 2009) that they require monitoring and recordation of wastewater flow at the metering manhole through their Supervisory Control and Data Acquisition (SCADA) system using radio telemetry. The City's SCADA technician advised us that a radio survey by their SCADA consultant was necessary. We contracted with the City's SCADA consultant to perform the radio survey. Based on the results of the survey, we determined the required SCADA components and incorporated provisions for procuring and installing the SCADA components into the Contract Documents.

EXHIBIT "A-1"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
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SCOPE OF SERVICES

3. Submittals Review

We will review and approve all materials submittals. We expect submittal documents will be received for sewer pipe and manhole materials, storm drain materials, metering station equipment and materials, paving materials, base materials, concrete, and all related materials. Once the submittals have been reviewed and approved, they will be signed, dated, and sent to both Agency staff and the contractor.

4. Preconstruction Meeting and Progress Meetings

We will conduct the preconstruction meeting which will be attended by Agency staff, Krieger & Stewart's principal in charge, project engineer, and project inspector, the contractor, and representatives of RCTD and the City. The preconstruction meeting will provide all parties with the opportunity to review the Contract Documents prior to starting work. Following said meeting, we will prepare and distribute meeting minutes in memorandum format to all parties that attended the meeting.

In addition, we will conduct monthly progress meetings which will be attended by Agency staff, Krieger & Stewart's project engineer and inspector, the contractor, and representatives of RCTD and the City. Said meetings will be used to discuss project progress, scheduling and coordination efforts, and resolution to construction problems encountered. Following said meeting, we will prepare and distribute meeting minutes in memorandum format to all parties that attended the meeting.

5. Construction Staking

We will provide construction staking for the sewer pipeline, sewer manholes, sewer laterals, boring and receiving pits, and storm drain improvements. We will provide construction stakes at 25-foot intervals for the proposed improvements. In accordance with the Contract Documents, the contractor will provide any other construction staking required to perform other specified work or grading.

Our survey crew will set the construction stakes at an offset distance requested by the contractor. We will record construction stake information on the cut sheets and mark it in the field, and will then provide copies of the cut sheets to Agency staff and the contractor.

In addition, we will reference (tie out) any monuments that may be damaged or disturbed during construction to existing permanent facilities (e.g. power poles) to facilitate their

EXHIBIT "A-1"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

replacement. Should these monuments be destroyed or disturbed during construction, we will advise Agency of the actual number of monuments requiring resetting (filing of corner records upon resetting of the monuments must be performed in accordance with the Professional Land Surveyors Act and the Riverside County Surveyor's requirements).

We will reset disturbed monuments and file an associated corner record with the Riverside County Surveyor. Alternatively, we can add a provision in the Contract Documents requiring the contractor to tie out and reset the monuments. For the purposes of this proposal, we have estimated that twelve street centerline monuments will have to be reset, and have included a cost for same in Exhibit "B".

6. Payment and Change Order Requests

Each month, we will review the construction payment requests submitted by the contractor for work completed. We will compare the work completed with each payment request to ensure that the quantities and amounts requested reflect the actual work completed. After each request has been reviewed (and revised if necessary), we will approve it and send it to Agency staff for approval and payment within one week of receiving the request. We will also submit a monthly status report with each payment request.

We will review any change order request received to determine if said request is warranted. If a change order request is not warranted, we will reject same in writing; prior to sending rejection letters to the contractor, we will review same with Agency staff. If a change order request appears justified, we will review it with the construction inspector and compare it with field reports for confirmation of materials, equipment, and/or labor involved; we will review same with Agency staff and receive Agency approval prior to preparing and processing the contract change order in a timely manner.

7. Contract Administration

Throughout the course of construction, we will respond to inquiries regarding the Contract Documents in order to ensure that the sewer and related facilities are constructed in compliance with same. Our project engineer will work closely with our inspector, the contractor, the Agency, RCTD, and the City to promptly address all matters arising during construction. Our construction management activities will include progress review to ensure that the project is proceeding according to schedule, progress review with Agency staff, and related services.

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

Project progress and any changes during construction will be noted on a set of the project's Contract Documents maintained in our office. If a problem occurs requiring an Agency decision, we will consult with Agency staff. We will attempt to resolve complaints, concerns, and questions from businesses and other affected agencies as they arise.

Through telephone conferences, meetings, and presentations, our project engineer will keep Agency staff informed of project progress, problems that occur during construction, and any changes in work.

We will ensure that telephone numbers for normal working hours, evenings, and weekends for our staff, contractor, utilities, and emergency services are provided to all concerned parties.

8. Construction Inspection and Site Visits

We will provide daily construction inspection to verify that the project is progressing in compliance with the Contract Documents. We will provide one full-time inspector at 40 hours per week during construction. In addition, our project engineer will perform weekly site visits. Based on the daily inspections and site visits, we will inform the Agency of the progress and quality of the work being performed as well as any issues requiring attention. We will summarize our findings and present them at our monthly progress meetings.

We will also prepare field reports which will document all observed project activity, including location of the activity, number of workers present, construction equipment used, inspector present (e.g., RCTD, City), weather conditions, and construction progress. We will provide said field reports to Agency staff for their review and records.

9. Final Inspection

After project construction is essentially complete, members of our project team and Agency staff will field review the project and prepare a construction deficiency list (punch list) of items requiring remedial work. After all deficiencies are corrected, our project engineer will prepare a letter to Agency staff recommending acceptance of the project.

EXHIBIT "A-1"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

SCOPE OF SERVICES

10. Record Drawings

Once the project has been completed, we will provide the Agency, RCTD, and the City with a complete set of record drawings which will reflect the improvements as constructed; any changes made during project construction will be shown on the record drawings. Said record drawings will be based on data furnished by the public agencies, the contractor, and our weekly field reports. We anticipate having to "check out" RCTD's and the City's original mylars and perform any changes directly thereto. A set of "record" prints will then be made and provided to the Agency within 60 days of the project's completion.

11. Warranty Inspection

Key members of our design team will participate in an inspection of the improvements one month prior to the conclusion of the contractor's one-year warranty period and make recommendations for repairs or modifications as appropriate.

RAN/blt
807-37P1-PRO-CONST

EXHIBIT "B"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

FEE ESTIMATE AND PROJECT SCHEDULE

A. FEE ESTIMATE

Our estimated fee for providing the services described in our proposal is indicated on Table 1. As shown thereon, we propose to provide all of the services included in our Scope of Services for a fee not to exceed \$432,800.00, which includes \$10,000.00 for reimbursable expenses. Also shown on Table 1 is an additional fee of \$12,000.00 to reset damaged/disturbed monuments (if requested by the Agency). A copy of our 2010 Fee Schedule is also attached, and our fee estimate is based on the rates specified therein. Our fee is subject to negotiation based on clarification or revision of the Scope of Services. The fee set forth on Table 1 is an estimate and may change based on clarifications of the project scope (including construction phasing and/or modifying the project scope).

Please note that our fee estimate is predicated on a number of specific understandings regarding project details and the services required, and that our fees and/or schedule may have to be adjusted in the event that certain additional services are required in order to successfully complete the project. Said understandings include the following:

1. The Contract Work will be specified to be completed in 29 weeks. We have estimated the required duration for providing Krieger & Stewart's contract administration services at 32 weeks (commencing with project award), approximately three weeks beyond the Contract completion, to accommodate (possible) extensions to the construction schedule (see Exhibit "C") that may be required or directed. Field construction of the proposed sewer improvements is anticipated to be completed within 26 weeks. Again, we have estimated our construction phase services to extend three weeks beyond the anticipated completion date (for a total of 29 weeks) to accommodate possible extensions to the construction schedule.
2. Construction staking will be scheduled to allow a minimum of one full day of construction staking for each trip to the site. Construction staking will be required for the sewer pipeline, sewer manholes, sewer laterals, and boring and receiving pits. Our estimate is based on providing construction staking at 25-foot intervals for the proposed sewer and at all manholes.

If directed, we will reset disturbed monuments and file an associated corner record with the Riverside County Surveyor for a lump sum fee of \$1,000 each. For the purposes of this proposal, we have estimated that twelve street centerline monuments will have to be reset.

EXHIBIT "B"

**CONSTRUCTION ENGINEERING SERVICES PROPOSAL
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER PROJECT
KRIEGER & STEWART, INCORPORATED**

FEE ESTIMATE AND PROJECT SCHEDULE

3. Contract administration by Krieger & Stewart's principal-in-charge will require a maximum (average) of 4 hours per week during the construction period (29 weeks). Contract administration by Krieger & Stewart's project engineer will require a maximum (average) of 16 hours per week during the construction period (29 weeks).
4. Construction inspection by Krieger & Stewart's project inspector will require a maximum (average) of 40 hours per week during the construction period (29 weeks).
5. Twenty submittals and re-submittals will be required for the Project, with each submittal requiring 3 hours to review.
6. We will conduct monthly progress meetings (6 total).
7. Final inspection will require a maximum of 16 hours (2 days).

For our construction engineering services, our fee estimate is based on our experience with similar projects; however, our actual fee for construction engineering services will depend on the efficiency, competence, and diligence of the contractor.

B. PROJECT SCHEDULE

Our estimated schedule for Contract Document preparation and project construction is shown on Table 2. As shown, final Contract Documents should be available to contractors by February 9, 2010, assuming we receive signed drawings from the City and RCTD in a timely manner. We anticipate the Agency advertising the project by the end of January 2010, and project construction being completed by November 2010. Thereafter, we will provide the warranty inspection 11 months following the completion of construction (October 2011).

RAN/blt
807-37P1-PRO-CONST

**EXHIBIT "B", TABLE 1
REDEVELOPMENT AGENCY FOR THE COUNTY OF RIVERSIDE
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER
ESTIMATED FEE FOR CONSTRUCTION ENGINEERING SERVICES**

COMPONENT	PRINCIPAL IN CHARGE (1)		PROJECT ENGINEER (2)		STAFF ENGINEER (3)		CONSTRUCTION INSPECTOR (4)		CADD SERVICES (5)		CLERICAL (6)		SURVEYING (7)		TOTAL \$	
	HOURS	\$	HOURS	\$	HOURS	\$	HOURS	\$	HOURS	\$	HOURS	\$	HOURS	\$		
1. BIDDING PHASE AND CONTRACT REVIEW	16	2,880	24	3,840							8	632			7,352	
2. SUPPLEMENTAL ENGINEERING AND CONTRACT DOCUMENT PREPARATION SERVICES																
A. CULTURAL RESOURCES RECORDS SEARCH FOR RIVERSIDE CANAL AQUEDUCT							LUMP SUM								1,600	
B. FEES AND OUTSIDE SERVICES																
1) DEPOSIT TO CALIF. DEPT. OF WATER RESOURCES							LUMP SUM								500	
2) DEPOSIT TO BNSF							LUMP SUM								350	
3) ADDITIONAL POTHoles							LUMP SUM								4,850	
C. MEETINGS WITH CALTRANS, THE AGENCY, AND THE CITY AND PREPARATION OF ALTERNATIVE DESIGN							LUMP SUM								7,500	
D. DESIGN OF ADDITIONAL SEWER PIPELINE IN EAST LA CADENA DRIVE							LUMP SUM								79,300	
E. DESIGN OF SEWAGE METERING STATION							LUMP SUM								24,500	
3. SUBMITTALS REVIEW	4	720	20	3,200	40	5,200	8	800			16	1,264			11,184	
4. PRECONSTRUCTION MEETING AND PROGRESS MEETINGS	16	2,880	30	4,800			4	400			16	1,264			9,344	
5. CONSTRUCTION STAKING			40	6,400	50	6,500							135	35,100	48,000	
6. PAYMENT AND CHANGE ORDER REQUESTS							INCLUDED WITH CONTRACT ADMINISTRATION									
7. CONTRACT ADMINISTRATION AND SITE VISITS	116	20,880	464	74,240							40	3,160			98,280	
8. CONSTRUCTION INSPECTION							1,160	116,000			40	3,160			119,160	
9. FINAL INSPECTION	2	360	16	2,560			8	800			8	632			4,352	
10. RECORD DRAWINGS			8	1,280	8	1,040			24	2,616	2	158			5,094	
11. WARRANTY INSPECTION			8	1,280							2	158			1,438	
SUBTOTAL:	154	27,720	610	97,600	98	12,740	1,180	118,000	24	2,616	132	10,428	135	35,100	\$422,804	

REIMBURSABLES (ESTIMATED):

TOTAL: \$432,804

TOTAL (ROUNDED): \$432,800

RESETTING OF STREET CENTERLINE MONUMENTS: \$12,000
(Lump Sum Fee of \$1,000 each)

2010 FEE SCHEDULE

(1) PRINCIPAL ENGINEER I	@	\$180	/Hr
(2) SENIOR ENGINEER II	@	\$160	/Hr
(3) STAFF ENGINEER III / SURVEYOR III	@	\$130	/Hr
(4) CONSTRUCTION INSPECTOR	@	\$100	/Hr
(5) SENIOR OPERATOR II	@	\$109	/Hr
(6) SENIOR SECRETARY II	@	\$79	/Hr
(7) 2-MAN CREW	@	\$260	/Hr

**EXHIBIT "B", TABLE 2
REDEVELOPMENT AGENCY FOR THE COUNTY OF RIVERSIDE
COMMUNITY OF HIGHGROVE CENTER STREET TRUNK SEWER
ESTIMATED PROJECT SCHEDULE THROUGH CONSTRUCTION**

COMPONENT	MONTH	2009					2010										
		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
1. PREPARATION OF CONSTRUCTION DRAWINGS AND SUBMIT TO PUBLIC AGENCIES (CITY, COUNTY)		■															
2. INITIAL REVIEW BY PUBLIC AGENCIES			■														
3. ADDRESS INITIAL REVIEW COMMENTS AND SUBMIT FINAL CONSTRUCTION DRAWINGS TO PUBLIC AGENCIES				■													
4. SECOND REVIEW BY PUBLIC AGENCIES					■												
5. FINAL CONTRACT DOCUMENTS, OBTAIN CITY AND COUNTY APPROVAL, AND DISTRIBUTE CONTRACT DOCUMENTS TO CONTRACTORS						■											
6. ADVERTISE AND AWARD CONTRACT								■									
7. EXECUTE CONTRACT AND SUBMITTAL REVIEW									■								
8. INSTALL PROPOSED SEWER										■							
9. FINAL CLEAN UP																■	

FEE SCHEDULE
2010

CLASSIFICATION	RATES \$/Hr.
Consulting, Design, Construction, Engineering, Environmental, Geologic, and Surveying Services (Office)	
Consultant	240.00
Principal III	220.00
Principal II	200.00
Principal I	180.00
Senior III	170.00
Senior II	160.00
Senior I	150.00
Associate III	145.00
Associate II	140.00
Associate I	135.00
Staff III	130.00
Staff II	115.00
Staff I	100.00
Technician III	85.00
Technician II	80.00
Technician I	75.00
Forensic Services	
Principal Expert:	
Testimony, Deposition, and Trial	350.00
Investigation and Preparation	250.00
Associate Expert:	
Testimony, Deposition, and Trial	250.00
Investigation and Preparation	225.00
Computer Aided Design Services	
Senior Operator III	115.00
Senior Operator II	109.00
Senior Operator I	103.00
Staff Operator III	98.00
Staff Operator II	89.00
Staff Operator I	84.00
Surveying Services (Field)	
2 Man Crew with Standard Equipment and Survey Truck	260.00
1 Man Crew with Standard Equipment and Survey Truck	225.00
Construction Services (Field)	
Engineer	130.00
Inspector	
Regular Time	100.00
Overtime	
Weekdays (8 hours to 12 hours)	121.00
Weekdays (More than 12 hours)	147.00
Saturday (12 hours or less)	121.00
Saturday (More than 12 hours)	147.00
Sunday and Holiday (Holidays: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and the Day After, Christmas Day)	147.00

**FEE SCHEDULE
 2010
 (continued)**

CLASSIFICATION	RATES \$/Hr.
Support Services	
Senior Secretary II	79.00
Senior Secretary I	75.00
Staff Secretary II	70.00
Staff Secretary I	62.00
Utility Clerk II	58.00
Utility Clerk I	55.00
Outside Services	
Special Consultants and Purchased Services	Cost + 15%
Reimbursable Expenses	
Vehicle Mileage	0.72 \$/Mile
Travel and Subsistence, including Air Fare, Ground Fare, and Vehicle Parking	Cost
Specialized Rental Equipment	Cost
Copies, Delivery, Postage, Prints, Telephone, and Sundry Charges	Cost

The above rates are subject to change on or about January 1 each year due to salary and cost increases, except for Construction Inspector and Survey Crew rates which are also subject to change if California Department of Industrial Relations issues new prevailing wage determinations during the course of the year. A gasoline surcharge may be included in response to increased prices; no such surcharge will be included on project invoices without prior notification.

TERMS OF PAYMENT:

Unless charge accommodations have been established beforehand, all accounts shall be prepaid. For accounts having charge accommodations, payment in full shall be made within 30 days of date of invoice. Any amount unpaid within said 30 days will be assessed a service charge of 1-1/2% per month (18% annual percentage rate), with a minimum charge of \$1.00. Accounts with a past due balance of 30 days or more are subject, without notice, to credit discontinuance and mechanic's lien or stop notice. If it becomes necessary for Krieger & Stewart to initiate legal proceedings for the collection of any balance due, the action shall be brought and tried in the Judicial Districts wherein Krieger & Stewart offices are located. Client agrees that the court may award reasonable attorney's fees and costs of suit to the prevailing party.

2010-FEES (01/13/2010)