

CONTRACT FCD 99-23

CONTRACT FOR CONSULTANT SERVICES

Skunk Creek Watercourse Master Plan Study

C69.99.097.5

Complete

Contract FCD 99-23

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Flood Control District of MC Library
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Phoenix, AZ 85009

C69-99-097.5

Pursuant to the provisions of the Arizona Revised Statutes Section 48-3603, the Board of Directors has the authority to enter into contracts.

The Flood Control District of Maricopa County, Arizona, hereinafter called the District, is desirous of having certain professional services performed in connection with **Contract FCD 99-23, Skunk Creek Watercourse Master Plan Study**, hereinafter called the "Project" and as more fully described in Exhibit A, Scope of Work, and in accordance with Exhibit B, Fee Proposal,

and **ASL Consulting Engineers**, hereinafter called "Consultant," with its principal office located at 501 North 44th Street, Suite 125, Phoenix, Arizona 85008, is desirous of performing said services;

THEREFORE, the parties hereto mutually agree as follows:

SECTION I - SERVICES OF THE CONSULTANT

The Consultant, under the general supervision of the Manager, Planning and Project Management Division, shall prepare studies, reports, surveys, plans, drawings, specifications and cost estimates as are necessary for the Project and according to the directions and designated standards of the District and in accordance with Exhibit A. It is understood and agreed that the District's authorized representative shall be the Manager, Planning and Project Management Division, or his duly authorized representative, hereinafter called the "Agent" and that he/she shall be the sole contact for administering this contract.

The Consultant shall meet periodically with the Agent so as to keep the District informed of the progress of the work in accordance with the schedule defined in Exhibit A.

The Consultant shall promptly advise the Agent of any factors, which may develop during the Project, that would likely result in construction or design costs in excess of budgetary constraints.

SECTION II - PERIOD OF SERVICE

The Consultant shall complete all work for this Contract within five hundred forty-five calendar days following the Notice to Proceed, and in accordance with the schedule provided in Exhibit A, Scope of Work. This includes District review time. Should extension of this contract period be necessary, and any such extension(s) continue the date of contract performance for a time period of more than one year from the original date of contract expiration, adjustment(s) of the consultant's fee(s) may, upon agreement by both the District and the Consultant, be made in accordance with the Consumer Price Index for Urban Consumers, Western Division published by the U.S. Department of Labor, Bureau of Labor Statistics, using the published edition coinciding with the initial contract expiration date. Any such fee adjustment shall only apply to the extended contract time period.

SECTION III - PAYMENTS TO THE CONSULTANT

The Consultant shall be paid for work under this Contract a lump sum fee of \$1,164,358.45 plus a fee not to exceed \$299,638.75 for the following optional plus as identified in the Scope of Work, Exhibit A and the Fee Proposal, Exhibit B. A written authorization from the District Agent will be required prior to proceeding with any optional task.

Optional Tasks:

3.1.4	Project Management (18 months)	\$ 7,781.65
3.16	Biological Survey and Documentation	17,981.00
3.17	Jurisdictional Delineation	22,412.96
3.18	Hazardous Waste Inventory	5,459.31
3.23	Maintenance Plan	10,948.78
3.24	Expanded Implementation Plan	13,994.11
3.25.1.4	Public Involvement: 3 Public meetings	62,121.21
3.25.2	Public Involvement: Additional meetings	15,838.69
3.25.5.1	Public Involvement: Newsletters	34,171.72
3.25.5.2	Public Involvement: Newsletters (additional copies)	23,660.00
3.25.7	Public Involvement: Individual meetings	21,041.33
3.25.8	Public Involvement: PowerPoint presentations	22,652.48
3.25.9	Public Involvement: Media Program	4,970.00
3.26	Rights-of-Way and Easements	12,693.55
3.27	Permits and Approvals	11,889.18
3.1.5	CADD Contingency	<u>12,022.78</u>

Total Optional Tasks Not-to-Exceed Fee \$299,638.75

Contract value will not exceed one million, four hundred sixty-three thousand, nine hundred ninety-seven dollars and twenty cents (\$1,463,997.20), plus any adjustments that have been approved in writing in accordance with the Maricopa County Procurement Code.

The District shall pay the Consultant upon completion of the work as accepted by the District, except that progress payments may be made as billed by the Consultant based on approved monthly progress reports subject to the limitations set forth in Exhibit A, Scope of Work. Ten percent (10%) of all contract payments made on an interim basis shall be retained by the District as insurance of proper performance of the contract or, at the option of the Consultant, a substitute security may be provided by the Consultant in an authorized form pursuant to procedures established by the District. The Consultant is entitled to all interest from any such substitute security.

When the contract is fifty percent (50%) completed, one-half (2) of the amount retained will be paid to the Consultant provided the Consultant is making satisfactory progress on the contract and there is no specific cause or claim requiring a greater amount to be retained. After the contract is fifty percent (50%) completed, no more than five percent (5%) of the amount of any subsequent progress payments shall be retained providing the Consultant is making satisfactory progress on the project, except if at any time the District determines satisfactory progress is not being made, ten percent (10%) retention shall be reinstated for all progress payments made under the contract subsequent to the determination.

If the Consultant desires a partial payment in accordance with the provisions above, the Consultant will complete and forward the enclosed D/M/WBE Participation Report (Attachment 1) indicating payment distribution to Minority/Women-owned Business Enterprise firms with each request for payment. The MBE/WBE participation for this contract has been established as six percent (6%).

Any retention shall be paid or substitute security returned or released, as applicable, to the Consultant within forty-five (45) calendar days after: (1) final completion of all work per Exhibit A, (2) acceptance of the work by the District, (3) the District's receipt of the completed "Certificate of Performance" form enclosed (Attachment 2), (4) the District's receipt of an invoice for any retained monies, and (5) a Final D/M/WBE Participation Report stating the total payments received by the prime as well as total payments the prime has made to MBE and WBE subconsultants, vendors, and suppliers.

SECTION IV - THE DISTRICT'S RESPONSIBILITIES

The District shall furnish the Consultant, at no cost to the Consultant, the following information or services for this Project:

- A. One copy of on-hand maps, records, survey ties, benchmarks or other data pertinent to the Project. This does not, however, relieve the Consultant of the responsibility of searching records for additional information, for requesting specific information or for verification of that information provided. The District does not warrant the accuracy or comprehensiveness of any such information.
- B. All available information and data relative to policies, standards, criteria, and studies, etc. impacting the Project as identified by the Consultant.
- C. Availability of staff for consultation with the Consultant during the performance of studies and plan development in order to identify the problems, needs, and other functional aspects of the Project.
- D. Examination of documents submitted by the Consultant and rendering of decisions pertaining thereto promptly, to avoid unreasonable delay in the progress of the work by the Consultant. The District will keep the Consultant advised concerning the progress of the District's review of work.

SECTION V - AMENDMENTS

This Contract may be amended by mutual written agreement of the District and the Consultant. Any alteration in the scope of work that will result in a substantial change in the nature of the Project so as to materially increase or decrease the contract fee will require negotiation of an amendment to the contract to be executed by the District and the Consultant. No work shall commence on the change until the District has approved the contract amendment and the Consultant has been notified to proceed by the Agent. It is distinctly understood and agreed that no claim for extra work done or materials furnished by the Consultant will be allowed by the District except as provided herein, nor shall the Consultant do any work or furnish any materials not covered by this agreement unless such work is first authorized in writing in accordance with the Maricopa County Procurement Code. Any such work or materials furnished by the Consultant without such written authorization first being given shall be at his own risk, cost, and expense, and he hereby agrees that without such written authorization he will make no claim for compensation for such work or materials furnished.

SECTION VI - RECORDS

Records of the Consultant's payroll expense pertaining to this Project and records of accounts between the District and the Consultant shall be kept on a generally recognized accounting basis and shall be available upon request to the District or its authorized representative for audit during normal business hours. The records shall be subject to audit by appropriate grantor agency if the Project is funded all or in part by a grant.

All Consultant and District procurement records shall be retained for a period of one year and disposed of in accordance with the records retention guidelines and schedules approved by the State of Arizona Department of Library, Archives, and Public Records unless applicable Federal regulations require a longer period.

SECTION VII - PROJECT COMPLETION

If during the course of this contract situations arise which prevent completion within the allotted time, the Agent may grant an extension.

SECTION VIII - TERMINATION

The District may terminate this contract at any time upon reimbursement to the Consultant of expenses, which include reasonable charges for time and material for the percentage of work satisfactorily completed and turned over to the District.

The District reserves the right to postpone, terminate or abandon this Project for the Consultant's failure to complete the Project on time, or failure to comply with the provisions of the contract. The District also reserves the right to terminate any or all parts of this contract for its own convenience as the District may determine at its sole discretion.

The District hereby gives notice that pursuant to A.R.S. Section 38-511 "A" this contract may be canceled without penalty or further obligation within three years after execution if any person significantly involved in initiation, negotiation, securing, drafting, or creating this contract on behalf of the District is, at any time while the contract or any extension of the contract is in effect, an employee or agent of any other party to the contract in any capacity or a consultant to any other party of the contract with respect to the subject matter of the contract. Cancellation under this section shall be effective when written notice from the Chief Engineer and General Manager is received by all of the parties of the contract. In addition, the District may recoup any fee or commission paid or due to any person significantly involved in initiation, negotiation, securing, drafting, or creating the contract on behalf of the District from any other party to the contract arising as a result of the contract.

The Consultant may terminate this contract in the event of nonpayment of fees as specified in Section III, PAYMENTS TO THE CONSULTANT.

SECTION IX - OWNERSHIP OF DOCUMENTS

All original documents including, but not limited to studies, reports, tracings, drawings, physical and computer models, estimates, field notes, investigations, design analyses, calculations, computer software, and specifications, prepared in the performance of this Contract are to be and remain the property of the District and are to be delivered to the Agent before final payment is made to the Consultant. The District reserves the right to reuse the documents as it sees fit. However, the District will not reuse, alter, or modify these documents without noting such alterations, modifications, or intent of their reuse, and will hold the Consultant harmless from any claims arising from the reuse, alteration, or modification of the documents. The Consultant may retain reproducible copies of all such documents delivered to the District.

SECTION X - COMPLIANCE WITH LAWS

The Consultant is required to comply with all Federal, State and local laws, local ordinances and regulations. The Consultant's signature on this contract certifies compliance with the provisions of the I-9 requirements of the Immigration Reform and Control Act of 1986 for all personnel that the Consultant and any subconsultants employ to complete this Project. It is understood that the District shall conduct itself in accordance with the provisions of the Maricopa County Procurement Code.

SECTION XI - GENERAL CONSIDERATIONS

- A. Prior to beginning the work, the Consultant shall furnish the District for approval the names of its key employees, and of its sub-consultants and their key employees to be used on this Project. Any subsequent changes are subject to the written approval of the District.

The Consultant in replacing a MBE/WBE subcontractor should attempt to contract with another MBE/WBE.

- B. The failure of either party to enforce any of the provisions of this Contract or to require performance of the other party of any of the provisions hereof shall not be construed to be a waiver of such provisions, nor shall it affect the validity of this Contract or any part thereof, or the right of either party to thereafter enforce each and every provision.
- C. The Consultant shall be responsible for the cost of any additional design, field layout, testing, construction and supervision necessary to correct those errors or omissions attributable to the Consultant and for any damage incurred by the District as a result of additional construction costs caused by such Consultant errors or omissions.
- D. The fact that the District has accepted or approved the Consultant's work shall in no way relieve the Consultant's responsibility.
- E. It is mutually understood and agreed that this Contract shall be governed by the laws of the State of Arizona, both as to interpretation and performance. Any action at law, suit in equity, or judicial proceeding for the enforcement of this Contract, or any provision thereof, shall be instituted only in the courts of the State of Arizona.

SECTION XII - SUCCESSORS AND ASSIGNS

This Contract shall not be assigned by either party without prior written approval of the other except that the Consultant may use in the performance of this Contract without prior approval of the District, personnel or services of its related entities and affiliated companies as if they were an integral part of the Consultant; and it shall extend to and be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

SECTION XIII - NO KICK-BACK CERTIFICATION

The Consultant warrants that no person has been employed or retained to solicit or secure this Contract upon any agreement or understanding for a commission, percentage, brokerage, or contingent fee; and that no member of the Board of Directors/Supervisors or any employee of the District has any interest, financially or otherwise, in the Consultant firm.

For breach or violation of this warranty, the District shall have the right to annul this Contract without liability, or at its discretion to deduct from the Contract price or consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

SECTION XIV - ANTI-DISCRIMINATION PROVISION

The Flood Control District of Maricopa County will endeavor to ensure in every way possible that minority and women-owned business enterprises shall have every opportunity to participate in providing professional services, purchased goods, and contractual services to the Flood Control District of Maricopa County without being discriminated against on the grounds of race, religion, sex, age, or national origin.

The Consultant agrees not to discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, or disability and further agrees not to engage in any unlawful employment practices. The Consultant further agrees to insert the foregoing provisions in all subcontracts hereunder.

SECTION XV - INDEMNIFICATION

For Professional Liability:

To the fullest extent permitted by law, the Consultant shall indemnify, and hold harmless the Flood Control District of Maricopa County (District) and Maricopa County (County), their agents, representatives, officers, directors, officials, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney fees, court costs, expert witness fees, and the cost of appellate proceedings, relating to, arising out of, or alleged to have resulted from the Consultant's negligent acts, errors, omissions or mistakes relating to professional services in the performance of this Contract. Consultant's duty to indemnify and hold harmless the District and County, their agents, representatives, officers, directors, officials, and employees shall arise in connection with any claim, damage, loss or expense that is attributable to bodily injury, sickness, disease, death, or injury to, impairment, or destruction of property, including loss of use resulting therefrom, caused by any negligent acts, errors, omissions or mistakes, related to professional services in the performance of this Contract including any person for whose negligent acts, errors, omissions or mistakes, the Consultant may be legally liable.

The amount and type of insurance coverage requirements set forth herein will in no way be construed as limiting the scope of the indemnity in this paragraph.

For all other hazards, liabilities, and exposures:

To the fullest extent permitted by law, the Consultant shall defend, indemnify and hold harmless the District and County, their agents, representatives, officers, directors, officials and employees from and against all claims, damages, losses and expenses (including but not limited to attorney fees, court costs, expert witness fees, and the cost of appellate proceedings), relating to, arising out of or resulting from the Consultant's work or services. Consultant's duty to defend, indemnify and hold harmless the District and the County, their agents, representatives, officers, directors, officials and employees shall arise in connection with any claim, damage, loss or expense that is attributable to bodily injury, sickness, disease, death, injury to, impairment or destruction of property including loss of use resulting therefrom, caused in whole or in part by any act or omission of the Consultant, anyone Consultant directly or indirectly employs or anyone for whose acts Consultant may be liable.

The amount and type of insurance coverage requirements set forth herein will in no way be construed as limiting the scope of the indemnity in this paragraph.

Abrogation of Arizona Revised Statutes Section 34-226:

In the event that A.R.S. § 34-226 shall be repealed or held unconstitutional or otherwise invalid by a court of competent jurisdiction, then this duty of indemnification shall extend to all claims, damages, losses and expenses, including but not limited to attorney fees, court costs, expert witness fees, and the cost of appellate proceedings, relating to, arising out of, or alleged to have resulted therefrom, caused in whole or in part by any negligent acts, errors, or omissions relating to professional work or services in the performance of this Contract by the Consultant, or anyone directly employed by the Consultant or anyone for whose acts Consultant may be liable regardless of whether it is caused by any party indemnified hereunder, including the District or the County.

The amount and type of insurance coverage requirements set forth herein will in no way be construed as limiting the scope of the indemnity in this paragraph.

The scope of this indemnification does not extend to the sole negligence of the District or the County.

SECTION XVI - INSURANCE

General Clauses. The Consultant, at Consultant's own expense, shall purchase and maintain the herein stipulated minimum insurance with companies duly licensed, possessing a current A.M. Best, Inc. Rating of B++6, or approved unlicensed companies in the State of Arizona with policies and forms satisfactory to the District.

Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or service required to be performed under the terms of the Contract is satisfactorily completed and formally accepted. Failure to do so may, at the sole discretion of the District, constitute a material breach of this Contract.

Primary Coverage. The Consultant's insurance shall be primary insurance as respects the District, and any insurance or self-insurance maintained by the District shall not contribute to it.

Waiver. The policies required hereunder, except Workers' Compensation and Professional Liability, shall contain a waiver of transfer of rights of recovery (subrogation) against the District, its agents, representatives, officers, directors, officials and employees.

Claim Reporting. Any failure to comply with the claim reporting provisions of the insurance policies or any breach of an insurance policy warranty shall not affect coverage afforded under the insurance policies to protect the District.

Deductible/Retention. The policies may provide coverage which contains deductibles or self-insured retentions. Such deductible and/or self insured retentions shall not be applicable with respect to the coverage provided to the District under such policies. The Consultant shall be solely responsible for the deductible and/or self-insured retention and the District, at its option, may require the Consultant to secure payment of such deductibles or self-insured retentions by a surety bond or an irrevocable and unconditional letter of credit.

Copies of Policies. The District reserves the right to request and to receive, within 10 working days, certified copies of any or all of the herein required insurance policies and/or endorsements. The District shall not be obligated, however, to review such policies and/or endorsements, or to advise Consultant of any deficiencies in such policies and endorsements, and such receipt shall not relieve Consultant from, or be deemed a waiver of, the District's right to insist on strict fulfillment of the Consultant's obligations under this Contract.

Other Insureds. The insurance policies required by this Contract, except Workers' Compensation and professional Liability, shall name the District and the County, their agents, representatives, officers, directors, officials and employees as Additional Insureds.

Commercial General Liability. Consultant shall maintain Commercial General Liability insurance with a limit of not less than \$1,000,000 for each occurrence with a \$2,000,000 Products/Completed Operations Aggregate and a \$2,000,000 General Aggregate Limit. The policy shall include coverage for bodily injury, broad form property damage, personal injury, products and completed operations and blanket contractual coverage including, but not limited to, the liability assumed under the indemnification provisions of this Contract which coverage will be at least as broad as Insurance Service Office, Inc. Policy Form CG 00011093 or any replacements thereof. The coverage shall include X, C, U.

The policy shall contain a severability of interest provision, and shall not contain a sunset provision or commutation clause, or any provision which would serve to limit third party action over claims.

The Commercial General Liability additional insured endorsement shall be at least as broad as the Insurance

Service Office, Inc.'s Additional Insured, Form B, CG 20101185, and shall include coverage for Consultant's operations and products and completed operations.

Automobile Liability. Consultant shall maintain Automobile Liability insurance with an individual single limit for bodily injury and property damage of no less than \$1,000,000, each occurrence, with respect to Consultant's vehicles (whether owned, hired, non-owned), assigned to or used in the performance of this Contract.

Workers' Compensation. The Consultant shall carry Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction of Consultant's employees engaged in the performance of the work or services, as well as Employer's Liability insurance of not less than \$1,000,000 for each accident, \$1,000,000 disease for each employee, and \$1,000,000 disease policy limit.

In case any work is subcontracted, the Consultant will require the Subconsultant to provide Workers' Compensation and Employer's Liability insurance to at least the same extent as required of the Consultant.

Professional Liability. The Consultant shall maintain Professional Liability insurance covering negligent acts, errors, or omissions arising out of the work or services performed by the Consultant, or any person employed by the Consultant, with a limit of not less than \$1,000,000 each claim.

Certificates of Insurance. Prior to commencing work or services under this Contract, the Consultant shall furnish the District with a Certificate of Insurance, Attachment No. 3, or formal endorsements as required by the Contract, issued by the Consultant's insurer(s), as evidence that policies providing the coverage, conditions and limits required by this Contract are in full force and effect. Such certificates shall identify this Contract number and title, as well as all other information stated on Attachment 3 Insurance Certificate.

In the event any insurance policy(ies) required by this Contract is(are) written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the work or services and as evidenced by annual Certificates of Insurance.

Cancellation and Expiration Notice. Insurance evidenced by this Certificate shall not expire, be canceled, or materially changed without thirty (30) days prior written notice to the District. If a policy does expire during the life of the contract, a renewal Certificate must be sent to the District at least fifteen (15) days prior to the expiration date.

.....

IN WITNESS WHEREOF, the parties herein have executed this Contract.

ASL CONSULTING ENGINEERS

[Signature]
Principal (Signature)
Douglas J. Reinhart
Printed Name
President/CEO
Title
Sept 3, 1999
Date
95-1971648
Federal Tax Identification Number

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY:

MS Ellegood 9/13/99
Date
Michael S. Ellegood, P.E.
Chief Engineer and General Manager

ACCEPTED AND APPROVED:

[Signature] 9/15/99
Date
Chairman, Board of Directors

ATTEST:

Norma Resch 9/15/99
Date
Deputy Clerk of the Board 061699

LEGAL REVIEW

Approved as to form and within the powers and authority granted under the laws of the State of Arizona to the Flood Control District of Maricopa County.

Julie M. Lemmon 9/10/99
Date
General Counsel, District

CONTRACT ATTACHMENTS

1. Minority/Women-owned Business Enterprises Program Participation Report
2. Certificate of Performance
3. Certificate of Insurance

Attachment 1

MINORITY/WOMEN-OWNED BUSINESS ENTERPRISES PROGRAM

D/M/WBE PARTICIPATION REPORT
(To be attached with Each Request for Pay)

Date: _____

General Contractor/Prime Consultant: _____
Contact Person: _____
Address: _____
Telephone Number: _____
Fax Number: _____

Project Description: _____
Contract Number: _____
For Pay Period of (indicate dates): _____

D/M/WBE Subcontractor/Subconsultant Name: _____
Contact Person: _____
Address: _____
Telephone Number: _____

Type of Firm: _____
Type of Work performed for this project: _____

Total D/M/WBE Subcontract Amount: \$ _____

Amount Paid to this D/M/WBE
Subcontractor this invoice: \$ _____

Total paid to this Subcontractor to date: \$ _____

Total D/M/WBE Contract Goal this project = ____%

Total D/M/WBE Participation
on this contract to date = ____%

Send to: The Flood Control District of Maricopa County
Contracts Division
2801 West Durango Street
Phoenix, Arizona 85009

Attachment 2

CERTIFICATE OF PERFORMANCE AND PAYMENT OF ALL CLAIMS

ENGINEERING CONTRACT

_____ hereby certifies to the Flood Control District Of Maricopa County
(Name of Signer)
(District) that all lawful claims for labor, rental of equipment, material used, and any other claims by _____
or its subcontractors in connection with the project described in District Contract
FCD _____ for _____ have been paid.

_____ understands that with receipt of payment for previously invoiced amounts plus
any retained monies, that this is a settlement of all claims of every nature and kind against the District
arising out of the performance of the District's Contract FCD ____, relating to the material, equipment,
and work covered in and required by the contract.

The undersigned hereby certifies that to his/her knowledge, no contractual disputes exist in regard to this
contract and that he/she has no knowledge of any pending or potential claims in regard to this contract.

Upon submission of this document and a separate invoice for any retained funds to the District, invoice
processing will be completed within forty-five (45) calendar days.

State of Arizona)
) ss
County of Maricopa)

Signed this ____ day of _____, 199__.

Signature

Title

SUBSCRIBED AND SWORN TO before me this ____ day of _____, 199__.

Notary Public

My Commission Expires: _____

**FLOOD CONTROL District OF MARICOPA COUNTY
CERTIFICATE OF INSURANCE**

CONTRACT FCD99-23

PROJECT TITLE: Skunk Creek Watercourse Master Plan

NAME AND ADDRESS OF INSURANCE AGENCY	INSURANCE COMPANIES AFFORDING COVERAGES	
	Company Letter	A
	Company Letter	B
	Company Letter	C
NAME AND ADDRESS OF INSURED	Company Letter	D
	Company Letter	E
	Company Letter	F

This is to certify that policies of insurance listed below have been issued to the insured named above and are in force at this time

CO. LTR	TYPE OF INSURANCE	POLICY NUMBER	EFFECTIVE DATE (MM/DD/YY)	EXPIRATION DATE (MM/DD/YY)	LIMITS
	COMMERCIAL GENERAL				
	<input checked="" type="checkbox"/> : LIABILITY FORM				GENERAL LIABILITY EACH OCCURANCE \$1,000,000
	<input checked="" type="checkbox"/> : PREMISES OPERATIONS				PRODUCTS/COMPLETED OPERATIONS AGGREGATE \$2,000,000
	<input checked="" type="checkbox"/> : CONTRACTUAL				GENERAL AGGREGATE \$2,000,000
	<input checked="" type="checkbox"/> : BROAD FORM PROPERTY DAMAGE				BODILY INJURY AND PROPERTY DAMAGE \$1,000,000
	<input checked="" type="checkbox"/> : EXPLOSION & COLLAPSE				PERSONAL INJURY \$1,000,000
	<input checked="" type="checkbox"/> : PRODUCTS/COMPLETED OPERATIONS HAZARD				EACH OCCURANCE \$1,000,000
	<input checked="" type="checkbox"/> : UNDERGROUND HAZARD				
	<input checked="" type="checkbox"/> : INDEPENDENT CONTRACTORS				
	<input checked="" type="checkbox"/> : PERSONAL INJURY				
	COMPREHENSIVE AUTO				
	<input checked="" type="checkbox"/> : LIABILITY & NON-OWNED				Each Occurrence \$1,000,000
	<input type="checkbox"/> : EXCESS LIABILITY				NECESSARY IF UNDERLYING NOT ABOVE MINIMUM
	<input checked="" type="checkbox"/> : WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				Each Accident \$1,000,000 Disease - Each Employee \$1,000,000 Disease Policy Limit \$1,000,000
	<input checked="" type="checkbox"/> : ENGINEERS PROFESSIONAL LIABILITY				EACH CLAIM AND ANNUAL AGGREGATE \$1,000,000
	<input checked="" type="checkbox"/> : OTHER	The Flood Control District of Maricopa County and Maricopa County their agents, representatives, officers, directors, officials, and employees are to be named as additional insured.			

Except for Professional Liability Insurance and Workers' Compensation Insurance, the Flood Control District of Maricopa County is added as an additional insured on those types of policies described herein which are required to be furnished by this contract entered into between the insured and the Flood Control District. To the extent provided in this contract, insured shall hold harmless the Flood Control District of Maricopa County and Maricopa County from liability arising out of any services provided or duty performed by insured as required by statute, law, purchase order or otherwise required, with the exception of liability for loss or damage resulting from the sole negligence of Flood Control District, its agents, employees or indemnities. It is agreed that any insurance available to the named insured shall be primary of other sources that may be available. It is further agreed that no policy shall expire, be cancelled, or materially changed to affect the coverage available to the District without thirty (30) days written notice to the District. **THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE COMPANY.**

FLOOD CONTROL District OF MARICOPA COUNTY 2801 West Durango Street Phoenix, Arizona 85009	DATE ISSUED _____ AUTHORIZED REPRESENTATIVE _____
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EXHIBIT A

SCOPE OF WORK

Skunk Creek

Watercourse Master Plan Study

Contract FCD 99-23

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PROJECT DESCRIPTION

1.1. **General Description.** The Skunk Creek Watercourse Master Plan will develop and identify alternative plans for providing flood control along the Skunk Creek. Traditional structural flood control alternatives will be compared to non-structural flood control solutions (those that have the least environmental impact) based upon the investigation and determination of the potential lateral migration of Skunk Creek. The non-structural flood control alternatives will go beyond the use of traditional floodplain management tools to protect existing and future residents from the 100-year flood event, and the possible damages associated with the potential lateral migration of Skunk Creek. The Skunk Creek Watercourse Master Plan is a joint effort by the Flood Control District of Maricopa County and the City of Phoenix.

1.2 **Work Priority.** The Project will be awarded to the selected CONSULTANT as a single contract. The first work priority (Work Priority I) is Skunk Creek within the City of Phoenix from the Central Arizona Project (CAP) Canal north to the Carefree Highway, (approximately four [4] miles) including an unnamed tributary from the CAP Canal northeasterly (approximately [3] miles). Work Priority I is necessary to meet the City of Phoenix expectations for the project. The second work priority (Work Priority II) is Skunk Creek from the Carefree Highway northerly to the unincorporated community of New River (approximately 9 miles).

1.3 **Purpose.** The purpose for the Skunk Creek Watercourse Master Plan is to determine the potential lateral migration and hydraulic impacts, if any, of differing intensities of structural protection for the Skunk Creek. Work Priority I of this Study will compare the benefits and opportunities of a full-structural, a non-structural, and two community influenced flood control solutions. Work Priority II will determine the benefits and opportunities for a non-structural flood control solution where possible. It is anticipated that some structural flood control alternatives may need to be included in the Work Priority II non-structural solution; however, the overall solution for Work Priority II shall be non-structural in nature and be based on a least environmental impact analysis.

1.4 **Location.** Skunk Creek is located in the north-central portion of Maricopa County. The limits of the Upper Skunk Creek Watercourse Master Plan include Upper Skunk Creek from the CAP Canal north through the community of New River to a point about 700 feet upstream of the crossing of the New River Road, and the Unnamed Tributary (to be named Joe Lort Wash) northeast from Skunk Creek at the CAP Canal to the 7th Avenue alignment (Section 19/20 boundary, T5N, R2E).

1.5 **Agencies.** The following representatives will be receiving copies of project submittals and will act as a agency point-of-contact:

Doug Williams, AICP
Project Manager
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009

Cindy White
Floodplain Management
City of Phoenix
201 West Washington Street
Phoenix, Arizona 85003

Ray Quay
Deputy Director, Planning Department
City of Phoenix
201 West Washington Street
Phoenix, Arizona 85003

1.6 **Contract Time.** The CONSULTANT shall complete the project within the contract period of 545 calendar days, which includes review time for the DISTRICT. The CONSULTANT shall work diligently to complete the Work Priority I (see item 1.2) within the first 360calendar days, which includes review time for the DISTRICT.

1.7 **Project References.** The CONSULTANT shall be provided the following data by the DISTRICT at the project Kickoff Meeting:

- 1.7.1 Aerial topographic mapping of Skunk Creek (not Unnamed) in digital format.
- 1.7.2 Hydrologic reports and models for Skunk Creek.
- 1.7.3 Hydraulic reports and models for Skunk Creek.

The DISTRICT will provide the CONSULTANT with base mapping from the DISTRICT's GIS system. Base mapping will include topography, existing floodplain and floodway boundaries, floodplain HEC-2 cross section locations, land ownership, land use types, soil types, and hydrologic basin boundaries and points of concentration. The land ownership maps will indicate whether property is publicly or privately held and the owning party. The CONSULTANT will use digital information provided by the DISTRICT to prepare base maps for the interim and final reports.

2. SCHEDULE

2.1. **Project Schedule.** Within 14 days of Notice To Proceed, the CONSULTANT shall submit a project schedule to the DISTRICT's Project Manager showing coordination meetings, dates of all proposed submittals for each of the tasks in the scope and significant project milestones. The CONSULTANT shall update this project schedule when appropriate.

2.2. **Schedule Format.** The schedule shall be developed in a computerized format that contains the anticipated beginning and end dates for the project tasks, the time duration of each task, a bar chart (Gantt Chart) showing the tasks and the overall duration of the project. The computer program MS PROJECT 98 or compatible is preferred. The CONSULTANT shall submit the schedule in both printed and digital format.

2.3. **Schedule Content.** The schedule shall provide for completion of the work within the contract time for both Phases unless the DISTRICT approves an extension. The

schedule shall include, at a minimum, the major project milestones, project meetings, and submittal dates of deliverables.

2.4. **DISTRICT Review Period.** The CONSULTANT shall allow for a 2-week review period for review and comment by the DISTRICT and other involved parties, for each report and data submittal in the schedule.

3. CONTRACT WORK TASKS

3.1. **Project Management.**

3.1.1. The CONSULTANT shall appoint a Project Manager who shall be knowledgeable of the progress of each Phase of the project. The Project Manager shall be the same person listed in the CONSULTANT's Technical Proposal unless otherwise approved by the DISTRICT. The DISTRICT may request the replacement of the Project Manager if the DISTRICT determines that this would be in the best interest of the project.

3.1.2. The DISTRICT may terminate this agreement if the Project Manager is not available or if the CONSULTANT is unable to provide a replacement Project Manager acceptable to the DISTRICT.

3.1.3. The Project Manager shall be the point of contact for the DISTRICT.

3.1.4. The CONSULTANT shall provide a budget for optional project management services under this task. This optional work is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this paragraph.

3.1.5. The CONSULTANT shall provide a budget for optional computer-aided drafting and design services (CADD) management services under this task. This optional work is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this paragraph.

3.2. **Subcontractor Management.** The work of any sub-CONSULTANT utilized by the prime CONSULTANT for this contract (i.e., civil design, structural design) shall be reviewed by the prime CONSULTANT for compliance with this scope of work and these specifications prior to submittal for review by the DISTRICT. In particular, all calculation sheets shall be initialed and dated by both a designer and a checker.

3.3. **Performance Evaluation.** A Performance Evaluation Form shall be given to the CONSULTANT at the preliminary meeting to provide the CONSULTANT with the criteria for doing the Performance Evaluations. The CONSULTANT and the DISTRICT at completion of the preliminary and final Phases of the project shall complete performance Evaluations. The DISTRICT will provide the standard evaluation form.

3.4. **Invoices.**

3.4.1. The CONSULTANT shall submit a quarterly estimation of the projected billing within 14 days of Notice to Proceed. Thereafter, this estimation shall be updated and submitted to the DISTRICT's Project Manager at least 10 days prior

to the end of each quarter.

3.4.2. The CONSULTANT shall submit monthly (or other time intervals approved by the DISTRICT) invoices that reflect work accomplished during the invoice period. The invoices shall identify the contract number and shall include: the amount for each work task and subcontracted service identified in the negotiated fee proposal times the percent complete and a total for all work tasks; the amounts previously billed; and the amount due for the period.

3.4.3. Invoices shall be submitted to Accounts Payable, Flood Control District of Maricopa County, 2801 West Durango, Phoenix, Arizona 85009.

3.4.4. The CONSULTANT shall submit monthly progress reports that discuss project activities for the same time period as included in the monthly invoices. The report shall be brief and should be no longer than two typed pages. At a minimum, the monthly report shall contain the following:

3.4.4.1. A description of the work accomplished by task during the reporting month.

3.4.4.2. Percent (%) completed for the month and percent (%) cumulative completed for each task. The tasks shall be the same as the tasks contained in the project cost proposal.

3.4.4.3. A brief description of the work to be accomplished the following month.

3.4.4.4. A description of any problems encountered.

3.5. Coordination.

3.5.1. The Project Manager shall call the DISTRICT's Project Manager a minimum of once a week to provide a weekly progress report.

3.5.2. The CONSULTANT's Project Manager shall participate in regular coordination meetings (at least every two weeks) with the DISTRICT's Project Manager and in milestone coordination meetings in the development of the hydrologic and hydraulic analyses, alternative solutions and the recommended plan. The CONSULTANT is responsible for the minutes of any meetings. Whenever possible, coordination and milestone meetings should be combined.

3.5.3. The Project Manager shall keep the DISTRICT informed of all coordination with outside agencies and other affected parties.

3.5.4. The Project Manager shall include copies of minutes of meetings, telephone conversations, and correspondence to the DISTRICT in a Correspondence Appendix to the Skunk Creek Watercourse Master Plan Study Report.

3.6. Meetings.

3.6.1. The CONSULTANT shall meet with officials from the City of Phoenix, the unincorporated community of New River, and Maricopa County. The purpose of these meetings is to identify local flooding problems and obtain information on current and planned private or public works projects, channel modifications, storm-drainage systems, development, and corporate limits.

3.6.2. Meetings with other agencies and utilities shall be held as required and shall generally be held at their offices. The maximum number of meetings authorized under this contract is five (5). The DISTRICT shall be kept informed of all such meetings, and shall attend the meetings when needed. The DISTRICT shall be copied on all meeting minutes.

3.6.3. Meetings with the DISTRICT shall generally be held at the DISTRICT offices.

3.6.4. Kickoff Meeting. The CONSULTANT shall meet with the DISTRICT to submit the project schedule that shall include dates of all proposed submittals and review meetings, and to discuss the schedule and the tasks necessary to accomplish it. The CONSULTANT shall bring the key project team members, including the project checkers, to the meeting to introduce them to the DISTRICT staff who will be working on the project. The DISTRICT will give the aerial topographic mapping to the CONSULTANT at this time.

3.6.5. Project Review Meetings. Following the review of project deliverables, the CONSULTANT shall meet monthly with the DISTRICT's Project Manager and project review team to review the overall project status and to discuss the DISTRICT's review comments that will be provided to the CONSULTANT at the meeting. The CONSULTANT shall be prepared to discuss and address the comments. Any problems shall be identified and discussed. The CONSULTANT shall keep minutes of all regularly scheduled project review meetings and public meetings.

3.6.6. Performance Evaluations. The Performance Evaluation Form shall be given to the CONSULTANT at the preliminary meeting to provide the CONSULTANT with the criteria for doing the Performance Evaluations. The CONSULTANT and the DISTRICT shall complete the Performance Evaluations at the Final Submittal Meeting. The DISTRICT will provide the standard evaluation forms.

3.7. **Site Visits.** The CONSULTANT shall visit the project site as necessary to become familiar with existing conditions and to facilitate the design and preparation of the contract documents.

3.7.1. It is anticipated that the CONSULTANT shall make at least seven (7) site visits. The first visit shall be at the inception of the Skunk Creek Watercourse Master Plan Study to become familiar with the area. At a minimum, the first site visit shall be coordinated with the DISTRICT's Project Manager. The CONSULTANT shall also visit the site with the DISTRICT's Project Manager at the preferred alternative selection phase of the Watercourse Master Plan. The purpose of this second site visit is to verify that conditions along the Skunk Creek and the Unnamed Tributary have not significantly changed. Five (5) other visits are allotted for the purpose of formulating and evaluating alternatives.

3.8. **Data Collection and Analysis.** The CONSULTANT shall rely upon both original and existing data to determine the lateral migration of Skunk Creek. The CONSULTANT shall collect and review pertinent data from the DISTRICT and other outside sources. The CONSULTANT shall research and locate the existence of historical photographs, historical surveys, existing remote sensing data, and geomorphic data. Other data to be collected will include materials relevant to the project. Examples are: previous flood hazard reports and hydrology for the study area; existing topographic mapping; historical flooding information; as-built plans for existing structures; FEMA Flood Hazard Boundary Maps and any Letters of Map Amendment and/or Revisions, and other pertinent information.

3.8.1. The DISTRICT will provide the following data at the Kickoff meeting:

3.8.1.1. Aerial topographic mapping in digital format.

- 3.8.1.2. Floodplain and floodway boundaries and HEC-2 cross sections in digital format.
- 3.8.1.3. Land use mapping, soils mapping, hydrology sub-basin boundaries, and parcel maps in digital format.
- 3.8.1.4. Hydrologic reports and models for Skunk Creek.
- 3.8.1.5. Hydraulic reports and models for Skunk Creek.

3.8.2. The CONSULTANT shall prepare a report summarizing the data collection effort. The CONSULTANT shall submit a draft of this report within 120 days of the Notice to Proceed. The final report will be included in the Skunk Creek Watercourse Master Plan Report.

3.9. **Field Surveying and Mapping.** The CONSULTANT shall perform field surveys on all major road crossings identified with points of concentration in the hydrology model of the Unnamed Wash and at roadway crossings of Skunk Creek that have been modified since the date of the current FEMA FIS for Skunk Creek. Survey measurements at each location will include one cross-section taken at a point 200 feet downstream of the road and one taken along the road.

3.9.1. The CONSULTANT shall prepare aerial mapping for the Unnamed Wash tributary at a scale of 1"=200' with a two (2) foot contour interval. The mapping will be provided in conformance with FEMA 37, latest edition as of the date of Notice to Proceed. This mapping shall extend a minimum of 100 feet beyond the estimated limits of the recommended alternative. The mapping shall be provided on the same horizontal and vertical datum as used for the current Skunk Creek FEMA FIS study mapping. Five (5) sets of 9"x9" color stereo contact prints shall be provided. Three are for use by the CONSULTANT and 2 sets are to be provided to the DISTRICT.

3.9.2. The CONSULTANT shall provide field mapping in DXF format that meets the DISTRICT's CADD standards and formatting requirements for conversion to GIS.

3.9.3. The CONSULTANT shall conduct field surveys necessary to complete the preliminary design of the recommended plan.

3.9.4. A registered land surveyor shall supervise and stamp all survey work.

3.9.5. Field surveys of bridges, culverts, and drainage structures are to be obtained by the CONSULTANT when as-built plans are not available.

3.9.6. The CONSULTANT shall provide color rectified digital aerial ortho-photographs of the study reach of Skunk Creek and the Unnamed Wash. The photographs shall be at a scale of 1"=400' and in a TIFF digital file format. The digital photographs shall meet the minimum requirements specified in the DISTRICT's Digital Orthophotos Guidelines dated June 9, 1999.

3.9.7. The CONSULTANT shall document all project survey data in a Project Survey Report. Copies of all survey note books or printout of digital files developed with data collectors will be provided. The horizontal and vertical benchmarks used for the survey shall be documented along with documentation of the datum upon which the benchmark was originally established. Conversion to other datums as required herein shall be documented in the report. A summary table of the ERM's and benchmarks shall be included. ERM data shall be delivered in accordance with the DISTRICT's HIS Rev 3.1 database

specifications.

3.10. Hydrologic Analysis. Alternative designs for the Skunk Creek Watercourse Master Plan shall be based upon a floodway/floodplain capable of conveying the 100-year flood peak flow. Those flows shall be predicted using hydrologic computer models from the Flood Insurance Studies for Skunk Creek, and additional studies of the Unnamed Tributary to be performed by the CONSULTANT. The estimated future (build-out) condition for the watershed shall be used. A new HEC-1 model, meeting current DISTRICT Standards, (Drainage Design Manual for Maricopa County, Volume I Hydrology, January 1, 1995 version) shall be prepared for the East Biscuit Flats area in support of the floodplain delineation of Unnamed Tributary. The existing and newly generated future condition HEC-1 models from the Flood Insurance Studies shall be modified to also provide estimates of the existing and future condition 2-year and 10-year peak discharges. The peak discharges for the 2- and 10-year events may be estimated from USGS gage data and/or USGS regression equations. Hydrographs from the HEC-1 models may be adjusted to match the estimated peak discharges for use in sediment modeling and geomorphology. The HEC-1 models used for alternative analyses may also include more detailed channel routing reaches that match the reaches used for estimating geomorphic and sediment reach-averaged parameters. The 100-year HEC-1 model used for alternative analyses shall include the effects of over bank storage lost to full encroachment of the flood fringe areas. The CONSULTANT will work with the DISTRICT staff in a team effort to estimate future condition factors affecting rainfall losses, time of concentration, and routing. The sub-basin boundaries will remain the same as for existing conditions. The DISTRICT staff will be responsible for using the DISTRICT GIS system to provide estimates of build-out condition, percent impervious values based on current projected land use densities, provide any revised watershed maps, and for participation in team meetings to agree on any necessary revisions to T_c and routing parameters. The CONSULTANT will be responsible for revising the HEC-1 models, re-optimizing routing parameters if necessary, performing confidence checks on the results and extracting hydrographs at each change in discharge location in the HEC-2 models.

3.11. Hydraulics Analysis.

3.11.1. Hydraulic Computations and Water Surface Profiles. The CONSULTANT shall complete hydraulic computations and water surface profiles consistent with the procedures as provided in the Drainage Design Manual for Maricopa County, Volume II Hydraulics, and the supplement to this scope of work.

3.11.2. The CONSULTANT shall update the Work Priority I Skunk Creek HEC-2 computer models developed for FIS purposes, to include existing, approved or planned developments within the floodplain. Only developments that have occurred since the completion of the topographic mapping for the current FIS, and that occur no later than 60 days after the date of contract signing, are included. The HEC-2 model will be converted to an HEC-RAS format model for the Skunk Creek. The updated FIS will be prepared in a Technical Documentation Notebook format and will be submitted to the City of Phoenix and the DISTRICT. Submittal to FEMA is not part of this contract.

3.11.3. The CONSULTANT shall develop a new HEC-RAS computer model for the Unnamed Tributary for FIS purposes and will submit it to the City of Phoenix and the DISTRICT. Submittal to FEMA is not part of this contract. The model

provided by the CONSULTANT will be converted to a single HEC-RAS format model, and combined with the Skunk Creek model. The model will be used for existing and future conditions.

3.11.4. The CONSULTANT shall modify the combined HEC-RAS model to document the hydraulic conditions resulting from each of the four (4) project alternatives during the development of Work Priority I and three (3) project alternatives for Work Priority II of the Skunk Creek Watercourse Master Plan as further defined in Task 3.15. Floodplain encroachments for each alternative shall be documented to ensure that they are consistent with the procedures in the supplement to this scope of work. The DISTRICT may increase the number of modeled alternatives with authorization of an optional Alternatives Analysis (contingency) task.

3.11.5. The CONSULTANT will prepare and make the initial application for the renaming of Unnamed Wash to Joe Lort Wash.

3.12. Sedimentation.

3.12.1. Scour Analysis. Local scour depths for the study reach will be estimated as necessary. Bridge and culvert scour for existing structures shall be estimated at each paved crossing of Skunk Creek.

3.12.2. HEC-6 Models. Base condition HEC-6 models will be developed for the entire study length. The sediment study will establish base conditions for the existing condition. The HEC-RAS model from Task 3.11 will be converted to an HEC-2 data set and modified appropriately for use in HEC-6. The models will be used to assess potential reaches of aggradation or degradation. The impact of sediment deposition or removal during major flood events will be evaluated for each of the alternatives.

3.12.3. Sediment Sampling and Testing. The CONSULTANT shall obtain and test samples of the existing channel bed and banks throughout the study reaches. Up to 60 samples may be obtained at up to 20 locations determined by the CONSULTANT. Representative samples shall be obtained from the channel bed (active transport layer) and primary channel banks. Visual estimates of bank sediment characteristics may be substituted for physical samples, at the discretion of the CONSULTANT, where bank conditions would prevent normal sampling procedures. In addition, pebble count samples shall be obtained for the surface layer of the channel bed at each sampling location. The sampling procedures shall be consistent with procedures described in the Bureau of Reclamation's, Computing Degradation and Local Scour, January 1984, or the US Army, Corps of Engineers, Sedimentation Investigations of Rivers and Reservoirs, 31 October 1995. Gradations of the sediment samples shall be plotted for both the channel bed and banks. Changes in the gradations throughout the study reach shall be documented. Test data, gradation plots, plots of the longitudinal change in size, and any other supporting data shall be included in a Technical Data Appendix of the Skunk Creek Watercourse Master Plan Report.

3.12.4. The CONSULTANT shall estimate sediment yield using results from previous regional studies and sediment transport functions for major tributaries assuming transport control rather than supply control. Selected sediment transport functions are to be used in the analysis employing the flood hydrographs from the rainfall-runoff (HEC-1) model of the watershed. Sediment

yield estimates from regional studies and from the sediment transport functions are to be the basis of estimating sediment yield for both the existing and the future developed conditions.

3.13. Potential Lateral Migration Analysis.

3.13.1. The CONSULTANT shall estimate the potential lateral migration of Skunk Creek and the Unnamed Tributary, in conjunction with the sedimentation modeling, by analyzing historical information gathered during the data collection phase, and by geological and geomorphic investigations. The methods for determining the lateral migration are to include:

3.13.1.1. Field Investigations. The CONSULTANT shall conduct field visits to the study reach to observe and document channel and floodplain conditions, to collect sediment samples, to observe evidence of recent and historical flood impacts, to document evidence of past lateral channel movement, to describe soil profiles and surficial characteristics, and to collect data for use in the lateral stability assessment.

3.13.1.2. Stream classification. The CONSULTANT shall prepare a stream classification description for each study reach that documents key geomorphic features, describes on-going channel processes, mechanisms for lateral movement, channel and floodplain characteristics, and hydrologic processes. The stream classification is to serve as the basis for selection of appropriate engineering and geomorphic analysis techniques.

3.13.1.3. Interpretation of historical maps and photographs. The CONSULTANT shall document and compare historical channel positions to identify the location and magnitude of historical change and lateral movement. The CONSULTANT shall prepare maps showing channel boundary locations during the period of record.

3.13.1.4. Geomorphic mapping of surficial landforms. The CONSULTANT shall prepare maps of geologically recent landforms along the study reach. The objective in preparing the mapping is to identify evidence of geologically recent lateral channel movement, and to constrain the limits of potential movement by the presence of geologically old surfaces. The CONSULTANT is to determine the presence and degree of development of desert varnish, paleoflood evidence, soil profile development, carbonate stage (caliche), archaeological information, surficial characteristics, and other available information to distinguish geomorphic surfaces adjacent to the river corridor. The CONSULTANT shall provide a backhoe and operator to excavate up to 60 soil pits at 20 locations to facilitate soil descriptions by the CONSULTANT.

3.13.1.5. Dating of geomorphic surfaces. The CONSULTANT shall date geomorphic surfaces using relative dating techniques such as soil descriptions, desert varnish, the presence of caliche, and archaeological information if available.

3.13.1.6. Empirical geomorphic relationships. The CONSULTANT shall apply established empirical geomorphic relationships that describe channel pattern relationships, channel planform, and channel geometry. The objective of these analyses is to predict lateral and vertical channel

movement, and to identify stable and unstable reaches.

3.13.1.7. Scour depths. The long-term and general scour depths shall be estimated using appropriate methodologies to be determined by the CONSULTANT.

3.13.1.8. Equilibrium slope. Equilibrium slope shall be estimated using appropriate methodologies to be determined by the CONSULTANT in conjunction with the DISTRICT.

3.13.1.9. Prudent Line. The prudent line approach defined in the Albuquerque Metropolitan Arroyo Flood Control Authority Sediment and Erosion Design Guide (November 1994) shall be applied to each study reach.

3.13.1.10. Empirical Relationships. Empirical relationships and regime-type equations determined by the CONSULTANT shall be applied to estimate the expected direction and nature of future channel evolution.

3.13.1.11. Armoring. The potential for channel bed armoring will be evaluated, and the depth of scour required to form an armor layer shall be estimated using appropriate methodologies to be determined by the CONSULTANT.

3.13.2. The CONSULTANT shall prepare a Lateral Migration Analysis Report that describes the results of the tasks for determining the potential lateral migration of Skunk Creek and the Unnamed Tributary. The report shall discuss how the potential lateral migration was determined, and how it may effect flood control issues within the area. The CONSULTANT shall submit a draft report for review and comment. The CONSULTANT shall address all appropriate comments when the Lateral Migration Analysis Report is incorporated into the final draft of both Phases I & II of the Skunk Creek Watercourse Master Plan Reports, up to the level of effort defined in the fee proposal.

3.14. **Flood Warning.** The consultant will prepare recommendations for flood warning for Skunk Creek and Joe Lort Wash. The recommendations will be conceptual in scope, but will include the following elements: (1) evaluation of the need for flood warning, (2) assessment of the DISTRICT's existing ALERT system for providing the needed level of flood warning, if any, (3) assessment of flood warning needs for each of the defined alternatives, (4) recommendations for enhancements of the DISTRICT's existing ALERT system to provide the recommended level of warning, and (5) identification of emergency response agencies and mechanisms.

3.15. **Alternatives Analysis.** The CONSULTANT shall conduct initial studies in order to obtain the optimum combination of flood control features. Alternate methods, features, materials, etc., shall be identified.

3.15.1. Alternatives Formulation and Analysis.

3.15.1.1. The CONSULTANT shall identify a minimum of four (4) possible project alternatives for Work Priority I, (south of the Carefree Highway) based on the following floodplain management policies: one non-structural alternative, two partial structural alternatives, and one structural alternative. The non-structural alternative shall be that alternative which has the least detrimental environmental impacts. Work Priority II (above the Carefree Highway) shall identify three (3) possible

project alternatives: one non-structural, one partial structural and one structural.

3.15.1.2. Those alternatives that can be initially eliminated with minimal analysis shall be identified and eliminated from further consideration. The eliminated alternatives shall be documented in the Skunk Creek Watercourse Master Plan. Recommendations, preferences, and comments from applicable public meetings shall be considered, and additional alternatives shall be developed or existing alternatives may need to be modified.

3.15.1.3. The project alternatives may include alternative design concepts ranging from a natural undisturbed appearance to fully developed multi-use type improvements, alternative alignments, alternative encroachments into the floodway fringe, and alternative construction materials.

3.15.1.4. Project alternatives to be considered include, but are not limited to the following:

3.15.1.4.1. A minimal improvement alternative.

3.15.1.4.2. A typical armored bank with full development of the floodplain fringes.

3.15.1.4.3. A Master Plan that avoids construction in the floodplain, leaving Skunk Creek in its natural state with appropriate setbacks for the potential lateral migration.

3.15.1.4.4. A less than full build-out alternative.

3.15.1.5. Groundwater Recharge Considerations. The final selected alternatives, four (4) for Work Priority I and three (3) for Work Priority II, shall include consideration of groundwater recharge enhancement techniques including gabions, swales, dry wells, sand tanks, and small dams along the Skunk Creek in accordance with State Statute 48-3609.01, Watercourse Master Plans. The effects of each alternative on the existing groundwater recharge capacity of the Skunk Creek and the Unnamed Tributary shall be estimated and documented in the Alternatives Formulation report and the Skunk Creek Watercourse Master Plan Report. The documentation shall include a comparison of effects using the existing condition groundwater recharge capacity as a basis. That basis is to be compared with the groundwater recharge capacity of each project alternative, including and excluding recharge enhancement techniques.

3.15.1.6. Alternatives Comparison. The CONSULTANT shall submit drawings and narrative descriptions of the potential alternatives to the DISTRICT for review. The drawings shall be sufficient in detail to describe and compare the alternatives, and to identify the advantages and disadvantages of each. The CONSULTANT shall base the alternatives on topographic mapping and hydrology provided by the DISTRICT, and on new information developed for this study.

3.15.1.7. The CONSULTANT shall meet with the DISTRICT to review and discuss the alternatives, and to select the alternatives for further consideration. Only four (4) major alternatives are authorized for detailed evaluation in the base contract for Work Priority I (downstream of the

Carefree Highway) and three (3) for Work Priority II (upstream of the Carefree Highway).

3.15.1.8. The CONSULTANT shall evaluate a total of seven (7)-selected alternatives at a comparative level of detail, based upon generalized hydraulics and cost estimates, to determine the engineering feasibility and approximate costs.

3.15.1.9. The CONSULTANT shall evaluate the selected alternatives for the potential benefits that the alternative may have on adjacent property.

3.15.1.10. The CONSULTANT shall prepare an Alternatives Formulation Report for both Work Priority I and Work Priority II that shall describe all the alternatives. The report shall discuss the selected alternatives, the discarded alternatives, the results of the alternative analysis, and the associated cost estimates. The report shall also include discussion on public preferences, environmental impacts, effects on groundwater recharge, and the overall success of each alternative in meeting the objectives of the Watercourse Master Plan. The CONSULTANT shall submit a draft report for each Phase for review and comment. The CONSULTANT shall address all appropriate comments before the Alternatives Formulation Reports are incorporated into the final draft of the Skunk Creek Watercourse Master Plan Report.

3.15.1.11. Based on the planning influences analysis, existing landscape character (Task 3.20), and input from the public (Task 3.25), agencies and the DISTRICT, the planned or desired landscape character of the project area will be developed to determine an appropriate landscape design theme for flood control management alternatives. The planned landscape character will respond to the technical considerations proposed in each of the existing landscape character units. Perspective sketches and illustrative sections will be developed and will be used to communicate the planned landscape character of each unit. For Work Priority I of the project, up to four existing landscape character units are anticipated and four flood management alternatives evaluated. One sketch will be prepared to illustrate the planned landscape character for each unit for each alternative or a total of 16 sketches in Work Priority I. For Work Priority II, up to eight existing landscape character units are anticipated in conjunction with evaluation of three flood management alternatives. One sketch will be prepared to illustrate the planned landscape character for each unit for each alternative or a total of 24 sketches in Work Priority II.

3.16. Biological Survey Documentation and Report. The purpose of the biological survey and report is to identify current vegetative conditions in the study area and the potential existence of federally listed and proposed threatened and endangered species (T&E species), designated critical habitat for T&E species, and Wildlife of Special Concern in Arizona (WSCA) as described by the Arizona Game & Fish Department (AGFD). Furthermore, the biological survey will identify any habitat that potentially supports any listed or proposed T&E or WSCA species. The DISTRICT'S goal is to develop the appropriate documentation of the project area in order to help with the planning process.

3.16.1. Study Area. The area to be studied includes Upper Skunk Creek as

described in the General Description and Location.

3.16.2. Listed or Proposed Threatened and Endangered Species and Wildlife of Special Concern in Arizona.

3.16.2.1. This task is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this paragraph.

3.16.2.2. The CONSULTANT shall request an inventory of the T&E and WSCA species that potentially inhabit the project area from the US Fish and Wildlife Service (USFWS) and the AGFD.

3.16.2.3. Based on the results of the inventory request, the CONSULTANT shall conduct a non-intensive field reconnaissance of the project area to determine the potential existence of the T&E and WSCA species, as well as habitat that potentially supports these species, in the project area. If the field reconnaissance identifies the potential existence of T&E species, WSCA species, or habitat that potentially supports these species, the CONSULTANT shall assess the potential adverse affects of the proposed project alternatives on the T&E and WSCA species, as well as the potential adverse affects on the species' habitats.

3.16.2.4. The CONSULTANT shall prepare a brief letter report documenting the results of the reconnaissance. The letter report shall document existing general vegetation communities, habitat types and species observed, and areas within the project that may meet the habitat requirements for threatened or endangered species. Habitat value will be assessed for the study area as high, moderate, or low. The CONSULTANT shall also include recommendations for further study, including intensive surveys and a Biological Assessment, if required.

3.16.2.5. The CONSULTANT shall coordinate with the DISTRICT, USFWS, ADGF, and others as appropriate to determine the need and specific requirements for an intensive biological survey.

3.16.3. Reconnaissance Biological Surveys.

3.16.3.1. This task is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this paragraph.

3.16.3.2. The CONSULTANT shall perform a non-intensive biological field reconnaissance and prepare appropriate documentation to identify existing and potential habitat value. The documentation will be used by the DISTRICT and consulting parties to guide discussions and in preparation for the acquisition and review of biological clearances within the study area. Biological clearances are not included as part of this scope of work.

3.16.3.3. The CONSULTANT shall conduct a biological survey of areas that may be included in the project alternatives requiring construction or creating adverse biological impacts. The survey shall document existing general vegetative communities utilizing aerial photography and field inspection. The limits of the vegetative communities shall be digitally mapped as a layer to the topographic mapping to allow superimposing of the project alternatives and the extent of project impacts. A description of

the existing vegetation shall be provided in a report. During the survey, the CONSULTANT shall document predominant species identified. Species may include both terrestrial and aquatic species.

3.16.3.4. Based on a field investigation of vegetative communities, the CONSULTANT shall document whether the project alternatives contain any suitable habitat (including wetlands and riparian areas) that may potentially support-listed species, as protected by the Endangered Species Act of 1973, and supplements. All areas will be assessed for habitat quality and rated as high, moderate or low.

3.16.3.5. Wetlands Delineation.

The DISTRICT will provide wetlands delineation information required for completion of this Study, if necessary. The CONSULTANT shall consider this information in the formulation and evaluation of the project alternatives and the planning influences analysis. No separate payment will be made for this task. All costs are to be included in Tasks 3.15 and 3.19.

3.17. **Jurisdictional Delineation.** The CONSULTANT shall prepare base data for a Jurisdictional Delineation, in accordance with Army Corps of Engineers (ACE) requirements and section 404 procedures. The base data shall be submitted to the ACE for preparation of a Jurisdictional Delineation. The limits of the jurisdictional delineation prepared by the ACE shall be digitally mapped as a layer to the topographic mapping to allow superimposing of the project alternatives and the extent of project impacts. The above work is not authorized with the Notice to Proceed. In the event the ACE elects to have the CONSULTANT prepare the Jurisdictional Delineation, the DISTRICT may elect to authorize the work to perform the actual delineation. The CONSULTANT shall submit separate cost estimates for the additional work in the fee proposal and all invoices shall separately identify costs for performing the actual Jurisdictional Delineation.

3.18. **Hazardous Waste Inventory.**

3.18.1. This work is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT based upon the results of the reconnaissance. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this task.

3.18.2. The CONSULTANT shall prepare a Hazardous Waste Inventory and records search of state and local historical information of the Study Area. The purpose is to list the documented known areas of improperly disposed waste such as auto fluff disposal and illegal landfills and to generally locate areas that may be within the floodplain, flood way and fringe areas. Where possible, the CONSULTANT shall list the potential hazards which may include a general waste characterization, estimated volume, location and general description of the area as either described in the documentation search, or described in local or municipal agency information surveys. The limits of the hazardous waste inventory will be 500 feet on either side of the Skunk Creek and Unnamed Wash channel banks.

3.19. **Historic Property Documentation, Inventory and National Register of Historic Eligibility Assessment.** The DISTRICT will provide archeological information

required for completion of this Study. The CONSULTANT shall consider this information in the formulation and evaluation of the project alternatives and the planning influences analysis.

3.20 Visual and Recreation Potential Analyses. The CONSULTANT shall prepare a visual analysis to identify the existing and planned landscape character of the project area. Landscape character is the physical appearance of the landscape including the natural, physical and cultural features of the study area that gives it an identity and "sense of place." The existing landscape character should reflect the overall impression of the landscape attributes of the watercourse which should include but not be limited to landform, vegetative patterns, land use, channel characteristics, cultural features, rock forms, and scenic features.

3.20.1 The study area will be broken into landscape character units for the existing condition and depicted on an approximate scaled map. The CONSULTANT will provide a written description of these units along with photographs illustrating the character of the unit. As part of the visual analysis, a composite opportunities and constraints map will be prepared to graphically illustrate the planning influences analysis. Up to 12 landscape character units may be delineated within the project area.

3.20.2 The planning influences analysis will include assessing the views to and from the project area, incorporating wildlife habitat value, identifying prehistoric and historic sites as defined in Task 3.19, noting future land use including recreation facilities, and identifying any multiple-use/multi-modal transportation opportunities.

3.21 Recommended Alternative Analysis.

3.21.1 The CONSULTANT shall refine the design and cost estimates for the recommended alternative identified in the Alternatives Formulation Report. The recommended alternative shall be evaluated to determine alternative project features, site locations, and project alignments to refine the estimated project costs. This task is authorized with the Notice to Proceed for work on Work Priority II only. This task is not authorized with the Notice to Proceed for work on Work Priority I. Work under this task on Work Priority I may be authorized in writing by the DISTRICT. The CONSULTANT shall submit separate cost estimates for Work Priority I work under this task in the fee proposal and all invoices shall separately identify costs for additional work under this task.

3.21.2 The CONSULTANT shall base the designs on available topographic mapping that may be supplemented with field surveys at hydraulically or structurally critical locations.

3.21.3 The CONSULTANT shall refine the design detail to calculate the unit quantities of major project features. The design detail shall be limited to typical sizes and dimensions, but shall be sufficient to determine the costs of the major project components.

3.21.4 The CONSULTANT shall use a level of detail sufficient to determine the approximate environmental impacts, such as approximate depths or areas of disturbance, the types of vegetation, and the properties that will be impacted by the project.

3.21.5 The CONSULTANT shall prepare a Recommended Alternative Design

Report in conformance with the requirements of section 5.1.11.

3.21.6 The CONSULTANT shall include the Recommended Alternative Design Report in the Skunk Creek Watercourse Master Plan Report.

3.22 Skunk Creek Watercourse Master Plan Reports.

3.22.1 The CONSULTANT shall submit a separate draft of the Skunk Creek Watercourse Master Plan Report for Work Priority I (below the Carefree Highway), and a draft of the entire Skunk Creek Watercourse Master Plan Report (including Work Priority I and Work Priority II). The reports shall include final versions of the Data Collection Report, the Potential Lateral Migration Report, the Implementation Plan Report, the Alternatives Formulation Report, and the results of the feasibility analysis of the recommended alternative. The report shall contain plan-profile drawings at a 10 percent level with sufficient detail to either continue the completion of the preliminary final design, or to implement the Watercourse Master Plan. The report shall be reproducible and include a digital original version submitted to the DISTRICT. The CONSULTANT shall submit a draft version of the report for review and comment. The CONSULTANT shall address all comments and submit the final Skunk Creek Watercourse Master Plan Report.

3.22.2 The CONSULTANT shall prepare a separate, reproducible Executive Summary of the Skunk Creek Watercourse Master Plan Report.

3.22 Maintenance Plan. The CONSULTANT shall estimate maintenance requirements and costs for the alternatives in Work Priority I and for the recommended Project alternative in Work Priority II on an annual basis. The life cycle considered shall be 50 years. The DISTRICT will provide maintenance and cost data to the CONSULTANT. This work is not authorized with the Notice to Proceed and may be authorized in writing by the DISTRICT based upon the results of the reconnaissance. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this task.

3.24 Implementation Plan.

3.24.1 The CONSULTANT shall prepare a plan for implementing Work Priority II of the Skunk Creek Watercourse Master Plan. The development of the implementation plan will include incorporation and coordination with the formulation of technical alternatives, valuation of alternatives and the adoption of the recommended alternative. This work is to be integrated with the Public Involvement portion of the project. In addition, the implementation plan shall include assistance to the DISTRICT in the drafting of an ordinance for Maricopa County, assistance in preparation of other necessary ordinances or regulations, and in developing certain property regulation strategies. This task is authorized with the Notice to Proceed. The DISTRICT as required may authorize an optional task for expansion of the Scope of Work, or more detailed analysis of the present scope. This optional task may include assistance to the City of Phoenix on developing an implementation plan for Work Priority I. Project fee proposals and invoices shall list the authorized additional service amounts separately.

3.24.2 The following tasks shall be performed in developing an implementation plan, and are authorized with the Notice to Proceed:

- 3.24.2.1 Coordination and integration with the formulation, evaluation and recommendation of the preferred alternative for the Watercourse Master Plan.
- 3.24.2.2 Coordination and participation in the Public Involvement process.
- 3.24.2.3 Technical assistance and review of ordinances for the City of Phoenix, Community of New River and Maricopa County. Such ordinances to be prepared and provided by the DISTRICT.
- 3.24.2.4 Conducting and participating in meetings with selected individuals.
- 3.24.2.5 Participation in three (3) public meetings as part of the Public Involvement program. The DISTRICT may elect to hold three (3) additional public meetings in Work Priority I and/or Work Priority II as an option.
- 3.24.2.6 Assistance in identifying potentially affected interests.
- 3.24.2.7 Assistance in developing presentation materials.
- 3.24.2.8 Evaluation of potential adverse impacts of the Watercourse Master Plan.
- 3.24.2.9 Evaluation of 404 and 401 permit requirements for alternatives and the recommended plan.
- 3.24.2.10 Identification of possible funding sources and/or mechanisms.
- 3.24.2.11 Preparation of a draft Implementation Plan Report.
- 3.24.2.12 Incorporation of the Implementation Plan, addressing all appropriate review comments, into the final Master Plan report.

3.25 Public Involvement and Intergovernmental Agreement.

3.25.1 The CONSULTANT shall conduct two (2) public meetings throughout the development of Work Priority I, and one (1) public meeting for Work Priority II of the Skunk Creek Watercourse Master Plan. The DISTRICT may elect, as an optional item, to have the CONSULTANT conduct up to three (3) additional public meetings for a total of six (6) public meetings. The CONSULTANT shall participate in the presentation at all the public meetings, and respond to questions as required. The CONSULTANT shall assume responsibility for advertising and arranging the meetings. Advertisements for the public meetings will be placed in the Arizona Republic, Scottsdale Tribune, and Foothills Sentinel two weeks and one week prior to the public meeting. The notice in the Arizona Republic will be placed in Zone 8 (Scottsdale, Carefree, New River, and Paradise Valley) only. The advertisement will be equivalent to a 4-column inch by 10-column inch notice. The DISTRICT may be required to submit the notice to the newspaper in order to receive the non-profit rate for advertising the meeting. The CONSULTANT will develop and maintain a mailing list and list of key stakeholders in conjunction with the DISTRICT and the City of Phoenix. Up to 1,500 individuals, agencies, and organizations will be on the direct mail list to receive notice of the public meetings. The DISTRICT will be responsible for providing insurance for the meeting locations and, if necessary, any fee associated with the use of the meeting facilities. The CONSULTANT will be responsible for providing refreshments at the public meetings. The public meetings shall occur within the project area, and be held at the following milestones:

3.25.1.1 Within ten (10) weeks after Notice-to-Proceed. The purpose of the meeting shall be to introduce the study team members, solicit issues and concerns, and explain the purpose and need for the project.

3.25.1.2 After the formulation of the initial alternatives. The purpose of the meeting shall be to request public input regarding the alternatives, public preferences, and any recommendations the public may have for other alternatives that need to be evaluated.

3.25.1.3 Upon completion of the draft Alternative Analysis Report, the Cultural Resources Inventory, and the Biological Assessment. The purpose of the meeting is to present the results of the alternatives analysis and the recommended alternative.

3.25.1.4 As an option, three (3) additional meetings may be scheduled as required, but are not authorized with the Notice to Proceed. One of these optional meetings would occur after the alternative analysis has been completed, and prior to establishing a preferred alternative. The purpose of this meeting shall be to request input from the public on the alternatives. The CONSULTANT shall submit separate cost estimates for this work in the fee proposal and all invoices shall separately identify costs for work under this task.

3.25.2 Additional meetings. The CONSULTANT may be directed to participate in as many as twelve (12) additional meetings with the governing bodies of the City of Phoenix, and Maricopa County. These meetings and payment are not authorized with the execution of the contract, but will be authorized in writing by the DISTRICT as required. Project fee proposals and invoices shall list the authorized amounts for the additional meetings separately from the balance of the contract amount, and shall list the total amounts authorized.

3.25.3 The CONSULTANT shall staff and attend each public involvement activity. The CONSULTANT shall respond to the public's comments by making formal presentations or by written document addressing the issue.

3.25.4 The CONSULTANT shall prepare all necessary notices and display materials for the public meetings, such as display boards, information summaries, questionnaires, and other meeting documents. The CONSULTANT shall also prepare appropriate project mailings including an exhibit (8-½ inch x 11 inch) showing the general project features or project impact area. Up to twenty four (24) presentation exhibits (34 inch by 40 inch), Cactus color output quality, mounted on gatorboard will be provided at each public meeting. The presentation exhibits will be prepared in electronic format.

3.25.5 The CONSULTANT shall prepare three (3) newsletters for the project. These communiqués will discuss issues brought out at public meetings, solicit public input, provide information on the alternatives, reiterate the objectives of the project, and announce upcoming meetings. The format of the newsletters will be a three color plus black 11 inch by 17 inch folded communiqué. A response card will be included with the newsletter as a separate piece with a bulk rate postage stamp on the card.

3.25.5.1 The DISTRICT may elect, as an optional item, to have the CONSULTANT prepare up to three (3) additional newsletters for a total of six (6) newsletters. The CONSULTANT will be responsible for printing 2,500 copies of each newsletter and distribution of the newsletters.

3.25.5.2 The DISTRICT may elect, as an optional item, to have the CONSULTANT print and distribute up to 1,500 additional copies of each newsletter for a total of 4,000 copies. The preparation and printing of the three additional newsletters are not authorized with the execution of the contract, but will be authorized in writing by the DISTRICT as required. Project fee proposals and invoices shall list the authorized amounts for the newsletters separately from the balance of the contract amount, and shall list the total amounts authorized.

3.25.6 The CONSULTANT shall prepare a public involvement plan. Specific milestones of the public involvement process for the project will be developed into this plan, including the number and types of public meetings and outreaches, the use and frequency of communiqués such as flyers and newsletters, the development of mailing lists and lists of key constituencies and stakeholders, and the methods of providing opportunities for the public to influence the decision making process. The preparation of a public involvement plan is authorized with the execution of the contract. Eighteen (18) three-ring notebooks will be prepared of the public involvement plan.

3.25.7 The CONSULTANT shall attend up to twenty-eight (28) individual one-on-one meetings at the request of interested parties, such as civic groups, environmental groups, planning committees and homeowners associations. The meetings will be informational in nature and will attempt to gain an understanding of the concerns and issues of the potentially affected interests. These meetings and payment are not authorized with the execution of the contract, but will be authorized in writing by the DISTRICT as required. Project fee proposals and invoices shall list the authorized amounts for the additional meetings separately from the balance of the contract amount, and shall list the total amounts authorized.

3.25.8 The CONSULTANT will develop seven (7) project presentations in PowerPoint format for use by the DISTRICT. The presentations will be submitted to the DISTRICT in electronic media on compact disk that is useable in DISTRICT equipment. Each presentation is estimated to be approximately 30 slides/frames in length. The PowerPoint presentation programs are not authorized with the execution of the contract, but will be authorized in writing by the DISTRICT as required. Project fee proposals and invoices shall list the authorized amounts for the canned presentations separately from the balance of the contract amount, and shall list the total amounts authorized.

3.25.9 The CONSULTANT will develop a media program in conjunction with the public involvement program. The media program will consist of keeping the news media informed of the progress of the project. Five appropriately timed news releases will be sent to the Arizona Republic. Key members of the news media will be contacted five times during the project to make sure they are aware of the progress of the project. The media program is not authorized with the execution of the contract, but will be authorized in writing by the DISTRICT as required. Project fee proposals and invoices shall list the authorized amounts for the media program separately from the balance of the contract amount, and shall list the total amounts authorized.

3.26 Rights-of-Way and Easements.

3.26.1 The DISTRICT will notify all property owners and obtain any necessary

Rights of Entry for the study area. The CONSULTANT shall furnish the DISTRICT with a list of parcels requiring right of entry. If additional parcels need to be investigated, this optional work is not authorized with the Notice To Proceed and may be authorized in writing by the DISTRICT. The CONSULTANT shall submit a separate cost estimate for this work in the fee proposal and all invoices shall separately identify costs for work under this paragraph.

3.26.2 Existing rights of way adjacent to the project site shall be researched and identified by the CONSULTANT.

3.26.3 The CONSULTANT shall review parcel ownership maps and identify which properties will be affected by the proposed project.

3.26.4 The CONSULTANT shall identify permanent right-of-way and easement requirements necessary for the project features.

3.26.5 The CONSULTANT shall identify any temporary construction easements required to complete the project.

3.26.6 The CONSULTANT shall prepare a base exhibit map of the study area that depicts the 100-year existing and future condition floodplain and floodway boundaries, and the erosion hazard zones, on the parcel boundaries provided by the DISTRICT. The area of impact of the above boundaries will be calculated using GIS for each parcel and tabulated in a table format for inclusion in the Recommended Alternative Design Report for Work Priority II. This includes all parcels except for those developments platted within two years previous and subsequent to contract signing, and government owned land.

3.27 **Permits and Approvals.**

3.27.1 The CONSULTANT shall be responsible for determining if plan approvals, permits, or licenses from other agencies will be required. Other agencies may include, but may not be limited to: municipalities, tribal governments, the County Health Department, the Arizona Department of Environmental Quality, the Arizona Department of Water Resources, the US Army Corps of Engineers, railroads, utilities, and water districts. Requirements for permits shall be documented in the appropriate study report.

3.27.1.1 The DISTRICT will be responsible for coordination with the US Army Corps of Engineers regarding the Clean Water Act Section 404, and the Arizona Department of Environmental Quality for 401 permits.

3.27.1.2 The CONSULTANT shall provide the total surface area, in acres, of impact within the jurisdictional boundaries and shall provide an estimate of the volume of material to be excavated or placed within the jurisdictional limits. Where possible the CONSULTANT shall modify designs to minimize the impacts of the project to qualify for a nationwide permit.

3.27.1.3 The CONSULTANT shall provide additional analysis and cost estimates to assist the DISTRICT in identifying modifications to the project that may provide environmental enhancements and may serve to mitigate adverse project impacts.

4. **REPORTS**

4.1. **Data Collection Report.** The Data Collection Report will contain a description of

the known flooding problems within the study area, the data collected, and the existing drainage structures in the area, and discuss any surveying that has been performed. Existing major natural washes and existing and planned man-made drainage facilities in the watershed will be shown on the Existing Facilities Exhibit to be submitted with the Data Collection Report. The Existing Facilities Exhibit will be prepared in AutoCAD format based on the DISTRICT's GIS base mapping which will be provided by the DISTRICT in AutoCAD format.

4.2. **Project Survey Report.** Survey data will be documented in a Project Survey Report. Copies of all survey note books or printout of digital files developed with data collectors will be provided. The horizontal and vertical benchmarks used for the survey shall be documented along with documentation of the datum upon which the benchmark was originally established. Conversion to other datums as required herein shall be documented in the report. A summary table of the ERM's and benchmarks shall be included.

4.3. **Alternatives Formulation Report.** Separate Alternatives Formulation Reports for Work Priority I and the total project shall be prepared containing narrative descriptions of the alternatives considered and discarded, the alternatives selected for analysis, the results of the analysis of alternatives, and comparative cost estimates. The advantages and disadvantages and general environmental impacts of each alternative shall be identified. The recommended alternative shall be identified in the report. Results from the brainstorming sessions and the alternatives analysis meeting will be documented in the Alternatives Formulation Report.

4.3.1. The Alternatives Formulation Report format should include the following as a minimum:

- Summary
- Description of Study Area
- Scope of Project
- Selection of Alternative Plan
- Recommended Alternative
- Proposed structural Improvements
- Non-structural Improvements
- Costs
- Areas of Flooding
- Summary of Existing Flooding Complaints
- Areas and locations of potential Flooding
- Basin Management Alternatives
- Alternatives Evaluation
- Evaluation Criteria
- Evaluation of Alternatives
- Recommended Alternative
- References
- List of Figures and a Location Map
- Topographic Map
- Areas of Potential Flooding
- Land Use/Zoning Map
- Map depicting proposed ADMP

List of Tables
Peak Discharges
Unit Costs for Features

4.3.2. The Work Priority I Alternatives Formulation Report shall not include a Recommended Alternative.

4.3.3. The CONSULTANT shall submit the Work Priority I and total project reports in draft form for review by the DISTRICT. The Work Priority I report shall be submitted to the DISTRICT and the City of Phoenix for review. Upon receipt of review comments, the CONSULTANT shall incorporate appropriate revisions and complete the final report.

4.4. **Recommended Alternative Design Report.**

4.4.1. The CONSULTANT shall prepare a design and cost estimate for the preferred alternative utilizing available and new engineering hydrology. The preferred alternative shall be designed and plans prepared to the 10% level of detail. It is appropriate to base designs upon available topographic mapping, supplemented with field surveys at hydraulically or structurally critical locations, and the 100-year preferred alternative alignment. Design detail shall be refined to allow the calculation of approximate unit quantities of major project features. Design of the project features shall be sufficient to determine the costs of constructing the 10-year alternative.

4.4.2. The CONSULTANT shall prepare a Draft Design Summary Report DSR that summarizes the data and calculations collected and generated as part of the Preliminary Design Phase. The Draft DSR shall document the development of the preferred alternative. Environmental impacts and project permitting requirements shall be summarized. The major project construction and special design considerations shall be described. The Draft DSR shall include the 10% plans at a scale of 1" = 200' drawings and exhibits which show the major project features and typical sections, and which provides inclusion of all required data which is easily read and interpreted. The DSR and plans shall be submitted to the DISTRICT and to the agencies identified in Section 1.5 for review. Digital files containing the project drawings, figures and exhibits shall be submitted with the final report.

4.4.3. Upon acceptance of the recommended alternative, the CONSULTANT shall prepare a Recommended Alternative Design Report that summarizes the study data. Environmental impacts and project permitting requirements shall be summarized. The major project construction items and special design considerations shall be described. The report shall include drawings and exhibits that show the major project features and typical sections. The CONSULTANT shall develop hydrology for the final plan in place using the hydrologic model prepared by the CONSULTANT and submitted to the DISTRICT. The revision will include the effects of the recommended drainage design. The report will contain the design criteria and objectives applied during the development of the Skunk Creek Watercourse Master Plan , including:

Maximum allowable velocities.
Channel characteristics, e.g., alignments and cross-sections.
Type(s) of drop structures.
Provision for runoff in excess of design capacity and maximum depth of

flow in streets.

Maximum depth of basin and required drain time.

Maximum size or frequency-capacity for pipes and box culverts.

Selection of dip vs. culvert crossings, and 100-year "all weather" crossings.

5. DELIVERABLES

5.1. The CONSULTANT shall submit 4 copies of each deliverable document, as outlined in this scope of work, to the DISTRICT, and 2 copies to each agency identified in paragraph 1.5, unless otherwise noted. The deliverables include:

- 5.1.1. The project schedule (2.1) – DISTRICT only, 1 copy
- 5.1.2. Estimated project billing (3.4.1) – DISTRICT only, 1 copy
- 5.1.3. Monthly invoices (3.4.2) – DISTRICT only
- 5.1.4. Monthly progress reports (3.4.4) – DISTRICT only, 1 copy
- 5.1.5. Minutes of meetings (3.6.2) – DISTRICT only, 1 copy
- 5.1.6. Data Collection Report (3.8.2)
- 5.1.7. Project Survey Report (3.9.7)
- 5.1.8. Lateral Migration Analysis Report (3.13.2)
- 5.1.9. Alternatives Formulation Report (3.15.1.10)
- 5.1.10. Biological Survey Report (3.16)
- 5.1.11. Recommended Alternative Design Report (3.21.5)
- 5.1.12. Skunk Creek Watercourse Master Plan Report (3.22) (DISTRICT only, 1 original reproducible)
- 5.1.13. Executive Summary Report (3.22.2) (DISTRICT only, 1 original reproducible)
- 5.1.14. Implementation Plan (3.24)

ATTACHMENT 1

Project Fee Summary Tables

ESTIMATED TOTAL PROJECT COST SUMMARY TABLE

Average Hourly Rate Summary

Consultant	Authorized Manhours	Optional Manhours	Total Manhours	Authorized Labor Cost	Optional Labor Cost	Total Labor Cost	Total Project Average Hourly Rate
ASL Consulting Engineers	6,492	1,140	7,632	\$487,984.45	\$96,633.94	\$584,618.38	\$77 per hour
Stantec Consulting, Inc.	3,182	88	3,270	\$245,444.86	\$10,639.44	\$256,084.30	\$78 per hour
JE Fuller/ Hydrology & Geomorphology, Inc.	3,058	68	3,126	\$208,960.64	\$5,370.62	\$214,331.26	\$69 per hour
Logan Simpson Design Inc.	2,441	2,552	4,993	\$136,900.50	\$122,474.00	\$259,374.50	\$52 per hour
Project Totals:	15,173	3,848	19,021	\$1,079,290.45	\$235,118.00	\$1,314,408.45	\$69 per hour

NOTE: Shaded manhours include actual manhours for a 3-man survey crew.

Total Project Cost

Consultant	Authorized Total Cost	Optional Total Cost	Total Cost
ASL Consulting Engineers	\$529,512.45	\$103,317.69	\$632,830.13
Stantec Consulting, Inc.	\$246,884.86	\$10,824.44	\$257,709.30
JE Fuller/ Hydrology & Geomorphology, Inc.	\$220,870.64	\$5,530.62	\$226,401.26
Logan Simpson Design Inc.	\$167,090.50	\$179,966.00	\$347,056.50
Total Project Cost:	\$1,164,358.45	\$299,638.75	\$1,463,997.20

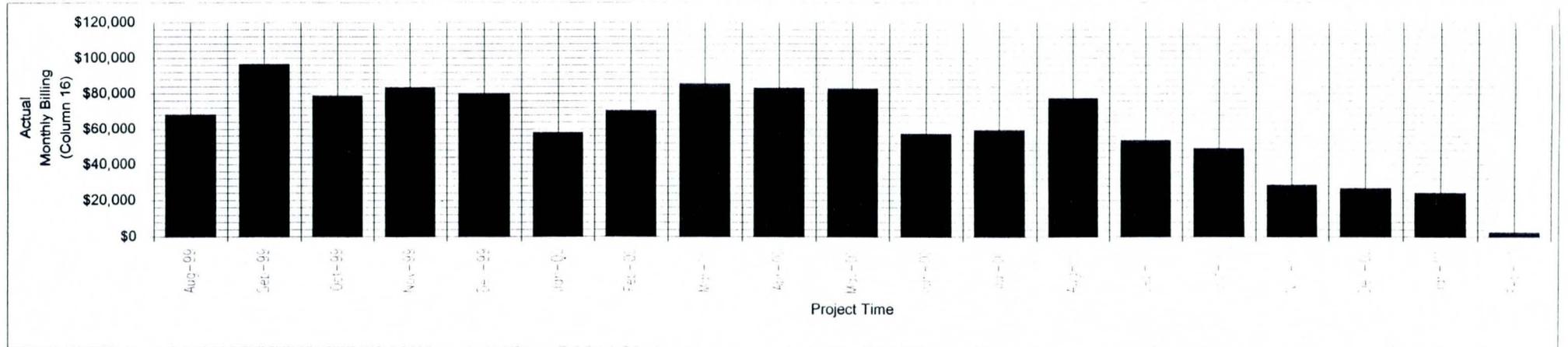
Note: The Total Project Cost includes direct labor, overhead, expenses, profit and subconsultant costs.

SKUNK CREEK WATERCOURSE MASTER PLAN

FCD 99-23

Summary of Estimated Authorized Project Fee Distribution Over Contract Duration

Year	Month	ASL				Stantec			JEF			LSD			Totals	Totals by Quarter	Cumulative Totals
		Labor	Expenses	Minor Subs	Sub-Total	Labor	Expenses	Sub-Total	Labor	Expenses	Sub-Total	Labor	Expenses	Sub-Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1999	Aug-99	\$35,182	\$332	\$10,000	\$45,514	\$7,022	\$41	\$7,064	\$12,363	\$705	\$13,068	\$2,386	\$16	\$2,402	\$68,047	\$164,530	\$164,530
	Sep-99	\$44,195	\$416	\$11,438	\$56,049	\$10,053	\$59	\$10,112	\$18,964	\$1,081	\$20,045	\$5,361	\$4,916	\$10,277	\$96,483		
	Oct-99	\$25,438	\$240	\$2,000	\$27,678	\$16,629	\$98	\$16,727	\$20,502	\$1,169	\$21,671	\$7,636	\$4,931	\$12,567	\$78,643		
	Nov-99	\$18,664	\$176	\$1,500	\$20,340	\$25,304	\$148	\$25,453	\$23,467	\$1,338	\$24,804	\$12,608	\$84	\$12,691	\$83,288		
	Dec-99	\$16,341	\$154	\$2,500	\$18,995	\$25,159	\$148	\$25,307	\$23,185	\$1,321	\$24,506	\$11,163	\$74	\$11,237	\$80,045	\$241,977	\$406,506
2000	Jan-00	\$17,024	\$160	\$0	\$17,184	\$10,129	\$59	\$10,188	\$15,547	\$886	\$16,433	\$9,180	\$4,941	\$14,122	\$57,928	\$213,821	\$620,328
	Feb-00	\$26,205	\$247	\$0	\$26,452	\$12,479	\$73	\$12,552	\$17,777	\$1,013	\$18,791	\$7,648	\$4,931	\$12,579	\$70,374		
	Mar-00	\$38,660	\$364	\$0	\$39,024	\$15,300	\$90	\$15,389	\$14,718	\$839	\$15,556	\$15,448	\$102	\$15,550	\$85,520		
	Apr-00	\$39,218	\$370	\$0	\$39,588	\$15,230	\$89	\$15,319	\$7,437	\$424	\$7,861	\$15,190	\$4,981	\$20,171	\$82,938		
	May-00	\$35,725	\$337	\$1,000	\$37,062	\$17,719	\$104	\$17,823	\$8,604	\$490	\$9,094	\$13,705	\$4,971	\$18,677	\$82,655		
	Jun-00	\$26,711	\$252	\$2,000	\$28,962	\$15,649	\$92	\$15,741	\$6,751	\$385	\$7,136	\$5,465	\$36	\$5,501	\$57,340	\$222,934	\$843,262
	Jul-00	\$26,249	\$247	\$4,500	\$30,996	\$15,511	\$91	\$15,602	\$6,849	\$390	\$7,239	\$5,396	\$36	\$5,432	\$59,269		
	Aug-00	\$42,124	\$397	\$2,000	\$44,520	\$16,658	\$98	\$16,755	\$7,568	\$431	\$7,999	\$7,988	\$53	\$8,041	\$77,316		
	Sep-00	\$26,140	\$246	\$0	\$26,387	\$11,983	\$70	\$12,053	\$7,506	\$428	\$7,933	\$6,987	\$46	\$7,034	\$53,406	\$189,991	\$1,033,253
	Oct-00	\$25,560	\$241	\$0	\$25,801	\$10,670	\$63	\$10,733	\$6,692	\$381	\$7,073	\$5,360	\$36	\$5,396	\$49,002		
	Nov-00	\$15,604	\$147	\$0	\$15,751	\$6,802	\$40	\$6,842	\$3,887	\$222	\$4,108	\$1,775	\$12	\$1,786	\$28,487		
	Dec-00	\$14,139	\$133	\$0	\$14,272	\$6,540	\$38	\$6,578	\$3,707	\$211	\$3,919	\$1,709	\$11	\$1,720	\$26,489	\$103,979	\$1,137,232
2001	Jan-01	\$12,586	\$119	\$0	\$12,705	\$6,079	\$36	\$6,115	\$3,268	\$186	\$3,455	\$1,701	\$11	\$1,712	\$23,987	\$26,279	\$1,163,511
	Feb-01	\$1,373	\$13	\$0	\$1,386	\$529	\$3	\$532	\$169	\$10	\$179	\$195	\$1	\$196	\$2,292		
Total Est. Future Billings:		\$487,137	\$4,590	\$36,938	\$528,665	\$245,445	\$1,440	\$246,885	\$208,961	\$11,910	\$220,871	\$136,901	\$30,190	\$167,091	\$1,163,511		

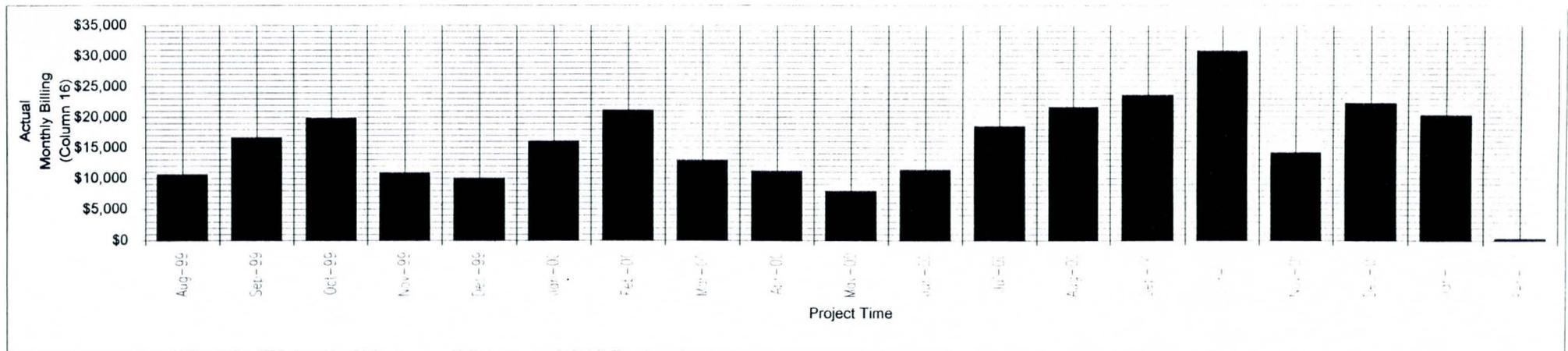


SKUNK CREEK WATERCOURSE MASTER PLAN

FCD 99-23

Summary of Estimated Optional Project Fee Distribution Over Contract Duration

Year	Month	ASL				Stantec			JEF			LSD			Totals	Totals by Quarter	Cumulative Totals
		Labor	Expenses	Minor Subs	Sub-Total	Labor	Expenses	Sub-Total	Labor	Expenses	Sub-Total	Labor	Expenses	Sub-Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1999	Aug-99	\$2,940	\$188	\$0	\$3,128	\$499	\$9	\$508	\$227	\$7	\$234	\$6,434	\$239	\$6,673	\$10,542		
	Sep-99	\$4,620	\$296	\$0	\$4,915	\$784	\$14	\$797	\$357	\$11	\$368	\$10,111	\$376	\$10,487	\$16,567	\$27,109	\$27,109
	Oct-99	\$4,410	\$282	\$0	\$4,692	\$749	\$13	\$762	\$340	\$10	\$350	\$9,650	\$4,302	\$13,952	\$19,756		
	Nov-99	\$2,701	\$173	\$0	\$2,874	\$517	\$9	\$526	\$129	\$4	\$133	\$7,064	\$262	\$7,326	\$10,859		
	Dec-99	\$2,364	\$151	\$0	\$2,515	\$477	\$8	\$485	\$81	\$2	\$84	\$6,652	\$247	\$6,899	\$9,983	\$40,598	\$67,707
2000	Jan-00	\$4,593	\$294	\$0	\$4,887	\$749	\$13	\$762	\$341	\$10	\$351	\$9,652	\$358	\$10,010	\$16,010		
	Feb-00	\$5,685	\$364	\$0	\$6,049	\$749	\$13	\$762	\$341	\$10	\$351	\$9,652	\$4,302	\$13,953	\$21,116		
	Mar-00	\$5,835	\$373	\$0	\$6,209	\$819	\$14	\$834	\$373	\$11	\$384	\$5,300	\$197	\$5,497	\$12,923	\$50,049	\$117,756
	Apr-00	\$6,665	\$426	\$0	\$7,091	\$522	\$9	\$531	\$162	\$5	\$167	\$3,251	\$121	\$3,372	\$11,162		
	May-00	\$3,024	\$194	\$0	\$3,218	\$381	\$7	\$388	\$0	\$0	\$0	\$336	\$3,956	\$4,292	\$7,898		
	Jun-00	\$3,808	\$244	\$0	\$4,052	\$365	\$6	\$371	\$0	\$0	\$0	\$1,979	\$4,954	\$6,933	\$11,356	\$30,415	\$148,171
	Jul-00	\$3,406	\$218	\$0	\$3,624	\$445	\$8	\$453	\$71	\$2	\$73	\$5,340	\$9,022	\$14,363	\$18,512		
	Aug-00	\$7,504	\$480	\$500	\$8,484	\$699	\$12	\$711	\$232	\$7	\$239	\$11,756	\$437	\$12,193	\$21,626		
	Sep-00	\$7,953	\$509	\$0	\$8,462	\$639	\$11	\$650	\$212	\$6	\$218	\$9,039	\$5,216	\$14,255	\$23,585	\$63,723	\$211,894
	Oct-00	\$12,756	\$816	\$0	\$13,572	\$558	\$10	\$568	\$1,281	\$38	\$1,319	\$6,217	\$9,055	\$15,271	\$30,730		
	Nov-00	\$9,705	\$621	\$0	\$10,326	\$365	\$6	\$371	\$871	\$26	\$897	\$2,487	\$92	\$2,580	\$14,173		
	Dec-00	\$6,138	\$393	\$0	\$6,531	\$611	\$11	\$622	\$192	\$6	\$197	\$9,695	\$5,241	\$14,936	\$22,285	\$67,189	\$279,083
2001	Jan-01	\$2,387	\$153	\$0	\$2,540	\$596	\$10	\$606	\$161	\$5	\$166	\$7,860	\$9,116	\$16,975	\$20,288		
	Feb-01	\$141	\$9	\$0	\$150	\$116	\$2	\$118	\$0	\$0	\$0	\$0	\$0	\$0	\$268	\$20,556	\$299,639
Total Est. Future Billings:		\$96,634	\$6,184	\$500	\$103,318	\$10,639	\$185	\$10,824	\$5,371	\$160	\$5,531	\$122,474	\$57,492	\$179,966	\$299,639		



ATTACHMENT 2

Fee Proposal Forms for ASL Consulting Engineers

SUBCONSULTANT AUTHORIZED FEES		
Name of Subconsultant	Task	Cost
Stantec Consulting, Inc.	3.5, 3.6, 3.7, 3.8, 3.11, 3.12, 3.15, 3.21, 3.22, and 3.25.1	\$246,884.86
JE Fuller/ Hydrology & Geomorphology, Inc.	3.5, 3.6, 3.7, 3.8, 3.10, 3.12, 3.13, 3.14, 3.15, 3.21, 3.22, 3.25.1 and 3.26	\$220,870.64
Logan Simpson Design Inc.	3.5, 3.6, 3.7, 3.15, 3.20, 3.21, 3.22, 3.24, 3.25.1 and 3.25.5	\$167,090.50
Southwest Ground-water Consultants, Inc.	3.15	\$5,000.00
Aerial Mapping Company, Inc.	3.9, 3.10 and 3.26	\$28,438.00
AGRA Earth & Environmental	3.13	\$3,500.00

Total Authorized Subconsultants: \$671,784.00
Total Authorized Labor: \$435,700.40
Total Authorized Expenses: \$4,590.00

Total Authorized Consultant Cost \$1,112,074.40
Net Authorized Fee (Total Labor x 12%): \$52,284.05

TOTAL AUTHORIZED PROPOSED FEE: \$1,164,358.45

SUBCONSULTANT OPTIONAL FEES		
Name of Subconsultant	Task	Cost
Stantec Consulting, Inc.	3.25.1.4, 3.25.2, and 3.25.7	\$10,824.44
JE Fuller/ Hydrology & Geomorphology, Inc.	3.23, 3.25.1.4 and 3.25.2	\$5,530.62
Logan Simpson Design Inc.	3.16, 3.17, 3.18, 3.25.1.4, 3.25.2, 3.25.5.1, 3.25.5.2, 3.25.7, 3.25.8, 3.25.9 and 3.27	\$179,966.00
Southwest Ground-water Consultants, Inc.	None	\$0.00
Aerial Mapping Company, Inc.	3.26	\$500.00
AGRA Earth & Environmental	None	\$0.00

Total Optional Subconsultants: \$196,821.06
Total Optional Labor: \$86,280.30
Total Optional Expenses: \$6,183.75

Total Optional Consultant Cost \$289,285.11
Net Optional Fee (Total Labor x 12%): \$10,353.64

TOTAL OPTIONAL PROPOSED FEE: \$299,638.75

TOTAL PROPOSED FEE SUMMARY:
Total Subconsultants: **\$868,605.07**
Total Labor: **\$521,980.70**
Total Expenses: **\$10,773.75**

Total Consultant Cost **\$1,401,359.52**
Net Fee (Total Labor x 12%): **\$62,637.68**

TOTAL PROPOSED FEE: **\$1,463,997.20**

Signature

Name (print)

Title

Date

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT BASE COST SUMMARY**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/25/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONTRACT COST

Task No.	Contract Task/Phase	Total Cost Including Direct Expenses & Minor Subconsultants				Totals
		ASL	Stantec	JEF	LSD	
Base Contract Tasks						
3.1	Project Management (18 months)	\$42,557.79	\$0.00	\$0.00	\$0.00	\$42,557.79
3.5	Coordination	\$45,219.69	\$25,171.72	\$13,770.62	\$7,482.00	\$91,644.04
3.6	Meetings (other than defined elsewhere)	\$19,536.24	\$16,650.38	\$5,362.21	\$7,635.50	\$49,184.34
3.7	Site Visits	\$14,964.47	\$12,949.62	\$4,290.42	\$3,393.00	\$35,597.50
3.8	Data Collection and Analysis	\$13,399.51	\$5,709.88	\$9,858.88	\$0.00	\$28,968.27
3.9	Field Surveying and Mapping	\$71,880.48	\$0.00	\$0.00	\$0.00	\$71,880.48
3.10	Hydrologic Analysis	\$37,631.89	\$0.00	\$5,704.83	\$0.00	\$43,336.72
3.11	Hydraulics Analysis	\$16,108.57	\$68,536.22	\$0.00	\$0.00	\$84,644.78
3.12	Sedimentation	\$8,970.58	\$37,817.47	\$17,227.76	\$0.00	\$64,015.82
3.13	Potential Lateral Migration Analysis	\$14,975.52	\$0.00	\$103,791.12	\$0.00	\$118,766.64
3.14	Flood Warning	\$457.74	\$0.00	\$2,959.04	\$0.00	\$3,416.78
3.15	Alternatives Analysis	\$118,035.22	\$39,728.70	\$31,870.72	\$20,487.00	\$210,121.63
3.20	Visual and Recreational Potential Analysis	\$1,408.40	\$0.00	\$0.00	\$26,112.00	\$27,520.40
3.21	Recommended Alternative Analysis	\$27,899.87	\$12,700.80	\$7,719.04	\$10,103.00	\$58,422.71
3.22	Watercourse Master Plan Reports	\$41,289.21	\$26,180.13	\$16,576.00	\$2,640.00	\$86,685.34
3.24	Implementation Plan	\$17,084.59	\$0.00	\$0.00	\$6,957.00	\$24,041.59
3.25.1	Public Involvement: 3 public meetings	\$6,973.26	\$1,439.95	\$1,068.00	\$52,582.50	\$62,063.71
3.25.5	Public Involvement: 3 Newsletters	\$4,473.22	\$0.00	\$0.00	\$29,698.50	\$34,171.72
3.26	Rights-of-Way and Easements	\$21,208.25	\$0.00	\$672.00	\$0.00	\$21,880.25
3.27	Permits and Approvals	\$5,437.94	\$0.00	\$0.00	\$0.00	\$5,437.94
Total Base Contract Cost:		\$529,512.45	\$248,884.86	\$220,870.64	\$167,090.50	\$1,164,358.45
Optional Tasks						
3.1.4	Project Management (18 months)	\$7,781.65	\$0.00	\$0.00	\$0.00	\$7,781.65
3.16	Biological Survey and Documentation	\$0.00	\$0.00	\$0.00	\$17,981.00	\$17,981.00
3.17	Jurisdictional Delineation	\$4,628.96	\$0.00	\$0.00	\$17,784.00	\$22,412.96
3.18	Hazardous Waste Inventory	\$1,901.31	\$0.00	\$0.00	\$3,558.00	\$5,459.31
3.23	Maintenance Plan	\$8,938.16	\$0.00	\$2,010.62	\$0.00	\$10,948.78
3.24	Expanded Implementation Plan	\$13,994.11	\$0.00	\$0.00	\$0.00	\$13,994.11
3.25.1.4	Public Involvement: 3 public meetings	\$6,990.76	\$1,459.95	\$1,088.00	\$52,582.50	\$62,121.21
3.25.2	Public Involvement: Additional Meetings	\$5,400.98	\$5,839.71	\$2,432.00	\$2,166.00	\$15,838.69
3.25.5.1	Public Involvement: Newsletters	\$4,473.22	\$0.00	\$0.00	\$29,698.50	\$34,171.72
3.25.5.2	Public Involvement: Newsletters, add. copies	\$0.00	\$0.00	\$0.00	\$23,660.00	\$23,660.00
3.25.7	Public Involvement: Individual Meetings	\$10,140.55	\$3,524.78	\$0.00	\$7,376.00	\$21,041.33
3.25.8	Public Involvement: PowerPoint Presentations	\$4,442.48	\$0.00	\$0.00	\$18,210.00	\$22,652.48
3.25.9	Public Involvement: Media Program	\$0.00	\$0.00	\$0.00	\$4,970.00	\$4,970.00
3.26	Rights-of-Way and Easements	\$12,693.55	\$0.00	\$0.00	\$0.00	\$12,693.55
3.27	Permits and Approvals	\$9,909.18	\$0.00	\$0.00	\$1,980.00	\$11,889.18
3.1.5	CADD Contingency	\$12,022.78	\$0.00	\$0.00	\$0.00	\$12,022.78
Total Optional Contract Cost:		\$103,317.89	\$10,824.44	\$5,530.62	\$179,966.00	\$299,638.75
Total Contract Cost:		\$632,830.14	\$257,709.30	\$226,401.26	\$347,056.50	\$1,463,997.20

EXHIBIT A

CONSULTANT/SUBCONSULTANT AUTHORIZED COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: ASL Consulting Engineers

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	1268	\$40.87	\$51,823.16
Senior Engineer	616	\$38.46	\$23,691.36
Engineer	648	\$28.57	\$18,513.36
EIT	720	\$23.93	\$17,229.60
CADD	1517	\$23.21	\$35,209.57
Survey Chief	88	\$30.71	\$2,702.48
Survey Crew (3 man)	326	\$44.64	\$14,552.64
Clerical	657	\$16.07	\$10,557.99

Subtotal Labor:	\$174,280.16
Overhead @ 150% of Labor:	\$261,420.24
Total Labor:	<u>\$435,700.40</u>

Salary Fringes:	45%
G&A Overhead:	105%

AUTHORIZED DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$1,890.00
Photography	\$300.00
Outside reproduction and binders	\$2,000.00
Miscellaneous materials	\$400.00
Refreshments	\$0.00
Attorney consultation	\$0.00

Total Expenses:	<u>\$4,590.00</u>
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EXHIBIT A

CONSULTANT/SUBCONSULTANT OPTIONAL COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: ASL Consulting Engineers
 PROJECT NAME: Skunk Creek Watercourse Master Plan
 CONTRACT NO: 99-23
 CHANGE ORDER NO:
 DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	268	\$40.87	\$10,953.16
Senior Engineer	214	\$38.46	\$8,230.44
Engineer	81	\$28.57	\$2,314.17
EIT	88	\$23.93	\$2,105.84
CADD	378	\$23.21	\$8,773.38
Survey Chief	24	\$30.71	\$737.04
Survey Crew (3 man)	0	\$44.64	\$0.00
Clerical	87	\$16.07	\$1,398.09

Subtotal Labor:	\$34,512.12
Overhead @ 150% of Labor:	\$51,768.18
Total Labor:	<u>\$86,280.30</u>

Salary Fringes:	45%
G&A Overhead:	105%

OPTIONAL DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$183.75
Photography	\$0.00
Outside reproduction and binders	\$0.00
Miscellaneous materials	\$0.00
Refreshments	\$6,000.00
Attorney consultation	\$0.00

Total Expenses:	<u>\$6,183.75</u>
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED PROJECT MANHOURS

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO: n/a

Task Number	Included Task Numbers/Scope	Contract Task Description	Labor Classifications								Total Manhours	Total Labor	Total Expenses	Total Minor Subs	Total Cost
			Proj. Mgr. \$115.00 \$/hr	Sr. Assoc. \$124.99 \$/hr	Proj. Egr \$85.01 \$/hr	Egr \$75.01 \$/hr	EIT \$64.99 \$/hr	CADD \$60.00 \$/hr	Clerical \$40.01 \$/hr	n/a \$0.00 \$/hr					
Base Contract Tasks															
3.1	3.3, 3.3, 3.4	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.5	all subtasks	Coordination	26	46	142	24	0	0	64	0	302	\$25,171.72	\$0.00	\$0.00	\$25,171.72
3.6	all subtasks	Meetings (other than defined elsewhere)	40	36	80	0	0	0	16	0	172	\$16,540.38	\$110.00	\$0.00	\$16,650.38
3.7	all subtasks	Site Visits	24	24	24	24	48	0	0	0	144	\$12,719.62	\$230.00	\$0.00	\$12,949.62
3.8	all subtasks	Data Collection and Analysis	12	0	24	0	30	0	8	0	74	\$5,689.88	\$20.00	\$0.00	\$5,709.88
3.9	all subtasks	Field Surveying and Mapping	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.10	all subtasks	Hydrologic Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.11	all subtasks	Hydraulics Analysis	32	8	200	0	540	160	54	0	994	\$68,536.22	\$0.00	\$0.00	\$68,536.22
3.12	all subtasks	Sedimentation	10	42	40	80	300	42	0	0	514	\$37,817.47	\$0.00	\$0.00	\$37,817.47
3.13	all but 3.13.1, 12 & 13	Potential Lateral Migration Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.14	all subtasks	Flood Warning	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.15	all subtasks	Alternatives Analysis	50	30	42	116	232	48	0	0	518	\$39,728.70	\$0.00	\$0.00	\$39,728.70
3.20	all subtasks	Visual and Recreational Potential Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.21	all subtasks	Recommended Alternative Analysis	20	20	40	60	0	0	0	0	140	\$12,700.80	\$0.00	\$0.00	\$12,700.80
3.22	all subtasks	Watercourse Master Plan Reports	24	40	80	40	80	24	24	0	312	\$25,160.13	\$1,020.00	\$0.00	\$26,180.13
3.24	all subtasks	Implementation Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	0	12	\$1,379.95	\$60.00	\$0.00	\$1,439.95
3.25.5	3 each, 2500 copies	Public Involvement: 3 Newsletters	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Hours:			250	246	672	344	1230	274	166	0	3182				
Total Base Contract Labor Cost:			\$28,749.00	\$30,748.03	\$57,125.38	\$25,804.13	\$79,935.24	\$16,441.10	\$6,641.99	\$0.00		\$245,444.86	\$1,440.00	\$0.00	\$248,884.86
Optional Tasks															
3.1.4	---	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.16	all subtasks	Biological Survey and Documentation	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.17	all subtasks	Jurisdictional Delineation	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.18	all subtasks	Hazardous Waste Inventory	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.23	all subtasks	Maintenance Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.24	all subtasks	Expanded Implementation Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	0	12	\$1,379.95	\$80.00	\$0.00	\$1,459.95
3.25.2	12 meetings	Public Involvement: Additional Meetings	24	24	0	0	0	0	0	0	48	\$5,759.71	\$80.00	\$0.00	\$5,839.71
3.25.5.1	3 each, 2500 copies	Public Involvement: Newsletters	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.5.2	6 each, 1500 copies	Public Involvement: Newsletters, add. copies	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.7	28 meetings	Public Involvement: Individual Meetings	0	28	0	0	0	0	0	0	28	\$3,499.78	\$25.00	\$0.00	\$3,524.78
3.25.8	7 each, 1500 copies	Public Involvement: PowerPoint Presentations	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.9	---	Public Involvement: Media Program	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.15	---	CADD Contingency	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Hours:			36	52	0	0	0	0	0	0	88				
Total Optional Contract Labor Cost:			\$4,139.86	\$6,499.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$10,639.44	\$185.00	\$0.00	\$10,824.44
Total Contract Hours:			286	298	672	344	1230	274	166	0	3270				
Total Contract Labor Cost:			\$32,888.86	\$37,247.62	\$57,125.38	\$25,804.13	\$79,935.24	\$16,441.10	\$6,641.99	\$0.00		\$256,084.30	\$1,625.00	\$0.00	\$257,709.30

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT SCHEDULED PROJECT DIRECT, AND MINOR SUBCONSULTANT, EXPENSES**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO. FCD 99-23
CHANGE ORDER NO: n/a

Task Number	Contract Task Description	Direct Expenses								Minor Subconsultants				Total Minor Sub. and Direct Expenses
		Mileage (\$0.31/ml)	Photography	Outside Reproduction and binders	Miscellaneous Materials	Attorney Consultation	n/a	n/a	Total Direct Expenses	Southwest Gound-water Consultants, Inc.	Aerial Mapping Company, Inc.	AGRA Earth & Environmental	Total Minor Sub.	
Base Contract Tasks														
3.1	Project Management (18 months)	\$262.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$262.50	\$0.00	\$0.00	\$0.00	\$0.00	\$262.50
3.5	Coordination	\$227.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$227.50	\$0.00	\$0.00	\$0.00	\$0.00	\$227.50
3.6	Meetings (other than defined elsewhere)	\$227.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$227.50	\$0.00	\$0.00	\$0.00	\$0.00	\$227.50
3.7	Site Visits	\$437.50	\$300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$737.50	\$0.00	\$0.00	\$0.00	\$0.00	\$737.50
3.8	Data Collection and Analysis	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00
3.9	Field Surveying and Mapping	\$350.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00	\$750.00	\$0.00	\$19,438.00	\$0.00	\$19,438.00	\$20,188.00
3.10	Hydrologic Analysis	\$87.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$87.50	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$4,087.50
3.11	Hydraulics Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.12	Sedimentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,500.00	\$3,500.00	\$3,500.00
3.13	Potential Lateral Migration Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.14	Flood Warning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.15	Alternatives Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
3.20	Visual and Recreational Potential Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.21	Recommended Alternative Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.22	Watercourse Master Plan Reports	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000.00
3.24	Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1	Public Involvement: 3 public meetings	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$52.50
3.25.5	Public Involvement: 3 Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$175.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$175.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$5,175.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Direct Expenses:		\$1,890.00	\$300.00	\$2,000.00	\$400.00	\$0.00	\$0.00	\$0.00	\$4,590.00	\$5,000.00	\$28,438.00	\$3,500.00	\$36,938.00	\$41,528.00
Optional Tasks														
3.1.4	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.16	Biological Survey and Documentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.17	Jurisdictional Delineation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.18	Hazardous Waste Inventory	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.23	Maintenance Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Expanded Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,000.00
3.25.1.4	Public Involvement: 3 public meetings	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00
3.25.2	Public Involvement: Additional Meetings	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.00
3.25.5.1	Public Involvement: Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.5.2	Public Involvement: Newsletters, add. copies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.7	Public Involvement: Individual Meetings	\$43.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$43.75	\$0.00	\$0.00	\$0.00	\$0.00	\$43.75
3.25.8	Public Involvement: PowerPoint Presentations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.9	Public Involvement: Media Program	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	\$500.00
3.1.5	CADD Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Direct Expenses:		\$183.75	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$6,183.75	\$0.00	\$500.00	\$0.00	\$500.00	\$6,683.75
Total Contract Direct Expenses:		\$2,073.75	\$300.00	\$2,000.00	\$400.00	\$6,000.00	\$0.00	\$0.00	\$10,773.75	\$5,000.00	\$28,938.00	\$3,500.00	\$37,438.00	\$48,211.75

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								70	100	84	70	61	385	1264
Senior EGR								19	26	27	30	30	132	616
EGR								27	43	35	19	20	145	648
EIT								51	80	59	27	16	233	720
CADD								72	107	78	47	40	345	1511
Survey Chief								24	22	0	0	0	46	88
S. Crew								92	86	0	0	0	178	326
Clerical								27	35	26	20	17	125	657
Total Hours								383	499	308	215	185	1590	5830

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								\$8,005	\$11,455	\$9,555	\$8,052	\$7,008	\$44,075	\$144,647
Senior EGR								\$2,076	\$2,788	\$2,880	\$3,276	\$3,227	\$14,247	\$66,336
EGR								\$2,194	\$3,449	\$2,801	\$1,551	\$1,622	\$11,617	\$51,837
EIT								\$3,404	\$5,348	\$3,980	\$1,810	\$1,096	\$15,638	\$48,243
CADD								\$4,697	\$6,969	\$5,044	\$3,060	\$2,626	\$22,397	\$98,197
Survey Chief								\$2,049	\$1,903	\$0	\$0	\$0	\$3,952	\$7,567
S. Crew								\$11,542	\$10,717	\$0	\$0	\$0	\$22,259	\$40,747
Clerical								\$1,215	\$1,566	\$1,178	\$916	\$762	\$5,636	\$29,562
Total Labor Cost:								\$35,182	\$44,195	\$25,438	\$18,664	\$16,341	\$139,821	\$487,137

Total Direct Expenses:								\$332	\$416	\$240	\$176	\$154	\$1,317	\$4,590
Minor Subconsultants:														
Southwest Ground-water								\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
AMC								\$10,000	\$11,438	\$2,000	\$0	\$500	\$23,938	\$28,438
AGRA								\$0	\$0	\$0	\$1,500	\$2,000	\$3,500	\$3,500
Total Minor Subconsultants:								\$10,000	\$11,438	\$2,000	\$1,500	\$2,500	\$27,438	\$36,938
Subtotal ASL:								\$45,514	\$56,049	\$27,678	\$20,340	\$18,995	\$168,576	\$528,665
Total Stantec:								\$7,064	\$10,112	\$16,727	\$25,453	\$25,307	\$84,662	\$246,885
Total JEF:								\$13,068	\$20,045	\$21,671	\$24,804	\$24,506	\$104,094	\$220,871
Total LSD:								\$2,402	\$5,396	\$7,687	\$12,691	\$11,237	\$49,174	\$167,091
Total ASL including subs:								\$68,047	\$91,602	\$73,763	\$83,288	\$80,045	\$406,506	\$1,163,611

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	57	66	81	78	83	72	72	78	61	67	54	51	820	1264
Senior EGR	35	37	47	47	50	38	40	38	31	33	29	28	452	616
EGR	17	40	55	60	65	47	43	53	40	36	19	16	491	648
EIT	18	39	53	59	65	41	36	56	48	39	11	11	477	720
CADD	50	120	156	156	149	87	85	127	96	77	32	22	1157	1511
Survey Chief	0	0	9	9	0	0	0	19	3	3	0	0	42	88
S. Crew	0	0	33	33	0	0	0	70	6	6	0	0	148	326
Clerical	19	25	32	31	34	49	51	56	46	65	46	41	496	657
Total Hours	197	327	465	474	447	334	328	496	332	325	190	169	4083	5830

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$6,542	\$7,510	\$9,303	\$8,919	\$9,519	\$8,276	\$8,189	\$8,887	\$6,990	\$7,639	\$6,149	\$5,861	\$93,784	\$144,647
Senior EGR	\$3,800	\$3,937	\$5,046	\$5,093	\$5,362	\$4,078	\$4,301	\$4,086	\$3,351	\$3,519	\$3,106	\$3,003	\$48,683	\$66,336
EGR	\$1,354	\$3,181	\$4,368	\$4,822	\$5,219	\$3,741	\$3,471	\$4,260	\$3,201	\$2,911	\$1,492	\$1,289	\$39,307	\$51,837
EIT	\$1,235	\$2,620	\$3,545	\$3,952	\$4,388	\$2,720	\$2,444	\$3,750	\$3,246	\$2,597	\$744	\$710	\$31,951	\$48,243
CADD	\$3,220	\$7,819	\$10,115	\$10,167	\$9,690	\$5,683	\$5,540	\$8,244	\$6,254	\$5,003	\$2,063	\$1,419	\$75,217	\$98,197
Survey Chief	\$0	\$0	\$732	\$732	\$0	\$0	\$0	\$1,639	\$262	\$250	\$0	\$0	\$3,615	\$7,567
S. Crew	\$0	\$0	\$4,122	\$4,122	\$0	\$0	\$0	\$8,753	\$764	\$727	\$0	\$0	\$18,489	\$40,747
Clerical	\$872	\$1,137	\$1,429	\$1,412	\$1,548	\$2,213	\$2,304	\$2,505	\$2,073	\$2,913	\$2,050	\$1,856	\$22,312	\$29,562
Total Labor Cost:	\$17,024	\$26,206	\$38,660	\$39,218	\$35,725	\$26,711	\$26,249	\$42,124	\$26,140	\$25,560	\$15,604	\$14,139	\$333,357	\$487,137

Total Direct Expenses:	\$160	\$247	\$364	\$370	\$337	\$252	\$247	\$397	\$246	\$241	\$147	\$133	\$3,141	\$4,590
Minor Subconsultants:														
Southwest Ground-water	\$0	\$0	\$0	\$0	\$1,000	\$2,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$5,000	\$5,000
AMC	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500	\$2,000	\$0	\$0	\$0	\$0	\$4,500	\$28,438
AGRA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500
Total Minor Subconsultants:	\$0	\$0	\$0	\$0	\$1,000	\$2,000	\$4,500	\$2,000	\$0	\$0	\$0	\$0	\$9,500	\$36,938
Subtotal ASL:	\$17,184	\$26,452	\$39,024	\$39,588	\$37,062	\$28,962	\$30,996	\$44,520	\$26,387	\$25,801	\$15,751	\$14,272	\$345,998	\$528,665
Total Stantec:	\$10,188	\$12,552	\$15,389	\$15,319	\$17,823	\$15,741	\$15,602	\$16,755	\$12,053	\$10,733	\$6,842	\$6,578	\$155,577	\$246,885
Total JEF:	\$16,433	\$18,791	\$15,556	\$7,861	\$9,094	\$7,136	\$7,239	\$7,999	\$7,933	\$7,073	\$4,108	\$3,919	\$113,143	\$220,871
Total LSD:	\$9,241	\$7,698	\$15,550	\$15,290	\$13,796	\$5,501	\$5,432	\$8,041	\$7,034	\$5,396	\$1,786	\$1,720	\$116,008	\$167,091
Total ASL including subs:	\$53,047	\$65,493	\$85,520	\$78,058	\$77,774	\$57,340	\$59,269	\$77,316	\$53,406	\$49,002	\$28,487	\$26,489	\$730,725	\$1,163,511

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	51	8												59	1264
Senior EGR	29	3												32	616
EGR	11	1												11	648
EIT	9	1												10	720
CADD	9	0												9	1511
Survey Chief	0	0												0	88
S. Crew	0	0												0	326
Clerical	34	2												36	657
Total Hours	143	14												157	5830

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Proj. Mgr.	\$5,887	\$902												\$6,788	\$144,647
Senior EGR	\$3,130	\$276												\$3,406	\$66,336
EGR	\$866	\$47												\$914	\$51,837
EIT	\$584	\$70												\$654	\$48,243
CADD	\$583	\$0												\$583	\$98,197
Survey Chief	\$0	\$0												\$0	\$7,567
S. Crew	\$0	\$0												\$0	\$40,747
Clerical	\$1,536	\$78												\$1,614	\$29,562
Total Labor Cost	\$12,586	\$1,373												\$13,959	\$487,137

Total Direct Expenses:	\$119	\$13												\$132	\$4,590
Minor Subconsultants:															
Southwest Ground-water	\$0	\$0												\$0	\$5,000
AMC	\$0	\$0												\$0	\$28,438
AGRA	\$0	\$0												\$0	\$3,500
Total Minor Subconsultants:	\$0	\$0												\$0	\$36,938
Subtotal ASL:	\$12,705	\$1,386	\$0	\$14,091	\$528,665										
Total Stantec:	\$6,115	\$532	\$0	\$6,647	\$246,885										
Total JEF:	\$3,455	\$179	\$0	\$3,634	\$220,871										
Total LSD:	\$1,712	\$196	\$0	\$1,908	\$167,091										
Total ASL including subs:	\$23,987	\$2,292	\$0	\$26,279	\$1,163,511										

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								13	21	20	11	9	75	268
Senior EGR								11	17	16	10	9	63	214
EGR								0	0	0	0	0	0	81
EIT								1	1	1	1	1	4	88
CADD								2	4	3	4	4	17	378
Survey Chief								0	0	0	0	0	0	24
S. Crew								0	0	0	0	0	0	0
Clerical								1	1	1	1	1	6	87
Total Hours								28	44	42	27	24	166	1140

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								\$1,532	\$2,408	\$2,298	\$1,259	\$1,040	\$8,537	\$30,669
Senior EGR								\$1,177	\$1,850	\$1,766	\$1,080	\$944	\$6,818	\$23,045
EGR								\$0	\$0	\$0	\$0	\$0	\$0	\$6,480
EIT								\$40	\$62	\$60	\$62	\$66	\$289	\$5,896
CADD								\$151	\$237	\$226	\$237	\$248	\$1,098	\$24,565
Survey Chief								\$0	\$0	\$0	\$0	\$0	\$0	\$2,064
S. Crew								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Clerical								\$40	\$63	\$60	\$63	\$66	\$292	\$3,915
Total Labor Cost:								\$2,940	\$4,620	\$4,410	\$2,701	\$2,364	\$17,034	\$96,634

Total Direct Expenses:								\$188	\$296	\$282	\$173	\$151	\$1,090	\$6,184
Minor Subconsultants:														
Southwest Ground-water								\$0	\$0	\$0	\$0	\$0	\$0	\$0
AMC								\$0	\$0	\$0	\$0	\$0	\$0	\$500
AGRA								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Minor Subconsultants:								\$0	\$0	\$0	\$0	\$0	\$0	\$500
Subtotal ASL:								\$3,128	\$4,915	\$4,692	\$2,874	\$2,515	\$18,124	\$103,318
Total Stantec:								\$508	\$797	\$762	\$526	\$485	\$3,078	\$10,824
Total JEF:								\$234	\$368	\$350	\$133	\$84	\$1,169	\$5,531
Total LSD:								\$6,673	\$10,487	\$10,008	\$7,326	\$6,899	\$45,337	\$179,966
Total ASL including subs:								\$10,542	\$16,567	\$15,813	\$10,859	\$9,983	\$67,707	\$299,639

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	20	22	23	15	7	10	11	18	15	15	12	13	181	268
Senior EGR	16	16	15	16	4	5	7	11	9	21	15	9	144	214
EGR	1	5	6	9	6	8	5	10	11	11	6	4	80	81
EIT	1	1	2	5	6	5	1	4	5	32	22	1	83	88
CADD	5	12	10	29	8	13	11	45	58	64	55	48	358	378
Survey Chief	0	2	2	2	2	2	2	2	2	2	2	1	24	24
S. Crew	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerical	1	1	2	3	4	3	2	4	4	31	22	2	79	87
Total Hours	45	59	61	79	37	46	38	93	103	176	134	78	949	1140

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$2,325	\$2,486	\$2,645	\$1,707	\$835	\$1,194	\$1,273	\$2,028	\$1,659	\$1,734	\$1,348	\$1,522	\$20,755	\$30,669
Senior EGR	\$1,766	\$1,766	\$1,619	\$1,711	\$434	\$502	\$716	\$1,180	\$952	\$2,239	\$1,620	\$968	\$15,473	\$23,045
EGR	\$53	\$369	\$484	\$716	\$460	\$623	\$394	\$767	\$873	\$899	\$499	\$286	\$6,423	\$6,480
EIT	\$60	\$60	\$119	\$325	\$373	\$304	\$60	\$253	\$341	\$2,153	\$1,456	\$60	\$5,563	\$5,896
CADD	\$302	\$758	\$680	\$1,880	\$548	\$846	\$707	\$2,911	\$3,758	\$4,140	\$3,587	\$3,119	\$23,237	\$24,565
Survey Chief	\$27	\$187	\$205	\$178	\$205	\$196	\$187	\$205	\$187	\$196	\$196	\$97	\$2,064	\$2,064
S. Crew	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Clerical	\$60	\$60	\$84	\$147	\$169	\$144	\$70	\$160	\$183	\$1,396	\$999	\$86	\$3,558	\$3,915
Total Labor Cost:	\$4,593	\$6,685	\$5,835	\$6,665	\$3,024	\$3,808	\$3,406	\$7,504	\$7,953	\$12,756	\$9,705	\$6,138	\$77,072	\$96,634

Total Direct Expenses:	\$294	\$364	\$373	\$426	\$194	\$244	\$218	\$480	\$509	\$816	\$621	\$393	\$4,932	\$6,184
Minor Subconsultants:														
Southwest Ground-water	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AMC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$500	\$500
AGRA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Minor Subconsultants:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$500	\$500
Subtotal ASL:	\$4,887	\$6,049	\$6,209	\$7,091	\$3,218	\$4,052	\$3,624	\$8,484	\$8,462	\$13,572	\$10,326	\$6,531	\$82,504	\$103,318
Total Stantec:	\$762	\$762	\$834	\$531	\$388	\$371	\$453	\$711	\$650	\$568	\$371	\$622	\$7,022	\$10,824
Total JEF:	\$351	\$351	\$384	\$167	\$0	\$0	\$73	\$239	\$218	\$1,319	\$897	\$197	\$4,196	\$5,531
Total LSD:	\$10,010	\$10,010	\$5,497	\$3,372	\$349	\$2,052	\$5,539	\$12,193	\$9,374	\$6,447	\$2,580	\$10,055	\$117,654	\$179,966
Total ASL including subs:	\$16,010	\$17,172	\$12,923	\$11,162	\$3,954	\$6,475	\$9,689	\$21,626	\$18,704	\$21,907	\$14,173	\$17,405	\$211,376	\$299,639

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: ASL Consulting Engineers
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	11	1												12	268
Senior EGR	7	0												7	214
EGR	1	0												1	81
EIT	1	0												1	88
CADD	4	0												4	378
Survey Chief	0	0												0	24
S. Crew	0	0												0	0
Clerical	1	0												1	87
Total Hours	24	1												25	1140

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Proj. Mgr.	\$1,236	\$141												\$1,377	\$30,669
Senior EGR	\$755	\$0												\$755	\$23,045
EGR	\$57	\$0												\$57	\$6,480
EIT	\$44	\$0												\$44	\$5,896
CADD	\$231	\$0												\$231	\$24,565
Survey Chief	\$0	\$0												\$0	\$2,064
S. Crew	\$0	\$0												\$0	\$0
Clerical	\$65	\$0												\$65	\$3,915
Total Labor Cost:	\$2,387	\$141												\$2,528	\$96,634

Total Direct Expenses:	\$153	\$9												\$162	\$6,184
Minor Subconsultants:															
Southwest Ground-water	\$0	\$0												\$0	\$0
AMC	\$0	\$0												\$0	\$500
AGRA	\$0	\$0												\$0	\$0
Total Minor Subconsultants:	\$0	\$0												\$0	\$500
Subtotal ASL:	\$2,540	\$150	\$0	\$2,690	\$103,318										
Total Stantec:	\$606	\$118	\$0	\$6,647	\$10,824										
Total JEF:	\$166	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,634	\$5,531
Total LSD:	\$16,975	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,908	\$179,966
Total ASL including subs:	\$20,288	\$268	\$0	\$14,878	\$299,639										

ATTACHMENT 3

Fee Proposal Forms for Stantec Consulting, Inc.

EXHIBIT A

CONSULTANT/SUBCONSULTANT AUTHORIZED COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: Stantec Consulting, Inc.

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	250	\$41.07	\$10,267.50
Senior Associate	246	\$44.64	\$10,981.44
Project Engineer	672	\$30.36	\$20,401.92
Engineer	344	\$26.79	\$9,215.76
EIT	1230	\$23.21	\$28,548.30
CADD	274	\$21.43	\$5,871.82
Clerical	166	\$14.29	\$2,372.14

Subtotal Labor: \$87,658.88

Overhead @ 150% of Labor: \$131,488.32

Total Labor: \$219,147.20

Salary Fringes: 45%

G&A Overhead: 105%

AUTHORIZED DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$340.00
Photography	\$80.00
Outside reproduction	\$1,020.00
Miscellaneous	\$0.00

Total Expenses: \$1,440.00

EXHIBIT A

CONSULTANT/SUBCONSULTANT OPTIONAL COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: Stantec Consulting, Inc.
 PROJECT NAME: Skunk Creek Watercourse Master Plan
 CONTRACT NO: 99-23
 CHANGE ORDER NO:
 DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	36	\$41.07	\$1,478.52
Senior Associate	52	\$44.64	\$2,321.28
Project Engineer	0	\$30.36	\$0.00
Engineer	0	\$26.79	\$0.00
EIT	0	\$23.21	\$0.00
CADD	0	\$21.43	\$0.00
Clerical	0	\$14.29	\$0.00

Subtotal Labor:	\$3,799.80
Overhead @ 150% of Labor:	\$5,699.70
Total Labor:	<u>\$9,499.50</u>

Salary Fringes:	45%
G&A Overhead:	105%

OPTIONAL DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$185.00
Photography	\$0.00
Outside reproduction	\$0.00
Miscellaneous	\$0.00

Total Expenses:	<u>\$185.00</u>
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SUBCONSULTANT AUTHORIZED FEES		
Name of Subconsultant	Task	Cost

Total Authorized Subconsultants: \$0.00
 Total Authorized Labor: \$219,147.20
 Total Authorized Expenses: \$1,440.00

Total Authorized Consultant Cost \$220,587.20
 Net Authorized Fee (Total Labor x 12%): \$26,297.66
TOTAL AUTHORIZED PROPOSED FEE: \$246,884.86

SUBCONSULTANT OPTIONAL FEES		
Name of Subconsultant	Task	Cost

Total Optional Subconsultants: \$0.00
 Total Optional Labor: \$9,499.50
 Total Optional Expenses: \$185.00

Total Optional Consultant Cost \$9,684.50
 Net Optional Fee (Total Labor x 12%): \$1,139.94
TOTAL OPTIONAL PROPOSED FEE: \$10,824.44

TOTAL PROPOSED FEE SUMMARY:
Total Subconsultants: \$0.00
Total Labor: \$228,646.70
Total Expenses: \$1,625.00
Total Consultant Cost \$230,271.70
Net Fee (Total Labor x 12%): \$27,437.60
TOTAL PROPOSED FEE: \$257,709.30

 Signature

 Name (print)

 Title

 Date

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED PROJECT MANHOURS

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO. FCD 99-23
CHANGE ORDER NO. n/a

Task Number	Included Task Numbers/Scope	Contract Task Description	Labor Classifications							Total Manhours	Total Labor	Total Expenses	Total Minor Subs	Total Cost	
			Proj. Mgr. \$115.00 \$/hr	Sr. Assoc. \$124.99 \$/hr	Proj. Egr \$85.01 \$/hr	Egr \$75.01 \$/hr	EIT \$64.99 \$/hr	CADD \$60.00 \$/hr	Clerical \$40.01 \$/hr						n/a \$0.00 \$/hr
Base Contract Tasks															
3.1	3.3, 3.3, 3.4	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.5	all subtasks	Coordination	26	46	142	24	0	0	64	0	302	\$25,171.72	\$0.00	\$25,171.72	
3.6	all subtasks	Meetings (other than defined elsewhere)	40	36	80	0	0	0	16	0	172	\$16,540.38	\$110.00	\$16,650.38	
3.7	all subtasks	Site Visits	24	24	24	24	48	0	0	0	144	\$12,719.62	\$230.00	\$12,949.62	
3.8	all subtasks	Data Collection and Analysis	12	0	24	0	30	0	8	0	74	\$5,689.88	\$20.00	\$5,709.88	
3.9	all subtasks	Field Surveying and Mapping	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.10	all subtasks	Hydrologic Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.11	all subtasks	Hydraulics Analysis	32	8	200	0	540	160	54	0	994	\$68,536.22	\$0.00	\$68,536.22	
3.12	all subtasks	Sedimentation	10	42	40	80	300	42	0	0	514	\$37,817.47	\$0.00	\$37,817.47	
3.13	all but 3.13.1.12 & 13	Potential Lateral Migration Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.14	all subtasks	Flood Warning	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.15	all subtasks	Alternatives Analysis	50	30	42	116	232	48	0	0	518	\$39,728.70	\$0.00	\$39,728.70	
3.20	all subtasks	Visual and Recreational Potential Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.21	all subtasks	Recommended Alternative Analysis	20	20	40	60	0	0	0	0	140	\$12,700.80	\$0.00	\$12,700.80	
3.22	all subtasks	Watercourse Master Plan Reports	24	40	80	40	80	24	24	0	312	\$25,160.13	\$1,020.00	\$26,180.13	
3.24	all subtasks	Implementation Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.25.1	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	0	12	\$1,379.95	\$60.00	\$1,439.95	
3.25.5	3 each, 2500 copies	Public Involvement: 3 Newsletters	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
Total Base Contract Hours:			250	246	672	344	1230	274	166	0	3182				
Total Base Contract Labor Cost:			\$28,749.00	\$30,748.03	\$57,125.38	\$25,804.13	\$79,935.24	\$16,441.10	\$6,641.99	\$0.00		\$245,444.86	\$1,440.00	\$0.00	\$246,884.86
Optional Tasks															
3.14	---	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.16	all subtasks	Biological Survey and Documentation	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.17	all subtasks	Jurisdictional Delineation	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.18	all subtasks	Hazardous Waste Inventory	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.23	all subtasks	Maintenance Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.24	all subtasks	Expanded Implementation Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.25.1.4	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	0	12	\$1,379.95	\$80.00	\$1,459.95	
3.25.2	12 meetings	Public Involvement: Additional Meetings	24	24	0	0	0	0	0	0	48	\$5,759.71	\$80.00	\$5,839.71	
3.25.5.1	3 each, 2500 copies	Public Involvement: Newsletters	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.25.5.2	6 each, 1500 copies	Public Involvement: Newsletters, add copies	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.25.7	28 meetings	Public Involvement: Individual Meetings	0	28	0	0	0	0	0	0	28	\$3,499.78	\$25.00	\$3,524.78	
3.25.8	7 each, 1500 copies	Public Involvement: PowerPoint Presentations	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.25.9	---	Public Involvement: Media Program	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
3.15	---	CADD Contingency	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	
Total Optional Contract Hours:			36	52	0	0	0	0	0	0	88				
Total Optional Contract Labor Cost:			\$4,139.86	\$6,499.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$10,639.44	\$185.00	\$0.00	\$10,824.44
Total Contract Hours:			286	298	672	344	1230	274	166	0	3270				
Total Contract Labor Cost:			\$32,888.86	\$37,247.62	\$57,125.38	\$25,804.13	\$79,935.24	\$16,441.10	\$6,641.99	\$0.00		\$256,084.30	\$1,625.00	\$0.00	\$257,709.30

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT SCHEDULED PROJECT DIRECT, AND MINOR SUBCONSULTANT, EXPENSES

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO. FCD 99-23
CHANGE ORDER NO. n/a

Task Number	Contract Task Description	Direct Expenses							Minor Subconsultants				Total Minor Sub. and Direct Expenses	
		Mileage (\$0.31/ml)	Photography	Outside Reproduction	Miscellaneous	n/a	n/a	n/a	Total Direct Expenses	n/a	n/a	n/a		Total Minor Sub.
Base Contract Tasks														
3.1	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.5	Coordination	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.6	Meetings (other than defined elsewhere)	\$110.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110.00
3.7	Site Visits	\$150.00	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$230.00	\$0.00	\$0.00	\$0.00	\$0.00	\$230.00
3.8	Data Collection and Analysis	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00
3.9	Field Surveying and Mapping	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.10	Hydrologic Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.11	Hydraulics Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.12	Sedimentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.13	Potential Lateral Migration Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.14	Flood Warning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.15	Alternatives Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.20	Visual and Recreational Potential Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.21	Recommended Alternative Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.22	Watercourse Master Plan Reports	\$0.00	\$0.00	\$1,020.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,020.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,020.00
3.24	Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1	Public Involvement: 3 public meetings	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60.00
3.25.5	Public Involvement: 3 Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Direct Expenses:		\$340.00	\$80.00	\$1,020.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,440.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,440.00
Optional Tasks														
3.1.4	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.16	Biological Survey and Documentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.17	Jurisdictional Delineation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.18	Hazardous Waste Inventory	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.23	Maintenance Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Expanded Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	Public Involvement: 3 public meetings	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00
3.25.2	Public Involvement: Additional Meetings	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00
3.25.5.1	Public Involvement: Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.5.2	Public Involvement: Newsletters, add. copies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.7	Public Involvement: Individual Meetings	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00
3.25.8	Public Involvement: PowerPoint Presentations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.9	Public Involvement: Media Program	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.1.5	CADD Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Direct Expenses:		\$185.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$185.00	\$0.00	\$0.00	\$0.00	\$0.00	\$185.00
Total Contract Direct Expenses:		\$525.00	\$80.00	\$1,020.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,625.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,625.00

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT AUTHORIZED SCHEDULED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								8	11	13	17	16	65	250
Sr. Assoc.								7	8	15	24	24	77	246
Proj. Egr								25	35	41	51	49	202	672
Egr								3	3	18	35	36	96	344
EIT								33	52	104	172	174	534	1230
CADD								8	12	19	29	30	99	274
Clerical								9	11	11	11	10	51	166
n/a														
Total Hours:								92	133	222	339	339	1124	3182

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	AUG	SEP	OCT	NOV	DEC									
Proj. Mgr.								\$896	\$1,276	\$1,518	\$1,986	\$1,809	\$7,485	\$28,749
Sr. Assoc.								\$816	\$997	\$1,929	\$2,972	\$2,965	\$9,679	\$30,748
Proj. Egr								\$2,154	\$2,997	\$3,510	\$4,357	\$4,144	\$17,161	\$57,125
Egr								\$215	\$251	\$1,337	\$2,652	\$2,727	\$7,182	\$25,804
EIT								\$2,135	\$3,355	\$6,747	\$11,153	\$11,298	\$34,687	\$79,935
CADD								\$467	\$733	\$1,158	\$1,741	\$1,821	\$5,920	\$16,441
Clerical								\$340	\$443	\$430	\$443	\$396	\$2,052	\$6,642
n/a														
Total Labor Cost:								\$7,022	\$10,053	\$16,629	\$25,304	\$25,159	\$84,168	\$245,445

Total Direct Expenses:								\$41	\$59	\$98	\$148	\$148	\$494	\$1,440
Total Stantec:								\$7,064	\$10,112	\$16,727	\$25,453	\$25,307	\$84,662	\$246,885

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	12	13	18	18	20	15	15	18	16	15	9	8	176	250
Sr. Assoc.	8	9	11	11	14	15	15	17	14	18	12	11	156	246
Proj. Egr	34	33	37	35	42	46	47	47	37	37	25	24	444	672
Egr	7	16	22	24	27	19	18	31	30	30	9	9	240	344
EIT	50	69	85	84	96	77	73	72	35	13	16	15	684	1230
CADD	13	17	21	20	23	20	19	19	9	3	4	4	173	274
Clerical	11	9	9	9	10	13	14	9	5	6	7	7	108	166
n/a														
Total Hours:	133	166	202	201	233	205	202	212	146	123	81	78	1981	3182

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$1,347	\$1,448	\$2,023	\$2,054	\$2,305	\$1,749	\$1,732	\$2,121	\$1,784	\$1,735	\$981	\$942	\$20,219	\$28,749
Sr. Assoc.	\$975	\$1,162	\$1,392	\$1,407	\$1,742	\$1,885	\$1,936	\$2,074	\$1,806	\$2,251	\$1,491	\$1,435	\$19,557	\$30,748
Proj. Egr	\$2,852	\$2,810	\$3,150	\$2,983	\$3,574	\$3,893	\$4,002	\$4,024	\$3,141	\$3,156	\$2,123	\$2,050	\$37,757	\$57,125
Egr	\$499	\$1,187	\$1,627	\$1,803	\$2,052	\$1,405	\$1,382	\$2,298	\$2,258	\$2,216	\$668	\$641	\$18,035	\$25,804
EIT	\$3,229	\$4,485	\$5,492	\$5,431	\$6,227	\$4,985	\$4,758	\$4,669	\$2,267	\$873	\$1,029	\$982	\$44,428	\$79,935
CADD	\$796	\$1,036	\$1,246	\$1,208	\$1,406	\$1,213	\$1,158	\$1,118	\$522	\$193	\$236	\$226	\$10,360	\$16,441
Clerical	\$432	\$352	\$370	\$343	\$413	\$519	\$543	\$355	\$204	\$245	\$274	\$265	\$4,313	\$6,642
n/a														
Total Labor Cost:	\$10,129	\$12,479	\$15,300	\$15,230	\$17,719	\$15,649	\$15,511	\$16,658	\$11,983	\$10,670	\$6,802	\$6,540	\$154,669	\$245,445

Total Direct Expenses:	\$59	\$73	\$90	\$89	\$104	\$92	\$91	\$98	\$70	\$63	\$40	\$38	\$907	\$1,440
Total Stantec:	\$10,188	\$12,552	\$15,389	\$15,319	\$17,823	\$15,741	\$15,602	\$16,755	\$12,053	\$10,733	\$6,842	\$6,578	\$155,577	\$246,885

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	8	1											9	250
Sr. Assoc.	11	1											12	246
Proj. Egr	24	2											26	672
Egr	7	0											8	344
EIT	12	1											13	1230
CADD	3	0											3	274
Clerical	7	0											7	166
n/a														
Total Hours:	71	6											77	3182

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS
	JAN	FEB												
Proj. Mgr.	\$913	\$132											\$1,045	\$28,749
Sr. Assoc.	\$1,375	\$136											\$1,511	\$30,748
Proj. Egr	\$2,045	\$162											\$2,207	\$57,125
Egr	\$554	\$32											\$587	\$25,804
EIT	\$765	\$55											\$820	\$79,935
CADD	\$161	\$0											\$161	\$16,441
Clerical	\$265	\$11											\$276	\$6,642
n/a														
Total Labor Cost:	\$6,079	\$529											\$6,608	\$245,445

Total Direct Expenses:	\$36	\$3											\$39	\$1,440
Total Stantec:	\$6,115	\$532											\$6,647	\$246,885

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								2	4	3	1	1	12	36
Sr. Assoc.								2	3	3	3	3	14	52
Proj. Egr								0	0	0	0	0	0	0
Egr								0	0	0	0	0	0	0
EIT								0	0	0	0	0	0	0
CADD								0	0	0	0	0	0	0
Clerical								0	0	0	0	0	0	0
n/a														
Total Hours:								4	7	6	4	4	25	88

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS	
									AUG	SEP	OCT	NOV			DEC
Proj. Mgr.									\$267	\$419	\$400	\$152	\$95	\$1,333	\$4,140
Sr. Assoc.									\$232	\$365	\$349	\$365	\$381	\$1,692	\$6,500
Proj. Egr									\$0	\$0	\$0	\$0	\$0	\$0	\$0
Egr									\$0	\$0	\$0	\$0	\$0	\$0	\$0
EIT									\$0	\$0	\$0	\$0	\$0	\$0	\$0
CADD									\$0	\$0	\$0	\$0	\$0	\$0	\$0
Clerical									\$0	\$0	\$0	\$0	\$0	\$0	\$0
n/a															
Total Labor Cost:									\$499	\$784	\$749	\$517	\$477	\$3,025	\$10,639

Total Direct Expenses:									\$9	\$14	\$13	\$9	\$8	\$53	\$185
Total Stantec:									\$508	\$797	\$762	\$526	\$485	\$3,078	\$10,824

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	3	3	4	2	0	0	1	3	3	2	0	2	23	36
Sr. Assoc.	3	3	3	3	3	3	3	3	3	3	3	3	35	52
Proj. Egr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CADD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerical	0	0	0	0	0	0	0	0	0	0	0	0	0	0
n/a														
Total Hours:	6	6	7	4	3	3	4	6	5	5	3	5	57	88

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$400	\$400	\$438	\$191	\$0	\$0	\$97	\$317	\$290	\$193	\$0	\$262	\$2,589	\$4,140
Sr. Assoc.	\$349	\$349	\$381	\$331	\$381	\$365	\$349	\$381	\$349	\$365	\$365	\$349	\$4,313	\$6,500
Proj. Egr	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Egr	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EIT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CADD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Clerical	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n/a														
Total Labor Cost:	\$749	\$749	\$819	\$522	\$381	\$365	\$445	\$699	\$639	\$558	\$365	\$611	\$6,902	\$10,639

Total Direct Expenses:	\$13	\$13	\$14	\$9	\$7	\$6	\$8	\$12	\$11	\$10	\$6	\$11	\$120	\$185
Total Stantec:	\$762	\$762	\$834	\$531	\$388	\$371	\$453	\$711	\$650	\$568	\$371	\$622	\$7,022	\$10,824

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Stantec Consulting, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	2	0												2	36
Sr. Assoc.	3	1												4	52
Proj. Egr	0	0												0	0
Egr	0	0												0	0
EIT	0	0												0	0
CADD	0	0												0	0
Clerical	0	0												0	0
n/a															
Total Hours:	5	1												6	88

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Proj. Mgr.	\$218	\$0												\$218	\$4,140
Sr. Assoc.	\$377	\$116												\$494	\$6,500
Proj. Egr	\$0	\$0												\$0	\$0
Egr	\$0	\$0												\$0	\$0
EIT	\$0	\$0												\$0	\$0
CADD	\$0	\$0												\$0	\$0
Clerical	\$0	\$0												\$0	\$0
n/a															
Total Labor Cost:	\$596	\$116												\$712	\$10,639

Total Direct Expenses:	\$10	\$2												\$12	\$185
Total Stantec:	\$606	\$118												\$725	\$10,824

ATTACHMENT 4

Fee Proposal Forms for JE Fuller/Hydrology & Geomorphology, Inc.

EXHIBIT A

CONSULTANT/SUBCONSULTANT AUTHORIZED COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: JE Fuller/ Hydrology & Geomorphology, Inc.

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	1074	\$30.00	\$32,220.00
Hydrologist	1340	\$24.92	\$33,392.80
Technician	644	\$14.00	\$9,016.00

Subtotal Labor: \$74,628.80

Overhead @ 150% of Labor: \$111,943.20

Total Labor: \$186,572.00

Salary Fringes: 43%

G&A Overhead: 107%

AUTHORIZED DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$1,910.00
Backhoe	\$5,000.00
Historic aerial photographs	\$3,000.00
Supplies	\$2,000.00

Total Expenses: \$11,910.00

EXHIBIT A

CONSULTANT/SUBCONSULTANT OPTIONAL COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: JE Fuller/ Hydrology & Geomorphology, Inc.

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Project Manager	44	\$30.00	\$1,320.00
Hydrologist	24	\$24.92	\$598.08
Technician	0	\$14.00	\$0.00

Subtotal Labor: \$1,918.08

Overhead @ 150% of Labor: \$2,877.12

Total Labor: \$4,795.20

Salary Fringes: 43%

G&A Overhead: 107%

OPTIONAL DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$160.00
Backhoe	\$0.00
Historic aerial photographs	\$0.00
Supplies	\$0.00

Total Expenses: \$160.00

SUBCONSULTANT AUTHORIZED FEES		
Name of Subconsultant	Task	Cost

Total Authorized Subconsultants: \$0.00
 Total Authorized Labor: \$186,572.00
 Total Authorized Expenses: \$11,910.00

Total Authorized Consultant Cost \$198,482.00
 Net Authorized Fee (Total Labor x 12%): \$22,388.64

TOTAL AUTHORIZED PROPOSED FEE: \$220,870.64

SUBCONSULTANT OPTIONAL FEES		
Name of Subconsultant	Task	Cost

Total Optional Subconsultants: \$0.00
 Total Optional Labor: \$4,795.20
 Total Optional Expenses: \$160.00

Total Optional Consultant Cost \$4,955.20
 Net Optional Fee (Total Labor x 12%): \$575.42

TOTAL OPTIONAL PROPOSED FEE: \$5,530.62

TOTAL PROPOSED FEE SUMMARY:
 Total Subconsultants: \$0.00
 Total Labor: \$191,367.20
 Total Expenses: \$12,070.00

Total Consultant Cost \$203,437.20
Net Fee (Total Labor x 12%): \$22,964.06

TOTAL PROPOSED FEE: \$226,401.26

 Signature

 Name (print)

 Title

 Date

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED PROJECT MANHOURS

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO: n/a

Task Number	Included Task Numbers/Scope	Contract Task Description	Labor Classifications							Total Manhours	Total Labor	Total Expenses	Total Minor Subs	Total Cost
			Proj. Mgr. \$84.00 \$/hr	Hydrologist \$69.78 \$/hr	Tech. \$39.20 \$/hr									
Base Contract Tasks														
3.1	3.3, 3.3, 3.4	Project Management (18 months)	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.5	all subtasks	Coordination	144	24	0	0	0	0	0	168	\$13,770.62	\$0.00	\$0.00	\$13,770.62
3.6	all subtasks	Meetings (other than defined elsewhere)	56	8	0	0	0	0	0	64	\$5,262.21	\$100.00	\$0.00	\$5,362.21
3.7	all subtasks	Site Visits	38	16	0	0	0	0	0	52	\$4,140.42	\$150.00	\$0.00	\$4,290.42
3.8	all subtasks	Data Collection and Analysis	4	80	24	0	0	0	0	108	\$6,858.88	\$3,000.00	\$0.00	\$9,858.88
3.9	all subtasks	Field Surveying and Mapping	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.10	all subtasks	Hydrologic Analysis	4	32	80	0	0	0	0	116	\$5,704.83	\$0.00	\$0.00	\$5,704.83
3.11	all subtasks	Hydraulics Analysis	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.12	all subtasks	Sedimentation	48	160	48	0	0	0	0	256	\$17,077.76	\$150.00	\$0.00	\$17,227.76
3.13	all but 3.13.1.12 & 13	Potential Lateral Migration Analysis	480	620	300	0	0	0	0	1400	\$95,341.12	\$8,450.00	\$0.00	\$103,791.12
3.14	all subtasks	Flood Warning	2	40	0	0	0	0	0	42	\$2,959.04	\$0.00	\$0.00	\$2,959.04
3.15	all subtasks	Alternatives Analysis	80	320	72	0	0	0	0	472	\$31,870.72	\$0.00	\$0.00	\$31,870.72
3.20	all subtasks	Visual and Recreational Potential Analysis	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.21	all subtasks	Recommended Alternative Analysis	40	40	40	0	0	0	0	120	\$7,719.04	\$0.00	\$0.00	\$7,719.04
3.22	all subtasks	Watercourse Master Plan Reports	160	0	80	0	0	0	0	240	\$16,576.00	\$0.00	\$0.00	\$16,576.00
3.24	all subtasks	Implementation Plan	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	12	\$1,008.00	\$60.00	\$0.00	\$1,068.00
3.25.5	3 each, 2500 copies	Public Involvement: 3 Newsletters	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.26	all subtasks	Rights-of-Way and Easements	8	0	0	0	0	0	0	8	\$672.00	\$0.00	\$0.00	\$672.00
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Hours:			1074	1340	644	0	0	0	0	3058				
Total Base Contract Labor Cost:			\$90,216.00	\$93,499.84	\$25,244.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$208,960.64	\$11,910.00	\$0.00	\$220,870.64
Optional Tasks														
3.1.4	---	Project Management (18 months)	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.16	all subtasks	Biological Survey and Documentation	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.17	all subtasks	Jurisdictional Delineation	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.18	all subtasks	Hazardous Waste Inventory	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.23	all subtasks	Maintenance Plan	4	24	0	0	0	0	0	28	\$2,010.62	\$0.00	\$0.00	\$2,010.62
3.24	all subtasks	Expanded Implementation Plan	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	12	0	0	0	0	0	0	12	\$1,008.00	\$80.00	\$0.00	\$1,088.00
3.25.2	12 meetings	Public Involvement: Additional Meetings	28	0	0	0	0	0	0	28	\$2,352.00	\$80.00	\$0.00	\$2,432.00
3.25.5.1	3 each, 2500 copies	Public Involvement: Newsletters	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.5.2	6 each, 1500 copies	Public Involvement: Newsletters, add. copies	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.7	28 meetings	Public Involvement: Individual Meetings	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.8	7 each, 1500 copies	Public Involvement: PowerPoint Presentations	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.9	---	Public Involvement: Media Program	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.1.5	---	CADD Contingency	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Hours:			44	24	0	0	0	0	0	68				
Total Optional Contract Labor Cost:			\$3,696.00	\$1,674.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,370.62	\$160.00	\$0.00	\$5,530.62
Total Contract Hours:			1118	1364	644	0	0	0	0	3126				
Total Contract Labor Cost:			\$93,912.00	\$95,174.46	\$25,244.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$214,331.26	\$12,070.00	\$0.00	\$226,401.26

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT SCHEDULED PROJECT DIRECT, AND MINOR SUBCONSULTANT, EXPENSES**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO. FCD 99-23
CHANGE ORDER NO. n/a

Task Number	Contract Task Description	Direct Expenses							Minor Subconsultants				Total Minor Sub.	Total Minor Sub. and Direct Expenses
		Mileage (\$0.31/mi)	Backhoe	Historic Aerial Photos	Supplies	n/a	n/a	n/a	Total Direct Expenses	n/a	n/a	n/a		
Base Contract Tasks														
3.1	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.5	Coordination	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.6	Meetings (other than defined elsewhere)	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00
3.7	Site Visits	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00
3.8	Data Collection and Analysis	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,000.00
3.9	Field Surveying and Mapping	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.10	Hydrologic Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.11	Hydraulics Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.12	Sedimentation	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00
3.13	Potential Lateral Migration Analysis	\$1,450.00	\$5,000.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$8,450.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,450.00
3.14	Flood Warning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.15	Alternatives Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.20	Visual and Recreational Potential Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.21	Recommended Alternative Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.22	Watercourse Master Plan Reports	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1	Public Involvement: 3 public meetings	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60.00
3.25.5	Public Involvement: 3 Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Direct Expenses:		\$1,910.00	\$5,000.00	\$3,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$11,910.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,910.00
Optional Tasks														
3.1.4	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.16	Biological Survey and Documentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.17	Jurisdictional Delineation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.18	Hazardous Waste Inventory	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.23	Maintenance Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Expanded Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	Public Involvement: 3 public meetings	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00
3.25.2	Public Involvement: Additional Meetings	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00
3.25.5.1	Public Involvement: Newsletters	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.5.2	Public Involvement: Newsletters, add. copies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.7	Public Involvement: Individual Meetings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.8	Public Involvement: PowerPoint Presentations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.9	Public Involvement: Media Program	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.1.5	CADD Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Direct Expenses:		\$160.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$160.00	\$0.00	\$0.00	\$0.00	\$0.00	\$160.00
Total Contract Direct Expenses:		\$2,070.00	\$5,000.00	\$3,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$12,070.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,070.00

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999											1999 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV			DEC
Proj. Mgr.								56	83	89	103	106	437	1074
Hydrologist								80	125	144	175	167	691	1340
Tech.								53	83	77	67	66	347	644
Total Hours:								189	291	310	345	340	1474	3058

CONSULTANT FEE PROJECT PERSONNEL	1999											1999 TOTALS	PROJECT TOTALS	
	AUG	SEP	OCT	NOV	DEC									
Proj. Mgr.								\$4,692	\$6,990	\$7,446	\$8,636	\$8,936	\$36,700	\$90,216
Hydrologist								\$5,591	\$8,706	\$10,034	\$12,189	\$11,663	\$48,183	\$93,500
Tech.								\$2,080	\$3,268	\$3,023	\$2,641	\$2,586	\$13,598	\$25,245
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:								\$12,363	\$18,964	\$20,502	\$23,467	\$23,185	\$98,481	\$208,961

Total Direct Expenses:								\$705	\$1,081	\$1,169	\$1,338	\$1,321	\$5,613	\$11,910
Total JEF:								\$13,068	\$20,045	\$21,671	\$24,804	\$24,506	\$104,094	\$220,871

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	85	87	69	30	39	47	49	41	32	48	38	36	603	1074
Hydrologist	96	123	107	62	66	29	29	46	59	24	2	2	646	1340
Tech.	43	49	37	14	18	19	18	22	18	25	13	13	288	644
														0
														0
														0
														0
														0
Total Hours:	224	258	213	106	123	96	96	110	109	97	54	51	1537	3058

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$7,155	\$7,324	\$5,813	\$2,553	\$3,276	\$3,945	\$4,132	\$3,483	\$2,664	\$4,056	\$3,208	\$3,056	\$50,664	\$90,216
Hydrologist	\$6,725	\$8,551	\$7,462	\$4,353	\$4,624	\$2,053	\$1,998	\$3,226	\$4,124	\$1,644	\$164	\$160	\$45,083	\$93,500
Tech.	\$1,667	\$1,902	\$1,443	\$531	\$704	\$754	\$719	\$859	\$718	\$991	\$515	\$492	\$11,295	\$25,245
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:	\$15,547	\$17,777	\$14,718	\$7,437	\$8,604	\$6,751	\$6,849	\$7,568	\$7,506	\$6,692	\$3,887	\$3,707	\$107,042	\$208,961

Total Direct Expenses:	\$886	\$1,013	\$839	\$424	\$490	\$385	\$390	\$431	\$428	\$381	\$222	\$211	\$6,101	\$11,910
Total JEF:	\$16,433	\$18,791	\$15,556	\$7,861	\$9,094	\$7,136	\$7,239	\$7,999	\$7,933	\$7,073	\$4,108	\$3,919	\$113,143	\$220,871

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	32	2												34	1074
Hydrologist	3	0												3	1340
Tech.	9	0												9	644
															0
															0
															0
															0
															0
Total Hours:	44	2												46	3058

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	\$2,714	\$139												\$2,853	\$90,216
Hydrologist	\$203	\$31												\$234	\$93,500
Tech.	\$351	\$0												\$351	\$25,245
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
Total Labor Cost:	\$3,268	\$169												\$3,438	\$208,961

Total Direct Expenses:	\$186	\$10												\$196	\$11,910
Total JEF:	\$3,455	\$179												\$3,634	\$220,871

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.								3	4	4	2	1	14	44
Hydrologist								0	0	0	0	0	0	24
Tech.								0	0	0	0	0	0	0
Total Hours:								3	4	4	2	1	14	68

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	AUG	SEP	OCT	NOV	DEC									
Proj. Mgr.								\$227	\$357	\$340	\$129	\$81	\$1,135	\$3,696
Hydrologist								\$0	\$0	\$0	\$0	\$0	\$0	\$1,675
Tech.								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:								\$227	\$357	\$340	\$129	\$81	\$1,135	\$5,371

Total Direct Expenses:								\$7	\$11	\$10	\$4	\$2	\$34	\$160
Total JEF:								\$234	\$368	\$350	\$133	\$84	\$1,169	\$5,531

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	4	4	4	2	0	0	1	3	3	4	2	2	29	44
Hydrologist	0	0	0	0	0	0	0	0	0	14	10	0	24	24
Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hours:	4	4	4	2	0	0	1	3	3	18	12	2	53	68

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Proj. Mgr.	\$341	\$341	\$373	\$162	\$0	\$0	\$71	\$232	\$212	\$332	\$145	\$192	\$2,400	\$3,696
Hydrologist	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$949	\$726	\$0	\$1,675	\$1,675
Tech.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:	\$341	\$341	\$373	\$162	\$0	\$0	\$71	\$232	\$212	\$1,281	\$871	\$192	\$4,075	\$5,371

Total Direct Expenses:	\$10	\$10	\$11	\$5	\$0	\$0	\$2	\$7	\$6	\$38	\$26	\$6	\$121	\$160
Total JEF:	\$351	\$351	\$384	\$167	\$0	\$0	\$73	\$239	\$218	\$1,319	\$897	\$197	\$4,196	\$5,531

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: JE Fuller/ Hydrology & Geomorphology, Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Proj. Mgr.	2	0												2	44
Hydrologist	0	0												0	24
Tech.	0	0												0	0
															0
															0
															0
															0
Total Hours:	2	0												2	68

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Proj. Mgr.	\$161	\$0												\$161	\$3,696
Hydrologist	\$0	\$0												\$0	\$1,675
Tech.	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
	\$0	\$0												\$0	\$0
Total Labor Cost:	\$161	\$0												\$161	\$5,371

Total Direct Expenses:	\$5	\$0												\$5	\$160
Total JEF:	\$166	\$0												\$166	\$5,531

ATTACHMENT 5

Fee Proposal Forms for Logan Simpson Design Inc.

EXHIBIT A

CONSULTANT/SUBCONSULTANT AUTHORIZED COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: Logan Simpson Design Inc.

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Environmental Planner	745	\$30.00	\$22,350.00
Senior Landscape Architect	236	\$30.00	\$7,080.00
Public Coordinator	28	\$25.00	\$700.00
Biologist	16	\$18.00	\$288.00
Planner	144	\$16.00	\$2,304.00
Graphics	898	\$14.00	\$12,572.00
Technician/CADD	374	\$12.00	\$4,488.00

Subtotal Labor: \$49,782.00

Overhead @ 150% of Labor: \$74,673.00

Total Labor: \$124,455.00

Salary Fringes: 48%

G&A Overhead: 102%

AUTHORIZED DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$771.00
Photography	\$360.00
Refreshments	\$750.00
Newspaper Notice	\$6,888.00
Outside Reproduction	\$12,729.00
Postage	\$7,365.00
Miscellaneous, Permits, Maps	\$1,327.00

Total Expenses: \$30,190.00

EXHIBIT A

CONSULTANT/SUBCONSULTANT OPTIONAL COST PROPOSAL SUMMARY

CONSULTANT/SUBCONSULTANT: Logan Simpson Design Inc.

PROJECT NAME: Skunk Creek Watercourse Master Plan

CONTRACT NO: 99-23

CHANGE ORDER NO:

DATE: 8/26/99

DIRECT LABOR			
Classification	Manhours	Hourly Rates	Labor Costs
Environmental Planner	392	\$30.00	\$11,760.00
Senior Landscape Architect	56	\$30.00	\$1,680.00
Public Coordinator	60	\$25.00	\$1,500.00
Biologist	328	\$18.00	\$5,904.00
Planner	248	\$16.00	\$3,968.00
Graphics	1054	\$14.00	\$14,756.00
Technician/CADD	414	\$12.00	\$4,968.00

Subtotal Labor: \$44,536.00

Overhead @ 150% of Labor: \$66,804.00

Total Labor: \$111,340.00

Salary Fringes: 48%

G&A Overhead: 102%

OPTIONAL DIRECT AND OUTSIDE EXPENSES	
Description	Expense Amount
Mileage (\$0.31/mile)	\$1,293.00
Photography	\$280.00
Refreshments	\$750.00
Newspaper Notice	\$6,888.00
Outside Reproduction	\$29,729.00
Postage	\$14,025.00
Miscellaneous, Permits, Maps	\$4,527.00

Total Expenses: \$57,492.00

SUBCONSULTANT AUTHORIZED FEES		
Name of Subconsultant	Task	Cost

Total Authorized Subconsultants: \$0.00
 Total Authorized Labor: \$124,455.00
 Total Authorized Expenses: \$30,190.00

Total Authorized Consultant Cost \$154,645.00
 Net Authorized Fee (Total Labor x 10%): \$12,445.50

TOTAL AUTHORIZED PROPOSED FEE: \$167,090.50

SUBCONSULTANT OPTIONAL FEES		
Name of Subconsultant	Task	Cost

Total Optional Subconsultants: \$0.00
 Total Optional Labor: \$111,340.00
 Total Optional Expenses: \$57,492.00

Total Optional Consultant Cost \$168,832.00
 Net Optional Fee (Total Labor x 10%): \$11,134.00

TOTAL OPTIONAL PROPOSED FEE: \$179,966.00

TOTAL PROPOSED FEE SUMMARY:
Total Subconsultants: \$0.00
Total Labor: \$235,795.00
Total Expenses: \$87,682.00

Total Consultant Cost \$323,477.00
Net Fee (Total Labor x 12%): \$23,579.50

TOTAL PROPOSED FEE: \$347,056.50

 Signature

 Name (print)

 Title

 Date

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED PROJECT MANHOURS

CONSULTANT/SUBCONSULTANT NAME: Logan Simpson Design Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO. FCD 99-23
CHANGE ORDER NO: n/a

Task Number	Included Task Numbers/Scope	Contract Task Description	Labor Classifications								Total Manhours	Total Labor	Total Expenses	Total Minor Subs	Total Cost
			Env. Planner \$82.50 \$/hr	Sr. L. Arch. \$82.50 \$/hr	Public Cd. \$68.75 \$/hr	Biologist \$49.50 \$/hr	Planner \$44.00 \$/hr	Graphics \$38.50 \$/hr	Tech/CADD \$33.00 \$/hr						
Base Contract Tasks															
3.1	3.3, 3.3, 3.4	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.5	all subtasks	Coordination	90	0	0	0	0	0	0	0	90	\$7,425.00	\$57.00	\$0.00	\$7,482.00
3.6	all subtasks	Meetings (other than defined elsewhere)	91	0	0	0	0	0	0	0	91	\$7,507.50	\$128.00	\$0.00	\$7,635.50
3.7	all subtasks	Site Visits	40	0	0	0	0	0	0	0	40	\$3,300.00	\$93.00	\$0.00	\$3,393.00
3.8	all subtasks	Data Collection and Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.9	all subtasks	Field Surveying and Mapping	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.10	all subtasks	Hydrologic Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.11	all subtasks	Hydraulic Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.12	all subtasks	Sedimentation	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.13	all but 3.13.1, 12 & 13	Potential Lateral Migration Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.14	all subtasks	Flood Warning	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.15	all subtasks	Alternatives Analysis	40	96	0	0	0	240	0	0	376	\$20,460.00	\$27.00	\$0.00	\$20,487.00
3.20	all subtasks	Visual and Recreational Potential Analysis	224	0	0	0	0	184	0	0	408	\$25,564.00	\$548.00	\$0.00	\$26,112.00
3.21	all subtasks	Recommended Alternative Analysis	40	64	0	16	16	0	0	0	136	\$10,078.00	\$27.00	\$0.00	\$10,103.00
3.22	all subtasks	Watercourse Master Plan Reports	16	16	0	0	0	0	0	0	32	\$2,640.00	\$0.00	\$0.00	\$2,640.00
3.24	all subtasks	Implementation Plan	24	60	0	0	0	0	0	0	84	\$6,930.00	\$27.00	\$0.00	\$6,957.00
3.25.1	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	120	0	28	0	128	339	243	0	858	\$38,527.50	\$14,055.00	\$0.00	\$52,582.50
3.25.5	3 each, 2500 copies	Public Involvement: 3 Newsletters	60	0	0	0	0	135	131	0	326	\$14,470.50	\$15,228.00	\$0.00	\$29,698.50
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.27	all subtasks	Permits and Approvals	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Hours:			745	236	28	16	144	898	374	0	2441				
Total Base Contract Labor Cost:			\$81,462.50	\$19,470.00	\$1,925.00	\$792.00	\$6,336.00	\$34,573.00	\$12,342.00	\$0.00		\$136,900.50	\$30,190.00	\$0.00	\$167,090.50
Optional Tasks															
3.14	---	Project Management (18 months)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.16	all subtasks	Biological Survey and Documentation	16	0	0	208	120	0	24	0	368	\$17,688.00	\$293.00	\$0.00	\$17,981.00
3.17	all subtasks	Jurisdictional Delineation	6	32	0	120	0	216	0	0	374	\$17,391.00	\$393.00	\$0.00	\$17,784.00
3.18	all subtasks	Hazardous Waste Inventory	4	0	0	0	0	0	16	0	20	\$858.00	\$2,700.00	\$0.00	\$3,558.00
3.23	all subtasks	Maintenance Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.24	all subtasks	Expanded Implementation Plan	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	3.25.3, 3.25.4, 3.25.6	Public Involvement: 3 public meetings	120	0	28	0	128	339	243	0	858	\$38,527.50	\$14,055.00	\$0.00	\$52,582.50
3.25.2	12 meetings	Public Involvement: Additional Meetings	24	0	0	0	0	0	0	0	24	\$1,980.00	\$186.00	\$0.00	\$2,166.00
3.25.5.1	3 each, 2500 copies	Public Involvement: Newsletters	60	0	0	0	0	135	131	0	326	\$14,470.50	\$15,228.00	\$0.00	\$29,698.50
3.25.5.2	6 each, 1500 copies	Public Involvement: Newsletters, add. copies	0	0	0	0	0	0	0	0	0	\$0.00	\$23,660.00	\$0.00	\$23,660.00
3.25.7	28 meetings	Public Involvement: Individual Meetings	84	0	0	0	0	0	0	0	84	\$6,930.00	\$446.00	\$0.00	\$7,376.00
3.25.8	7 each, 1500 copies	Public Involvement: PowerPoint Presentations	56	0	0	0	0	340	0	0	396	\$17,710.00	\$500.00	\$0.00	\$18,210.00
3.25.9	---	Public Involvement: Media Program	22	0	32	0	0	24	0	0	78	\$4,939.00	\$31.00	\$0.00	\$4,970.00
3.26	all subtasks	Rights-of-Way and Easements	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
3.27	all subtasks	Permits and Approvals	0	24	0	0	0	0	0	0	24	\$1,980.00	\$0.00	\$0.00	\$1,980.00
3.1.5	---	CADD Contingency	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Hours:			392	56	60	328	248	1054	414	0	2552				
Total Optional Contract Labor Cost:			\$32,340.00	\$4,620.00	\$4,125.00	\$16,236.00	\$10,912.00	\$40,579.00	\$13,662.00	\$0.00		\$122,474.00	\$57,492.00	\$0.00	\$179,966.00
Total Contract Hours:			1137	292	88	344	392	1952	788	0	4993				
Total Contract Labor Cost:			\$93,802.50	\$24,090.00	\$6,050.00	\$17,028.00	\$17,248.00	\$75,152.00	\$26,004.00	\$0.00		\$259,374.50	\$87,682.00	\$0.00	\$347,056.50

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT SCHEDULED PROJECT DIRECT, AND MINOR SUBCONSULTANT, EXPENSES**

CONSULTANT/SUBCONSULTANT NAME: Logan Simpson Design Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO: n/a

Task Number	Contract Task Description	Direct Expenses								Minor Subconsultants				Total Minor Sub. and Direct Expenses
		Mileage (\$0.31/ml)	Photography	Refreshments	Newspaper Notice	Outside Reproduction	Postage	Misc. Permits, maps	Total Direct Expenses	n/a	n/a	n/a	Total Minor Sub.	
Base Contract Tasks														
3.1	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.5	Coordination	\$57.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$57.00	\$0.00	\$0.00	\$0.00	\$57.00
3.6	Meetings (other than defined elsewhere)	\$128.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$128.00	\$0.00	\$0.00	\$0.00	\$128.00
3.7	Site Visits	\$93.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$93.00	\$0.00	\$0.00	\$0.00	\$93.00
3.8	Data Collection and Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.9	Field Surveying and Mapping	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.10	Hydrologic Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.11	Hydraulics Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.12	Sedimentation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.13	Potential Lateral Migration Analysis	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.14	Flood Warning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.15	Alternatives Analysis	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.00	\$0.00	\$0.00	\$0.00	\$27.00
3.20	Visual and Recreational Potential Analysis	\$248.00	\$300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$548.00	\$0.00	\$0.00	\$0.00	\$548.00
3.21	Recommended Alternative Analysis	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.00	\$0.00	\$0.00	\$0.00	\$27.00
3.22	Watercourse Master Plan Reports	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Implementation Plan	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.00	\$0.00	\$0.00	\$0.00	\$27.00
3.25.1	Public Involvement: 3 public meetings	\$108.00	\$60.00	\$750.00	\$6,888.00	\$3,563.00	\$1,485.00	\$1,201.00	\$14,055.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,055.00
3.25.5	Public Involvement: 3 Newsletters	\$56.00	\$0.00	\$0.00	\$0.00	\$9,166.00	\$5,880.00	\$126.00	\$15,228.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,228.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Base Contract Direct Expenses:		\$771.00	\$360.00	\$750.00	\$6,888.00	\$12,729.00	\$7,365.00	\$1,327.00	\$30,190.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,190.00
Optional Tasks														
3.1.4	Project Management (18 months)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.16	Biological Survey and Documentation	\$233.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$293.00	\$0.00	\$0.00	\$0.00	\$0.00	\$293.00
3.17	Jurisdictional Delineation	\$233.00	\$160.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$393.00	\$0.00	\$0.00	\$0.00	\$0.00	\$393.00
3.18	Hazardous Waste Inventory	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,700.00	\$2,700.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,700.00
3.23	Maintenance Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.24	Expanded Implementation Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.25.1.4	Public Involvement: 3 public meetings	\$108.00	\$60.00	\$750.00	\$6,888.00	\$3,563.00	\$1,485.00	\$1,201.00	\$14,055.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,055.00
3.25.2	Public Involvement: Additional Meetings	\$186.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$186.00	\$0.00	\$0.00	\$0.00	\$0.00	\$186.00
3.25.5.1	Public Involvement: Newsletters	\$56.00	\$0.00	\$0.00	\$0.00	\$9,166.00	\$5,880.00	\$126.00	\$15,228.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,228.00
3.25.5.2	Public Involvement: Newsletters, add. copies	\$0.00	\$0.00	\$0.00	\$0.00	\$17,000.00	\$6,660.00	\$0.00	\$23,660.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23,660.00
3.25.7	Public Involvement: Individual Meetings	\$446.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$446.00	\$0.00	\$0.00	\$0.00	\$0.00	\$446.00
3.25.8	Public Involvement: PowerPoint Presentations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00
3.25.9	Public Involvement: Media Program	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31.00
3.26	Rights-of-Way and Easements	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.27	Permits and Approvals	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.1.5	CADD Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Optional Contract Direct Expenses:		\$1,293.00	\$280.00	\$750.00	\$6,888.00	\$29,729.00	\$14,025.00	\$4,527.00	\$57,492.00	\$0.00	\$0.00	\$0.00	\$0.00	\$57,492.00
Total Contract Direct Expenses:		\$2,064.00	\$640.00	\$1,500.00	\$13,776.00	\$42,458.00	\$21,390.00	\$5,854.00	\$87,682.00	\$0.00	\$0.00	\$0.00	\$0.00	\$87,682.00

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Logan Simpson Design Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Env. Planner								23	40	46	63	57	228	745
Sr. L. Arch.								2	4	3	4	4	16	236
Public Cd.								0	0	2	5	5	12	28
Biologist								0	0	0	0	0	0	16
Planner								0	0	7	23	24	55	144
Graphics								9	32	52	96	81	270	898
Tech/CADD								0	17	33	64	49	162	374
0								0	0	0	0	0	0	0
Total Hours:								34	92	144	254	220	744	2441

CONSULTANT FEE PROJECT PERSONNEL	1999												1999 TOTALS	PROJECT TOTALS
	AUG	SEP	OCT	NOV	DEC									
Env. Planner								\$1,856	\$3,282	\$3,821	\$5,169	\$4,699	\$18,828	\$61,463
Sr. L. Arch.								\$184	\$289	\$276	\$289	\$302	\$1,339	\$19,470
Public Cd.								\$0	\$0	\$111	\$347	\$363	\$821	\$1,925
Biologist								\$0	\$0	\$0	\$0	\$0	\$0	\$792
Planner								\$0	\$0	\$323	\$1,016	\$1,062	\$2,400	\$6,336
Graphics								\$346	\$1,224	\$2,020	\$3,685	\$3,136	\$10,410	\$34,573
Tech/CADD								\$0	\$566	\$1,086	\$2,102	\$1,601	\$5,355	\$12,342
0								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:								\$2,386	\$5,361	\$7,636	\$12,608	\$11,163	\$39,154	\$136,901

Total Direct Expenses:								\$16	\$4,916	\$4,931	\$84	\$74	\$10,020	\$30,190
Total LSD:								\$2,402	\$5,396	\$7,687	\$12,691	\$11,237	\$49,174	\$167,091

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Env. Planner	51	42	67	63	59	36	36	46	38	29	15	15	498	745
Sr. L. Arch.	7	15	20	21	24	14	14	30	32	29	6	6	216	236
Public Cd.	3	0	5	5	4	0	0	0	0	0	0	0	16	28
Biologist	0	0	0	0	0	0	0	4	6	6	0	0	16	16
Planner	14	0	21	21	18	0	0	4	6	6	0	0	89	144
Graphics	66	61	132	132	116	34	33	36	17	0	0	0	628	898
Tech/CADD	34	19	61	58	40	0	0	0	0	0	0	0	212	374
														0
Total Hours:	174	137	304	300	261	85	83	120	99	70	22	21	1674	2441

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Env. Planner	\$4,174	\$3,473	\$5,523	\$5,201	\$4,902	\$2,964	\$3,010	\$3,787	\$3,127	\$2,430	\$1,269	\$1,226	\$41,084	\$61,463
Sr. L. Arch.	\$540	\$1,200	\$1,619	\$1,751	\$1,942	\$1,176	\$1,122	\$2,435	\$2,627	\$2,386	\$506	\$483	\$17,785	\$19,470
Public Cd.	\$205	\$0	\$316	\$316	\$268	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,104	\$1,925
Biologist	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$201	\$302	\$288	\$0	\$0	\$792	\$792
Planner	\$600	\$0	\$923	\$923	\$785	\$0	\$0	\$179	\$269	\$257	\$0	\$0	\$3,936	\$6,336
Graphics	\$2,539	\$2,349	\$5,068	\$5,088	\$4,481	\$1,325	\$1,265	\$1,385	\$663	\$0	\$0	\$0	\$24,163	\$34,573
Tech/CADD	\$1,123	\$626	\$2,000	\$1,911	\$1,327	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,987	\$12,342
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:	\$9,180	\$7,648	\$15,448	\$15,190	\$13,705	\$5,465	\$5,396	\$7,988	\$6,987	\$5,360	\$1,775	\$1,709	\$95,851	\$136,901

Total Direct Expenses:	\$4,941	\$4,931	\$102	\$4,981	\$4,971	\$36	\$36	\$53	\$46	\$36	\$12	\$11	\$20,157	\$30,190
Total LSD:	\$9,241	\$7,698	\$15,550	\$15,290	\$13,796	\$5,501	\$5,432	\$8,041	\$7,034	\$5,396	\$1,786	\$1,720	\$116,008	\$167,091

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED AUTHORIZED PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Logan Simpson Design Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Env. Planner	16	2												19	745
Sr. L. Arch.	4	0												4	236
Public Cd.	0	0												0	28
Biologist	0	0												0	16
Planner	0	0												0	144
Graphics	0	0												0	898
Tech/CADD	0	0												0	374
															0
Total Hours:	21	2												23	2441

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Env. Planner	\$1,355	\$195												\$1,550	\$61,463
Sr. L. Arch.	\$346	\$0												\$346	\$19,470
Public Cd.	\$0	\$0												\$0	\$1,925
Biologist	\$0	\$0												\$0	\$792
Planner	\$0	\$0												\$0	\$6,336
Graphics	\$0	\$0												\$0	\$34,573
Tech/CADD	\$0	\$0												\$0	\$12,342
	\$0	\$0												\$0	\$0
Total Labor Cost:	\$1,701	\$195												\$1,896	\$136,901

Total Direct Expenses:	\$11	\$1												\$13	\$30,190
Total LSD:	\$1,712	\$196												\$1,908	\$167,091

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

CONSULTANT/SUBCONSULTANT NAME: Logan Simpson Design Inc.
PROJECT NAME: Skunk Creek Watercourse Master Plan
DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	1999											1999 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV			DEC
Env. Planner								20	32	30	14	10	105	392
Sr. L. Arch.								3	5	5	5	5	23	56
Public Cd.								3	5	5	2	1	15	60
Biologist								32	50	48	50	52	231	328
Planner								12	18	17	18	19	84	248
Graphics								56	88	84	53	47	328	1054
Tech/CADD								2	4	3	4	4	17	414
0								0	0	0	0	0		0
Total Hours:								128	201	192	145	138	803	2552

CONSULTANT FEE PROJECT PERSONNEL	1999											1999 TOTALS	PROJECT TOTALS	
	AUG	SEP	OCT	NOV	DEC									
Env. Planner								\$1,657	\$2,604	\$2,485	\$1,122	\$817	\$8,684	\$32,340
Sr. L. Arch.								\$255	\$401	\$382	\$401	\$419	\$1,858	\$4,620
Public Cd.								\$212	\$333	\$318	\$121	\$76	\$1,061	\$4,125
Biologist								\$1,568	\$2,464	\$2,351	\$2,464	\$2,575	\$11,422	\$16,236
Planner								\$510	\$801	\$765	\$801	\$837	\$3,714	\$10,912
Graphics								\$2,156	\$3,388	\$3,234	\$2,035	\$1,802	\$12,615	\$40,579
Tech/CADD								\$77	\$120	\$115	\$120	\$126	\$557	\$13,662
0								\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:								\$6,434	\$10,111	\$9,650	\$7,064	\$6,652	\$39,911	\$122,474

Total Direct Expenses:								\$239	\$376	\$4,302	\$262	\$247	\$5,426	\$57,492
Total LSD:								\$6,673	\$10,487	\$10,008	\$7,326	\$6,899	\$45,337	\$179,966

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONSULTANT/SUBCONSULTANT SCHEDULED OPTIONAL PROJECT MANHOURS**

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CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Env. Planner	30	30	30	17	0	7	18	38	28	19	10	33	261	392
Sr. L. Arch.	5	5	1	3	4	3	3	4	3	3	0	0	33	56
Public Cd.	5	5	5	2	0	0	2	6	6	4	0	5	40	60
Biologist	48	48	2	0	0	0	0	0	0	0	0	0	97	328
Planner	17	17	1	0	0	0	9	29	27	18	0	24	143	248
Graphics	84	84	59	25	0	16	46	102	78	53	23	87	656	1054
Tech/CADD	3	3	0	15	1	15	39	79	57	39	23	68	343	414
														0
Total Hours:	192	192	98	62	5	42	117	259	199	136	56	217	1574	2552

CONSULTANT FEE PROJECT PERSONNEL	2000												2000 TOTALS	PROJECT TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Env. Planner	\$2,486	\$2,486	\$2,447	\$1,373	\$16	\$580	\$1,505	\$3,166	\$2,311	\$1,579	\$851	\$2,694	\$21,492	\$32,340
Sr. L. Arch.	\$382	\$382	\$69	\$257	\$295	\$283	\$270	\$295	\$270	\$258	\$0	\$0	\$2,762	\$4,620
Public Cd.	\$319	\$319	\$349	\$152	\$0	\$0	\$135	\$443	\$404	\$270	\$0	\$366	\$2,756	\$4,125
Biologist	\$2,351	\$2,351	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,814	\$16,236
Planner	\$765	\$765	\$37	\$0	\$0	\$0	\$394	\$1,295	\$1,183	\$788	\$0	\$1,070	\$6,296	\$10,912
Graphics	\$3,234	\$3,234	\$2,280	\$966	\$0	\$609	\$1,766	\$3,935	\$2,985	\$2,030	\$894	\$3,333	\$25,266	\$40,579
Tech/CADD	\$115	\$115	\$6	\$503	\$25	\$507	\$1,271	\$2,621	\$1,887	\$1,292	\$743	\$2,233	\$11,316	\$13,662
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Labor Cost:	\$9,652	\$9,652	\$5,300	\$3,251	\$336	\$1,979	\$5,340	\$11,756	\$9,039	\$6,217	\$2,487	\$9,695	\$74,703	\$122,474

Total Direct Expenses:	\$358	\$4,302	\$197	\$121	\$3,956	\$4,954	\$9,022	\$437	\$5,216	\$9,055	\$92	\$5,241	\$42,951	\$57,492
Total LSD:	\$10,010	\$10,010	\$5,497	\$3,372	\$349	\$2,052	\$5,539	\$12,193	\$9,374	\$6,447	\$2,580	\$10,055	\$117,654	\$179,966

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DATE: 8/26/99

CONTRACT NO: FCD 99-23
CHANGE ORDER NO:

CONSULTANT MANHOURS PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
Env. Planner	26	0												26	392
Sr. L. Arch.	0	0												0	56
Public Cd.	4	0												4	60
Biologist	0	0												0	328
Planner	20	0												20	248
Graphics	70	0												70	1054
Tech/CADD	54	0												54	414
															0
Total Hours:	175	0												175	2552

CONSULTANT FEE PROJECT PERSONNEL	2001												2001 TOTALS	PROJECT TOTALS	
	JAN	FEB													
Env. Planner	\$2,164	\$0												\$2,164	\$32,340
Sr. L. Arch.	\$0	\$0												\$0	\$4,620
Public Cd.	\$308	\$0												\$308	\$4,125
Biologist	\$0	\$0												\$0	\$16,236
Planner	\$901	\$0												\$901	\$10,912
Graphics	\$2,698	\$0												\$2,698	\$40,579
Tech/CADD	\$1,789	\$0												\$1,789	\$13,662
	\$0	\$0												\$0	\$0
Total Labor Cost:	\$7,860	\$0												\$7,860	\$122,474

Total Direct Expenses:	\$9,116	\$0												\$9,116	\$57,492
Total LSD:	\$16,975	\$0												\$16,975	\$179,966