

*Base line*

920,002

Baseline Road Bridges at RWCD Canal and Floodway

**A121.507**

# Royden Engineering Co.

(602) 279-3541  
H. L. ROYDEN, P.E.  
THOMAS S. ROYDEN, P.E.  
RICHARD M. MOSEKE, P.E.

2846 W. WELDON AVENUE  
P. O. BOX 3707  
PHOENIX, ARIZONA 85030

December 9, 1982

Swengel-Robbins Contracting Co.  
7418 E. Helm Dr.  
Scottsdale, Arizona 85253

Gentlemen:

We have been contracted to provide inspection and contract administration for the Elliott & Baseline Road projects over the RWCD Canal & Floodway.

Our key people are listed below:

	<u>Office Phone</u>	<u>Home Phone</u>
Senior Resident Engineer - Andy DiLeo	279-3541	943-7116
Project Resident Engineer - Jack Coash	279-3541	247-5282
Project Inspector - Jon Jahnke	279-3541	846-5946
President, Royden Engineering Co. - Dick Moseke	279-3541	973-4046
Vice President, Royden Engineering Co. - Tom S. Royden	279-3541	253-1801

All correspondence should be addressed to:

Royden Engineering Co.  
2846 W. Weldon Ave.  
Phoenix, Ariz. 85017

Your contract calls for you to perform the field staking and layout with main control lines and grades set by us. We are also required to check your surveying layouts. We will require a copy of your field notes from your registered surveyor or Civil Engineer in order to check your layouts. We advise you that a minimum of 24 hours notice will be required when survey layout is to be field checked, such as before a concrete pour.

December 9, 1982

Swengel-Robbins Contracting Co.

Page -2-

We will expect a contactman from the prime contractor to be available at the job site.

We have discovered some conflicts on the plans and we will be furnishing you with copies of necessary changes to be incorporated into the plans as soon as possible.

We would propose to initiate a change order to pay for watering at a lump sum on both projects. Payment would be on a pro-rata basis of earthwork completed.

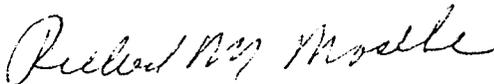
We would require an updated schedule on a two-week basis in order to better provide any needed service in a timely manner.

We plan to use Thomas-Hertig & Associates for compaction testing and concrete cylinder tests.

Please contact me if you have any questions on the above.

Sincerely,

ROYDEN ENGINEERING CO.



Richard M. Moseke, P.E.

RMM/dg

Pre-Construction Meeting - 2:00 PM  
 Baseline and Elliot Rd Bridges

Name	Organization	Phone
E. O. Kirby	FCD	262-1501
R. E. Eddy	FCD	✓✓
Nick Karan	✓	✓
W. C. Anderson	FCD	262-1501
Ed Raleigh	FCD	262-1501
Butch Robbins	Swengel-Robbins	998-3950
MIKE BORDEN	CS CONSTRUCTION INC	979-2088
PHILIP EPSTEIN	MCHD	262-3621
Bill Keyon	"	262-3621
HERB MEALER	"	"
K. C. Bone	" TRAFFIC	262 3631
RAY KOEHLER	SRP POWER	273-2765
Leon Hausman	Z&H Engineering	997-7536
DALE MARTIN	APS	271-7676
MARTY ROSWESS	Z&H ENGINEERING	997-7536
Cora Fernandez	FCD	262-1501
Dick Moseke	McFCD	279-3541
Andy Dileo	Royden Eng.	279-3541
TOM ROYDEN	ROYDEN ENGINEERING	279-3541

# Baseline of Elliot Rds.

Pre-Construction 12-9-82 2 PM

- Plot 13 of 22 (would like to land column down)  
in order to pull from straight up

- Baseline rd canal by <sup>(60")</sup> line, extend this  
~~instead of~~ and delete temporary bridge

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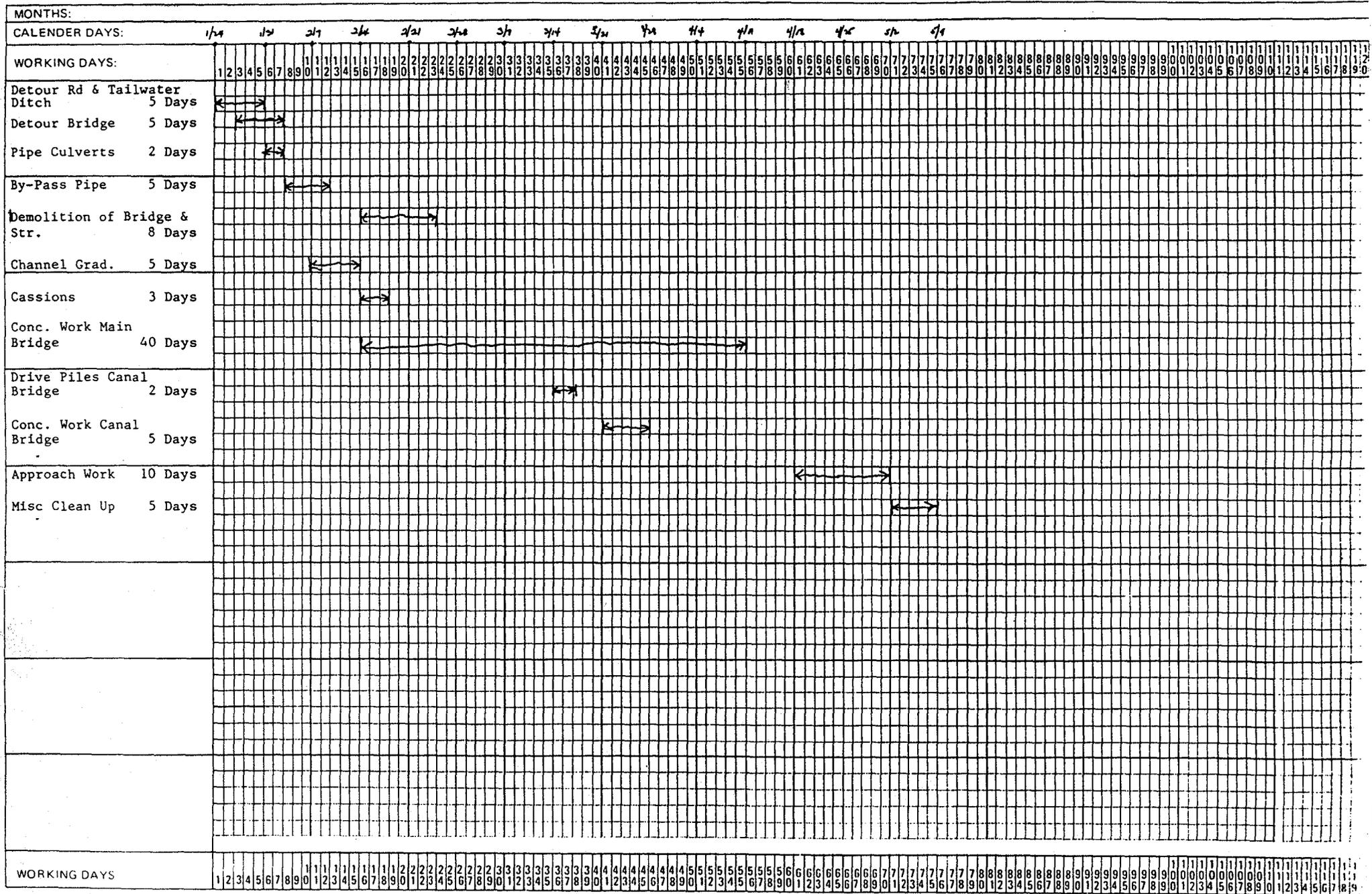
- Lump Sum for Water

- Redesign of Elliot Rd ~~agreements~~ for easier construction

- No notice to proceed until traffic plan is approved  
on Baseline

PROJECT: Baseline Road Bridges over RWCD Floodway & Canal  
 S-R #: 281-247  
 CONTRACT NO. 82-30  
 DATE: December 9, 1982

## CONSTRUCTION SCHEDULE



**BID SUMMARY & CHECKLIST**

PROJECT: Baseline Rd Bridges at RLU Canal & Floodway CONTRACT FCD: 82-30 DATE: Nov. 10, 1982  
Elliot Rd Bridges at RLU Canal & Floodway CONTRACT FCD: 82-31

Item	Name					
	Janner Companies	MAC Contracting	J.W. Baltimore	Sletten Construction	Antcraft Construction	Kester Construction
	82-30	82-31				
Schedule Complete						
Addenda Noted						
No Exceptions						
Changes Initialed						
Proposal Signed						
License Number						
Bid Security						
No Collusion Affidavit						
1 Baseline Rd	619,674.00	595,536.00	673,045.00		585,350.00	
2 Elliot Rd - A	444,030.00	419,732.00	500,575.90			413,408.00
3 " " B						
Baseline Rd Elliot Rd - A1	1,032,612.00		1,173,044.90	1,013,231.60	1,087,593.00	
B1				1,004,731.10	1,093,855.00	
TOTAL CONTRACT						

**BID SUMMARY & CHECKLIST**

*Baseline Rd Bridges at RWD Canal & Floodway*

PROJECT: *Baseline Rd Bridges at RWD Canal & Floodway*

CONTRACT FCD: *82-30*

DATE: *Nov. 10, 1982*

Item	Name <i>Brenholt Contracting</i>	<i>Ronald G. Roth</i>	<i>JUN Contracting</i>	<i>M.M. Swett</i>	<i>Ed. Spang Contracting</i>	<i>V.O. Contracting</i>
				<i>82-30</i>	<i>82-31</i>	
Schedule Complete				✓		✓
Addenda Noted				✓		✓
No Exceptions				✓		✓
Changes Initialed				No changes		✓
Proposal Signed				✓		✓
License Number				-		-
Bid Security				✓		✓
No Collusion Affidavit				Not signed		-
1 <i>Baseline Rd</i>	<i>581,048.00</i>	<i>629,226.91</i>	<i>649,900.00</i>		<i>662,449.00</i>	<i>741,567.00</i>
2 <i>Elliot Rd - A</i>	<i>458,676.00</i>		<i>514,146.00</i>		<i>489,885.00</i>	<i>541,174.00</i>
3 " " - B						<i>559,233.94</i>
<i>Baseline Rd</i>						
<i>Elliot Rd - A</i>			<i>1,149,046.00</i>	<i>972,616.00</i>	<i>1,142,334.00</i>	<i>1,264,176.00</i>
- B						<i>1,284,285.94</i>
TOTAL CONTRACT				<i>972,616.00</i>		

BID SUMMARY & CHECKLIST

PROJECT: BASELINE & BRIDGES @ RUCD CANAL & FLOODWAY CONTRACT FCD: 82-30 DATE: Nov. 10, 1982  
ELLIOT & BRIDGES @ RUCD CANAL & FLOODWAY CONTRACT FCD: 82-31

\* Not all initialed by person signing bid.  
 \* change not initialed on Item 506 Alt. A Bid sch.

Item	Name					
	82-30	82-31				
Schedule Complete	✓	✓				
Addenda Noted	✓	✓				
No Exceptions	✓	✓				
Changes Initialed	*	**				
Proposal Signed	✓	✓				
License Number	-	-				
Bid Security	✓	✓				
No Collusion Affidavit	✓	✓				
1 BASELINE	563,221.00	726,710.50				
2 ELLIOT Col-A	406,180.00	528,287.00				
3 - B		517,686.00				
BASELINE - A,						
ELLIOT - B,						
TOTAL CONTRACT	969,411.00					

*Suzengel Robbins*  
*Engineers Estimate*

TO CONTRACT DOCUMENTS

ENTITLED: Baseline Road Bridges at RWCD Canal and Floodway

OWNER: FLOOD CONTROL DISTRICT of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the Contract Documents and modifies them as follows:

1. In the INVITATION FOR BIDS, page 1 of 5, delete the date "November 4, 1982" and substitute the date "November 10, 1982" as the date scheduled for bid opening.

2. To the Construction Special Provisions, add the following:

SECTION 108: The Contractor shall give priority to the construction of the canal bridge and shall have it completed to such an extent that the canal shall be in usable condition, i.e., carry irrigation water, by February 15, 1983.

SUBSECTION 104.2.4: Any request for change in the design of any bridge member; i.e., beam thickness on the canal bridge, requested by the Contractor must be accompanied by calculations indicating that the requested change conforms to the design standards as indicated by the plans.

3. Delete plans sheets 3 and 7 of 22 and substitute revised plans sheets 3a and 7a of 22 which accompany this addendum.

The spoil site has been relocated from the area south of Baseline Road to an area adjacent to the floodway right-of-way as shown on revised sheet 3a of 22.

To obtain access to the relocated spoil site, the Contractor shall install a pipe culvert of minimum diameter of 18 inches in the relocated Tailwater Ditch. Length of the pipe culvert may be determined by the Contractor to suit his needs. The pipe culvert should be installed in the Tailwater Ditch at left of approximate Sta. 18+50, Baseline Road. Any location other than left of Sta. 18+50 must be approved by the Engineer. At the completion of the project, or at the finish of the spoil hauling operation or as directed by the Engineer, the pipe shall be removed and shall become the property of the contractor. Traffic control will be necessary for hauling across the detour per MAG Section 401.

FCD Contract No. 82-30

Page 1 of 1

TO CONTRACT DOCUMENTS

ENTITLED: Baseline Road Bridges at RWCD Canal and Floodway

OWNER: FLOOD CONTROL DISTRICT of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the Contract Documents and modifies them as follows:

1. In the Construction Special Provisions page 3 of 11 add the following section: "SECTION 105.8 CONSTRUCTION STAKES, LINES AND GRADES: The project control line and bench mark elevation are shown on the drawings and will be established by the Engineer. The Contractor shall establish offset stakes and temporary bench marks for referencing the designated construction lines and grades. The Contractor shall provide all rough grade, fine grade, and structural reference lines and shall be responsible for their conformance with the plans and specifications.

Survey work shall be performed by a qualified and experienced surveyor under the supervision of a licensed land surveyor.

No separate payment will be made for construction surveying and the cost thereof shall be included in the price bid for related items of work."

TO CONTRACT DOCUMENTS

ENTITLED: Baseline Road Bridges at RWCD Canal and Floodway

OWNER: FLOOD CONTROL DISTRICT of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the Contract Documents and modifies them as follows:

1. On the BIDDING SCHEDULE-ITEM 622-3, Page 5 of 15, in the column labeled "Approximate Quantity" delete the number "194" and substitute the number "388." In the column labeled "Description," delete the number "48" and substitute the number "60" to denote pipe diameter.
2. On the ALTERNATE BIDDING SCHEDULE-ITEM 622-3, Page 8 of 15, in the column labeled "Approximate Quantity," delete the number "170" and substitute the number "340." In the column labeled "Description" delete the number "48" and substitute the number "60" to denote pipe diameter.

ITEM 622-3, Page 13 of 15, in the column labeled "Approximate Quantity" delete the number "194" and substitute the number "388." In the column labeled "Description," delete the number "48" and substitute the number "60" to denote pipe diameter.

3. To the Construction Special Provisions, Page 10 of 13, add the following SECTION 622-PIPE CULVERT: Corrugated Metal Pipe, 60" diameter, if furnished as 60" pipe culvert at the Contractor's option, shall be 12 gauge.

SECTION 622-PIPE CULVERT: The second paragraph which now begins "#48" By-Pass Pipes," shall be changed to begin as #60" By-Pass Pipes."

4. On the Plans sheets, No. 21 of 22, in the upper left corner, the note reading "194 L.F.-48" Pipe Culvert (By-Pass) shall be changed to read "388 L.F.-60" Pipe Culvert (By-Pass).

All other references to the By-Pass Pipe in the plans sheets shall be changed from 48" to 60".

ADDENDUM NO. 2  
October 21, 1982

Property of  
Flood Control District of MC Library  
Please Return to  
2801 W. Durango  
Phoenix, AZ 85003

FCD Contract No. 82-30

Page 10 of 1

TO CONTRACT DOCUMENTS

ENTITLED: Baseline Road Bridges at RWCD Canal and Floodway

OWNER: FLOOD CONTROL DISTRICT of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the Contract Documents and modifies them as follows:

1 - To the Construction Special Provisions, add the following:

Subsection 107.2 Permits:

The Contractor shall be responsible to obtain the necessary permit from the Roosevelt Water Conservation District to work within the canal right-of-way. Application should be made to:

Grant Ward  
Roosevelt Water Conservation District  
P. O. Box 168  
Higley, Arizona 85236

ENGINEERING DIVISION  
LIBRARY

TO CONTRACT DOCUMENTS

ENTITLED: Baseline Road Bridges at the RWCD Canal.

OWNER: FLOOD CONTROL DISTRICT of Maricopa County

The above documents are herein modified. The provisions of said documents applicable to these modifications remain unchanged unless specifically indicated otherwise herein. This Addendum forms a part of the Contract Documents and modifies them as follows:

1. To the Construction Special Provisions, add the following:

SECTION 401 - TRAFFIC CONTROL: Traffic control shall conform to the applicable paragraphs of Section 401 of the MAG Uniform Standard Specifications with revisions, the County Supplement thereto and these Special Provisions.

The number and kind of barricades, signs, delineators, barriers and all other traffic control devices can be subject to approval; however, approval of traffic control devices and the approval of the Contractor's method of application of all traffic control measures, shall not relieve the contractor of the responsibility of protecting the work, the workmen and the traveling public.

A road closure is not authorized. Two lanes shall be open for traffic at all times. The contractor shall provide all necessary traffic control devices and measures for this construction to include the striping and the striping removal on the detour road. Paint striping is not authorized on the permanent pavement which will remain after construction. Construction striping tape shall be used and maintained in these areas. The District will stripe the finished road and bridges after final acceptance. The speed limit for the detour road shall be determined by ball banking the curves. All warning signs shall be standard 48 inches in size and mounted on channels or wired down. A 150 foot line of vertical panels with lights and spaced at 30 foot intervals shall be placed on channels 2 feet off the edge of pavement leading to each initial approach to the detour road curve and to each approach to the detour bridge. Traffic shall not be placed on the detour road until all the detour road construction is completed and all traffic measures are installed.

The contractor shall provide a detailed traffic control plan for approval at the pre-job conference. The plan shall show all measures to include types of signs and barricades and their placement. The contractor shall designate an employee qualified in construction traffic control to be

responsible for implementing, maintaining, inspecting and altering, as necessary, all traffic control measures for construction. A night time telephone number shall be provided. For planning purposes, some of the required measures needed are: road closed and detour signing (see figure 6-2 of the Manual on Uniform Traffic Control Devices), reduced speed signing, wide load restrictions and all striping to include edge lines and the necessary existing striping removal.

The contractor shall install and maintain deceleration sand berms (approximately five feet high and twenty-eight feet wide) on Baseline Road in the path of through traffic prior to bridge excavation or construction. Sand berms shall remain until road is open to traffic construction presents less of a hazard than the berms.

The contractor shall install and maintain deceleration sand berms (approximately five feet high and ten feet wide) along with two type three barricades on the four corners of the detour bridge in front of the bridge rail buffer end section. Access to the canal road around the berms shall be provided by the contractor if required by RWCD.

All necessary signs and barricades shall remain three working days beyond the acceptance of the project by the District.

CONTRACT TIME: Add the following: "If the contract is awarded on the ALTERNATE BID, the total time allowed for completion of all work on the project shall be one hundred twenty (120) calendar days after the date of Notice to Proceed."

LIQUIDATED DAMAGES:

The amount of \$350.00 per calendar day or the actual costs incurred by the District for Engineering and Inspection Services, whichever is less, will be added to the Daily Charges as indicated by TABLE 108 - LIQUIDATED DAMAGES and will be deducted from monies due or to become due to the Contractor for each and every calendar day that work shall remain uncompleted after the time specified for the completion of the work in the proposal, or as adjusted by the Engineer.

SECTION 350 - REMOVAL OF EXISTING IMPROVEMENTS Add the following paragraph:

"Arrangements for disposal of all waste material shall be the responsibility of the Contractor, except that all usable pipe culvert removed shall be stockpiled within the right-of-way for salvage by the County."

SPECIAL PROVISIONS  
FOR  
BASELINE ROAD BRIDGES  
AT  
RWCD CANAL AND FLOODWAY

CONTRACT NO. FCD 82-30



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.

By: \_\_\_\_\_

Date: \_\_\_\_\_

SUPPLEMENTARY TO MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD  
SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EDITION OF 1979 AND REVISIONS  
AND SUPPLEMENTS THERETO.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CONTRACT NO. FCD 82-30

TABLE CONTENTS:

1. Invitation for Bids
2. Bid Form
3. Construction Special Provisions
4. No Collusion Affidavit
5. Contract
6. Statutory Payment Bond
7. Statutory Performance Bond
8. Certificate of Insurance
9. Drawings: Baseline Road Bridges at RWCD Canal and Floodway  
Sheets 1 through 23 of 23

INVITATION FOR BIDS  
(Construction Contract)

Project: Baseline Road Bridges  
at RWCD Canal and Floodway

Ref. Invitation FCD 82-30  
Date: September 2, 1982  
Issued by: Flood Control District  
Maricopa County

Location: Baseline Road at RWCD  
Canal, 0.7 mi. west of Power Road

SEALED BIDS, IN SINGLE COPY FOR THE WORK DESCRIBED HEREIN WILL BE RECEIVED UNTIL 2:00 p.m. LOCAL TIME AT THE PLACE OF THE BID OPENING, NOVEMBER 4, 1982 IN THE OFFICE OF THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, 3335 WEST DURANGO STREET, PHOENIX, ARIZONA 85009, AND AT THAT TIME PUBLICLY OPENED.

ALTERNATIVE BIDS CONSISTING OF A COMBINED PROPOSAL AS OUTLINED HEREIN AND IN SEPARATE PROPOSAL PAMPHLET IFB FCD 82-31 MAY BE SUBMITTED FOR CONSIDERATION.

BID SECURITY IN AN AMOUNT OF NOT LESS THAN FIVE PERCENT (5%) OF THE TOTAL BID PRICE MUST BE SUBMITTED WITH EACH BID. THE BID SECURITY MAY BE IN THE FORM OF A BID BOND, CASHIERS CHECK, POSTAL MONEY ORDER, OR CASH. THE BID SECURITY WILL BE MADE PAYABLE TO THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY AS A GUARANTEE THAT IF THE WORK IS AWARDED TO THE BIDDER, HE WILL WITHIN TEN (10) DAYS FROM THE DATE OF SUCH AWARD, ENTER INTO PROPER CONTRACT AND BOND CONDITIONS FOR THE FAITHFUL PERFORMANCE OF THE WORK. OTHERWISE, SAID AMOUNT WILL BE FORFEITED TO THE FLOOD CONTROL DISTRICT. BID SECURITY, WILL BE RETURNED AS PRESCRIBED BY MAG 103.

THE SUCCESSFUL BIDDER SHALL BE REQUIRED TO FURNISH PERFORMANCE AND PAYMENT BONDS IN PENAL SUMS NOT LESS THAN ONE HUNDRED PERCENT (100%) RESPECTIVELY, OF THE ORIGINAL AMOUNT OF THE CONTRACT.

DESCRIPTION OF WORK:

Construction of concrete bridges at the RWCD canal and RWCD Floodway locations, detour road and temporary bridge, approaches, and miscellaneous related items.

THE WORK SHALL COMMENCE WITHIN SEVEN (7) CALENDAR DAYS AND BE COMPLETED WITHIN ONE HUNDRED TWENTY (120) CALENDAR DAYS AFTER RECEIPT OF THE NOTICE TO PROCEED.

ALTERNATE BID. THE WORK SHALL BE COMPLETED WITHIN ONE HUNDRED TWENTY (120) CALENDAR DAYS AFTER RECEIPT OF THE NOTICE TO PROCEED.

NOTICE: THE BID SCHEDULE, SPECIAL PROVISIONS, INSTRUCTIONS TO BIDDERS, UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION (MAG) AND REVISIONS AND SUPPLEMENTS THERETO, DRAWINGS LISTED UNDER THE CONTENTS, WILL BE INCORPORATED IN AND BECOME A PART OF THE RESULTANT CONTRACT.

CHERIE PENNINGTON, CLERK  
BOARD OF DIRECTORS  
FLOOD CONTROL DISTRICT OF  
MARICOPA COUNTY

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
INVITATION FOR BIDS, FCD  
INSTRUCTIONS TO BIDDERS

1. Explanation to Bidders. Any explanations desired by the bidder, questions, or items for clarification regarding the meaning or interpretation of the invitation for bids, drawings, specification, etc., may be addressed to the Chief Engineer and General Manager, preferably in writing, prior to the pre-bid conference. Any answers, interpretations or clarifications affecting the cost will be addressed to all bidders in an addendum to the invitation. The receipt of an addendum by the bidder must be acknowledged in the space provided on the bid form or by letter or telegram received before the time set for the bid opening. Oral explanations or instructions given before the award of the contract will not be binding.
2. Conditions Affecting the Work. Bidders should visit the site and take such other steps as may be reasonably necessary to ascertain the nature of the work, the general and local conditions which can affect the work and the cost thereof. Failure to do so will not relieve bidders from responsibility for estimating properly the difficulty or cost of successfully performing the work. (See MAG 102.4)
3. Bidder's Qualifications. Before a bid is considered for award, a bidder may be requested by the Chief Engineer and General Manager of the Flood Control District to submit a statement regarding his previous experience in performing comparable work, his business and technical organization, financial resources, and plant available to be used in performing the work.
4. Bid Guarantee. Where a bid guarantee is required by the invitation for bids, failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.

If the successful bidder, upon acceptance of his bid by the Flood Control District with the period specified herein for acceptance (sixty days if no period is specified) fails to execute such further contractual documents, if any, and give such bond(s) as may be required by the terms of the bid as accepted within the time specified (ten days if no period is specified) after receipt of the forms by him, his contract may be terminated for default. In such event he shall be liable for any cost of procuring the work which exceeds the amount of his bid, and the bid guarantee shall be available toward offsetting such difference.

5. Preparation of Bids. Bids shall be submitted on the forms furnished, or copies thereof, and must be manually signed. If erasures or other changes appear on the forms, each erasure or change must be initialed by the person signing the bid. Unless specifically authorized in the invitation for bids, telegraphic bids will not be considered.

No bid will be considered unless all items in the bid schedule are priced. In case of an error in the extension of price, the unit price shall govern. The quantities listed on the bid schedule on which unit prices are requested are estimates only.

Unless called for, alternate bids will not be considered.

Modifications of bids already submitted will be considered if received at the office designated in the invitation for bids by the time set for opening bids.

As an inducement for a reduction in the amount of the bid(s) submitted, an alternate bid may be submitted, consisting of a combined proposal for the construction of the Baseline Road Bridges at RWCD Canal and Floodway (IFB FCD 82-30) and the (IFB FCD 82-31) Elliot Road Bridges at RWCD Canal and Floodway.

Bidders shall acknowledge the receipt of and agree that the proposal submitted is based on any Addenda issued with or subsequent to the proposal pamphlet. Acknowledgement shall be indicated on the last page of the Bidding Schedule.

6. Submission of Bids. Bids must be sealed, addressed to the Chief Engineer and General Manager, Flood Control District of Maricopa County, 3335 West Durango, Phoenix, Arizona, 85009, and marked to identify the bid to the referenced Contract FCD Number. Failure to appropriately identify the bid may result in a premature opening of, or a failure to open, such bid. The name of the bidder shall be on the outside of the envelope. (See MAG 102.9.)
7. Withdrawal of Bids or Modifications. Bids may be withdrawn by written request received from the bidder prior to the time set for the opening of bids.
8. Public Opening of Bids. Bids will be publicly opened at the time and place set for the opening in the invitation for bids. Their content will be made public for the information of bidders and others interested who may be present either in person or by representative.
9. The contract(s) will be awarded either to the separate low bidder(s) on each bridge contract or to the low and/or best responsible bidder of the ALTERNATIVE (Combined bridge contractes).
10. Specifications. Specifications referred to herein shall include all revisions and amendments in effect on the date of issuance of the invitation for bids. These instructions, Special Instructions to Bidders, and the herein contained Construction Special Provisions supplement the Uniform Standard Specifications herein referred to by "MAG" section number of paragraph number; however, in case of conflict, these instructions and Special Provisions supersede the Uniform Standard Specifications (MAG).

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
 INVITATION FOR BIDS, FCD  
 SPECIAL INSTRUCTIONS TO BIDDERS

Location of the Work

Baseline Road at the RWCD Canal, 0.7 miles west of Power Road, Maricopa County, Arizona.

Contract Plans, Special Provisions and Contract Documents: Plans, Special Provisions, and forms for proposal, Bidding Schedule, Contract Agreement and Performance Bond may be obtained from the Flood Control District of Maricopa County, 3335 West Durango Street, Phoenix, Arizona, upon payment of \$15.00 by check payable to the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. This payment will not be refunded. The plans sheets may be purchased separately for a fee of \$10.00, not refundable,

APPROXIMATE QUANTITY (MAJOR ITEMS)

<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
5,400	C.Y.	Channel Excavation
600	M.Gal.	Watering
1,023	Ton	Aggregate Base
1,815	Ton	Select Material
603	Ton	Asphaltic Concrete
829	L.Ft.	Drilled Shaft Foundations
1,090	L.Ft.	Concrete Piles - Furnished
1,090	L.Ft.	Concrete Piles - Driven
1,519	C.Y.	Class A Concrete
309,000	Lbs.	Reinforcing Steel

and such other pertinent items as are necessary for the completion of the project as shown on the plans or as called for in the Special Provisions or in the Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction.

CHERIE PENNINGTON, CLERK  
 BOARD OF DIRECTORS  
 FLOOD CONTROL DISTRICT OF  
 MARICOPA COUNTY



hereinafter proposed and to accept, as full compensation therefor, the sum of various products obtained by multiplying each unit price, herein bid for work or materials, by the quantity thereof actually incorporated in the completed project, as determined by the Chief Engineer and General Manager, Flood Control District of Maricopa County.

The Undersigned understands that the quantities mentioned herein are approximate and are subject to increase or decrease and hereby proposes to perform all quantities of work, as either increased or decreased, in accordance with the provisions of the Specifications, at the unit price bid in the Bidding Schedule.

Furthermore, in consideration of the proximity of the projects and the reduced mobilization and overhead costs realized therefrom, and as an inducement for the award of a single contract for the construction of both the Baseline Road Bridges at the RWCD Canal and Floodway (IFB FCD 82-30) and the Elliot Road Bridges at the RWCD Canal and Floodway (IFB FCD 82-31), the total alternate bid contract amount of this proposal is (in words) (Alternate A-1)

\_\_\_\_\_ and  
100/dollars, (in figures) \_\_\_\_\_, \_\_\_\_\_:  
(Alternate B-1)

\_\_\_\_\_ and  
100/dollars, (in figures) \_\_\_\_\_,  
This amount being the sum total of the extended amount for each pay item on the ALTERNATE BIDDING SCHEDULE.

## BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal &amp; Floodway

Contract: FCD 82-30

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
215	5,400	C.Y.	Channel Excavation			
225	600	M.Gal.	Watering			
301	0.33	Mile	Subgrade Preparation			
310-1	1,023	Ton	Aggregate Base			
310-2	1,815	Ton	Select Material			
315	10	Ton	Bituminous Prime Coat			
321-C 3/4	603	Ton	Asphaltic Concrete			
350	1	L.S.	Removal of Existing Improvements			
415	57	L.F.	Bridge Guard Rail			
420	236	L.F.	Chain Link Fence			
501-1	1,090	L.F.	Concrete Piles-Furnished			

## BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal &amp; Floodway

Contract: FCD 82-30

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
501-2	1,090	L.F.	Concrete Piles-Driven			
502	829	L.F.	Drilled Shaft Foundations			
505-1	1,519	C.Y.	Class A Concrete			
505-2	192	C.Y.	Class B Concrete			
505-3	309,000	lbs.	Reinforcing Steel			
505-4	1	ea.	Junction Box, Special Detail			
506	20	ea.	Precast Concrete Beams			
515	3	ea.	Deck Units			
520	17	L.F.	Pipe Railing			
525	5,000	S.F.	Canal Lining			
621	144	L.F.	48" Corrugated Metal Pipe			

BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal & Floodway

Contract: FCD 82-30

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
622-1	25	L.F.	42" Pipe Culvert			
622-2	31	L.F.	36" Pipe Culvert			
622-3	194	L.F.	48" Pipe Culvert			
623	73	S.F.	Headwall, MAG 501-1			
625	1	Ea.	Manhole, MAG 522			
634	1,017	L.F.	Tailwater Ditch			
635	24	L.F.	Concrete Lined Ditch			

The Bidder hereby acknowledges receipt of and agrees his proposal is based on the following Addenda

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Total \_\_\_\_\_

AT R.W.C.D. CANAL AND FLOODWAY

Contract: FCD 82-31  
FCD 82-30

ALTERNATE  
BIDDING SCHEDULE SUMMARY

Alternate A-1 Concrete Beam Canal Bridge

Baseline Road Bridges \_\_\_\_\_

Elliot Road Floodway Bridge,  
Approaches and Miscellaneous \_\_\_\_\_

Elliot Road Canal Bridge and Control Structure \_\_\_\_\_

Total \_\_\_\_\_

Alternate B-1 Steel Beam Canal Bridge

Baseline Road Bridges \_\_\_\_\_

Elliot Road Floodway Bridge,  
Approaches and Miscellaneous \_\_\_\_\_

Elliot Road Canal Bridge and Control Structure \_\_\_\_\_

Total \_\_\_\_\_

The Bidder hereby acknowledges receipt of and agrees his proposal is based  
on the following Addenda \_\_\_\_\_

Elliot Road Bridges  
at R.W.C.D. Canal and Floodway

ALTERNATE  
BIDDING SCHEDULE

Page 7 of 15

Project: FLOODWAY BRIDGE, APPROACHES AND MISCELLANEOUS

Contract: FCD 82-31

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
215	4600	C.Y.	Channel Excavation			
225	410	M.Gal.	Watering			
301	1450	S.Y.	Subgrade Preparation			
310-1	480	Ton	Select Material			
310-2	510	Ton	Aggregate Base			
315	1.5	Ton	Bituminous Prime Coat			
321-C-3/4	170	Ton	Asphalt Concrete			
350	1	L.S.	Removal of Existing Improvements			
420	210	L.F.	Chain Link Fence			
502	145	L.F.	Drilled Shaft Foundations			
505-1	1033	C.Y.	Class A Concrete			

Elliot Road Bridges  
 at R.W.C.D. Canal and Floodway

ALTERNATE  
 BIDDING SCHEDULE

Project: Floodway bridge, approaches and miscellaneous  
 Contract: FCD 82-31

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
505-2	98	C.Y.	Class B Concrete			
505-3	251,100	Lb.	Reinforcing Steel			
505-4	1	Ea.	Outlet Structure MAG 501-4			
525	2400	S.F.	Canal Lining			
622-1	39	L.F.	24" Pipe Culvert			
622-2	45	L.F.	36" Pipe Culvert			
622-3	170	L.F.	48" Pipe Culvert			
635	1050	L.F.	Tailwater Ditch			

Sub-Total  
 Floodway Bridge  
 Approaches and Miscellaneous

Sub-total to be included on ALTERNATE BIDDING SCHEDULE SUMMARY for Alternate A-1 and Alternate B-1 bids.

Elliot Road Bridges

at R.W.C.D. Canal and Floodway

Project:

Contract: FCD 82-31

ALTERNATE  
BIDDING SCHEDULE  
Alternate A-1- Concrete Beam  
Canal Bridge and Control Structure

Page 9 of 15

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
420	29	L.F.	Chain Link Fence			
501-1	688	L.F.	Furnishing Concrete Piles			
501-2	676	L.F.	Driving Concrete Piles			
505-1	85	C.Y.	Class A Concrete			
505-2	56	C.Y.	Class B Concrete			
505-3	14,300	Lb.	Reinforcing Steel			
506	16	Ea.	Precast Concrete Beams			
520	17	L.F.	Pipe Railing			

Sub-total  
Alternate A-1  
Concrete Beam Canal Bridge \_\_\_\_\_

Elliot Road Bridges  
at R.W.C.D. Canal and Floodway

Page 10 of 15

ALTERNATE  
BIDDING SCHEDULE

Project:

Alternate B-1 - Steel Beam Canal Bridge  
and Control Structure

Contract: FCD 82-31

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
420	30	L.F.	Chain Link Fence			
501-2	656	L.F.	Furnishing Concrete Piles			
501-3	654	L.F.	Driving Concrete Piles			
505-1	144	C.Y.	Class A Concrete			
505-2	52	C.Y.	Class B Concrete			
505-3	23,690	Lb.	Reinforcing Steel			
515	28,850	Lb.	Structural Steel			
520	17	L.F.	Pipe Railing			

Sub-total  
Alternate B-1  
Steel Beam Canal Bridge \_\_\_\_\_

ALTERNATE  
BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal & Floodway

Contract: FCD 82-30

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
215	5,400	C.Y.	Channel Excavation			
225	600	M.Gal.	Watering			
301	0.33	Mile	Subgrade Preparation			
310-1	1,023	Ton	Aggregate Base			
310-2	1,815	Ton	Select Material			
315	10	Ton	Bituminous Prime Coat			
321-C 3/4	603	Ton	Asphaltic Concrete			
350	1	L.S.	Removal of Existing Improvements			
415	57	L.F.	Bridge Guard Rail			
420	236	L.F.	Chain Link Fence			
501-1	1,090	L.F.	Concrete Piles-Furnished			

ALTERNATE  
BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal & Floodway

Contract: FCD 82-30

Item no.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
501-2	1,090	L.F.	Concrete Piles-Driven			
502	829	L.F.	Drilled Shaft Foundations			
505-1	1,519	C.Y.	Class A Concrete			
505-2	192	C.Y.	Class B Concrete			
505-3	309,000	lbs.	Reinforcing Steel			
505-4	1	ea.	Junction Box, Special Detail			
506	20	ea.	Precast Concrete Beams			
515	3	ea.	Deck Units			
520	17	L.F.	Pipe Railing			
525	5,000	S.F.	Canal Lining			
621	144	L.F.	48" Corrugated Metal Pipe			

ALTERNATE  
BIDDING SCHEDULE

Project: Baseline Road Bridges at RWCD Canal & Floodway

Contract: FCD 82-30

Item No.	Approximate Quantity	Unit	Description	Unit Cost (in writing) and /100 dollars	Unit Cost	Extended Amount
622-1	25	L.F.	42" Pipe Culvert			
622-2	31	L.F.	36" Pipe Culvert			
622-3	194	L.F.	48" Pipe Culvert			
623	73	S.F.	Headwall, MAG 501-1			
625	1	Ea.	Manhole, MAG 522			
634	1,017	L.F.	Tailwater Ditch			
635	24	L.F.	Concrete Lined Ditch			

The bidder hereby acknowledges receipt of and agrees to the conditions set forth on the following schedule.

Total \_\_\_\_\_

Total to be included on ALTERNATE BIDDING SCHEDULE SUMMARY for Alternate A-1 and Alternate B-1 bids.

The Undersigned further proposes to execute the Contract Agreement and furnish satisfactory Bonds within ten (10) days from the date of award, time being of the essence. The Undersigned further proposes to begin the work as specified in the Contract attached hereto, and to complete the work within the time limits as specified in the Special Provisions and maintain at all times a Contract Bond, approved by the Board of Directors, in an amount equal to one hundred percent (100%) of the total bid. This bond shall serve not only to guarantee the completion of the work on the part of the Undersigned, but also to guarantee the excellence of both workmanship and material and the payment of all obligations incurred, said Bond to be in full force and effect until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions are fulfilled.

A Proposal guaranty in the amount and character named in the Invitation for Bids is enclosed amounting to not less than five percent (5%) of the total bid, which Proposal guaranty is submitted as a guaranty of the good faith of the Bidder and that the Bidder will enter into written contract, as provided, to do the work, if successful in securing the award thereof; and it is hereby agreed that if at any time other than as provided in the Proposal requirements and conditions the Undersigned should withdraw this Proposal, or if the Proposal is accepted and there should be failure on the part of the Undersigned to execute the Contract and furnish satisfactory Bond as herein provided, the Flood Control District of Maricopa County in either of such events, shall be entitled and is hereby given the right to retain the said Proposal guaranty as liquidated damages.

Date: \_\_\_\_\_, 19\_\_\_\_.

IF BY AN INDIVIDUAL:

\_\_\_\_\_  
(Name) (Address)

IF BY A FIRM OR PARTNERSHIP:

\_\_\_\_\_  
(Firm Name) (Firm Address)

By: \_\_\_\_\_

\*Name and Address of Each Member:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_, 19\_\_\_\_.

IF BY A CORPORATION:

\_\_\_\_\_  
(Corporate Name) (Corporation Address)

By: \_\_\_\_\_

\*\*Incorporated under the Laws of \_\_\_\_\_.

Names and Addresses of Officers:

\_\_\_\_\_  
(President) (Address)

\_\_\_\_\_  
(Secretary) (Address)

\_\_\_\_\_  
(Treasurer) (Address)

\*The name and post office address of each member of the firm or partnership must be shown.

\*\*The name of the State under which the laws of the Corporation was chartered and names, title, and business address of the President, Secretary, and Treasurer must be shown.

CONSTRUCTION SPECIAL PROVISIONS  
FOR  
BASELINE ROAD BRIDGES  
AT RWCD CANAL AND FLOODWAY  
CONTRACT FCD 82-30

LOCATION OF THE WORK: This project is located on Baseline Road at the RWCD\* Canal, 0.7 miles west of Power Road.

PROPOSED WORK: The work consists of constructing concrete bridges, detour road and bridge, approaches and other miscellaneous items of work required for the completion of the project.

SPECIFICATIONS: The work embraced herein and as shown on the plans for the construction of this project shall be done in accordance with the Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction dated 1979 and the current revisions thereto together with the Maricopa County Highway Department Supplement to the Uniform Standard Specifications adopted August 3, 1981 and October 19, 1981 and the Construction Special Provisions contained herein.

CONTRACT TIME: The Contractor shall complete all canal removals, canal bridge substructure, detour bridge, irrigation and canal work during the period of low flow in the canal and shall complete all work on the project within one hundred twenty (120) calendar days after the date of Notice to Proceed.

PROGRESS SCHEDULE: The Contractor shall submit his proposed work progress schedule to the Engineer for approval before starting the work.

ITEM COMMENTS: The herein contained Construction Special Provisions supplement the Uniform Standard Specifications and the Maricopa County Highway Department Supplement to the Uniform Standard Specifications; however, in case of conflict these Special Provisions supersede the Uniform Standard Specifications and the Maricopa County Supplement.

MATERIAL: Select material, aggregate base and mineral aggregate shall be obtained from commercial sources. The Contractor shall pay all royalties or any other charges or expenses incurred in connection with the securing and hauling of the material. The Contractor will be required to furnish the Engineer with a list of his proposed commercial sources prior to use, and shall present satisfactory evidence that the material produced from any commercial source will meet the specifications as noted and these Special Provisions for such material.

SOIL BORINGS: Soil boring information is available for viewing at the Flood Control District of Maricopa County.

WORK STANDARDS: The Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor Regulations (29 CFS Part 5).

WATER, LIGHT, POWER, HEAT, TELEPHONE: All water for construction purposes, drinking water, lighting, temporary electric power, heat and telephone service shall be arranged for and provided for the requirements of the work by the Contractor at his expense.

PROGRESS SCHEDULE: The Contractor shall submit his proposed work progress schedule to the Chief Engineer and General Manager for approval before starting to work.

SUBSECTION 101.2 - DEFINITIONS AND TERMS: Change the definition of Budget Project to read as follows: A project financed by funds set aside in the annual budget or otherwise approved by the Board of Directors of the Flood Control District of Maricopa County.

Change the definition of Engineer to read as follows: The Chief Engineer and General Manager of the Flood Control District of Maricopa County acting directly or through his duly authorized representative.

Change the definition of Owner to read as follows: The Flood Control District of Maricopa County, acting through its legally constituted officials, officers or employees.

SECTION 102 - ADDENDUMS & SUBMISSION OF BIDDING SCHEDULE: It shall be the responsibility of prospective bidders to determine, prior to submission of a bid, if any addendums have been issued. This may be accomplished by calling 602-262-1501. Any addendum issued, if not already bound into the Special Provisions, must be included as a part of the Special Provisions and any quantities on the Bidding Schedule requiring change shall be adjusted by pen and ink, to the new figure.

Bids which do not include appropriate addendums and show appropriate changes to the Bidding Schedule shall be invalid.

SECTION 102.5 - PREPARATION OF PROPOSAL: The bidder's Arizona State Contractor's License number and classification need not be shown on the proposal. The possession of such a license is no longer a bidding requirement; however, the Contractor may be required to provide certification of prior satisfactory completion for similar construction.

SECTION 103.6 CONTRACTOR'S INSURANCE: Concurrently with the execution of the contract the contractor shall furnish a Certificate of Insurance. The types of insurance and the limits of liability shall be as indicated thereon, i.e.

\$ 500,000	bodily injury per person
1,000,000	bodily injury each occurrence
500,000	property damage

SECTION 105.2 - PLANS AND SHOP DRAWINGS: Shop drawings shall be submitted as follows:

Initial submittal for review and/or approval - Three (3) sets of plans of which one (1) will be returned to the Contractor.

Final submittal for approval - Five (5) sets of plans of which two (2) sets will be returned to the Contractor.

SECTION 105.6 - COOPERATION WITH UTILITIES: When the Contractor's operations result in damage to any utility, the location of which has been brought to his attention, he shall assume full responsibility for such damage.

The following telephone numbers as indicated should put the Contractor in contact with the proper personnel:

Mountain Bell Telephone Company.....	263-3219
Salt River Project.....	273-2201
Arizona Public Service.....	271-7014
Location Staking (A.P.S., Mtn. Bell, S.R.P.)....Blue Stake.....	263-1100
Roosevelt Water Conservation District.....	963-3414
City of Mesa.....	834-2516
Town of Gilbert.....	892-0956
Maricopa County Highway Department .....	262-3631

See Exhibit A that is attached to these Special Provisions.

SUBSECTION 108.7 - DETERMINATION AND EXTENSION OF CONTRACT TIME:

The contractor shall be responsible for having taken steps reasonably necessary to ascertain the nature and location of the work and the conditions which can affect the work and the cost thereof. Failure to do so will not relieve bidders from responsibility for successfully performing the work without additional expense to the Flood Control District. The Flood Control District assumes no responsibility for understandings, representations, or predictions concerning conditions of the work area during the period of the contract.

If performance of all or any part of the work is suspended, delayed, or interrupted by weather conditions or by a rise in the water level causing unstable ground conditions, an extension of the period for contract performance equal to the lost days will be granted by the Flood Control District. No claim for additional costs incurred because of such delay will be allowed.

If the contractor finds it impossible for reasons beyond his control to complete the work within the contract time as specified or as extended in accordance with the provisions of this subsection, he may, at any time prior to the expiration of the contract time as extended, make a written request to the Engineer for an extension of time setting forth therein the reasons which he believes will justify the granting of his request. If the Engineer determines that the contractor has proceeded with such diligence as would normally have ensured completion within the contract time, and that the reasons stated to justify a time extension are valid, he may extend the time for completion in such amount as conditions justify. The extended time for completion shall then be in full force and effect, the same as though it were the original time for completion.

SECTION 215 - CHANNEL EXCAVATION: The work under this section consists of the excavation for the proposed floodway channel in accordance with the plans and Section 215 of the Uniform Standard Specifications.

The excavated material shall be used to fill the existing floodway channel and bridge area to the limits shown on the plans.

Volumes will be computed by the average end area method.

Payment for all work under this section will be made at the unit price bid per cubic yard for ITEM NO. 215 - CHANNEL EXCAVATION.

SECTION 301 - SUBGRADE PREPARATION: The work under this section consists of the preparation of the subgrades for the Detour Road and the Bridge Approaches in accordance with the plans and Section 301 of the Uniform Standard Specifications.

Direct payment will not be made for excavation, drainage excavation, structural excavation, waste, haul, overhaul, clearing, rolling or for the disposal of waste materials.

The earthwork quantities shown on the plans are approximate and were determined during the design process. They are included to aid the bidder in formulating his bid.

SECTION 310 - UNTREATED BASE: Select Material and Aggregate Base shall conform to the requirements of Section 702 of the Uniform Standard Specifications. Select Material and Aggregate Base shall be crushed in accordance with Section 702.2. Select Material shall be Type "A."

The Contractor will be required to furnish the Engineer certified weight tickets covering all of the Select Material and Aggregate Base placed on the project. Final pay quantities will be based upon the scale tickets accepted by the Engineer.

SECTION 315 - BITUMINOUS PRIME COAT: The bituminous materials shall be Grade MC-70 or MC250 liquid asphalt as determined by the Engineer. Prime coat shall be applied to the total width of the Aggregate Base Material at the rate of 0.40 gallon per square yard unless otherwise specified by the Engineer.

SECTION 321 - ASPHALT CONCRETE: The bituminous material to be used shall be AR-4000 Paving Asphalt and shall comply with Sections 710 and 711 of the Uniform Standard Specifications or AC-30 and shall comply with ADOT Table 705-1 as modified on October 16, 1981.

The mineral aggregate shall meet the grading requirements within the range of the specified tolerances for Mix-Designation C-3/4 in accordance with Section 710 of the Uniform Standard Specifications and Maricopa County Highway Department Supplement to the Uniform Standard Specifications.

The work shall fully comply with Section 321 except that no mineral filler or blending sand will be required.

In addition to pugmill type mixing plants, Drum Dryer Mixers will be allowed in accordance with Standard Specifications 710.8. The moisture content of the bituminous mixture immediately behind the paver shall not exceed three percent. If a drum dryer is used, the type of oil shall be AR-8000 or AC-30 as specified above.

The proper proportioning of the material at the cold feed shall be determined by the Contractor and approved by the Engineer prior to the production of asphalt concrete. Production shall not commence until calibration tests indicate that an acceptable product can be obtained.

The correct proportions of each aggregate size introduced into the mixer shall be drawn from the storage bins by an approved type of continuous feeder which shall supply the correct amount of aggregate in proportion to the bituminous material and shall be so arranged that the proportion of each aggregate size can be separately adjusted. The continuous feeder for the aggregate may be mechanically or electrically activated.

The plant shall be equipped with a sampling device to take representative composite samples of the cold feed. If tests indicate non-compliance with specifications, operation shall cease until proper corrections have been made.

The production of the plant shall be governed by the rate required to obtain a thorough and uniform mixture of the materials. Mixing shall continue until the uniformity of coating, when tested in accordance with the requirements of AASHTO T 195, is at least 95 percent.

**SECTION 350 - REMOVAL OF EXISTING IMPROVEMENTS:** The work under this section consists of the removal and disposal of canal bridge, floodway box culvert, canal control structure, irrigation facilities, existing pavement, detour road and any obstacle to construction, whether shown on the plans or not, unless specifically called out on the plans to be removed or relocated by other agencies.

If a Maricopa County landfill is selected for disposition of road construction waste and/or debris, a Maricopa County Landfill Use Permit will be required. Application for permit can be made at the Maricopa County Landfill Office, located at 3325 West Durango Street, Phoenix, Arizona 85009 (Telephone 269-2661). Charges will be levied on a volume basis for each load delivered to the landfill in accordance with the current fee schedule (see attachment). The nearest County landfill to this project is Queen Creek located at Hawes Road, 0.5 miles south of Chandler Heights Road.

Removal of the canal control structure shall be coordinated with the RWCD to determine the parts that they wish to salvage. Relocation of the existing chain link fence at east end of project is included in this section.

**SECTION 415 - BRIDGE GUARD RAIL:** The work under this section consists of constructing steel beam guard rail on the Detour Bridge in accordance with the plans and Section 415 of the Uniform Standard Specifications, and MAG detail sheets 135-1 thru 135-2.

**SECTION 420 - CHAIN LINK FENCE:** The work under this section consists of constructing chain link fence on the bridge decks in accordance with the plans and Section 420 of the Uniform Standard Specifications.

**SECTION 501 - CONCRETE PILE FOUNDATIONS:** The work under this section consists of constructing the concrete piles for the canal and detour road bridges in accordance with the plans and the applicable provisions of Section 501 of the Uniform Standard Specifications.

Concrete and reinforcing steel will be paid for separately as indicated in Section 505 - Concrete Structures.

Payment for all other work under this section will be made at the unit price bid per linear foot for ITEM NO. 501-1-CONCRETE PILES FURNISHED, and ITEM NO. 501-2 CONCRETE PILES-DRIVEN.

## SECTION 502 - DRILLED SHAFT FOUNDATIONS:

Description: This item shall govern for the construction of foundations consisting of "reinforced concrete drilled shafts." Concrete shafts shall be placed in a drilled excavation. Foundations shall be constructed in accordance with this item and in conformance with the details and dimensions shown on the plans.

Materials. All concrete and materials shall be in accordance with the requirements of Section 505 of the Standard Specifications and the requirements herein. Concrete shall be Class "A," unless otherwise shown on the plans. The maximum size coarse aggregate shall be 1-1/2 inches for cased shafts. A retarder or water reducing agent will be required in all concrete when casting is used. Reinforcing steel shall conform to the requirements of Section 727 of the Standard Specification. The sizes and dimensions shall be as shown on the plans.

### Construction Methods:

Excavation: The Contractor shall perform the excavation required for the shafts, through whatever materials encountered, to the dimensions and elevations shown on the plans or required by the site conditions.

Shaft alignment shall be within a tolerance of one inch per ten feet of depth. The axis of the shaft at the top elevation shall be within three inches of its plan location.

The plans indicate the expected depths and elevations where satisfactory bearing material will be encountered. This information will be used as a basis for the contract. If satisfactory material is not encountered at plan elevation, the footing may be raised or lowered as determined by the Engineer. Alteration of plan depth shall be made to satisfactorily comply with the design requirements. Casing will be required when necessary to prevent caving of the material or when necessary to exclude seepage water. Casing shall be metal of ample strength to withstand handling stresses, the pressure of concrete and of the surrounding earth or backfill materials, and shall be watertight. The outside diameter of casing shall not be less than the specified size of shaft; otherwise, the size of casing and the size of drilled excavation in which it is to be placed will be left to the discretion of the Contractor, except as noted below. No extra compensation will be allowed for concrete required to fill an oversize casing or oversize excavation.

Where caving conditions and/or excess groundwater is encountered, no further drilling will be allowed until a construction method is employed which will prevent excessive caving that will make the excavation appreciably larger than the size of casing to be used. Drilling in a mud slurry, or other method which will control the size of excavation, will be required.

If the excavation of the top of shaft is below ground level at the time of concrete placement, a casing from ground elevation to a point below the top of the shaft will be required to control caving of any material into the freshly placed concrete.

Where casing is not required, any excavation for the shafts beyond the lines required by the plans shall be filled with Class "A" concrete at the Contractor's expense. Where casings are used, the Contractor will be permitted to backfill around the upper portions of the casing with pea gravel or other granular material, but space shall be provided to allow for escape of muck, slurry or water displaced by the concrete.

When casing is used, it shall be smooth and well oiled and shall extend approximately to the top of the shaft.

Under normal operations, the removal of the casing shall not be started, until all concrete placement is completed in the shaft. Movement of the casing for short pulls of a few inches, rotating, exerting downward pressure and tapping it to facilitate extraction will be permitted. When unusual conditions warrant, the casing may be pulled in partial stages. A sufficient head of concrete shall be maintained above the bottom of the casing to overcome hydrostatic pressure. Casing extraction shall be at a slow, uniform rate with the pull in line with the center of the shaft.

The elevation of the top of the steel cage shall be carefully checked before and after casing extraction. Generally, any upward movement of the steel not exceeding 2 inches, or any downward movement thereof not exceeding 6 inches per 20 feet of shaft length will be acceptable. Any upward movement of the concrete or displacement of the steel beyond the above limits will be cause for rejection.

The minimum length of steel required for lap with column steel shall be maintained. Dowel bars may be used if the proper lap length is provided both into the shaft and into the column.

Material excavated from shafts, including drilling mud, and not used in the backfill around the completed bents or piers shall be disposed of as directed by the Engineer.

At the time concrete is placed, the excavation shall be free from accumulated seepage water. All loose material shall be removed from the bottom of the excavation prior to placing concrete.

The Contractor shall provide suitable access and lighting for proper inspection of the completed excavation, to check the dimensions and alignment of shafts.

Any required lighting shall be electric. Any mechanical equipment used within the excavation shall be operated by air or electricity. The use of gasoline driven engines within the excavation for pumping or drilling will not be permitted.

**Reinforcing Steel:** The cage of reinforcing steel, consisting of longitudinal bars and lateral ties shall be completely assembled and placed as unit immediately prior to concrete placement.

If the shaft is lengthened, and the plans require full depth reinforcement, the longitudinal bars required in the upper portion of the shaft shall be extended to the bottom, with proper lateral reinforcement. These bars may be lap spliced. Any splices required shall be approved by the Engineer.

The cage shall be supported from the top by some positive method, to minimize its slumping downward during concrete placement and/or extraction of the casing. The support shall be concentric with the cage to prevent racking and distortion of the steel. A minimum of one half of the vertical bars shall be supported.

In uncased shafts, concrete spacer blocks, or steel chairs shall be used at sufficient intervals to insure concentric spacing for the entire length of the cage. In cased shafts, concrete spacer blocks shall not be used. Metal "chair" type spacers or bent pieces of steel bars shall be placed at sufficient intervals around the steel cage to insure concentric spacing inside the casing.

Concrete: The work shall be performed in accordance with the provisions of the Standard Specifications and the requirements herein.

Concrete shall be placed as soon as possible after all excavation is complete and reinforcing steel placed and shall be of such workability that vibrating or rodding will not be required.

Concrete placing shall be continuous in the shaft to the construction joint indicated on the plans.

Concrete shall be placed through a suitable tube or tremie to prevent segregation of materials. The tube or tremie shall be made in sections to provide proper discharge and permit raising it as the placement progresses. A nonjointed pipe may be used if sufficient openings of the proper size are provided to allow for the flow of concrete into the shaft.

The elapsed time from the beginning of concrete placement in the cased portion of the shaft, until extraction of the casing is begun, shall not exceed one hour.

Where a cap or tie beam is required to be placed monolithically with the shaft, a time interval will be allowed for placing the required form and reinforcing after casing removal.

A riser block of equal diameter as the column end or a maximum height of 6 inches may be cast at the top of the completed shaft.

The top surface shall be cured and any construction joint area shall be treated as prescribed in the Standard Specification, Section 505.

Measurement: Acceptable drilled shafts (of the specified diameter) complete in place, will be measured by the linear foot. Shafts will be measured from elevations or dimension indicated on the plans, unless the Engineer directs otherwise to meet unusual conditions.

Payment: Drilled shafts will be paid for at the unit price bid per linear foot of drilled shaft of the specified diameter for ITEM NO. 502 - DRILLED SHAFT FOUNDATIONS. Class "A" Concrete and Reinforcing Steel will be included in and paid for as items under Section 505.- CONCRETE STRUCTURES.

SECTION 505 - CONCRETE STRUCTURES: The work under this section consists of constructing in place the concrete portions of the bridges and approach slabs, canal control structure and junction box in accordance with the plans and Section 505 of the Uniform Standard Specifications. Other methods as described in 505.8 will be allowed in place of water curing.

The use of fly ash will be permitted in all concrete mixes, in accordance with subsection 725.21.

Payment for all work under this section will be made at the unit price bid per cubic yard for ITEM NO. 501-1 CLASS "A" CONCRETE and ITEM NO. 505-2 CLASS "B" CONCRETE, at the unit price bid per pound for ITEM NO. 505-3 REINFORCING STEEL, and at the unit price bid for ITEM NO. 505-4 JUNCTION BOX, SPECIAL DETAIL.

Concrete, reinforcing steel and expanded metal cover are incidental to ITEM 505-4 JUNCTION BOX.

SECTION 506 - PRECAST PRESTRESSED CONCRETE MEMBERS: The work under this section consists of furnishing and placing prestressed concrete beams for the canal bridge in accordance with the plans and Section 506 of the Uniform Standard Specifications.

Payment for all work under this section will be made at the unit price bid for ITEM NO. 506 - PRECAST CONCRETE BEAM, which price shall be full compensation for the item complete in place, including concrete and reinforcing steel.

SECTION 515 - STEEL STRUCTURES: The work under this section consists of placing the steel deck units for the Detour Bridge in accordance with the plans and the applicable provisions of Section 515 of the Uniform Standard Specifications.

The connections shall conform to Section 770 of the Uniform Standard Specifications.

The deck units are stored at the Maricopa County Avondale yard, located on Van Buren Avenue, east of Dysart Road.

The Contractor will select three of the units, rehabilitate and transport them to the project site, erect them and after the detour road is removed, return them to Avondale Yard.

Removal of the concrete pile bents shall be by the Contractor.

Payment for all work under this section will be made at the unit price bid for ITEM NO. 515-DECK UNITS, which price will be full compensation for the work entailed.

SECTION 520 - PIPE RAILING: The work under this section consists of constructing pipe railing on the canal control structure in accordance with the plans and Section 520 of the Uniform Standard Specifications.

SECTION 525 - CANAL LINING: The work under this section consists of replacing the canal lining in accordance with the plans and Section 525 of the Uniform Standard Specifications.

Also included are those areas affected by the Detour Bridge pile bents and bypass pipe.

Canal lining shall be 3" thick, hand placed concrete or 1½" thick, pneumatically placed mortar, both reinforced with wire mesh.

SECTION 622 PIPE CULVERT: The work under this item shall consist of furnishing and placing pipe culvert of the size and at the locations as called for on the plans. Where the bidding schedule calls for the general term pipe culvert, the Contractor, at his option, may furnish Reinforced Concrete Pipe Class III (Rubber Gasket) conforming to the requirements of Section 735 of the Uniform Standard Specifications or he may furnish 14 gauge Corrugated Metal Pipe (arch if specified) AASHTO Designation M-190, Type "C". All Corrugated Metal Pipe shall be outside bituminous coated and shall conform to Section 621 of the Uniform Standard Specifications.

#48" By-Pass Pipes shall be removed after canal lining is completed, and stockpiled as indicated under Section 350.

SECTION 623 - HEADWALL: The work under this item shall consist of constructing headwalls at the locations as shown on the plans and in accordance with MAG Standard 501-1.

Payment for this item will be made at the contract unit price bid per square foot of the exposed face of the wall and footing, excluding the area of the pipe opening, which price shall be full compensation for the item, complete in place, including all necessary labor, material and equipment.

SECTION 634 - DIRT DITCH: The work under this section consists of constructing the tailwater ditches as indicated on the plans and in accordance with the applicable provisions of Section 205 of the Uniform Standard Specifications.

Measurement of this item will be made to the nearest lineal foot.

Payment for all work under this section will be made at the unit price bid per lineal foot for ITEM NO. 634 - TAILWATER DITCH.

SECTION 635 - CONCRETE LINED IRRIGATION DITCH: This item shall consist of furnishing all material, labor and equipment necessary to construct various types of cast-in-place concrete lined irrigation ditch to the cross-section, lines, grades and locations as shown on the plans and details.

In preparation of the area for the location of the concrete lined ditch and prior to the excavation for the ditch, all earth fills, embankments and natural earth shall be constructed to the cross-section and grade shown on the plans or as directed by the Engineer.

The earth material for the construction of the ditch site, if approved by the Engineer, is to be obtained adjacent to the site and shall be placed in layers not to exceed six inches (6") in depth after being compacted to the required density. The natural earth found in place or any imported embankment material shall be compacted at optimum moisture content and by mechanical methods that will secure the required density of 85 percent of the maximum density for the material. The maximum density for the material shall be determined on the basis of laboratory compaction tests made in accordance with AASHTO Designation T-99, Method A and T-191 or ASTM D-2992 and D-3017 with the percent of density adjusted in accordance with the rock correction procedure for maximum density determination, standard detail, to compensate for the rock content larger than that which will pass a No. 4 sieve.

The depth of the compaction required will be to twelve inches (12") below the flow line grade of the completed ditch lining.

After construction and compaction of all the necessary embankments, the irrigation ditch section shall be excavated to the subgrade elevation and cross-section as shown on the plans to allow for placing of the concrete ditch lining. The surface against which the lining is to be placed shall be compacted and accurately finished to the grades and dimensions shown on the plans. Excess material removed in excavation of the ditch shall be used to strengthen the embankment on either side of the ditch or for backfill of existing ditches as directed by the Engineer.

The area adjacent to the proposed ditch from which material was borrowed for the construction of the embankment shall be graded and left in a smooth condition satisfactory to the Engineer.

The irrigation ditch lining shall consist of unreinforced concrete placed to the thickness as specified on the plans. The finished surface of the concrete shall be free from rock pockets or surface voids and shall be comparable to the finish obtained by use of a long handled steel trowel.

Concrete shall be mixed in such proportions that the 28-day strength has a minimum of 2000 psi with cement content of not less than 4.5 sacks per cubic yard of concrete. Cement for concrete shall be Type II, low alkali, in accordance with Federal Specification SS-C-192. The slump of the concrete shall not exceed 4 inches. The Contractor shall use an air entraining agent in the concrete, which shall be one of those permitted under ASTM Designation C-175 and approved by USBR for use in air entrained concrete. The amount of air entraining agent used shall be such as will effect the entrainment of from 4% to 6% of air, by volume, of the concrete at the job site.

The coarse aggregate shall pass through a screen having 3/4 inch square openings, and shall be reasonably well graded from 3/16 inch to 3/4 inch. Screens having openings of other sizes and shapes may be used, if equivalent results, as determined by the Engineer, are obtained.

The sand particles shall be hard, dense, durable uncoated rock fragments that will pass a screen having 1/4 inch square openings. The sand shall be well graded from fine to coarse, and shall be free from injurious amounts of dirt, organic matter and other deleterious substances.

Transverse grooves five-sixteenths of an inch (5/16") in width and five-eighths of an inch (5/8") in depth shall be made in the concrete lining at intervals of ten feet (10') and maintained to the required dimensions until the concrete has hardened.

As soon as the concretelining has hardened sufficiently, it shall be cured by the application of a white pigmented sealing compound conforming to the requirements of AASHTO Designation M-148 for Type 2. The sealing compound shall be applied in one coat to provide a continuous uniform white membrane over the entire concrete area. The sealing compound shall be applied at the rate of at least one gallon per 150 square feet and the rate shall be increased, if necessary, to obtain the required continuous membrane.

GENERAL COMMENT: The cost of all work required under this contract as shown on the plans for which there are no specific items shown on the Bidding Schedule, shall be included in the prices bid for related items.

An attempt has been made to determine the location of all underground utilities and to design the location and elevation of all irrigation and drainage pipes, culverts and structures so as not to interfere with the existing utilities, however, it shall be the Contractor's responsibility to cooperate with the pertinent utility companies so that any obstructing utility installation may be adjusted.

The District reserves the right to adjust design grades or the location of drainage structures prior to construction, if it should become necessary in the opinion of the Engineer, without additional cost to the District.

It shall be the Contractor's responsibility to protect the structure and construction site from any excessive or detrimental flooding, within the canal or floodway right-of-way which may occur during the construction period and until final acceptance of the completed bridges by the District.

Upon completion of the construction, the Contractor shall clear the canal and floodway bed and work area of all debris to the satisfaction of the Engineer.

No vehicular loads will be permitted on the bridges before the lapse of twenty-one (21) days from the date of the last pour of concrete for the bridge deck or approach slabs, unless approval is obtained in writing from the Engineer.

The Contractor shall take special precautions to keep the area around the bridges properly barricaded and marked with flares to prevent automotive traffic from running into the canal or floodway crossing the new bridge structures prior to the acceptance of the completed project by the Engineer. The installation of any necessary conduits, brackets or piping or any other facility or work which may be performed for the accommodation of any utility, shall be paid for by the utility owner. The Contractor shall make all arrangements that may be necessary for the construction and any financial agreement shall be solely between the Contractor and the utility owner.

GUARANTEE: The Contractor shall guarantee the structures for one year against faulty materials, faulty workmanship and failure to meet the specifications requirements. Said guarantee by the Contractor shall not apply to damage caused by earthquakes or other acts of God, land subsidence or faulty operations or any abuse of the structures by others.

EXHIBIT A

NOTE: The Salt River Project maintains energized aerial electrical power lines in the immediate vicinity of this project. Do not consider these lines to be insulated. Construction personnel working in proximity to these lines are exposed to an extreme hazard from electrical shock. Contractors, their employees, and all other construction personnel working on this project must be warned of the danger and instructed to take adequate protective measures, including maintaining a minimum ten (10) feet clearance between the lines and all construction equipment and personnel. (See OSHA Std. 1926.550(a)15). As an additional safety precaution, contractors should also be instructed to call the Salt River Project at 273-8888. to arrange, if possible, to have these lines de-energized or relocated when the work reaches their immediate vicinity. The cost of such temporary arrangements would be borne by the Contractor. The District can often respond to such requests if two days advance notice is given, but some situations may require up to 60 days lead time for relocation or other arrangements.

MARICOPA COUNTY LANDFILL  
FEE SCHEDULE

EFFECTIVE - DECEMBER 16, 1981

CLASS 1 REFUSE shall include all loose, easily compactible matter of a unit size which can be moved readily or handled by machinery or equipment normally used in the operation of a landfill project. The fee shall be based upon the size of the vehicle used to transport the refuse to the landfill. Landfills using scales will charge by weight at \$5.50 per ton.

1. Commercial Hauling

- A. 1/2 - 3/4 - 1 ton truck or large trailer of comparable size  
(up to 3.8 cubic yards volume) CODE (A).....\$ 5.50/load
- B. 1 1/2 to 3 ton trucks or large trailer of comparable size  
(up to 10 cubic yards volume) CODE (B).....\$14.50/load
- C. Garbage trucks or compactors - up to 20 cubic yards CODE (C)...\$29.00/load
- D. Garbage trucks or compactors - up to 30 cubic yards CODE (D)...\$43.50/load
- E. Garbage trucks or compactors - up to 40 cubic yards CODE (E)...\$58.00/load
- F. Garbage trucks or compactors - up to 50 cubic yards CODE (F)...\$72.50/load
- G. Garbage trucks or compactors - up to 60 cubic yards CODE (G)...\$87.00/load

2. Dump trucks or open semi trucks will be charged the next lower rate from their actual truck volume for loose or uncompacted Class 1 refuse applicable to items C through G above only. (Exception - Class 2 refuse will pay the full rate as listed in paragraph 1 above.)

CLASS 2 REFUSE shall include trees, logs, stumps, construction wastes, or any other items of refuse of a unit size or weight such as to be difficult and costly to move, handle or compact by normal landfill operations. Trees, logs, and stumps must be trimmed and cut into pieces not exceeding six feet in length, or eighteen inches in diameter. No construction refuse or demolished building material which is too large for the landfill equipment to handle readily will be accepted for dumping. The dumping fees for commercial haulers shall be based upon the size, quantity and nature of the refuse material and the unit size as follows:

- 1. Construction refuse CODE (J).....Same as Class 1
- 2. Tires/whole tires CODE (T).....Four times Class 1
- 3. Vehicle bodies CODE (X).....\$35.00 each
- 4. Barrels (30 to 55 gallons) CODE (R).....Four times Class 1

Barrels crushed or cut into quarter sections.....Same as Class 1

CLASS 3A REFUSE shall consist of non-hazardous liquid waste. Types of acceptable liquid wastes include grease trap materials, chemical toilet waste, car wash waste, laundry waste, service station sump materials, steam cleaning rack waste, and septic tank waste. Waste other than these listed above will NOT be accepted.

1. Each liquid load will be assessed a fee for liquid waste testing.....@\$1.50/load
2. Each disposal of a non-hazardous liquid waste will be assessed according to the non-hazardous liquid waste manifest .....@\$2.00/500 gallons

CLASS 3B REFUSE shall consist of small dead animals of the household variety (No livestock accepted).....CODE (K).....Same as Class 1

Residents hauling Class 1 refuse from home only - No charge.

Because of the inability to predict all types of refuse that might be presented for disposal, the right to refuse dumping privileges, in the best interest of operating and prolonging the life of the landfill, is reserved to the discretion of the landfill operator.

A surcharge of \$25.00 may be assessed to any user of a landfill, if their account is not paid in full within 30 days after billing.

PERMITS MAY BE OBTAINED FOR AN ANNUAL FEE (NOT PRORATED) OF \$10.00 AT THE MARICOPA COUNTY LANDFILL DEPARTMENT, 3325 WEST DURANGO STREET PHOENIX, ARIZONA 85009-6295 OR BY MAIL WITH FEE ATTACHED. FOR FURTHER INFORMATION CALL 269-2661. A \$50.00 TRUST FEE WILL ALSO BE REQUIRED WHICH IS REFUNDABLE UPON CANCELLATION OF ACCOUNT.

NOTICE - SCAVENGING AT MARICOPA COUNTY SANITARY LANDFILLS IS PROHIBITED VIOLATORS WILL BE REFERRED TO THE SHERIFF'S OFFICE FOR APPROPRIATE ACTION



CONTRACT

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_, by and between \_\_\_\_\_

of the City of \_\_\_\_\_, County of \_\_\_\_\_, State of \_\_\_\_\_, party of the first part, hereinafter designated the CONTRACTOR, and the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, acting by and through its BOARD OF DIRECTORS, a political subdivision of the State of Arizona, a body politic with corporate power, party of the second part, hereinafter designated OWNER.

WITNESSETH: That the said Contractor, for and in consideration of the sum to be paid him by the said Owner, in the manner and at the time hereinafter provided, and of the other covenants and agreements herein contained, and under the penalties expressed in the bonds provided, hereby agrees, for himself, his heirs, executors, administrators, successors, and assigns to as follows:

ARTICLE I-SCOPE OF WORK: The contractor shall furnish any and all labor, materials, equipment, transportation, utilities, services and facilities required to perform all work for the construction of Project No. \_\_\_\_\_

and to completely and totally construct the same and install the material therein for the Owner, in a good and workmanlike and substantial manner and to the satisfaction of the Owner through its Engineers and under the direction and supervision of the Engineer, or his properly authorized agents and strictly pursuant to and in conformity with the Plans and Specifications prepared by the Engineers for the Owner, and with such modifications of the same and other documents that may be made by the Owner through the Engineer or his properly authorized agents, as provided herein.

ARTICLE II-CONTRACT DOCUMENTS: The Invitation for Bids, Plans, Standard Specifications and Details, Special Provisions, Addenda, if any, and Proposal, as accepted by the BOARD OF DIRECTORS, Performance Bond, Payment Bond, Certificates of Insurance, and Change Orders, if any, are by this reference made a part of this Contract to the same extent as if set forth herein in full.

ARTICLE III-TIME OF COMPLETION: The Contractor further covenants and agrees at his own proper cost and expense, to do all work as aforesaid for the construction of said improvements and to completely construct the same and install the material therein, as called for by this agreement free and clear of all claims, liens, and charges whatsoever, in the manner and under the conditions specified within the time, or times, stated in the proposal pamphlet.

ARTICLE IV-PAYMENTS: For and in consideration of the faithful performance of the work herein embraced as set forth in the Contract Documents, which are a part hereof and in accordance with the directions of the owner, through its Engineer and to his satisfaction, the Owner agrees to pay the said Contractor the amount earned, computed from actual quantities of work performed and accepted or materials furnished at the unit bid price on the Proposal made a part hereof, and to make such payment within forty (40) days after final inspection and acceptance of the work.

IN WITNESS WHEREOF: Four (4) identical counterparts of this contract each of which shall for all purposes be deemed an original thereof, have been duly executed by the parties hereinabove named, on the date and year first above written.

The Contractor agrees that this Contract, as awarded, is for the stated work, and understands that payment for the total work will be made on the basis of the indicated amount(s), as bid in the Proposal.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
PARTY OF SECOND PART

\_\_\_\_\_

By: \_\_\_\_\_  
Chairman, Board of Directors

Date: \_\_\_\_\_

RECOMMENDED BY:

ATTEST:

\_\_\_\_\_  
Chief Engineer and General Manager  
Flood Control District  
of Maricopa County

\_\_\_\_\_  
Clerk of the Board

Date: \_\_\_\_\_

STATUTORY PAYMENT BOND PURSUANT TO TITLE 34  
CHAPTER 2, ARTICLE 2, OF THE ARIZONA REVISED STATUTES  
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That, \_\_\_\_\_  
(hereinafter called the Principal), as Principal, and

\_\_\_\_\_ a corporation organized and existing under the laws of the State of \_\_\_\_\_  
with its principal office in the City of \_\_\_\_\_,  
(hereinafter called the Surety), as Surety, are held and firmly bound unto the Flood  
Control District of Maricopa County, State of Arizona (hereinafter called the Obligee)  
in the amount of \_\_\_\_\_  
dollars (\_\_\_\_\_), for the payment whereof, the said Principal and Surety  
bind themselves, and their heirs, administrators, executors, successors and assigns,  
jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the  
Obligee, dated the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, for \_\_\_\_\_

\_\_\_\_\_ which contract is hereby referred to and made a part hereof as fully and to the same  
extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said  
Principal shall promptly pay all moneys due to all persons supplying labor or  
materials to him or his subcontractors in the prosecution of the work provided  
for in said contract, then this obligation shall be void, otherwise to remain in  
full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of  
Title 34, Chapter 2, Article 2, of the Arizona Revised Statutes, and all liabilities  
on this bond shall be determined in accordance with the provisions, of said Title,  
Chapter, and Article, to the extent as if it were copied at length herein.

The prevailing party or any party which recovers judgment on this bond shall  
be entitled to such reasonable attorney's fees as may be fixed by the court or a  
judge thereof.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

\_\_\_\_\_  
PRINCIPAL SEAL

\_\_\_\_\_  
AGENCY OF RECORD

BY: \_\_\_\_\_

\_\_\_\_\_  
AGENCY ADDRESS

\_\_\_\_\_  
SURETY SEAL

BY: \_\_\_\_\_

\_\_\_\_\_  
POWER OF ATTORNEY SEAL

BY: \_\_\_\_\_

CONTRACT NO. FCD 82-30  
PAYMENT BOND

STATUTORY PERFORMANCE BOND PURSUANT TO TITLE 34  
CHAPTER 2, ARTICLE 2, OF THE ARIZONA REVISED STATUTES  
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That, \_\_\_\_\_  
(hereinafter called the Principal), as Principal, and

\_\_\_\_\_ a corporation organized and existing under the laws of the State of \_\_\_\_\_  
with its principal office in the City of \_\_\_\_\_  
(hereinafter called the Surety), as Surety, are held and firmly bound unto the  
Flood Control District of Maricopa County, in the County of Maricopa, State of  
Arizona, in the amount of \_\_\_\_\_  
dollars (\$ \_\_\_\_\_), for the payment whereof, the said Principal and  
Surety bind themselves, and their heirs, administrators, executors, successors and  
assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the  
Flood Control District of Maricopa County, dated the \_\_\_\_\_ day of \_\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_, for \_\_\_\_\_

\_\_\_\_\_ which contract is hereby referred to and made a part hereof as fully and to the same  
extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said  
Principal shall faithfully perform and fulfill all the undertakings, covenants,  
terms, conditions and agreements of said contract during the original term of  
said contract and any extension thereof, with or without notice to the Surety,  
and during the life of any guaranty required under the contract, and shall also  
perform and fulfill all the undertakings, covenants, terms, conditions, and  
agreements of any and all duly authorized modifications of said contract that  
may hereafter be made, notice of which modifications to the Surety being hereby  
waived; then the above obligation shall be void, otherwise to remain in full  
force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of  
Title 34, Chapter 2, Article 2, of the Arizona Revised Statutes, and all  
liabilities on this bond shall be determined in accordance with the provisions  
of said Title, Chapter, and Article, to the extent as if it were copied at length  
herein.

The prevailing party in a suit on this bond shall be entitled to such  
reasonable attorney's fees as may be fixed by a judge of the court.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

\_\_\_\_\_  
AGENCY OF RECORD

\_\_\_\_\_  
PRINCIPAL SEAL

By: \_\_\_\_\_

\_\_\_\_\_  
AGENCY ADDRESS

\_\_\_\_\_  
SURETY SEAL

BY: \_\_\_\_\_

CONTRACT NO. FCD 82-30  
PERFORMANCE BOND

\_\_\_\_\_  
POWER OF ATTORNEY SEAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CERTIFICATE OF INSURANCE

CONTRACT FCD 82-30

PROJECT TITLE

Baseline Road Bridges at RWCD Canal and Floodway

NAME AND ADDRESS OF INSURANCE AGENCY	INSURANCE COMPANIES AFFORDING COVERAGES
	Company Letter <b>A</b>
	Company Letter <b>B</b>
	Company Letter <b>C</b>
	Company Letter <b>D</b>
	Company Letter <b>E</b>
	Company Letter <b>F</b>
NAME AND ADDRESS OF INSURED	Company Letter <b>G</b>

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.

COMPANY LETTER	TYPE OF INSURANCE	POLICY NUMBER	EXPIRATION DATE	LIMITS OF LIABILITY IN \$1,000	
				MINIMUM	each occurrence
	<input type="checkbox"/> COMPREHENSIVE GENERAL LIABILITY FORM <input type="checkbox"/> PREMISES OPERATIONS <input type="checkbox"/> CONTRACTUAL <input type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input type="checkbox"/> EXPLOSION & COLLAPSE <input type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input type="checkbox"/> UNDERGROUND HAZARD <input type="checkbox"/> INDEPENDENT CONTRACTORS <input type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person \$500 each occurrence \$1,000 PROPERTY DAMAGE \$500 OR BODILY INJURY AND PROPERTY DAMAGE Combined \$1,000	
	<input type="checkbox"/> COMPREHENSIVE AUTO LIABILITY & NON-OWNED			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input type="checkbox"/> WORKERS' COMPENSATION and EMPLOYERS' LIABILITY			STATUTORY	each accident \$100
	<input type="checkbox"/> OTHER				

The Flood Control District of Maricopa County is added as an additional insured as respects work done for the District by the named insured as required by statute, contract, purchase order or otherwise requested. 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 effect the coverage available to the District without fifteen days written notice to the District. THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE COMPANY.

NAME AND ADDRESS OF CERTIFICATE HOLDER  
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
 3335 West Durango Street  
 Phoenix, Arizona 85009

DATE ISSUED \_\_\_\_\_

AUTHORIZED REPRESENTATIVE \_\_\_\_\_

It is further agreed that:

The Contractor hereby agrees to indemnify and save harmless the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, or any of its departments, agencies, officers or employees, from and against all loss, expense, damage or claim of any nature whatsoever which is caused by any activity, condition or event arising out of the performance or nonperformance of any of the provisions of this agreement. The Flood Control District of Maricopa County shall in all instances be indemnified against all liability, losses and damages of any nature for or on account of any injuries to or death of persons or damages to or destruction of property arising out of or in any way connected with the performance or nonperformance of this agreement, except such injury or damage as shall have been occasioned by the sole negligence of the Flood Control District of Maricopa County. The above cost of damages incurred by the Flood Control District of Maricopa County or any of its court costs, expenses for litigation and reasonable attorney's fees.

Date \_\_\_\_\_ Contractor \_\_\_\_\_