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ENGINEERING DIVISION
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SPECIAL PROVISIONS FOR WILLIAMS
FIELD ROAD BRIDGE OVER RWCD
FLOODWAY & APPROACH ROADWAY

CONTRACT #FCD 81-7

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SPECIAL PROVISIONS
FOR
WILLIAMS FIELD ROAD BRIDGE
OVER
RWCD FLOODWAY
AND APPROACH ROADWAY

CONTRACT NO. FCD 81-7



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 FCD 81-7
WILLIAMS FIELD ROAD BRIDGE OVER RWCD FLOODWAY
AND APPROACH ROADWAY

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
INVITATION FOR BIDS
WILLIAMS FIELD ROAD BRIDGE
OVER RWCD FLOODWAY AND APPROACH ROADWAY

BID OPENING: May 6, 1981, 2:00 p.m. (Phoenix time)

PROPOSED WORK: The proposed work consists of constructing concrete bridge and approach roadway and other miscellaneous items of work required for the completion of the project.

LOCATION OF WORK: The proposed work is located on Williams Field Road at the RWCD Floodway, east of Power Road.

SEALED BIDS: Sealed Bids for the proposed work will be received by the Chief Engineer and General Manager of the Flood Control District of Maricopa County, 3335 West Durango Street, Phoenix, Arizona until 2:00 p.m. (Phoenix time) on the above date, and then publicly opened and read. No bids will be received after the time specified for bid opening. All bids must be submitted on proposal forms furnished by the Flood Control District of Maricopa County. The Flood Control District of Maricopa County reserves the right to reject any and all bids and to waive any informality in any bid received.

ELIGIBILITY OF CONTRACTORS: The Contractor shall be appropriately licensed as a Contractor in the State of Arizona for performing the before-mentioned type of work.

PRINCIPAL ITEMS AND APPROXIMATE QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
22,000	C.Y.	Channel Excavation
4,000	C.Y.	Borrow Excavation
60	Ton	Asphalt Pavement
145	L.F.	Concrete Caisson
470	C.Y.	Class A & B Concrete
74,000	Lbs.	Reinforcing Steel
38	Ea.	Precast Concrete Beams

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.

INVITATION FOR BIDS
CONTRACT NO. FCD 81-7

CONTRACT TIME: The Contractor shall complete all work on the project within one hundred twenty (120) calendar days after date of Notice to Proceed.

A PRE-BID CONFERENCE WILL BE HELD ON April 23, 19 81, AT 10:00 A.M. IN THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY CONFERENCE ROOM, 3335 WEST DURANGO STREET. IT IS IN THE BEST INTEREST OF PROSPECTIVE BIDDERS TO ATTEND THE PRE-BID CONFERENCE.

QUESTIONS OR ITEMS FOR CLARIFICATION MAY BE ADDRESSED TO THE CHIEF ENGINEER AND GENERAL MANAGER, PREFERABLY IN WRITING, PRIOR TO THE PRE-BID CONFERENCE. ANY ANSWERS OR CLARIFICATIONS AFFECTING THE COST WILL BE ADDRESSED TO ALL BIDDERS IN AN ADDENDUM. UNDER NO CIRCUMSTANCES WILL VERBAL ANSWERS OR CLARIFICATIONS BE GIVEN TO INDIVIDUAL CONTRACTORS EITHER BEFORE OR AFTER THE PRE-BID CONFERENCE.

CONTRACT PLANS SPECIAL PROVISIONS & CONTRACT DOCUMENTS: Plans, Special Provisions, 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 \$10.00 by check payable to the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. This payment will not be refunded. Each bid must be accompanied by a bond or certified check in the amount of 5% of bid, 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 condition for the faithful performance of the work, otherwise, said amount will be forfeited to the Flood Control District as liquidated damages.

PREVAILING WAGE SCALE: All labor employed on the work shall be paid for at rates not less than the prevailing rates of wages certified by the Industrial Commission of Arizona for public works contracts in excess of \$1,000. A list of prevailing wage rates is on file in the office of the Flood Control District of Maricopa County and with the Clerk of the Board of Directors, and may be inspected at any time during regular working hours, or it may be secured from the office of the Industrial Commission of Arizona.

ALL BIDS ARE TO BE MARKED IN ACCORDANCE WITH SECTION 102.9 OF THE UNIFORM STANDARD SPECIFICATIONS.

RHEA WOODALL, CLERK
BOARD OF DIRECTORS
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

INVITATION FOR BIDS
CONTRACT NO. FCD 81-7

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
INVITATION FOR BIDS, FCD 81-7
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, specifications, 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. It is in the best interest of the bidders to attend the pre-bid conference and site showing. Bidders should visit the site and take such other steps as may be reasonably necessary to ascertain the nature and the location 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. The bidder shall be appropriately licensed as a Contractor in the State of Arizona for performing the type of work described. 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.

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. Award of Contract. Award and execution of a contract shall be in accordance with MAG Section 103.
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 or paragraph number; however, in case of conflict, these instructions and Special Provisions supersede the Uniform Standard Specifications (MAG).

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
(Construction Contract)

BID FORM

Project: Williams Field Road Bridge
Over RWCD Floodway
and Approach Roadway

Invitation: FCD 81-7

Date: April 6, 1981

Location: Vicinity of Higley
Maricopa County, Arizona

To: Chief Engineer and General Manager
Flood Control District of Maricopa County
3335 West Durango
Phoenix, Arizona 85009

The following Proposal is made on behalf of _____

_____ and no others. The Total contract amount
of this proposal is (in words) _____

_____ and _____/100 dollars, (in figures)

_____. This amount being the sum total of the extended
amount for each pay item on the Bidding Schedule.

Evidence of authority to submit the Proposal is herewith furnished. The Proposal is in all respects fair and is made without collusion on the part of any person, firm, or corporation mentioned above, and no member or employee of the Flood Control District Board of Directors is personally or financially interested, directly or indirectly in the Proposal, or in any purchase or sale of any materials or supplies for the work in which it relates or in any portion of the profits thereof.

The Undersigned certifies that the approved Plans, Uniform Standard Specifications for Public Works Construction, 1979 Edition (MAG) and revisions and supplements thereto, together with the Special Provisions, forms of Contract and Bond authorized by the Board of Directors and constituting essential parts of this Proposal, have been carefully examined, and also that the site of the work has been personally inspected.

The Undersigned declares that the amount and nature of the work to be done is understood and that at no time will misunderstanding of the Plans, Specifications, Special Provisions, or conditions to be overcome, be plead. On the basis of the Plans, Specifications, Special Provisions, the forms of Contract, and the Bond proposed for use, the Undersigned proposes to furnish all the necessary machinery, equipment, tools, apparatus, and other means of construction, to do all the work and to furnish all the materials in the manner specified and to finish the entire project within the time

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.

Williams Field Road Bridge
Over RWCD Floodway
and Approach Roadway

B I D D I N G S C H E D U L E

CONTRACT NO. FCD 81-7

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
210	4,000	C.Y.	Borrow Excavation			
215	22,000	C.Y.	Channel Excavation			
225	1,600	M. Gal.	Watering			
301	0.06	Mile	Subgrade Preparation			
310-1	170	Ton	Select Material			
310-2	190	Ton	Aggregate Base			
315	2	Ton	Bituminous Prime Coat			
321 C3/4	60	Ton	Asphalt Concrete			
350	1	L.S.	Removal of Existing Improvements			
405	1	Ea.	Survey Monument MAG 120-2			
420	118	L.F.	Chain Link Fence			

CONTRACTOR'S NAME _____

TOTAL _____

BIDDING SCHEDULE

CONTRACT NO. FCD 81-7

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
501	145	L.F.	Concrete Caisson			
505-1	360	C.Y.	Class A Concrete			
505-2	114	C.Y.	Class B Concrete			
505-3	73,970	Lb.	Reinforcing Steel			
506	38	Ea.	Precast Concrete Beam			
515	3,125	Lb.	Structural Steel			
622	100	L.F.	18" Pipe Culvert			

CONTRACTOR'S NAME _____

TOTAL _____

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
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY PROJECT
FOR
WILLIAMS FIELD ROAD BRIDGE
OVER RWCD FLOODWAY
AND APPROACH ROADWAY

CONTRACT NO. FCD 81-7

LOCATION OF THE WORK: This project is located on Williams Field Road at the RWCD Floodway, east of Power Road.

PROPOSED WORK: The work consists of constructing concrete bridge and approach roadway 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 1980 revisions thereto together with the Maricopa County Highway Department Supplement to the Uniform Standard Specifications and the Construction Special Provisions contained herein.

PREVAILING WAGE SCALE: All labor employed on the work shall be paid for at rates not less than the prevailing rates of wages certified by the Industrial Commission of Arizona for public works contracts in excess of \$1,000. A list of prevailing wage rates is on file in the office of the Flood Control District of Maricopa County and with the Clerk of the Board of Directors, and may be inspected at any time during regular working hours, or it may be secured from the office of the Industrial Commission of Arizona.

CONTRACT TIME: The Contractor shall complete all work on the project within one hundred twenty (120) calendar days after the date of Notice to Proceed.

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 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.

CONSTRUCTION SPECIAL PROVISIONS
CONTRACT NO. FCD 81-7

MATERIAL SOURCES: Borrow material may be obtained from County Pit No. 405. Pit No. 405 is located on a trail road, one mile west of Ellsworth Road, 1/2 mile south of Elliot Road, more accurately described as Northeast one-quarter of Northeast one-quarter of Southeast one-quarter of Section Seventeen (17), Township One (1) South, Range Seven (7) East of the Gila and Salt River Base and Meridian. The material consists of silty sand and clay. The pit is controlled by Maricopa County. Any royalty charges for material removed from this pit for this project will be paid by the District.

OTHER SOURCES: Select material, aggregate base, and mineral aggregate may be obtained from commercial sources. However, if the Contractor elects to secure material from other sources, he 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 Maricopa County Standard Specifications and these Special Provisions for such material.

SOIL BORING REPORT: A copy of the soil boring report is available for viewing at the offices of the Maricopa County Highway Department.

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.

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

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

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

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 Flood Control District of Maricopa County.

The Contractor shall take special precautions to keep the area around the bridge properly barricaded and marked with flares to prevent automotive traffic from running into the floodway and from crossing the new bridge structure prior to the acceptance of the completed project in writing by the Flood Control District of Maricopa County. 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.

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 105.2 - PLANS AND SHOP DRAWINGS:

The Contractor shall submit shop drawings and all other required submittals as follows:

Initial submittal for review and/or approval - three (3) sets of which one (1) will be returned.

Final submittal for approval - five (5) sets of which two (2) sets will be returned.

SUBSECTION 105.6 - COOPERATION WITH UTILITIES: Change the second paragraph of the Uniform Standard Specifications to two paragraphs, to read as follows:

The Contractor shall comply with the requirements of ARS-40-360,21 through 40-360.29 in notification to the interested utility owners prior to start of construction. The Contractor shall resolve all problems with the utility owners concerned.

Any facility or work performed by the Contractor for the accommodation of any utility such as the installation of conduits, brackets or piping on bridges, shall be paid for by the utility owner. The Contractor

shall make all arrangements necessary for the construction and any financial agreement shall be solely between the Contractor and the utility owner.

Delete the last sentence of the third paragraph of the Uniform Standard Specifications.

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

Mountain Bell Telephone Company	263-3219
Salt River Project.	273-2202
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
Williams Air Force Base	988-2611
Town of Gilbert	892-0956

SECTION 206 - STRUCTURE EXCAVATION AND BACKFILL:

Structure excavation consists of the removal of material for the construction of the bridge substructure in accordance with the plans and Section 206 of the Uniform Standard Specifications.

Structure backfill consists of furnishing, placing, and compacting backfill material behind the bridge abutments in accordance with the plans and Section 206 of the Uniform Standard Specifications.

No separate payment will be made for structure excavation and backfill as such and the cost thereof shall be included in the price bid for the items to which they are appurtenant.

SECTION 210 - BORROW EXCAVATION:

The work under this item consists of furnishing imported borrow for filling the existing floodway channel and existing bridge area to the grades and limits as shown on the plans and in accordance with Section 210 of the Uniform Standard Specifications.

Volumes will be computed by the average end area method.

SECTION 215 - CHANNEL EXCAVATION:

The work under this item consists of excavation for the floodway channel to the grades and limits as shown on the plans and in accordance with Section 215 of the Uniform Standard Specifications.

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

CONSTRUCTION SPECIAL PROVISIONS
CONTRACT NO. FCD 81-7

Placement and compaction shall be in accordance with Section 211 of the Uniform Standard Specifications except that at least 95% of the maximum density obtained in compaction tests shall be achieved.

Volumes will be computed by the average end area method.

Payment for this Item will be made at the Contract unit price bid per cubic yard for Section 215 - CHANNEL EXCAVATION, which price shall be full compensation for the Item, complete in place, including placing and compaction.

SECTION 225 - WATERING:

The work under this Item consists of applying water to the fill construction and roadway grade as directed by the Engineer and in accordance with Section 225 of the Uniform Standard Specifications.

SECTION 301 - SUBGRADE PREPARATION:

The work under this Item consists of the preparation of subgrades for the approach roadway and bridge slabs as indicated on the plans and in accordance with 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, except as hereinafter noted.

Any disposal area selected by the Contractor shall be approved by the Engineer prior to its use as such. Disposal of waste in approved areas shall be made in such a manner that natural drainage will not be blocked or diverted unless so directed by the Engineer.

SECTION 310 - UNTREATED BASE:

The work under this Section consists of furnishing and placing select material as indicated on the plans and in accordance with Section 310 of the Uniform Standard Specifications. Select Material and Aggregate Base shall conform to the requirements of Section 702 of the Uniform Standard Specifications.

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 material shall be Grade MC-250 liquid asphalt. Prime coat shall be applied at the rate of 0.4 gallon per square yard unless otherwise specified by the Engineer. The Engineer shall determine whether prime coat will be used.

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.

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.

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 Item shall consist of the removal and disposal of existing concrete bridge, abandoned gas station, and any other 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.

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

The Contractor will be permitted to dispose of some of the broken concrete on the backslopes of the channel bank in fill section only outside of the normal section. The concrete shall be no more than three (3) feet thick and covered with a minimum of twelve (12) inches of fill material.

SECTION 401 - TRAFFIC CONTROL:

Traffic control shall conform to the applicable paragraphs of Section 401 of the MAG Uniform Standard Specifications.

A road closure of Williams Field Road at the bridge construction site is authorized. The Contractor shall provide and maintain bridge closure signing as well as extra detour signing on the temporary Williams Field Air Force Base entrance road south of the existing bridge. The Contractor shall coordinate the installation of signs and barricades with County forces who shall restripe and move traffic onto detour road. All warning signs shall be 48 inches in size and placed on channels with placement coordinated with County Traffic Engineer. At least five (5) working days before closing road, the contractor shall notify local police, fire, and schools as well as the Commander of Williams Air Force Base of the closure date.

The Contractor shall install and maintain deceleration sand berms (approximately five feet high) in the path of through traffic prior to bridge construction or excavation. Sand berms shall remain until roads are open to traffic or construction presents less of a hazard than the berm.

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

SECTION 420 - CHAIN LINK FENCES:

The work under this Item consists of constructing a chain link fence on the bridge deck in accordance with the plans and Section 420 of the Uniform Standard Plans.

SECTION 501 - CONCRETE CAISSON:

The work under this Item shall consist of furnishing labor and equipment necessary to drill and bell the holes for cast-in-place concrete caisson.

Cast-in-place concrete caisson shall conform to the applicable requirements of Section 501 of the Uniform Standard Specifications. After reaching the desired bottom elevation, the hole shall be carefully machine cleaned to remove all loose disturbed soil from the bottom of the hole. All holes shall be inspected and approved by the Engineer before concrete is placed.

Payment for drilling and belling holes for concrete caissons will be made at the Contract unit price bid per lineal foot for Item No. 501 - CONCRETE CAISSON, which price shall be full compensation for the Item complete, including labor and equipment.

Concrete and reinforcing steel for concrete caisson will be paid for separately as indicated in Section 505 - CONCRETE STRUCTURES.

SECTION 505 - CONCRETE STRUCTURES:

The work under this Section consists of constructing in place the concrete portions of the bridge and approach slabs in accordance with the plans and Section 505 of the Uniform Standard Specifications.

Payment for all work under this Section will be made at the unit price bid per cubic yard for ITEM NO. 505-1 CLASS "A" CONCRETE and ITEM NO. 505-2 CLASS "B" CONCRETE and at the unit price bid per pound for ITEM NO. 505-3 REINFORCING STEEL, respectively.

SECTION 506 - PRECAST PRESTRESSED CONCRETE MEMBERS:

The work under this Section consists of furnishing and placing prestressed concrete beams 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 furnishing and placing steel diaphragms in accordance with the plans and Section 515 of the Uniform Standard Specifications.

The steel diaphragms shall conform to Section 770 and the galvanizing to Section 771 of the Uniform Standard Specifications.

Payment for all work under this Section will be made at the unit price bid per pound for Item No. 515 - STRUCTURAL STEEL, which price shall be full compensation for the Item complete in place, including galvanizing.

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 gage Corrugated Metal Pipe (arch if specified) AASHTO Designation M-190, Type "C" or Smooth Lined Corrugated Metal Pipe (Equivalent to 12 gage), AASHTO Designation M-36, Type 1A. All Corrugated Metal Pipe shall be outside bituminous coated and shall conform to Section 621 of the Uniform Standard Specifications.

SECTION 109 - MEASUREMENT AND PAYMENTS:

Payment shall be made as directed in the Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction. Costs for all work for which there is no specific pay item shall be included in the items for which a pay quantity exists. Monthly Progress Payments of ninety percent (90%) of the agreed to value of the work accomplished shall be made by the District if requested.

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. FCD 81-7 Williams Field Road Bridge over RWCD Floodway and Approach Roadway 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: Five (5) 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 81-7
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 81-7
PERFORMANCE BOND

POWER OF ATTORNEY SEAL

BY: _____

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CERTIFICATE OF INSURANCE

CONTRACT FCD 81-7

The _____ Certifies that the following insurance policies have been issued on behalf of _____

Name of Insured _____

Address of Insured _____

Type of Insurance	Policy No.	Eff. Date	Exp. Date	Limits of Liability
(1) Workmen's Compensation				Statutory
(2) Contractor(s) Protective Bodily Injury				\$500,000 Each Occurrence
(2) Contractor(s) Protective Property Damage				\$100,000 Each Accident \$100,000 Aggregate
(3) Contractual Bodily Injury				\$500,000 Each Occurrence
(3) Contractual Property Damage				\$100,000 Each Accident \$100,000 Aggregate
(4) Automobile Bodily Injury & Property Damage				\$500,000 Each Occurrence

When the project includes construction of a new, or modification of an existing building (in addition to the above types):

(5) Fire and Extended Coverage plus Vandalism and Malicious Mischief For the Full Amount of the Contract, with the Flood Control District of Maricopa County named as an additional insured.

Type of Insurance	Policy No.	Eff. Date	Exp. Date	Limits of Liability
(6) Umbrella Coverage				\$1,000,000

Policy Includes Coverage For:

- (1) a. Damage caused by blasting
b. Damage caused by collapse or structural injury
c. Damage to underground utilities
- (2) Liability assumed in construction agreements and other types of contracts or agreements in effect in connection with insured operations.
- (3) All owned, hired, or non-owned automotive equipment used in connection with the insured operation.

It is agreed that none of these policies will be cancelled or changed so as to affect this certificate until ten (10) days written notice of such cancellation or change has been delivered to the Flood Control District of Maricopa County.

It is further agreed that:

- (1) These policies shall not expire until all work has been completed and the project has been accepted by the Flood Control District of Maricopa County. (If a policy does expire during the life of the Contract, a renewal Certificate of the required coverage must be sent to the Flood Control District of Maricopa County not less than five days prior to expiration date.)

The Contractor hereby agrees to indemnify and save harmless the Flood Control District of Maricopa County, and any jurisdiction or agency issuing permits for any work included in the project, their officers, agents, and representatives from all suits, actions, loss, damage, expense, cost, or claims of any character or any nature brought on account of any injuries or damage sustained by any person or property arising out of the work done in fulfillment of the construction of the improvement under the terms of this agreement, or on account of any act or omission by the Contractor or his agents, or from any claims or amounts arising or recovered under Workman's Compensation laws or any other law, bylaw, ordinance, or order or decree.

This certificate is not valid unless countersigned by an authorized representative of the Insurance Company.

Date _____ Countersigned by _____

Signature