

MARICOPA COUNTY HIGHWAY DEPARTMENT
3325 WEST DURANGO STREET
PHOENIX, ARIZONA 85009

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Phoenix, AZ 85009

SPECIAL PROVISIONS
FOR
EL MIRAGE ROAD BRIDGE AT
LUKE AIR FORCE BASE DRAINAGE
DITCH AND APPROACH ROADWAY
WORK ORDER NO. 68289



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

A901.504

MARICOPA COUNTY HIGHWAY DEPARTMENT
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ATTENTION

ALL PROSPECTIVE BIDDERS

Some of the Bid Bonds previously received with bids for Maricopa County Highway Department construction projects have not been in complete compliance with Arizona Revised Statutes (ARS).

ARS 34-201-A3 requires that every bid be accompanied by a certified check, cashier's check or surety bond for five percent (5%) of the amount of the bid.

In some cases the bonds limit the five percent (5%) to the difference between the low bid and that of the next lowest responsible bidder to whom a contract would be awarded in the event that the low bidder failed to enter into contract within the specified time.

Bids received with limitation on the five percent (5%) will be considered as non-responsive bids and will not be accepted or considered for award of contract.

Please take note and submit your bids accordingly.

MARICOPA COUNTY HIGHWAY DEPARTMENT
INVITATION TO BID

EL MIRAGE ROAD BRIDGE AT
LUKE AIR FORCE BASE DRAINAGE DITCH AND APPROACH ROADWAY

M. C. H. D. Work Order No. 68289

BID OPENING: March 25, 1987

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

LOCATION OF WORK: The proposed work is located on El Mirage Road at Luke Air Force Base Drainage Ditch, 1/2 mile north of Glendale Avenue.

SEALED BIDS: Sealed bids for the proposed work will be received by the Maricopa County Engineer, 3325 West Durango Street, Phoenix, Arizona, 85009, until 2:00 P.M. (Phoenix time) on the above date, and then publicly opened and read by a designee of the County Engineer. No bids will be received after the time specified for bid opening. All bids must be submitted on proposal forms furnished by the Maricopa County Highway Department. The Board of Supervisors reserves the right to reject any and all bids and to waive any informality in any bid received.

Bidder shall submit bid for concrete beam bridge alternate or steel beam bridge alternate and may submit bid for both. The County Highway Department reserves the right to select alternate to be constructed.

ELIGIBILITY OF BIDDERS: In order to determine if bidder is entitled to the provisions of Arizona Revised Statutes Section 34-241, all bidders shall submit, as a part of their proposal, an affidavit stating whether or not taxes have been paid for two successive years as provided in Arizona Revised Statutes Section 34-241. The affidavit should be in the form provided in the Special Provisions.

In the event a bidder challenges compliance with the tax provision, the successful bidder will be required to provide proof of compliance.

PRINCIPAL ITEMS AND APPROXIMATE QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
300	Tons	Asphalt Concrete
600	L.F.	Concrete Piles
140	C.Y.	Structural Concrete
17,000	Lbs.	Reinforcing Steel
21	Eq.	Precast Concrete Beams
90,000	Lbs.	Structural 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.

CONTRACT TIME: The Contractor shall complete all work on the project within ninety (90) calendar days after date of Notice to Proceed.

A PREBID CONFERENCE WILL BE HELD ON MARCH 11, 1987, AT 10:15 A.M. IN THE MARICOPA COUNTY HIGHWAY DEPARTMENT CONFERENCE ROOM, 3325 WEST DURANGO STREET. IT IS IN THE BEST INTEREST OF PROSPECTIVE BIDDERS TO ATTEND THE PREBID CONFERENCE.

QUESTIONS OR ITEMS FOR CLARIFICATION MAY BE ADDRESSED TO THE COUNTY ENGINEER, PREFERABLY IN WRITING, PRIOR TO THE PREBID 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 PREBID CONFERENCE.

CONTRACT PLANS, SPECIAL PROVISIONS & CONTRACT DOCUMENTS: Plans, Special Provisions and other contract documents may be obtained from the Maricopa County Highway Department, 3325 West Durango Street, Phoenix, Arizona 85009 upon payment in the amount specified below. Checks should be made payable to the TREASURER OF MARICOPA COUNTY.

<u>Reduced Plans (11" x 17")</u>	
Pickup at 3325 West Durango Street	\$10.00
or	
Mail out (additional \$7.50)	\$17.50

Full size plans are available by calling 233-8609 or 233-8790 at least one full working day in advance, as follows:

<u>Full Size Plans (24" x 36")</u>	
Pickup at 3325 West Durango Street	\$20.00
or	
Mail out (additional \$7.50)	\$27.50

These payments will not be refunded. We cannot guarantee mail delivery.

Each bid must be accompanied by a bond or certified check in the amount of 5 percent of bid, made payable to the TREASURER 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 Notice of Award, enter into proper contract and bond condition for the faithful performance of the work, otherwise said amount will be forfeited to the said Board of Supervisors as liquidated damages.

Prospective bidders are advised that bid bonds must comply with ARS 34-201-A3 in that bonds must be for the full five percent (5%) of the amount bid and shall not be limited to any lesser amount.

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

CHERIE PENNINGTON, CLERK
BOARD OF SUPERVISORS
MARICOPA COUNTY

clb

CONSTRUCTION SPECIAL PROVISIONS
MARICOPA COUNTY PROJECT
FOR EL MIRAGE ROAD BRIDGE
AT LUKE AIR FORCE BASE DRAINAGE
DITCH AND APPROACH ROADWAY
WORK ORDER NO. 68289

LOCATION OF THE WORK: This project is located on El Mirage Road at Luke AFB drainage ditch, one-half mile north of Glendale Avenue.

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

The Contractor shall submit a bid for the concrete beam bridge alternate or the steel beam bridge alternate and may submit a bid for both. The County Highway Department reserves the right to select the alternate to be constructed.

SPECIFICATIONS: The work embraced herein and as shown on the plans for the construction of this project shall be done in accordance with Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction dated 1979, together with the 1980, 1981, 1982 and 1983 revisions thereto, the Maricopa County Highway Department Supplements to the Uniform Standard Specifications dated August 3, 1981, October 19, 1981 and May 21, 1984 and the Construction Special Provisions contained herein.

CONTRACT TIME: The Contractor shall complete all work on the project within ninety (90) 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 Supplements to the Uniform Standard Specifications, however, in case of conflict, these Special Provisions supersede the Uniform Standard Specifications and the Maricopa County Supplements.

MATERIAL SOURCES: 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 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.

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

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 by the Maricopa County Highway Department. This may be accomplished by calling (602) 233-8609. Any addendums 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 Contractor shall submit the entire Special Provisions booklet intact, with the following documents (included herein unless otherwise stated) completed at the time bids are submitted.

1. AFFIDAVIT BY CONTRACTOR CERTIFYING NO COLLUSION - this must have all blanks filled in and must be notarized.
2. AFFIDAVIT BY CONTRACTOR CERTIFYING PAYMENT (OR NONPAYMENT) OF TAXES - THIS MUST HAVE ALL BLANKS FILLED IN, MUST INDICATE WHETHER TAXES HAVE OR HAVE NOT BEEN PAID (STRIKING OUT NON-APPLICABLE WORDS), AND MUST BE NOTARIZED.
3. PROPOSAL - applicable portions must be filled in including project number, description, principal's names, titles, dates and telephone numbers.
4. BIDDING SCHEDULE - this must include unit costs in written works and in figures. If a discrepancy occurs between the two, the written word unit price shall govern.
5. BID SURETY - EVERY PROPOSAL SHALL BE ACCOMPANIED BY A CERTIFIED CHECK, CASHIER'S CHECK OR A SURETY BOND FOR FIVE PERCENT OF THE AMOUNT OF THE BID. (NO FORM IS INCLUDED FOR THE SURETY BOND).

OTHER FORMS: Execution of the CONTRACT, PERFORMANCE BOND, PAYMENT BOND and CERTIFICATE OF INSURANCE is not required for the submission of the bid. They must, however, be executed by the successful bidder prior to the start of the work.

NOTE: The Contractor may be required to provide certification of satisfactory completion of similar prior public works contracts.

SECTION 103.6 - CONTRACTOR'S INSURANCE: Concurrently with the execution of the contract, the successful Contractor shall furnish Maricopa County a Certificate of Insurance showing the following minimum coverage:

Type	Limits
Comprehensive General	
Bodily injury per person	\$1,000,000
Bodily injury each occurrence	\$5,000,000
Property damage	\$1,000,000
Comprehensive Auto	
Liability and non-owned	Same as above.
Worker's Compensation	Statutory
Employer's Liability	\$100,000

In addition to the above limits, specific coverages are required. These are shown on the Certificate of Insurance (Form 7500-301) included herewith.

The Contractor (and his insurance agent) may use the Certificate of Insurance included herewith, or he may furnish a separate Certificate. In either case, the limits and coverage must equal or exceed that shown on the enclosed Certificate of Insurance.

The statement declaring that "Maricopa County is added as an additional insured..." must be shown on the furnished Certificate. The Contractor shall assume the responsibility to maintain said coverage during the term of the contract and failure by the County to request or maintain current certificates on file shall not waive their requirement to provide such coverage.

SECTION 105.2 - PLANS AND SHOP DRAWINGS:

Plans of the existing bridge are available for viewing at the offices of the Maricopa County Highway Department.

Shop drawings shall be submitted as follows:

1. Initial submittal for review - three (3) copies of which one (1) will be returned to the contractor.
2. Final submittal for review - five (5) copies of which two (2) will be returned to the contractor.

SECTION 105.4 - COORDINATION OF PLANS AND SPECIFICATIONS:

The Contractor shall perform the work in accordance with the intent of the drawings and specifications and shall not take advantage of any error or omission in the drawings and specifications. In the event the

contractor discovers an error or omission, he shall immediately notify the engineer. If the contractor fails to notify the engineer of any errors or omissions which the Contractor discovered or should have discovered through the exercise of reasonable diligence, any additional work required as the result of such errors or omissions shall be compensated on a force account basis and such payment shall be the exclusive compensation to Contractor for any costs, expenses or damages resulting directly or indirectly from the error or omission.

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

Mountain Bell Telephone Company.....	235-3244
Salt River Project.....	236-2201
Arizona Public Service.....	271-7014
Southwest Gas.....	942-8999
Location Staking (A.P.S., Mtn. Bell, S.R.P.)..Blue Stake...	263-1100
Flood Control District.....	262-1501
Luke Air Force Base Engineers Office.....	935-7632
City of Glendale.....	931-5673

SECTION 105.12 - CONTRACTOR RESPONSIBILITY:

The Contractor is solely and completely responsible for jobsite conditions during the course of construction (i.e., from the time that Contractor first places men, equipment and/or materials at or near the jobsite until the engineer certifies completion of the project). This requirement shall apply continuously and shall not be limited to normal working hours. Contractor's responsibility shall include, but is not necessarily limited to, the following:

- a. Physical condition of the jobsite;
- b. Safety of all persons and property on the jobsite.

Contractor further agrees to defend, indemnify and hold the County harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability proximately arising from the sole negligence of the County.

SECTION 109.4 - COMPENSATION FOR ALTERATION OF WORK:

Notwithstanding anything in the MAG Specifications to the contrary, the following provisions shall be deemed a part of this contract and shall control:

The rate of compensation for any pay item in which there has been an overrun or underrun shall be subject to equitable adjustment. In the case of an overrun, the Contractor shall be paid at the contract unit price for the quantity of work specified for that pay item in the original bidding schedule. Any equitable adjustment in the rate of compensation due to overruns or underruns will be made on such basis as is necessary to cover a reasonable estimate of cost, plus an allowance, not to exceed 15 percent, for overhead and profit. If the parties are unable to reach an agreement, the engineer has the authority to order the excess work done on an actual cost basis as specific in Subsection 109.5 of the MAG Specifications.

SECTION 206 - STRUCTURE EXCAVATION AND BACKFILL:

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

Structure backfill consists of furnishing, placing and compacting backfill material 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 301 - SUBGRADE PREPARATION:

The work under this section consists of constructing the subgrades for the pavements, including ditches, in accordance with the plans and Section 301 of the Uniform Standard Specifications. Subgrade Preparation shall also include the preparation of subgrades to the required line and grades for the tapered portions of the project located beyond the stationing designating the "Begin Project" and "End Project", and for those locations where aggregate base courses are to be used for driveway turnouts in accordance with the plans or as directed by the Engineer.

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.

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 material 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 either AC-20 or AC-40 complying with Table 711-1A of the Uniform Standard Specifications as revised in 1983.

The mineral aggregate shall meet the grading requirements for Mix Designation C-3/4 in accordance with Section 710 of the Uniform Standard Specifications.

In addition to pugmill type mixing plants, Drum Dryer Mixers will be allowed in accordance with Standard Specification 710.9. 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.

Where the compacted thickness of the asphalt pavement course is designated as three inches or less, the asphalt may be placed in one lift.

SECTION 710.7 - BATCH MIXING:

Add the following paragraph to Sub-sections 710.7.5 Mixing:

If the results obtained indicate that uniform proportioning of the aggregate from the bins or uniform and correct amounts of asphalt are not being delivered, the Engineer shall order that operations cease until proper corrections have been made.

SECTION 350 - REMOVAL OF EXISTING IMPROVEMENTS:

The work under this item shall consist of the removal and disposal of existing bridge and any other obstacle to construction, until 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 shall be stockpiled within the right-of-way for salvage by the County.

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 and the approval of the contractors method of application of all traffic control measures, shall not relieve the contractor of the responsibility of protecting the work, the workman and the traveling public.

A road closure of El Mirage Road for bridge construction is authorized. The Contractor shall place road closure signing at the intersections of Glendale Avenue and Northern Avenue as well as at both approaches to bridge construction site.

At the time of the prejob conference, the Contractor shall submit for review and approval a traffic control plan. The plans shall show all measures to include types of signs, barricades and sand berms with their placement and spacing. All advance warning construction signs shall be mounted on channels driven into the ground.

Two weeks prior to closing the road, the Contractor shall place signs at the bridge site advising the public of the date the road will be closed and his estimate when road will reopen.

Prior to any excavation or construction, the Contractor shall install and maintain deceleration sand berms (approximately five feet high and twenty-eight feet wide) across the pavement on each approach of traffic to the bridge construction site. Sand berms shall remain until the road is open to traffic or construction presents less of a hazard than the berms.

The Contractor shall provide and maintain all necessary signs, barricades and center line vertical panels for five working days beyond any construction concrete cure time which prevent traffic from using the bridge or acceptance of the project by the County whichever is greater.

SECTION 420 - CHAIN LINK FENCES:

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

SECTION 501 - CONCRETE PILES:

The work under this section consists of constructing concrete piles in accordance with the plans and Section 501 of the Uniform Standard Specifications. Concrete and reinforcing steel will be paid for under 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.

The concrete shall conform to Section 725 and the reinforcing steel shall conform to Section 727 of the Uniform Standard Specifications.

The use of fly ash will be permitted in all concrete mixes.

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 furnishin and placing prestressed concrete beams in accordance with the plans and Section 506 of the Uniform Standard Specifications.

Elastomeric bearing pads shall conform to Section 25 of the AASHTO Standard Specifications for Highway Bridges, 1983 Edition and Interims to date.

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, reinforcing steel and bearing pads.

SECTION 510 - CONCRETE BLOCK MASONRY:

The work under this section consists of constructing retaining wall in accordance with the plans and Section 510 of the Uniform Standard Specifications.

Payment for this item will be made at the unit price bid per square foot of the exposed face of wall and footing, complete in place.

SECTION 515 - STEEL STRUCTURES:

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

The steel beams and connections shall conform to Section 770 and the paint to Section 790 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 painting.

SECTION 525 - CANAL LINING:

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

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

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 M.A.G. Std. Detail 501-1, 2.

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.

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.

Any facility or work which may be performed for the accomodation 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.

The County reserves the right to adjust desgin 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 Maricopa County.

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

Upon completion of the construction, the Contractor shall clear the drainage ditch 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 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 drainage ditch or crossing the new bridge structure prior to the acceptance of the completed project by the Maricopa County Engineer.

EXCAVATION OR DISPOSAL SITES:

The Contractor shall check with the Flood Control District (Telephone Number 262-1501) on any sources of sand, gravel or borrow material or any excess material disposal sites in order to determine whether the material or disposal site is in conflict with any Flood Control District project or flood plain requirement.

The successful bidder shall obtain and submit to the Engineer a copy of a written response or Flood Plain Use Permit from the County or Municipal Flood Plain Manager having jurisdiction over the proposed excavation or disposal site. There is no fee for permits issued by the Flood Control District for areas under its jurisdiction.

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 earthquake or other acts of God, land subsidence or faulty operations or any abuse of the structures by others.



CERTIFICATE OF INSURANCE

COUNTY DEPARTMENT _____

PROJECT TITLE _____

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

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	POLICY EXPIRATION DATE	LIMITS OF LIABILITY IN \$1,000	
				MINIMUM	each occurrence
	<input checked="" type="checkbox"/> COMPREHENSIVE GENERAL LIABILITY FORM <input checked="" type="checkbox"/> PREMISES OPERATIONS <input checked="" type="checkbox"/> CONTRACTUAL <input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input checked="" type="checkbox"/> EXPLOSION & COLLAPSE <input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input checked="" type="checkbox"/> UNDERGROUND HAZARD <input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS <input checked="" type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person \$1,000 each occurrence \$5,000 PROPERTY DAMAGE \$1,000 OR BODILY INJURY AND PROPERTY DAMAGE Combined \$5,000	
	<input checked="" type="checkbox"/> COMPREHENSIVE AUTO LIABILITY & NON-OWNED			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input checked="" type="checkbox"/> WORKERS' COMPENSATION and EMPLOYERS' LIABILITY			STATUTORY	each accident \$100
	<input type="checkbox"/> OTHER				

Maricopa County is added as an additional insured as respects work done for the County 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 County without fifteen days written notice to the County. THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE COMPANY.

NAME AND ADDRESS OF CERTIFICATE HOLDER
 Maricopa County Hwy. Dept.
 3325 W. Durango Street
 Phoenix, Arizona 85009

DATE ISSUED _____ AUTHORIZED REPRESENTATIVE _____

PROHIBITION OF DISCRIMINATION IN STATE CONTRACTS
NONDISCRIMINATION IN EMPLOYMENT BY GOVERNMENT
CONTRACTORS AND SUBCONTRACTORS

During the performance of this contract, the contractor agrees as follows:

A. The contractor will not discriminate against any employee or applicant for employment because of race, age, color, religion, sex or national origin. The contractor will take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, age, color, religion, sex or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, lay-off or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

B. The contractor will in all solicitations or advertisement for employees placed by or on behalf of the contractor state that all qualified applicants will receive consideration for employment without regard to race, age, color, religion, sex or national origin.

C. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding a notice to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this Executive Order and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

D. The contractor will furnish all information and reports required by the contracting agency and will permit access to his books, records and accounts by the contracting agency and the Civil Rights Division for purposes of investigation to ascertain compliance with such rules, regulations and orders.

E. In the event of the contractor's noncompliance with the non-discrimination clauses of this contract or with any of such rules, regulations or orders of the Arizona Civil Rights Division said noncompliance will be considered a material breach of the contract and this contract may be cancelled, terminated or suspended in whole or in part, and the contractor may be declared ineligible for further government contracts until said contractor has been found to be in compliance with the provisions of this order and the rules and regulations of the Arizona Civil Rights Division, and such sanctions may be imposed and remedies invoked as provided in Part II of this order, and the rules and regulations of the Arizona Civil Rights Division.

F. The contractor will include the provisions of paragraphs A through E in every subcontractor purchase order so that such provision will be binding upon each subcontractor or vendor. The contractor will take such action with respect in the subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the State of Arizona to enter into such litigation to protect the interests of the State of Arizona.

G. Each contractor having a contract containing the provisions prescribed in this section shall file and shall cause each of his subcontractors to file compliance reports with the contracting agency or the Civil Rights Division, as may be directed. Compliance reports shall be filed within such times and shall contain such information as the practices, policies, programs and employment policies, programs and employment statistics of the contractor and each subcontractor and shall be in such form as the Arizona Civil Rights Division may prescribe.

H. Bidders or prospective contractors or subcontractors shall be required to state whether they have participated in any previous contract subject to the provisions of this order or any preceding similar Executive Order and in that event to submit on behalf of themselves and the proposed subcontractors compliance reports prior to, or as an initial part of negotiation of a contract.

I. Whenever the contractor or subcontractor has a collective bargaining agreement or other contract or understanding with a labor union or an agency referring workers or providing or supervising apprenticeship or training for such workers, the compliance report shall include such information from such labor unions or agency practices and policies affecting compliance as the contracting agency or Civil Rights Division may prescribe; provided that, to the extent such information is within the exclusive possession of a labor union or an agency referring workers or providing or supervising apprenticeship or training and such labor union or agency shall refuse to furnish such information to the contractor, the contractor shall so certify the contracting agency as part of its compliance report and shall set forth what efforts he has made to obtain such information.

J. The contracting agency or the Civil Rights Division shall require that the bidder or prospective contractor or subcontractor shall submit as part of his compliance report a statement in writing signed by an authorized officer or agent on behalf of any labor union or any agency referring workers or providing or supervising apprenticeship or other training with which the bidder or prospective contractor deals with supporting information to the effect that the signer's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin, and that the signer either will affirmatively cooperate in the implementation of the policy and provisions of this order or that it consents and agrees that recruitment employment and the terms and conditions of employment under the proposed contract shall be in accordance with the purpose and provisions of this order. In the event that the union or the agency shall refuse to execute such a statement, the compliance shall so certify and set forth what efforts have been made to secure such a statement and such additional factual material as the contracting agency or the Civil Rights Division may require.

Part II - Enforcement

A. Each contracting agency shall be primarily responsible for obtaining compliance with this Executive Order with respect to contracts entered into by such agency or its contractors. All contracting agencies shall comply with the rules of the Civil Rights Division in discharging their primary responsibility for securing compliance with the provisions of contracts and otherwise with the terms of this order and rules and regulations and orders of the Civil Rights Division issued pursuant to this

order. They are directed to cooperate with the Civil Rights Division and to furnish the Division such information and assistance as it may require in the performance of the Division's functions under this order. They are further directed to appoint or designate from among the agency personnel compliance officers. It shall be the duty of such officers to first seek compliance with the objective of this order by conference, conciliation, mediation or persuasion.

B. The Civil Rights Division may investigate the employment practices of any government contractor or subcontractor or initiate such investigation by appropriate contracting agency or determine whether or not the contractual provisions specified in this order have been violated. Such investigations shall be conducted in accordance with the procedures established by the Civil Rights Division and the investigating agencies shall report to the Civil Rights Division any action taken or recommended. The Civil Rights Division may receive and investigate or cause to be investigated complaints by employees or prospective employees of a government contractor or subcontractor which allege discrimination contrary to the contractual provisions specified in Part I of this order. If the investigation is conducted for the Civil Rights Division by a contracting agency, that agency shall report to the Civil Rights Division what action has been taken or is recommended with regard to such complaint.

C. The Civil Rights Division shall use its best efforts directly and through contracting agencies, other interested state and local agencies, contractors and all other available instrumentalities to cause any labor union engaged in work under government contracts or any agency referring workers or providing or supervising apprenticeship or training for or in the course of such work to cooperate in the implementation of the purposes of this order.

D. The Civil Rights Division or any agency, officer or employee in the executive branch of the government designated by rule, regulation or order of the Civil Rights Division may hold such hearings, public or private as the Division may deem advisable for compliance, enforcement or educational purposes. The Civil Rights Division may hold or cause to be held hearings in accordance with rules and regulations issued by the Civil Rights Division prior to imposing, ordering or recommending the imposition of penalties and sanctions under this order.

E. No order for debarment of any contractor from further government contracts under this order shall be made without affording the contractor an opportunity for a hearing.

F. Sanctions and Penalties. In accordance with such rules, regulations or orders as the Civil Rights Division may issue or adopt, the Civil Rights Division or the appropriate contracting agency may publish or cause to be published the names of contractors or unions which it has concluded have complied or have failed to comply with the provisions of this order and with the rules, regulations and orders of the Civil Rights Division.

1. Contracts may be cancelled in whole or in part, terminated, or suspended absolutely, or continuation of contracts may be conditioned upon a program for future compliance approved by the contracting agency or the Civil Rights Division; provided that any contracting agency shall refrain from entering into further contracts, extensions or other modifications of existing contracts with any noncomplying contractor until such contractor has established and will carry out personnel and employment policies in compliance with the provisions of this order.

2. Under rules and regulations prescribed by the Civil Rights Division, each contracting agency shall make reasonable efforts within a reasonable time limitation to secure compliance with the contract provisions of this order by methods of conference, conciliation, mediation and persuasion before proceedings shall be instituted under this order or before a contract shall be cancelled or terminated in whole or in part under this order for failure of a contractor or subcontractor to comply with the contract provisions of this order.

P R O P O S A L

Work Order No. _____

TO THE BOARD OF SUPERVISORS
MARICOPA COUNTY
PHOENIX, ARIZONA

Gentlemen:

The following Proposal is made for constructing _____
_____ in the County of Maricopa, State of Arizona.

The following Proposal is made on behalf of _____
_____ and no others. 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 Board of Supervisors 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 dated 1979, and amendment thereto, Special Provisions, forms of Contract and Bond authorized by the Board of Supervisors 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 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 County Engineer.

The Undersigned understands that the quantities mentioned herein are approximate only 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.

The Undersigned further proposes to perform all extra work that may be required on the basis provided in the specifications and to give such work personal attention and to secure economical performance.

The Undersigned further proposes to execute the Contract Agreement and furnish satisfactory Bond within ten (10) days from the date of Notice 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 Supervisors, 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 is fulfilled.

A Proposal guaranty in the amount and character named in the Invitation to Bid 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 County of Maricopa in either of such events, shall be entitled and is hereby given the right to retain the said Proposal guaranty as liquidated damages.

IF BY AN INDIVIDUAL:

(Name)

(Address)

IF BY A FIRM OR PARTNERSHIP:

(Firm Name)

(Date) (Phone)

(Firm Address)

BY: _____

Date: _____
(Phone)

** Name and Address of Each Member:

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

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 COUNTY
OF MARICOPA, acting by and through its BOARD OF SUPERVISORS, a political subdivi-
sion of the State of Arizona, a body politic with corporate power, party of the
second part, hereinafter designated the 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 pro-
vided, 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 satis-
faction of the Owner through its Engineers and under the observation and inspection
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 pro-
vided herein.

ARTICLE II - CONTRACT DOCUMENTS: The Call for Bids, Plans, Standard Speci-
fications and Details, Special Provisions, Addenda, if any, and Proposal, as
accepted by the BOARD OF SUPERVISORS, 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.

CONTRACTOR, PARTY OF FIRST PART

BY _____

DATE

TITLE: _____

COUNTY OF MARICOPA
STATE OF ARIZONA

BY _____

CHAIRMAN, BOARD OF SUPERVISORS
PARTY OF THE SECOND PART

DATE

ATTEST:

CLERK OF THE BOARD

DATE

RECOMMENDED BY:

COUNTY ENGINEER

DATE

APPROVED AS TO FORM this ____ day of _____, 198_____
THOMAS E. COLLINS, Maricopa County Attorney

BY _____

DEPUTY COUNTY ATTORNEY

CERTIFICATE OF INSURANCE APPROVED THIS ____ day of _____, 198_____
HAL HEAZELTINE, DIRECTOR, RISK MANAGEMENT

BY _____

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 Maricopa County Highway Department, 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 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 was 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

AGENCY ADDRESS

WORK ORDER NO.

PRINCIPAL SEAL
BY: _____

SURETY SEAL
BY: _____

POWER OF ATTORNEY SEAL
BY: _____

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 Maricopa County Highway Department, 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 monies 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

BY: _____

AGENCY OF RECORD

SURETY SEAL

BY: _____

AGENCY ADDRESS

WORK ORDER NO.

POWER OF ATTORNEY SEAL

BY: _____

EL MIRAGE ROAD BRIDGE
AT LUKE AIR FORCE BASE
DRAINAGE DITCH AND APPROACH ROADWAY

Page 1 of 4

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

APPROACHES AND MISCELLANEOUS

WORK ORDER NO. 68289

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
225	60	M.Gal	Watering			
301	0.12	Miles	Subgrade Preparation			
310-1	630	Tons	Select Material			
310-2	390	Tons	Aggrgate Base			
315	3	Tons	Bituminous Prime Coat			
321	290	Tons	Asphalt Concrete			
350	1	L.S.	Removal of Existing Improvements			
405	1	E.Q.	Survey Monument MAG 120-2, Type E			
525	410	S.Y.	Canal Lining			
622	110	L.F.	18" Pipe Culvert			

B I D D I N G S C H E D U L E
APPROACHES AND MISCELLANEOUS

WORK ORDER NO. 68289

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
623	50	S.F.	Headwalls MAG 501			

Subtotal
Approaches and Miscellaneous _____

B I D D I N G S C H E D U L E
ALTERNATE A - CONCRETE BEAM BRIDGE

WORK ORDER NO. 68289

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
420	90	L.F.	Chain Link Fence			
501-1	594	L.F.	Concrete Piles-Furnish			
501-2	582	L.F.	Concrete Piles-Driven			
505-1	65	C.Y.	Class A Concrete			
505-2	78	C.Y.	Class B Concrete			
505-3	17,410	Lbs.	Reinforcing Steel			
506	21	E.Q.	Precast Concrete Beams			
510	220	S.F.	Retaining Wall			
				Subtotal Alternate A		

Contractor's Name _____

Total Approaches and Miscellaneous
+ Alternate A _____

B I D D I N G S C H E D U L E
ALTERNATE B - STEEL BEAM BRIDGE

WORK ORDER NO. 68289

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN WRITING	UNIT COST IN FIGURES	AMOUNT
420	92	L.F.	Chain Link Fence			
501-1	550	L.F.	Concrete Piles-Furnish			
501-2	545	L.F.	Concrete Piles-Driven			
505-1	181	C.Y.	Class A Concrete			
505-2	73	C.Y.	Class B Concrete			
505-3	40,060	Lbs.	Reinforcing Steel			
510	220	S.F.	Retaining Wall			
515	94,060	Lbs.	Structural Steel			
				Subtotal Alternate B		

Contractor's Name _____

Total Approaches and Miscellaneous
+ Alternate B _____