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Specifications
&
Contract Documents
For
CAMELBACK SIDE DRAIN EXTENSION

4933

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Phoenix, AZ 85009

PROJECT NO. 08944
BID CALL 85-165



AUGUST 1985



CAPITAL IMPROVEMENTS

OFFICE



CITY OF SCOTTSDALE
BID CALL NO. 85-165
PROJECT NO. 08944

CAMELBACK SIDE DRAIN EXTENSION
ADDENDUM NO. 1, AUGUST 2, 1985

The Specifications are hereby amended and/or clarified as follows:

SPECIFICATIONS

- | <u>Page</u> | <u>Correction</u> |
|-------------|--|
| 2 | <u>Start and Completion of Work</u>
Under sequence of construction, add No. 4 to No.1, including the outlet pipe and junction structure, so that the grass can be established during the hot growing season. |
| 17 | <u>Section 220 Rip Rap Construction:</u>
"Natural appearance" of top surface of rip rap means free of any concrete smear. This condition can be obtained by washing the surface before the concrete hardens or sand blasting. |
| 19 | <u>SUBSECTION 321.5.4 Asphalt Base and Surface Course:</u>
Delete entire sentence. |
| 20 | <u>Section 336 Pavement Matching and Surface Replacement:</u>
Amend MAG 336.2.2 paragraph 2, all reference to seal coat shall mean slurry seal type 2, with asphalt material not to exceed 15%. |

The trench cut on Camelback Road is considered to be straddling the centerline, thereby requiring the entire width of Camelback Road to be seal coated, with the following exception: seal coat between Sta 25+00 to Sta 29+00 and Sta 31+36 to Sta 35+50 will be from the north lip of the new median gutter to the existing lip of gutter on the north side of Camelback Road; and seal coat between Sta 29+00 to Sta 31+36 will be from the new asphalt match line (12' Right-of-Centerline at 67th Street) and from the North lip of the new median gutter to the existing lip of gutter on the North side of Camelback Road.

Temporary pavement replacement on Camelback Road between Sta 25+00 to Sta 29+00 and Sta 31+36 to Sta 35+50 is included in the unit price of the 72" pipe, Bid Item 618-15.

27 Bid Item 618-15
72" Pipe, includes the cost of providing temporary pavement replacement, per MAG 336.2.3, on Camelback Road between Sta 25+00 to Sta 29+00 and Sta 31+36 to Sta 35+50. The Contractor will be required to maintain the temporary pavement until the median is constructed.

28 621.2 Materials
Add: The soil ph and resistivity values of 8.4 and 1200 ohm, respectively, were the results of soils tests on Scottsdale Road and are not the results of tests on Camelback Road or Lafayette Blvd. All reference to 0.079 inch thickness is intended to mean the minimum thickness.

Delete last sentence and add:

The Contractor shall provide certified lab test showing that the pipe backfill and soil conditions along the pipe line have ph and resistivity values that satisfy the design life requirements when used on the AISI hand book chart for determination of pipe wall thickness.

29 621 A.2 Materials
Add: The certification by lab tests for ph and resistivity in the backfill and soil along the pipe line are to be used for the determination of the pipe wall thickness, as written in 621.2 of this addendum.

30 621 B.2 Materials
Add: The certification by lab tests for ph and resistivity in the backfill and soil along the pipe line are to be used for the determination of the pipe wall thickness, as written in 621.1 of this addendum.

31 Section 795 Landscape Material
2nd paragraph - change Mulberry Tree to Evergreen Elm.

Add to 4th paragraph - Materials to be used in the irrigation system shall be as follows, or approved equal:

Remote Control Valve - Rainbird or Griswold
Controller - Rainbird, CIC series
Sprinkler head - (55') Thompson 185-186 or Toro 640
(30') Toro Super 600 series
(15') Rainbird 1400 or Toro 540

Pressure type vacuum breaker - Rainbird (metal, brass or bronze).

Controller wire - Solid copper #14

PVC pipe - Minimum class 200

Hydro mulch - Bermuda seed mix of 10lbs/1000 sf, 1750 lbs fiber/acre.

<u>Page</u>	<u>Correction</u>
31	Add to 5th paragraph: The shape of the basin is being revised to provide a larger flat area in the bottom. The area to be seeded and sprinkled will not change significantly.
	Paragraph 6 and 7: Change reference to Bid Item 795-2 to 795-3.

PROPOSAL

<u>Page</u>	<u>Change</u>
38	Item 795-1, line out description of Mulberry Tree write in Evergreen Elm.

PLANS

<u>Sheet</u>	<u>Change</u>
7	Add: Temporary Pavement Replacement, 466, between Sta 25+00 to Sta 29+00
8	Add: Temporary Pavement Replacement, 425, between Sta 31+36 to Sta 35+00.
9	Add: Temporary Pavement Replacement, 58, between Sta 35+00 to Sta 35+50.
34	Line out description of 24" box Mulberry. Write in 24" box Evergreen Elm, "Ulmus paruifolia".

This addendum shall be stapled inside the front cover of the Project 08944 Specification Book and receipt acknowledged on Page 31A.

John Conley
Purchasing Director
City of Scottsdale



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NOTICE INVITING PROPOSALS OR BIDS

BID CALL #85-165

NOTICE IS HEREBY GIVEN that the Council of the City of Scottsdale, Maricopa County, State of Arizona, ordered: culvert and special junction structure construction.

Across 68th Street north of the Arizona Canal;

A detention basin southwest of the intersection of LaFayette and 68th Street;

A storm sewer on LaFayette from 64th Street to 68th Street;

On 68th Street from LaFayette to Monte Rosa Streets;

And northerly of Camelback Road for 575 feet;

On Camelback Road from roughly 64th Place to 68th Street;

Complete with pipe connections, manholes, catch basins, special inlet structures, median construction on Camelback Road, miscellaneous pavement and curb and gutter replacement, and relocation of sanitary sewers.

SEALED BIDS WILL BE RECEIVED until 2:00 P.M., August 8, 1985, by the Purchasing Director at 7501 E. 2nd St., Scottsdale, Arizona 85251. At this time, the bids will be publicly opened and read aloud for furnishing: all equipment, labor, and material necessary for the construction of six large special drainage structures, 130 feet of 78" pipe, 2628 feet of 72" pipe, 310 feet of 60" pipe, 1385 feet of 54" pipe, 240 feet of 48" pipe, 656 feet of 42" pipe, various lengths of 15", 18", 21", 24", 30", and 36" pipe, excavation of detention basin, manholes, catch basins, medians, and various sanitary sewer, curb, pavement, and street replacement work at the locations listed above.

All proposals must be submitted on the proposal forms contained in the specifications and contract documents.

Each Bid shall be accompanied by a cashier's check or a bid bond acceptable to the City of Scottsdale for a penal sum of not less than ten percent (10%) of the amount of the bid made payable to the order of the City of Scottsdale, Arizona.

Bid proposals must be presented in sealed envelopes bearing on the face of the envelope, in the lower left hand corner, the name and address of the bidder, the Bid Call Number, the item bid, and time and date of the opening.

Bids received after the time and date specified above will be returned unopened to the bidder. A bid may be withdrawn prior to the time set for opening bids. No bid may be withdrawn for a period of sixty (60) days after the date set for receipt of bids.

Bid proposals accepted by the City constitute a legally binding offer. In addition, the successful bidder will be required to sign one of the City of Scottsdale's standard construction contracts.

Contact Annette Grove, 994-2399 for additional information.

The City Council reserves the right, as the interest of the owner may require, to reject any and all bids, to waive any informality in bids received, and to accept, increase or reduce the quantities of any or all items of any bid unless the bidder qualified such bid by specific limitation, and reserves the right to reject the bid of any person who has been delinquent or unfaithful to any contract with the City of Scottsdale.

NOTICE INVITING PROPOSALS OR BIDS continued

Plans, specifications and proposal forms may be obtained from the Central Purchasing office at 7501 E. Second Street, Scottsdale, Arizona for a sum of thirty dollars (\$30). This fee is nonrefundable. For those contractors interested in purchasing plans and specifications by mail, there will be an additional advance charge of \$5.00 to cover postage and handling. Therefore, a check made payable to the City of Scottsdale in the amount of thirty-five dollars (\$35.00) should accompany your request.

The bid award will be made on August 19, 1985.

All Bid Proposals received in response to this Bid Call shall, where applicable, be in conformance with City of Scottsdale Ordinance #848, Standard Bid, Contract and Purchase Commitment Terms and Conditions adopted by Resolution #1308 dated December 3, 1974. A reference copy is available at the City Clerk's Office.

CITY OF SCOTTSDALE, ARIZONA

By Janus McDonald

for John Conley
Purchasing Director

INFORMATION FOR BIDDERSGENERAL

Plans, specifications and proposal forms may be obtained from the General Purchasing Office at 7501 E. Second Street, Scottsdale, Arizona, for the sum of \$30. This fee is nonrefundable.

BONDS REQUIRED

- a) Each proposal shall be accompanied by a cashier's check, or bid bond acceptable to the City, in the amount equal to at least ten percent (10%) of the total amount of the proposal, payable without condition to the City as a guarantee that the bidder, if awarded the contract, will promptly execute such contract in accordance with the proposal and in such manner and form required by the Contract Documents, and will furnish good and sufficient bond for the faithful performance of the same.
- b) Bonds in the following amounts will be required at the time of executing the formal contract:
- (1) Performance Bond - One Hundred Percent (100%) of the contract price
 - (2) Payment Bond - One Hundred Percent (100%) of the contract price

EXECUTION OF CONTRACT

The Contractor shall execute the contract with the City of Scottsdale within ten (10) days after receiving the Notice of Award for the contract.

START AND COMPLETION OF WORK

Work shall start within five (5) days after issuance of NOTICE TO PROCEED and shall be completed within two hundred and forty (240) calendar days after such issuance.

A suggested sequence of construction follows:

1. Construct new storm drain along Camelback Road, including special structures, manholes, catch basins, and connector pipes, plus the street improvements and storm drain in 68th Street north of Camelback Road.
2. Construct new storm drain along LaFayette Boulevard from 64th Street to headwall in detention basin, including special structures, catch basins, connector pipes, sanitary sewer relocation, pavement and curb and gutter replacement.
3. Construct new storm drain in 68th Street north of the Arizona Canal, including special structure, headwall, manholes, catch basins, sanitary sewer relocation, and all street pavement and curb and gutter replacement.
4. Construct detention basin at southwest corner of LaFayette Boulevard and 68th Street, including installation of grouted riprap slope protection and landscaping.
5. Construct medians in Camelback Road, including the installation of landscaping.

Use of the above sequence is not mandatory. The Contractor is free to follow any plan of sequencing approved by the Manager of Capital Engineering, provided that the plan prohibits work from proceeding on either 68th Street or Camelback Road between November 28, 1985 and January 31, 1986.

MEASUREMENT AND PAYMENT

Final payment shall be made within forty (40) days after approval of the final invoice by the City Inspector and a Contractor's Affidavit Regarding Settlement of Claims is received. The above affidavit shall be submitted on forms provided in this specifications book.

STANDARD DETAILS AND SPECIFICATIONS

Unless otherwise noted, construction of this Project shall be in accordance with all applicable Maricopa Association of Governments' Uniform Standard Specifications for Public Works Construction, Latest revision, which may be obtained at the office of the Maricopa Association of Governments, 1820 W. Washington, Phoenix, Arizona. Standard Details shall be MAG Standard Details, latest revision, which may be obtained at the same address.

SUBMITTING BIDS

No bid will be considered unless it is made upon the "Proposal" forms contained in the project specifications. Mark "BID CALL NO. 85-165" on sealed envelope.

PLANS AND SPECIFICATIONS TO SUCCESSFUL BIDDER

The successful bidder may obtain five (5) sets of Plans and Specifications for this project from the Office of the Capital Engineering Manager at no cost. Additional sets will be furnished at cost.

CONTRACTOR'S INSURANCE COVERAGE

- a. Compensation Insurance: The Contractor shall secure and maintain during the life of the contract, Workmen's Compensation Insurance for all of his employees at the site of the project, and in case any of the work is sublet, the Contractor shall require each Subcontractor similarly to provide Workmen's Compensation Insurance for his employees unless such employees engaged are covered by the Contractor. In the event any class of employees engaged in the work under this contract at the site of the project is not protected by Workmen's Compensation Statute, the Contractor shall provide and similarly shall cause each Subcontractor to provide special insurance for the protection of such employees not otherwise protected.
- b. Public Liability and Property Damage Insurance: The Contractor shall take out, and maintain during the life of this Contract, such public liability and property damage insurance, both general and automobile liability, as shall protect him, any Subcontractor performing work under this contract and the City of Scottsdale from all claims for bodily injury, including accidental death, as well as for all claims for property damage arising from operations under this contract, whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by either of them. The Contractor agrees to include the City of Scottsdale as an additional insured in all of the insurance policies required under this contract and such insurance shall be primary.

The minimum limits required are:

Workmen's Compensation Insurance shall be secured and maintained in accordance with the Workmen's Compensation Law of Arizona.

Comprehensive General Liability Insurance including broad form property damage, premises-operations, independent contractors, contractual, and automobile liability shall be secured and maintained in an amount not less than \$5,000,000 each occurrence for bodily injury and \$250,000 per person for bodily injury and \$250,000 each accident for property damage.

The general contractor subletting any part of the work awarded to him shall provide a contingent liability policy in the same amount as provided for his public liability insurance.

c. Policy Shall Include Coverage For:

1. Damage caused by blasting
2. Damage caused by collapse or structural injury.
3. Damage to underground utilities.

Liability assumed in construction agreements and other types of contracts or agreements in effect in connection with insured operations.

All owned, hired or non-owned automotive equipment used in connection with the insured operation.

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

Fire and Extended Coverage plus Vandalism and Malicious Mischief for the Full Amount of the Contract, less costs for any foundation, underground utilities and/or landscaping, with the City of Scottsdale named as an additional insured.

e. 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 completed and the project has been accepted by the City of Scottsdale. (If a policy does expire during the life of the Contract, renewal Certificate of the required coverage must be sent to the City of Scottsdale not less than five days prior to expiration date.)

f. The Contractor hereby agrees to and shall indemnify, defend and save harmless the City of Scottsdale 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, on account of any act or omission by the contractor or his agents, or from any claims or amounts arising or recovered under Workmen's Compensation laws or any other law, by-law, ordinance, or order or decree.

PERMITS

Permits shall be obtained from the City of Scottsdale at no cost to the Contractor.

ENCROACHMENT PERMITS

Ordinance #403 or Code Part II, Title II, Chapter 2, Article 2, Sections 11-211 thru 11-224 outlines the requirement for Encroachment Permits. Permits when required must be acquired from Private Development Engineering. Field Engineering must be notified prior to the commencement of work and Field Engineering will represent the City for the purpose of inspecting the work for conformance to Plans, Specs, and detail as well as public safety requirements as authorized by Ordinance #403. The permits are issued at "No Charge" for City work.

PROPOSAL: The proposal pages must be completed for each pay item on the Bidding Schedule and will become part of the contract. An Alternate Bid Item (No.505-15) has been included in the proposal pages and the construction plans for contingency purposes only. This item will not be of consideration in the award of the contract, but, if required by the City of Scottsdale, will also become a part of the contract.

GENERAL CONDITIONS1. SCOPE

The work covered by these specifications consists of furnishing all plans, labor, equipment, materials for construction of: Camelback Side Drain Extension approved by the City of Scottsdale, Capital Improvements Engineering, in accordance with the "STANDARD SPECIFICATIONS AND DETAILS", "THE GENERAL CONDITIONS", and the "SPECIAL PROVISIONS". The drawings which show the details of the work specified herein are designated as the "PLAN" and form an integral part of the contract documents.

In the event of any conflict between the "GENERAL CONDITIONS" and "SPECIAL PROVISIONS" and the requirements of the "STANDARD SPECIFICATION AND DETAILS" or "PLANS", these "GENERAL CONDITIONS AND SPECIAL PROVISIONS" shall prevail.

2. STANDARD SPECIFICATIONS AND DETAILS

Construction of this project and all work done under this Contract shall be in accordance with these specifications and all applicable UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION sponsored and distributed by Maricopa Association of Governments (MAG) and STANDARD DETAILS called for on the plans including the latest approved revisions and City of Scottsdale supplements thereto in force at the time of bid advertisement, which shall be referred to hereinafter as the "STANDARD SPECIFICATIONS". In all cases where accepted Standards (AWWA, ANSI, AASHTO, ADOT, ASTM, etc.) are referred to in the "STANDARD SPECIFICATIONS", the latest revisions as of bid advertisement shall prevail. Copies of the STANDARD SPECIFICATIONS and supplements may be obtained at the MAG Office at 1820 W. Washington, Phoenix, AZ.

The GENERAL CONDITIONS AND SPECIAL PROVISIONS of these specifications provide for the supplementation, modification and/or amendments to the STANDARD SPECIFICATIONS.

3. DEFINITIONS

Definitions shall be as stated in Section 101.2 of the UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, Maricopa Association of Governments, with the following additions:

Design Engineer: Erikson & Salmon, Inc./Brooks Hersey & Assoc./Evans, Kuhn & Assoc./City of Scottsdale, as noted on plans.

Owner: CITY OF SCOTTSDALE

4. CONSTRUCTION PRACTICE

All construction practices and procedures shall conform to Section 107 of the Contract Works Hours and Safety Standards Act, (US Stat. 96, 40 USC 327) the latest revisions shall prevail.

5. CITY WATER DEPARTMENT (Phone: 994-7096):

The City Water Department charges to be paid by the Contractor are as follows:

Shut-down of 12" water lines, or smaller	@ \$40.00 ea.
New service taps and meter	820.00 ea.

Construction water from fire hydrants:

3" water meter deposit (refundable)	\$600.00
3" water meter deposit (non-refundable)	15.00
3" meter rental per month	65.02
Cost per 1000 gal. (1st 165,000)	.49
Cost per 1000 gal. (over 165,000)	.70

6. TRAFFIC CONTROL

- A) Complete street closures will not be permitted.
- B) Adequate barricades and lighted warning signs will be installed and maintained by the Contractor throughout the duration of the project. All traffic control shall be in accordance with the City of Phoenix Traffic Control Manual.
- C) The Capital Engineering Manager shall stipulate the traffic restrictions and/or minimum requirements throughout the construction period.
- D) The Contractor shall submit a construction schedule and traffic supplement for "Street Barricading and Channelization" to the Capital Engineering Manager for approval and/or modification before construction is initiated.
- E) Traffic Control shall conform to the requirements specified in these Special Provisions.

7. RESPONSIBILITY FOR DAMAGE CLAIMS

The Contractor shall indemnify, defend and save harmless the City and its officers, agents, or representatives from all suits, actions, loss, damage, expense, costs, or claims of any character or any nature brought on account of any injuries or damages 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 Workmen's Compensation laws or any other law, by-law, ordinance, or order or decree.

8. INSPECTION

- A) Inspectors may be stationed on the work to report to the Capital Engineering Manager as to the progress of the work, the manner in which it is being performed, and also to report whenever it appears that material furnished and work performed by the Contractor fail to fulfill the requirements of the specifications and contract. The Inspector may direct the attention of the Contractor to such failure or infringement but such inspection shall not relieve the Contractor from any obligation to furnish acceptable materials or to provide completed construction that is satisfactory in every particular.
- B) In case of any dispute arising between the Inspector and the Contractor as to material furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question and issue can be referred to and decided by the Capital Engineering Manager. Inspectors are not authorized to revoke, alter, enlarge, relax, or release any requirements of these specifications. Inspectors shall in no case act as foremen or perform other duties for the Contractor or interfere with the management of the work by the Contractor.
- C) Inspection or supervision by the Capital Engineering Manager shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor's foreman and superintendent.

9. HINDRANCES AND DELAYS

The Contractor agrees to make no claim for damages for delay in the performance of this contract occasioned by any act or omission of the City or any of its representatives, and agrees that any subject claim shall be fully compensated for by only an extension of time to complete the performance of the work as provided herein.

10. LIQUIDATED DAMAGES AND EXTENSION OF COMPLETION TIME

M.A.G. Specification 108.9 and 108.7 shall apply.

11. LOSSES AND DAMAGES

All loss or damage arising out of the nature of the work to be done or from the action of the elements, or from any unforeseen circumstances, in the prosecution of the same, or from any unusual obstructions or difficulties which may be encountered in and/or during the prosecution of the work, or from any casualty whatsoever of every description, shall be sustained and borne by the Contractor at his own cost and expense.

12. PROTECTION OF FINISHED OR PARTIALLY FINISHED WORK

The Contractor shall properly guard and protect all finished or partially finished work, and shall be responsible for the same until the entire contract is completed and accepted by the Capital Engineering Manager. Estimate of partial payment on work so completed shall not release the Contractor from such responsibility, but he shall turn over the entire work in full accordance with these specifications before final settlement shall be made.

13. CLEANUP

After all work under the contract is completed, the Contractor shall remove all loose concrete, lumber, wire, reinforcing, debris and other materials not incorporated in the work from the site of the work. Cleanup shall include the removal of all excess pointing mortar materials within pipes.

14. FINAL ACCEPTANCE

"Final Acceptance" shall mean a written final acceptance of the work by the Capital Engineering Manager. The Manager of Capital Engineering or his authorized representatives shall make the final acceptance promptly after all work under the contract has been completed in accordance with the contract documents and after final inspection.

15. RIGHTS OF WAY

The Standard Specification 107.12 shall hereby be modified to read as follows: The Contractor, at his own expense, is responsible for the acquisition of any necessary temporary easements for construction purposes which are required in addition to existing easements and/or rights of way secured by the City.

16. INTERPRETATION OF GENERAL CONDITIONS

Wherever in the General Conditions that the City is referred to it shall be understood that the City referred to is the City of Scottsdale.

17. DUST PREVENTION

The Contractor shall take whatever steps, procedures or means required to prevent abnormal dust conditions due to his construction operations in connection with this contract. The dust control measures shall be maintained at all times during construction of the project, to the satisfaction of the Engineer, in accordance with the requirements of the Maricopa County Health Department Air Pollution Control Regulations. This is not a pay item.

18. EXISTING UTILITIES TO BE RELOCATED

If any utility is relocated or rebuilt for the convenience of the Contractor, the expense shall be borne by the Contractor.

19. DAMAGED DOMESTIC WATER LINES

Any water lines damaged during construction shall be replaced at the Contractor's expense as per the requirements of the M.A.G. Specifications.

20. DAMAGED SEWER LINES

Any sanitary sewer lines damaged during construction shall be replaced by a Contractor properly licensed to install sanitary sewers. All work shall be done as per standard M.A.G. Specifications

21. EXISTING TRAFFIC AND STREET SIGNS AND TRAFFIC SIGNAL EQUIPMENT

The Contractor shall use due care when excavating at or near intersections where traffic signal underground conduit is located. The Contractor shall notify the Signal Engineer of the Traffic Engineering Division 24 hours in advance of any work at such intersections. The Contractor shall be responsible for the installation and maintenance of temporary overhead traffic

signal cable as specified by the Signal Engineer when underground conduit is to be severed by excavations at the intersection. At no charge, the Signal Engineer shall have all traffic signal underground conduit located, and he shall provide the necessary City technicians to assist the Contractor in the transfer of the wiring to the temporary cables installed by the Contractor. The Contractor shall provide an off-duty uniformed Police Officer to direct traffic while the traffic signal is turned off and the wiring is transferred. The Contractor shall be responsible as specified by the Signal Engineer for the repair and restoration of all traffic signal overhead and underground items that have been damaged or modified.

22. DUMPING AND DISPOSAL OF WASTE

The Contractor is responsible for the cost to dispose of all waste products including excess earth material which will not be incorporated into the work under this contract. The waste product referred to herein shall become the property of the Contractor.

23. EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this contract the Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin.

24. SUPERVISION BY CONTRACTOR

The CONTRACTOR will supervise and direct the WORK. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the WORK a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The Supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the work.

25. CHANGES IN THE WORK

The Capital Engineering Manager may at any time, as the need arises, order changes within the scope of the WORK without invalidating the AGREEMENT. If such changes increase or decrease the amount due under the CONTRACT DOCUMENTS, or in the time required for performance of the WORK, an equitable adjustment shall be authorized by CHANGE ORDER.

The ENGINEER, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK. The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER unless the CONTRACTOR believes that such FIELD ORDER entitles him to a change in CONTRACT PRICE or TIME, or both, in which event he shall give the ENGINEER WRITTEN NOTICE thereof within three (3) days after the receipt of the ordered change, and the CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

26. CHANGES IN CONTRACT PRICE

The CONTRACT PRICE may be changed only by a CHANGE ORDER. The value of any work covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by one or more of the following methods in the order of precedence listed below:

- a) Unit prices previously approved.
- b) An agreed lump sum.

An agreed lump sum price will be determined by issuance of a bulletin requesting a cost estimate for additional or deleted work for the project. The Contractor hereby agrees to execute and return the bulletin to the Owner seven (7) working days after the date of the bulletin. Non-compliance will result in the establishment of the "lump sum" cost solely by the Owner.

27. CONSTRUCTION STAKES

Survey stakes and marks required for the completion of the construction shown on the plans and described in these specifications will be furnished by Erikson & Salmon, Inc., Consulting Civil Engineers.

Construction stakes will be set one time only at no cost to the Contractor. The Contractor shall be held responsible for the preservation of all stakes and marks, and if, in the opinion of the Engineer, any of the survey stakes or marks have been carelessly or willfully destroyed or disturbed, the cost to the Owner for replacing them shall be charged to the Contractor and shall be deducted from the payment for the work.

28. TESTING OF MATERIALS

All tests shall be made and results certified by an independent laboratory approved by the Capital Engineering Manager. The Contractor shall pay for all tests required to certify the suitability of materials. The City of Scottsdale will arrange and pay for required construction tests on a one time basis. Additional tests or retests required as a result of initial test rejections or failures, will be paid for by the Contractor.

Rejected materials shall be immediately removed from the site and shall not be used in any form for any other part of the work.

29. METHOD OF MEASUREMENT AND PAYMENT FOR PAY ITEMS

Measurements and payment for all bid items in the PROPOSAL FORM shall be as described in the STANDARD SPECIFICATIONS, subject to the following:

- a) Payment for each item shall constitute payment in full for the furnishing of all excavation, back filling, materials, equipment, appurtenances, labor, plant and tools necessary to provide a complete finished, and serviceable project, as shown by the Plans and described in these Specifications. Each item shall be complete with all necessary connections, testing, and related work accomplished to provide for the satisfactory use and/or operation of the item.
- b) No additional payments will be made for incidental work related to any items unless specifically noted and called for in the Proposal. Payment will be made at the unit price or lump sum price bid in the Proposal.

- c) Measurement of the completed work will be made in place, with no allowance for waste, and as may be more particularly described in the description of the various items of work. Ten percent (10%) of the amount of each progress pay estimate shall be retained or bonds shall be posted in accordance with the H.B. 2188 until final acceptance of all work and approval of the final invoice by the City Inspector.

30. APPROVED EQUALS AND ADDITIONAL ENGINEERING COSTS

Plans and specifications may contain references to equipment and/or materials (patented or unpatented) or "approved equal(s)". Such references shall be regarded as establishing a standard of equality, finish, appearance, performance or as indicating a selection or design based upon compatibility with existing equipment, materials or details of construction inherent to the project design. Such references shall not be construed as limiting the selection to a specified item, source or design detail. The use of an alternate or substitute, item or source as an approved equal will be permitted, subject to the following procedure:

- 1) No consideration will be given a request for substitution prior to award of contract.
- 2) After award and to permit consideration and approval without delaying the work, the Contractor shall submit a written request for substitution to the Capital Engineering Manager. The request shall include all information necessary for proof of equality and suitability for substitution including benefits, engineering design and data (calculations) and/or detailed plan modifications which may be required by the substitution. The Contractor shall submit additional information and/or samples when required.
- 3) The Capital Engineering Manager or his representative, will evaluate the information submitted, perform tests when necessary and make comparisons.
- 4) The Capital Engineering Manager will then make the final decision and notify the Contractor in writing as to the acceptability of the proposed substitution.
- 5) In the event the Contractor, his suppliers or subcontractors provide equipment or materials different than that called for in the plans or specifications which result in additional engineering design, calculations or plan modifications, the cost of such work shall be paid for by the Contractor.

31. APPLICABLE IMPROVEMENT PLAN NOTES

In addition to the plan notes for all construction within Scottsdale public right-of-way and easements, the following shall apply

- 1) The contractor shall be responsible for the immediate repair and reporting of any damage to any traffic signal equipment. This shall include, but shall not be limited to, such items as: underground conduit, detectors, detector lead-in wiring, signal heads, signal poles, mast arms, cables, controller, and other signal-related equipment. Wire splicing will not be permitted. Modification of traffic signals for construction shall require advance design and approval prior to the start of construction. All materials and installations shall conform to

the latest Arizona Department of Transportation standard drawings and specifications for traffic signals, except as approved by the Traffic Engineering Manager.

- 2) The engineering designs on these plans are only approved by the City in scope and not in detail.
- 3) If construction quantities are shown on these plans, they are not verified by the City.
- 4) A representative of Field Engineering will inspect all work in the public right-of-way and in easements granted for public use. Field Engineering shall be notified 24 hours prior to starting of any work within the City of Scottsdale rights-of-way or easements (telephone 994-2558).
- 5) The contractor shall retain and update at least one (1) print set with "as-built" information for submission to the City of Scottsdale. In addition to showing "as-built" locations and elevations of the improvements constructed for the general public use (such as paving, manholes, culverts, sewer lines, etc.) these drawings must show the actual locations of the water and sewer service lines to all lots and parcels by the use of dimensions and/or stationing when these service lines are constructed as part of the project.
- 6) Upon satisfactory completion of the improvements in the public rights-of-way and easements and upon receipt by the City of the print set with the "as-built" location of improvements, the Field Engineering Manager will provide the contractor a letter indicating the work is complete and stating that the improvements are accepted by the City.
- 7) No water valve, sewer manhole or clean-out shall be left damaged or inaccessible for more than seven (7) working days. If deficiencies are not corrected within the prescribed time period, the necessary repairs will be effected by the City of Scottsdale at developer/owner expense.

In addition to the plan notes, for all paving improvements in the Scottsdale public right-of-way and easements, the following shall apply:

- 1) No pavement construction shall start until conflicting underground utility construction is completed.
- 2) The base course shall not be placed on subgrade until compaction tests have been completed and accepted by the Field Engineering Manager or his representative.
- 3) Where an existing pavement is to be widened or extended, the edges of the existing pavement shall be saw-cut to a true, regular line, cleaned of all foreign material, and painted with emulsified asphalt before the new pavement is placed adjacent to the existing pavement.
- 4) The exact point of matching termination and overlay, if necessary, shall be determined in the field by the Field Engineering Manager or his representative.

- 5) Wherever roadway improvements or widening requires the removal or relocation of pavement "striping," it shall be the responsibility of the contractor to provide a slurry seal overlay or other approved method of obliterating the existing striping in conformance with the "Manual on Uniform Traffic Control Devices" and a plan approved by the City of Scottsdale.
- 6) All manhole frames and covers, water valve boxes and similar installations shall be adjusted to finished grade upon completion of paving. The following are the water valve replacement requirements:
 - a. When a valve box is replaced, it shall be adjustable cast iron with pentagonally-bolted lids, MAG Standard Detail 391-1-C.
 - b. Existing type "A" or type "B" valve boxes located in areas which will remain unpaved when construction is completed may remain, but they must be adjusted to finished grade when grading is completed.
 - c. Existing type "A" valve boxes located in existing paved areas may remain, but they must be adjusted to finished grade when pavement work is completed.
 - d. Existing type "B" valve boxes located in existing paved areas must be removed and replaced with type "C" boxes.
 - e. Existing type "A" or type "B" valve boxes in unpaved areas which will be paved when construction is completed must be removed and replaced by type "C" valve boxes.
- 7) All street grades less than 0.4% shall be water tested in the presence of the Field Engineering Manager or his representative before final acceptance. Any areas not draining properly shall be removed and replaced at the contractor's expense.
- 8) The paving work is not complete until all survey monuments to be replaced have been replaced and all new monuments required by the construction plans have been installed.

In addition to the plan notes, for all construction on City of Phoenix water systems within the City of Scottsdale, the following shall apply:

- 1) Except for the need to follow requirements established by the City of Phoenix pertaining to work on its water systems, which may differ from Scottsdale's requirements, all other construction in the City of Scottsdale public right-of-way or in easements granted for public use must conform to the latest Maricopa Association of Governments (MAG) Uniform Standard Specifications and Uniform Standard Details for Public Works Construction, and the City of Scottsdale Standard Details - or as set forth elsewhere in the special provisions for this project.
- 2) The City of Phoenix, which is the owner of the water system, will inspect the bedding for the pipe, the laying of the pipe, and the initial backfill to one foot above the pipe. A representative of the City of Scottsdale's Field Engineering staff will inspect all other work in the public right-of-way and in easements. Field Engineering shall be notified 24 hours prior to starting of any work within the City of Scottsdale rights-of-way or easements (telephone 994-2558).

3) Fire hydrant installation requirements:

- a. All fire hydrants in the City of Scottsdale will have National Standard threads.
 - b. All fire hydrants will have one 4-1/2" pumper or steamer outlet and two 2-1/2" hose outlets.
 - c. The bottom flange of fire hydrant must be 3"[±] above the finished grade or sidewalk elevation.
 - d. The fire hydrant pumper (or steamer) outlet must face the street.
 - e. Required hydrants shall be installed and operable prior to footing inspections.
 - f. All hydrants in the City of Scottsdale shall be painted yellow.
 - g. If there is no sidewalk or if there is a landscaped space between the back of the curb and the sidewalk, the fire hydrant shall be installed so that the face of the pumper (or steamer) outlet is no greater than four feet back of curb. If there is a sidewalk immediately back of the curb, the fire hydrant shall be installed so that the face of the pumper (or steamer) outlet is one foot back of the sidewalk.
- 4) Water meters and waterline blow-offs shall not be constructed in driveways or sidewalks.
 - 5) All water taps or lines constructed under existing pavement shall be installed by underground boring unless otherwise approved by the Field Engineering Manager or his designated representative.
 - 6) All compaction within public right-of-way will be Type I unless otherwise noted.

SPECIAL PROVISIONSSUBSECTION 104.1.1 GENERAL: is modified to add:

All existing concrete or bituminous surfaced sidewalks, driveways and alleys which were necessarily disturbed by the operations of the contractor in accordance with the requirements of the plans or at the direction of the Engineer, shall be replaced. Private concrete or bituminous surfaced sidewalks and driveways which were necessarily disturbed by construction shall be removed to a distance required to maintain a slope as indicated on the plans or as directed by the Engineer and/or not to exceed a slope of one inch per foot for sidewalks and these materials shall be replaced. Payment for such work will be made under the respective pay items provided for in the contract.

SUBSECTION 104.1.3 CLEANUP AND DUST CONTROL: is modified to add:

At disposal sites other than City landfills, the contractor shall be responsible for all required dust control measures.

SUBSECTION 105.2 PLANS AND SHOP DRAWING is changed to read:

The contractor shall submit, for approval, a proposed schedule of shop drawings and product data submittals. This schedule will include concrete and asphalt concrete mix designs unless they are a previously approved supplier's design mix. The schedule will show the needed response date for each submittal and will indicate the relationship of the submittal to the project construction schedule.

The contractor shall submit four (4) copies of each shop drawing, product data or mix design to the Engineer for review. Each submittal shall be numbered sequentially and shall be submitted in a timely manner so as to cause no delay in the work schedule. The Contractor shall certify, by stamp or letter, that he has reviewed and approved the submittal and that it conforms to the requirements of the contract documents. If this certification is not included, the submittal will be returned without action.

At the time of each submittal, the Contractor shall define and delineate in writing, separate from the certification, any deviations from the contract documents. If the Engineer accepts this deviation, he will authorize the deviation by issuing a change order or if the deviation is minor by endorsement to the letter.

The Engineer will review and return the submittals in accordance with the previously established response date. The review will be only for conformance with the design concept of the work and for compliance with the information contained in the contract documents. The review of a specific item, as such, will not indicate review of the assembly in which the item functions. Review by the Engineer will not relieve the Contractor from responsibility for any errors or omissions in the submittals nor from his responsibility for complying with the contract documents. The only exception is deviations accepted in accordance with the preceding paragraph.

If the submittal is acceptable, one (1) copy stamped "Approved" will be returned to the contractor. The contractor shall submit five (5) additional copies to the Engineer.

If the Engineer determines that the submittal requires corrections or is to be rejected, one (1) copy stamped "Approved As Modified" or "Not Approved - Resubmit" will be returned to the contractor. The contractor will resubmit four (4) corrected or new copies.

The copy stamped "Approved" and returned to the contractor, will become a part of the contract documents and will be kept at the job site. Any work done prior to the receipt of this review will be at the contractor's risk and expense.

SUBSECTION 107.11 CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES: is modified to add:

The contractor shall assume full responsibility for all damage to all utilities, the locations of which have been made known to him due to his operations, and shall repair the damaged utilities as required herein, at his own expense.

SUBSECTION 109.5.1 EQUIPMENT is modified to read:

Unless a prior written agreement has been made, the Contracting Agency will not pay move-in/move-out costs and standby equipment rates.

SECTION 105.6 COOPERATION WITH UTILITIES:

The Contractor shall comply with the requirements of the ARS 40-360.21 through 20-360.29 in notification to the interested utility owners prior to the start of construction and shall ascertain the approximate locations of the various underground utilities shown on the plans, and as may be brought to his attention. The exact location of these underground utilities shall be determined by excavations made by the Contractor prior to any trenching operations.

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-----Blue Stake-----263-1100
Milly Franks-----835-4031

Salt River Project (Overhead Power)-----236-8888

Salt River Project (Underground Power)Blue Stake-----263-1100
Dave DeBenon-----236-2090

Southwest Gas-----Carroll Reynolds----866-4279
269-7761

Arcadia Water Company-----James Sullivan-----945-4621
945-8363

City of Scottsdale-----944-2356

SECTION 205 ROADWAY EXCAVATION:

Roadway excavation shall conform to Section 205 of the STANDARD SPECIFICATIONS except that roadway excavation is not a pay item, the cost thereof shall be included in the contract price bid for other related items.

SECTION 206 STRUCTURE EXCAVATION AND BACKFILL:

Structure excavation and backfill shall conform to Section 206 of the STANDARD SPECIFICATIONS except no direct payment will be made for this item. The cost of this item shall be included in the contract price bid for related items.

SECTIONS 205.7, 205.8, 210.4, 210.5, and 211.6 (STRUCTURE EXCAVATION, BORROW EXCAVATION) MODIFICATION OF:

No payment will be made for this work. All work, materials, tools, etc., necessary to complete this work will be considered incidental to the item(s) "Grading Under Pavement" contained within the Proposal and no additional consideration will be made.

SECTION 220 RIPRAP CONSTRUCTION:

The item 220-1 Grouted Riprap on this project shall conform to Section 703 and Subsections 220.5, 220.7, and 220.8 of the MAG STANDARD SPECIFICATIONS with the following amendments:

- (1) The grouted riprap must be placed in such manner that approximately the top one-third of the stone presents a natural appearance. The riprap shall have a total depth of at least six inches - of which a 5" layer of concrete shall be placed and then the riprap stone shall be placed either by hand or by some mechanical means.
- (2) The riprap shall be of the following gradation, reference to the 50 percent size (D_{50}), as specified on the plans:

<u>Size of stone</u>	<u>Percent of total weight smaller than the given size</u>
$3D_{50}$	100
$2D_{50}$	80
$1D_{50}$	50
$0.1D_{50}$ not to exceed	10

Each load of rock shall be reasonably well-graded from the smallest to the maximum size specified. Gradation of the rock being placed will be controlled by visual inspection. Stone smaller than the specified 10 percent size and spalls shall not be permitted in the amount exceeding 10 percent by weight of each load.

- (3) Measurement and Payment for this item shall be by the square yard in place, within the limits and dimensions shown on the plans.

SECTION 301 SUBGRADE PREPARATION:

The work under this item shall consist of shaping the roadway subgrades to the grades and cross section for the new paved roadway as shown on the plans and in accordance with Section 301 of the STANDARD SPECIFICATIONS.

Subgrade Preparation shall also include the preparation of subgrades to the required line and grades for the tapered part of the project beyond the Beginning and End of Project respectively, 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. The cost of furnishing and placing the Aggregate Base Materials will be paid for as specified under Description of Payment Items.

The existing subgrade shall be scarified, wetted and shaped to a minimum depth of 6 inches below subgrade elevation and compacted to a minimum of 95% of Standard Proctor density with soil moisture controlled within 3% of optimum moisture content.

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 contractor's grading operations will proceed in an orderly sequence and shall be followed directly with the placement of base materials. At no time shall the contractor's total grading operations precede the placement of base materials by more than 1200 feet without specific written approval of the Engineer. At the end of each day's operation, the first lift of base material shall have been placed to within a maximum distance of 300 feet behind the finished subgrade area. Drop-offs on opposite sides of the pavement at the same time will not be allowed.

When excavating for concrete work, such as curb and gutter and sidewalk, the contractor shall place the excavated material in uniform windrows. The windrows shall not interfere with property access and traffic flows on the streets.

SECTION 310 UNTREATED BASE:

Aggregate Base and Select Material shall be tested for adequacy in accordance with the STANDARD SPECIFICATIONS prior to placement.

SUBSECTION 310.1 DESCRIPTION:

Aggregate base and select material of the type specified on the plans shall be crushed aggregate, with gradation in accordance with Table 702, and shall be placed in conformance with Section 310 for Untreated Base.

SECTION 321 ASPHALT CONCRETE PAVEMENT:

The work under this item shall consist of furnishing and placing a plant mixed asphalt concrete road surfacing material to the compacted thickness shown on the plans for the roadway and in accordance with the STANDARD SPECIFICATIONS.

MISCELLANEOUS ASPHALT CONCRETE PAVEMENT:

Asphalt concrete shall be removed and replaced to match existing asphalt concrete frontage at back of new curb and gutter, as detailed and noted on the plans and as directed by the Engineer. Existing asphalt concrete shall be

trimmed and removed in accordance with Section 336.2.2. The new asphalt concrete shall be two inches of compacted, single course Type D-½ dense grade per Section 710.

SUBSECTION 321.2 MATERIALS AND MANUFACTURE:

Materials and manufacture shall conform with Sections 710 and 711 of the STANDARD SPECIFICATIONS for the type specified on plans and in the proposal.

Mineral Filler and Anti-Stripping Agent shall be either dry hydrated lime or portland cement, approximately 1.5 percent by weight of the mineral aggregate; and it shall be used as a mineral filler in all asphalt concrete pavements.

Fractured Faces of the mineral aggregate shall be at least 25%.

Asphalt to be mixed with the mineral aggregate shall be AR-40 or AC-20 Paving Asphalt.

Mix designs will be developed on the basis of the following criteria and tested in accordance with the following test methods:

<u>Criteria</u>	<u>Requirements</u>		<u>Arizona Test Method</u>
	<u>D½</u>	<u>B-1</u>	
Voids in mineral aggregate percent, range	15.5 - 18.5	15.5 - 18.5	815
Effective voids, percent, range	5 - 7	4 - 6	815
Voids filled, percent, range	62 - 75	62 - 75	815
Index of retained strength percent, minimum	40	40	802
Wet strength, PSI, minimum	150	150	802
Stability, pounds, minimum	2000	2000	815
Flow, inches, range	.08 - .16	.08 - .16	815

SUBSECTION 321.4 TACK COAT:

Tack Coat shall conform to Section 713 of the Standard Specifications except that the cost shall be included in the unit bid price for Items 321-1 and 321-3 Asphaltic Concrete Pavement, as specified in the Description of Payment Items Section

SUBSECTION 321.5.4 ASPHALT BASE AND SURFACE COURSE: is modified as follows:

Asphalt materials should be placed in lifts not exceeding 2" and compacted to a minimum of 95% of laboratory density.

SUBSECTION 321.5.4 ASPHALT BASE AND SURFACE COURSE: is modified to add:

The releasing agent, to prevent pick-up by roller wheels, shall be "Roller-Ease", Chevron Asphalt Company, "Unicut S", Union Oil Company or approved equal. The brand or type of releasing agent shall be submitted with the job-mix formula for approval. This is a "non-pay" item.

SECTION 336 PAVEMENT MATCHING AND SURFACE REPLACEMENT: 336.2.2 slurryseal

Items 336-1 through 336-2 of this project shall conform in their entirety to Section 336 of the MAG STANDARD SPECIFICATIONS.

SECTION 340 CONCRETE CURB, GUTTER, SIDEWALK, DRIVEWAY AND ALLEY ENTRANCE:

The work under this item shall consist of furnishing all labor, materials, and equipment necessary to construct concrete curb and gutter, valley gutters and aprons, driveway entrances, sidewalk, and concrete median nose paving of the types shown on the plans and as called for in the bidding schedule. All work shall comply with the applicable requirements of Section 340 of the STANDARD SPECIFICATIONS.

All concrete shall be Class B and shall conform to Section 725 of the STANDARD SPECIFICATIONS.

Sidewalk ramps shall be constructed in accordance with the Standard Details called out on the plans; the payment will be included in the bid items for "SIDEWALK", "DRIVEWAY ENTRANCES", and "CURB AND GUTTER" which shall include all costs of forming and finishing.

SUBSECTION 340.1 DESCRIPTION:

Add the following paragraph to read:

Driveway and sidewalk slab connections shall consist of constructing concrete driveway and sidewalk slab connections to match existing at locations shown on the plans or requested by the Engineer. The slab thickness shall conform to the applicable driveway or sidewalk detail.

SUBSECTION 340.3 CONSTRUCTION METHODS:

Change the 4th and 5th paragraph to read:

Contraction joints shall be constructed in accordance with the Standard Details and in a straight line and vertical plane perpendicular to the longitudinal line of the sidewalk or curb and gutter, except in cases of curved alignment when they will be constructed along the radial lines of the curb. They shall be constructed to a depth of 1- $\frac{1}{2}$ " at 10' intervals on all sidewalks regardless of the width. Unless an expansion joint is required, a contraction joint will coincide with each form-joint.

SECTION 345 ADJUSTING FRAMES, COVERS AND VALVE BOXES:

The work under this item shall consist of furnishing all labor, materials and equipment necessary to adjust frames, covers and valve boxes as shown on the plans and as called for in the bidding schedule. All work shall comply to the applicable requirements of Section 345 of the STANDARD SPECIFICATIONS.

New Type "C" box and cover shall be provided for all water valve box adjustments as called for on the plans and in accordance with STANDARD DETAIL 391-1.

SECTION 350 REMOVAL OF EXISTING IMPROVEMENTS:

The work under this item shall consist of the removal and disposal of any obstacle to construction whether shown on the plans or not, unless specifically called out on the plans to be removed or relocated by other agencies and shall be accomplished in accordance with Section 350 of the STANDARD SPECIFICATIONS.

SUBSECTION 350.3 MISCELLANEOUS REMOVAL AND OTHER WORK:

The work under Item 350-8, in addition to the items listed in the MAG STANDARD SPECIFICATIONS, shall include the following:

- (k) Lawn Restoration: Where new sidewalk or bike paths are constructed adjacent to grass covered yards, the contractor, after sidewalk construction is complete shall grade the area behind the sidewalk and re-seed with grass identical to the existing grass. Where existing grass cannot be seeded, it shall be restored with sod of the same type grass, in a method approved by the Engineer.
- (l) Encroachments Inside the Right-of-Way: The contractor shall notify property owners, who have encroaching walls, fences, planters, plants, bushes, small diameter trees, and other improvements in the right-of-way that interfere with construction, at least fourteen days before clearing is necessary. The contractor shall transplant all trees, plants, and bushes where indicated on the plans or directed by the Engineer. Any encroaching items not timely removed by the owners, shall be removed and disposed of by the contractor in accordance with the Contract Documents.
- (m) Restoration of Temporary Construction Easements: The contractor shall leave the easements in as good condition or better after work is completed. Special care must be taken to replace any asphalt, trees, sprinklers, lights, walls, fences, etc., which were disturbed as the result of construction. Where grass is located within the easement such as a lawn, the contractor shall remove the sod which would be in the path of any construction, store it, keep it moist and replace it immediately after construction is complete.
- (n) Any and all items not specifically set forth as a separate pay item.
- (o) Removal and replacement, in kind, of block wall and fencing to the left of Camelback Road Stations 12+65 to 13+05, 17+44 to 19+69, 20+65 to 21+45 and 70 to 90 feet left of Station 22+83.
- (p) Thickened pavement edge.
- (q) Sawcutting and matching existing pavements and curbs, gutters, etc.
- (r) Relocating positions of existing signs to be staked by the City Inspector.
- (s) Relocating positions of existing plants within the Right-of-Way to be staked by City Inspector.

SECTION 401 TRAFFIC CONTROL:

Item 401-1 Provide Traffic Control shall conform to the applicable paragraphs of Section 401 of the MAG STANDARD SPECIFICATIONS, the Scottsdale Traffic Control requirements, the City of Phoenix Traffic Barricade Manual, and these Special Provisions.

The contractor shall notify the inspector seven (7) days in advance of the time work will be started in areas requiring the rerouting of traffic, traffic lane striping, and removal of street signs. The foregoing shall apply to progressive modifications of traffic routings within an area in which work is in progress.

Whenever the contractor's operations create a condition hazardous to the public, he shall furnish such flagmen and guards as are necessary to give adequate warning to the public of any dangerous conditions. Flagmen and guards, while on duty and assigned to give warning, and safety devices shall conform to applicable city, county, and state requirements. Should the contractor appear to be neglectful or negligent in furnishing adequate warning and protection measures, the inspector may direct attention to the existence of a hazard and the necessary warning and protective measures shall be furnished and installed by the contractor without additional cost to the City. Should the inspector point out the inadequacy of warning and protective measures, such action of the inspector shall not relieve the contractor from any responsibility for public safety and abrogate his obligation to furnish and pay for those devices. The installation of any general illumination shall not relieve the contractor of his responsibility for furnishing and maintaining any protective facility. The contractor will develop routes for haul trucks on public streets which will be submitted in writing through the inspector to the City of Scottsdale, City Traffic Engineering Manager, for review and approval action. The submittal shall include, but not be limited to, the proposed travel direction, turn movements, hours of use, street sweeping, watering, and clean-up. All signs to be used on the job during periods of darkness shall be reflectorized. No work will be allowed before 7:00 A.M. or after 7:00 P.M. unless otherwise approved by the inspector. No utility relocation work that would obstruct the flow of traffic shall be done between the hours of 7:00 A.M. to 9:00 A.M. and 4:00 P.M. to 6:00 P.M.

The following shall be considered as Major Streets:

CAMELBACK ROAD
68th STREET

Two lanes of traffic on Major Streets shall be maintained open for traffic at all times. Other side streets may be closed temporarily with approval of the Capital Engineering Manager. The contractor shall supply pipe in specific lengths that will allow their installation while maintaining two lanes of traffic open.

Project advance warning signs shall be 48 inches in size and placed on channels 1000 feet and 500 feet prior to construction on all Major Streets.

Construction shall be posted at 25 MPH by the contractor throughout the project where traffic is allowed.

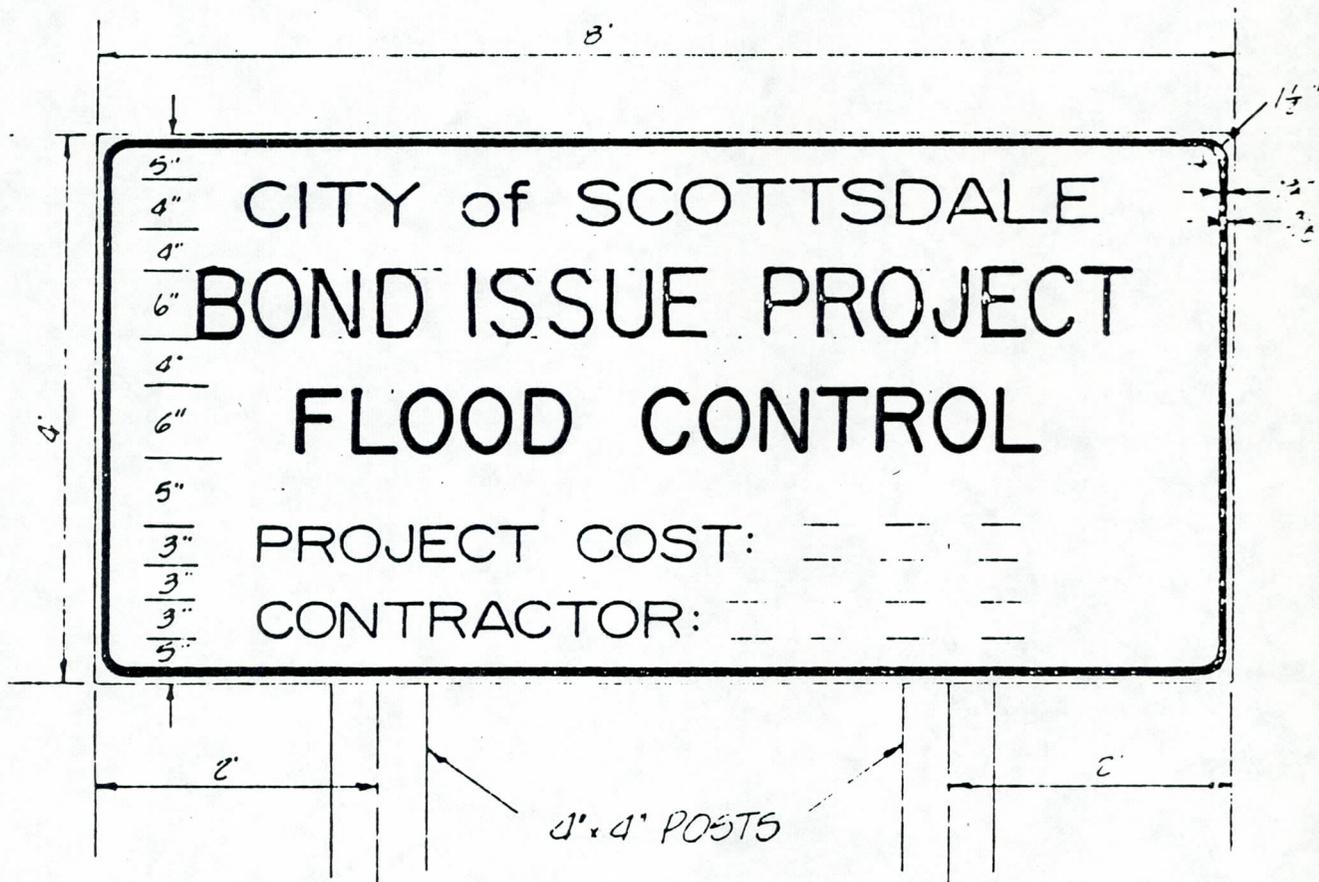
Construction at the intersection of Camelback and 68th Street shall be scheduled in such manner that will minimize the time the intersection remains unpaved, but not longer than 15 days from commencement to completion.

Local access shall be maintained at all driveways throughout the construction period.

The use of an uniformed police officer means an off-duty City of Scottsdale Officer paid by the Contractor at the rate of \$13.00 per hour.

Item 401-2, Provide Project Signs, shall conform to the enclosed sketch and Section 530 of the STANDARD SPECIFICATIONS.

Payment for this work will be paid for at the price per unit, which shall be full compensation for the item complete as described herein.



SIGNS SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE IN PLACE PRIOR TO THE START OF WORK.

POSTS SHALL BE ANCHORED AT LEAST TWO FEET INTO THE GROUND WITH THE BOTTOM OF THE SIGN A MINIMUM OF FOUR FEET ABOVE GROUND.

SIGNS SHALL BE PLACED SO AS TO BE VISIBLE TO MOTORISTS AND SHALL BE KEPT CLEAN AT ALL TIMES

SIGN COLORS SHALL BE WHITE LETTERS ON BLUE GROUND, PER FHWA STANDARDS.

ALL LETTERS & NUMBERS SHALL BE SERIES "C". ALL LETTERS & NUMBERS AND ALL SPACING SHALL CONFORM TO FHWA STANDARDS.

SECTION 405 MONUMENTS:

The items 405-1 and 405-2 on this project shall conform in their entirety to Section 405 of the MAG STANDARD SPECIFICATIONS.

SECTION 505 CONCRETE STRUCTURES:

The work under Items 505-1 through 505-19 shall consist of constructing catch basins, headwalls, and special curb openings at the locations as shown on the project plans.

All work shall fully comply with the applicable requirements of Section 505 of the MAG STANDARD SPECIFICATIONS and Section 503 of the ADOT STANDARD SPECIFICATIONS.

Item 505-15 is an alternate to the catch basin shown on the project drawings to the left of Camelback Road Sta. 18+77 and may be ultimately substituted for the latter along with modifications to various other associated pipe and catch basin quantities.

Payment for Items 505-16 and 505-17 shall include the access barrier gates, labor and other items necessary for the complete installation.

Payment for the special catch basin to the left of Camelback Road Sta. 21+05 shall include over-excavation of a trench to the south and east of the site, as may be required to relocate the existing telephone ducts around the new catch basin installation.

Payment for the catch basins to the left of Lafayette Boulevard Sta. 9+90.5 to 19+52 shall include over-excavation of each site, as may be required to relocate the existing ducts around each installation, and/or providing a sleeve for the ducts which will be cast monolithically with the walls of the catch basin, or catch basins.

SECTION 530 PAINTING:

Painting as required on barricades, catch basins, and elsewhere shall fully conform to Section 530 of the STANDARD SPECIFICATIONS. No direct payment will be made for painting or surface preparation, the cost thereof to be included in the item furnished.

SECTION 610 WATER LINE CONSTRUCTION:

Items 610-1 and 610-2 shall conform to Section 610 of the MAG STANDARD SPECIFICATIONS as supplemented by the City Of Scottsdale. Only the standard plan sheet notes applicable to this project are listed below.

IMPROVEMENT PLAN NOTES APPLICABLE TO CONSTRUCTION IN THE CITY OF SCOTTSDALE WATER SYSTEM, REVISED DECEMBER, 1982

(2) Water valve box installation and adjustment requirements:

- a. All new valve boxes shall be adjustable cast iron with pentagonally bolted lids, MAG Det. 391-1-C.
- f. All frames, covers and valve boxes shall be adjusted to finished grade upon completion of paving or related construction.

- (7) Water lines shall be disinfected in strict conformance with MAG Standard Specification 611.9. MAG 611.9 is herewith amended as follows:

"Dry powdered calcium-hypochlorite compounds shall not be placed within pipelines during construction."

- (8) Notify the Field Engineering representative by telephone (994-2558) that you are ready to have samples taken to determine whether disinfecting has been adequate. The samples are collected by the Municipal Utilities Division on Mondays, Tuesdays and Wednesdays only.
- (9c) Unusual Conditions: Where conditions prevent the minimum horizontal and vertical separation set forth above, both the water main and sewer shall be constructed of mechanical joint cast iron pipe, or approved equal, and pressure tested to assure water tightness before backfilling. Where a water main must cross under a sewer, a vertical separation of at least 24 inches between the bottom of the sewer and the top of the water main shall be maintained, under all conditions, with adequate support provided for the sewer lines to prevent them from settling on and breaking the water main.
- (11) All compaction within public right-of-way will be Type 1, unless otherwise noted.
- (12) Thrust blocks and anchor blocks must be provided for tees, bends, valves and pipe ends in accordance with MAG Std. Det. 380 and 381.
- (16) An alternate to MAG iron pipe fittings conforming to AWWA C110 is the compact ductile iron Class 350 mechanical joint fittings from 3" to 12" supplied by NAPPCO, Inc. in conformance with proposed spec AWWA C153/A21.53 - 84. The proposed spec is available from Carmco Sales, Inc., Tempe, Arizona, telephone: 968-4724.

SECTION 615 SEWER LINE CONSTRUCTION:

Item 615-1 shall conform to Section 615 of the MAG STANDARD SPECIFICATIONS as supplemented by the City of Scottsdale. Only the standard plan sheet notes applicable to this project are listed below.

IMPROVEMENT PLAN NOTES APPLICABLE TO CONSTRUCTION ON THE CITY OF SCOTTSDALE SEWER SYSTEM, REVISED OCTOBER, 1983.

- (3) No completed sanitary sewer lines shall be backfilled until inspected and approved by the City of Scottsdale Field Engineering Manager or his representative.
- (4) All backfill compaction will be Type 1.
- (5) All manholes shall be adjusted to finished grade upon completion of paving or related construction.

SECTION 618 STORM DRAIN CONSTRUCTION WITH CONCRETE PIPE:SECTION 620 CAST-IN-PLACE CONCRETE PIPE:SECTION 621 CORRUGATED METAL PIPE AND ARCHES:PIPE MATERIALS

618.1 The Contractor shall have the option of installing either round or elliptical reinforced concrete pipe, non-reinforced concrete pipe, cast-in place concrete pipe, smooth metal lined corrugated metal pipe, concrete lined corrugated metal pipe as specified, where storm drains are called for on the plans subject to the provisions of MAG SPECIFICATION 615, 618, 620, 621, 735 and 736 including amendments hereinafter outlined in these SPECIAL PROVISIONS. All pipe, in order to be considered for installation, shall have a minimum service life of 70 years as documented by the Contractor and approved by the engineer.

618.2 CONDUIT DESIGN CRITERIA

Conduit used in this project shall be designed in accordance with accepted structural design methods and procedures. All conduit under pavement shall be designed to be equivalent to the minimum equivalent roundpipe D-load, using an H-20 highway live loading. Conduit shall meet the full-flow (not surcharged) capacity of circular same size pipe, using Manning's $n=0.012$. If non-reinforced concrete pipe is used, it shall be designed and tested to meet an ultimate loading 50% greater than the "0.01 D-load". It shall be manufactured to the requirements of ASTM C-14 (except Table 1), and except that reinforcing shall be required in the bell and spigot ends of the pipe. Cast-in-place pipe shall be designed in accordance with Section 620 of these SPECIAL PROVISIONS. Elliptical conduit shall meet ASTM C-507-74. CMP shall meet Section 621 or 621A of the SPECIAL PROVISIONS. Under pavement criteria applies to conduit under the City streets and future pavement widths. Equivalent round pipe D-load using a dead load calculated at 140 lbs/cu. ft. shall be used for the strength criteria for conduit not under pavement. If pre-cast concrete pipe is used, Class II strength shall be required whenever pipe is not under pavement.

618.3 Jointing: All precast conduit shall be self-centering with joints mortar grouted on the inside of the conduit. Outside grouting will not be required. CMP jointing shall be in accordance with Section 621.4 or 621A.4 of the SPECIAL PROVISIONS.

618.4 Shop Drawings: The various conduit materials may require minor changes in details other than indicated on the drawings. It shall be the responsibility of the Contractor at no cost to the City to prepare shop drawings of details of construction, should the conduit material proposed by the Contractor require modification of details shown on the plans. The shop drawings shall be submitted to the design engineer for approval two weeks prior to the start of construction.

620 CAST-IN-PLACE CONCRETE PIPE

620.1 This product is to conform to Section 620 of the STANDARD SPECIFICATIONS except as amended by this provision. Section 620.2.4 should read slump not less than 1.5 inches nor more than 3 inches. Section 620.3.2 amend paragraph (B)-(2) to read 1/12 of the I.D. plus 1/2 inch.

620.2 Design Justification:

The Contractor or his subcontractor shall provide detailed design calculations supporting the minimum design criteria called for in Section 618.2 of these Special Provisions. The design shall follow the requirements of A.C.I. 346-70, except section 9.6, which shall be deleted.

621 CORRUGATED METAL PIPE - SMOOTH METAL LINED.

621.1 General: Corrugated pipe shall comply to MAG Standard Specification 621 and the supplemental provisions of these Special Provisions. The pipe shall be 3 x 1 corrugations.

621.2 Materials: The thickness of the corrugated pipe shall be a minimum of 0.079 inches and the thickness of the smooth metal liner shall be a minimum of 0.052 inches in order to meet the requirements for a 70-year design life using Figure 5-4, Chart for Estimating Average Life of Plain Galvanized Culverts, page 238, American Iron and Steel Institute Handbook of Steel Drainage & Highway Construction Products, Third Edition 1983. The Soil pH and resistivity values used to select the minimum thickness of the pipe and the liner were 8.4 and 1200 ohm cm respectively. A 20-year extension of the service life that was determined on the AISI Handbook Chart was allowed because of the bitumastic coating required in these Special Provisions section 621.3. Corrugated steel manholes will be allowed with a minimum thickness of 0.079 inches. Structural design for H-20 loading is required for the pipe and manholes. The contractor shall certify that the pipe backfill has a pH over 7.3 and resistivity greater than 1200 ohm cm.

621-3 Coatings: Smooth metal lined corrugated pipe shall be provided with a bitumastic coating on the inside and outside in accordance with the requirements of AASHTO M-190. Minimum coating thickness shall be 0.05 inches. At the end of pipe joints, voids between the outer shell and inner liner shall be plugged solid with coating material a minimum of six inches from the pipe end, unless the ends are flanged prior to asphalt coating.

621-4 Jointing: Pipe shall be laid with the separate sections jointed together in such a manner that the joint space shall not exceed one-half inch. Once couplings are installed, the inside joint shall be filled to the springline with appropriate compound approved by the engineer.

621A CORRUGATED METAL PIPE - CONCRETE LINED

621A.1 General: Corrugated pipe shall comply to MAG Standard Specification 621 and the supplemental pipe thickness requirements in the Special Provisions Section 621.2.

621A.2 Materials: Section 621.2 of these special provisions contain the information upon which the materials must comply. The requirement for 3 x 1 corrugations, 0.079 inch thickness, 0.05 inch coating and certification of backfill material also applies to this pipe alternative.

621A.3 Concrete Lining: Manufacturer's standard certificate of compliance that the concrete lining meets the following specifications will be required.

- (a) Composition - Concrete for the lining shall be composed of cement, fine aggregate, and water that are well mixed and of such consistency as to produce a dense, homogenous, nonsegregated lining.
- (b) Cement - Portland cement shall conform to the requirements of AASHTO M 85.
- (c) Aggregates - Aggregates shall conform to AASHTO M 6 except that the requirements for gradation and uniformity of gradation shall not apply.
- (d) Mixture - The aggregates shall be sized, graded, proportioned, and thoroughly mixed with such proportions of cement and water as will produce a homogenous concrete mixture of such quality that the pipe will conform to the design requirements of this specification. In no case, however, shall the proportions of portland cement, blended cement or portland cement plus pozzolanic admixture be less than 470 lb/cu. Yd. of concrete.
- (e) Thickness - The lining shall have a minimum thickness of 1/8" above the crest of the corrugations.
- (f) Lining Procedure - The lining shall be plant applied by a machine traveling through a stationary pipe. The rate of travel of the machine and the rate of concrete placement shall be mechanically regulated so as to produce a homogenous nonsegregated lining throughout.
- (g) Surface Finish - The lining machine shall also mechanically trowel the concrete lining as the unit moves through the pipe.

621A.4 Jointing: Pipe shall be laid with the separate sections joined together in such a manner that the joint space shall not exceed 1/2". Each piece of pipe shall have at least 2 annualr corrugations in the end and be connected by a HUGGER type band 10½" wide with solid O-ring gaskets.

621B CORRUGATED METAL PIPE - BITUMINOUS LINED

- 621B.1 General: Corrugated pipe shall comply to MAG Standard Specification 621 and the supplemental requirements in the Special Provisions Section 621.2.
- 621B.2 Materials: Section 621.2 of these special provisions contain the information upon which the materials must comply. The requirement for 3 x 1 corrugations, 0.079 inch thickness and certification of backfill material also applies to this pipe alternative.
- 621B.3 Bituminous Lining: Manufacturer's certificate of compliance that the bituminous lining meets the MAG Standard Specifications will be required.
- 621B.4 Jointing: Pipe shall be laid with the separate sections jointed together in such manner that the joint space shall not exceed one-half inch. Once couplings are installed, the inside joint shall be filled to the springline with an appropriate compound approved by the engineer.
- 621.5, Measurement: Measurement for Item 621-17, 81" X 59" Corrugated Steel Pipe Arch, will be the number of lineal feet of pipe measured horizontally through the end of the transition sections at the point of juncture with the 72" diameter storm drain.
- 621A.5 and 621B.5

SECTION 623 PIPE COLLARS:

The work under items 623-3, 623-8 and 623-14 consists of furnishing all materials and constructing pipe collars at the locations shown on the project plans, or where directed by the Engineer, in accordance with MAG STANDARD DETAIL 505.

Payment for this work will be made at the contract price for items 623-3, 623-8 and 623-14, which price shall be full compensation for the items complete in place.

Payment for the work related to the concrete encasement and forming special junction structures, Detail 274 Modified on the project plans, will be included in the cost of installing the associated sections of storm drain pipe.

SECTION 625 MANHOLE CONSTRUCTION AND DROP SEWER CONNECTIONS:

Items 625-1, 625-2, 625-3 and 625-4 on this project shall conform in their entirety to Section 625 of the MAG STANDARD SPECIFICATIONS.

Item 625-5 shall consist of a cast-in-place reinforced concrete chamber with manhole and steps for access constructed in accordance with the details and at the location shown on the project plans.

All concrete used in the structure shall be class "A" ($f'_c=3000$ psi) per Section 725 of the MAG STANDARD SPECIFICATIONS and all reinforcing steel shall be per Section 727 of the STANDARD SPECIFICATIONS.

The invert channel shall be formed of mortar and be smooth and semicircular in shape, conforming to the insides of the adjacent storm drain sections. Mortar shall conform to the requirements of Section 776 of the STANDARD SPECIFICATIONS.

The access opening shall be a MAG STANDARD DETAIL 522 with MAG STANDARD DETAIL 423 and 424 Frame and Cover which shall conform to Section 625 of the STANDARD SPECIFICATIONS.

Access steps shall be MAG STANDARD DETAIL 428 and shall conform to Sections 625 and 787 of the STANDARD SPECIFICATIONS.

Payment for this work will be at the contract lump sum price for item 625-5 installed in place and shall include all concrete, reinforcing steel, manhole frame, cover, and steps, as required, excavation, backfill, compaction, sanitary sewer encasement, labor and other items necessary for the complete installation.

SECTION 795 LANDSCAPE MATERIAL:

Item 795-1 shall conform to Section 795 of the MAG Standard Specifications with the following amendment:

Payment for this work shall be at the contract unit price each for Item 795-1, Install ~~Mulberry Tree~~, complete in place of the size and location shown on the contract drawings. *Evergreen Elm*

Item 795-2 shall also conform to Section 795 of the MAG Standard Specifications with the following amendments:

- (1) The contractor and/or the supplier of the irrigation system material shall submit to the inspector for approval a design for the irrigation system two (2) weeks prior to the beginning of its installation. There is presently available inside the park area a 2" water line with meter which may be used for the irrigation system.
- (2) Payment for this work shall be a the lump sum price for Item 795-2, Provide Park Landscaping, complete in place, including removing existing trees, excavating the detention basin, providing topsoil, soil fertilizing material, soil conditioners. seeds, sod, design and installation of irrigation system with sprinkler and/or bubbler system with vacuum breaker, backfill, labor, and other items necessary for the complete installation.

Item 795-~~2~~³ shall also conform to Section 795 of the MAG Standard Specifications with the following amendment:

Payment for this work will be made at the contract lump sum price for item 795-~~2~~³, Provide Median Landscaping, installed in place and shall include all vegetation and irrigation systems, as shown on the contract drawings, plus all excavation, backfill, compaction, labor and other items necessary for the complete installation.

BID CALL # 85-165

PROPOSAL

CITY OF SCOTTSDALE, ARIZONA

DESIGN SERVICES

PROPOSAL TO THE CITY OF SCOTTSDALE:

In compliance with the Advertisement for Bids, by the Purchasing Director: The undersigned bidder

Having examined the contract documents, site of work, and being familiar with the conditions to be met, hereby submits the following Proposal for furnishing the material, equipment, labor and everything necessary for the completion of the work listed and agrees to execute the contract documents and furnish the required bonds and Certificatres of Insurance for the completion of said work, at the locations and for the prices set forth hereinafter.

Understands that construction of this project shall be in accordance with all applicable Uniform Standard Specifications and Standard Details except as otherwise required by the Project Plans and Special Provisions.

Understands that his proposal shall be submitted with a proposal guarantee of cash, certified check cashier's check or surety bond for an amount not less than (10%) Ten Percent of the amount bid.

Agrees that upon receipts of Notice of Award, from the City of Scottsdale, he will execute the contract documents.

Work shall be completed within two hundred and fourty(240)alendar days, beginning with the day following the starting date specified in the Notice to Proceed. The time allowed for completion of the work includes lead time for obtaining the necessary material and/or equipment.

The bidder hereby acknowledges receipt of and agrees his proposal is based on the following Addendum.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOU
220-1	304	S.Y.	Grouted Riprap			
301-1	2,112	S.Y.	Subgrade Preparation			
321-1	337	S.Y.	2" A.C. Over 6" A.B.C. (D/W Connections)			
321-2	145	S.Y.	4" A.C. Over 9" A.B.C.			
321-3	2,112	S.Y.	4" A.C. Over 10" A.B.C.			
336-1	24	S.Y.	Sawcut & Remove Asphaltic Pavement			
336-2	3,822	S.Y.	Type "A" Pavement Replacement			
336-3	483	S.Y.	Type "B" Pavement Replacement			
340-1	1,653	L.F.	Curb & Gutter, MAG 220-A (incl. transitions)			
340-3	2,234	S.F.	Concrete Sidewalk, MAG Detail 230			
340-4	350	S.F.	Driveway Entrance, MAG Detail 250			

CONTRACTOR'S NAME _____

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
340-5	12	L.F.	Replace Curb & Gutter (In Kind)			
340-6	48	S.F.	Replace Driveway Entrance (In Kind)			
340-7	154	S.F.	Concrete Median Nose Paving			
345-1	3	Each	Adjust Manhole Frame & Cover, MAG Detail 422			
350-1	141	L.F.	Remove Pipe, Various Sizes			
350-2	3	Each	Remove Concrete Catch Basin			
350-3	1	Each	Remove Concrete Headwall			
350-4	255	L.F.	Remove Curb & Gutter			
350-5	1,250	S.F.	Remove Sidewalk			
350-6	1,082	L.F.	Sawcut and Remove Curb or Curb & Gutter			
350-7	1,907	S.F.	Sawcut and Remove S/W, D/W Entr, Apron & V.G.			

CONTRACTOR'S NAME _____

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
350-8	1	L.S.	Miscellaneous Removal & Other Work			
401-1	1	L.S.	Provide Traffic Control			
401-2	2	Each	Provide Project Signs			
405-1	3	Each	Survey Marker, MAG Det. 120-1, Type "A"			
405-2	6	Each	Survey Marker, MAG Det. 120-1; Type "B"			
505-1	2	Each	Catch Basin, Type "M-1", L=17', Phx. Det. P-1569			
505-2	1	Each	Catch Basin, Type "M-2", L=17', Phx. Det. P-1569			
505-3	1	Each	Catch Basin, Type "M" Mod., L=10'			
505-4	1	Each	Catch Basin, Type "M" Mod., L=17'			
505-5	3	Each	Catch Basin, Type "N" Single, Phx. Det. P-1570			
505-6	7	Each	Catch Basin, Type "N" Triple, Phx. Det. P-1570			

CONTRACTOR'S NAME _____

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
505-7	1	Each	Special Catch Basin, Type "K", L=12'			
505-8	1	Each	Special Catch Basin, Type "R", L=6'			
505-9	1	Each	Special Catch Basin, Type "R", L=17', Double			
505-10	1	Each	4'X 24' Special Catch Basin, Type VI			
505-11	1	Each	4'X 39' Special Catch Basin, Type VI			
505-12	1	Each	4'X 33' Special Catch Basin, Type VII			
505-13	1	Each	4'X 46' Special Catch Basin, Type VII			
505-14	2	Each	4'X 66' Special Catch Basin, Type VII			
505-16	1	Each	Headwall (72" Outlet), ADOT Std. C-14.20			
505-17	1	Each	<i>Outlet per plans</i> Headwall (78" Inlet), ADOT Std. C-14.20			
505-18	1	Each	Special Curb Opening & Scupper, L=50'			

CONTRACTOR'S NAME _____

Project No. 08944

PROPOSAL

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
505-19	1	Each	Special Curb Opening & Scupper, L=70'			
610-1	2	Each	Relocate 8" Waterline, MAG Detail 370			
610-2	2	Each	Relocate 12" Waterline, MAG Detail 370			
615-1	63	L.F.	8" V.C. Pipe			
618-1	80	L.F.	15" Pipe			
618-2	37	L.F.	18" Pipe			
618-3	72	L.F.	21" Pipe			
618-4	329	L.F.	24" Pipe			
618-6	42	L.F.	30" Pipe			
618-8	372	L.F.	36" Pipe			

CONTRACTOR'S NAME _____

Project No. 08944

PROPOSAL

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
618-9	656	L.F.	42" Pipe			
618-10	240	L.F.	48" Pipe			
618-12	1,385	L.F.	54" Pipe			
618-13	310	L.F.	60" Pipe			
618-15	2,410	L.F.	72" Pipe			
621-8	64	L.F.	36" Corrugated Steel Pipe			
621-15	218	L.F.	72" Corrugated Steel Pipe			
621-16	130	L.F.	78" Corrugated Steel Pipe			
621-17	40	L.F.	81"X 59" Corrugated Steel Pipe Arch			
623-3	1	Each	21" Pipe Collar, MAG Detail 505			
623-8	2	Each	36" Pipe Collar, MAG Detail 505			
623-14	1	Each	72" Pipe Collar, MAG Detail 505			

CONTRACTOR'S NAME _____

Project No. 08944

PROPOSAL

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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT COST IN FIGURES	UNIT COST IN WRITING	AMOUNT
625-1	3	Each	Storm Drain M.H., MAG Details 520 & 522			
625-2	1	Each	Storm Drain M.H., MAG Details 521 & 522			
625-3	3	Each	Storm Drain M.H., Phx. Det.P-1560 & MAG Det.522			
625-4	2	Each	San. Sewer M.H., MAG Det.420 w/Drop Connection			
625-5	1	Each	Special Junct. Struct. w/M.H.			
795-1	8	Each	Install Mulberry Tree <i>Evergreen Elm</i>			
795-2	1	L.S.	Provide Park Landscaping			
795-3	1	L.S.	Provide Median Landscaping			

TOTAL BID _____ DOLLARS

CONTRACTOR'S NAME _____

_____ CENTS

\$ _____

BID CALL #85- 165

PROPOSAL

THIS PROPOSAL IS SUBMITTED BY _____
a corporation organized under the laws of the State of _____
a partnership consisting of _____
or individual trading as _____
of the City of _____

By submitting this proposal I (or we) hereby agree to enter into the Contract included in the bid documents and I (or we) further agree that this proposal incorporates by reference to the same extent as if set forth herein in full all of the terms and conditions contained in said bid documents indentified as BID CALL NO. 85-165 , PROJECT NO. 08944 , including Plans, Standard Specifications and Details, Project Manuals, Special Provisions, Addenda, if any, Performance Bond, Payment Bond, and Certificate of Insurance.

Respectfully submitted,

FIRM: _____

ADDRESS: _____

TEL. NO: _____

BY: _____
OFFICER AND TITLE (SEAL)

DATE: _____

ATTEST:

OFFICER AND TITLE

WITNESS: IF BIDDER IS AN INDIVIDUAL

NOTICE OF AWARD

TO _____

BID CALL NO.85-165

PROJECT DESCRIPTION:

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated _____, 198 and Information for Bidders.

You are hereby notified that your BID has been accepted by the City Council on _____ for items in the amount of \$ _____. You are required by the Information for Bidders to execute the Agreement and furnish the required Contractor's Performance Bond and Payment within ten (10) days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said bonds within ten (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your Bid Bond. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of the NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 198 .

CITY OF SCOTTSDALE

BY: _____

ACCEPTANCE OF NOTICE:

TITLE: _____

Receipt of the above NOTICE OF AWARD is hereby acknowledged.

BY: _____

TITLE: _____

Subscribed and sworn to before me this _____ day of _____ 198 .

NOTARY PUBLIC

My Commission Expires

NOTICE TO PROCEED

BID CALL NO. 85-165

TO: _____

DATE: _____

PROJECT:

You are hereby notified to commence work in accordance with the Agreement dated _____, 198 , on _____, 198 and you are to complete the WORK within _____ consecutive calendar days thereafter. The date of completion of all WORK is therefore _____, 198 . Official time extensions thereto shall be considered and authorized in strict conformance with the applicable General Conditions of the Standard Specifications.

CITY OF SCOTTSDALE

BY: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged.

BY: _____

TITLE: _____

Subscribed and sworn to before me this _____ day of _____, 198

NOTARY PUBLIC

My Commission Expires

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
 _____, as Principal, and _____
 _____, as Surety, are held and firmly bound
 unto the City of Scottsdale in the penal sum of _____
 Dollars (\$ _____) lawful money of the United States of America, to
 be paid to the order of the City of Scottsdale, for which payment, well and
 truly to be made, we bind ourselves, our successors and assigns, signed with
 our seals and dated _____, 19 .

The conditions of the above obligation are such that hereas the City Council
 of the City of Scottsdale, on the _____ day of _____, 19
 did order the following works to be done, to wit:

PROJECT NO. _____

WHEREAS, _____, the principal herein in answer to the
 Notice Inviting Proposals or bids issued by the City of Scottsdale, put in
 its bid for the making of said improvements.

NOW THEREFORE, if the bid of _____, as
 aforesaid to be accepted by the City Council of the City of Scottsdale,
 and _____ shall enter into a contract to make
 said improvements at the price specified in its bid, then this obligation to

(Cont'd)

be void of no effect, otherwise to remain in full force and virtue.

ATTEST:

ATTORNEY IN FACT

PRINCIPAL _____ (SEAL)

BY: _____

SURETY

BY: _____

AGENCY OF RECORD

AGENCY ADDRESS

CONTRACT

THIS AGREEMENT, made and entered into this _____ day
of _____, 19__ by and between _____

of the City of _____, County of _____

and State of _____, party of the first part
hereinafter designated the CONTRACTOR, and the City of Scottsdale, a
municipal corporation, organized and existing under and by virtue of the
laws of the State of Arizona, 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
provided, and of the other covenants and agreements herein contained and
under the penalties expression in the bonds provided, hereby agrees, for
himself, his heirs, executors, administrators, successors, and assigns 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 Bid Call No. 85-165, Project No. 08944,
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: Bid Call No. 85-165, Project No. 08944,
Plans, Standard Specifications and Details, Project Manuals, Special
Provisions, Addendums, if any, and Contractor's Proposal, as accepted by the
Mayor and Council per Council Minutes of _____, 19__.
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
form.

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 and/or lump sum 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) indential 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.

ATTEST:

(CONTRACTOR - PARTY OF THE FIRST PART)

BY: _____
WITNESS: IF CONTRACTOR IS INDIVIDUAL NAME AND TITLE
(CORPORATE SEAL)

CITY OF SCOTTSDALE, A MUNICIPAL CORPORATION
(OWNER - PARTY OF THE SECOND PART)

ATTEST:
Roy R. Pederson, CITY CLERK

BY: _____ BY: _____
HERBERT R. DRINKWATER, MAYOR BETTY WARREN, DEPUTY CITY CLERK

ADMINISTRATIVE RESPONSIBILITIES: APPROVED AS TO FORM:

CITY ATTORNEY

RECOMMENDED FOR APPROVAL: INSURANCE APPROVED BY:

DIRECTOR OF RISK MANAGEMENT

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 law 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 City
of _____ and 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
City of _____, 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 and 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.

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 the _____ day of _____, 19

PRINCIPAL _____

BY _____

SURETY _____ (SEAL)

AGENCY OF RECORD _____

AGENCY ADDRESS _____

LABOR AND MATERIALS BOND

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 City
of _____, 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 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 the _____ day of _____, 19

PRINCIPAL

BY

SURETY

(SEAL)

AGENCY OF RECORD

AGENCY ADDRESS

NAME AND ADDRESS OF INSURANCE AGENCY	INS. COMPANIES AFFORDING COVERAGES
	Company Letter A
	Company Letter B
NAME AND ADDRESS OF INSURED	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	EXP. DATE	LIABILITY LIMITS/\$1000 ea MINIMUM	occurrence
	<input type="checkbox"/> COMPREHENSIVE GENERAL LIABILITY FORM <input type="checkbox"/> PREMISES OPERATIONS CONTRACTUAL <input type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input type="checkbox"/> EXPLOSION & COLLAPSE <input type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input type="checkbox"/> UNDERGROUND HAZARD <input type="checkbox"/> INDEPENDENT CONTRACTORS <input type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person each occurrence PROPERTY DAMAGE OR BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$5000
	<input type="checkbox"/> AUTOMOBILE LIABILITY			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS LIABILITY			STATUTORY each accident	\$100
	<input type="checkbox"/> OTHER				

When the project includes construction of a new or modification of an existing City building or structure a course of construction policy covering the perils of fire, extended coverage and vandalism and malicious mischief in the amount of the contract (less landscaping) shall be provided with the City of Scottsdale named therein as a "Loss Payee" and the insurer shall waive subrogation rights against the City of Scottsdale.

The City of Scottsdale is added as an additional insured as respects work done for the City by the named insured or if required by City Ordinance. It is agreed that any insurance maintained by the City of Scottsdale may only apply in excess of the coverages and limits of insurance available from other sources. It is further agreed that no policy shall expire, be cancelled or materially changed without (15) fifteen days written notice to the City. THIS CERTIFICATE IS NOT VALID UNLESS COUNTERSIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE INSURANCE CO.

NAME AND ADDRESS OF CERTIFICATE HOLDER
 CITY OF SCOTTSDALE
 3939 CIVIC CENTER PLAZA
 SCOTTSDALE, ARIZONA 85251

DATE ISSUED _____

 AUTHORIZED REPRESENTATIVE

CONTRACTOR'S AFFIDAVIT
REGARDING
SETTLEMENT OF CLAIMS

_____, Arizona
Date _____

RE: _____

To the City of Scottsdale, Arizona

Gentlemen:

This is to certify that all lawful claims for materials, rental of equipment and labor used in connection with the construction of the above project, whether by Subcontractor or claimant in person, have been duly discharged.

The undersigned, for the consideration of \$ _____, as set out in the final pay estimate, as full and complete payment under the terms of the contract, hereby waives and relinquishes any and all further claims or right of lien under, in connection with, or as a result of the above described project. The undersigned further agrees to indemnify and save harmless the City of Scottsdale against any and all liens, claims of liens, suits, action, damages, charges and expenses whatsoever, which said City may suffer arising out of the failure of the undersigned to pay for all labor performances and materials furnished for the performance of said installation.

Signed and dated at _____, this _____ day of _____ 19 .

CONTRACTOR

BY

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

The foregoing instrument was subscribed and sworn to before me
this _____ day of _____, 19 .

Notary Public

My Commission Expires

_____, Arizona

Date _____

RE: _____

To the City of Scottsdale, Arizona

Gentlemen:

The final pay estimate of \$ _____, which represents total and complete payment under the terms of the contract, fully and completely reflects the actual quantities of work performed. Said final quantities were mutually measured and agreed upon by authorized representatives of the undersigned and the City of Scottsdale.

Signed and dated this _____ day of _____ 19 .

BY: _____

Title: _____

For: _____

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

The foregoing instrument was subscribed and sworn to before me this _____ day of _____ 19 .

Notary Public

FINAL ACCEPTANCE

TO: _____

DATE: _____

RE: _____

Gentlemen:

Construction on the above project was completed on _____ and on _____ a final inspection was made of the subject improvements by this office. The work substantially conforms to the approved plans and specifications. We, therefore, accept those portions within the public R/W into our system for maintenance.

Yours truly,

Recommended By:

- cc: File (2)
- City Clerk
- Finance Director
- Public Works Inspection Supervisor
- Design Services Manager
- Private Development Eng. Manager
- Purchasing Director