

CONSTRUCTION SPECIFICATIONS

FOR

CONTRACT FCD 94-37
DYSART DRAIN IMPROVEMENTS PROJECT
BRIDGES AND UTILITY CROSSINGS

NBS/LOWRY Engineers & Planners
2600 North 44th Street
Phoenix, Arizona 85008-1599



(Engineer's Seal)

Prepared For

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Recommended by: Edward A. Raleigh Date: 11/4/94
Edward A. Raleigh, P.E., Chief
Engineering Division

Issued for Public Bidding by: D. E. Sagramoso Date: 11/4/94
D. E. Sagramoso, P.E.
Interim Chief Engineer and General Manager

SUPPLEMENTARY TO MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EDITION OF 1992 AND REVISIONS AND SUPPLEMENTS THERETO.

ATTENTION

ALL PROSPECTIVE BIDDERS

A.R.S. Section 34-201 now requires that construction bid proposals be accompanied by a certified check, cashiers check or surety bond for ten percent (10%) of the total amount of the bid.

All bonds must be executed solely by a surety company or companies holding a Certificate of Authority to transact surety business in Arizona, issued by the Director of the (State) Department of Insurance.

Bonds (bid, payment and performance) executed by an individual surety or sureties are not in compliance with the Arizona Revised Statutes.

Bids received containing bid bonds not in compliance with the Arizona Revised Statutes will be considered as being non-responsive. The use of District-supplied bond forms is required.

Please submit your bids accordingly.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CONTRACT FCD 94-37

Dysart Drain Improvements Project
Bridges and Utility Crossings

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(Area to left reserved for
Engineer's Seal)

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

INVITATION FOR BID

BID OPENING DATE: December 7, 1994.

LOCATION: This project is located east of Luke Air Force Base, one-half mile north of Glendale Avenue, between Dysart Road and El Mirage Road.

PROPOSED WORK: This project provides for the construction of three pre-cast girder bridges, two utility crossings of the Dysart Drain Channel, and pavement, curb/gutter construction on Dysart and El Mirage Roads.

NOTE: THIS CONTRACT IS SUBJECT TO PREVAILING WAGES IN ACCORDANCE WITH THE PROVISIONS OF THE DAVIS-BACON ACT, 40 U.S.C. 27a.

BIDS:

SEALED BIDS for the proposed work will be received by the Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona 85009 until 2:00 p.m. (Phoenix time) on the above date and then publicly opened and read at 2801 West Durango Street, Phoenix, Arizona 85009. All bids are to be marked in accordance with Section 102.9 of the MAG Uniform Standard Specifications and addressed to the Chief Engineer and General Manager, Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona 85009. No bids will be received after the time specified for bid opening. All bids must be submitted on proposal forms furnished by the Flood Control District and included in the Proposal Pamphlet. The Board of Directors reserves the right to reject any and all bids and to waive any informality in any bid received.

ELIGIBILITY OF CONTRACTOR:

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

The bidder shall be required to certify that it has the appropriate "A" Contractor's license in the State of Arizona to perform the before-mentioned type or work. Certification shall be on the form provided herein.

The bidder may be required to furnish an affidavit as evidence of previous satisfactory performance in the above-mentioned type of work.

CONTRACT TIME:

All work on this Contract is to be completed within three hundred (300) calendar days after date of Notice to Proceed, subject to restrictions presented in the Supplementary General Conditions.

MBE/WBE PARTICIPATION:

For this contract, a goal of Ten (10) percent MBE/WBE is established for Minority/Women-Owned Business Enterprises. Instructions and required forms are included in the Minority and Women-Owned Business Enterprise Program Contracting Requirements section. The Maricopa County minority and Women-Owned Business Enterprise Program, effective January 1, 1992, is incorporated by reference.

MANDATORY PRE-BID CONFERENCE:

A MANDATORY Pre-Bid conference will be held on November 29, 1994 at 2:30 p.m. in the Flood Control District's New River Conference Room, 2801 West Durango Street, Phoenix, Arizona. All prospective bidders are required to attend in order for their bid to be received and opened for this project.

Questions or items for clarification may be addressed to the Chief, Contracting Branch, in writing, at least ten (10) days prior to bid opening date. Where appropriate, any answers or clarifications affecting the cost may be addressed to all bidders in an addendum. Verbal interpretations, unless specifically addressed by addendum, shall not be binding nor have any legal effect.

PROJECT PLANS, SPECIAL PROVISIONS AND CONTRACT DOCUMENTS:

Plans and Construction Specifications may be obtained from the Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona 85009 upon payment of \$27.00 by check, payable to the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. This payment will not be refunded. Mail orders for project documents must include an additional \$7.50 for first class U.S. postage and handling. The total \$34.50 will not be refunded. Regardless of circumstances, we cannot guarantee mail delivery. Each bid must be refunded. Regardless of circumstances, we cannot guarantee mail delivery. Each bid must be accompanied by a Bid Bond, cashier's or certified check or postal money Order equal to 10 percent (10%) of the bid, made payable to the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY as a guarantee that if the work is awarded to the bidder, the bidder will within ten (10) days of receipt of the Proposal Acceptance, enter into proper contract and bond condition for the faithful performance of the work, otherwise, said amount may be forfeited to the said BOARD OF DIRECTORS as liquidated damages.

PRINCIPLE ITEMS AND APPROXIMATE QUANTITIES

QUANTITY	UNIT	DESCRIPTION
492	CY	Class "AA" Concrete
1,018	CY	Class "A" Concrete
2,010	LF	30 Inch Drilled Shaft
76	LF	24 Inch Drilled Shaft
23	EA	Prestressed Concrete Girders
1,882	TONS	Asphalt Concrete Pavement

PROPOSAL

TO THE BOARD OF DIRECTORS
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
PHOENIX, ARIZONA

Gentlemen:

The following Proposal is made for Dysart Drain Improvements Project, Bridges and Utility Crossings, FCD 94-37, in the County of Maricopa, State of Arizona.

The following Proposal is made on behalf of

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

The Undersigned certifies that the approved Plans, Supplementary General Conditions, Special Provisions, Forms of Contract, Bonds, and Sureties authorized by the Board of Directors and constituting essential parts of the Proposal, have been carefully examined and also that the site the work has been personally inspected.

The Undersigned declares that the amount and nature of the work to be done is understood and that at no time will misunderstanding of the Plans, Construction Specifications, Special Provisions, Supplementary General Conditions, or conditions to be overcome, be pled. On the basis of the Plans, Construction Specifications, Special Provisions, Supplementary General Conditions, the Forms of Contract, Bonds, and Sureties proposed for use, the Undersigned proposes to furnish all the necessary machinery, equipment, tools, apparatus, and other means of construction, to do all the work and to furnish all the materials in the manner specified and to finish the entire project within the time hereinafter proposed and to accept, as full compensation therefore, the sum of various products obtained by multiplying each unit price, herein bid for the work or materials, by the quantity thereof actually incorporated in the complete project, as determined by the Engineer or Architect.

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

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

The Undersigned further proposes to execute the Contract Agreement and furnish satisfactory Bonds and Sureties within ten (10) days of receipt of Notice of Proposal acceptance, **TIME BEING OF THE ESSENCE**. The Undersigned further proposes to begin work as specified in the Contract attached hereto, and to complete the work within **three hundred (300) calendar days, subject to restrictions presented in the Supplementary General Conditions**, from the effective date specified in the Notice to Proceed, and maintain at all times a Payment and Performance Bond, approved by the Board of Directors, each in an amount equal to one hundred percent of the contract amount. This Bond shall serve not only to guarantee the completion of the work on the part of the Undersigned, but also to guarantee the excellence of both workmanship and material and the payment of all obligations incurred, said Bonds and Sureties to be in full force and effect until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled.

A proposal Guaranty in the amount and character named in the Invitation to Bid is enclosed amounting to not less than ten (10) percent of the total bid, which Proposal Guaranty is submitted as a guaranty of the good faith of the Bidder and the Bidder will enter into written contract, as provided, to do the work, if successful in securing the award thereof; and it is hereby agreed that if at any time other than as provided in the Proposal requirements and conditions the Undersigned should withdraw its Proposal, if the Proposal is accepted and there should be failure on the part of the Undersigned to execute the Contract and furnish satisfactory Bonds and Sureties as herein provided, the Flood Control District of Maricopa County in either of such events, shall be entitled and is hereby given the right to retain the said Proposal Guaranty as liquidated damages.

The Undersigned acknowledges receipt of the following addenda, attached these to the bid package, and has included their provisions in the proposal:

Addendum No. _____	Dated _____

The Undersigned has enclosed the required bid security to this Proposal.

BIDDING SCHEDULE

PROJECT: Dysart Drain Improvements Project, Bridges and Utility Crossings

CONTRACT: 94-37

ITEM NO	DESCRIPTION	Unit	Approx QTY	UNIT COST (IN WRITING) AND/100 DOLLARS	UNIT COST NUMBERS	EXTENDED AMOUNT
107	NPDES/SWAPP Permits	LS	1			
202	Mobilization	LS	1			
206	Structural Backfill	CY	1,706			
301	Subgrade Preparation	SY	2,368			
310	Aggregate Base Course	TON	1,115			
315	Bituminous Prime Coat	TON	9			
321-1	Asphaltic Concrete Pavement (D-1/2)	TON	1,357			
321-2	Asphaltic Concrete Pavement (C-3/4)	TON	525			
329	Bituminous Tack Coat	TON	33			
340-1	Concrete Curb and Gutter	LF	462			
340-2	Concrete Driveway Entrance	SF	740			
345	Adjust Frames, Covers, and Boxes	EA	11			
350-1	Remove Structures	LS	1			
350-2	Remove AC Pavement	LS	1			
350-3	Miscellaneous Removals	LS	1			
401	Traffic Control	LS	1			
405	Survey Monuments (MAG 120-2, Type E)	EA	2			
420	Chain Link Fence, 4'	LF	428			
502-1	Drilled Shafts (30 Inch)	LF	2,010			
502-2	Drilled Shafts (24 Inch)	LF	76			
502-3	Dysart Road Shoofly	LS	1			
502-4	Morton Salt Shoofly	LS	1			
505-1	Class "AA" Concrete	CY	418			

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
ACCESS CTRL/CCTV/SECURITY SYSTEMS	ASSI SECURITY OF ARIZONA MICHAEL K. LIEBECK	(602) 581-0101 MBE	2401 W. BEHREND DR., #87-89 PHOENIX, AZ 85027-
ACCOUNTING - CERTIFIED PUBLIC	NANCY M GUY CPA NANCY M GUY, CPA	(602) 991-1413 WBE	9832 N HAYDEN #203 SCOTTSDALE, AZ 85258-
ACTUARIAL & EMPLOYEE BENEFIT CONSULTING	PENSION PERSPECTIVES, INC. CAROL LLOYD	(602) 234-3254 MBE	3101 N. CENTRAL AVE., #830 PHOENIX, AZ 85012-
ADMINISTRATIVE SUPPORT SERVICES	OFFICE SERVICES UNLIMITED CAROLYN S. STOCK	(602) 585-7281 WBE	8120 E. CONQUISTATORES DR. SCOTTSDALE, AZ 85255-
ADMINISTRATVE SERVICES, ACCOUNTING	BENCHMARK CONSULTING SERVICES, LTD. MICHELLE CARPENTER	(602) 545-6658 WBE	P.O. BOX 1454 GILBERT, AZ 85299-
ADVERTISING AGENCY	LA CRESTA, INC. OLIVIA S. ESCOBAR	(602) 458-6472 MBE	35 SCHOOL DR. NE SIERRA VISTA, AZ 85635-
ADVERTISING AGENCY	MEDIA BUYING SERVICES INC. KATHY MUNSON	(602) 996-2232 WBE	4545 E. SHEA BLVD. #125 PHOENIX, AZ 85028-
ADVERTISING IN EL SOL NEWSPAPER	PREMIER COMMUNICATIONS INTERNATIONAL RAY FLORES	(602) 257-1746 MBE	11 W. JEFFERSON, #28 PHOENIX, AZ 85003-
ADVERTISING, MARKETING PUBLIC RELATIONS	MUNOZ Y ASOCIADOS JOE F. MUNOZ	(602) 939-1626 MBE	5126 W. OLIVE AVE. BOX 216 GLENDALE, AZ 85302-
ADVERTISING, MARKETING, PUBLIC RELATIONS	TOPETE/STONEFIELD CONSULTANTS LIZ TOPETE STONEFIELD	(602) 254-8780 WBE	325 WEST ENCANTO BOULEVARD PHOENIX, AZ 85003-
AERIAL PHOTOGRAPHY	AERIAL DATA SERVICE, INC. LYN HENRY	(918) 437-8453 WBE	10822 E. NEWTON PL. TULSA, OK 74116-
AGGREGATE & LANDSCAPE MATERIALS	FORT McDOWELL SAND & GRAVEL JOHN C. KIRK	(602) 837-2358 MBE	P.O. BOX 17150 FOUNTAIN HILLS, AZ 85269-
AIR FILTER CLEANING SERVICE	AMERICAN AIR FILTER SERVICE CORPORATION CONSTANCE L. ROHRER	(602) 966-8588 WBE	1615 W. UNIVERSITY DR., #133 TEMPE, AZ 85281-
AIR PLACED CONCRETE	FISHER SHOTCRETE, INC. JANICE FISHER	(602) 897-7824 WBE	13721 E. MORGAN DR. GILBERT, AZ 85234-
ANESTHESIOLOGY	ALBERTA MAZZEI M.D. DR. ALBERTA MAZZEI	(602) 267-5141 WBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	CHANDRA KANT B. PATEL, M.D. DR. CHANDRA KANT B. PATEL	(602) 267-5141 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	DANIEL T. TILLMAN, M.D. DR. DANIEL T. TILLMAN	(602) 267-5141 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/84

Business Type	Firm Contact Name	Phone M/WBE Status	Address
ANESTHESIOLOGY	DEBORAH M. VERNASCO, M.D. DR. DEBORAH M. VERNASCO	(602) 267-5141 WBE	P.O. BOX 5099 PHOENIX, AZ 86010-
ANESTHESIOLOGY	INA G. LIEBERMAN, M.D. DR. INA G. LIEBERMAN	(602) 267-5141 WBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	MOHAMMAD J. KHAN, M.D. DR. MOHAMMAD J. KAHN	(602) 267-5141 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	PAUL LIN, M.D. DR. PAUL LIN	(602) 267-5141 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	ROBIN L. PRENTICE-BERKSETH, M.D. DR. PRENTICE-BERKSETH	(602) 267-5141 WBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	WILLIAM MURRY SMITH, M.D. DR. WILLIAM MURRY SMITH	(602) 267-5141 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-
ANESTHESIOLOGY	WILLIAM T. JOHNSON, M.D. DR. WILLIAM T. JOHNSON	(602) 267-5141 MBE	2601 E. ROOSEVELT PHOENIX, AZ 85254-
ANIMAL & PET CLINIC & HOSPITAL	SANTIS PET CLINIC HUGO SANIBANEZ	(602) 247-0003 MBE	6003 W. THOMAS RD. PHOENIX, AZ 85033-5854
ARCHAEOLOGICAL SURVEY, TESTING	ARCHAEOLOGICAL CONSULTING SERVICES, LTD MARGERIE GREEN, PH.D	(602) 894-5477 WBE	424 W. BROADWAY TEMPE, AZ 85281-
ARCHAEOLOGY, CULTURAL RESOURCE CONSLT.	KINLANI ARCHAEOLOGY CULTURAL RESOURCE DEBORAH S, DOSH	(602) 556-9797 WBE	2101 N. 4TH STREET, #220 FLAGSTAFF, AZ 86004-
ARCHAEOLOGY/ENVIRONMENTAL CONSULTING	CULTURAL & ENVIRONMENTAL SYSTEMS MARY LOU HEUETT	(602) 622-2782 WBE	P.O. BOX 2324 TUCSON, AZ 85702-
ARCHITECT	ROBERT GOMEZ ARCHITECT, A.I.A. ROBERT GOMEZ	(602) 263-0329 MBE	77 EAST WELDON SUITE 289 PHOENIX, AZ 85012-
ARCHITECTURAL DESIGN	CHEN ARCHITECTS INTERNATIONAL MING CHEN	(602) 789-9200 MBE	3101 W. PEORIA AVE., #111 PHOENIX, AZ 85029-
ARCHITECTURAL DESIGN	SALAZAR ASSOCIATES ARCHITECTS LTD. LUIS A. SALAZAR	(602) 274-0846 MBE	313 E. THOMAS RD., #208 PHOENIX, AZ 85012-
ARCHITECTURAL DESIGN	ZAMIR HASAN & ASSOCIATES - ARCHITECT ZAMIR HASAN	(602) 967-1766 MBE	1969 E. BROADWAY, #2A TEMPE, AZ 85282-
ARCHITECTURAL FIRM	FOREMAN WENGER ARCHITECTS LISA FOREMAN	(602) 244-2475 WBE	426 N. 44TH STREET, #252 PHOENIX, AZ 85008-6595
ARCHITECTURAL INTERIORS	McCARTHY NORDBURG, LTD. JUDITH NORDBURG	(602) 955-4499 WBE	3333 E. CAMELBACK RD. #180 PHOENIX, AZ 85018-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
ARCHITECTURAL MILLWORK	LADY WOODRUFF CABINENTRY, INC. PABLO D. GARCIA	(602) 237-4224 MBE	4812 S. 43RD AVE PHOENIX, AZ 85041-
ARCHITECTURAL, FULL SERVICE	WYATT/RHODES ARCHITECTS, INC. BURKE WYATT	(602) 956-8558 MBE	4524 N. 12TH ST. PHOENIX, AZ 85014-
ARCHITECTURAL, PROJECT MANAGEMENT	ADM GROUP, INC. BEN P. BARCON	(602) 252-3227 M/WBE	106 E. BUCHANAN ST. PHOENIX, AZ 85004-
ARCHITECTURE, PLANNING	THE ARCHITECTURE COMPANY RICHARD FE TOM	(602) 622-4506 WBE	2625 N. SILVERBELL RD. TUCSON, AZ 85745-
ARCHITECTURAL SERVICE	VEHR/WEBB STUDIO MARET WEBB	(602) 957-6294 WBE	4118 E. VERNON AVE. PHOENIX, AZ 85008-
ARCHITECTURAL SIGNS	TENCO CAROL S. THOMPSON	(602) 277-4713 WBE	1702 W. CAMELBACK RD., #284 PHOENIX, AZ 85015-
ART APPRAISER AND CONSULTANT	CORINNE CAIN LTD CORINNE CAIN	(602) 279-2167 WBE	5726 N. 10TH ST., #6 PHOENIX, AZ 85014-
ARTS, GRAPHIC DESIGN, POSTER, LOGOS	DUGAL CHEE IMAGE BANK CHRISTEL CHEE	 MBE	1202 E. KALER DR. PHOENIX, AZ 85020-
ASPHALT/OIL APPLICATION & TRANSPORT	CACTUS TRANSPORT, INC. J.R. DOMENY	(602) 242-9983 WBE	P.O. BOX 11605 PHOENIX, AZ 85013-
ASSETS & PROPERTY MGNT., LOAN, FINANCIAL	SOUTHWEST HARVARD GROUP ASSET MANGT. GARY TRUJILLO	(602) 263-0500 MBE	3200 N. CENTRAL AVE., #1250 PHOENIX, AZ 85012-
ATTENDANT CARE	VALLEY WIDE ATTENDANT CARE MICHELLE J. BRUNE	(602) 917-0009 WBE	497 W. RAY RD., #D CHANDLER, AZ 85224-
AUDIO/VISUAL RETAIL SALES	ENTERPRENEUR VENTURES RODERIC L. WEBB	(602) 276-5516 MBE	P.O. BOX 66955 PHOENIX, AZ 85082-6955
AUDITS, PERFORMANCE & LOSS PREVENTION	CSE-CUSTOMER SATISFACTION EVALUATIONS SYLVIA F. TAKEUCHI	(602) 870-0396 WBE	7028 N. 11TH AVENUE PHOENIX, AZ 85021-
AUTO BODY REPAIR & REFINISHING	TOM'S AUTO BODY, INC. TOM S. OCANO	(602) 252-4134 MBE	1327 E. BUCKEYE RD PHOENIX, AZ 85034-
AUTO UPHOLSTERY	LOPEZ AUTO TOPS ANNIE LOPEZ	(602) 242-4086 MBE	5410 N. 27TH AVE. PHOENIX, AZ 85017-
AUTOMOBILE TOWING AND RECOVERY	ARIZONA'S PROFESSIONAL TOWING, INC. LYNDA A. BORHAUER	(602) 257-1665 WBE	2901 W. WELDON AVE. PHOENIX, AZ 85017-
AVIATION CONSULTING FIRM	UNISON CONSULTING GROUP, INC. ANTHONY Q. DRAKE	(312) 421-4200 MBE	1021 W. ADAMES STREET, #102 CHICAGO, IL 60607-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/84

Business Type	Firm Contact Name	Phone M/WBE Status	Address
BACKFLOW PREVENTION, TEST & REPAIRS	ARIZONA CROSS CONECTION SUEO MURAKAMI	(602) 842-8405 MBE	4116 W. NORTHERN AVE PHOENIX, AZ 85051-
BUILDING & MASONRY SUPPLIES	PREACH BUILDING SUPPLY PHILLIP PREACH	(602) 844-4584 MBE	1601 W. HATCHER PHOENIX, AZ 85021-
CAMERA READY ART, DESIGN & PRODUCE	McCOMB & ASSOCIATES, INC. PATRICIA MCCOMB-STOWE	(602) 248-8255 WBE	4700 N. 12TH ST., #206 PHOENIX, AZ 85014-
CARPET & FURNITURE CLEANING	F.W.W. CLEANING CLUB FRED W. WALKER, JR.	(602) 276-2765 MBE	1837 W. MALDONADO RD. PHOENIX, AZ 85041-
CARPET AND FLOOR TILE INSTALLATION	B & C FLOOR COVERING BENJAMIN R. CASTILLO	(602) 233-2601 MBE	1201 N. 54TH AVE., #132 PHOENIX, AZ 85043-
CASSISSON DRILLING, PILE DRIVING	INTRA-AMERICAN FOUNDATION & DRILLING CO. SALVADOR ALTAMIRANO	(602) 256-2843 MBE	502 W. WATKINS RD. PHOENIX, AZ 85003-
CERTIFIED PUBLIC ACCOUNTANTS	FLORENTINO J. GONZALES, CPA, P.C. FLORENTINO J. GONZALES	(602) 941-1950 MBE	1805 N. SCOTTSDALE RD., #3 TEMPE, AZ 85281-
CHEMICAL & ENVIRONMENTAL ENGINEERING	GUTIERREZ/PALMENBERG GILBERT GUTIERREZ	(602) 234-0696 MBE	2822 W. CLARENDON PHOENIX, AZ 85017-
CHILD CARE SERVICES	SUMMA ASSOCIATES KAREN WOODFORD	(602) 820-9844 WBE	735 E. GUADALUPE TEMPE, AZ 85283-
CIVIL & ENVIRONMENTAL ENGINEERING	DAMON S. WILLIAMS ASSOCIATES DAMON S. WILLIAMS	(602) 265-5400 MBE	645 E. MISSOURI AVE. # 270 PHOENIX, AZ 85012-
CIVIL & STRUCTURAL ENGINEERING	EKS ENGINEERS, INC BAL K. SANAN, PH.D	(602) 864-8995 MBE	8433 N. BLACK CANYON HWY.#152 PHOENIX, AZ 85021-
CIVIL AND STRUCTURAL	SUNDARAM ENGINEERING SHAN SUNDARAM	(602) 839-3445 MBE	833 WEST PORTOBELLO MESA, AZ 85210-
CIVIL ENGINEER	BAY CITY ENGINEERS RUTH FRANKLIN	(602) 788-5595 WBE	4631 E. ACOMA DR. PHOENIX, AZ 85032-4897
CIVIL ENGINEERING	ENGINEERING ALLIANCE JIT S. PEGANY	(602) 954-8344 MBE	4120 N. 20TH STREET, #B PHOENIX, AZ 85016-
CIVIL ENGINEERING & LAND SURVEYING	AZTEC ENGINEERING HERMANT K. PATEL	(602) 283-9640 MBE	4515 N. 16TH ST., #202 PHOENIX, AZ 85016-5363
CIVIL ENGINEERING & SURVEYING	ALPHA ENGINEERING DINKAR GANGWAL	(602) 795-8600 MBE	3131 E. SECOND STREET TUCSON, AZ 85716-
CIVIL ENGINEERING CONSULTING SERVICES	STEVE CORRALES ENGINEERING CORP. STEVEN CORRALES, JR.	(602) 622-2553 MBE	1008 W. ST. MARY'S RD., BLDG.1 TUCSON, AZ 85745-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
CIVIL ENGINEERING SERVICES	COLLINS-PINA CONSULTING ENGINEERS, INC. JERRY A. COLLINS	(602) 264-7505 MBE	3800 N. CENTRAL AVE., #200 PHOENIX, AZ 85012-
CIVIL ENGINEERING, LAND SURVEYOR	PROJECT ENGINEERING CONSULTANTS, LTD. LARRY MALDONADO	(602) 484-7691 MBE	3130 N. 35TH AVE., #1 PHOENIX, AZ 85017-
CIVIL ENGINEERS	URBAN ENGINEERING, INC. FORREST L. METZ	(602) 220-0004 MBE	4146 N. 12TH ST. PHOENIX, AZ 85014-
CIVIL ENGINEERS, DESIGN, CONSTR. MGMT.	R S ENGINEERING, INC. ROBERT M. SUAREZ	(602) 791-3933 MBE	595 S. MEYER AVE. TUCSON, AZ 85701-
CIVIL, HYDROLOGY & LAND SURVEYING	WOOD, PATEL & ASSOCIATES, INC. ASHOK C. PATEL	(602) 234-1344 MBE	1550 E. MISSOURI PHOENIX, AZ 85014-
CIVIL/STRUCTURAL ENGINEERING SERVICES	A. K. ENGINEERING A. K. NARASIMHAN	(602) 839-3747 MBE	936 W. MESETO MESA, AZ 85210-
CLEANING PRODUCTS RETAIL & CONSULTING	THE CANALES GROUP IRENE CANALES SIMONETTI	(602) 496-0349 M/WBE	P.O. BOX 50563 PHOENIX, AZ 85076-0563
CLEANING SUPPLIES	DYNAMIC PROGRAM PLANNING, INC. THOMAS WILSON, III	(602) 276-6550 MBE	P.O. BOX 8280 PHOENIX, AZ 85066-
CLEANING/DEGREASING CHEMICALS	SOQ ENVIROMENTAL TECHNOLOGY OLABISI CARLTON-CAREW	(602) 838-5564 MBE	2413 E. MANHATTON DR. TEMPE, AZ 85282-
CLERICAL SUPPORT SERVICE	L & J LEGAL SERVICES LINDA LOFTS	(602) 246-9658 WBE	8129 N. 35TH AVE., #2-182 PHOENIX, AZ 85051-
COFFEE SALES AND EQUIPMENT	THE DAILY GRIND AUDREY VUONA	(602) 921-7909 WBE	P.O. BOX 26202 TEMPE, AZ 85285-
COLLECTION AGENCY/FULL SERVICE	FINANCIAL MANAGEMENT SERVICES, INC. DIANE SANDLER	(602) 263-5533 WBE	P.O. BOX 27482 PHOENIX, AZ 85061-
COMMERCIAL ART	JO HALTERMON DESIGN JO HALTERMON	(606) 384-3311 WBE	1409 MT. ZION ROAD UNION, KY 41091-
COMMERCIAL FURNITURE REPAIR	MIST SYSTEMS LYDIA AVALOS	(602) 759-0595 MBE	16422 SOUTH 46TH PLACE PHOENIX, AZ 85044-
COMMERCIAL MACHINE EMBROIDERY	IMAGE EMBROIDERY PATRICIA WILLIAMS	(602) 866-3443 WBE	13039 N. 34TH DR. PHOENIX, AZ 85029-
COMMUNICATION SKILLS CONSULTING	VALENTINE COMMUNICATION CAROL ANN VALENTINE	(602) 967-2817 WBE	2607 S. FOREST TEMPE, AZ 85282-
COMMUNICATIONS INSTALLATION	ADKINS CABLING SYSTEMS TAD ADKINS	(602) 889-2206 MBE	1010 E. PENNSYLVANIA st., #201 TUCSON, AZ 85714-

TERRICOLA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
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Business Type	Firm Contact Name	Phone M/WBE Status	Address
COMMUNITY RELATIONS	ACW & ASSOCIATES ANNE C. WARNER	(602) 743-8866 WBE	4901 W. HARRIS HAWK PLACE TUCSON, AZ 85745-
COMPUTER CONSULTING	RB BALCH AND ASSOCIATES ROCHELLE BALCH	(602) 561-9366 WBE	22504 N. 61ST DR. GLENDALE, AZ 85310-
COMPUTER CONSULTING & PROGRAMMING	MACH 2 SYSTEMS, INC. JOSETTE VAN STIPHOUT	(602) 286-7656 WBE	5125 N. 16TH ST., #A-106 PHOENIX, AZ 85016-
COMPUTER HARDWARE & SOFTWARE SALES	McBRIDE AND ASSOCIATES, INC. TERESA N. McBRIDE	(505) 828-9211 M/WBE	6013 SIGNAL ROAD N.E. ALBUQUERQUE, NM 87113-
COMPUTER HARDWARE SALES, SOFTWARE	TAYLORD COMPUTER MARKETING, CROP. JEANETTE HENDRICKS	(602) 569-0011 WBE	P.O. BOX 54310 PHOENIX, AZ 85024-
COMPUTER RESELLER	BOTTOMLINE ENTERPRISES, INC. TANDY HAMILTON	(602) 892-4436 MBE	8433 N. BLACK CANYON HY., #156 PHOENIX, AZ 85021-
COMPUTER SALES & SERVICE	TRANSOURCE COMPUTERS LEE TING	(602) 997-8101 MBE	2033 W. NORTH LANE, #18 PHOENIX, AZ 85021-
COMPUTER SALES & TECH.SUPPORT	J. J. CRONEY & ASSOCIATES JERRY CRONEY	(602) 894-6068 WBE	1635 W. UNIVERSITY #125 TEMPE, AZ 85281-
COMPUTER SUPPORT SERVICES, ENG., ARCH	COLE FINANCIAL SERVICES JOSODA A. COLE	(313) 962-7055 MBE	65 CADILLAC SQUARE, #2215 DETROIT, MI 48226-
COMPUTER SYSTEMS & SUBSYSTEMS DEVELOP.	ESA MICRO HEMANT SHAH	(805) 940-5700 MBE	1990 W. CAMELBACK RD. #308 PHOENIX, AZ 85015-
COMPUTER SYSTEMS INTEGRATION	REALSOFT CONSULTING, INC. YATO ADEYEMI	(602) 996-3722 MBE	4320 E. SHEA BLVD, #109 PHOENIX, AZ 85028-
COMPUTER TRAINING	MICRO PROFESSIONALS, INC. NIKKI CAPETZ	(602) 945-0992 WBE	6991 E. CAMELBACK RD., #D-300 SCOTTSDALE, AZ 85251-
CONCRETE COMPANY	RAY-O-CONCRETE, INC RAY ORTEGA	(602) 566-6151 MBE	22624 N. 83RD AVENUE PEORIA, AZ 85382-
CONCRETE CONSTRUCTION	3-D DEVELOPMENT DAVID DAVIS	(602) 892-5806 MBE	953 E. JUANITA, #C-5 CHANDLER, AZ 85204-
CONCRETE CONSTRUCTION	BESS CONSTRUCTION, INC. ELAIN SWEETLAND	(602) 482-0810 WBE	2250 E. KATHLEEN PHOENIX, AZ 85022-
CONCRETE FLATWORK, CURBS, SIDEWALKS ETC.	EXPRESS CONCRETE ALEXANDER OROSCO	(602) 276-7858 MBE	105 W. BUIST PHOENIX, AZ 85041-
CONSTRUCTION MANAGEMENT	DDH CONSULTING DEBORAH D. HOFFMANN	(602) 877-0111 WBE	8730 W. FLOWER ST. PHOENIX, AZ 85037-2929

MARICOPA COUNTY
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Business Type	Firm Contact Name	Phone M/WBE Status	Address
CONSTRUCTION MANAGEMENT	VALI COOPER & ASSOCIATES, INC. VALI C. COOPER	(510) 215-0264 M/WBE	41 WASHINGTON AVE. POINT RICHMOND, CA 94801-
CONSTRUCTION MANAGEMENT	VALLEY WEST - C.E.M. CAROLYN M. DOTSON	(602) 243-6576 MBE	2438 EAST CHIPMAN ROAD #2 PHOENIX, AZ 85040-
CONSTRUCTION MANAGMENT	PMA CONSULTANTS, INC. DR. GUI PONCE DE LEON	(602) 277-7307 MBE	3800 N. CENTRAL AVE., #460 PHOENIX, AZ 85013-
CONSTRUCTION MATERIALS TESTING	SPEEDIE & ASSOCIATES, INC. HENRIETTA SPEEDIE	(602) 997-6391 M/WBE	11029 N. 24TH AVE., #805 PHOENIX, AZ 85029-
CONSTRUCTION PAVING & GRADING	MAGIC CONSTRUCTION, INC. WARREN EVERETT	(602) 759-1382 MBE	4056 E. WOODLAND DR. PHOENIX, AZ 85044-
CONSTRUCTION PHOTOGRAPHY	PAMELA ROBERTS PHOTOGRAPHY PAMELA ROBERTS LEVITT	(716) 248-9100 WBE	32-1/2 SOUTH MAIN STREET PITTSFORD, NY 14534-
CONSTRUCTION SERVICES	ACTION CONSTRUCTION KENNETH I. MAMODE	(602) 945-9980 MBE	7502 E. MCKINLEY ST. SCOTTSDALE, AZ 85257-
CONSTRUCTION SERVICES	CLEMENS CONSTRUCTION CO. JOHN A. CLEMENS	(916) 223-6583 MBE	P.O. BOX 494639 REDDING, CA 96049-
CONSTRUCTION SERVICES	GOLDSTIEN & LUERA CONSTRUCTION ARTHER LUERA	(602) 252-1310 MBE	1219 S. 19TH STREET PHOENIX, AZ 85034-
CONSTRUCTION STEEL REINFORCEMENT	PARADISE REBAR, INC. JOEL L. RASCHKE	(602) 516-9056 MBE	P.O. BOX 86458 PHOENIX, AZ 85080-
CONSTRUCTION TRUCK BROKER	SILVER ROSE CONSTRUCTION, INC. LISA SIGALA	(602) 437-0448 M/WBE	3435 E. ELWOOD PHOENIX, AZ 85040-
CONSTRUCTION TRUCKING	PJ's ENTERPRISES, INC. PAMELA J. BEDDING	(602) 827-0477 WBE	P.O. BOX 344 MESA, AZ 85211-
CONSTRUCTION UNDERGROUND PIPELINE	TIERRA PIPELINE, INC. RICHARD JUAREZ	(602) 780-9374 MBE	22233 N. 23RD AVE. PHOENIX, AZ 85027-
CONSTRUCTION, EARTHWORK, GENERAL	MILLER & ASSOCIATES, INC. ANNMARIE MILLER	(602) 682-2939 MBE	P.O. BOX 818 RILLITO, AZ 85654-0818
CONSTRUCTION, ENVIRONMENTAL	GEC CONSTRUCTION & MANAGEMENT, INC. ROBERT LEON, SR.	(602) 966-8771 MBE	2447 W. 12TH STREET, #5 TEMPE, AZ 85281-
CONSTRUCTION, GRADING & PAVING	DEL RIO CONTRACTING, INC. WIL LOPEZ	(602) 842-3937 MBE	P.O. BOX 2772 GLENDALE, AZ 85311-2772
CONSTRUCTION, PRE-CAST CONCRETE	STONE RIVER, INC. LOUIS HAMILTON	(505) 281-9484 MBE	905 STATE ROAD 344 SANDIA PARK, NM 87047-

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CONSTRUCTION, REMODEL HOMES, ETC.	ARIZONA BUILT RITE, LTD. AL GUTIERREZ	(602) 877-1799 MBE	P.O. BOX 1584 AVONDALE, AZ 85323-
CONSULTANT	SIMON'S CONSULTING SERVICES AMAECHE AKPA	(602) 981-4010 MBE	234 N. 75TH ST., #219 MESA, AZ 85207-
CONSULTING - RESEARCH AND BUSINESS	UNITED MANAGEMENT SYSTEMS BERNARD STEWART	(602) 263-0896 MBE	221 EAST INDIANOLA, #216 PHOENIX, AZ 85012-
CONSULTING ON LOCAL AND FEDERAL PROGRAMS	SJW CONSULTING, INC. S. JEAN WARREN	(602) 545-0044 WBE	1016 S. 21ST STREET MESA, AZ 85204-
CONSULTING SERVICES IN HUMAN RESOURCES	CHEETAH CONSULTING, INC. MARGARET R. TCHIDA	(602) 921-3214 WBE	1234 W. 5TH STREET TEMPE, AZ 85281-
CONSULTING STRUCTURAL ENGINEERS	NABAR STANLEY BROWN, INC. SATEESH J. NABOR, PH.D	(602) 265-7030 MBE	745 E. MARYLAND AVE., #203 PHOENIX, AZ 85014-1524
CONTRACT ENGINEERING FIRM	ETS/CDRL SERVICES, INC. MARTHA S. ALBERTI	(602) 423-0000 WBE	5717 E. THOMAS RD., #3 SCOTTSDALE, AZ 85251-
CONTRACTOR, GENERAL	ACL CONTRACTING EVE NICKOLAISEN	(602) 985-1884 M/WBE	P.O. BOX 20488 MESA, AZ 85215-
CONTRACTORS BOOKS, NEWSPAPERS	CASA FENIX MERCHANDISING, INC. YOLANDA COLLAZOS KIZER	(602) 252-4050 M/WBE	1033 E. JEFFERSON, #500 PHOENIX, AZ 85034-
CONTRACTORS STREET ACCESSORY	STREET UTILITY ADJUSTERS ROSEANN E. MIZIOCH	(602) 997-2154 WBE	716 E. ROSE GARDEN LN. PHOENIX, AZ 85024-
COUNSELING SERVICES	DAWSON COUNSELING SERVICES EUGENE DAWSON, Ph.D.	(602) 954-6255 MBE	P.O. BOX 80352 PHOENIX, AZ 85060-
DATA PROCESSING	CIERRA CONSULTING COMPANY CLAUDIA A. BENNETT	(602) 596-1366 WBE	8687 E. VIA DE VENTURA, #200 SCOTTSDALE, AZ 85258-
DECAL & SIGN SILKSCREEN PRINTING	STEVENS DECAL COMPANY BETH SOPKO	(602) 269-7758 WBE	3336 W. McDOWELL RD. PHOENIX, AZ 85009-
DESIGN ENGINEER, ELECTRONIC COMPUTERS	VALTRONICS ENGINEERING & MANUFACTURING LORENZO J. VALENZUELA	(602) 937-0373 MBE	6602 N. 58TH DR. GLENDALE, AZ 85301-
DESIGN OF TELECOMMUNICATION PRODUCTS	FANS TELECOM, INC. DR. YUAN-NENG FAN	(602) 948-4928 MBE	7850 E. EVENS RD., #103 SCOTTSDALE, AZ 85260-
DIAMOND TIPPED CUTTING TOOLS	SPECIALTY SALES, INC. E.J. CRUICKSHANK	(612) 453-3087 MBE	8629 JEFFERSON HWY. OSSEO, MN 55369-
DISABILITY RELATED CONSULTING	ABILITIES UNLIMITED, INC. BILL SCOTT	(602) 953-7755 MBE	11811 N. TATUM BLVD, #3031 PHOENIX, AZ 85028-

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DISTRIBUTOR OF MANUFACTURED PRODUCTS	UNIVERSAL PRODUCTS DISTRIBUTION, INC. MICHAEL R. PICONE	(602) 496-5676 MBE		P.O. BOX 51954 PHOENIX, AZ 85076-1954
DISTRIBUTOR OF PLAYING CARDS & GAMES	DAVIS DISTRIBUTORS, INC. CYNTHIA DAVIS	(305) 558-1161 WBE		2450 WEST 82ND STREET #202 HIALEAH, FL 33016-
DISTRIBUTOR, SHOES, BOOTS, RUBBERBANDS	GOLDWATER INDUSTRIES, INC. JACK WANG	(310) 538-4560 MBE		17221 S. WESTERN AVE. GARDENA, CA 90247-
DRAFTING SERVICE	CHANDLER DRAFTING SERVICE TRACY D. CHANDLER	(602) 582-4892 WBE		20626 N. 4TH AVE. PHOENIX, AZ 85027-
ELECTRICAL CONSTRUCTION	ELECTRICAL CONCEPTS BRUCE D. JACKSON	(602) 934-2986 MBE		5825 W. HARMONT DR. GLENDALE, AZ 85302-
ELECTRICAL CONTRACTING	AZTECA ELECTRICAL CONSTRUCTION, INC. CARLOS YADO	(602) 375-0372 MBE		18426 N. 2N DRIVE PHOENIX, AZ 85023-
ELECTRICAL CONTRACTING	YOUNG ELECTRICAL SERVICES TED YOUNG, PRESIDENT	(602) 939-8773 MBE		6512 N. 60TH AVE. GLENDALE, AZ 85301-
ELECTRICAL CONTRACTOR	C-3 ENERGY CORP. MARIO CORRAL	(602) 968-1515 MBE		1440 S. PRIEST, #101 TEMPE, AZ 85281-
ELECTRICAL CONTRACTOR	MARTINEZ ELECTRIC FRANCISCO J. MARTINEZ	(602) 531-5219 MBE		3109 W. ROOSEVELT PHOENIX, AZ 85009-
ELECTRICAL CONTRACTOR	NEW RIVER ELECTRIC, INC. JEANIE EISCHENS	(602) 780-9516 WBE		2007 W. ROSE GARDEN LN. PHOENIX, AZ 85027-
ELECTRICAL CONTRACTOR, COMMER & INDUSTR.	HERNANDEZ ELECTRICAL, INC. AUGUSTIN HERNANDEZ	(602) 987-7271 MBE		101 W. HATCHER ROAD PHOENIX, AZ 85021-
ELECTRICAL CONTRACTOR, COMMER/INDUSTR.	EXPERT ELECTRIC, INC. LARRY R. WRIGHT	(602) 254-6741 MBE		1119 GRAND AVENUE PHOENIX, AZ 85007-
ELECTRICAL DESIGN FOR AIRPORTS	A.J. REITER ELECTRICAL DESIGN ALMA J. REITER	(602) 992-1091 DBE		15609 N. 21ST STREET PHOENIX, AZ 85022-
ELECTRICAL ENGINEERING	R.A. ALCALA' & ASSOC., INC.	(602) 744-3353 MBE		P.O. BOX 27838 TUCSON, AZ 85726-
ELECTRICAL/MECHANICAL ENGINEERING	JODDELL ASSOCIATES JOSEPH OGUNDIJI, P.E.	(602) 949-8901 MBE		6720 E. BELLEVIEW ST. SCOTTSDALE, AZ 85257-3225
ELECTRONIC COMMUN. SALES & SERV.	CHAMBERS ELECTRONIC COMMUNICATIONS ROXANNE R. CHAMBERS	(602) 275-7575 WBE		313 S. 36TH ST. PHOENIX, AZ 85034-
ENGINEERING	KAMALTEK SERVICES RAMAIYER SAINATH	(909) 988-6031 MBE		1806 E. 5TH STREET ONTARIO, CA 91764-2206

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ENGINEERING & MANAGEMENT CONSULTANT	SNI INTERNATIONAL RESOURCES, INC. LUPE CARBAJAL	(602) 285-1331	MBE	4041 N. CENTRAL AVE., #1470 PHOENIX, AZ 85012-3314
ENGINEERING BRIDGES, TRANSPORTATION	ATHALYE CONSULTING ENGINEERS ASHOK G. ATHALYE	(714) 837-6749	MBE	23201 MILL CREEK, #240 LAGUNA HILLS, CA 92653-
ENGINEERING CIVIL, STRUCTURAL DESIGN	SVR, INC. SEETHA V. RAMAIAH	(602) 893-8919	MBE	4636 E. CARMEN PHOENIX, AZ 85044-
ENGINEERING SERVICES	ROBERT YOUNG ENGINEERS, INC. ROBERT A. YOUNG	(602) 937-8747	MBE	7116 N. 63RD DR. GLENDALE, AZ 85021-
ENGINEERING SERVICES	TRANSPORTATION ASSOCIATES, INC. ED HALL	(505) 275-0228	MBE	1000 EUBANK N.E., #D ALBUQUERQUE, NM 87112-
ENGINEERING STRUCTURAL & CIVIL	BENITO A. SINCLAIR & ASSOCIATES, INC. BENITO A. SINCLAIR	(602) 968-2848	MBE	325 E. SOUTHERN AVE., #120 TEMPE, AZ 85282-
ENGINEERING, CIVIL/STRUCTURAL & SURVEY	MOREA-HALL ENGINEERING, INC. CLAUDIA MOREA	(602) 246-8969	WBE	1820 W. MARICOPA FREEWAY PHOENIX, AZ 85007-
ENGINEERING, ELECTRICAL/MECHANICAL	NP ENGINEERING, INC. ANDREW PANOPIO	(602) 265-1559	MBE	3831 N. 15TH AVE. PHOENIX, AZ 85015-
ENGINEERING, FULL SERVICE	KULKARNI ENGINEERING CO., INC. YASHAVANT V. KULKARNI	(602) 993-0474	MBE	2130 E. KALER DR. PHOENIX, AZ 85020-4725
ENGINEERING, CIVIL, STRUCTURAL, ASBESTOS	IAE, INC. CONSULTING ENGINEERS ARTHUR LORING	(602) 224-9590	MBE	4120 N. 20TH STREET, #B PHOENIX, AZ 85016-
ENGINEERING, GEOTECH., CIVIL, ENVIRONMENT.	SOTA ENVIRONMENTAL TECHNOLOGY INC. GENE BERKLAND	(602) 265-8554	MBE	1571 E. CHEERY LYNN PHOENIX, AZ 85014-
ENGLISH/SPANISH TRANSLATIONS	DE PANAMA ENTERPRISES WINSTON F. PEART	(602) 846-4046	MBE	7517 W. MINNEZONA AVE. PHOENIX, AZ 85033-1218
ENGRAVED AWARDS, GIFTS, SIGNAGE	THE INCREDIBLE MACHINE, INC. JAN SCOTT	(602) 931-3181	WBE	4703 W. OLIVE AVE., #2 GLENDALE, AZ 85302-
INTERNAL THERAPIES	CREATIVE HEALTH CARE SERVICES, INC JUDY M. LEWIS	(602) 838-1315	MBE	3280 S. COUNTRY CLUB WAY, #112 TEMPE, AZ 85282-
ENVIROMENTAL CONSULTING	HARRIS ENVIROMENTAL GROUP LISA HARRIS	(602) 828-7648	WBE	1749 E. 10TH ST. TUCSON, AZ 85719-
ENVIROMENTAL ENGINEERING	YOUNG'S ENVIRONMENTAL SERVICES CO., INC. STEPHEN YOUNG	(714) 891-4322	MBE	P.O. BOX 884 WESTMINSTER, CA 92684-0884
ENVIROMENTAL TESTING, WATER, SOILS, HAZMAT	TURNER LABORATORIES, INC. NANCY D. TURNER	(602) 882-5880	WBE	1844 W. GRANT ROAD, #104 TUCSON, AZ 85745-

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ENVIRONMENTAL & OCCUPATIONAL CONSULTING	ENVIROMED, INC. STEVE PIKE, M.D.	(602) 881-1000 MBE		4400 E. BROADWAY, #300 TUCSON, AZ 85711-
ENVIRONMENTAL ASSESSMENTS, TECH. WRITING	PSM 2 JULIA E. ELLEGOOD	(602) 277-7884 WBE		2515 E. THOMAS RD., #16-762 PHOENIX, AZ 85016-
ENVIRONMENTAL PLANNING SERVICES	JAC PLANNING, CORP. JEAN A. CELENDER	(516) 487-4549 WBE		8 BOND STREET, #300 GREAT NECK, NY 11021-
EROSION CONTROL PRODUCTS	GABIONS WEST, INC. VELDA ANDERSON	(800) 851-3166 DBE		P.O. BOX 2508 WINDOW ROCK, AZ 85152-2508
ESCROW SEVICES	NETWORK ESCROW & TITLE AGENCY, INC. SUSAN M. BUDNIK	(602) 951-7575 WBE		3225 N. CENTRAL AVE. #100 PHOENIX, AZ 85012-
EXCAVATING & GRADING	M-D EXCAVATING & GRADING MONICA DAHLQUIST	(602) 000-0000 WBE		P.O. BOX 1052 APACHE JUNCTION, AZ 85217-
EXCAVATING AND GRADING	EARTHMOVERS, INC. JODY TRENTER	(602) 998-5406 WBE		8604 E. JENAN DR. SCOTTSDALE, AZ 85260-
EXCAVATION, GRADING, OIL SURFACING	CAMINO DURO, INC. LUPE D. PRUETT	(602) 963-8283 MBE		P.O. BOX 895 CHANDLER, AZ 85244-
FABRICATOR OF NATURAL STONE PRODUCTS	INTERNATIONAL MARBLE DISTRIBUTORS, INC. ORLA LARSON	(602) 438-1449 WBE		3104 S. 52ND STREET TEMPE, AZ 85282-
FACILITIES PLANNING, ANALYSES	FACILITIES PLANNING & RESEARCH MAUNEL MARTI	(602) 943-1751 MBE		1918 E. LANE AVE. PHOENIX, AZ 85020-
FENCE, GUARDRAIL CONSTRUCTION	PHILLIPS THREE, INC. PATSY M. CRANDALL	(602) 772-1332 WBE		1012 STIRRUP HIGH DRIVE WEST DEWEY, AZ 86327-
FENCES, GUARDRAILS, SIGNS-FURNISH/INSTALL	FIVE G INC. GAIL GRAY	(602) 437-0201 WBE		3801 EAST SUPERIOR AVENUE PHOENIX, AZ 85040-
FENCING GUARDRAIL CONTRACTING	FENCE ERECTORS, INC. CAROL ENRIQUEZ,	(602) 252-1195 MBE		P.O. BOX 15857 PHOENIX, AZ 85060-5857
FIRE PROTECTION CHEMICALS	ARIZONA FIRE BRAKE DIANE BRADY	(602) 924-8528 WBE		614 N. LOS ALAMOS MESA, AZ 85213-
FIRE SPRINKLER SYSTEMS SALES & INSTALL.	ATLAS AUTOMATIC SPRINKLER Co. Sandra Lee Hayer	(602) 516-8429 WBE		3148 W. Westcott Drive Phoenix, AZ 85027-
FLOOR & WINDOWCOVERINGS, INTERIOR DECOR.	DESIGNS OF TODAY RONALD GOMEZ	(602) 759-5757 MBE		2921 E. REDWOOD LN. PHOENIX, AZ 85048-
FLOOR COVERING CONTRACTOR	M & J INDUSTRIES, INC. JAMES BACA	(602) 256-2699 MBE		P.O. BOX 2415 PHOENIX, AZ 85002-

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FLOOR COVERING INSTALLING	RAMIREZ FLOOR COVERING, INC. JOHN Y. RAMIREZ	(602) 275-7571 MBE		3308 E. MADISON ST. PHOENIX, AZ 85034-
FLOOR COVERING SALES & INSTALLATION	APPLE DISCOUNT CARPET NILESH C. HINCOHA	(602) 829-8239 MBE		10929 E. APACHE TRAIL APACHE JUNCTION, AZ 85220-
FLOORING TERRAZZO INSTALLATION	ARIZONA TERRAZZO COMPANY DAVID F. COTA	(602) 278-3770 MBE		2715 W. LINCOLN ST. PHOENIX, AZ 85009-
FOOD SERVICE, CATERING	MINGAS MEXICAN FOOD RESTAURANT DOMINGA GARCIA	(602) 978-5167 M/WBE		4323 W. CACTUS RD. GLENDALE, AZ 85304-
FULL SVC. VENDING, CATERING, CONCESSION	L/K SERVICES EDWARD L. KNOX	(602) 470-0474 MBE		P.O. BOX 17882 PHOENIX, AZ 85011-
GENERAL BUILDING CONTRACTOR	BARCON CORPORATION FRED BARCON	(602) 473-3531 MBE		P.O. BOX 370 MIAMI, AZ 85539-
GENERAL CONSTRUCTION	JIM CASTANEDA CONSTRUCTION JIM CASTANEDA	(602) 899-8503 MBE		401 N. ALMA SCHOOL RD., #9 CHANDLER, AZ 85224-
GENERAL CONSTRUCTION	P.P.E.G., INC. NICANOR C.R. ORTEGA	(602) 461-9816 MBE		240 S. COUNTRY CLUB DR. MESA, AZ 85210-
GENERAL CONSTRUCTION	TAPPAN SPRINGS CONSTRUCTION LORENZO ROBBINS	(602) 283-8824 MBE		P.O. BOX 47 CAMERON, AZ 85020-
GENERAL CONSTRUCTION AGGREGATE	RODRIGUEZ GENERAL CONTRACTORS CO. MARCO A. RODRIGUEZ	(602) 912-9200 MBE		2701 E. CAMELBACK RD., #341 PHOENIX, AZ 85016-
GENERAL CONTRACTING	MALCOM CONSTRUCTION RUDY MALDONADO	(602) 243-1278 MBE		3029 E. SOUTHERN AVE PHOENIX, AZ 85040-
GENERAL CONTRACTING & ENGINEERING	SANDSTORM CONSTRUCTION RAMON MURO	(602) 843-4622 MBE		3719 W. WINDROSE PHOENIX, AZ 85029-
GENERAL CONTRACTING CO.	VALCO CONSTRUCTION CO., INC. RAFAEL VALENZUELA JR.	(602) 937-2042 MBE		6602 N. 58TH DR. GLENDALE, AZ 85301-
GENERAL CONTRACTOR	DAV CONTRACTING, INC. DANIEL A. VILLA	(602) 245-2121 MBE		5861 N. 55TH AVE., #1 GLENDALE, AZ 85301-
GENERAL CONTRACTOR	FORSITE DESIGN & CONSTRUCTION, INC. A. LESLIE ROZZELL	(602) 820-1345 WBE		124 W. ORION, #3 TEMPE, AZ 85283-
GENERAL CONTRACTOR	SUN EAGLE CORPORATION MARTIN ALVAREZ	(602) 961-0004 MBE		461 N. DEAN AVE, CHANDLER, AZ 85226-
GENERAL CONTRACTOR	THE POLOTE CORPORATION BENJAMIN R. POLTE, SR.	(912) 232-1188 MBE		P.O. BOX 1486 SAVANNAH, GA 31498-1486

MARICOPA COUNTY
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Business Type	Firm Contact Name	Phone M/WBE Status	Address
GENERAL CONTRACTOR, BUILDING	SIMPSON GENERAL CONTRACTING MIKE SIMPSON	(602) 268-2220 MBE	P.O. BOX 20785 PHOENIX, AZ 85036-
GENERAL CONTRACTOR, BUILDINGS	JMS CONSTRUCTION CO. JOE SANCHEZ	(602) 249-3494 MBE	6628 N. 16TH DRIVE PHOENIX, AZ 85015-
GENERAL CONTRACTOR, MANAGEMENT & HIGHWAY	SWENGEL-ROBBINS INC. S.K. SWENGEL	(602) 268-1724 MBE	837 E. SOUTHERN AVE. PHOENIX, AZ 85040-3144
GENERAL CONTRACTOR, RESID/COMMERCIAL	McINTYRE CONSTRUCTION, INC. SUSAN B. MCINTYRE	(602) 820-6907 WBE	1615 E. GUADALUPE RD., #2 TEMPE, AZ 85283-
GENERAL CONTRACTORS	BLUCOR CONTRACTING, INC. GORDON BLUTH	(602) 970-3978 MBE	6330 E. THOMAS RD., #324 SCOTTSDALE, AZ 85251-
GENERAL ENGINEERING	JOE PEREZ CONSTRUCTION JOE S. PEREZ	(602) 940-1575 MBE	P.O. BOX 1437 GILBERT, AZ 85229-
GENERAL ENGINEERING CONSTRUCTION	ESKY BENAVIDEZ CORPORATION	(209) 728-2073 MBE	P.O. BOX 96 DOUGLAS FLAT, CA 95229-
GENERAL ENGINEERING PAVING & GRADING	SIERRA GRADING & PAVING, CO. PETER R. RAMIREZ	(602) 820-9578 MBE	5235 S. KYRENE #202 TEMPE, AZ 85283-
GENERAL ENGINEERING, HYDROELECTRIC	SITE CONSTRUCTORS, INC. HOWARD S. HORN	(916) 342-8545 MBE	P.O. BOX 6254 CHICO, CA 95927-
GENERAL ENGINEERING, PAVING & GRADING	COAST GRADING CO., INC. SAMMY R. THOMAS	MBE	P.O. BOX 1152 RAMONA, CA 92065-
GENERAL ENGINEERING/CONSTRUCTION	HJE GENERAL CONTRACTING, INC. HERMAN ELLER	(602) 843-2252 MBE	5930-10 W. GREENWAY RD., #200 GLENDALE, AZ 85306-
GEOGRAPHIC INFORMATION SYSTEMS	SANDRA M. WEIR AICP SANDRA M. WEIR	(602) 483-8749 WBE	7520 E. VIA ESTRELLA AVE. SCOTTSDALE, AZ 85258-
GEOGRAPHIC INFORMATION SYSTEMS CONSULT.	GIS SOUTHWEST, INC. LEENA RAVAL	(602) 268-5080 MBE	1245 E. TOPEKA DR. PHOENIX, AZ 85024-
GEOMEMBRANE SYSTEMS INSTALLATION	FIELD LINING SERVICES, INC. PHILLIP V. RAMOS	(602) 269-1255 MBE	P.O. BOX 14918 PHOENIX, AZ 85063-
GEOTECHNICAL ENGIN. & MATERIAL TEST	ATL TESTING LABORATORIES FRANK C. RIVERA	(602) 241-1097 MBE	2922 WEST CLARENDON PHOENIX, AZ 85017-
GEOTECHNICAL ENGINEERING	DESERT LAND ENGINEERING RICK GUTIERREZ	(602) 265-5320 MBE	4621 N. 16TH ST., #A115 PHOENIX, AZ 85016-
GEOTECHNICAL MATERIALS TESTING	ARIZONA STRUCTURAL INSPECTION, INC. JOHN C. SAVOIA	(602) 273-6310 WBE	1835 E. 6TH ST., #23 TEMPE, AZ 85281-

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GLASS, GLAZING	GLENDALE GLASS, INC. RAYMOND E. NUNEZ	(602) 937-1621 MBE	5412 W. GLENDALE GLENDALE, AZ 85301-
GLASS/GLAZING SALES SERVICE	BILLY'S GLASS WILLIAM CHVARIA	(602) 268-8652 MBE	416 W. McNIEL PHOENIX, AZ 85041-
GRADING AND PAVING CONTRACTOR	INCA CONTRACTING CO. JOSE CASTILLO	(602) 821-0715 MBE	95 N. ARIZONA PL., # 4 CHANDLER, AZ 85225-
GRAPHIC DESIGN, ARCHITECTURAL MODELS	ERSTIKOS MULTI-MEDIA PRODUCTION CO. M.SIMONE S. GRAY	(602) 352-7283 WBE	1356 E. 8TH STREET TEMPE, AZ 85281-4303
GUARD RAIL, FENCING INSTALLATION	AMERICAN TRANSWEST, INC. RUBEN MENDOZA	(602) 893-8511 MBE	P.O. BOX 50907 PHOENIX, AZ 85076-0907
GUARD RAILS, SIGNS & TRAFFIC CONTROL	ARIZONA HIGHWAY SAFETY SPECIALISTS, INC. KAREN F. THOMPSON	(602) 776-0204 WBE	3260 TOWER DRIVE PRESCOTT, AZ 86301-
HARDWARE STORE, RETAIL	STEVE'S TRUE VALUE HARDWARE STEVE YEE	(602) 788-1980 MBE	731 E. UNION HILLS RD. PHOENIX, AZ 85022-
HERBICIDE APPLICATION, WEED CONTROL	EVERGREEN SPRAY SERVICE, INC. PAULA D. GROSS	(602) 258-5041 WBE	279 SHADOW VALLEY RANCH ROAD PRESCOTT, AZ 86301-
HIGHWAY CONSTRUCTION	EBCNY CONSTRUCTORS, INC. EARL BARNETT	(602) 243-6652 MBE	1734 E. BROADWAY PHOENIX, AZ 85040-
HOME REPAIR & REHABILITATION	TAS HOME IMPROVEMENTS & REPAIRS ANTONIO S. AMAYA	(602) 547-1794 MBE	3766 W. ACOMA DR. PHOENIX, AZ 85023-
HUMAN RELATIONS TRAINING	A+ TRAINING CYNTHIA D. HAMMOND	(602) 833-4876 WBE	P.O. BOX 30612 MESA, AZ 85275-
HUMAN RESOURCE TRAINING	CULTURAL DIVERSITY EDUCATION RES., INC. CHARLES L. JOHNSON	(602) 838-8149 MBE	1926 E. HERMOSA DR. TEMPE, AZ 85202-5803
HUMAN SERVICES, PROGRAM DEVELOPMENT	BARBARA MOODY CONSULTANT BARBARA MOODY	(602) 274-4926 WBE	1537 W. CLARENDON PHOENIX, AZ 85015-
HUMAN SERVICES/PROGRAM CONSULTING	B.J. TATRO CONSULTING B.J. TATRO	(602) 494-9848 WBE	3420 E. SHEA BLVD. SUITE 199 PHOENIX, AZ 85028-
HYDRAULIC ENGINEER	WEST CONSULTANTS, INC. DAVID T. WILLIAMS	(619) 431-8113 MBE	2111 PALOMAR AIRPORT ROAD #180 CARLSBAD, CA 92009-
HYDROLOGY	HSS HYDROLOGY SUPPORT SERVICES FREDDY E. ARTIAGA	(602) 838-4015 MBE	3309 S. HAZELTON LN. TEMPE, AZ 85282-
IMPORT/EXPORT MGTG.	BALBOA INTERNATIONAL ALVINO HART	(602) 968-0458 MBE	1415 N. COUNTRY CLUB DR. MESA, AZ 85201-

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INFO. RETRIEVAL SERVICES CONSULTANT	CASTILLO COMPANY, INC. EDUARDO A. CASTILLO	(602) 231-9000 MBE		P.O. BOX 21087 PHOENIX, AZ 85034-6821
INTERIOR CONSULTANT	FABRIC WORKS LAUREEN ABBOTT	(602) 273-6662 WBE		1727 N. 32ND STREET PHOENIX, AZ 85008-
INTERIOR DECORATING /WINDOW TREATMENT	ALL ABOUT DESIGN, INC. PAMELA MILLIKAN	(602) 566-3339 WBE		P.O. BOX 1981 SUN CITY, AZ 85372-
INTERIOR DESIGN & FLOOR COVERING	INTERIOR DESIGN AND SUPPLY JANET LA PLANTE	(602) 863-1218 WBE		641 W. PORT AU PRINCE PHOENIX, AZ 85023-
INTERIOR DESIGN AND FURNISHINGS	HABITAT INTERIORS CAROL A. VETRANO	(602) 797-1175 WBE		10713 N. POMEGRANATE DR. TUCSON, AZ 85737-
INTRASTATE DELIVERY OF GEN. FREIGHT	OJC TRANSFER & DELIVERY SERVICES, INC. JAMES L. WAGONER	(602) 730-9076 MBE		P.O. BOX 56965 PHOENIX, AZ 85017-
INVESTMENT SERVICES	FIRST COLORADO FINANCIAL SERVICES CO.	(303) 287-8210 WBE		1099 18TH ST., #2720 DENVER, CO 80202-
JANITOR SUPPLIES	R-B ENTERPRISES GARY L. RAPE	(310) 673-6208 MBE		1034 W. I STREET, #200 ONTARIO, CA 91762-
JANITORIAL SERVICE	CATHAYAN MAINTENANCE SHELLY WONG	(818) 793-3041 M/WBE		620 S. RAYMOND AVE., #2 PASADENA, CA 91105-
JANITORIAL SERVICE	PATTERSON JANITORIAL SERVICE COMPANY RAYMOND PATTERSON	(602) 844-0804 MBE		7602 N. 12TH ST. APT #238 PHOENIX, AZ 85020-
JANITORIAL SERVICES, HOSPITAL HOUSECLEAN	TELTARA, INC. MICHAEL CAMPBELL	(602) 451-7000 MBE		9700 N. 91ST. STREET, #119 SCOTTSDALE, AZ 85258-
JANITORIAL SUPPLIES & SERVICES	CROWN INTERNATIONAL TREVOR GRIFFITHS	(602) 834-9136 MBE		2303 N. 44TH ST. #14-113 PHOENIX, AZ 85088-
JANITORIALC CLEANING, CONST. SERVICE	TOP QUALITY CLEANING THOMAS C. PETERSON	(602) 838-7990 MBE		1526 W. NARANJA MESA, AZ 85202-
KEYPAD & INTERFACE ASSEMBLIES	INTERFACE DATA SYSTEMS, INC. MAHASEN SAMARAVIJAYA	(602) 484-0084 MBE		3145 W. LEWIS AVE. PHOENIX, AZ 85009-
LAND RIGHTS, ACQUISITIONS	DIVERSIFIED R/W SERVICES JOANNE O. BOORSMA	(602) 265-5540 WBE		77 E. COLUMBUS AVE., #215 PHOENIX, AZ 85012-2352
LAND SURVEYING	ALCOCER LAND SURVEYORS RICHARD ALCOCER	(602) 263-7846 MBE		3501 N. 16TH STREET PHOENIX, AZ 85016-
LAND SURVEYING & MAPPING	COAST SURVEYING, INC. RUEL DEL CASTILLO	(714) 453-8801 MBE		125 PACIFICA, #100 IRVINE, CA 92718-

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LANDSCAPE ARCHITECT	RECON CONSULTANTS, INC. LORI JONES WOODS	(602) 325-9977 WBE		3443 N. CAMPBELL AVE., #100A TUCSON, AZ 85719-
LANDSCAPE ARCHITECTS	SAKATO & SAKATO LANDSCAPE ARCHITECTS GARY M. SAKATO	(602) 258-7777 MBE		2828 N. CENTRAL AVE., # 755 PHOENIX, AZ 85004-
LANDSCAPE ARCHITECTURE	BOWDEN DESIGN GROUP, INC. LAURA BOWDEN	(602) 443-0223 WBE		7100 E. LINCOLN DR., # A-106 SCOTTSDALE, AZ 85253-
LANDSCAPE ARCHITECTURE	C.F. SHULER INC. CAROL F. SHULER	(602) 483-0535 WBE		13901 N. 73RD ST., # 207 SCOTTSDALE, AZ 85260-
LANDSCAPE ARCHITECTURE/PLANNING	LOGAN SIMPSON & DYE CARYN LOGAN HEAPS	(602) 967-1343 WBE		398 SOUTH MILL AVE. #300 TEMPE, AZ 85281-
LANDSCAPE ARCHITECTURE/URBAN PLANNING	WHEAT-GALLAHER & ASSOCIATES JOANNE GALLAHER	(602) 884-7911 WBE		377 S. MEYER AVE. TUCSON, AZ 85701-
LANDSCAPE LAWN MAINTENANCE	CURBSIDE LANDSCAPING, INC. MANUEL O. DOMINGUEZ	(602) 937-7797 MBE		8334 N. 58TH AVE. GLENDALE, AZ 85302-
LANDSCAPE MAINTENANCE	BARROW'S ENVIRONMENTAL INDUSTRIES KELLY K. BARROW	(602) 494-9094 WBE		13617 N. 49TH STREET SCOTTSDALE, AZ 85254-
LANDSCAPE MAINTENANCE/INSTALLATION	SOUTH LAWN DEVELOPERS WILL DAVIS II	(602) 243-9273 MBE		8621 SOUTH 14TH PLACE PHOENIX, AZ 85040-
LANDSCAPING & DESIGN	DESERT GREEN LANDSCAPING & DESIGN, INC. JAMES SHIEH	(602) 961-1915 MBE		638 N. POPLAR COURT CHANDLER, AZ 85226-
LASER ENGRAVING	LEACH LASER TRACY NORRIS	(602) 998-3336 WBE		7662 E. GRAY RD, #102 SCOTTSDALE, AZ 85260-
LASER PRINTER CARTRIDGE REBUILDER	CARTRIDGE CARE, INC. IRENE CONLAN	(602) 998-3359 WBE		1444 N. 73RD ST. SCOTTSDALE, AZ 85260-
LEASE/PURCHASE EQUIPMENT	COMMERCIAL LEASING SERVICES RICHARD F. POLANCO	(602) 461-9280 MBE		520 N. STAPLEY, #192 MESA, AZ 85203-7266
LEGAL SERVICES	AARON KIZER, ATTORNEY AT LAW ARRON KIZER	(602) 253-2523 MBE		320 E. MCDOWELL RD., #315 PHOENIX, AZ 85004-
LEGAL SERVICES	AMY S. FISHER, P.C. AMY S. FISHER	(602) 395-9075 WBE		7301 N. 16TH ST. #103 PHOENIX, AZ 85020-
LEGAL SERVICES	DAY, KAVANAUGH & BLOMMEL, P.C. SANDRA A. DAY	(602) 838-4425 WBE		P.O. BOX 24804 TEMPE, AZ 85285-4804
LEGAL SERVICES	GACNA & HAYNES, P.C. FRANCES J. HAYNES, ESQ.	(602) 230-2636 M/WBE		3101 N. CENTRAL, #720 PHOENIX, AZ 85012-

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LEGAL SERVICES	JULIE M. LEMMON, ATTORNEY AT LAW JULIE M. LEONNON	(602) 274-7005 WBE	1212 E. OSBORN, #107 PHOENIX, AZ 85014-
LEGAL SERVICES	SUSAN E. WELLS-SHAPIRO, P.C. SUSAN E. WELLS-SHAPIRO	(602) 482-9009 WBE	4001 E. BELL RD., #114 PHOENIX, AZ 85032-
MACHINING AND CUSTOM WORK	J. H. CUSTOM MACHINE WORK JESUS HERRERA	(602) 272-5686 MBE	3127 W. VIRGINIA, #9 PHOENIX, AZ 85009-
MAIL PROCESSING & LIST MANAGEMENT	INTERNATIONAL MAIL PROCESSING, INC. DAN SARCEDA	(602) 484-9445 MBE	2736 W. McDOWELL RD. PHOENIX, AZ 85009-
MANAGEMENT CONSULTANT	KOLBE CONCEPTS, INC. KATHY KOLBE	(602) 840-9770 WBE	3421 N. 44TH STREET PHOENIX, AZ 85018-
MANAGEMENT CONSULTANT	SUAREZ ENTERPRISES VICTOR SUAREZ	(602) 931-3166 MBE	4226 W. BARBARA AVE. PHOENIX, AZ 85051-
MANAGEMENT CONSULTANT	SUNRISE TECHNOLOGIES, INC. KIMANH A. DAVIS	(602) 575-9200 M/WBE	7400 N. ORACLE RD., #366 TUCSON, AZ 85704-6342
MANAGEMENT CONSULTANT & HUMAN SERVICES	FOX SYSTEMS, INC. SUSAN J. FOX	(602) 968-1170 WBE	1730 S. JENTILLY LN., #D 103 TEMPE, AZ 85281-5704
MANAGEMENT CONSULTING, TQM, PROJECT	IEE CONSULTING, INC.	(602) 998-3896 WBE	8208 E. ROVEY AVE. SCOTTSDALE, AZ 85250-
MANAGEMENT & ADMINISTRATIVE SERVICES	THE WRITE SOURCE PAULETTE POHLMANN	(602) 967-9304 WBE	124 W. ALAMEDA DR. TEMPE, AZ 85282-3506
MANAGEMENT & TRAINING SERVICES	MEDICAL BUSINESS RESOURCE CENTER MARILYN C. DUPONT	(602) 279-2655 WBE	1221 E. OSBORN RD., #101 PHOENIX, AZ 85014-
MANUFACT., INSTALL, FIBER OPTIC NETWORKS	FIBER SPECIALIST, INC. MITZI D. DOOLEY	(602) 585-5069 WBE	P.O. BOX 30426 PHOENIX, AZ 85046-
MANHOLES -INSTALL PRECAST	PREACH MASONRY, INC PHILLIP L. PREACH	(602) 242-2007 MBE	1601 W. HATCHER PHOENIX, AZ 85021-
MANUF. OF CLEANING PRODUCTS	HULBERT & RODGERS, INC. HULBERT BOLLES	(404) 263-7765 MBE	6050 PEACHTREE PKWY., #340-193 NORCROSS, GA 30092-
MARKET ADVERTISING SPECIALTY ITEMS	ADVERTISING SPECIALTIES BY WOLF SANDRA WOLF	(602) 984-1712 WBE	9452 E. FAIRWAY MESA, AZ 85207-
MASONRY CONTRACTING	F.G. MABANTE MASONRY, INC. FRANK G. MABANTE	(602) 931-7130 MBE	5742 W. MARYLAND GLENDALE, AZ 85301-
MASONRY CONTRACTOR	JIM CELAYA & SONS MASONRY JIM CELAYA	(602) 276-1930 MBE	638 W. CHIPMAN PHOENIX, AZ 85041-

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MASONRY CONTRACTORS	RIVERA MASONRY, INC. ALBERTO RIVERA	(602) 252-3113 MBE		1704 W. LINDEN ST. PHOENIX, AZ 85007-2025
MASS TRANSIT PLANNING	MANUEL PADRON & ASSOCIATES SUE McCLUSKEY	(404) 873-3206 MBE		1175 PEACHTREE ST., NE, #414 ATLANTA, GA 30361-
MECHANICAL & UTILITY CONSTRUCTION	DALLAGO CORPORATION DAVID DALLAGO, JR.	(505) 722-6638 MBE		2411 EAST AZTEC GALLUP, NM 87301-
MECHANICAL, PLUMBING, ELETRICAL CONTR.	NORTHRIDGE MECHANICAL, INC. DANIEL A. ORTEGA	(602) 861-2511 MBE		601 W. BELMONT AVE. PHOENIX, AZ 85021-
MECHANICAL/HVAC	RAMIREZ MECHANICAL SYSTEMS, INC. CARLOS Y. RAMIREZ	(602) 244-8994 MBE		3308 E. MADISON PHOENIX, AZ 85034-
MEDICAL & PERSONAL CARE SUPPLIER	AGINCOURT JANET HEANEY	(516) 538-8735 WBE		368 HAMILTON AVE WEST HEMPSTEAD, NY 11552-
MEDICAL BILLING SERVICE	GALAXY MANAGEMENT SERVICES IZALLA TAYLOR	(602) 277-6129 M/WBE		4325 N. 23RD AVE., #17 PHOENIX, AZ 85015-
MEDICAL EMERGENCY MEDICINE	PATRICIA A. BAYLESS, M.D. DR. PATRICIA A. BAYLESS	(602) 267-5418 WBE		P.O. BOX 5099 PHOENIX, AZ 85019-
MEDICAL EMERGENCY MEDICINE	SUSAN GIN-SHAW, M.D. DR. SUSAN GIN-SHAW	(602) 957-4044 M/WBE		2345 E. THOMAS RD., #310 PHOENIX, AZ 85018-
MEDICAL GENERAL	VLADIMIR TROCHE, M.D. MARY MENCHACO	(602) 561-8636 MBE		6525 W. SACK DR., #208 GLENDALE, AZ 85308-
MEDICAL OB/GYN	GLENN KISHI, M.D. DR. GLENN KISHI	(602) 244-1659 MBE		2255 N. 44TH ST. PHOENIX, AZ 85008-
MEDICAL OB/GYN	LINDA CHAMBLISS, M.D. DR. LINDA CHAMBLISS	(602) 244-1659 WBE		2255 N. 44TH ST. PHOENIX, AZ 85008-
MEDICAL OB/GYN	PATRICIA AGRAHAM, M.D. DR. PATRICIA AGRAHAM	(602) 244-1659 WBE		2255 N. 44TH STREET PHOENIX, AZ 85008-
MEDICAL PATHOLOGIST	JEAN S. MUYAKC, M.D. DR. JEAN S. MUYAKC	(602) 267-5501 WBE		P.O. BOX 5099 PHOENIX, AZ 85010-
MEDICAL PATHOLOGY	R. GEELHA NAIR, M.D. DR. R. GEELHA NAIR	(602) 265-5946 M/WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIARTICS	SUSAN STEPHENS-GROFF, M.D. DR. SUSAN STEPHENS-GROFF	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRIC SERVICES	JULIA KELLY, M.D. DR. JULIA KELLY	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-

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MEDICAL PEDIATRICS	EMILY POLLACK, M.D. DR. EMILY POLLACK	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	LOUANNE HUDGINS, M.D. DR. LOUANNE HUDGINS	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	MARY RIMSZA, M.D. DR. MARY RIMSZA	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	REBECCA WOOD, M.D. DR. REBECCA WOOD	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	ROXANNE HECHT, M.D. DR. ROXANNE HECHT	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	SHEILA GAHAGAN, M.D. DR. SHEILA GAHAGAN	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	SURESH LAL, M.D. DR. SURESH LAL	(602) 267-5404 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	SUSAN GEREN, M.D. DR. SUSAN GEREN	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PEDIATRICS	SYLVIA STRICKLAND, M.D. DR. SYLVIA STRICKLAND	(602) 267-5404 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PSYCHIATRY	MARLIES KORSTEN, M.D. DR. MARLIES KORSTEN	(602) 376-3025 WBE		P.O. BOX 17915 FOUNTAIN HILLS, AZ 85269-
MEDICAL PSYCHIATRY	MARTA BUNUEL - JORDANA, M.D. DR. MARTA BUNUEL - JORDANA	(602) 267-5281 M/WBE		3601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL PULMONARY MEDICINE	SAHBA E. MA'ANI, M.D. DR. SAHBA E. MA'ANI	(602) 225-5660 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICE CARDIOLOGY	RAJUL PATEL, M.D. DR. RAJUL PATEL	(602) 225-5660 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES	ADELE M. O'SULLIVAN, M.D. DR. ADELE M. O'SULLIVAN	(602) 956-5219 WBE		3445 N. 36TH ST., #37 PHOENIX, AZ 85018-
MEDICAL SERVICES	ANA ELIZABETH ORTIZ DE VALDEZ, M.D. ANA ELIZABETH ORTIZ DE VALDEZ	(602) 371-1665 MBE		1749 W. BUTLER DR. PHOENIX, AZ 85021-
MEDICAL SERVICES	ANN LAFOND YOUNG M.D., P.C. ANN LAFOND YOUNG	(602) 984-0322 WBE		4116 N. 65TH ST. SCOTTSDALE, AZ 85251
MEDICAL SERVICES	CLAUDIO C. SABAL, M.D. P.C. DR. CLAUDIO C. SABAL	(602) 431-1453 MBE		2700 W. BASELINE RD., #129 TEMPE, AZ 85282-

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MEDICAL SERVICES	FRANCISCO PENA, M.D. DR. FRANCISCO PENA	(602) 248-8342 MBE	5040 N. 15TH AVE, #301 PHOENIX, AZ 85015-
MEDICAL SERVICES	GALE STEINHAUSER, M.D. GALE STEINHAUSER	(602) 256-5533 WBE	225 W. MADISON ST. PHOENIX, AZ 85003
MEDICAL SERVICES	JANA ROHANAN MANGALAT, M.D. DR. JANA ROHANAN MANGALAT	(602) 225-5660 MBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES	KIM HOOVER, M.D. DR. KIM HOOVER	(602) 267-5333 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES	TERE BUCKSTEIN, M.D. DR. TERE BUCKSTEIN	(602) 267-5404 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES CYTOLOGY	ARLENE H. STONEY, M.D. DR. ARLENE STONEY	(602) 464-1394 WBE	12401 N. 37TH WAY PHOENIX, AZ 85032-
MEDICAL SERVICES DERMATOLOGY	GOSIA NOWAK, M.D. DR. GOSIA NOWAK	(602) 225-5660 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES DIAGNOSTIC	RENATO M. SANTOS, M.D. DR. RENATO M. SANTOS	(602) 267-5361 MBE	P.O. BOX 5099 PHOENIX, AZ 85010-
MEDICAL SERVICES ENDOCRINOLOGY	SYDNEY WESTPHAL, M.D. DR. SYDNEY WESTPHAL	(602) 225-5660 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES INFECTIOUS DISEASES	VIPUL SINGH, M.D. DR. VIPUL SINGH	(602) 225-5660 MBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES INTERNAL MEDICINE	JAYNE PETERSON, M.D. DR. JAYNE PETERSON	(602) 225-5660 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES INTERNAL MEDICINE	LORNA RODRIGUES, M.D. DR. LORNA RODRIGUES	(602) 225-5660 M/WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES INTERNAL MEDICINE	MARCELA MOFFITT, M.D. DR. MARCELA MOFFITT	(602) 225-5660 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES OBGYN	SUN VALLEY OBGYN JACQUELINE M. SOLOMON, D.O.	(602) 242-1412 WBE	1840 W. MARYLAND PHOENIX, AZ 85015-
MEDICAL SERVICES PSYCHIATRY	CAROL J. KLINE, M.D. DR. CAROL KLINE	(602) 340-8010 WBE	101 N. 7TH ST., #262 PHOENIX, AZ 85034-
MEDICAL SERVICES PSYCHOLOGY	LYDIA J. COHAN, M.D. DR. LYDIA J. COHAN	(602) 267-5281 M/WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES RADIOLOGY	ELIZABETH ANN PEARCY, M.D. DR. ELIZABETH ANN PEARCY	(602) 267-5361 WBE	2601 E. ROOSEVELT PHOENIX, AZ 85008-

MARICOPA COUNTY
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MEDICAL SERVICES RADIOLOGY	PETRONIO T. LERONA, M.D. DR. PETRONIO T. LERONA	(602) 267-5333 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES RHEUMATOLOGY	CATHERINE HARMON, M.D. DR. CATHERINE HARMON	(602) 255-5660 WBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL SERVICES, DIAGNOSTIC RADIOLOGY	ARCADIA RADIOLOGY & BREAST CENTER, LTD. PC LORAIN JENNAS	(602) 956-1995 MBE		3260 E. INDIAN SCHOOL RD. #B PHOENIX, AZ 85018-
MEDICAL SUPPLIES & EQUIPMENT	VW INTERNATIONAL SALES VINCENT C. CAMUA, JR.	(602) 548-2483 MBE		10410 N. 31ST AVE. PHOENIX, AZ 85051-
MEDICAL TEMPORARY PERSONEL	TEMPORARY TECHS OF ARIZONA GARNET ISREAL	(602) 990-8629 WBE		3260 N. HAYDEN RD., #201 SCOTTSDALE, AZ 85251-
MEDICAL UNIFORMS & TEXTILE DISTRIBUTOR	NATIONAL APPAREL COMPANY REBA C. GOODIN	(602) 894-4632 WBE		551 S. 48TH STREET, #102 TEMPE, AZ 85281-
MEDICAL, DENTAL & X-RAY, EQUIPMENT	IDEAL MEDICAL SERVICES CO. ANGELA BUFFA	(713) 747-8020 M/WBE		3135 FALL STREET HOUSTON, TX 77054-2201
MEDICAL, PATHOLGY	FELIPE U. LIN, M.D. FELIPE U. LIM	(602) 267-5501 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL, PATHOLOGY	HARLLCRISNA R. DAVE, M.D. DR. HALLCRISNA R. DAVE	(602) 267-5501 MBE		2601 E. ROOSEVELT PHOENIX, AZ 85008-
MEDICAL, PATHOLOGY SERVICES	GLORIA E. CASTRO, M.D. DR. GLORIA E. CASTRO	(602) 267-5501 MBE		P.O. BOX 1913 LICHFIELD PARK, AZ 85340-
MEDICAL, PSYCHIATRIC SERVICES	ELIZABETH YAGER, M.D., P.C. DR. ELIZABETH YAGER	(602) 267-5946 WBE		1917 E. LA VIEVE LN. TEMPE, AZ 85284
MEDICAL, PSYCHIATRIC SERVICES	HILDA S. AMATO, M.D. DR. HIDA S. AMATO	(602) 840-5845 WBE		4519 E. PALO VERDE DR. PHOENIX, AZ 85018
MEDICAL, PSYCHIATRIC SERVICES	MARY ANN PICARDO, D.O. DR. MARY ANN PICARDO	(602) 231-6909 WBE		P.O. BOX 39985 PHOENIX, AZ 85069
MEDICAL, PSYCHIATRIC SERVICES	REGINA LAWLESS, M.D. DR. REGINA LAWLESS	(602) 954-7899 WBE		7119 E. FIRST AVE. SCOTTSDALE, AZ 85251
MEDICAL, PSYCHIATRIC SERVICES	SANDRA FIGUEROA, M.D. DR. SANDRA FIGUEROA	(602) 371-8225 WBE		7219 N. 23RD PLACE PHOENIX, AZ 85020-
MEDICAL, PSYCHOLOGICAL SERVICES	NAEEM PATHAN, M.D. DR. NAEEM PATHAN	(602) 935-2476 MBE		5862 E. KATHLEEN SCOTTSDALE, AZ 85254-
MEDICAL/PSYCHIATRY	LEONARDO GARCIA-BUNUEL, M.D. LEONARDO GARCIA-BUNUEL	(602) 256-5302 MBE		437 E. MARIFOLD LN. TEMPE, AZ 85281

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MESSENGER SERVICE	AERO MESSENGER, INC. KAREN NEES	(602) 253-2229 WBE	P.O. BOX 25369 PHOENIX, AZ 85002-
MICROCOMPUTER TRAINING & COURSE DEVELOP.	TRAINING A LA CARTE JANET CORBOSIERO	(602) 224-9911 WBE	2111 E. HIGHLAND #250 PHOENIX, AZ 85016-
MICROCOMPUTERS SALES/SERVICE	MICROAGE/ADVANCED SYSTEMS CONSULTANTS JUDY FLYNN	(602) 256-6868 WBE	201 N. CENTRAL CONCOURSE LEVEL PHOENIX, AZ 85004-
MICROGRAPHIC PRODUCTS	MIPRO INTERNATIONAL, CORP. JANET ROTTENBERG	(602) 991-3673 WBE	7360 E. ACOMA DR. #7 SCOTTSDALE, AZ 85260-
MOBILE FLEET CLEANING	CLARK'S JESSIE CLARK	(602) 273-7407 MBE	1363 E. STEPHENS DR. TEMPE, AZ 85283-
NEWSPAPER	ARIZONA INFORMANT CHARLES CAMPBELL	(602) 257-9300 MBE	1746 EAST MADISON STREET #2 PHOENIX, AZ 85034-
NEWSPAPER ADVERT., PUBLISH., ART DESIGN	EL SOL DE ARIZONA RAY R. FLORES	(602) 234-3464 MBE	4001 N. 3RD ST. #465 PHOENIX, AZ 85012-
NURSING SERVICES	CARRIGAN & CARRIGAN, INC. ALICE M. CARRIGAN	(602) 277-1807 WBE	5125 N. 16TH ST., #A-104 PHOENIX, AZ 85016-
OCCUPATIONAL THERAPY	AMWAKE REHABILITATION SERVICES CATHLEEM K. AMWAKE	(602) 877-4887 WBE	880 E. VAN BUREN, #108 GOODYEAR, AZ 85338-
ODOR CONTROL & DEODORIZING SERVICE	ODORITE OF ARIZONA ANN BASSO	(602) 756-6611 M/WBE	P.O. BOX 41044 MESA, AZ 85202-
OFFICE & PAPER PROD. ANTENNAS, ELECTR EQU	M & O ENTERPRISES, INC. DR. JOSEPH PARHAM	(602) 644-9037 MBE	2706 E. MAIN ST. MESA, AZ 85213-
OFFICE ADMINISTRATION	PATRICIA BROWN BUSINESS SERVICES PATRICIA BROWN	(602) 946-3732 WBE	8338 E. MEADOWBROOK SCOTTSDALE, AZ 85251-
OFFICE FURNITURE SALES	D & R OFFICE FURNITURE LAURA RUZICH	(602) 938-0244 MBE	4131 W. WOODRIDGE GLENDALE, AZ 85308-
OFFICE FURNITURE SALES & SERVICE	VALDEZ OFFICE ENVIRONMENTS, INC. ERNEST J. SALAZAR	(602) 437-0999 MBE	2850 S. 36TH. STREET PHOENIX, AZ 85034-
OFFICE MACHINES/SALES & SERVICES	U. S. BUSINESS MACHINES, INC. GAIL M. ATKINS	(602) 863-0893 WBE	2855 W. CACTUS RD. #16 PHOENIX, AZ 85029-
OFFICE SUPPLIES	ALL AMERICAN OFFICE PRODUCTS, INC. ANTONIA M. GUTIERREZ	(602) 979-9570 MBE	8301 W. WASHINGTON PEORIA, AZ 85345-
OFFICE SUPPLIES	OASIS OFFICE PRODUCTS, INC. STEPHEN L. GLOVER	(213) 938-6211 MBE	P.O. BOX 19069 LOS ANGELES, CA 90019-

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OFFICE SUPPLIES, PRINTERS, COPIERS	COPELAND ENTERPRISES KELLY COPELAND	(602) 756-2501 MBE		P.O. BOX 27672 TEMPE, AZ 85285-7672
OUTPLACEMENT CONSULTING	CATHERINE H. McCONNELL & ASSOCIATES CATHERINE H. McCONNELL	(602) 951-2999 WBE		6700 E. SOLANO DR. PARADISE VALLEY, AZ 85253-
PAGERS AND AIR TIME DISTRIBUTORS	LIBERTY COMMUNICATIONS, INC. DR. JOSEPH PARHAM	(602) 644-9037 MBE		2706 E. MAIN ST. MESA, AZ 85213-
PAINTING CONTRACTOR	LUCERO PAINTING ELI LUCERO	(602) 481-4737 MBE		2942 E. NORCROFT ST. MESA, AZ 85213-
PAINTING RESIDENCIAL & COMMERCIAL	EL SOL PAINTING ARTHUR G. CRUZ	(602) 936-6943 MBE		11256 W. SOUTHERN TOLLESON, AZ 85353-
PAINTING, COMMERCIAL/INDUSTRIAL	SERRANO PAINTING OSCAR SERRANO	(602) 962-9088 MBE		535 W. IRON AVE., STE 108 MESA, AZ 85210-
PAINTING, SANDBLASTING	COLORCOR PAINTING, INC. MARK A. GONG	(602) 352-0055 MBE		301 N. 37TH DR., #109 PHOENIX, AZ 85009-
PAINTING, STRUCTURES, INDOOR & EXTERIOR	JIM TAPIA PAINTING CO. JIM TAPIA	(602) 973-8625 MBE		5725 N. 37TH AVE. PHOENIX, AZ 95019-
PARALEGAL SERVICES	CLASSIC LEGAL HELP DAWN ELISE BARBION	(602) 263-5002 WBE		4141 N. 9TH STREET, #B18 PHOENIX, AZ 85014-
PARATRANSIT AUTOMATED SCHEDULING SYS.	ON LINE DATA PRODUCTS, INC. MARSHA L. MOORE	(602) 483-3822 WBE		14255 N. 79TH STREET #7 SCOTTSDALE, AZ 85260-
PAVING & GRADING	EAGLE ASPHALT & OIL, INC. MANUEL M. SAVALA	(602) 934-9893 MBE		P.O. BOX 3576 GLENDALE, AZ 85311-3576
PAVING & GRADING	GLENDALE PAVING CORP. FRANK LOZANO	(602) 939-2215 MBE		5719 W. MCLELLAN GLENDALE, AZ 85301-
PAVING & GRADING GEN. CONTRACTING	ARIZONA BITUMALS MIGUEL MIRANDA	(602) 936-8708 MBE		P.O. BOX 48714 PHOENIX, AZ 85075-
PAVING AND GRADING CONSTRUCTION	PUEBLO GRANDE CONSTRUCTION CO. JOSEPH AVINA	(602) 566-1469 MBE		8855 W. AVENIDA DEL SOL PEORIA, AZ 85382-
PAVING ASPHALT, EXCAVATION & CHIP SEAL	A & S PAVING, INC. SAL PEDREGON	(602) 622-6803 MBE		527 W. 29TH STREET TUCSON, AZ 85713-
PEDIATRIC CRITICAL CARE	PAUL H. LIO, M.D. DR. PAUL H. LIO	(602) 238-3563 MBE		1111 E. MCDOWELL RD. PHOENIX, AZ 85201-
PEST CONTROL SERVICE	NO BUGS ALLOWED TERMITE & PEST EDDIE MANCIET	(602) 863-4408 MBE		P.O. BOX 32422 PHOENIX, AZ 85029-

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PETROLEUM PRODUCTS & CORROSION RESISTANT	BLUE CONDOR PRODUCTS COMPANY PETE AVILA, III	(602) 848-6422 MBE	P.O. BOX 56964 PHOENIX, AZ 85079-6964
PHARMACEUTICALS & MEDICAL SUPPLIES	INTERNATIONAL HEALTHCARE PRODUCTS, CORP. MICHAEL MODUTHAGAM	(708) 963-3573 MBE	5120 BELMONT RD., #T DOWNERS GROVE, IL 60515-
PHARMACY RELIEF SERVICE (TEMP PERSNL.)	SCRIPTS RELIEF, INC. MICHELLE McCARVILLE	(602) 952-8604 WBE	4424 E. OSBORN, #1 PHOENIX, AZ 85018-
PHOTOCOPIER, FAX, FURNITURE & SUPPLIES	CACTUS COPIER SUPPLIES LINDA THRASHER	(602) 994-8624 WBE	14435 N. SCOTTSDALE RD. STE # SCOTTSDALE, AZ 85254-
PLUMBING SERVICE AND REMODELING	APACHE PLUMBING SERVICES, INC. PAUL A. GARCIA	(602) 381-1525 MBE	2807 N. 24TH STREET PHOENIX, AZ 85008-
POLICE OFFICERS FOR TRAFFIC CONTROL	RIGHT CHOICE PAULINE ROYBAL	(602) 375-5323 WBE	P.O. BOX 37011 PHOENIX, AZ 85069-
POLICE OFFICERS FOR TRAFFIC CONTROL	RIGHT CHOICE TOO PAULINE ROYBAL	(602) 875-5323 WBE	P.O. BOX 3711 PHOENIX, AZ 85069-
POLITICAL SCIENTIST CONSULTANT	JUDITH LAMARE, Ph.D. DR. JUDITH LAMARE	(916) 447-4956 WBE	1823 11TH STREET SACRAMENTO, CA 95814-
POWER SWEEPING, ASPHALT REPAIRS & INSTALL.	B & B GENERAL ENGINEERING CONTRACTORS BILLY J. BRYANT	(602) 899-1442 MBE	513 E. CHICAGO CIRCLE CHANDLER, AZ 85224-
PRINTER, OFFSET, GRAPHICS	MOUNTAIN STATES PRINTING SUSAN BUSHMAKER	(602) 269-3219 WBE	1408 N. 27TH LANE PHOENIX, AZ 85009-
PRINTING & BINDING	MULTI-NATIONAL PRINTING PAUL BRANT	(602) 274-4515 MBE	6009 N. 16TH ST. PHOENIX, AZ 85016-
PRINTING PRODUCTS -BLUE PRINTING	ACME BLUEPRINT & PHOTOCRAFT CO. INC. G. MICHAEL MCQUEEN	(602) 254-6171 WBE	1425 N. FIRST STREET PHOENIX, AZ 85004-
PRINTING, COMMERCIAL	SEABORN PRINTING LINDA S. TRAYNOR	(602) 381-0490 WBE	3001 E. THOMAS RD. PHOENIX, AZ 85016-
PRODUCTION GRAPHICS	COMPUTER COUNTRY, INC. ANTOINETTE MOSBY	(602) 451-7765 WBE	11343 N. 129TH WAY SCOTTSDALE, AZ 85259-
PROJECT MANAGEMENT SOFTWARE	ORIGINAL SOLUTIONS, INC. J.P. NARDIN	(602) 894-5415 WBE	1969 E. BROADWAY, #2 TEMPE, AZ 85282-
PSYCHICIATRIC SERVICES	PERLA GABUYA, M.D. DR. PERLA GABUYA	(602) 243-5500 MBE	1616 E. ROESER ST. PHOENIX, AZ 85040-
PSYCHOLGICAL COUNSELING	MARGARET E. MARSHALL, P.C. MARGARET MARSHALL, PHD.	(602) 264-5678 WBE	777 E. MISSOURI, #121 PHOENIX, AZ 85014-

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PSYCHOLOGICAL COUNSELING, DRUG TESTING	HUMAN RESOURCE ACADEMY, INC. DR. JOSEPH PARHAM	(602) 644-9339 MBE	2706 E. MAIN ST. MESA, AZ 85213-
PSYCHOLOGICAL SERVICES	JANET MILLARD, PH.D. DR. JANET MILLARD	(602) 730-6720 WBE	955 E. WATSON TEMPE, AZ 85283-
PSYCHOLOGICAL SERVICES	JEFFREY M. ESTRADA, PH.D. DR. JEFFREY M. ESTRADA	(602) 954-5667 MBE	P.O. BOX 17564 PHOENIX, AZ 85011
PSYCHOLOGICAL SERVICES	ZELDA HITTEL P.C. DR. ZELDA HITTEL	(602) 955-3482 WBE	5249 N. 37TH PLACE PARADISE VALLEY, AZ 85253
PSYCHOLOGIST	ANNE E. HARRIS, PHD DR. ANNE E. HARRIS	(602) 548-3937 WBE	1201 S. ALMA SCHOOL RD., #6950 MESA, AZ 85210-
PUBLIC INFORMATION RELATIONS	RH & ASSOCIATES RENEE L. HOEKSTRA	(602) 493-1947 WBE	4001 E. BELL RD., #114 PHOENIX, AZ 85032-
PUBLIC PHONES AND VENDING SERVICES	PAYLESS COMMUNICATION & VENDING WILLIAM MARVIN JOHNSON	(602) 261-9797 MBE	P.O. BOX 42162 MESA, AZ 85274-
PUBLIC RELATIONS	PHOENIX INTERNATIONAL CONSULTANTS RONNIE LOPEZ	(602) 285-0181 MBE	3200 N. CENTRAL AVE, STE 680 PHOENIX, AZ 85012-
PUBLIC RELATIONS	SUSAN Z. COMMUNICATIONS SUSAN ZELONICKI	(602) 266-5484 WBE	3973 N. 14TH PL. PHOENIX, AZ 85014-
PUBLIC RELATIONS CONSULTANT	KATHERINE CHRISTENSEN & ASSOCIATES KATHERINE CHRISTENSEN	(602) 759-7883 WBE	3239 E. COTTONWOOD LN., #100 PHOENIX, AZ 85044-
PUBLIC RELATIONS FIRM	APPLIED MANAGEMENT & PLANNING GROUP	(310) 820-0741 WBE	12300 WILSHIRE BLVD., #430 LOS ANGELES, CA 90025-
PUBLIC RELATIONS SERVICES	ARIZONA CONSTRUCTION SERVICES TERRI SMITH	(602) 264-4611 WBE	738 E. FLYNN LANE, #A PHOENIX, AZ 85014-
PUBLIC RELATIONS SPECIALIST	PROJECT INFORMATION ASSOCIATES GARETH D. LEWIS	(602) 241-1818 MBE	77 E. COLUMBUS AVE. #202 PHOENIX, AZ 85012-
PUBLIC RELATIONS, MARKETING	VILLICANA & ASSOCIATES REBECCA VILLICANA	(602) 265-7350 MBE	716 E. CLAREMONT PHOENIX, AZ 85014-
PUMPS & PUMPING EQUIPMENT	PUMP SYSTEMS, INC. PEGGY DONOVAN	(602) 545-8484 WBE	128 W. BOXELDER, #102 PHOENIX, AZ 85224-
PUMPS, COMPRESSORS, INDUSTRIAL SALES	WILLING PUMP & SUPPLY CO., INC. C. JEAN MCMULLIN	(602) 246-8640 WBE	3735 W. CAMBRIDGE AVE. PHOENIX, AZ 85009-
REAL ESTATE APPRAISAL & CONSULTATION	DENNIS LOPEZ & ASSOCIATES DENNIS L. LOPEZ	(602) 838-7332 MBE	209 E. BASELINE RD., #205 TEMPE, AZ 85283-

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REAL ESTATE BROKERAGE	PROPERTY DIMENSIONS, LTD. CATH HAIRE-WILKINSON	(602) 241-1404 WBE	6520 N.7TH ST. #185 PHOENIX, AZ 85014-
REAL ESTATE BROKERAGE, PROPERTY MANAGE	ENTERPRISE 2000, INC. DANIEL VALENZUELA	(602) 254-1800 MBE	809 N. FIFTH AVE PHOENIX, AZ 85003-
REAL ESTATE SERVICES	E. D. REAL ESTATE E. DARLENE GRIEGER	(602) 964-4277 WBE	P.O. BOX 5580 MESA, AZ 85211-
REAL ESTATE SPECIALIST	G.H. BENAVIDES CONSULTANTS SERVICE GEO H. BENVIDES	(602) 930-1312 MBE	6822 N. 58TH AVE. GLENDALE, AZ 85301-
REBAR PLACEMENT	SUNDANCE REBAR, INC. LEAH E. WINCHESTER	(602) 926-3341 WBE	1520 W. WARNER RD. #106/127 GILBERT, AZ 85234-
REBAR STEEL PLACEMENT	ENDO STEEL, INC. GARY WERLINGER	(602) 969-4571 MBE	P.O. BOX 30516 MESA, AZ 85275-
RECORDS MANAGEMENT SERVICE	ARMSTRONG DATA SERVICES, INC. JACK C. PRISTER	(602) 527-7969 MBE	2 N. CENTRAL AVE., #1250 PHOENIX, AZ 85004-
RESPIRATORY THERAPY PERSONNEL	PROFESSIONAL RESPIRATORY CARE SVS., INC. JEAN MATHEWS	(602) 277-0753 WBE	2255 N. 44TH ST. #160 PHOENIX, AZ 85008-
RETAIL SALES OF HAIR PRODUCTS	WEBBER AND LANE CORP. ETHEL MACLANE	(602) 252-6353 M/WBE	730 S. 15TH AVE. PHOENIX, AZ 85007-
RUBBER STAMPS SALES & SERVICE	EAGLE RUBBER STAMP CO. LUO KAMRADT	(602) 842-9323 WBE	8021 N. 43RD AVE., #1 PHOENIX, AZ 85051-5700
SALES & SERVICE OF OUTDOOR POWER EQUIP.	EVERGREEN BIKE & LAWN EQUIPMENT PAT RITCHEY	(602) 932-0060 WBE	880 E. VAN BUREN Suite #102 GOODYEAR, AZ 85338
SALES OF AUTO REFINISHING PRODUCTS	FIESTA AUTOMOTIVE PAINT & SUPPLY, INC. ALBERT G. RUIZ	(602) 829-8896 MBE	2090 E. UNIVERSITY, #106 TEMPE, AZ 85281-
SALES OF TELEPHONE EQUIPMENT	J.M.H. COMMUNICATIONS, INC. JOAN HOWARD	(602) 966-7298 WBE	325 E. SOUTHERN AVE. #111 TEMPE, AZ 85282-
SALES, DESIGN OF SECURITY SYSTEMS	CENTRON SECURITY SYSTEMS, INC. KAREN KING	(908) 968-1143 WBE	P.O. BOX 4322 DUNELLEN, NJ 08812-
SALES, SERVICE & INSTALL OF FIRE PROTEC.	SUN DEVIL FIRE EQT., INC. SHAREA SIMMERS	(602) 245-0636 WBE	P.O. BOX 48898 PHOENIX, AZ 85075-
SHORING & SCAFFOLDING CONTRACTOR	SUN-SET FALSEWORK ROLANDO TANNOYA	(602) 949-9246 MBE	2643 N. GRANITE REEF RD. SCOTTSDALE, AZ 85257-
SHOTCRETE PLACEMENT	SHOTCRETE SPECIALTIES MICKEY M. GARNER	(602) 838-7412 WBE	14901 S. 48TH ST. PHOENIX, AZ 85044-

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SIGNS MANUFACTURER	ALL SIGN SYSTEMS TINA LOCKWOOD	(602) 230-0614 WBE		4029 N. 31ST AVE. PHOENIX, AZ 85017-
SIGNS, FRAMES, SCREENPRINTING INSTALLATION	SIGN CITY DEBRA J. HEIDRICH	(602) 881-8443 WBE		2727 E. GRANT RD. TUCSON, AZ 85716-
SILK-SCREEN PRINTING	BUCK-SHIRTS TRAVIS BENTON	(602) 264-5696 MBE		130 W. PIERSON PHOENIX, AZ 85013-
SKIN PROTECTION PRODUCT DISTR.	MARY PAT HEALEY, RN MARY PAT HEALEY	(602) 934-1711 WBE		9021 N. 349TH DR. PHOENIX, AZ 85051-
SNACK FOOD WHOLESALER & MANUFACTURER	ROCKING JC SOUTHWEST FOODS SUSAN CARRASCO	(602) 596-0014 MBE		7441 E. BUTHERUS #500 SCOTTSDALE, AZ 85260-
SPECIAL EVENTS MANAGER	HEMINGWAY'S ENTERPRISES ALMA S. PENA	(602) 460-2112 M/WBE		1402 E. NIGHT HAWK WAY PHOENIX, AZ 85044-
SPORTING GOODS RETAIL/WHOLESALE	WAREHOUSE SPORTS & RECREATION IRENE ECHEVESTE	(602) 820-8533 MBE		3415 S. McCLINTOCK, #6 TEMPE, AZ 85282-
STORYTELLER, PERFORMING ARTS	PAT MAHIN, MASTER STORYTELLER PATRICIA MAHIN	(602) 860-4123 WBE		8995 E. CAPTAIN DREYFUS SCOTTDALE, AZ 85260-
STRATEGIC PLANNING CONSULTANTS	PARTNERS FOR STRATEGIC ACTION PEGGY A. FIANDACA	(602) 786-3583 WBE		1990 N. ALMA SCHOOL RD., #371 CHANDLER, AZ 85224-
SUPPLIER OF INDUSTRIAL EQUIPMENT	INDUSTRIAL SALES & SERVICE, CO. JOANNE P. FEEMAN	(702) 456-5357 WBE		12 SUNSET WAY #B-206 HENDERSON, NV 89014-
SUPPLIER OF NATIVE SEEDS	WILD SEED, INC. RITA JO ANTHONY	(602) 345-0689 WBE		2073 EAST ASU CIRCLE TEMPE, AZ 85284-
SUPPLIER OF NUTS & BOLTS	DRUMMER ELECTRIC COMPANY, INC. LINDA WILLIAMS	(602) 255-0009 WBE		P.O. BOX 11275 PHOENIX, AZ 85061-
SURVEYING, AERIAL CONTROL	VALCO SURVEYING CORP. VALENTINE M. PADILLA	(602) 990-2412 MBE		6426 E. VIRGINIA AVENUE SCOTTSDALE, AZ 85257-
SURVEYING; CIVIL, STRUCTURAL ENGINEERING	LOUIS C. WARNER & COMPANY LOUIS C. WARNER	(602) 990-3008 MBE		4422 N. CIVIC CENTER PLAZA #10 SCOTTSDALE, AZ 85251-
TAFFIC DATA COLLECTION	TRAFFIC RESEARCH & ANALYSIS, INC. SUSAN STEEL MEDLAND	(602) 266-1514 WBE		3012 N. 16TH STREET PHOENIX, AZ 85016-
TAXI SERVICE	ALPHA CAB COMPANY JAMES AMOAKO	(602) 936-7007 MBE		8826 W. ENCANTO BLVD. PHOENIX, AZ 85037-
TEMP NURSING SERVICES	SACRED HEART NURSING SERVICES, INC. ANDREA G. DATINGALING	(602) 953-2882 M/WBE		10411 N. 42ND ST. PHOENIX, AZ 85028-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
TEMP. EMPLOYMENT SERVICE	PRIORITY STAFFING RICK SCHULTE	(602) 491-2191 MBE	4600 S. MILL AVE., #275 TEMPE, AZ 85282-
TENANT IMPROVEMENT	SKYLINE BUILDERS & RESTORATION, INC. SALLY J. COHILL	(602) 941-1359 WBE	15202 N. CAVE CREEK RD. PHOENIX, AZ 85032-
TRAFFIC CONTROL	J & K SAFETY SERVICES, INC. JUANITA E. HETCHLER	(602) 457-0808 WBE	6658 W. CAMINO SAN XAVIER GLENDALE, AZ 85308-
TRAFFIC ENGINEERING	EMCI CATHERINE OENBRINK	(407) 842-1888 DBE	P.O. BOX 2345 WEST PALM BEACH, FL 33402-
TRAFFIC ENGINEERING	SOLAEGUI ENGINEERS, LTD. PAUL W. SOLAEGUI	(702) 358-1004 MBE	2100 CAPURRO WAY, #F 2ND FL. SPARKS, NV 89431-
TRAFFIC ENGINEERING CONSULTING	HEFFERMAN & ASSOCIATES KATHRYN Z. HEFFERMAN	(602) 952-1605 WBE	4350 E. CAMELBACK RD., #200 F PHOENIX, AZ 85018-
TRAINING & DEVELOPMENT	VENTURE UP INC TERESA SHAW LENGYEL	(602) 957-9351 WBE	2415 E. INDIAN SCHOOL RD. PHOENIX, AZ 85016-
TRAINING AND MANAGEMENT CONSULTING	VICKI ROMERO & ASSOCIATES, INC. VICKI ROMERO	(602) 483-8722 WBE	P. O. Box 5187 SCOTTSDALE, AZ 85261-
TRAINING SYSTEMS DESIGN	RICKENBACKER AVIATION, INC. JACQUELINE RICKENBACKER	(602) 396-4067 WBE	P.O. BOX 20517 MESA, AZ 85277-0517
TRANSIT PLANNING & MANAGEMENT SERVICES	THE TRANSIT EXPERT, INC. SUZANNE O'NEILL	(303) 646-4319 DBE	P.O. BOX 637 ELIZABETH, CO 80107-
TRANSPORTATION PLANNING	TRANSPORTATION CONSULTING MDA, INC. MARSHA D. ANDERSON	(404) 813-0882 WBE	3400 McCLURE BRIDGE. BLD. G#C DULUTH, GA 30136-
TRANSPORTATION SERVICES	ROZ KRAUS ASSOCIATES ROZ KRAUS	(805) 646-9075 WBE	P.O. BOX 1379 OJAI, CA 93023-
TRASP. PLANNING, COMMUNITY PARTICIPATION	PM:A/PLANNING & MANAGMENT APPLIED FIL A. CHAVEZ	(602) 885-9283 MBE	1150 N. EL DORADO PLACE, #245 TUCSON, AZ 85715-
TRAVEL AGENCY	ALL WAY TRAVEL KAREN ROSE ROICE	(602) 866-9297 WBE	13601 N. 19TH AVE. PHOENIX, AZ 85029-
TRAVEL AGENCY, FULL SERVICE	MOON VALLEY TRAVEL SERVICE, INC DEBRA L MARTIN	(602) 866-1950 WBE	13240 N. 7TH ST E-2 PHOENIX, AZ 85022-
TRAVEL SERVICE	NATIVE AMERICAN TRAVEL SERVICE TANDY C. YOUNG	(602) 945-0771 MBE	4130 N. GOLDWATER BLVD. #114 SCOTTSDALE, AZ 85251-
TREE CUTTING	THE MARCHAND COMPANY SUSAN E. TASSO	(602) 981-7365 WBE	761 N. REGENT ST. MESA, AZ 85205-

MARICOPA COUNTY
 MINORITY/WOMEN-OWNED BUSINESS OFFICE
 LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
TRUCKING	HARRIS & SONS TRUCKING ETHEL R. HARRIS	(602) 892-9009 WBE	P.O. BOX 741 GILBERT, AZ 85234-
TRUCKING	M & P CONTRACTING, INC. ANN HARDIN	(602) 278-7877 WBE	3425 N. 29TH AVE. PHOENIX, AZ 85017-
TRUCKING, HAULERS & BROKERS	A.A.S.R. HAULERS & TRUCK BROKERAGE JUDITH G. AUSTIN	(602) 895-5799 WBE	24611 S. McQUEEN RD. CHANDLER, AZ 85249-
TYPESETTING, LAYOUT & DESIGN	DUOTYPE SERVICES ROSANNE ARMIJO	(602) 222-9494 MBE	5917 W. COLTER GLENDALE, AZ 85301-
TYPING, WORD PROCESSING, REPORT PREP.	MACWORD PRO DEBBIE N. CLIFFORD	(602) 844-1648 WBE	816 N. STANDAGE MESA, AZ 85201-
TYPSETTING, DESIGN SERVICES	A-1 TYPESETTING & GRAPHICS BUSHRA YOUSIF	(602) 401-1633 WBE	P.O. BOX 59023 PHOENIX, AZ 85076-9023
UNDERGROUND PIPELINES INSTALLATION	SHIYA-STREPHANS CONTRACTING, CO. ROBERT STREPHANS	(602) 997-6308 MBE	2301 W. DUNLAP AVE. # 106 PHOENIX, AZ 85021-
UNDERGROUND UTILITIES, CONTRACTOR	BANNER CONSTRUCTION COMPANY, INC. RUTH G. JUAREZ	(602) 936-1931 MBE	6805 W. VAN BUREN PHOENIX, AZ 85043-
URBAN & LAND PLANNING, CIVIL ENGINEERING	DAYA & ASSOCIATES, INC. DAYA Z. HOFFMAN	(602) 778-7587 WBE	310 E. UNION STREET PRESCOTT, AZ 86303-
URBAN ECONOMIST, MARKET, FISCAL ANALYSIS	GRUEN GRUEN + ASSOCIATES CLAUDE GRUEN	(415) 989-4224 MBE	564 HOWARD STREET SAN FRANCISCO, CA 94105-
VENDING EQUIPMENT	TRIPLE J. UNITED VENDING COMPANY JULIA Z. TSAO	(602) 940-8634 M/WBE	4553 E. THISTLE LANDING DR. PHOENIX, AZ 85044-
WATER & SEWER EQUIP. MANUFACT. & SUPPLY	CONTRACTORS/ENGINEERS SUPPLY, INC. LEWIS E. SOUZA, SR.	(602) 272-1369 MBE	1402 S. 27TH AVE. PHOENIX, AZ 85009-
WELDING CONTRACTOR	MORENO WELDING DANIEL MORENO	(602) 276-9508 MBE	P.O. BOX 8096E PHOENIX, AZ 85040-
WELDING SUPPLIES & GASES	TRI-M WELDING SUPPLY CORP., ACC BARBRA A. MARTIN	(602) 435-2622 WBE	P.O. BOX 14176 PHOENIX, AZ 85063-
WHOLESALE DISTRIBUTOR OF MECH. FASTENERS	SOUTHWEST FASTENER DISTRIBUTION CO. CATHERINE E. FILIPPONE	(602) 272-2658 WBE	4035 W. VAN BUREN PHOENIX, AZ 85009-
WINDOW COVERING	DESERT BLINDS & WINDOW DESIGNS ANNE MICHALS	(602) 940-8385 WBE	4909 W. JOSHUA BLVD, #1013 CHANDLER, AZ 85226-
WINDOW COVERING CLEANING	DESERT BLIND CLEANING ANNE MICHALS	(602) 273-5822 WBE	4009 W. JOSHUA BLVD., #1013 CHANDLER, AZ 85226-

MARICOPA COUNTY
MINORITY/WOMEN-OWNED BUSINESS OFFICE
LIST OF CERTIFIED FIRMS SORTED BY BUSINESS TYPE

11/01/94

Business Type	Firm Contact Name	Phone M/WBE Status	Address
WINDOW COVERINGS	BLIND IDEAS & INTERIORS, INC. TAMARA L SNIDER	(602) 246-1913 WBE	P.O. BOX 42646 PHOENIX, AZ 85080-
WORD PROCESSING SUPPLIES	CASCADE BUSINESS SUPPLY MEL MEEKS	(602) 897-2431 MBE	999 E. BASELINE #1204 TEMPE, AZ 85283-

IF BY AN INDIVIDUAL:

(Name - Title)

(Address)

(Date)

Phone: _____

IF BY A FIRM OR PARTNERSHIP:

(Firm Name)

(Firm Address)

By: _____
(Name - Title)

Phone: _____

Date: _____

** Name and Address of Each Member:

** The Name and Post Office Address of Each Member of the Firm or Partnership Must be Shown.

IF BY A CORPORATION:

(Corporate Name)

(Corporation Address)

By: _____

Phone: _____

Title: _____

Date: _____

* Incorporated under the Laws of the State of Arizona Names and Addresses of Officers:

(President)

(Address)

(Secretary)

(Address)

(Treasurer)

(Address)

* The Name of the State Under Which the Laws of the Corporation was Chartered and Names, Title, and Business Address of the President, Secretary, and Treasurer Must be Shown.

SUBCONTRACTOR LISTING

As required in Section 102.6 of the Supplementary General Conditions, the following is a listing of Subcontractors and material suppliers that are to be used in the event the undersigned should enter into contract with the Owner. No change in the subcontractors and material suppliers listed will be made without prior written approval of the Owner.

(Signature)

SURETY BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal, (hereinafter called the Principal), and the _____, a corporation duly organized under the laws of the State of _____, as Surety, (hereinafter called the Surety), are held and firmly bound unto the Flood Control District of Maricopa County as Obligee, in the sum of **ten percent (10%)** of the total amount of the bid of Principal, submitted by him to the Flood Control District of Maricopa County, for the work described below, for the payment of which sum, well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, and administrators, successors and assigns, jointly and severally, firmly by these presents, and in conformance with the Arizona Revised Statutes.

WHEREAS, the said Principal is herewith submitting its proposal for FCD 94-37, Dysart Drain Improvements Project Bridges and Utility Crossings.

NOW, THEREFORE, if the Flood Control District of Maricopa County shall accept the proposal of the Principal and the Principal shall enter into a contract with the Flood Control District of Maricopa County in accordance with the terms of the proposal and give the Bonds and Certificates of Insurance as specified in the Standard Specifications with good and sufficient Surety for the faithful performance of the contract and for the prompt payment of labor and material furnished in the prosecution of the contract, or in the event of the failure of the Principal to enter into the contract and give such Bond and Certificate of Insurance, if the Principal pays to the Flood Control District of Maricopa County the difference not to exceed the penalty of the bond between the amount specified in the proposal and such larger amount for which the Flood Control District of Maricopa County may in good faith contract with another party to perform the work covered by the proposal then this obligation is void. Otherwise it remains in full force and effect, provided, however, that this bond is executed pursuant to the provisions of Section 34-201, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions of the section to the extent as if it were copied at length herein.

Signed and sealed this _____ day of _____, A.D., 1994.

Agency of Record, State of Arizona

Principal

Agency Address

By: _____

Title: _____

Surety

By: _____

Title: _____

Bond Number: _____

ATTACH SURETY POWER OF ATTORNEY

**AFFIDAVIT BY CONTRACTOR
CERTIFYING THAT THERE WAS NO COLLUSION
IN BIDDING FOR CONTRACT**

STATE OF ARIZONA)
)SS
County of Maricopa)

_____ being first duly sworn, deposes and says:
That he/she is _____ of _____ bidding
on Contract FCD 94-37 for Dysart Drain Improvement Project Bridges
and Utility Crossings, in the County of Maricopa, State of Arizona.

That, in connection with the above-mentioned project, neither he/she,
nor anyone associated with the aforesaid business, has, directly or
indirectly, participated in any collusion, entered into any contract,
combination, conspiracy or other act in restraint of trade or commerce
in violation of the provisions of A.R.S. Section 34-251, Article 4, as
amended.

(Signature of Affiant)

Subscribed and sworn to before me this _____ day of _____, 1994.

(Notary Public)

My Commission Expires

CERTIFICATION OF LICENSE

Pursuant to A.R.S. Section 32-1169, I hereby state that I hold a current contractor's license, duly issued by the office of the Registrar of Contractors for the State of Arizona, said license has not been revoked, that the license number is:_____ that my privilege license number (as required by A.R.S. Section 42-1305) is:_____; and that, if any exemption to the above licensing requirements is claimed;

(1) The basis for the claimed exemption is:_____ and;

(2) The name(s) and license number(s) of any general, mechanical, electrical, or plumbing contractor(s) to be employed on the work are:

IT IS UNDERSTOOD THAT THE FILING OF AN APPLICATION CONTAINING FALSE OR INCORRECT INFORMATION CONCERNING AN APPLICANT'S CONTRACTOR'S LICENSE OR PRIVILEGE LICENSE WITH THE INTENT TO VOID SUCH LICENSING REQUIREMENTS IS UNSWORN FALSIFICATION PUNISHABLE ACCORDING TO A.R.S. SECTION 13-2704.

Signature of Licensee

Date:_____

Company:_____

**MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISE PROGRAM
CONSTRUCTION CONTRACTING REQUIREMENTS**

A. The following conditions will apply in the calculations of the percentage attainment:

1. All M/WBE firms used in attainment of the goal must be certified with the Maricopa County Minority Business Office (MBO). The MBO is located at 2901 West Durango Street, Phoenix, Arizona 85009, telephone 506-4068. In addition, only those firms certified prior to the bid opening will be considered in the attainment of the goal.
2. Prime contractor subcontracts to MBE or WBE:
The M/WBE amount to be applied to the goal will be based on that portion (dollar value) of the contract that the M/WBE performs. For example, if a prime contractor subcontracts work amounting to \$100,000 of a contract for which the total project cost is \$1,000,000 the M/WBE participation will be credited as 10 percent.
3. Prime Minority Contractor:
An M/WBE prime contractor will be credited with the M/WBE participation for that portion of the contract which they themselves perform plus that portion subcontracted to other M/WBE firms. For example, if an M/WBE prime contractor proposes to perform 50 percent of a project quoted as \$1,000,000 and subcontracts 25 percent to an MBE firm and 25 percent to a non-M/WBE firm, M/WBE participation will be credited as 75 percent, or \$750,000.
4. Minority-Non Minority Joint Venture:
A joint venture consisting of M/WBE participation and non-M/WBE business enterprises, functioning as a prime contractor, will be credited with minority participation on the basis of the percentage of profit accruing to the M/WBE firm. For example, if a M/WBE and non-M/WBE joint venture proposes to perform 50 percent of a \$1,000,000 project and 50 percent of the joint venture profits (\$500,000) are to accrue to the M/WBE partner in the joint venture, M/WBE participation will be credited at 25 percent or \$250,000.
5. Lower Tier Non-M/WBE Participation:
M/WBE subcontractors proposing to further subcontract to non-M/WBE contractors shall not have that portion of subcontracting activity considered when determining the percentage of M/WBE participation.
6. M/WBE Suppliers:
Any M/WBE supplier that performs a commercially useful function, manufactures or substantially alters the material or product it supplies will have that portion of activity considered when determining the percentage of M/WBE participation.

7. M/WBE Trucking:
Credit for trucking by MBEs or WBEs will be the amount to be paid when the MBE or WBE trucker will perform the trucking with his/her trucks, tractors, and employees or when a MBE or WBE trucking broker has signed agreements with MBE and WBE truckers.

B. Required forms:

Two Affidavits are included as part of this section. The first form, the "M/WBE Assurances Affidavit", must be completed and submitted with the bid - **FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION OF THE BID.**

A SAMPLE of the "Actual M/WBE Participation Affidavit", that must be completed and returned by the first and second bidders to the Minority Business Office by 4:00 p.m. on the seventh calendar day after bid opening, if M/WBE goals have been established, is provided for information purposes. A copy of the sample or the sample form itself may also be used. The affidavit will list the M/WBE participation by M/WBE firm name and the relative dollar value of the M/WBE contract. The information in this affidavit is binding on the contractor, to the extent that any amounts may be increased and not decreased, and that if any listed M/WBE's are unable to enter into a subcontract with contractor, the contractor **must** provide a written report to the Procurement Officer, through the Owner's representative in accordance with instructions provided elsewhere in this document.

C. Good Faith Efforts:

Bids which fail to meet MBE or WBE minimum goals at levels which equal or exceed established goals may be considered nonresponsive unless good faith efforts can be determined. Only MBE and WBE firms certified by Maricopa County prior to the bid submittal date, and which will perform a commercially useful function will be counted toward meeting the participation goals. Any portion of the work that a proposed MBE or WBE firm will subcontract to other than a certified firm, regardless of tier, will not be counted toward the applicable goals.

The apparent first and second low bidders who do not fulfill the established MBE and WBE goals must demonstrate, through detailed and comprehensive documentation, that "good faith" efforts have been made to solicit, assist and utilize MBE and WBE firms to meet participation goals.

The County minority Business Office (MBO) will assist prime contractors in identifying possible qualified and interested MBE and WBE subcontractors to meet designated MBE and WBE goals. **A M/WBE listing will be furnished with the bidding documents**, which contractors must utilize in identifying M/WBE firms. It will be the responsibility of the prime contractors to obtain the MBE and WBE firms necessary to meet the MBE and WBE goals.

FAILURE TO CONTACT THE MBO FOR ASSISTANCE IN COMPLYING WITH THESE GOALS MAY RESULT IN NOT HAVING IMPLEMENTED "GOOD FAITH" EFFORTS. Contact may be in writing, by telephone, or in person. If by phone or in person, name of MBO person spoken to should be obtained and written within the "CONTRACTOR CERTIFICATE OF GOOD FAITH" SUBMITTAL FORM (supplied if a contract has M/WBE goals).

(The Minority Business Office is located at 2901 West Durango Street, Phoenix, Arizona. Telephone number is 506-4068.

FAILURE TO IMPLEMENT "GOOD FAITH" EFFORTS IN ACCORDANCE WITH THE MARICOPA COUNTY MINORITY BUSINESS ENTERPRISE PROGRAM TO THE SATISFACTION OF MARICOPA COUNTY MAY RESULT IN THE REJECTION OF THE BID.

If information submitted by a prime contractor indicates that established MBE and WBE goals have not been met, the contractor must be required to provide sufficient documentation to demonstrate that he/she has complied with MBE and WBE requirements or good faith efforts. Good faith efforts will be determined by both quality and intensity of these efforts. Documentation provided to the MBO must include:

1. The date bidder requested assistance in writing, in person, or by telephone from the MBO. The bidder should request assistance from the MBO office in order for a determination to be made. **As Maricopa County M/WBE listings are updated frequently, bidders shall contact the MBO to ensure that they have the most recent edition.**
2. Names, addresses and telephone numbers; and dates of notification of Maricopa County certified MBEs and WBEs solicited by direct mail for this project; and dates and methods used for follow up of initial solicitations to determine with certainty whether MBEs or WBEs were interested in subcontracting. (SEE FOLLOWING NOTE).
3. Items of work for which bidder requested subbids, proposals or materials to be supplied by MBEs and WBEs; information furnished to interested MBEs and WBEs such as specifications and requirements of the work; plans; and any breakdown of items of work into economically feasible units to facilitate MBE and WBE participation.
4. Names of MBEs and WBEs who submitted bids for any of the work indicated above and were not accepted by the prime contractor. An explanation of why MBEs or WBEs contacted will not be awarded subcontracts. If price was the reason for rejection of the bid, the price bid of rejected MBEs or WBEs and price bid of the selected subcontractor shall be submitted. Since utilization of available MBEs and WBEs is the program objective, price differences will not automatically be considered as cause for a prime contractor's rejection of MBE and WBE bids.

5. Documentation of written notices or telephone calls to a reasonable number of M/WBES soliciting their participation in sufficient time to allow M/WBES to participate effectively. All M/WBES listed on the Maricopa County Certification list which provide applicable goods and services for subject procurement/project should be contacted.

NOTE: THE ABOVE GOOD FAITH EFFORTS MUST HAVE BEEN CONDUCTED DURING THE BIDDING PERIOD AND PRIOR TO THE BID OPENING WITH SUBSTANTIAL TIME IN ORDER TO ALLOW FOR A RESPONSE FROM POTENTIAL M/WBE SUBCONTRACTORS. ORIGINAL CONTACT BY A PRIME CONTRACTOR JUST PRIOR TO OR ON THE BID OPENING WILL NOT BE CONSTRUED AS HAVING PROVIDED SUFFICIENT RESPONSE TIME FOR SUBMISSION OF SUBCONTRACT BIDS.

The following efforts can also be utilized in demonstrating "Good Faith" in soliciting M/WBE participation.

1. A description of the efforts made to assist MBEs and WBES whose bids were rejected to be more competitive in their subcontracting bids. These efforts could include assistance in meeting bonding or insurance requirements.

2. Names and dates of advertisement of each newspaper, trade paper, and minority focus paper in which a request for MBE and WBE participation for this project was placed by the bidder.

Contractors are encouraged to seek M/WBES in the same geographical area in which the work is to be performed or goods provided. If the bidder cannot meet the established goals using M/WBES from the geographical area, the bidder should expand its search to a reasonable wider geographical area.

The MBO will make the final decision as to whether good faith efforts were met, based on the information submitted.

D. Appeal Process for Bid Award:

If the Owner is considering award of a contract to a bidder other than the low bidder because of failure to meet MBE and WBE participation goals or good faith efforts, the low bidder will be notified and given an opportunity to protest the decision. This protest will be made in accordance with the Maricopa County Procurement Code, Article 9, MCI-905, which is incorporated by reference.

E. Contract Compliance:

Failure of any bidder, contractor or subcontractor to comply with any of the requirements of the Maricopa County minority and Women-Owned Business Program shall be a material breach of contract. During the term of an awarded contract, the prime contractor shall:

1. Fulfill the MBE and WBE participation commitments submitted with their bid;
2. Continue to make every effort to utilize MBEs and WBEs;
3. Require that their subcontractors make every effort to utilize MBEs and WBEs;
4. Maintain records necessary for monitoring their compliance with provisions contained in the M/WBE Program.

The primary responsibility for assuring contractor's compliance with these M/WBE contract requirements after award rests with the Owner's designated representative. The Owner's designated representative should ascertain that no one other than the approved MBE or WBE contractors or subcontractors are performing the work, and that MBE and WBE subcontractor substitutes have been approved in advance. The prime contractor shall not perform any MBE or WBE contract work items without prior approval by the Owner's Procurement Officer, through the Owner's designated representative.

The Owner's Procurement Office shall advise the Minority Business Office immediately of any circumstances where a contractor appears to be in violation of the MBE and WBE contract requirements. An investigation will be held by the MBO and a recommendation for corrective action shall be forwarded to the Owner's Procurement Officer. Intentional noncompliance with the MBE and WBE requirements may result in withholding funds on the items already completed, in termination of the contract, and/or formal debarment from future contracts. The Maricopa County Minority Business Office reserves the right to inspect all records of the contractor, MBEs and WBEs concerning this project.

The MBO will conduct MBE and WBE compliance reviews on a regular basis.

F. Substitution of Subcontractors:

The prime contractor shall request approval to replace an approved MBE or WBE subcontractor that is unable or unwilling to perform successfully on a contract with another MBE or WBE. This failure does not remove the contractor's responsibility for meeting the MBE and WBE participation goals on the contract. A written request for substitution must be made to the Owner's Procurement Officer, through the designated Owner's representative, of the Procurement Agency. The substitute MBE or WBE, obtained to perform an equal or greater dollar value of work, must be approved by the Owner's Procurement Officer, through the designated Owner's representative, prior to beginning of any work by the substitute MBE or WBE. The request for substitution must include, but is not limited to the following:

1. Reason for substitution.
2. Name, address, and telephone number of the approved MBE or WBE.
3. Name, address and telephone number of the MBE or WBE substitute.
4. Item, numbers, description of work and the proposed MBE and/or WBE dollar amount.
5. Good faith effort documentation if the substitute subcontractor is not an MBE or WBE.

G. Requests for Pay:

Each Request for Pay must be accompanied by a Maricopa County Minority/Women-Owned Business Enterprise Program "MBE/WBE PARTICIPATION REPORT" in the form as provided by the Flood Control District of Maricopa County.

The final pay request shall include a listing of total contract MBE/WBE participation. Line numbers and a description of actual work performed shall also be included. If, at the time of contract completion, the MBE and WBE commitments are not actually attained, the report is to provide an explanation of failure to comply. These reports shall be submitted within thirty (30) days of contract completion, PRIOR TO RELEASE OF ANY REMAINING CONTRACT RETENTION.

CONTRACTOR CERTIFICATE OF GOOD FAITH*

The intent of this certification is to document the good faith efforts implemented by the apparent low bidder in soliciting and utilizing M/WBE firms to meet the established M/WBE goals for County contracts. This certificate will assist Maricopa County in determining whether the apparent low bidder has implemented "good faith" efforts in accordance with the Maricopa County Minority Business Program. The burden of proof rests with the apparent low bidder.

(NOTE: Prior to filling out this certificate it is important that contractors review the "good faith" efforts requirements in the M/WBE section of the project specification booklet).

Failure to implement "good faith" efforts to the satisfaction of Maricopa County will result in rejection of the proposal.

I, _____, do hereby acknowledge that I am the _____ of who has been identified as the selected contractor on Flood Control District Project/Contract FCD _____.

Provide a brief summary of why the established M/WBE goal for this project has not been met. (Attach additional sheets if necessary).

I hereby certify that I have made comprehensive "good faith" efforts to solicit and utilize County certified M/WBEs to meet the established M/WBE goal of this project as demonstrated by my responses to the following questions:

A. IDENTIFYING SUBCONTRACTOR WORK ITEMS

Contractors are encouraged to select portions of work to be subcontracted in a manner which will increase the likelihood of meeting the established M/WBE goal for the project. In selecting work to be performed, contractors will consider, where appropriate, breaking down the project into economically feasible units to facilitate M/WBE participation. Contractors are reminded that only M/WBE certified by the County can be used as participants towards meeting the project goals. A County M/WBE Certification listing will be provided to all contractors interested in submitting bids for projects. This listing is the only authorized source from which to select M/WBEs for project participation. Current copies of this listing may be obtained by calling the Minority Business Office at (602) 506-4068.

1. Which portions of the contract proposal, in terms of the nature of the work were selected to be subcontracted to M/WBE firms?

B. NOTIFYING M/WBE FIRMS OR CONTRACTING OPPORTUNITIES

1. Solicitations by mail/fax must be made to all M/WBE firms identified on the M/WBE Certification Listing that perform the type of work which is proposed for subcontracting. Following this initial solicitation, at least one follow-up telephone call must be made to any of the M/WBE firms who have not responded to the mailing.

2. In the spaces provided below, indicate which firms received written notification of work items to be subcontracted. In the appropriate space, also indicate when the M/WBE firms received subsequent telephone solicitations. Please attach additional sheets so that all firms contacted are listed and attach photo copies of all written/fax solicitations to M/WBES to this documentation.

M/WBE Firm Contacted	Name	Tel. No.	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

3. Were the services of the County Minority Business Office used to assist the contractor in the recruitment of M/WBES or to assist in solving other problems? Yes _____ No _____

Contact was made by _____ Telephone _____

Written correspondence _____ Date contacted _____

Staff person contacted _____

C. PROVIDING M/WBES WITH ASSISTANCE

1. Explain any efforts undertaken to provide M/WBES with information regarding project plans, specifications and requirements of the project:

2. Describe any efforts initiated to provide special assistance to M/WBE firms interested in participating in this project:

3. Describe any efforts undertaken to assist M/WBE firms in obtaining bonding, lines of credit, or insurance required by the County for this project:

4. Was solicitation for M/WBEs advertised in local papers, ethnic periodicals, or trade journals? If YES, please list the name of the periodical and dates advertised.

D. SOLICITING QUOTES FROM M/WBE FIRMS

Contractors must solicit quotes in good faith with interested M/WBE firms. Quotes and bids from interested M/WBEs must not be rejected by bidders without sound justification based upon a thorough investigation of the capabilities of the M/WBE firms.

1. Indicate in the space provided below, which M/WBE firms submitted quotes on the project proposal. Also provide a brief explanation of why any of these M/WBE quotes were rejected. If price was a determining factor, provide documentation showing the non-minority quotes. Please attach additional sheets if necessary.

Name of M/WBE Firm	Explanation for rejecting quote
--------------------	---------------------------------

* To be included in contract documents or those procurements which have M/WBE contract goals.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
MINORITY/WOMEN-OWNED BUSINESS ENTERPRISE PROGRAM
MBE/WBE ASSURANCES AFFIDAVIT

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS AFFIDAVIT WITH THE BID PROPOSAL SHALL BE CAUSE FOR REJECTION OF THE BID.

The undersigned, fully cognizant of the Flood Control District of Maricopa County MBE/WBE Program requirements and of the goal established, hereby certifies that in the preparation of this bid,

(the entity submitting the bid)

(CHECK ONE)

_____ Will meet the **established** goal for participation by Minority/Women-Owned Business Enterprises.

_____ Will provide the necessary documentation to Minority Business Office to establish that a good faith effort was made.

The first and second low bidders will specify their MBE/WBE participation on the Actual Participation Affidavit or provide documentation of their good faith efforts not later than 4:00 p.m., the seventh calendar day following the bid opening. If participation is "None", the documentation of bidder's good faith efforts to obtain the participation. This documentation will be reviewed by the MBO to determine whether in fact a comprehensive "good faith" effort has been implemented. The required affidavit shall be obtained by the apparent first and second low bidders from the Minority Business Office, 2901 West Durango Street, Phoenix, Arizona 85009, Telephone 506-4068, following the bid opening and verbal notification from the Procurement Officer of the Procurement Agency; a SAMPLE affidavit form for reference purposes follows.

Name of Firm

Signature

Title

STATE OF ARIZONA)
)ss
County of Maricopa)

Subscribed and sworn to before me this ____ day of _____, 199__.

Notary Public

My Commission Expires:_____

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
MINORITY/WOMEN OWNED BUSINESS ENTERPRISE PROGRAM
ACTUAL MBE/WBE PARTICIPATION AFFIDAVIT
 (NOTE: COMPLETED AFFIDAVIT MUST BE SUBMITTED WITHIN SEVEN CALENDAR DAYS
 FOLLOWING THE BID OPENING).

 Name of Contractor

Project/Contract Number 94-37
 Contract M/WBE Goal: 10 %

Total Amount of Contract _____

 Contact Person

 Street No.

 City State Zip

<u>Minority/Women Owned Firm</u>	<u>Principal</u>	<u>Address</u>	<u>Type of Work</u>	<u>Proposed Contract Percentage</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

SAMPLE

TOTALS (Dollars/Percentage) _____

The undersigned has entered into a formal agreement with the MBE/WBE subconsultants/subcontractors /suppliers listed above, in the execution of this contract with Maricopa County.

 Signature

 Title

 Date

STATE OF ARIZONA }
 }ss
 County of Maricopa }

Subscribed and sworn to before me this _____ day of _____ by _____
 Notary Public

My commission Expires: _____

**MARICOPA COUNTY
MINORITY/WOMEN-OWNED BUSINESS ENTERPRISES PROGRAM**

MBE/WBE PARTICIPATION REPORT
(To be attached with Request for Pay)

Date: _____
Contractor: _____
Contact Person: _____
Address: _____
Telephone: _____

Project: Dysart Drain Improvements Bridge
Contract Number: FCD 94-37
For Pay Period of: _____

Subcontractor: _____
Person to Contact: _____
Address: _____
Telephone Number: _____

Type of Firm: _____
Class of Work: _____

Subcontract Amount: _____
Amount Earned: _____
(Commission) This Period: _____

Total Earned by This Subcontractor: _____
Total MBE/WBE Contract Goal, %: 10%
Total Cumulative MBE/WBE: _____

Participation on This Contract, %: _____
MBE/WBE subcontract payment made
during this reporting period (yes or no): _____

Copy to: Minority Business Office
2901 West Durango Street
Phoenix, Arizona 85009

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into this ____ day of _____, 1994 by and between the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, hereinafter called the OWNER, acting by and through its BOARD OF DIRECTORS, and _____, hereinafter called the CONTRACTOR.

WITNESSETH: That the said CONTRACTOR, for and in the consideration of the sum of _____ (\$ _____) to be paid to him by the OWNER, in the manner and at the times hereinafter provided, and of the other covenants and agreements herein contained, hereby agrees for himself, heirs, executors, administrators, successors, and assigns as follows:

ARTICLE I - SCOPE OF WORK: THE CONTRACTOR shall construct, and complete in a workmanlike and substantial manner and to the satisfaction of the Chief Engineer and General Manager, a project for the Flood Control District of Maricopa County, designated as Contract FCD 94-37, and furnish at its own cost and expense all necessary machinery, equipment, tools, apparatus, materials, and labor to complete the work in the most substantial and workmanlike manner according to the Plans and Construction Specifications on file with the Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona, and such modifications of the same and other directions that may be made by the Flood Control District of Maricopa County as provided herein.

ARTICLE II - CONTRACT DOCUMENTS: The Construction Specifications (Invitation to Bid, Plans, Standard Specifications and Details, Supplementary General Conditions, Special Provisions, Addenda, if any, Proposal, Affidavits, Performance Bond, Payment Bond, Certificates of Insurance, and Change Orders, if any, are by this reference made a part of this Contract and shall have the same effect as though all of the same were fully inserted herein.

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

ARTICLE IV - PAYMENTS: For and in consideration of the faithful performance of the work herein embraced as set forth in the Contract Documents, which are a part hereof and in accordance with the directions of the OWNER, through its Engineer and to its satisfaction, the OWNER agrees to pay the said CONTRACTOR the amount earned, computed from actual quantities of work performed and accepted or materials furnished at the unit bid price on the Proposal made a part hereof, and to make such payment in accordance with the requirements of A.R.S. Section 34-221, as amended. The CONTRACTOR agrees to discharge its obligations and make payments to its subcontractors and suppliers in accordance with A.R.S. Section 34-221.

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

ARTICLE VI - NEGOTIATION CLAUSE: Recovery of damages related to expenses incurred by the CONTRACTOR for a delay for which the OWNER is responsible, which is unreasonable under the circumstances and which was not within the contemplation of the parties to the contract, shall be negotiated between the CONTRACTOR and the OWNER. This provision shall be construed so as to give full effect to any provision in the contract which requires notice of delays, provides for arbitration or other procedure for settlement or provides for liquidated damages.

ARTICLE VII - COMPLIANCE WITH LAWS: The CONTRACTOR is required to comply with all Federal, State and local ordinances and regulation. The CONTRACTOR's signature on this contract certifies compliance with the provisions of the I-9 requirements of the Immigration Reform Control Act of 1986 for all personnel that the CONTRACTOR and any subcontractors employ to complete this project. It is understood that the OWNER shall conduct itself in accordance with the provisions of the Maricopa County Procurement Code.

ARTICLE VIII - MBE/WBE PROGRAM: The Flood Control District of Maricopa County will endeavor to ensure in every way possible that minority and women-owned business enterprises shall have every opportunity to participate in providing professional services, purchased goods, and contractual services to the Flood Control District of Maricopa County without being discriminated against on the grounds of race, religion, sex, age, disability, or national origin. The Maricopa County Minority Business Program implemented January 1, 1992, is incorporated by reference.

ARTICLE IX - ANTI-DISCRIMINATION PROVISION: The contractor agrees not to discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, or disability and further agrees not to engage in any unlawful employment practices. The CONTRACTOR further agrees to insert the foregoing provision in all subcontracts hereunder.

IN WITNESS WHEREOF: Five (5) identical counterparts of this Contract, each of which shall for all purposes be deemed an original thereof, have been duly executed by the parties hereinabove named, on the date and year first above written.

Party of the First Part

FLOOD CONTROL DISTRICT OF
MARICOPA COUNTY PARTY OF
THE SECOND PART

By: _____
Signature

By: _____
Chairman, Board of Directors

Title: _____

Date: _____

ATTEST:

Tax Identification Number

Clerk of the Board

RECOMMENDED BY:

Interim Chief Engineer and General Manager
Flood Control District of Maricopa County

Date: _____

LEGAL REVIEW

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

By: _____
District, General Counsel

Date: _____

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

KNOW ALL MEN BY THESE PRESENTS:

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

WHEREAS, the Principal has entered into a certain written contract with the Flood Control District of Maricopa County, dated the _____ day of _____, 1994 for Contract FCD 94-37 which contract is hereby referred to and made a part hereof as fully and to the same extent as if copies at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall promptly pay all monies due to all persons supplying labor or materials to the Principal or the Principal's Subcontractors in the prosecution of the work provided for in the contract, this obligation is void. Otherwise it remains in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of the 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, conditions and limitations of Title 34, Chapter 2, Article 2, Arizona Revised Statutes, to the same extent as if it was copied at length in this Agreement.

The prevailing party in a suit on this bond shall recover as part of the judgement reasonable attorney's fees that may be fixed by the court or a judge thereof.

Witness our hands this _____ day of _____, 1994.

Principal Seal

By: _____

Title: _____

Agency of Record, State of Arizona

Agency Address

BOND NUMBER: _____

Surety Seal

By: _____

Title: _____

ATTACH SURETY POWER OF ATTORNEY

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

KNOW ALL MEN BY THESE PRESENTS:

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

WHEREAS, the Principal has entered into a certain written contract with the Flood Control District of Maricopa County, dated the _____ day of _____, 1994, for Contract FCD 94-37, which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

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

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

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

Witness our hands this _____ day of _____, 1994.

Principal Seal

By: _____

Title: _____

Agency of Record, State of Arizona

Agency Address

Surety Seal

BOND NUMBER: _____

By: _____

ATTACH SURETY POWER OF ATTORNEY

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CERTIFICATE OF INSURANCE

CONTRACT FCD **94-37**

PROJECT TITLE **Dysart Drain Bridges and Utility Crossings**

NAME AND ADDRESS OF INSURANCE AGENCY	INSURANCE 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	EXPIRATION DATE	LIMITS OF LIABILITY IN \$1,000 MINIMUM each occurrence	
	COMMERCIAL GENERAL <input checked="" type="checkbox"/> LIABILITY FORM <input checked="" type="checkbox"/> PREMISES OPERATIONS <input checked="" type="checkbox"/> CONTRACTUAL <input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input checked="" type="checkbox"/> EXPLOSION & COLLAPSE <input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input checked="" type="checkbox"/> UNDERGROUND HAZARD <input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS <input checked="" type="checkbox"/> PERSONAL INJURY			BODILY INJURY per person PROPERTY DAMAGE each occurrence	\$5,000 Single Combined
	COMPREHENSIVE AUTO <input checked="" type="checkbox"/> LIABILITY & NON-OWNED			SAME AS ABOVE	
	<input type="checkbox"/> EXCESS LIABILITY			NECESSARY IF UNDERLYING NOT ABOVE MINIMUM	
	<input checked="" type="checkbox"/> WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY			STATUTORY each accident	\$100
	<input type="checkbox"/> ENGINEERS PROFESSIONAL LIABILITY			EACH CLAIM AND ANNUAL AGGREGATE	
	<input checked="" type="checkbox"/> OTHER In addition to the Flood Control District, add the U.S. Department of Air Force (Luke Air Force Base) and Maricopa County, as additional insureds.				

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

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
 2801 West Durango Street
 Phoenix, Arizona 85009

DATE ISSUED _____

AUTHORIZED REPRESENTATIVE _____

Drafting Forms \ FormBB SRN

It is further agreed that:

The Contractor hereby agrees to indemnify and save harmless the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, Maricopa County, and the U.S. Department of the Air Force (Luke Air Force Base), or any of their departments, agencies, officers or employees, from and against all loss, expense, damage or claim of any nature whatsoever which is caused by any activity, condition or event arising out of the performance or nonperformance of any of the provisions of this Agreement, with the exception of liability for loss resulting from the sole negligence of the Flood Control District, its agents, employees, or indemnities.

The Flood Control District of Maricopa County, Maricopa County, and the U.S. Department of the Air Force (Luke Air Force Base) shall in all instances be indemnified against all liability, losses and damages of any nature for or on account of any injuries to or death of persons or damages to or destruction of property arising out of or in any way connected with the performance or nonperformance of this Agreement, except such injury or damage as shall have been occasioned by the sole negligence of the Flood Control District of Maricopa County, Maricopa County, and the U.S. Department of the Air Force (Luke Air Force Base).

The above cost of damages incurred by the Flood Control District of Maricopa County, Maricopa County, the U.S. Department of the Air Force (Luke Air Force Base) or any of their departments, agencies, officers or employees, or others aforesaid shall include in the event of an action, court costs, expenses for litigation and reasonable attorney's fees.

Firm

Date

Principal

Title

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT FCD 94-37**

**DYSART DRAIN IMPROVEMENTS PROJECT
BRIDGES AND UTILITY CROSSINGS**

SUPPLEMENTARY GENERAL CONDITIONS

SPECIFICATIONS

Except as otherwise amended in these Supplementary General Conditions and the Construction Special Provisions, construction of this project shall be in accordance with all applicable Maricopa Association of Governments (MAG) Uniform Standard Specifications and Uniform Standard Details, latest revision, together with the Maricopa County Department of Transportation (MCDOT) Supplements to the Uniform Standard Details.

PRECEDENCE OF CONTRACT DOCUMENTS

In case of a discrepancy or conflict, Project Plans will govern over the MAG Standard Specifications and Details, and the Maricopa County Department of Transportation Supplements to the Uniform Standard Details. The Supplementary General Conditions and Construction Special Provisions will govern over the MAG Standard Specifications and Details, the Maricopa County Department of Transportation Supplements to the Uniform Standard Details, and the Project Plans, and Change Orders will govern over the Supplementary General Conditions, Construction Special Provisions, MAG Standard Specifications and Details, Maricopa County Department of Transportation Supplements to the Uniform Standard Details, and Project Plans.

Subsection 101.2 - Definitions and Terms:

1. Change the definition of the phrase "Board of Supervisors" to being the Board of Directors acting under the authority of the laws of the State of Arizona and in their capacity of the Board of Directors of the Flood Control District of Maricopa County.
2. Change the definition of the phrase "Budget Project" to being a project financed by funds set aside in the annual budget or otherwise approved by the Flood Control District of Maricopa County Board of Directors.
3. Add to the definition of the phrase "Contract Documents", the phrase "Supplementary General Conditions".
4. Change the definition of the term "Engineer" to being the person appointed by the Flood Control District of Maricopa County Board of Directors to the office of Chief Engineer and General Manager of the Flood Control District of Maricopa County acting directly or through its authorized representative, the Chief of the Flood Control District of Maricopa County Construction and Operations Division.
5. Change the definition for the phrase "Notice of Award" to a letter from the Flood Control District of Maricopa County advising Contractor that it is the successful bidder and the Flood Control District of Maricopa County has accepted its proposal.
6. Change the definition of the term "Owner" to the Flood Control District of Maricopa County, acting through its legally constituted officials, officers, or employees.
7. Whenever the word "District" is used in these Specifications, it shall mean the Flood Control District of Maricopa County.

8. Add the definition for Maricopa County Minority Business Office (MBO); the office responsible for administering the Maricopa County Minority and Women Owned Business Enterprise Program.
9. Add the definition for the Maricopa County Minority and Women Owned Business Enterprise Program as being the Program adopted by the Board of Supervisors effective January 1, 1992.

Subsection 102.5 - Preparation of Proposal: Add the following:

Proposals, including the Bidding Schedule, must be legibly written in ink or typed.

It shall be the responsibility of prospective bidders to determine, prior to submission of a bid, if any addenda have been issued by the Flood Control District. This may be accomplished by calling 602-506-1501. Any addendum issued, if not already bound into the Special Provisions, **must be attached and included as part of the Specifications** and any quantities on the Bidding Schedule requiring change shall be adjusted to the new figure by pen and ink. **Bids which do not have appropriate addenda attached and show appropriate changes to the Bidding Schedule, and receipt of addenda acknowledged in the Proposal shall be invalid.**

The bidder's Arizona State Contractor's License number and the classification under which it proposes to perform the work shall be shown on the proposal. An **A General Engineering License** is required for this contract. The two lowest bidders may be required to provide certification of prior satisfactory completion for similar construction and to furnish a copy of their license and the renewal certificate.

Subsection 102.6 - SubContractors' List: Add the following:

A list of subContractors to be employed on the project shall be submitted with the bid, on the form provided in the Proposal. No change of the subContractors named therein will be made unless first approved in writing by Owner.

Subsection 102.7 - Irregular Proposals: Add the following :

- (F) If bidder fails to complete and submit the Maricopa County Minority and Women-Owned Business Enterprises Assurances Affidavit, the bid will be considered nonresponsive and rejected.
- (G) If bidder fails to acknowledge AND attach any addendum issued, if addendum is not already bound into the Specifications, the bid will be considered nonresponsive and rejected.
- (H) If bidder fails to utilize Owner's bond forms, the bid will be considered nonresponsive and rejected.
- (I) If bidder fails to return the entire specifications document, the bid will be considered nonresponsive and rejected.
- (I) If bidder fails to attend Mandatory Pre-Bid Conference, the bid will be rejected and not opened.

Subsection 103.6 - Contractor's Insurance: Add the following:

A statement from bidder's insurance carrier shall be included in the proposal certifying that it will furnish the specified kind and amounts of insurance to the bidder if it is awarded the contract. As required by law, the statement will be from an insurance carrier or carriers authorized to do business in the State of Arizona, or countersigned by an agent of the carrier authorized to do business in the State of Arizona. Concurrently with the execution of the contract, Contractor shall furnish a Certificate of Insurance using the included Certificate or one of equal wording, that names the additional insured as set out in the Certificate. The Certificate shall also name the additional insureds as Certificate Holders. The types of insurance and the limits of liability shall be as indicated on the included form.

Subsection 103.6.1(D) - Contractor's Insurance: Add the following:
Include additional insureds as indicated on the included Certificate of Insurance.

Subsection 103.6.2 - Indemnification of the Contracting Agency Against Liability: Add the following:
Additionally, Contractor shall execute the Indemnification on Page 31 of 31 of the Contract Documents.

Subsection 104.1 - Work to be Done: Add the following sentence to 104.1.1:
All water for construction purposes, drinking water, lighting, temporary electric power, heat and telephone service shall be arranged and provided for as per requirements of the work by Contractor at his expense.

Add the following to 104.1.2:

El Mirage Road and Dysart Road may be closed for up to 120 days each for bridge and roadway construction, however, El Mirage Road and Dysart Road cannot be closed concurrently. At the time of the pre-construction conference, the Contractor shall submit for review and approval traffic control plans for Dysart Road and El Mirage Road detailing the necessary construction signing and safety measures.

Reconstruction of the Morton Salt bridge cannot occur concurrently with the reconstruction of the Dysart Road bridge, and must be completed and reopened to traffic within 120 days after its closure for demolition. The Morton Salt bridge must be open for use by Morton Salt while the Dysart Road bridge and associated roadway is under construction.

The existing access to the Amerigas Facility off of Dysart Road at the southwest corner of the Amerigas Facility (northeast of the Dysart Road bridge) must be maintained and open to Amerigas traffic at all times during construction. If the Contractor fences off the Temporary Construction Easement along the south side of the Amerigas property, the Contractor will provide a 20 foot wide access gate immediately east of the existing Amerigas access gate off Dysart Road in the construction fencing along the north side of the Temporary Construction Easement through the Amerigas facility. The Contractor must contact the Amerigas Facility Manager at least 7 calendar days in advance of any access onto the Amerigas Facility to determine and establish the access requirements.

Subsection 104.2 - Alteration of Work: Add the following to 104.2.2:

The soil boring logs and geotechnical report are available for review at the District, and the Contractors are encourage to do so. No guarantee is made of the accuracy of the boring logs in the soils report. The Contractor shall make his own determination as to soil and subsurface conditions and shall complete his work in whatever material and under whatever condition he may encounter or create, without extra cost (except as modified in MAG). Existing moisture conditions shall be no basis for claim for additional monies or time extensions. The Contractor shall manipulate the existing soil as required to achieve stable soil conditions and the required densities, as well as safe and stable side slopes during construction activities.

Subsection 105.1 - Authority of Engineer: Add the following:

105.1.1 - **Engineer's Evaluation:** Engineer will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to subsections 105.3.1 and 106.4. Engineer will be the sole judge of acceptability. No "or-equal" or substitute will be ordered, installed or utilized without Engineer's prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing. Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any "or-equal" or substitute. Engineer will record time required by Engineer and Engineer's Consultants in evaluating substitutes proposed or submitted by Contractor pursuant to subparagraphs 105.3.1 and 106.4(B) and in making changes in the Contract Documents (or in the provisions of any other direct contract with Owner for work on the project) occasioned thereby. Whether or not Engineer accepts a substitute item so proposed or submitted by Contractor, Contractor shall reimburse Owner for the charges of Engineer and Engineer's Consultants for evaluating each such proposed substitute item.

Subsection 105.3 - Conformity with Plans and Specifications: Add the following:

105.3.1 - Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence or procedure of construction is shown or indicated and expressly required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, technique, sequence or procedure of construction acceptable to Engineer. Contractor shall submit sufficient information to allow Engineer, in Engineer's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The procedure for review by Engineer will be similar to that provided in subparagraph 106.4(B).

Subsection 105.6 - Cooperation with Utilities: Add the following:

An attempt has been made to determine the location of all underground utilities and drainage pipes, culverts, and structures; however, it shall be Contractor's responsibility to cooperate with the pertinent utility companies so that any obstructing utility installation(s) may be adjusted. Should Contractor's operations result in damage to any utility the location of which has been brought to its attention, he shall assume full responsibility for such damage. Contractor shall contact Arizona Blue Stake (telephone number 263-1100) a minimum of two (2) working days before beginning any underground work. In addition, Blue Stake notification(s) shall be maintained on a current basis.

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

Santa Fe Pacific Pipeline Partners, L.P.
Mr. Dan Tarango (local) (602) 278-2320
Mr. G.T. Reed (Los Angeles) (213) 486-7736

Arizona Public Service Company
Mr. John Herrera (602) 371-6942

Insight Communications
Mr. Keith Auzenne (602) 780-2222

Southwest Gas
Mr. Terry Hughes (602) 484-5257

U.S. West Communications (USWest)
Mr. Curt Sayer (602) 831-4777
Ms. Beth Wood (602) 395-2402

Amerigas
Mr. David "Gus" Harbushka (602) 935-2661

Morton Salt Company
Mr. Gary McFarlin (602) 247-3000

Luke Air Force Base
Mr. Zane Hoit (602) 856-7634

In addition to the utility coordination normally required, the following specific utility coordination is required:

SANTA FE PACIFIC PIPELINE PARTNERS, LTD: A jet fuel pipeline owned and operated by Santa Fe Pacific Pipeline Partners crosses the channel alignment at Dysart Road. The pipeline has been temporarily relocated by others to a point approximately 70 feet east of Dysart Road, and approximately 3 feet under the existing channel. Upon completion of the reconstruction of the Dysart Road bridge, and prior to construction of the new roadway pavement approaches and approach slabs to the bridge, the pipeline will be permanently

relocated and attached to the bridge by others. The permanent relocation and attachment to the bridge must be coordinated with Santa Fe Pacific Pipeline Partners, Ltd (SFPL). Prior to construction of the new roadway pavement approaches and approach slabs to the bridge, SFPL must be given 45 days advance notice to allow final relocation and attachment of the pipe to the bridge. It is anticipated that the relocation and attachment of the new pipeline by SFPL will require approximately two weeks once the relocation work begins. The relocated pipeline must then be protected in place for the duration of construction. The Contractor must provide access for SFPL under the bridge, including removal of soil as required, and in the vicinity of the work for the relocation of the pipeline. Soil will be removed only to the extent that access is feasible and reasonable. Any scaffolding will be provided by SFPL.

ARIZONA PUBLIC SERVICE (APS): Existing APS 12kV overhead lines are located along the east side of Dysart Road and El Mirage Road, and over the Morton Salt bridge. Temporary shooflys of the existing 12kV overhead electrical service may be required during construction of the drilled shafts for the El Mirage Road and Dysart Road bridges, and the Morton Salt bridge. The shoofly for the 12kV overhead lines at El Mirage Road will be in place by others prior to the start of construction. The Contractor will determine the need for such temporary shoofly's at Dysart Road and the Morton Salt bridge based on his anticipated equipment and procedures for drilled shaft and bridge construction. In the event a temporary shoofly is deemed necessary, APS must be contacted to coordinate the construction of the shooflys. APS must be given a minimum of 45 days advance notice to allow for shoofly construction at each location, with approximately 30 days required for the installation of each shoofly. Within 14 calendar days of completion of bridge construction, the Contractor will notify APS to remove the shoofly.

USWest overhead teleco service is under-built on the 12kV power poles at the Morton Salt bridge. USWest will also be contacted in advance when APS is contacted to ensure the relocation of the USWest service with the shoofly installation.

Insight Communications CATV service is under-built on the 12kV/69kV power poles along Dysart Road. Insight Communications will also be contacted in advance when APS is contacted to ensure the relocation of the CATV service with the shoofly installation.

Existing APS 69 kV overhead power lines are located along the east side of Dysart Road and have approximately forty feet of ground clearance. The Contractor must determine the safe existing overhead clearance available and abide by all appropriate APS and other applicable safety requirements when working under these overhead lines, including adequate clearances from the lines. The Contractor will determine the need for a temporary shoofly of these lines based on his anticipated equipment and procedures for drilled shaft and bridge construction. In the event a temporary shoofly is deemed necessary, APS must be contacted to coordinate the construction of the shoofly. APS must be given a minimum of 45 days advance notice to allow for shoofly construction, with approximately 30 days required for installation of the shoofly. Within 14 calendar days of completion of bridge construction, the Contractor will notify APS to remove the shoofly.

If the Contractor elects to utilize any of the above described shoofly's, he shall contact APS for the cost of each shoofly. The APS provided cost of the shoofly will be included in the Contractor's bid per Section 502 of the Special Provisions.

MORTON SALT FACILITY AND AMERIGAS: Two existing steel carrier pipes cross the Dysart Drain channel within the Morton Salt facility east of Dysart Road and contain utility pipelines as follows:

Station 59+64	8" SDR11 HDPE brine line
	8" SDR11 HDPE salt slurry line
	6" SDR11 HDPE brine line
	2" SDR11 HDPE water line

Station 65+80

6" SDR11 HDPE water line
6" carbon steel brine line
2" PVC electrical conduit

The utilities in the existing carrier pipes must remain in service and shall be protected in place at all times during construction. The existing utilities will be relocated to the new replacement carrier pipes by Morton Salt. The Engineer will notify Morton Salt upon completion and acceptance of the construction of the Morton Salt bridge and the two replacement carrier pipes. At that time, Morton Salt may elect to begin the relocation of the utility pipelines on to the replacement carrier pipes.

The existing utility pipelines cross the channel at the two existing carrier pipes, and have very shallow cover at the north and south sides of the channel. The Contractor will exercise extreme caution when working in the area of the Amerigas and Morton Salt Facilities so as not to damage any of the existing pipelines. Any damage to the pipelines, and associated environmental clean up costs should the salt brine enter the channel, will be corrected by the Contractor solely at the Contractor's cost.

The existing chain link fence and gates along the north side of the Dysart Drain channel (south side of the Amerigas property and east of Dysart Road) shall be carefully removed and stored as required for the construction of the two carrier pipes and the Morton Salt bridge. The fence and gates will then be reinstalled in the same location and in a similar condition as when removed.

IRRIGATION AND FARM FACILITIES: Two existing carrier pipes located near Stations 72+00 and 72+75 (east and west sides of the Dysart Road bridge) shall be removed by the Contractor and the pipes delivered to Mr. John Roach. The Contractor will contact Mr. Roach at 935-9018 at least 14 calendar days in advance of the removal of the pipes to obtain instructions on where to deliver the pipes.

Subsection 105.7- Cooperation Between Contractors: Add the following:

APS crews, an SFPL Contractor, and Morton Salt crews and Contractor will be required to perform certain work within the project limits concurrently with the project. The Contractor shall cooperate as necessary with these various crews and the associated activities and coordinate his work accordingly.

Subsection 105.8 - Construction Stakes, Lines, and Grades: Add the following:

A. The Engineer will furnish the project survey control line together with a Bench Mark which the Contractor will use to set line and grade for all construction. All other surveying required for the project shall be the Contractor's responsibility. The Engineer will not set any construction stakes.

B. Before any construction work is started, the Engineer shall perform all base surveys and cross sections of existing conditions that may be required as a basis for quantity determination.

Subsection 106.1 - Source of Materials and Quality: Add the following:

Select Material, Aggregate Base, Mineral Aggregate, concrete, steel products and pipe shall be obtained from commercial sources. Contractor shall pay all royalties, or any other charges or expenses, incurred in connection with the securing and hauling of the material. Contractor will be required to furnish Engineer with a list of its proposed commercial sources prior to use, and shall present certificates stating that the material produced from any commercial sources is in accordance with the Uniform Standard Specifications and these Supplementary General Conditions.

Subsection 106.4 - Trade Names and Substitutions: Replace with the following:

Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function and quantity required. Unless the specification or description contains or is followed by words reading that no like, equivalent or "or-equal" item or no substitution is permitted, other items of material or equipment of other Suppliers may be accepted by Engineer under the following circumstances:

A) "Or-Equal": If in Engineer's sole discretion an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by Engineer as an "or-equal" item, in which case review and approval of the proposed item may, in Engineer's sole discretion, be accomplished without compliance with some or all of the requirements for acceptance of proposed substitute items.

B) Substitute Items: If in Engineer's sole discretion an item does not qualify as an "or-equal" item under subparagraph 106.4 (A), it will be considered a proposed substitute item. Contractor shall submit sufficient information as provided below to allow Engineer to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. The procedure for review by Engineer will include the following and may be supplemented in the Special Provisions and as Engineer may decide is appropriate under the circumstances. Requests for review of proposed substitute items of material or equipment will not be accepted by Engineer from anyone other than Contractor. If Contractor wishes to furnish or use a substitute item of material or equipment, Contractor shall first make written application to Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar in substance to that specified and be suited to the same use as that specified. The application will state the extent, if any, to which the evaluation and acceptance of the proposed substitute will prejudice Contractor's achievement of completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for work on the project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated. The application will also contain an itemized estimate of all costs or credits that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other Contractors affected by the resulting change, all of which will be considered by Engineer in evaluating the proposed substitute. Engineer may require Contractor to furnish additional data about the proposed substitute.

C) Contractor's Expense: All data to be provided by Contractor in support of any proposed "or-equal" or substitute item will be at Contractor's expense.

Subsection 106.5 - Contractors Marshaling Yards: Add the following:

The Contractor shall obtain approval of the Engineer when using vacant property to park and service equipment and store materials for use. The Contractor will obtain prior written approval of the property owner for such use and submit a copy of the approval to the Engineer prior to use of the property.

The Contractor will grade all Temporary Construction Easements (TCE) to a condition similar to or better than the pre-existing condition.

Subsection 107.1 - Laws to be Observed: Add the following:

To Paragraph (B):

The work for this contract is subject to the provisions of the Davis-Bacon Act. The prevailing wage rates for the affected labor categories are appended and made a part of these Supplementary General Conditions. Any modification to these rates during the period of this contract shall be incorporated by this reference and made a part hereof.

To Paragraph (G):

Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor Regulations (29 CFR Part 5). Contractor shall also comply with all applicable provisions of the Americans with Disabilities Act (Public Law 101-336, 42 U.S.C. 12101-12213) and all applicable federal regulations under the Act, including CFR Parts 35 and 36.

Subsection 107.2 - Permits: Replace with the following:

Contractor shall obtain all permits and licenses, including those required by MCDOT, pay all charges, fees, taxes, and provide all notices necessary and incidental to the due and lawful prosecution of the work.

Subsection 107.2.1 - NPDES Permit Requirements: Add the following:

- A. This project is subject to the National Pollutant Discharge Elimination System (NPDES) Stormwater requirements for construction sites under the Environmental Protection Agency (EPA) General Permit for Arizona. Under provisions of that permit, the Contractor shall be designated as permittee, and shall take all necessary measures to assure compliance with the NPDES General Permit for Arizona as well as all other applicable Federal, State and local laws, ordinances, statutes, rules and regulations pertaining to stormwater discharge. As the permittee, the Contractor is responsible for preparing, in a manner acceptable to the EPA, all documents required by this regulation, including but not necessarily limited to:
1. Stormwater Pollution Prevention Plan (SWPPP) for the project, including certification of compliance form. Contractor shall be required to develop, implement, update and revise the SWPPP, as necessary, in order to assure compliance with the EPA permit requirements. The SWPPP shall be retained on the project site at all times during construction.
 2. Notice of Intent (NOI) to assure compliance with the NPDES General Permit for Arizona, including certification of signatures.
 3. Notice of Termination (NOT) of coverage under NPDES General Permit for Arizona.
- B. Preliminary copies of the NOI and the SWPPP shall be submitted to Owner during the preconstruction meeting and shall be subject to review by Owner prior to implementation.
- C. Contractor shall submit the completed and duly signed NOI forms no later than forty-eight (48) hours prior to the initial start of construction on the project to the following agencies:

EPA Stormwater Notice of Intent
P.O. Box 1215
Newington, VA 22122

A copy of the completed NOI form shall be submitted to the following:

Stormwater Coordinator
Arizona Department of Environmental Quality
P.O. Box 600
Phoenix, AZ 85001-0600

Maricopa County, Current Planning
Planning & Development Division
301 West Jefferson, Third Floor
Phoenix, Arizona 85003
(602) 506-3301

Failure by the Contractor (or subcontractors of any tier) to submit NOI's within the mandated time frame shall result in delay of the construction start date, and no claim for extension of time will be granted for such delay. A copy of the completed NOI shall be posted at the construction site.

- D. Inspections of all stormwater pollution control devices on the project shall be performed by Contractor on a monthly basis and following each rainfall of 0.50 inches or more in a 24-hour period at the project site as required under provisions of the NPDES General Permit for Arizona. Contractor shall prepare reports on such inspections and retain the reports for a period of three years following the completion of the project. Inspection reports shall be submitted monthly to Owner along with progress payment requests. Additionally, Contractor shall maintain all stormwater pollution control devices on the project in proper working order, which shall include cleaning and/or repair during the duration of the project.
- E. Contractor warrants that its employees and subcontractors of any tier and their employees shall at all times comply with all applicable laws, ordinances, statutes, rules and regulations set forth by all federal, state and local governments and the Environmental Protection Agency in connection with NPDES Permitting requirements and laws and regulations pertaining to air, groundwater and surface water quality.

Fines and penalties imposed by the EPA against Owner or the Contractor, for Contractor's failure to comply with any of the requirements of NPDES General Permit of Arizona, shall be borne by the Contractor.

- F. Upon project completion, acceptance and demobilization, Contractor shall submit its completed, duly executed NOT form to the EPA, with a copy to the Arizona Department of Environmental Quality (and the appropriate municipality), at the address listed in Section (B) above, thereby terminating all NPDES permit coverage for the project. Contractor shall then surrender to Owner copies of the SWPPP, inspection information and all other documents prepared and maintained by the Contractor in compliance of the NPDES General Permit. Contractor shall retain the originals of such documents for a period of three (3) years following the completion of the project.
- G. The Lump Sum price for the SWPPP shall include all material, labor, and all other costs relating to the preparation, installation and maintenance of the SWPPP during project construction, including assuring proper operation of the pollution control devices installed, and all maintenance, cleaning, and disposal costs associated with clean-up and repair following storm events, runoff or releases on the project. The Lump Sum price for the SWPPP shall be inclusive of all costs, and no additional claims shall be made by Contractor under any other specification provision of these documents, including Change Conditions. Payment for this bid item shall be upon final completion and acceptance of the project, as per Section 109.1.
- H. Copies of all required forms and guidance for preparing the SWPPP are available in the "Drainage Design Manual for Maricopa County, Volume III Erosion Control". The manual is available at the Flood Control District, 2801 West Durango Street, Phoenix, Arizona 85009.

Payment for NPDES / SWPPP permit requirements shall be made on the basis of lump sum for all work described in Subsection 107.2 .1 for:

ITEM 107 - NPDES / SWPPP PERMITS

Subsection 107.4 - Archeological Reports: Add the following:

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Contractor, or any person working on his behalf, shall be immediately reported to the Engineer. The Contractor shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer and the Engineer. An evaluation of the discovery will be made by the authorized officer and Engineer to determine appropriate actions to prevent the loss of significant cultural or scientific resources.

Subsection 107.5: Add the following:

The entire construction site shall be considered a "Hard Hat Area" and all personnel in the area will be required to wear a hard hat.

Subsection 107.5.2 - Compliance with the Arizona Communication Standard: Add the following:

Owner will provide Contractor with Material Safety Data Sheets (MSDS) for any products known to exist on the site that are deemed health hazards. Contractor will provide a copy of Owner-provided MSDS to all subContractors.

Contractor will provide Owner and all subcontractors with MSDS for any products that have or are deemed health hazards that will be brought onto the site or created on the site by either Contractor or by any subContractors.

Contractor will provide Owner with a statement certifying that all personnel (Contractor and subcontractor) employed by Contractor or by a subContractor on the job site have received the required Hazard Communication Standard training.

Subsection 107.8 - Use of Explosives: Add the following:

Because of the Amerigas and Morton Salt Facility operations, the following restrictions shall be adhered to when working in the vicinity of the Morton Salt and Amerigas Facilities, and especially for construction of the two carrier pipe crossings and the demolition and reconstruction of the Morton Salt bridge:

1. The use of explosives will NOT be permitted for any construction activities within or near the Morton Salt and Amerigas facilities, including but not limited to the demolition of the existing Dysart Road and Morton Salt bridges.
2. The use of "OPEN FLAMES" will be kept to a minimum when working within 50 feet either side of the north permanent right-of-way line of the Dysart Drain channel. Amerigas operations sometimes requires the venting of liquified petroleum gas into the atmosphere. Prior approval from the Engineer will be required for the use of open flames in this area.
3. The Contractor shall provide both Amerigas and Morton Salt 30 days advance notice before beginning work within the limits of the Amerigas and Morton Salt Facilities.

Subsection 107.9 - Protection and Restoration of Property: Add the following:

At the Amerigas and Morton Salt facilities all existing valves, pipe barriers, etc. will be protected-in-place.

The Contractor shall protect-in-place the existing Morton Salt Facility evaporation ponds and associated berms in the vicinity of the Morton Salt bridge. No vehicular traffic shall be permitted on the pond berms within the Temporary Construction Easements near the Morton Salt bridge. Any damage to the ponds and berms, and associated environmental clean up costs should the salt brine enter the channel, will be corrected by the Contractor solely at the Contractor's cost.

Subsection 107.10 - Contractor's Responsibility for Work: Add the following:

Contractor is advised that the Dysart Drain channel functions as an outlet for agricultural irrigation tailwater and storm water runoff. Owner assumes no responsibility for notifying Contractor of any anticipated flows in these features, nor for any damages incurred by Contractor to its equipment or to any of the Contractor's work as a result of any flows of water, as described below:

- A. The Contractor shall be responsible for controlling and handling stormwater and other flows throughout the construction site, both surface drainage and channel flows, except channel flows which exceed 150 cfs as measured by gages as described below. When measured channel flows exceed 150 cfs and results in damage to the work site, the owner will pay actual cost of damage repair. Actual cost is defined as materials, labor, and equipment utilized to restore damaged work area(s). Payment for damage repair work will be in accordance with Section 109.5 of MAG Specifications, titled Actual Cost Work. No other compensation will be considered or allowed, including home office or job site overhead.
- B. Gages will be installed by the District in the Dysart Drain channel to monitor flows. The gages will be the basis of measuring and determining the flow rate in the canal. Temporary gages will be in place in the Dysart Drain channel at the time of construction at the existing spillway upstream of El Mirage Road, and also upstream of Dysart Road.
- C. The Contractor shall take all necessary precautions to protect existing structures, facilities, and new construction, Contractor's equipment, etc. from storm water runoff in the Dysart Drain channel.

Subsection 108.1 - Notice to Proceed: Delete Paragraph (A) and replace with the following:

(A) Contractor shall commence work within seven (7) calendar days after the date of the Notice to Proceed and complete all work within three hundred (300) calendar days beginning the day following the effective date specified in the Notice to Proceed.

Subsection 108.2 - Subletting of Contract: Add the following:

For this project, Contractor shall perform, with its own organization, work amounting to 50 percent or more of the total contract cost.

Subsection 108.4 - Contractor's Construction Schedule: Delete in its entirety and replace with the following:

Contractor shall submit a proposed work progress schedule to Engineer for review before starting work. Weekly updates shall be submitted to Owner's Inspector at the weekly coordination meeting.

Subsection 108.5 - Limitation of Operations: Add the following:

Should Contractor elect to perform any work after regular working hours, on weekends, or legal holidays, with or without written approval of Engineer, any charges incurred by Owner for inspection of the work, surveys or tests of materials will be deducted from monies due or to become due to Contractor.

Subsection 108.9 - Failure to Complete on Time: Add the following:

The actual cost per calendar day incurred by Owner for Administrative and Inspection Services on this project will be added to the daily charges as indicated by TABLE 108, LIQUIDATED DAMAGES, and will be deducted from monies due or to become due to the Contractor for each and every calendar day that work shall remain incomplete after the time specified for the completion of the work in the proposal, or as adjusted by the Engineer. Nothing contained in this provision shall prohibit the Owner from deducting from monies due or to become due to the Contractor for any other costs incurred by the Owner directly attributable to the delay in completing this contract.

Subsection 109.2 - Scope of Payment: Add the following:

In addition to the contained provisions, the work under this section shall consist of preparatory work and operations, including but not limited to, the movement of personnel, equipment, supplies and incidentals to the project site; the establishment of all offices, buildings and other facilities necessary for work on the project, and for all other work operations that must be performed and costs incurred prior to beginning work on the various items on the project site.

Subsection 109.7 - Payment for Bond Issue and Budget Projects: Add the following:

(A) To third paragraph, add: Payment or release of retained funds shall be made to the contractor within thirty (30) days following final payment to the contractor (reference (B) following), and contractor furnishing to Engineer satisfactory receipts for all labor and material billed and waivers of liens from any and all persons and subcontractors holding claims against the work. Additionally, Contractor shall furnish a completed Certificate of Performance to Engineer evidencing it has satisfactorily discharged all its duties in connection with the work to be performed under this Contract. The form of Certificate of Performance shall be provided to Contractor by the Engineer.

(B) Delete second and third paragraphs and replace with: The final payment will be made to Contractor by Owner within thirty (30) days following receipt of Engineer's final estimate and receipt by Owner of Consent of Contractor's Surety to said final payment.

If payment will be longer than thirty (30) days as aforesaid, Owner will provide Contractor specific written findings for reasons justifying the delay in payment.

(C) Contractor's pay estimates will be initially processed by Owners's Construction and Operations Division on a Tuesday, Tuesdays being the only day Contractor may submit a pay estimate.

APPENDIX

DAVIS BACON WAGES

General Decision Number AZ940002

Superseded General Decision No. AZ930002

State: Arizona

Construction Type:
HIGHWAY

County(ies):
STATEWIDE

HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	02/11/1994
1	02/18/1994
2	03/11/1994
3	06/17/1994
4	07/22/1994
5	08/05/1994

COUNTY(ies):
STATEWIDE

BRAZ0001C 07/01/1993

COCHISE, PIMA, and SANTA CRUZ COUNTIES; and the area of GRAHAM,
GREENLEE, and PINAL COUNTIES located East and South of the San
Francisco River to the Gila River

	Rates	Fringes
BRICKLAYERS	15.85	2.30

BRAZ0003A 07/01/1993

REMAINING COUNTIES including the area of GRAHAM, GREENLEE & PINAL
COUNTIES located West and North of the San Francisco River to the
Gila River

	Rates	Fringes
BRICKLAYERS	15.40	2.64

CARP0857A 01/01/1994

	Rates	Fringes
CARPENTERS:		
Carpenters	15.13	3.17
Piledrivermen	15.63	3.17

CARP1914B 09/01/1993

	Rates	Fringes
MILLWRIGHTS:		
Zone 1	17.00	3.40
Zone 2	18.38	3.40
Zone 3	19.00	3.40
Zone 4	20.00	3.40

DIVERS:

Zone 1:		
Diver-Wet	40.26	3.40
Diver-Standby	20.49	3.40
Zone 2:		
Diver-Wet	41.64	3.40
Diver-Standby	21.87	3.40
Zone 3:		
Diver-Wet	42.26	3.40
Diver-Standby	22.49	3.40
Zone 4:		
Diver-Wet	43.26	3.40
Diver-Standby	24.49	3.40

ZONE DEFINITIONS: Mileage shall be calculated from the construction site to the City Hall in Phoenix or Tucson, or to the workmen's residence, whichever is less:

- Zone 1: 0-30 miles
- Zone 2: 30-45 miles
- Zone 3: 45-60 miles
- Zone 4: over 60 miles

ELEC0518A 07/01/1993

	Rates	Fringes
APACHE COUNTY [South of Highway 66]; All of GILA COUNTY; NAVAJO COUNTY [South and East of boundary beginning at a point where Clear Creek crosses the Coconino-Navajo County line, extending Northeasterly along Clear Creek and Northeasterly to Cottonwood Wash, along Cottonwood Wash North easterly to where it intersects the Navajo Indian Reservation, then East along the Navajo Indian Reservation Boundary line to a point where it intersects the Navajo-Apache County Line]; and PINAL COUNTY [North of the line, "First Standard Parallel South" and East of the line, "Second Guide Meridian East"]:		
ELECTRICIANS	18.74	12%+2.00

ELEC0570A 07/01/1993

	Rates	Fringes
COCHISE, GRAHAM, GREENLEE, LA PAZ, PIMA, PINAL [Southern Portion], SANTA CRUZ, AND YUMA COUNTIES:		
ELECTRICIANS	17.00	12%+2.00

ELEC0611H 12/01/1993

	Rates	Fringes
APACHE COUNTY [Area North of Highway 66]		
ELECTRICIANS	23.06	4%+4.20

ELEC0640A 06/01/1993

	Rates	Fringes
COCONINO; MARICOPA; MOHAVE; and YAVAPAI COUNTIES; and the following portions of Counties:		
NAVAJO COUNTY (North and West of a boundary beginning at a point where Clear Creek crosses the Coconino- Navajo County line, Northeasterly along Clear Creek and Northeasterly to Cottonwood Wash, along Cottonwood Wash Northeasterly to where it intersects the Navajo Indian Reservation then Easterly along the Navajo Indian Reservation Boundary line to a point where it intersects the Navajo-Apache County line);		
PINAL (area lying North and West of the boundary line beginning at a point where Papago Indian Reservation Road No. 15 crosses		

the Pima-Pinal County line, then extending in a Northeasterly direction on Papago Indian Reservation Road No. 15 to the intersection with Highway FAS-267, extending North on Highway FAS-267 to the intersection with the Florence Canal, North and East on the Florence Canal to the intersection of the line "Second Guide Meridian East" then North to the Pinal-Maricopa County lines)

ELECTRICIANS:

Electrical contracts \$20,000,000 and over	17.95	3%+2.49
Electrical contracts under \$20,000,000	16.50	3%+2.49

ELEC0769A 04/01/1994

LINE CONSTRUCTION:	Rates		Fringes
	ZONE 1	ZONE 2	
Lineman, Technician, Crane Operator, and Pilot	21.42	23.59	3.75%+5.25
Cable Splicer	21.98	24.21	3.75%+5.25
Equipment Operator, Mechanic, and Powderman			
Mechanic	17.47	19.58	3.75%+5.25
Groundman	14.80	17.00	3.75%+5.25

ZONE DEFINITIONS FOR LINE CONSTRUCTION:

- Zone 1: Area within a 35 mile radius from City Hall in Phoenix and Tucson, and a 25 mile radius from City Hall in Yuma
 - Zone 2: Area outside Zone 1
-

ENGI0428B 07/01/1994

POWER EQUIPMENT OPERATORS:	Rates	Fringes
ZONE 1:		
GROUP 1	13.00	3.53
GROUP 2	15.92	3.53
GROUP 3	16.91	3.53
GROUP 4	17.84	3.53

ZONE PAY:

All Zones will be calculated from the nearest City Hall in Flagstaff, Phoenix, Tucson, and Yuma

- ZONE 1: 0 to 59 miles
- ZONE 2: 60 to 100 miles, add \$1.00 per hour
- ZONE 3: 101 miles and over, add \$2.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS:

GROUP 1: A-frame boom truck, winch truck, air compressor, Beltcrete, boring bridge and texture, concrete mixer (skip type), conductor, brakeman, handler, conveyor, cross timing and pipe float, curing machine, dinky (under 20 tons), elevator hoist (Husky and similar), firemen (all), forklift and Ross carrier, generator (all), highline cableway signalman, hydrographic mulcher, hydrographic seeder, joint inserter, jumbo finishing machine, Kolman belt loader, machine conveyor, multiple power concrete saw, oiler, pavement breaker, power grizzly, power sweeper, pressure grout machine, pump, roller (except as otherwise classified), self-propelled chip spreading machine, skiploader (3.5 cu. yd. and less), slurry seal machine (Moto paver driver), small self-propelled compactor (with blade) - backfill, ditch operation, straw blower, tractor (D-5 and under), tripper, tugger, welding machine, wheel-type tractor (Ford, Ferguson type with attachments, Bee Gee etc.)

GROUP 2: Aggregate plant (including crushing, screening and sand plants, etc.), asphalt plant mixer, asphalt laydown machine, backhoe (rubber tired or track, less than 1 cu. yd. MRC), Bee Gee operator boring machine, concrete batch plant (all types and sizes), concrete mechanical tamping, spreading or finishing machine (including Clary, Johnson or similar types), concrete mixer (paving type and mobile mixers), concrete pump, crane (crawler and pneumatic less than 15 ton capacity MRC), drilling machine (including water wells), elevating grader (all types and sizes except as otherwise classified), field equipment serviceman, grade checker (excluding civil engineer), paver and similar type equipment, motor grader (any type power blade - rough), oiler driver, operating engineer rigger, pneumatic tired scraper (all sizes and types), power jumbo form setter, road oil mixing machine, roller (on all types asphalt pavement), screed, self-propelled compactor (with blade, 815, 825 or equivalent - grade operation), skip loader (all types with a rated capacity over 3.5 but less than 6 cu. yd.), slip form (power driven lifting device for concrete forms), soil cement road mixing machine (single pass type), heater and planer, tractor (dozer, pusher - all), traveling pipe-wrapping machine, trenching machine, tugger (two or more)

GROUP 3: Asphalt or concrete planing, rotomill and milling machine, auto grade machine (CMI and similar equipment), boring machine (including mole, badger and similar type), concrete pump (truck mounted with boom), crane (crawler and pneumatic over 15 tons but less than 100 tons capacity MRC), crawler type tractor with boom attachment and slope bar, derrick, Gradall, heavy duty mechanic/welder, helicopter hoist operator or pilot, highline cableway, mass excavator (150 Bucyrus, Erie and similar type), mechanical hoist (two or more drums), motor grader (any type power blade - finish), mucking machine, overhead crane, piledriver engineer (portable, stationary or skid rig), power driven ditch lining or ditch trimming machine, remote control

earth moving machine, skip loader (all types with rated capacity 6 cu. yd. but less than 10 cu. yd.), slip form paving machine (including Gunnert, Zimmerman and similar types), tower crane or similar type, universal equipment operator (backhoe, clamshell, dragline, shovel etc., up to 10 cu. yd.)

GROUP 4: Crane operator (pneumatic or crawler - 100 tons hoisting capacity and over, MRC rating), skip loader (all types with rated capacity of 10 cu. yd. or more), universal equipment operator (backhoe, clamshell, dragline, shovel, etc., 10 cu. yd. and over)

Multiple-Unit Earth Equipment (Holland Loader etc.), Tractor operator, Pneumatic-Tired or Track type, Two Units - \$0.50 per hour over base rate; and \$1.00 per hour for each additional unit

* IRON0075A 08/01/1994

	Rates	Fringes
IRONWORKERS:		
0-50 miles from City Hall in Phoenix or Tucson	16.00	8.05
50-100 miles	17.50	8.05
100-150 miles	18.75	8.05
over 150 miles	20.00	8.05

LAB00383A 06/01/1990

	Rates	Fringes
LABORERS:		
GROUP 1	9.81	2.97
GROUP 2	10.71	2.97
GROUP 3	11.19	2.97
GROUP 4	11.40	2.97
GROUP 5	12.69	2.97

LABORERS CLASSIFICATIONS:

GROUP 1: Laborer, general or construction; tool dispatcher or checker; manually controlled signal operator; fence builder, guard rail builder - highway; chat box man; dumpman and/or spotter; rip rap stone man; rock slinger; form stripper; packing rod steel and pans; cesspool diggers and installers; astro turf layer; clean up - bull gang trackman, railroad; chipper (clearing and grubbing); kettleman - tarman; spikers, wrenchers-creosote tieman; floor sanders - concrete; sandblaster (pot tender); powderman tender; fine grader; all tenders not herein separately classified; window cleaner; flagger

GROUP 2: Concrete laborer (belt, pipe and/or hoseman); cement mason tender; cutting torch operator; power type concrete buggy; bander; guinea chaser

GROUP 3: Operator and tender of pneumatic and electric tools; concrete vibrating machines, chain saw (on clearing and grubbing); hydraulic jacks and similar mechanical tools not separately herein classified; pipe caulker and/or backup man - pipeline; riggers and signal man - pipeline; pipe wrapper; cribber & shorer (except tunnel); pneumatic gopher; pre-cast manhole erector

GROUP 4: Asphalt raker and ironer; air and water washout nozzleman (low and high pressure); scaler (using bos'n's chair or safety belt); tamper (mechanical - all types); sandblaster (nozzleman); concrete saw (hand-guided); concrete cutting torch; gunite (gunman, mixerman, rodman); bio-filer, pressman, installer, operator; hand-guided trencher and similarly operated equipment; driller (jackhammer and/or pavement breaker); grade setter (pipeline); pipe layer including but not limited to non-metallic transite and plastic pipe, water pipe, sewer pipe, drain pipe, and underground tile pipe and conduit); chuck tender (except tunnel)

GROUP 5: Drill doctor and/or air tool repairman; scaler (driller); form setter and/or builder; welder and/or pipelayer installing process piping; driller - core, diamond, wagon, air track, Joy, Mustang, PR-143, 220 Gardner-Denver, Hydrasonic, powderman; water blaster operator

PAIN0086B 10/01/1993

	Rates	Fringes
PAINTERS:		
ZONE 1:		
Painter	13.10	1.65
Industrial Painter (Power Plants)	16.02	1.65
ZONE 2:		
Painter	14.10	1.65
Industrial Painter (Power Plants)	17.02	1.65
ZONE 3:		
Painter	15.60	1.65
Industrial Painter (Power Plants)	18.52	1.65

ZONE DESCRIPTIONS FOR PAINTERS

- ZONE 1: 0 to 40 road miles from Courthouse in Phoenix to the construction site.
- ZONE 2: 40 to 60 road miles from Courthouse in Phoenix to the construction site.
- ZONE 3: More than 60 road miles from the Courthouse in Phoenix to the construction site.

PLAS0394A 06/01/1991

	Rates	Fringes
APACHE, COCONINO, MOHAVE AND NAVAJO COUNTIES:	Area NORTH of a	

straight line drawn between a point 35 miles due North of the City Hall in Flagstaff and a point 35 miles due North of the City Hall in Kingman, extending to the Arizona/Nevada State line on the West and extending to a point 35 miles due North of the City Hall in Holbrook, thence due East to the intersection of the Arizona - New Mexico State line:

CEMENT MASONS:

Cement Masons	18.505	3.05
Concrete Troweling Machine; Sawing and Scoring Machine;		
Curb and Gutter Machine	18.74	3.05

PLAS0394B 06/01/1991

	Rates	Fringes
COCHISE, GILA, GRAHAM, GREENLEE, LA PAZ, MARICOPA, PIMA, PINAL, SANTA CRUZ, YAVAPAI, AND YUMA COUNTIES; AND THE SOUTHERN PARTS OF APACHE, COCONINO, MOHAVE AND NAVAJO COUNTIES [Area SOUTH of a straight line drawn between a point 35 miles due North of the City Hall in Flagstaff and a point 35 miles due North of the City Hall in Kingman, extending to the Arizona / Nevada State line on the West and connecting to a point 35 miles due North of the City Hall in Holbrook, thence due East to the intersection of the Arizona - New Mexico State line]		

CEMENT MASONS:

Cement Masons	16.005	3.05
Concrete Troweling Machine; Sawing and Scoring Machine;		
Curb and Gutter Machine	16.24	3.05

PLUM0469B 07/01/1994

	Rates	Fringes
APACHE, COCONINO, LA PAZ, MARICOPA, MOHAVE, NAVAJO, YAVAPAI AND YUMA COUNTIES:		

PLUMBERS AND PIPEFITTERS:

ZONE 1:		
Commercial	18.85	5.76
Industrial	21.85	5.76
ZONE 2:		
Commercial	21.85	5.76
Industrial	24.85	5.76

ZONE DEFINITIONS FOR PLUMBERS AND PIPEFITTERS

ZONE 1: Area within a 20 mile radius of the center of the following towns: Flagstaff, Holbrook, Kingman, Lake Havasu City, Prescott, Show Low, Springerville, St. John's, Winslow, and Yuma; and area within 40 miles of the center of Phoenix

ZONE 2: Area outside a 20 mile radius of the center of Flagstaff, Holbrook, Kingman, Lake Havasu City, Prescott, Show Low, Springerville, St. John's, Winslow, and Yuma; and area outside a 40 mile radius of Phoenix

PLUM0741B 07/01/1992

	Rates	Fringes
COCHISE, GILA, GRAHAM, GREENLEE, PIMA, PINAL, AND SANTA CRUZ		
PLUMBERS & PIPEFITTERS	18.50	4.70

SUAZ3001A 01/22/1993

	Rates	Fringes
LANDSCAPE SPRINKLER INSTALLER	8.27	.24
LANDSCAPE LABORER	4.91	.24

TEAM0104B 06/01/1990

	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	7.62	2.87
GROUP 2	10.82	2.87
GROUP 3	15.26	2.87

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Pickup Driver, Station Wagon Driver, Man Haul Driver, 4 axle or less Dump or Flatrack Driver, Self-propelled street sweeper, tireman, Water Truck under 3900 gallons, Transit Mix Driver, 8 cy or less Mixer capacity, Ambulance Driver.

GROUP 2: Transit Mix Driver, over 8 cy, Rock Truck Driver-under 35 tons, Oil Tanker or Spreader Truck Driver and/or Bottman, Retortman or Leverman,, 5 axle Dump or Flatrack Driver, Water Truck Driver 3900 gal and over, Off-Highway Equipment Driver including but not limited to: 2 or 4 Wheel Power Unit, i.e., Cat DW Series, Euclid, Int'l and Similar type Equipment, Transporting Material when top loaded or by External Means, Including Pulling Water tanks, Fuel Tanks or other applications under Teamster Classification

GROUP 3: Field Equipment Serviceman or Fuel Truck Driver, Heavy Duty Mechanic/Welder, Transport Driver (Heavy Equipment), Off Highway Rock Truck-35 tons and over

Combination men shall be paid thirty cents (\$.30) over the highest rated work.

WELDERS - Receive rate prescribed for craft performing operation
to which welding is incidental.

Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates
listed under that identifier do not reflect collectively
bargained wage and fringe benefit rates. Other designations
indicate unions whose rates have been determined to be
prevailing.

END OF GENERAL DECISION

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT FCD 94-37
DYSART DRAIN IMPROVEMENTS PROJECT
BRIDGES AND UTILITY CROSSINGS**

SPECIAL PROVISIONS

SECTION 201 - CLEARING AND GRUBBING

Clearing and grubbing shall conform to Section 201 of the MAG Uniform Standard Specifications.

Subsection 201.5 - Payment

No payment will be made for clearing and grubbing as such; the cost thereof shall be included in the bid price for the construction or installation of the items to which said clearing and grubbing are incidental or appurtenant.

SECTION 202 - MOBILIZATION

Subsection 202.1 - Description

The work under this section shall consist of preparatory work and operations, including but not limited to, the movement of personnel, equipment, supplies and incidentals to the project site; the establishment of all offices, buildings and other facilities necessary for work on the project, and for all other work and operations that must be performed and costs incurred prior to beginning work on various items on the project site.

Field Office:

This work shall consist of providing and maintaining a furnished Field Office for the exclusive use of and occupancy by the Engineer and the Engineer's staff.

The office shall be a building or mobile trailer erected at a location convenient to the project. The office may be in the same building or mobile trailer as office space of the Contractor, provided that such office is separated from the area used by the Contractor by a wall or door with an adequate locking device and has at least two doors to the outside.

The Contractor may furnish equivalent facilities in an existing building provided such facilities and building are located to provide convenient service.

The field office shall be an approved and weatherproof building or mobile trailer providing a minimum of 500 square feet of clear floor space, not including the toilet area. The structure shall have a minimum ceiling height of seven (7) feet and shall be provided with weatherproof doors equipped with adequate locking devices.

Windows shall also be provided with adequate locking devices. The Contractor shall also provide the following:

- a. Lighting - Electric light, non-glare type luminaries to provide a minimum illumination level at desk height level.
- b. Heating & Cooling - Adequate electrically powered equipment to maintain an ambient air temperature of 72 degrees F plus or minus 8 degrees.
- c. Telephone - A telephone with an outside line for the exclusive use of the Engineer. The Contractor will pay for the cost of the line and local calling charges. Long distance charges made on this line will be paid for by the District.

- d. Toilet - A commode and wash sink in a separately enclosed room within the building or mobile trailer, properly ventilated and complying with applicable sanitary codes. Contractor shall provide water service.
- e. Maintenance - The contractor shall maintain all facilities and furnished equipment in good working condition.
- f. Fire Extinguisher - Two non-toxic, dry chemical, fire extinguishers meeting Underwriters Laboratories, Inc. approval for Class A, Class B, and Class C fires with a minimum rating of 2A: 20B: 10C.
- g. Electricity - Contractor shall provide electric power and pay for all electric services.
- h. Furnishings - Four office desks with drawers, four office chairs (padded, swivel type), one drafting table (adjustable height 3 feet by 6 feet), one conference table, four folding chairs, and one draftsman's stool.

The office shall be fully equipped and made available for the Engineer's use and occupancy prior to the start of any Contract work and not later than 10 days after the date of notice to proceed. The Engineer will notify the Contractor, in writing, of the acceptability of the Field Office provided. The Contractor shall maintain the field office in operating condition until seven (7) days after acceptance of the Contract work.

All facilities shall be maintained in good operating condition and appearance by the Contractor for the designated period, after which all portable buildings or trailers, fencing, surfacing, and utilities shall be removed from the site, the areas cleaned and seeded if required and left in a neat and acceptable condition.

Subsection 202.1 - Payment

Payment shall be made on the basis of the lump sum price bid and shall be full compensation for supplying and furnishing all materials, facilities, and services and performing all work involved as specified herein. The lump sum price bid shall not exceed three (3%) percent of the total project bid amount exclusive of mobilization. No additional payment will be made for occupancy and services during periods of contract extension of time due to engineering changes.

ITEM 202 - MOBILIZATION

SECTION 205 - ROADWAY EXCAVATION

Roadway excavation shall conform to Section 205 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 205.2 - Unsuitable Material

Add the following:

In bituminous paved areas, the moisture content of the subgrade and backfill should be maintained at 2 percent below optimum or lower during site grading to reduce the potential for pumping. If in-situ moisture contents are higher than this at the time of construction, pumping may occur, and special precautions should be taken to prevent disturbance, equipment mobility problems, and loss of shear strength in the subgrade. These precautions may include spreading and drying of wet soils, removal and replacement of wet soils, construction of temporary gravel roads at channelized traffic areas, and/or use of lighter compaction equipment.

Subsection 205.8 - Payment

No separate payment will be made for roadway excavation. The cost thereof shall be considered as being included in the price bid for construction or installation of the items to which such roadway excavation is incidental or appurtenant.

SECTION 206 - STRUCTURE EXCAVATION AND BACKFILL

Structure excavation and backfill shall conform to Section 206 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 206.2 - Foundation Material Treatment

Add the following:

Foundation bearing surfaces shall be free of debris and water softened materials prior to placing concrete and reinforcing steel. All foundation excavations shall be inspected by the Engineer prior to placing the foundation material. Any loose or disturbed zones should be removed and replaced with compacted fill or lean concrete.

The Geotechnical Report for the project is available from the District and may be used by the Contractor in developing plans for temporary construction slopes.

Subsection 206.4 - Structural Backfill

Add the following:

Compaction of structural backfill soils against embedded footings or walls shall be accomplished to a minimum 95 percent of the maximum ASTM D698 density.

Compaction against wing walls or channel lining within 3 feet of the walls or lining shall be accomplished using manual or remote control compaction equipment only.

Backfill behind subsurface walls designed to support utilities, pavement, channels, or other facilities should be compacted to density criteria from Section 211. Backfills should consist of granular soils, free of vegetation, debris, organic contaminants, and fragments larger than 6 inches in size, which exhibit low expansive potentials. On-site soils may be used in structural fills or backfills more than 3 feet below the final grade. High plasticity on-site soils may not be used in structural fills or backfills.

Backfill operations shall be accomplished by mechanical methods. Water settling or jetting shall not be permitted.

Imported soil used for fills under pavements, or channels should be granular soils conforming to the following requirements:

Maximum Particle size:	6 inches*
Maximum percent expansion:	1.5**

* Maximum size may be reduced at the Engineer's direction to satisfy trenching and landscape requirements, etc.

** Performed on sample remolded to 95 percent of the maximum ASTM D698 density and 2 percent below optimum moisture under a 100 psf surcharge pressure.

No payment will be made for structural excavation as such; the cost thereof shall be included in the bid price for the construction or installation of the items for which said excavation is incidental or appurtenant.

Subsection 206.5 - Payment

Payment will be made for structural backfill on the basis of the price bid per cubic yard in place.

ITEM 206 - STRUCTURAL BACKFILL

SECTION 211 - FILL CONSTRUCTION

Fill construction shall conform to Section 211 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 211.3 - Compacting

Add the following:

Compaction of exposed site soil, backfill, fill, and base course materials shall be accomplished to the following density criteria:

<u>Material</u>	<u>Minimum Percent Compaction (ASTM D698)</u>
Subgrade Soil:	
Below structural elements	95
Below Pavement	95
Backfill:	
Below channel lining	95
Restoration of channel bank	95
Aggregate base course:	
Below pavement	100

Compaction of on site soils in scarified zones or in new fills more than 3 feet below final grade should be accomplished at a moisture content between optimum and optimum plus 3 percent. Compaction of granular imported soil below the channel lining should be accomplished at a moisture content between optimum minus 3 percent and optimum plus 3 percent. Compaction of exposed soil and fill material within 3 feet of asphalt pavement should be accomplished at a moisture content 2 percent below optimum or lower.

Where the existing channel bank has been removed for construction purposes as shown on the plans, the channel bank shall be restored to those existing lines and grades. At and under the bridge girders, the channel bank will be restored up to within 2 inches of the bottom of the bridge girders. No separate payment will be made for the restoration of the channel bank, but shall be considered incidental to related construction activities for which payment is provided.

On site undisturbed soils or compacted soils subsequently disturbed or removed by construction operations should be replaced by materials compacted as specified above.

Subsection 211.6 - Payment

No payment will be made for fill construction, the cost thereof shall be included in the price bid for the construction or installation of the items to which such fill construction is incidental or appurtenant.

SECTION 301 - SUBGRADE PREPARATION

Subgrade preparation shall conform to Section 301 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 301.8 - Payment

Payment for subgrade preparation shall be made on the basis of price bid per square yard.

ITEM 301 - SUBGRADE PREPARATION

SECTION 310 - UNTREATED BASE

Untreated base shall conform to Section 310 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 310.4 - Payment

Payment for untreated base shall be made on the basis of the price bid per ton.

ITEM 310 - AGGREGATE BASE COURSE

SECTION 315 - BITUMINOUS PRIME COAT

Roadway excavation shall conform to Section 315 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 315.2 Materials

Add the following:

The bituminous material shall be Grade MC-70 or MC-250 liquid asphalt as determined by the Engineer. Prime coat shall be applied to the total width of the aggregate base material at the rate of 0.40 gallons per square yard unless otherwise specified by the Engineer. Prime coat shall be allowed to penetrate for not less than forty-eight (48) hours prior to beginning asphalt concrete paving.

Subsection 315.5 Payment

Payment for bituminous prime coat shall be made on the basis of price bid per ton.

ITEM 315 - BITUMINOUS PRIME COAT

SECTION 321 - ASPHALT CONCRETE PAVEMENT

Asphalt concrete pavement shall conform to Section 321 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 321.2 - Materials and Manufacture

Add the following:

The job mix formula for the Asphalt Concrete D-1/2 mix shall be modified in accordance with MCDOT as follows:

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>	<u>TOLERANCE</u>
1"	100	----
3/4"	97-100	----
1/2"	98	+/- 7%
3/8"	78	+/- 7%
#4	58	+/- 7%
#8	45	+/- 5%
#30	25	+/- 5%
#200	5	+/- 2%

Percent Asphalt Cement: 4.9 +/- 0.4%
 Asphalt Cement: AR-4000 or AC-20
 Temperature: Mixing and placing 280 F +/- 25 F

Type II Portland Cement or equal will be added by dry weight of the mineral aggregate, 1.5%.

The gradation above shall supercede that in MAG Section 710.3.

Asphalt Concrete C-3/4:

Mineral Filler	Portland Cement (1-1/2% by weight)
Asphalt Cement	AC-20

In addition to pugmill type mixing plants, drum dryer mixers will be allowed in accordance with Standard Specification 710.9. The moisture content of the bituminous mixture immediately behind the paver shall not exceed three (3%) percent.

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

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

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

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

The Contractor will be required to furnish to the Engineer certified weight tickets covering all of the asphalt concrete placed on the project.

Where the compacted thickness of the asphaltic pavement course is designated as three (3) inches or less, the asphalt may be placed in one lift.

Subsection 321.9 - Payment

Payment for asphaltic concrete shall be made on the basis of price bid per ton.

ITEM 321-1 - ASPHALTIC CONCRETE PAVEMENT (D-1/2)

ITEM 321-2 - ASPHALTIC CONCRETE PAVEMENT (C-3/4)

SECTION 329 - TACK COAT

Tack coat shall conform to Section 329 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 329.7 - Payment

Payment for the emulsified bituminous tack coat will be by the ton, diluted.

ITEM 329 - BITUMINOUS TACK COAT

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

Concrete curb, gutter, sidewalk, and driveways shall conform to Section 340 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 340.6 - Payment

Payment for concrete curb and gutter shall be made on the basis of price bid per lineal foot.

ITEM 340-1 - CONCRETE CURB AND GUTTER

Payment for concrete driveway entrance shall be made on the basis of price bid per square foot.

ITEM 340-2 - CONCRETE DRIVEWAY ENTRANCE

SECTION 345 - ADJUSTING FRAMES, COVERS, VALVE BOXES AND WATER METER BOXES

Adjusting frames and covers shall conform to Section 345 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 345.5 - Payment

Payment for adjusting frames, covers, valve boxes and water meter boxes shall be made on the basis of price bid per each.

ITEM 345 - ADJUST FRAMES, COVERS, AND BOXES

SECTION 350 - REMOVAL OF EXISTING IMPROVEMENTS

Removal of existing improvements shall conform to Section 350 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 350.1 - Description

Add the following:

Removal of existing improvements shall conform to Section 350 of the MAG Uniform Standard Specifications except as modified herein. The work includes the removal and disposal of existing structures, concrete channel lining, the existing bridges at Dysart Road, El Mirage Road, and Morton Salt, asphalt concrete pavement and associated traffic lane delineators, striping, and barricades, 24" irrigation carrier pipes, and any other obstacles to construction. The work also includes removal, storage, and reinstallation and/or relocation of miscellaneous fence and gates along the Luke School and Amerigas properties and other locations as required, and other items as necessary for construction and as called out on the plans. Holes, cavities and trenches resulting from the removal of structures shall be backfilled in accordance with Sections 206 and 211.

The disposal of all waste material removed under this item shall be the responsibility of the Contractor. The disposal site shall be approved by the Engineer.

If a Maricopa County landfill is selected for disposition of waste materials and/or debris, a Maricopa County Landfill Use Permit will be required. Application for permit can be made at the Maricopa County Landfill Office, located at 3325 West Durango Street, Phoenix, Arizona 85009 (telephone (602) 269-2661). Charges will be levied on a volume basis for each load delivered to the landfill in accordance with the current fee schedule.

The project construction limits shall be cleared of all trash and construction debris. Such material as collected shall be disposed of at an approved landfill site and shall be subject to landfill fees so assessed, which will be included in the unit price bid for this item.

Weigh tickets from all landfill disposal must be furnished to the Engineer.

Subsection 350.2 - Construction Methods

Add the following:

No projection of any kind will be allowed above the finished grade in the channel bed as a result of the removal of the existing bridges and concrete slab. The Contractor shall safeguard against contaminating water in the channel during construction.

Subsection 350.4 - Payment

Payment for removal and disposal of the existing structures shall be made on the basis of the lump sum price bid, and shall include full payment for removal and disposal of the Dysart Road, El Mirage Road, and Morton Salt bridges, channel lining, and other structures to be removed as shown on the plans or encountered in the field.

ITEM 350-1 - REMOVE STRUCTURES

Payment for removal and disposal of existing AC pavement, delineators, striping, and barricades shall be made on the basis of the lump sum price bid.

ITEM 350-2 - REMOVE AC PAVEMENT

Payment for all miscellaneous removals required for construction of the project shall be made on the basis of the lump sum price bid, and shall include as a minimum, removal and disposal of pipe culverts, concrete channel lining at bridges, curb and gutter, miscellaneous utilities and remnants abandoned within the area of construction, removal and reinstallation and/or relocation of existing fencing and gates and other items as required.

ITEM 350-3 - MISCELLANEOUS REMOVALS

SECTION 401 - TRAFFIC CONTROL

Traffic control shall conform to Section 401 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 401.1 - Description

Add the following:

All traffic control shall conform to the Construction Specifications for this project and the request of the Engineer. Part IV of the "Manual On Uniform Traffic Control Devices For Streets And Highways" (U.S. Department of Transportation, Federal Highway Division) and all revisions thereto, the Traffic Manual from the City of Phoenix and all revisions thereto shall serve as a guideline in Contractor's application of traffic control.

It shall be Contractor's responsibility to provide, erect and maintain and remove after completion of the work all necessary signs, barricades, barriers, berms, lights, high level warning devices, delineators, and any other required devices, uniformed officers, and flagman, necessary to properly mark and control the construction area for the safe and efficient movement of traffic. Temporary traffic control devices shall be installed prior to the start of any work. It shall be Contractor's responsibility to construct the required by pass lanes in order to make the road available to traffic. The County's (MCDOT) approval of Contractor's traffic control method shall not relieve Contractor of its responsibility to protect the work, Contractor's personnel, or the general public.

Contractor shall provide and maintain all necessary signs, barricades and centerline vertical panels for five (5) working days beyond the concrete cure time or acceptance of the project by the Engineer, whichever period is greater.

Subsection 401.5 General Traffic regulations

Add the following:

A road closure for the convenience of the Contractor is not authorized, except as specified in these Special Provisions, without the prior approval of the County. Traffic restrictions are not permitted on major or collector streets during peak traffic hours of 6:00 a.m. to 8:30 a.m. and 4:00 to 7:00 p.m. weekdays.

At signalized intersections during peak hours, four lanes shall be open on roads with five or more lanes, and three lanes shall be open on roads with four or less lanes with the center lane a left turn lane. During off-peak traffic hours, the minimum number of lanes shall be two lanes (one in each direction) on streets with four lanes or less, and three lanes on streets with five or more lanes.

Channelization, including "KEEP RIGHT" signs, shall be provided whenever traffic is moved across the street center line, the existing center line is removed or opposing traffic is maintained in other than the normal traffic lanes.

All temporary traffic control devices shall be ballasted with sandbags or other approved ballast.

For construction or trenching diversions that require movement of traffic from the normal through lanes, temporary bypasses shall be utilized only during daylight hours and the normal traffic shall be restored during nighttime hours. Traffic plates and temporary pavement shall be used to restore traffic lanes. Exceptions may be authorized by the Engineer under unusual conditions.

The "SPEED LIMIT 25" sign shall be used where traffic is maintained on unpaved shoulders, on temporary detour roads, on road sections where the existing pavement has been removed, or on traffic lanes that are severely restricted.

Access to all adjacent properties shall be maintained whenever possible. When access cannot be maintained, Contractor shall notify the adjacent residents at least 48 hours in advance of the access closure. In no case shall the access be closed for more than four hours. Access for fire stations, hospitals, sheriff stations and schools shall be maintained at all times.

In order to keep nighttime noise to acceptable levels, no work shall be conducted during the hours of 7:00 P.M. to 6:00 A.M. Exceptions may be granted by the Engineer. Special noise abatement procedures shall be implemented by Contractor for nighttime work.

Contractor shall maintain or relocate all existing signal indications, warning signs, STOP, YIELD, and street name signs erect, clean and in full view of the intended traffic at all times. Portable signs should be used to supplement blocked or removed signs. Contractor shall reset all disturbed signs to permanent locations when construction is completed. Unnecessary or surplus signs shall be removed and delivered to the MCDOT warehouse at 2222 South 27th Avenue. Contractor is responsible for the cost of replacing lost or damaged traffic warning signs.

If existing signal equipment is damaged as a result of Contractor's construction activity, Contractor shall notify the Traffic Engineering Division of the County at (602) 506-8660, in order to facilitate the prompt restoration of the traffic signal operation. All costs associated with the repair of damaged traffic signals, caused by Contractor's construction activity, shall be borne by Contractor.

Contractor shall erect portable jersey barriers when deemed necessary by the Engineer. The approach ends of all portable barriers shall be flared a minimum of ten feet away from the travel lane in order to lessen the severity of an accidental impact.

Rope, flagging, fencing and woven plastic tape may be used between barricades and channeling devices to provide additional safety.

Contractor shall install deceleration sand berms in the blocked traffic path or at other hazardous sites, if required by the Engineer, in order to prevent vehicles from entering the construction and/or hazard area. The deceleration sand berms shall be constructed of washed sand and shall be approximately five feet (5') high.

Subsection 401.5.1 - Special Traffic Regulations

Add the following:

A road closure of El Mirage Road and Dysart Road for a period not to exceed one hundred and twenty (120) calendar days each is authorized. Concurrent closures of El Mirage Road and Dysart Road shall not be permitted. Two (2) weeks prior to closure, the Contractor shall place advisory signs containing information on the closure including date and the expected duration of closure. These signs (one for each direction of traffic) shall be placed at the bridge construction site and at the first north and south major intersection from the construction site.

Traffic shall be maintained on pavement at all times utilizing twelve (12) foot wide lanes.

All advance road closed warning signs shall use distance advisory criteria and be mounted on channels driven into the ground. All conflicting speed limit signs shall be covered.

The final signing and striping of the road shall be done by MCDOT, and not be commenced or installed until pavement has been accepted and all shoulders have been dressed to cover the edge of pavement drop off with the road segment signed with appropriate speed limits signs. Contractor shall give MCDOT a minimum of two (2) weeks notice as to when the signing and striping can be done.

Contractor shall provide and maintain all necessary signs, barricades and centerline vertical panels until the road is striped.

Construction shall not commence or proceed without an approved Traffic Control Plan. At the pre-construction conference, the Contractor shall submit for review his plan for the sequence of construction and the planned road closure signing for construction and the traffic flow when the road is opened. A Traffic Control Plan (TCP) covering the signing and staging shall be submitted and approved prior to the start of each stage of construction. The Traffic Control Plans shall address all construction staging and special provisions requirements.

At the time of the Pre-Construction conference, the Contractor shall designate an employee, other than the Project Superintendent, who is well qualified and experienced in construction traffic control and safety, to be available on the project site during all periods of construction to set up, maintain and coordinate safe barricading whenever construction restricts traffic. This individual shall be authorized to receive and fulfill instructions from the Engineer and shall supervise and direct the work. Instructions and information given by the Engineer to this individual shall be considered as having been given to the Contractor.

Sand berms shall be required for bridge construction. The Contractor shall place sand berms across all lanes approaching the bridge construction site. Sand berms shall not be disturbed during construction and the Contractor shall provide access for his work around the berms.

Subsection 401.7 - Payment

Payment for traffic control, including all mobilization, placing, storing, removal and maintenance incidental to the approved traffic control plan, shall be made on the basis of the lump sum price bid.

ITEM 401 - TRAFFIC CONTROL

SECTION 405 - MONUMENTS

Monuments shall conform to Section 405 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 405.5 - Payment

Payment for survey monuments shall be made on the basis of the price bid per each.

ITEM 405 - SURVEY MONUMENTS (MAG 120-2, TYPE E)

SECTION 420 - CHAIN LINK FENCES

Chain link fence shall conform to Section 420 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 420.1 - Description

The work under this section consists of constructing 4 foot chain link fence on the bridges at Dysart Road and El Mirage Road.

Subsection 420.5 - Payments

Payment for installation of new 4 foot chain link fence shall be made on the basis of price bid per linear foot.

ITEM 420 - CHAIN LINK FENCE (4 FOOT)

SECTION 502 - DRILLED SHAFTS

Drilled shafts shall conform to Section 502 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 502.1 - Description

Add the following:

The work under this section shall include furnishing all materials and constructing reinforced concrete shafts formed within a drilled excavation. Each drilled shaft foundation shall consist of a shaft section and shall be constructed in accordance with the details and dimensions shown on the project plans and the requirements of these specifications.

For construction of the Dysart Road and Morton Salt bridges, should the Contractor determine the need for a shoofly of the overhead APS power lines (see Subsection 105.6), the cost of the shoofly will be paid from the shoofly bid items.

The Contractor is responsible to contact APS to obtain the estimated cost of shoofly construction and shall include said cost in the bid proposal if the shoofly's are deemed necessary. If the Contractor does not require the shoofly due to construction methods to be applied, a bid of zero shall be entered for the shoofly items.

Subsection 502.3 - Excavation

Add the following:

The Contractor shall perform all excavation required for the shafts through whatever substances are encountered, to the dimensions and elevations shown on the project plans or required by the site conditions. The maximum deviation from plumb shall be not more than one percent, and the maximum permissible variation of the center axis at the top shall be three inches from its project plan location. Blasting methods shall not be used.

Any excavation beyond the dimensions shown on the project plans shall be filled with concrete at the Contractor's expense.

The project plans are indicative of anticipated subsurface conditions and depths where satisfactory bearing material may be encountered. The project plans may be used as a guide for the Contractor to become familiar with the site subsurface condition but shall not be construed as a warranty of the subsurface condition.

When the drilling operation reaches a point where caving conditions are encountered, no further drilling will be allowed until a construction method is employed that will prevent excessive caving and which is acceptable to the Engineer. The contractor shall submit a plan for preventing caving to the engineer for approval prior to starting drilling operations.

If the Engineer determines that the amount of caving is within acceptable limits and the Contractor elects to drill under the same methods and procedures, the excavation outside the plan dimensions shall be filled with concrete at the Contractors expense, regardless of the extent.

If the use of drilling slurry is to be employed the Contractor shall use a method of construction which will allow completion of the drilled shaft in a continuous manner without any mixing of concrete and drilling slurry.

After the completion of the drilled shaft excavation and prior to the placement of the reinforcing steel cage and concrete, all slough and other loose material shall be machine cleaned from the shaft. A flight auger or other equipment, approved by the Engineer, shall be used for cleaning dry excavations where slurry or ground water is not present. Where slurry or ground water is present, the excavation shall be cleaned with a bucket auger or similar type of equipment, as approved by the Engineer.

Open excavations that are deemed by the Engineer to be potentially hazardous, shall be covered at the end of each shift in a manner approved by the Engineer.

502.3.1 - Inspection

Add the following:

Drilled shaft excavations will be inspected by the Engineer. The Contractor shall provide suitable equipment and facilities so that the Engineer may inspect completed excavations and check the shafts for alignment and dimensions.

Reinforcing steel and concrete shall not be placed in the drilled shaft excavation until the Engineer has made his inspection and given his approval.

Subsection 502.4 - Measurement

Add the following:

Drilled shafts will be measured by the linear foot from the actual bottom of the shaft, to the elevation of the top of the shaft as indicated on the project plans.

Subsection 502.5 - Payment

The accepted quantities of drilled shaft foundations, measured as provided above, will be paid for at the unit price bid per lineal foot, and shall be full payment for all labor, material, equipment, and appurtenances necessary for the drilling of the holes for the cast-in-place concrete shafts. Concrete and reinforcing steel will be paid for in Section 505.

ITEM 502-1 - DRILLED SHAFTS (30 INCH)

ITEM 502-2 - DRILLED SHAFTS (24 INCH)

The cost for each shoofly at the Dysart Road bridge and the Morton Salt bridge, will be paid at the lump sum price bid.

ITEM 502-3 - DYSART ROAD SHOOFLY

ITEM 502-4 - MORTON SALT SHOOFLY

SECTION 505 - CONCRETE STRUCTURES

Concrete structures shall conform to Section 505 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 505.1 - Description

Add the following:

The work under this section shall consist of furnishing all labor, materials and equipment for the construction of all cast-in-place and other concrete, including the channel lining replacement, bridge structures and approach slabs, headwalls, and wingwalls in accordance with the plans and Section 505 of the MAG Standard Specifications, except as modified herein.

Concrete shall conform to the requirements of Section 725 of the MAG Standard Specifications, and mix designs shall additionally meet the requirements of Chapter 5, Section 5.3 of ACI STANDARD 318-89. The Contractor shall submit mix designs and certifications of conformance with the above requirements for the written approval of the Engineer.

Class "AA" Concrete, $f'c = 4,000$ psi, shall be used for the Dysart Road, El Mirage Road, and Morton Salt bridge superstructures, except barriers and precast girders.

Class "A" Concrete, $f'c = 3,000$ psi, shall be used for the Dysart Road, El Mirage Road, and Morton Salt bridge abutments and piers, drilled shafts, barriers, and approach slabs, all concrete structures, including the channel lining replacement.

Class "B" Concrete, $f'c = 2,500$ psi, shall be used for curbs and gutters.

The use of Class F fly ash will be permitted in all concrete mixes, subject to approval of mix design by Engineer.

An air entraining admixture shall be added to concrete in the Morton Salt bridge as specified on the plans and Section 725.6.

Transit Concrete mixes used on the project must carry current certification from ADOT or Arizona Rock Products Association.

The reinforcing steel shall conform to Section 727 of the MAG Standard Specifications.

Superstructure reinforcing steel in the Morton Salt bridge, except in the precast girders, shall be epoxy coated per Section 727.5, unless noted otherwise.

Tempered hardboard shall conform to Federal Specification LLL-B-810, Type II, smooth one side, plain. Hardboard shall be 1/8-inch minimum thickness, unless shown or specified otherwise.

Expanded polystyrene shall be commercially available polystyrene board. Expanded polystyrene shall have a flexural strength of 35 pounds per square inch minimum determined in accordance with ASTM Designation C203, and a compressive yield strength of between 16 and 40 pounds per square inch, at 5 percent compression. When shown on the plans, surfaces of expanded polystyrene shall be faced with hardboard.

All boards shall be held in place by nails, waterproof adhesive, or other means approved by the Engineer.

Subsection 505.5 - Placing Reinforcement

Add the following:

The reinforcing steel cage for the drilled shaft, consisting of longitudinal bars and spiral hooping or lateral ties shall be completely assembled and placed into the shaft as a unit. Alternatively, when conflicts with the APS power lines are encountered, the Contractor may install the cage in sections as specified in the bridge plans (applicable at Dysart Road bridge only). The reinforcing steel unit shall not be placed until immediately before concreting operations are to be started and shall be placed in accordance with the details shown on the project plans.

The drilled shaft reinforcing cage shall be adequately supported and anchored to prevent movement from the required location during and for four hours after completion of concrete placement. Spacers shall be at sufficient intervals along the shaft to insure concentric spacing for the entire length of shaft. The type of spacer used shall be approved by the Engineer.

If the drilled shaft is lengthened and the project plans indicate full depth reinforcement, the bars in the lower portion of the shaft shall be extended accordingly, to the bottom of the hole. These bars may be lap spliced or spliced by butt welding or other connecting procedures approved by the Engineer and in accordance with the requirements of Section 727.

Subsection 505.6 - Placing Concrete

Add the following:

Where concrete is placed in drilled shaft excavations containing bentonite slurry or water, the cement content of the concrete shall be between 658 and 752 pounds per cubic yard and the size of the coarse aggregate shall not exceed one inch.

Concrete shall be placed as soon as possible after the completion of the drilled shaft excavation and placement of the reinforcing steel cage. Concrete shall be placed in accordance with the requirements of Section 505 and as specified herein. Unless otherwise specified in the project documents, or as otherwise directed by the Engineer, the slump shall be 8 inches plus or minus one inch.

Prior to concrete placement, the Contractor shall make all necessary arrangements to assure the uninterrupted delivery of concrete so that all drilled shaft foundations will be constructed without cold joints.

For concrete placement in dry excavations for the drilled shafts, concrete shall be placed through suitable tube or tremie, or by pumping, to prevent segregation of materials.

Concrete vibration for the full height of the drilled shaft is not necessary to achieve proper consolidation of the concrete. However, all shafts shall be vibrated in at least the top ten feet.

505.6.1 - Joints

Add the following:

Joints in concrete bridge railing shall be sawcut within 24 hours of removal of forms.

505.6.3 - Vertical Restrainers

Description: The Contractor shall furnish and install restrainer units consisting of cables and assemblies and associated materials or components in accordance with the Standard Specifications.

Components required for each restrainer unit type will be detailed on the project plans and shall include various combinations of the following: cables, clips, #11 rebar, duct type, expanded polystyrene, hardboard and incidentals.

Materials: Cables shall be 3/4-inch diameter preformed, 6 x 19, wire strand core or independent wire rope core (IWRC), galvanized ASTM A603 Class A coating, right regular lay, manufactured of improved plow steel with a minimum breaking strength of 21 tons. Two certified copies of mill test reports of each manufactured lengths of cable used shall be furnished to the Engineer.

Free ends of cable restrainer units shall be securely wrapped at each end to prevent separation.

The cable assemblies shall be shipped as a complete unit.

One test loop assembly, galvanized, accompanied only with cable clips attached as shown in the details on the plans shall be furnished to the Engineer for testing. The test loop assembly shall be not less than 2'-3" or more than 2'-9" long when pulled taut.

Construction requirements: Restrainers shall be installed as indicated on the project plans.

The Contractor shall provide means of holding the cable assemblies in their planned positions.

The Contractor shall be responsible for determining the required length of the cable assemblies.

The existing channel lining may be removed and replaced only to the extent necessary for removal of the existing bridge structures, and for the construction of the new bridges and utility crossings, as shown on the plans. Approval of the Engineer is required prior to the removal of any existing channel lining. Only that portion of the channel side slope lining required for construction access, and no closer to the bottom of the channel than four feet (4') shall be removed. No bottom of channel lining shall be removed.

Subsection 505.8 - Curing

Add the following:

All concrete in bridge decks, approach slabs, top and bottom slabs of box culverts shall be water cured, utilizing the wet burlap method, unless otherwise permitted by the Engineer, and shall be kept continuously wet for 10 days.

No vehicular loads will be permitted on the bridges and approach slabs, and box culvert structures before the period of twenty-one (21) days from the date of the last pour of concrete unless approval is obtained in writing from the Engineer. In no case shall traffic be allowed on the structure until the specified concrete strength has been attained. The Contractor shall take special precautions to keep the area properly barricaded, lighted, and marked to prevent automotive traffic from crossing the new bridges prior to the Engineer's approval.

Subsection 505.9 - Finishing Concrete

Add the following:

The use of wood trowels will not be permitted in any finishing operations for concrete slabs.

Subsection 505.10 - Payment

Payment for concrete shall be made at the unit price bid per cubic yard.

ITEM 505-1 - CLASS "AA" CONCRETE

ITEM 505-2 - CLASS "AA" CONCRETE (WITH ADMIXTURE)

ITEM 505-3 - CLASS "A" CONCRETE

ITEM 505-4 - CLASS "A" CONCRETE (WITH ADMIXTURE)

Payment for reinforcing steel shall be made at the unit price bid per pound.

ITEM 505-5 - REINFORCING STEEL

ITEM 505-6 - EPOXY COATED REINFORCING STEEL

Payment for vertical restrainers shall be made at the unit price bid per each.

ITEM 505-7 - VERTICAL RESTRAINERS

Payment for headwalls shall be made at the unit price bid per each including excavation and backfill of the headwalls.

ITEM 505-8 - HEADWALLS (MAG 501-1)

Payment for concrete channel lining replacement shall be made at the unit price bid per cubic yard and shall include full compensation for all labor, material, equipment, and appurtenances necessary for the construction of the channel lining in place including all concrete and reinforcing steel, and compacted backfill in accordance with the plans, details, and these specifications.

ITEM 505-9 - CONCRETE CHANNEL LINING

SECTION 506 - PRECAST PRESTRESSED CONCRETE MEMBERS

Precast prestressed concrete members shall conform to Section 506 of the MAG Uniform Standard Specifications except as modified herein.

506.1.1 - Elastomeric Bearings

Elastomeric Bearings shall be steel reinforced conforming to Section 18.2 of the AASHTO Standard Specifications for Highway Bridges, Division II - Construction, 1992 Edition and Interims to date and the following:

The thickness of each bearing pad shall be as shown on the project plans. The bearings shall consist of N-1 internal elastomer laminates and N steel laminates where N is equal to the bearing pad thickness shown on the project plans divided by 1/2 inch. The steel laminates shall be 14 gauge and shall be spaced every 1/2 inch, center-to-center. The top and bottom steel laminates shall have 1/4 inch of elastomer cover as measured from the center of the steel laminate to the pad surface.

The elastomer shall be Type CR, Grade 2, with a Durometer Hardness of 55 plus or minus 5.

Subsection 506.10 - Payment

Payment for prestressed concrete girders shall be made at the unit price bid per each, and shall include all elastomeric bearings.

ITEM 506 - PRESTRESSED CONCRETE GIRDERS

SECTION 515 - STEEL STRUCTURES

Steel structures shall conform to Section 515 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 515.1 - Description

Add the following:

Work in this section shall consist of furnishing all labor, materials, and equipment for the installation of 24 inch steel carrier pipes at Station 59+64 and Station 65+80 in accordance with the plans and specifications.

Pipe shall be ASTM Specification A53 Grade B Extra Strong.

Pipe sections shall be welded to form a continuous pipe length. Field welded joints shall conform to AWWA C206. Pipe shall be joined by using a 7/16" x 6" buttstrap with continuous 5/16" fillet welds on both sides.

Pipe welder will be certified.

Pipe and other exposed steel components between the drilled shaft pipe supports shall be painted in accordance with MAG Sections 515.5 and 530. The second coat and final coat for the pipe shall be applied after erection of the pipe on the supports. The paint shall be paint number 10 (aluminum) as specified in MAG Section 790.

The pipe segments from the drilled shaft pipe supports to the headwalls will be wrapped with a corrosion protection and UV resistant tape. The tape shall be Royston Laboratories, Inc. "CP TAN" tape, or approved equal, installed in accordance with the manufacturers recommendations.

Subsection 515.7 - Payment

Payment for steel carrier pipes shall be made at the unit price bid per lineal foot, and shall be full compensation for furnishing and installing the steel carrier pipe and all appurtenant fittings and hardware as specified, including welding, painting, tape wrap, testing, and all incidental costs not specifically covered in other items.

ITEM 515 - STEEL CARRIER PIPES

SECTION 520 - STEEL AND ALUMINUM HANDRAILS

Steel handrails shall conform to Section 520 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 520.1 - Description

This section applies to handrails on the Morton Salt Bridge.

Subsection 520.5 - Payment

Payment for handrails shall be made at the unit price bid per lineal foot.

ITEM 520 - HANDRAILS

SECTION 610 - WATER LINE CONSTRUCTION

Water line construction shall conform to Section 610 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 610.3 - Materials

Add the following:

Location	Dysart Road
Purpose	Reclaimed water line
Type	PVC Pressure Pipe (AWWA C905)
Diameter	16 inch
Pressure Rating	PR 165
Dimension Ratio	DR 25
Joints	Elastomeric-Gasket

Location	Dysart Road
Purpose	Residential irrigation line
Type	PVC Plastic Pipe (ASTM D2241)
Diameter	3 inch
Pressure Rating	160 psi
Dimension Ratio	SDR 26
Joints	Rubber ring bell and spigot (ASTM D3139)

Subsection 610.9 - Connecting to Existing Mains

Add the following:

The reclaimed water line at Dysart Road will be replaced in kind with similar PVC materials. An appropriate PVC connection will be required.

Subsection 610.18 - Payment

Payment for water line construction will be made at the unit price bid per lineal foot for each type and size of pipe, and will include all trenching, bedding, backfill, materials, and other items incidental to the installation of the water lines.

ITEM 610-1 - WATERLINE (3 INCH)

ITEM 610-2 - RECLAIMED WATER LINE (16 INCH)

SECTION 725 - PORTLAND CEMENT CONCRETE

Portland cement concrete shall conform to Section 725 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 725.2 - Portland Cement

Add the following:

Cement shall be portland cement, conforming to the requirements of ASTM C-150, Type II, unless noted otherwise on the plans or in the specifications.

Subsection 725.6 - Admixtures

Add the following:

When an air-entraining agent is authorized, the amount used will be limited to the extent that the amount of air by volume shall not be less than 4 percent nor more than 6 percent by volume. Air-entraining agents complying with AASHTO M-154 or ASTM C-260 will be permitted as long as strength requirements are met. Any admixture shall be measured accurately by mechanical means into each batch by equipment and in a method approved by the Engineer.

SECTION 727 - STEEL REINFORCEMENT

Steel reinforcement shall conform to Section 727 of the MAG Uniform Standard Specifications except as modified herein.

Subsection 727.5 - Epoxy Coated Reinforcement

The requirements of this subsection for epoxy-coated reinforcement are in addition to the previous requirements which apply to un-coated reinforcement.

Epoxy coated reinforcing shall conform with ASTM A-775 and shall have a fusion bonded epoxy coating with the epoxy applied to the preheated steel as a dry powder which melts and cures to a uniform coating thickness. Scotchkote 143 by 3M Company is an acceptable product. Equivalent products from other manufacturers may be used with the Engineer's approval.

All handling systems for coated bars shall have padded contact areas for the bars wherever possible. All bundling bands shall be padded and all bundles shall be lifted with a strong back, multiple supports or a platform bridge so as to prevent bar to bar abrasions from sags in the bars bundle. The bars or bundles shall not be dropped or dragged.

All hardware that will remain permanently in concrete using epoxy-coated reinforcement shall be made of or coated with a dielectric material. Such hardware includes reinforcement chairs, tie wires, screened rail supports, or any other item that would be a potential source of corrosion. The specific hardware that the Contractor proposes to use shall be approved by the Engineer.

The Contractor shall be required to field repair damaged areas of the coating, and to replace items exhibiting severely damaged coatings. The material used for field repair shall be that supplied by the coating applicator.

Field repair shall be required wherever the area of coating damage exceeds two percent of the surface area of the bar in a one foot length and the damage spot is larger than 1/4 inch by 1/4 inch.

Field repair will not be allowed on bars which have severely damaged coatings. A severely damaged coating is defined as a coating which has a total area greater than five percent of the surface area of the reinforcing bar. The Engineer shall be the sole determinator of the severity of damaged area for purposes of repair or replacement. A reinforcing bar having a coating determined by the Engineer to be severely damaged shall not be incorporated in the work and it shall be removed from the work site. All such bars shall be replaced in kind by the Contractor at no additional cost to the District.