



FY 2016 Pavement Rehabilitation Project

Project Specifications and Contract Documents

DESCRIPTION: The FY 2016 Pavement Rehabilitation Project generally consists of milling and asphalt pavement overlay and pavement resurfacing. The mill and overlay is on Gateway Boulevard, Gail Gardner Way, and Golden Hawk Drive. The resurfacing includes multi-layer and single layer coats of rubber chip seals, microsurfacing, and slurry seal coats. The streets and areas designated for resurfacing include Hassayampa Village Lane, Horizon Hills, and College Heights. The project includes the placement of a conventional asphalt chip seal coat on previously unpaved streets and alleys. The project includes the adjustment of utility covers to finish grade and the restoration of disturbed traffic striping.

SPONSOR: CITY OF PRESCOTT, ARIZONA

PROJECT NUMBER: 15-2157810 8930 90036

BID OPENING: July 2, 2015 2:00 PM
Prescott City Council Chambers
201 S. Cortez Street, Prescott, Arizona 86303

PREPARED BY: Public Works Department

June 2015

Table of Contents

SPECIAL NOTICE.....	6
NOTICE INVITING BIDS.....	7
INFORMATION FOR BIDDERS.....	8
BIDDING SCHEDULE.....	11
SUBCONTRACTORS LIST BID FORM.....	13
INSTRUCTIONS FOR PREPARING PROPOSAL.....	14
PROPOSAL.....	15
BIDDERS AFFIDAVIT.....	18
INSURANCE REQUIREMENTS.....	19
CONSTRUCTION CONTRACT.....	23
CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS.....	28
AND CERTIFICATION OF COMPLETION OF WARRANTIES.....	28
GENERAL CONDITIONS.....	29
COMMENCEMENT, PROSECUTION AND PROGRESS.....	30
PRECONSTRUCTION CONFERENCE.....	30
COMMENCEMENT.....	30
PUBLIC NOTICE.....	30
SUBCONTRACTORS.....	31
CONTRACTOR'S REPRESENTATIVE AND EMERGENCIES.....	31
CONTRACTOR AND SUBCONTRACTOR RECORDS.....	31
ADDENDA, REVISIONS AND SUPPLEMENTARY DRAWINGS.....	32
ERROR AND OMISSIONS.....	32
CHARACTER OF WORKMEN.....	32
SUSPENSION OF WORK.....	33
DELAYS AND EXTENSION OF TIME.....	33
PAYMENT FOR DELAY.....	34
TERMINATION FOR BREACH OF CONTRACT.....	34
METHODS AND EQUIPMENT.....	34
DATE OF ACTUAL COMPLETION.....	34
FINAL ACCEPTANCE.....	34
SAFETY, HEALTH AND SANITATION PROVISIONS.....	35
TRAFFIC CONTROL.....	35
WATER.....	35
PROTECTION OF WORK.....	36
CLEANUP AND DUST CONTROL.....	36
GUARANTEE OF WORK.....	36
CONTINGENCIES.....	36
NOTICE AND SERVICE THEREOF.....	36
PROJECT MEETINGS.....	36
CONSTRUCTION SCHEDULE.....	37
ACCIDENT PREVENTION.....	37
CONSTRUCTION FACILITIES.....	38

TEMPORARY FACILITIES	38
WARNING DEVICES AND BARRICADES	38
HAZARDS IN PUBLIC RIGHT-OF-WAY	38
HAZARDS IN PROTECTED AREAS	38
PROTECTION OF EXISTING ITEMS	38
PROJECT SECURITY	38
FIRE EXTINGUISHER	39
OFF-SITE ROADS.....	39
NOISE ABATEMENT	39
DRAINAGE CONTROL.....	39
PROJECT CLOSE-OUT	39
WASTE DISPOSAL, GRADING AND MATERIAL STORAGE.....	39
PROJECT RECORD DOCUMENTS.....	40
CONTROL OF WORK	41
ABBREVIATIONS.....	41
AUTHORITY AND DUTIES OF INSPECTOR	41
INSPECTION.....	41
AUTHORITY OF THE ENGINEER.....	41
PLANS	41
CONFORMITY WITH PLANS AND ALLOWABLE DEVIATIONS.....	42
COORDINATION AND INTERPRETATION OF PLANS AND SPECIFICATIONS	42
ORDER OF WORK.....	42
CONSTRUCTION STAKES, LINES AND GRADES	42
REMOVAL OF UNACCEPTABLE AND/OR UNAUTHORIZED WORK.....	42
MAINTENANCE DURING CONSTRUCTION	43
COOPERATION BETWEEN CONTRACTORS	43
COORDINATION OF WORK.....	43
LINES AND GRADES.....	43
MATERIALS AND WORKMANSHIP	43
GENERAL	43
SUBSTITUTION OF MATERIAL OR EQUIPMENT	44
FABRICATED MATERIALS AND SHOP DRAWINGS	44
MATERIALS FURNISHED BY THE CITY	44
STORAGE AND HANDLING OF MATERIALS	44
REJECTED MATERIALS	44
UTILITIES	44
DRIVEWAYS AND WALKS.....	45
ROADS AND FENCES.....	45
TREES AND SHRUBBERY.....	45
IRRIGATION DITCHES AND STRUCTURES.....	45
SUBMITTALS	45
MATERIALS AND EQUIPMENT SCHEDULES	46
QUALITY CONTROL.....	46
SAMPLES AND TESTS	46
LEGAL RELATIONS AND RESPONSIBILITY.....	46
LAWS TO BE OBSERVED	46
ALIEN LABOR.....	46
CONTRACTOR IMMIGRATION WARRANTY.....	46
COMPLIANCE WITH FEDERAL AND STATE LAWS.....	47
EMPLOYMENT PROVISIONS	48
INDEPENDENT CONTRACTOR STATUS.....	48
NONDISCRIMINATION	48
AMERICANS WITH DISABILITIES ACT	49
PERMITS, TAXES AND LICENSES.....	49
PATENTED DEVICES, MATERIALS AND PROCESSES	49

SURVEY LAND MONUMENTS	49
PROTECTION OF PERSON AND PROPERTY	49
PROTECTION OF ANTIQUITIES	49
PERSONAL LIABILITY OF PUBLIC OFFICIALS.....	50
NON-RESPONSIBILITY OF THE CITY.....	50
NO WAIVER OF LEGAL RIGHTS.....	50
PROPERTY RIGHTS IN MATERIAL	50
PAYMENT TO CONTRACTORS	50
GENERAL	50
PARTIAL PAYMENT	50
PAYMENT.....	51
PAYMENT OF ITEMS IN PROPOSAL.....	51
CHANGES IN THE WORK.....	51
FORCE ACCOUNT	52
EXTRA WORK.....	53
CONTRACT AMENDMENT	53
CLAIMS FOR EXTRA WORK.....	54
PARTIAL ACCEPTANCE OF WORK.....	55
NOTIFICATION OF CHANGED CONDITIONS, FORMAL PROTEST AND DISPUTE RESOLUTION	55
PUBLICITY RELEASES.....	56
SCOPE OF WORK.....	56
TECHNICAL SPECIFICATIONS	58
SPECIAL PROVISIONS	59

SPECIAL NOTICE

BIDS WILL BE RETURNED UNOPENED IF NOT SUBMITTED PROPERLY SEALED AND PRIOR TO THE TIME SET FORTH IN THE NOTICE INVITING BIDS. ADDENDA SHALL BE ATTACHED INSIDE THE FRONT COVER OF THIS BOOKLET.

BIDS SHALL BE ENCLOSED IN SEALED ENVELOPES, ADDRESSED TO THE CITY OF PRESCOTT AND MARKED ON THE OUTSIDE LOWER RIGHT-HAND CORNER INDICATING:

1. The Bidder's name;
2. The Project Title;
3. The Time and Date bids are to be received;
4. Acknowledgment of Addenda received.

NOTICE INVITING BIDS

PROJECT: FY 2016 Pavement Rehabilitation Project

DESCRIPTION: The FY 2016 Pavement Rehabilitation Project generally consists of milling and asphalt pavement overlay and pavement resurfacing. The mill and overlay is on Gateway Boulevard, Gail Gardner Way, and Golden Hawk Drive. The resurfacing includes multi-layer and single layer coats of rubber chip seals, microsurfacing, and slurry seal coats. The streets and areas designated for resurfacing include Hassayampa Village Lane, Horizon Hills, and College Heights. The project includes the placement of a conventional asphalt chip seal coat on previously unpaved streets and alleys. The project includes the adjustment of utility covers to finish grade and the restoration of disturbed traffic striping.

BID OPENING: July 2, 2015, 2:00 PM

MANDATORY PRE-BID MEETING: None

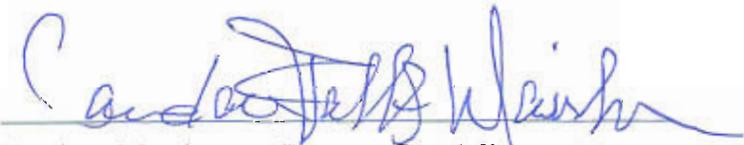
BID SECURITY REQUIRED: Certified check, cashier's check or bid bond in the amount of not less than 10% (TEN PERCENT) of the bid.

Sealed bids will be received at the Office of the City Clerk, addressed to the attention of the City Clerk, City of Prescott, 201 S. Cortez Street, Prescott, AZ 86303, before 2:00 pm on Thursday, July 2, 2015 for furnishing all plant, materials, and labor and performing work for construction of the FY 2016 Pavement Rehabilitation Project.

The outside of the bid envelope shall indicate the name and address of the bidder, and shall be marked: "Bid: FY 2016 Pavement Rehabilitation Project." All bids will be opened and read aloud at 2:00 pm on Thursday, July 2, 2015 in the Office of the City Clerk.

Any bid received at or after 2:00 pm on the above stated date will be returned unopened. The City of Prescott reserves the right to accept or reject any or all bids, and/or some or all of the alternates bid, and waive any informality deemed in the best interest of the City and to reject the bids of any persons who have been delinquent or unfaithful to any contract with the City of Prescott.

Copies of the Notice Inviting Bids, plans and contract documents, specifications, and necessary information are available for public inspection in the office of the Public Works Director, 433 N. Virginia Street, Prescott, Arizona, 86301, (Voice: (928) 777-1130; TDD: 777-1100) and on the City's website: <http://www.prescott-az.gov/business/bids/>. Those interested in having individual sets of the Contract Documents may obtain them upon from the City's website or by payment of \$120.00 per set, which cost is non-refundable. A non-refundable check for \$20.00 will be required for mailing, if so desired.



Candace Manibusan, Contract Specialist

PUBLISHED: 2TC June 14, 2015 and June 21, 2015

INFORMATION FOR BIDDERS

PROPOSAL. All standard specifications and details referenced unless otherwise noted shall conform to all the City of Prescott Standard Specifications and Detail Drawings, most current revision, and to the most current edition of the Uniform Standard Specifications and Details for Public Works Construction by the Maricopa Association of Governments, Arizona, including revisions thereto.

BIDDING REQUIREMENTS AND CONDITIONS. MAG Specifications, Sections 102.1 through 102.13, including: Bids shall be delivered to the office of the City Clerk, City of Prescott, Arizona, before the day and hour set for the submittal of bids in the Notice Inviting Bids as published. Bids shall be enclosed in a sealed envelope bearing the title of the work and the name of the bidder. It is the SOLE responsibility of the bidder to see that his bid is received in proper time. Any bids received after the scheduled closing time for receipt of bids will be returned to the bidder unopened.

IRREGULAR PROPOSALS. MAG Specifications Section 102.7, including: (f) if the bid is mathematically unbalanced, and (g) if the bid is materially unbalanced.

CONFIRMATION OF BID. At any time after the opening of the bids the Public Works Director may require any bidder on the project to confirm such bid in writing prior to contract award. The following certification language shall be submitted by separate letter on company letterhead when requested by the Public Works Director:

I, _____ the undersigned hereby certify the prices bid for the _____ Project have been reviewed and I hereby confirm work can be completed in accordance with the requirements of the contract documents, plans and specifications in the total bid amount of \$ _____ as stated in the Bidding Schedule.

EXPERIENCE AND QUALIFICATIONS. When requested by the City, the Bidder shall supply a list of all public projects begun within the previous three (3) years prior to contract award. The project list shall contain all public projects entered into by the Bidder and shall include the project name and location, original and final contract amounts, project status and a contact name and information. The Bidder shall provide a description and explanation for any projects that were not completed successfully. Failure to provide complete and factual information may be grounds for rejection of the bid in accordance with City Procurement Code Section 1-27-1.18(K).

SUBCONTRACTORS LIST BID FORM. The Subcontractors List Bid Form must be completed, attached and submitted along with the Bidding Schedule.

BID SECURITY. A bid bond in the amount of 10% of the bid shall be required at the time the bid or proposal is submitted, in accordance with ARS Section 34-201(A)(3).

WITHDRAWAL OF BID. Any bidder may withdraw his bid, either personally, telegraphic, or by written request, at any time prior to the scheduled closing time for receipt of bids.

INTERPRETATION OF PLANS AND DOCUMENTS. MAG Specifications, Section 102.4, including: If any person contemplating submitting a bid for the proposed Contract is in doubt as to the true meaning of any part of the Plans, specifications, or other proposed Contract Documents, or finds discrepancies in or omissions from the Plans or Specifications, he shall submit to the City of Prescott Public Works Director a written request for an interpretation or correction thereof no later than five working days before bid or proposal opening. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the proposed documents will be made or

delivered to each person receiving a set of such documents. Interested bidders³ may call or visit the office of the City of Prescott Public Works Director with any questions up to 5:00 PM on the last Thursday prior to the bid opening date. The City of Prescott will no longer address or interpret any general questions or comments after 5:00 PM on the last Thursday prior to the bid opening date. Comments or questions received after the above referenced time will not be given consideration by the Department. Should any issue be determined significant to the project by the Public Works Director, appropriate action will be taken. Voice: (928) 777-1130; TDD (928) 777-1100.

PRE-AWARD CONFERENCE. The City may require the apparent low bidder to attend a Pre-award conference in order to establish that the Contractor fully understands the scope, complexity and expectations of the project as described in the Contract Documents; to discuss issues, concerns, risk areas and how to minimize them within the bounds of the contract; and to determine that the apparent low bidder is the most responsible and/or most qualified bidder in accordance with City Procurement Code Section 1-27-1.18(K).

The purpose of the Pre-award Conference is to ensure that all participants are apprised of their responsibilities and obligations regarding all applicable laws, rules, regulations and Ordinances contained in the contract documents prior to entering into a contract.

AWARD AND EXECUTION OF CONTRACT. MAG Specifications, Section 103.1 through 103.8, Award of Contract, first paragraph, 103.1, to be revised as follows:

The Contract will be awarded to the lowest qualified bidder complying with these instructions and with the Notice Inviting Bid. The City, however, reserves the right to accept or reject any or all bids if it deems it best for the public good, and to waive any informality in the bids received. The award, if made, will be within sixty (60) calendar days after the opening of bids.

ASSIGNMENT OF CONTRACT. No partial or full assignment by the Contractor of any contract to be entered into hereunder, or any part thereof, or of funds to be received there under by the Contractor, will be recognized by the City unless such assignment has had prior written approval of the City and the surety has been given due notice of such assignment in writing and has been given due notice of such assignment in writing and has consented thereto in writing.

PLANS AND SPECIFICATIONS TO SUCCESSFUL BIDDER. The successful bidder may obtain six (6) sets of Plans and Specifications for this project at no extra cost. If he desires more than the six (6) sets, he may purchase additional sets of Plans and Specifications from the Public Works Director at the cost set forth in the Notice Inviting Bids.

NON-PERFORMANCE OF WORK TASKS BY THE CONTRACTOR. If the Contractor fails, neglects, or refuses to perform work tasks necessary for the completion of the total job; replace defective work; to repair or resurface, in a manner that is acceptable to the City and Engineer, public rights-of-way disturbed by his work which are a nuisance, hazard, impedes or endangers vehicular traffic and the public; the City may serve written notice upon the Contractor of its intention to have the work performed by others. Unless, within 3 calendar days after the service of such notice, the Contractor has made such arrangement & scheduled the accomplishment of said work tasks to the satisfaction of the City & Engineer, the City will proceed to have the work accomplished by others or by itself & deduct the costs thereof from amounts due to the Contractor.

INDEMNIFICATION OF CITY AGAINST LIABILITY. The Contractor shall defend, indemnify and hold harmless the City of Prescott, its departments, officers, officials, agents, and employees (hereinafter referred to as "Indemnitee") from and against any and all claims, actions, liabilities, damages, losses, or expenses (including court costs, attorneys' fees and costs of claim processing, investigation and litigation) (hereinafter referred to as "Claims") for bodily injury or personal injury

(including death), or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of the Contractor or any of its owners, officers, directors, agents, employees or subcontractors. This indemnity includes any claim or amount arising out of or recovered under Worker's Compensation Law or arising out of failure of such contractor to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. It is the specific intentions of the parties that the Indemnitee shall, in all instances, except for Claims arising solely from the negligent or willful acts of Indemnitee, be indemnified by Contractor from and against any and all claims. In consideration of the award of this contract, the Contractor agrees to waive all rights of subrogation against the City of Prescott, its departments, officers, officials, agents, and employees for losses arising from the work performed by the Contractor for the City of Prescott.

DEFINITIONS. According to MAG Specifications, Section 101.2, including:

- A. AWARD: The formal action of the governing body in accepting a proposal.
- B. BID SECURITY: Refers to the certified check, cashier's check, or surety bond, which is required to be submitted with the proposal to insure execution of the contract and the furnishing of the required bonds.
- C. CITY: City of Prescott
- D. CITY'S REPRESENTATIVE: The authorized representative of the City, which may be an individual or a firm, or his assistants assigned to the project work, the project site, or any part thereof during the performance of the work by the Contractor and until final acceptance.
- E. PUBLIC WORKS DIRECTOR: The City of Prescott Public Works Director or his designee, representative or assistants.
- F. DESIGN ENGINEER: The firm or person and his properly authorized assistants, designated by the City to prepare Plans and Specifications for the work.
- G. NOTICE TO BIDDERS: Refers to the standard forms inviting proposals or bids.
- H. MATERIALLY UNBALANCED BID: A bid that generates a reasonable doubt that award to the bidder submitting a mathematically unbalanced bid will result in the lowest ultimate cost to the City.
- I. MATHEMATICALLY UNBALANCED BID: A bid containing lump sum or unit bid prices that do not reflect reasonably anticipated actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs.

ADDENDA. MAG Specifications, Sections 102.1 through 102.13, including: Any Addenda issued during the time of bidding, forming a part of the documents issued to the bidder for the preparation of his bid, shall be covered in the bid and shall be made a part of the contract.

BID SCHEDULE

FY 2016 PAVEMENT REHABILITATION PROJECT

Item	Description	Quantity	Unit	Unit Cost	Amount
100.4	Public Relations Allowance	1	LS	\$30,000.00	\$30,000.00
104.3	Mobilization	1	LS		
105.8	Construction Staking	1	LS		
109.1	Contract Allowance	1	LS	\$120,000.00	\$120,000.00
205.2	Removal of Unsuitable Subgrade Material and Backfill with ABC	260	CY		
317.3c	Mill Asphalt Pavement - 2" to 2.5" Nominal Depth	47,000	SY		
321.8.7a	Pavement Fabric Interlayer	47,000	SY		
321.8.7b	Pavement Fabric Asphalt Binder Coat	11,750	Gallons		
321.13a	A. C. Pavement Overlay - 2" Thick	49,000	SY		
321.15a	Pavement Repair Type 1	2,000	SF		
321.16	Crack Sealing	25,000	LF		
330.1	Asphalt Chip Seal	14,000	SY		
331.8a	Microsurfacing Dry Aggregate	340	TN		
331.8b	Microsurfacing Asphalt Emulsion	44	TN		
332.9	Asphalt Emulsion Slurry Seal	27,000	SY		
340.1a	Concrete Roll Curb Replacement	30	LF		
340.1b	Concrete Vertical Curb, Gutter, and Sidewalk Replacement	40	LF		
340.2	Concrete Handicap Ramp Upgrade	3,940	SF		
345.1a	Adjust Sewer Manhole Frame and Cover	66	EA		
345.1b	Adjust Sewer Cleanout Frame and Cover	12	EA		
345.1c	Adjust Telephone Manhole Frame and Cover	3	EA		
345.1d	Adjust Storm Drain Frame and Cover	14	EA		
345.1e	Adjust Water Valve Box and Cover	80	EA		
370	Rubber Chip Seal	27,000	SY		
401.7a	Traffic Control Plan	1	LS		
401.7b	Flaggers	2,400	Hour		
401.7c	Certified Police Personnel Allowance	1	LS	\$18,000.00	\$18,000.00
401.7d	Barricades and Storage	1	LS		
401.7e	Lighted Message Board	120	Day		
401.7f	Pilot Car and Driver	120	Hour		
401.7g	Incidental Traffic Control Related Items	1	LS		
402.2a	Thermoplastic Striping - White	2,100	LF		
402.2b	Thermoplastic Left Turn Arrow	33	EA		
402.2c	Thermoplastic Right Turn Arrow	12	EA		
402.2d	Thermoplastic Thru Arrow	4	EA		
402.2e	Thermoplastic Right/Thru Arrow	2	EA		
402.3a	Temporary Striping - White Paint	56,000	LF		
402.3b	Temporary Striping - Yellow Paint	29,000	LF		
402.3c	Temporary Left Turn Arrow	33	LF		
402.3d	Temporary Right Turn Arrow	12	LF		
402.3e	Temporary Thru Arrow	4	LF		
402.3f	Temporary Right/Thru Arrow	2	LF		
402.4a	Permanent Striping - White Paint	19,000	LF		
402.4b	Permanent Striping - Yellow Paint	21,000	LF		
405.3.2	Adjust Survey Monument Frame and Cover	19	EA		
	Total Bid Amount				

BID SCHEDULE

FY 2016 PAVEMENT REHABILITATION PROJECT

TOTAL BID AMOUNT

Dollars

(Written Words)

Signature of Company Official

Title

Company Name

Phone Number

Address

Fax Number

City/State

Zip Code

City of Prescott Public Works Department

SUBCONTRACTORS LIST BID FORM

FY 2016 Pavement Rehabilitation Project

	Company Name and License Number	Mailing Address	Phone Number	Bid Item(s)	Total Sub-contract Amount
1					\$
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
	Total Sub-Contract Amount				\$

INSTRUCTIONS FOR PREPARING PROPOSAL

Payment for all work performed under this Contract shall be based on the units as shown in the Bidding Schedule. Payment of the bid items as stated in the Contractor's proposal for the completed work, shall be compensation in full for the furnishing of all overhead, labor, materials, devices, equipment and appurtenances included in the work as are necessary to complete the total work under this Contract in a good, neat, and satisfactory manner as indicated on the Plans, as described in the Specifications, and as otherwise implied or required to fulfill the objective of the work. It is the intent of the contract that maximum payment shall not exceed the agreed unit price without duly authorized contract amendments. Each item, fixture, piece of equipment, work, etc., as indicated on the Plans, or specified anywhere in these Documents shall be completed with all necessary connections and appurtenances for the satisfactory use and operation of said item, and the total system or systems.

Any and all patents, license fees, insurance premiums, etc., for the right to use equipment or processes included in this Contract shall be included in the total bid price.

Cost of testing, and other incidental operations, profit and overhead cost, including the cost of supervision, temporary field offices, move-in, move-out, insurance, taxes, equipment not a permanent part of the job, and other incidental items, shall be included in the total bid price.

The "Total Amount of Bid" must be filled out by the bidder. In case of any discrepancy between the price in figures and price in written words, as written or corrected, the price in written words shall be presumed to be correct unless obviously in error, and shall be considered as the Contractor's correct and intended bid.

Bids shall not contain any recapitulations of the work to be done. Alternative proposals will not be considered unless called for. If anyone is in doubt as to the true meaning of any part of the Plans, Specifications, or other Contract Documents, or finds discrepancies in or omissions from the Plans or Specifications, he must submit to the Engineer a written request for an interpretation or correction thereof. The person submitting the request will be responsible for its prompt delivery.

Any interpretation or correction of the Contract documents will be made only by an Addendum duly issued by the City and a copy of such Addendum will be mailed, faxed, or delivered to each person receiving a set of such Documents. The City will not be responsible for any other explanations or interpretations of the Documents.

If the Proposal is made by an individual, it shall be signed and his full name and address shall be given. If it is made by a partnership, it shall be signed with the partnership name and by a general partner of the firm who shall also sign his own name, and the name and address of each partner shall be given; and, if it is made by a corporation, the name of the corporation shall be signed by its duly authorized officer or officers.

The Subcontractors List Bid Form must be completed, attached and submitted along with the Bidding Schedule.

PROPOSAL

Place: _____

Date: _____

Proposal of _____
(Name)

Corporation organized and existing under the laws of the State of Arizona; a partnership consisting of _____ or an individual trading as _____

TO THE HONORABLE MAYOR AND COUNCIL
CITY OF PRESCOTT
PRESCOTT, ARIZONA

Ladies and Gentlemen:

The Undersigned hereby proposes and agrees to furnish any and all required labor, material, construction equipment, transportation, and services for completion of the FY 2016 Pavement Rehabilitation Project, in strict conformity with the plans and specifications, at the total bid price of: _____ Dollars
(\$ _____).

The Undersigned hereby declares that he has visited the site and has carefully examined the Contract Documents relating to the work covered by the above bid or bids.

The Bid Security (Certified Check, Cashier's Check, or Bid Bond) attached, payable to the City of Prescott in the sum of not less than ten percent (10%) of the total bid price bid for the complete project, to insure that the undersigned, if his bid is accepted, shall enter into contract and give the bonds and certificates of insurance required. In the event that the contract and bonds and certificates of insurance required are not furnished to the City within the time required, then and in that event the City may retain from the bid bond an amount, not to exceed the amount of the bid bond, representing the difference between the amount specified in the proposal or bid, and such larger amount that the City in good faith contracts with another party to perform the work covered by the proposal or bid.

The project shall be completed within fifty (50) calendar days after the starting date set forth in the NOTICE TO PROCEED.

The undersigned hereby declares, as bidder, that the only persons or parties interested in this PROPOSAL as principals are those named herein; that no elected official or employee of the City is in any manner interested directly or indirectly in this PROPOSAL or in the profits to be derived from the Contract proposed to be taken, other than as permitted by law; that this bid is made without any connection with any other person or persons making a separate bid for the same purpose; that the bid is in all respects fair and without collusion or fraud; that he has read the NOTICE INVITING BIDS and the INFORMATION FOR BIDDERS hereto attached, and as more fully described in the attached contract and specifications, and agrees to furnish the items and perform the work called for

in accordance with the provisions of said form of Contract and the Specifications and to deliver the same within the time stipulated herein, and that he will accept in full payment therefore the total bid price named in this Proposal.

The bidder shall be an A-General Engineering contractor properly licensed at the time of bidding to perform construction in connection with fixed works, including streets, roads, power and utilities plants, dams, hydroelectric plants, sewage and waste disposal plants, bridges, tunnels, and overpasses and shall also be licensed to perform work within residential and commercial property lines, or shall be properly licensed to sub-contract residential or commercial work, as may be required in the Scope of Work.

Any bid submitted without the proper contracting license to perform the required work shall be considered non-responsive and rejected.

The bidder further agrees that, upon receipt of written notice of the acceptance of this PROPOSAL, he will execute the Contract in accordance with the PROPOSAL as accepted and furnish the required bonds TEN (10) days from the date of mailing of said notice of award to him at his address as given below, or within such additional time as may be allowed by the City; and that upon his failure or refusal to do so within said time, then the certified or cashier's check or bid bond accompanying this bid shall be cashed or enforced and the money payable pursuant thereto shall be forfeited to and become the property of the City as liquidated damages for such failure or refusal; provided that if said bidder shall execute the Contract and furnish the required bonds within the aforesaid time, his certified or cashier's check, if furnished, shall be returned to him within three (3) days thereafter, and the bid bond, if furnished, shall become void.

Bidder understands and agrees that the City reserves the right to reject any or all bids and to waive any informality in the bidding.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids.

Bidder acknowledges receipt of the following Addenda: _____

The undersigned is the holder of Arizona State Contractor's License No(s). and Classification(s):

Respectfully submitted,

Bidder

Corporate Seal

By: _____

Title: _____

Bidders Address, Telephone and Fax Number:

Names and addresses of all members of the firm or names and titles of all officers of the corporation:

BIDDERS AFFIDAVIT

FY 2016 Pavement Rehabilitation Project

State of _____)
County of _____) ss.

_____, being first duly sworn, deposes and says:

That he/she is _____ of _____
(Title) (Bidder)

who submits herewith to the City of Prescott, Arizona, a proposal:

That all statements of fact in such proposal are true;

That said proposal was not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation;

That said bidder has not, directly or indirectly by agreement, communication or conference with anyone attempted to induce action prejudicial to the interest of the City of Prescott, Arizona, or of any bidder or anyone else interested in the proposed contract; and further,

That prior to the public opening and reading of proposal, said bidder:

1. Did not directly or indirectly, induce or solicit anyone else to submit a false or sham proposal;
2. Did not directly or indirectly collude, conspire, connive or agree with anyone else that said bidder or anyone else would submit a false or sham proposal, or that anyone should refrain from bidding or withdraw his proposals;
3. Did not in any manner, directly or indirectly, seek by agreement, communication or conference with anyone to raise or fix the proposal price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost element of his proposal price, or of that of anyone else;
4. Did not, directly or indirectly, submit his proposed price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association organization, bid depository or to any member or agent thereof, or to any individual or group of individuals, except the City of Prescott, Arizona, or to any person or persons who have a partnership or other financial interests with said bidder in his business.

By: _____

SUBSCRIBED AND SWORN to before me by _____ this

_____ day of _____, 2015.

Notary Public

Commission Expires

INSURANCE REQUIREMENTS

INSURANCE

A. Contractor and subcontractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

The City in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this Contract by the Contractor, his agents, representatives, employees, or subcontractors. Contractor is free to purchase such additional insurance as may be determined necessary.

ADDITIONAL INSURANCE REQUIREMENTS: The policies shall include, or be endorsed to include, the following provisions:

1. On insurance policies where the City of Prescott is named as an additional insured, the City of Prescott shall be an additional insured to the full limits of liability purchased by the Contractor even if those limits of liability are in excess of those required by this Contract.
2. The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

NOTICE OF CANCELLATION: With the exception of a ten (10) day notice of cancellation for non-payment of premium, any changes material to compliance with this contract in the insurance policies above shall require a thirty (30) day written notice.

ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-VII, unless otherwise approved by the City of Prescott. General liability, automobile liability, and worker's compensation insurance is to be placed with an insurer admitted in the state in which operations are taking place.

VERIFICATION OF COVERAGE:

A. Contractor shall furnish the City with certificates of insurance (ACORD form or equivalent approved by the City) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the City before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project and warranty period as set forth in Paragraph 3 of the "Contractor's Affidavit Regarding Settlement of Claims and Certification of Completion of Warranties". Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

All certificates required by this Contract shall be sent directly to the Public Works Department, 433 N. Virginia Street, Prescott, AZ 86301. The City project/contract number and project description

shall be noted on the certificate of insurance. The City reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.

B. MAG Specifications, Sections 103.1 through 103.8, including: Unless otherwise specifically required by the Special Conditions, the minimum limits of public liability and property damage liability shall be as follows:

C. Contractor shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the minimum liability requirements provided that the coverage is written on a following form basis.

Commercial General Liability – Occurrence Form –

Policy shall include bodily injury, property damage, broad form contractual liability and XCU coverage.

- General Aggregate \$ 3,000,000
- Products – Completed Operations Aggregate \$ 3,000,000
- Personal and Advertising Injury \$ 1,000,000
- Each Occurrence \$ 1,000,000
- Fire Legal Liability (Damage to Rented Premises)(if applicable) \$ 100,000

The policy shall be endorsed to include the following additional insured language:

“The Contractor agrees to endorse the City of Prescott as an Additional Insured on the Commercial General Liability with the following Additional Insured endorsement, or similar endorsement providing equal or broader Additional Insured coverage, the CG 2010 10 01 Additional Insured - Owners, Lessees, or Contractors, or CG2010 07 04 Additional Insured – Owners, Lessees, or Contractors – Scheduled Person or Organization endorsement in combination with the additional endorsement of GC2037 10 01 Additional Insured – Owners, Lessees, or Contractors – Completed Operations shall be required to provide back coverage for the contractor’s “your work” as defined in the policy and liability arising out of the products-completed operations hazard.”

Business Automobile Liability: Bodily Injury and Property Damage for any owned, hired, and/or non-owned vehicles used in the performance of this Contract.

Combined Single Limit (CSL) \$ 1,000,000

The policy shall be endorsed to include the following additional insured language:

“The City of Prescott shall be named as additional insured with respect to liability arising out of the activities performed by or on behalf of the Contractor, involving automobiles, owned, leased, hired, or borrowed by the Contractor.”

Worker’s Compensation and Employer’s Liability

Workers’ Compensation	Statutory
Employer’s Liability	
Each Accident -	\$1,000,000
Disease – each employee -	\$1,000,000
Disease – policy limit -	\$1,000,000

Policy shall contain a waiver of subrogation against the City of Prescott for losses arising from work performed by or on behalf of the Contractor.

Professional Liability (Errors and Omissions Liability) – *if applicable*

Each Claim	\$ 1,000,000
Annual Aggregate	\$ 2,000,000

1. In the event that the professional liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years at the time work under this contract is completed.

2. The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Work of this contract.

Notice of Cancellation: With the exception of a ten (10) day notice of cancellation for non-payment of premium, any changes material to compliance with this contract in the insurance policies above shall require a thirty (30) day written notice.

D. Such policy shall not exclude coverage for the following:

1. Injury to or destruction of any property arising out of the collapse of/or structural injury to any building or structure due to grading of land, excavation, borrowing, filling, backfilling, tunneling, pile driving, cofferdam work or caisson work.
2. Injury to or destruction of wires, conduits, pipes, mains, sewers, or other similar property or any apparatus in connection therewith, below the surface of the ground, if such injury or destruction is caused by and occurs during the use of mechanical equipment for the purpose of grading of land, paving, excavating, drilling; or injury to or destruction of any property at any time resulting there from.
3. Injury to or destruction of any property arising out of blasting or explosion.
4. Motor vehicle public liability and property damage insurance to cover each automobile, truck, and other vehicle used in the performance of the Contract in an amount of not less than \$1,000,000.00 for one person, and \$1,000,000.00 for more than one person, and property damage in the sum of \$1,000,000.00 resulting from any one accident which may arise from the operations of the Contractor in performing the work provided for herein.

E. The Contractor shall carry and maintain fire and extended coverage with an endorsement for vandalism and malicious mischief in Contractor's name and also in the name of the City in an amount of at least ONE HUNDRED PERCENT (100%) of the Contract amount (if applicable).

F. The Contractor shall secure "all risk"-type builder's risk insurance for work to be performed. Unless specifically authorized by the City, the amount of such insurance shall not be less than ONE HUNDRED PERCENT (100%) of the contract price. Such policy shall include coverage for earthquake, landslide, flood, collapse, or loss due to the results of faulty workmanship, during the contract time and until final acceptance of work by the City (if applicable).

NOTICE TO PROCEED. The Contractor or subcontractor shall not work on any part of the project or incur any expenses or obligations until a Notice to Proceed has been issued by the City. The Notice to Proceed will be sent to the Contractor by first class mail or delivered to him in person.

ASSIGNMENT OF PAYMENTS. MAG Specifications, Section 109.3, including assignment of contract clause included in the "Information for Bidders" in this set of specifications.

CONSTRUCTION CONTRACT

FY 2016 Pavement Rehabilitation Project

THIS AGREEMENT, made and entered into this _____ day of _____, 2015, by and between _____ of the City of _____, County of _____, State of Arizona, hereinafter designated "Contractor", and the City of Prescott, a municipal corporation, organized and existing under and by virtue of the laws of the State of Arizona, hereinafter designated "City".

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

ARTICLE I - SCOPE OF WORK: The Contractor shall furnish any and all labor, materials, equipment, transportation, utilities, services and facilities, required to perform all work for the construction of the project described as City of Prescott: FY 2016 Pavement Rehabilitation Project and install the material therein for the City, in a good and workmanlike and substantial manner and to the satisfaction of the City through its Engineers and under the direction and supervision of the Public Works Director, or his properly authorized agents and strictly pursuant to and in conformity with the Plans and Specifications prepared by the engineers for the City, and with such written modifications of the same and other documents that may be made by the City through the Public Works Director or his properly authorized agents, as provided herein.

ARTICLE II - CONTRACT DOCUMENTS: The Notice Inviting Bids, Plans, Technical Specifications, Special Provisions, Addenda, if any, Proposal and Insurance Requirements as accepted by the Mayor and Council per Council Minutes of _____, 2015, Performance Bond, Payment Bond, Bid Bond, Certificate of Insurance and Contract Amendments, if any, are by this reference made a part of this Contract to the same extent as if set forth herein in full.

ARTICLE III - TIME OF COMPLETION: The Contractor hereby agrees to commence work on or before the tenth (10th) day after written notice to do so, and to fully complete the same within fifty (50) calendar days after the date of the written notice to commence work, subject to such extensions of time as are provided by the General Conditions.

ARTICLE IV - COMPENSATION: Contractor shall be paid, pursuant to the provisions as set forth in the Contract documents, the total sum of _____ Dollars (\$ _____), plus any approved contract amendments, for the full and satisfactory completion of all work as set forth in the Project Specifications and Contract Documents. Retention shall be in accordance with Arizona Revised Statutes Section 34-221.

ARTICLE V - CONFLICT OF INTEREST: Pursuant to ARS Section 38-511, the City of Prescott may cancel this contract, without penalty or further obligation, if any person significantly

involved in initiating, negotiation, securing, drafting or creating the contract on behalf of the City of Prescott is, at any time while the contract or any extension of the contract is in effect, an employee or 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. In the event of the foregoing, the City of Prescott further elects to recoup any fee or commission paid or due to any person significantly involved in initiating, negotiation, securing, drafting or creating this contract on behalf of the City of Prescott from any other party to the contract, arising as a result of this contract.

ARTICLE VI - AMBIGUITY: This Agreement is the result of negotiations by and between the parties. Although it has been drafted by the Prescott City Attorney, it is the result of the negotiations between the parties. Therefore, any ambiguity in this Agreement is not to be construed against either party.

ARTICLE VII - NONDISCRIMINATION: The Contractor, with regard to the work performed by it after award and during its performance of this contract, will not discriminate on the grounds of race, color, national origin, religion, sex, disability or familial status in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor will not participate either directly or indirectly in the discrimination prohibited by or pursuant to Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Section 109 of the Housing and Community Development Act of 1974, the Age Discrimination Act of 1975, the Americans With Disability Act (Public Law 101-336, 42 U.S.C. 12101-12213) and all applicable federal regulations under the Act, and Arizona Governor Executive Orders 99-4, 2000-4 and 2009-09 as amended.

ARTICLE VIII - INDEPENDENT CONTRACTOR STATUS: It is expressly agreed and understood by and between the parties that the Contractor is being retained by the City as an independent contractor, and as such the Contractor shall not become a City employee, and is not entitled to payment or compensation from the City or to any fringe benefits to which other City employees are entitled other than that compensation as set forth in Article IV - Compensation above. As an independent contractor, the Contractor further acknowledges that he is solely responsible for payment of any and all income taxes, FICA, withholding, unemployment insurance, or other taxes due and owing any governmental entity whatsoever as a result of this Agreement. As an independent contractor, the Contractor further agrees that he will conduct himself in a manner consistent with such status, and that he will neither hold himself out nor claim to be an officer or employee of the City by reason thereof, and that he will not make any claim, demand or application to or for any right or privilege applicable to any officer or employee of the City, including but not limited to workmen's compensation coverage, unemployment insurance benefits, social security coverage, or retirement membership or credit.

ARTICLE IX - CITY FEES: Prior to final payment to the Contractor, the City shall deduct therefrom any and all unpaid privilege, license and other taxes, fees and any and all other unpaid moneys due the City from the Contractor, and shall apply to those moneys to the appropriate account. Contractor shall provide to the City any information necessary to determine the total amount(s) due.

ARTICLE X - LIQUIDATED DAMAGES: All time limits stated in the contract documents are of the essence and should the Contractor fail to complete the work required to be done on or before the time of completion as set forth in these contract documents, including any authorized extension of time, it is mutually agreed and understood by and between the parties that the public will suffer great damages; that such damages, from the nature of the project, will be extremely difficult and impractical to fix; that the parties hereto wish to fix the amount of said damages in advance; and that the sum of \$710.00 per day for each and every day's delay in completion and acceptance of the work

required to be done by the Contractor subsequent to the time of completion, including any authorized extensions of time, is the nearest and most exact measure of damages for such breach that can be fixed now or could be fixed at or after such breach and that, therefore, the Owner and Contractor agree to fix said sum of \$710.00 per day for each and every said day's delay as liquidated damages, and not as a penalty or forfeiture for the breach of the agreement to complete the work required to be done by the Contractor on or before the time of completion and acceptance and, in the case of such breach, the Owner shall deduct said amount from the amount due the Contractor under the contract. In the event the remaining balance due the Contractor is insufficient to cover the full amount of assessed liquidated damages, then the Contractor or the surety on the bonds shall pay the difference due the Owner.

ARTICLE XI – OTHER WORK IN PROJECT AREA

The City of Prescott, any other contractors, whether under contract with the City, a third party, and/or utilities, may be working within the project area while this Contract is in progress. The Contractor herein acknowledges that delays and disruptions may, and in all likelihood, will occur due to other work. The Contractor's bid shall be deemed to have recognized and included costs arising from and associated with other work in the project area disclosed by the Contract Documents or which would be apparent to an experienced contractor exercising due diligence during inspection of the project documents, the question and answer session in the pre-bid process or during site inspection. No payment will be made for any delays or disruptions in the work schedule that are wholly the fault of the contractor, its agents, employees or any of the contractor's subcontractors. In the event that the contractor encounters delay or disruption in the project schedule due to factors not wholly the fault of the contractor or within the contractor's control then the Contract may be adjusted pursuant to the Delay's and Extension of Time provisions of this Contract and a timely request submitted for Contract Amendment. Failure to submit a timely request for Contract Amendment shall be deemed a waiver of any entitlement to additional compensation.

ARTICLE XII - BONDS

- A. On or before the execution of the contract, the Contractor shall obtain in an amount equal to the full contract price a performance bond pursuant to ARS Section 34-222, conditioned upon the faithful performance of this contract in accordance with the plans, specifications and conditions herein. Such bond shall be solely for the protection of the City of Prescott. A copy of this bond shall be filed with the Prescott City Clerk.
- B. Contractor shall also obtain a payment bond, pursuant to the provisions of ARS Section 34-222, in an amount equal to this full contract price herein, said bond to be solely for the protection of claimants supplying labor or materials to the Contractor or his subcontractors in the prosecution of the work provided for in this contract. A copy of this bond shall be filed with the Prescott City Clerk.
- C. All bonds must be written by an insurance company authorized to do business in the State of Arizona, to be evidenced by a Certificate of Authority as defined in ARS Section 20-217, a copy of which certificate is to be attached to the applicable bid bond, payment bond and performance bond. In addition, depending upon the nature of the contract and amount thereof, the City Manager may also require insurance companies and/or bonding companies to have an "A" rating or better with Moody's or A.M. Best Company, and/or to be included on the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (as amended) by the audit staff, Bureau of Accounts, US Treasury Department.

ARTICLE XIII - MISCELLANEOUS

- A. The parties hereto expressly covenant and agree that in the event of a dispute arising from this Agreement, each of the parties hereto waives any right to a trial by jury. In the event of litigation, the parties hereby agree to submit to a trial before the Court. The Contractor further agrees that this provision shall be contained in all subcontracts related to the project, which is the subject of this Agreement.
- B. The parties hereto expressly covenant and agree that in the event of litigation arising from this Agreement, neither party shall be entitled to an award of attorney fees, either pursuant to the Contract, pursuant to ARS Section 12-341.01 (A) and (B), or pursuant to any other state or federal statute, court rule, case law or common law. The Contractor further agrees that this provision shall be contained in all subcontracts related to the project that is the subject of this Agreement.
- C. Any notices to be given by either party to the other must be in writing, and personally delivered or mailed by prepaid postage, at the following addresses:

Public Works Director	**
City of Prescott	**
433 N. Virginia Street	**
Prescott, AZ 86301	

- D. This Agreement shall be construed under the laws of the State of Arizona.
- E. This Agreement represents the entire and integrated Agreement between the City and the Contractor and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both the City and the Contractor. Written and signed amendments shall automatically become part of the Agreement, and shall supersede any inconsistent provision therein; provided, however, that any apparent inconsistency shall be resolved, if possible, by construing the provisions as mutually complementary and supplementary.
- F. In the event any provision of this Agreement shall be held to be invalid and unenforceable, the remaining provisions shall be valid and binding upon the parties. One or more waivers by either party of any provision, term, condition or covenant shall not be construed by the other party as a waiver of a subsequent breach of the same by the other party.
- G. No oral order, objection, claim or notice by any party to the other shall affect or modify any of the terms or obligations contained in this Agreement, and none of the provisions of this Agreement shall be held to be waived or modified by reason of any act whatsoever, other than by a definitely agreed waiver or modification thereof in writing. No evidence of modification or waiver other than evidence of any such written notice, waiver or modification shall be introduced in any proceeding.
- H. In the event of a discrepancy between this Agreement and other documents incorporated into this Agreement, this Agreement shall control over Exhibit "A".
- I. Non-Availability of Funds: Fulfillment of the obligation of the City under this Agreement is conditioned upon the availability of funds appropriated or allocated for the performance of such obligations. If funds are not allocated and available for the continuance of this Agreement, this Agreement may be terminated by the City at the end of the period for which the funds are available. No liability shall accrue to the City in the event this provision is exercised, and the

City shall not be obligated or liable for any future payments as a result of termination under this paragraph.

IN WITNESS WHEREOF, three (3) identical counterparts of this Contract, each of which shall for all purposes be deemed an original thereof, have been duly executed by the parties herein above named, on the date and year first above written.

ATTEST:

Witness, if Contractor is an Individual

Contractor

By: _____

Title: _____

City of Prescott, a municipal corporation

Marlin D. Kuykendall, Mayor

Attest:

Approved as to Form:

Dana R. DeLong, City Clerk

Jon M. Paladini, City Attorney

GENERAL CONDITIONS

COMMENCEMENT, PROSECUTION AND PROGRESS

PRECONSTRUCTION CONFERENCE

Within 15 days of the date of the Notice of Award, the Contractor is required to attend a Pre-construction Conference. The City will contact the Contractor to schedule a specific date, time and location for the Pre-construction Conference. The purpose of the meeting is to outline specific construction items and procedures and to address items, which require special attention on the part of the Contractor. The Contractor may also present proposed variations in procedures, which the Contractor believes may be of benefit to the project, reduce cost, or will reduce inconvenience to the public. Communication and coordination issues will be also addressed during the Pre-construction Conference. The Contractor will be required to provide five sets of the following information at the Pre-construction Conference:

- A. Names and emergency telephone number of key personnel involved in the project.
- B. A copy of each subcontractor's contract or purchase order agreement for each and every item of work under subcontract on the project.
- C. The Construction Schedule as defined elsewhere in the General Conditions.
- D. A payment schedule showing the estimated dollar volume of work for each calendar month during the life of the project.
- E. The Traffic Control and access management plan providing for continuous access to residents and businesses affected by the project.
- F. The Contractor's Company Safety Plan.
- G. The Contractor's Quality Control Plan.
- H. An itemized list of shop drawings, materials, mix designs, equipment submittals and a schedule indicating the dates each of these items will be transmitted to the Public Works Director for review.

Each of the above items is subject to review and approval by the Public Works Director.

COMMENCEMENT

The Contractor shall commence work on or before the tenth (10th) calendar day after receiving the Notice to Proceed, and shall complete all work under the Contract within the period of time specified in the Special Conditions. The City reserves the right to issue Notice to Proceed at any time between zero (0) and sixty (60) days after contract award. Notice to Proceed will be issued not later than sixty (60) calendar days after the Contract has been awarded unless otherwise agreed upon in writing, or as may be specified in the Special Conditions. In addition, Contractor shall not commence work until all required documents, bonds, plans and schedules have been received and approved by the City. These submittals will not affect the issuance of Notice to Proceed by the City.

PUBLIC NOTICE

- A. Contractor shall issue written notification to those residents affected by the Public Works Project. This notification shall contain at a minimum: (1) Type of Work; (2) Contractor; (3) Contractor's Phone Number and Point of Contact; (4) Duration of Project; (5) Date project commences; (6) Description of project site; (7) Contractor's after-hours Point of Contact and phone number.

B. The Contractor is required to post public notification signs at all entrances to the project specifying the following information: (1) Project Name/Description (2) Construction Calendar (3) Contractor Name/Phone Number Day & Night (4) City of Prescott (928) 777-1130.

C. The sign size and legend shall be appropriate for the intended purpose and be easily read. Sign background shall be blue with white letters. The sign size and legend content shall be approved by the Public Works Department prior to sign manufacture. All signs shall be posted prior to commencement of any work on the project. Signs will be removed by the contractor upon final acceptance of the project. No direct payment shall be made for said signs, cost of such shall be considered incidental to the contract.

SUBCONTRACTORS

MAG Specifications, Section 108.2, including the following:

- A. All subcontractors and purchase orders for equipment shall state and establish guaranteed delivery dates, at such times as determined by the Contractor, which will allow the Contractor to complete the project within the Contract time.
- B. The Contractor shall perform more than forty percent (40%) of the work (by total contract amount) involved in this project with his own forces. Total subcontracted amounts shall be limited to less than sixty percent (60%) of the total contract amount. For purposes of this requirement, materials purchased directly from suppliers and installed by the Contractor's own forces shall be included in the Contractor's total and materials installed by subcontractors, regardless of who originally purchased them, will be included in the Subcontractors totals.
- C. The Contractor shall furnish the form list of subcontractors with his bid including the estimated amount of each subcontract. Additionally, a duplicate copy of each subcontract, including lower tier subcontracts, shall be delivered to the Public Works Director upon award of the project and prior to the issuance of the Notice to Proceed.

CONTRACTOR'S REPRESENTATIVE AND EMERGENCIES

MAG Specifications, Section 105.5, including: Plans and specifications to successful bidder clause in the "Information for Bidders" in this set of specifications.

CONTRACTOR AND SUBCONTRACTOR RECORDS

- A. The Contractor shall keep at the work site a copy of the Contract Documents and shall at all times give the Public Works Director access thereto.
- B. The Notice Inviting Bids, Information for Bidders, Special Conditions, Specifications, Plans, and all supplementary documents are intended to be complete and complementary and to prescribe a complete work. If any omissions are made of information necessary to carry out the full intent and meaning of the contract documents, the Contractor shall immediately call the matter to the attention of the Public Works Director for furnishing of detailed instructions. In case of discrepancies, the Specifications shall govern over the plans. Figured dimensions shall govern over scaled dimensions.
- C. Any drawings or plans listed anywhere in the Specifications or Addenda thereto shall be regarded as a part thereof and of the Contract. Anything mentioned in these Specifications and not indicated on the plans, or anything indicated on the plans and not mentioned in these Specifications, shall be in the same force and effect as if indicated or mentioned in both.

- D. The Contractor, subcontractors and all suppliers shall keep and maintain all books, papers, records, files, accounts, reports, bid documents with back-up data, including electronic data, and all other material relating to the contract and project for three years following completion and acceptance of the work. All records shall be accurately maintained in accordance with generally accepted accounting principles and practices uniformly and consistently applied in a format that will permit audit. The Public Works Director or his authorized representative(s) shall have access at all reasonable times to all applicable records of the Contractor and the records of the Contractor's subcontractors.

The Contractor and Subcontractors shall preserve all such materials for a period of three years after all payments to the Contractor or subcontractors, or until the final resolution of all claims made by the Contractor or subcontractor on this contract, whichever is later. The Contractor and subcontractors shall make all of the above materials available to the Public Works Director for auditing, inspection and copying and shall produce such materials upon written request at the office of the Public Works Director located at 433 N. Virginia St., Prescott Arizona.

The Contractor shall insert the above requirement in each subcontract, purchase order, lease agreement, or other document under which goods or services are provided for the performance of this contract and shall also include in all subcontracts a clause requiring subcontractors to include the above requirement in any lower-tier subcontract, purchase order, lease agreement or document under which goods or services are provided for the performance of this contract.

ADDENDA, REVISIONS AND SUPPLEMENTARY DRAWINGS

- A. The work shall conform to such other drawings relating thereto as may be furnished by the City prior to the opening of proposals, and to such drawings in the explanation of details or minor modifications as may be furnished from time to time during construction, including such minor modifications as the Public Works Director may consider necessary during the prosecution of the work.
- B. Scaled dimensions shall not be used in the construction of the work.

ERROR AND OMISSIONS

The written dimensions, calculations and quantities on the plans are presumed to be correct, but the Contractor shall be required to check carefully all dimensions, calculations and quantities before beginning work. If any errors or omissions are discovered, the Public Works Director shall be so advised in writing and will make the proper corrections. If the Contractor claims that any such errors or omissions should change the cost of any Pay Item or the construction as identified in the plans, the Contractor shall also submit to the Public Works Director a written proposed Contract Amendment. Any such adjustments made by the Contractor that are claimed to change the cost of any Pay Item or the construction as identified in the plans, without prior review and acceptance of a proposed Contract Amendment, shall be at the Contractor's own risk. The settlement of any complications or disputed expenses arising from a Contractor's adjustment shall be borne by the Contractor at his own expense.

CHARACTER OF WORKMEN

MAG Specifications, Section 108.6.

SUSPENSION OF WORK

- A. The Public Works Director shall have the authority to suspend the work wholly or in part, for such period as he may deem necessary, due to unsuitable weather, or to such other conditions as are considered unfavorable for the suitable prosecution of the work, or for such time as he may deem necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provisions of the Contract. The Contractor shall immediately comply with the written order of the Public Works Director to suspend work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as reviewed and accepted in writing by the Public Works Director.
- B. In case of suspension of work for any cause whatsoever, the Contractor shall be responsible for all materials and shall properly store them if necessary and shall provide suitable drainage and erect temporary structures where necessary.
- C. If the performance of all or any portion of the work is suspended or delayed by the Public Works Director in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the contractor shall submit to the Public Works Director, in writing, a request for an adjustment within seven (7) calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.
- D. Upon receipt, the Public Works Director will evaluate the contractor's request. If the Public Works Director agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the Public Works Director will make an adjustment (excluding profit) and modify the contract in writing accordingly. The contractor will be notified of the Public Works Director's determination whether or not an adjustment of the contract is warranted. In the event an adjustment of the contract is warranted a contract amendment shall be executed by both parties evidencing mutual agreement to same.
- E. No contract adjustment will be allowed unless the contractor has submitted the request for adjustment within the time limits prescribed.
- F. No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

DELAYS AND EXTENSION OF TIME

MAG Specifications, Section 108.7, including:

- A. It is the Contractors responsibility to establish construction methods and a construction schedule, which will facilitate the completion of work required by this Contract within the contract period and with full consideration for the season during which the work is scheduled. Judgment as to hazardous conditions shall be made by the Public Works Director.
- B. To receive consideration for an extension of time, a request must be made in writing to the Public Works Director stating the reason for said request, and such request must be received by the Public Works Director as soon as reasonably practicable when the contractor has knowledge or should have known of the delay causing event, condition or circumstances, but in no event later than immediately following the end of the delay-causing condition. The extension of time

allowed shall be as determined by the Public Works Director and approved by the City. In setting the Contract time, it has been assumed that up to five (5) working days may be lost as a result of weather conditions which will slow down the normal progress of work; therefore no extensions in contract time will be allowed for the first five (5) working days lost due to bad weather conditions. An extension of time may be granted by the City after the expiration of the time originally fixed in the Contract or as previously extended, and the extension so granted shall be deemed to commence and be effective from the date of such expiration.

- C. Any extension of time shall not release the sureties upon any bond required under the Contract. Extensions of time in and of themselves will not be a basis for a request of additional compensation by the Contractor.
- D. Any delays in this project, or extensions of time which may be granted, shall not entitle the Contractor to any additional compensation or monies whatsoever, including but not limited to compensation for loss of anticipated profits, extended overhead, unabsorbed home office overhead, or any other payments, unless expressly agreed to by the City in a duly executed and approved contract amendment.

PAYMENT FOR DELAY

MAG 109.8 except as modified hereafter:

109.8.2, (B) Any compensation paid to the Contractor shall be in accordance with the General Conditions, Payment to Contractors, section of this Contract.

109.8.3 Extension of Contract Time: For any such delays, the contract time will be adjusted in accordance with the General Conditions, Delays and Extension of Time, section of this Contract.

TERMINATION FOR BREACH OF CONTRACT

MAG Specifications, Sections 108.10 and 108.11, including: The foregoing provisions are in addition to and not in limitation of any other rights or remedies available to the City.

METHODS AND EQUIPMENT

MAG Specifications, Section 108.6, including: The methods and equipment adopted by the Contractor shall be such as will secure a satisfactory quality of work and will enable the Contractor to complete the work in the time agreed upon. The selection and use of these methods and equipment is the responsibility of the Contractor.

DATE OF ACTUAL COMPLETION

The date upon which the project will be considered as complete shall be that date upon which the work is accepted by the City.

FINAL ACCEPTANCE

MAG Specifications, Section 105.15 (B), including:

- A. After all work under the Contract has been completed, as determined by the Public Works Director, the Public Works Director will recommend in writing to the City that final acceptance of the entire work under this Contract be made as of the date of the Public Works Director final inspection. The City will make final acceptance promptly after receiving the Public Works Director's recommendation.

- B. Partial Acceptance may be given upon substantial completion of the work at the sole discretion of the Public Works Director in accordance MAG 105.15 and the paragraph entitled PARTIAL ACCEPTANCE OF WORK in these General Conditions.
- C. For the purpose of this section, Substantial Completion shall mean that stage in the progress of the Work where the Work or designated portion is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use with only minor work items or cleanup items remaining to be accomplished. Partial Acceptance shall not be given for incomplete major work items nor minor work items affecting public health and safety.
- D. Contract Time accounting and/or Assessment of Liquidated Damages shall be suspended on the date of Partial Acceptance and the Contractor shall complete all remaining work items necessary for Final Acceptance within 30 calendar days of the date of Partial Acceptance. The City shall withhold release of retention until all items under the contract have been completed and Final Acceptance has been issued.

SAFETY, HEALTH AND SANITATION PROVISIONS

MAG Specifications, Section 107.5, including:

- A. The Contractor shall provide suitable and adequate sanitary conveniences for the use of all persons employed on the project. All sanitary conveniences shall conform to the regulations of the public authority having jurisdiction over such matters. At the completion of the project, all such sanitary conveniences shall be removed and the premises left in a sanitary condition.
- B. On all projects, with respect to sanitation facilities, for which Federal funds are allocated, the Contractor shall cooperate with and follow directions of representatives of the Public Health Service and the State. State and County public health service representatives shall have access to the work wherever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and inspection.

TRAFFIC CONTROL

Traffic control is the responsibility of the Contractor and shall be in accordance with MAG Specifications, Section 401. The Contractor shall submit to the City of Prescott, for approval, a traffic control plan for all activities connected with the proposed work.

WATER

- A. The Contractor shall supply adequate, pure cool drinking water with individual drinking cups for the use of employees on this construction. The quality of drinking water shall meet the "Standards for Public Water Supplies" specified in the State Health Department Code.
- B. It shall be the responsibility of the Contractor to provide and maintain, at his own expense, an adequate supply of water for his use for construction and to install and maintain necessary supply connections and piping for same. Before final acceptance of the completed project, all temporary connections and piping installed by the Contractor shall be removed.
- C. The Contractor shall apply for a fire hydrant meter for all construction water used if the Contractor desires to obtain water from the City of Prescott distribution system at any point. All contractors requesting construction water from the City must submit a Construction Water Meter Application to the Water Distribution Department. A \$1,000 deposit will be required for hydrant meters. If construction water use occurs during the months of May through September the Contractor shall also include a dust abatement program. Potable water may not be allowed for

dust abatement during these months. Potable water can be used to process embankment fill and base materials year round. However, contractors are encouraged to use treated effluent for construction activities. The City of Prescott has two outlets for effluent, the Sundog Wastewater Treatment Plant and the Airport Wastewater Treatment Plant. The City will provide metered standpipes for effluent at both plants. The Contractor will be required to estimate daily and total potable/effluent water usage for the project as identified on the Construction Water Meter application. The Contractor will be responsible for all costs associated with obtaining and delivering construction water.

PROTECTION OF WORK

MAG Specifications, Section 107.10.

CLEANUP AND DUST CONTROL

MAG Specifications, Sections 104.1.3 and 104.1.4, including: Salvage material shall be stored at areas designated by the Public Works Director.

GUARANTEE OF WORK

MAG Specifications, Section 108.8, shall apply, but modify: Guarantee period is two (2) years. During the two year (2 year) guarantee period, should the Contractor fail to remedy defective material and/or workmanship, or to make replacements within five (5) calendar days after written notice by the City, it is agreed that the City may make such repairs and replacements and the actual cost of the required labor and materials shall be chargeable to and payable by the Contractor.

CONTINGENCIES

All loss or damage arising from obstruction or difficulties which may be encountered in the prosecution of the work, from the action of the elements, or from any act or omission on the part of the Contractor or any person or agent employed by him shall be borne by the Contractor.

NOTICE AND SERVICE THEREOF

Any notice to the Contractor from the City relative to any part of this Contract shall be in writing and considered delivered and the service thereof completed when said Notice is posted, by first class mail, to the said Contractor at his last given address, or delivered in person to said Contractor or his authorized representative on the work.

PROJECT MEETINGS

- A. It shall be the responsibility of the Contractor to conduct weekly meetings to be attended by representatives of Subcontractors, utilities, the Public Works Director and other interested parties for the purpose of keeping the project on schedule and to provide for necessary coordination of the work of the various parties. The Contractor shall take minutes at each meeting for distribution to all attendees the following week. The minutes shall be of sufficient detail to accurately recount the meeting discussion, including but not limited to progress, work schedule, submittals and certifications, utilities, construction issues, contract changes, safety and traffic control, action items, resolved and unresolved issues.
- B. Additionally the Contractor shall furnish the Public Works Director with written weekly project status reports at the beginning of each weekly project meeting. The report shall cover the work of the preceding work week and shall include the following for each week.
 1. A comprehensive daily list of the Contractor's men and equipment performing the work on the jobsite.

2. A comprehensive daily list of Contractor's subcontractors' men and equipment, if any, performing the work on the jobsite.
3. A brief description of the work performed by the Contractor and Contractor's subcontractors, if any.
4. The estimated percentage of each portion of the work performed for the period together with the total percentage of each portion of the work performed to the date of the report.
5. A detailed summary of each work stoppage, if any, occasioned by the City of Prescott, other contractors, or other designated reasons, which were beyond the contractor's control.
6. Comments or exceptions to prior weekly meeting minutes shall be addressed at each subsequent construction meeting.

CONSTRUCTION SCHEDULE

Per MAG Specifications, Section 108.4 and Section 108.5, including:

- A. The Construction schedule shall indicate the time of starting and completing each major phase of the project and such intermediate phases as will serve for well-defined control points. The schedule shall be of sufficient detail to define the Critical Path for project completion. It shall also indicate the scheduled receipt of major items of equipment and the items of equipment installation dates of which is critical to the scheduled progress of the project. Two week look-ahead schedules will be provided by the contractor at each weekly construction meeting. The comprehensive project schedule shall be updated and submitted monthly. Such updates shall include and accurately reflect additional work, changes in the work, delays to individual items of work and reasons therefore along with the extent of delay and any other items affecting the progress of the project.
- B. Failure by the contractor to provide the weekly/monthly updates will result in the City withholding an amount equal to 5% of the monthly pay estimate relative to the billing period in which the schedule updates are to be provided. Said 5% withholding will be retained by the City until the required schedule updates are submitted by the Contractor, reviewed by the City and found to be current. When the schedule updates are determined to be in conformance with the provisions herein the 5% retainer will be released with the next monthly payment.
- C. The construction schedule shall serve as an index of progress prosecution as contemplated by the Contractor. In the event the actual construction progress varies substantially from the scheduled progress, the Public Works Director will require and the Contractor shall be required, within ten (10) calendar days written notice, to provide a revised construction schedule, giving in detail the particular changes in production as estimated by the Contractor to complete the work within the specified Contract Time. Time is of the essence in this regard.

ACCIDENT PREVENTION

MAG Specifications, Section 107.5 and 107.6 including:

- A. Machinery, equipment and other hazards shall be guarded or eliminated in accordance with the safety provisions of the Manual of Accident Prevention in Construction published by the Associated General Contractors of America, and the requirements of the Occupational Safety and Health Administration.

- B. First aid facilities and information posters conforming at least to the minimum requirements of the Occupational Safety and Health Administration shall be provided in a readily accessible location or locations.
- C. The Contractor shall make all reports as are, or may be, required by the Engineer or any authority having jurisdiction, and permit all safety inspections of the work being performed under this Contract. Before proceeding with any construction work, the Contractor shall take all the necessary action to comply with all provisions for safety and accident prevention. In the event the Contractor fails to comply with said safety provisions or directions of the Public Works Director, the Public Works Director without prejudice to any other rights of the City, may issue an order stopping all or any part of the work.
- D. Thereafter, a start order for resumption of the work may be issued at the discretion of the Public Works Director when in his opinion the defection from safety requirements has been corrected. The Contractor shall make no claim for an extension of time or for compensation or damages by reason of or in connection with such work stoppage.

CONSTRUCTION FACILITIES

All construction hoists, elevators, scaffolds, stages, shoring, and similar temporary facilities shall be of ample size and capacity to adequately support and/or move the loads to which they will be subjected. All railings, enclosures, safety devices, and controls required by law or for adequate protection of life and property shall be provided.

TEMPORARY FACILITIES

The Contractor shall provide all temporary facilities and utilities required for prosecution of the work; protection of employees and the public; protection of the work from damage by fire, weather or vandalism; and such other facilities as may be specified or required by any legally applicable law, ordinance, rule, or regulation.

WARNING DEVICES AND BARRICADES

Per MAG Specifications, Section 107.7.

HAZARDS IN PUBLIC RIGHT-OF-WAY

Per MAG Specifications, Section 107.7.

HAZARDS IN PROTECTED AREAS

Excavations on project sites from which the public is to be excluded shall be marked or guarded in a manner appropriate for the hazard.

PROTECTION OF EXISTING ITEMS

The Contractor shall protect all existing structures, trees, shrubs, and other items on the project site that are to be preserved, by substantial barricades or other devices commensurate with the hazard, from injury or destruction by vehicles, equipment, workmen, or other agents.

PROJECT SECURITY

The Contractor shall make adequate provision, subject to the approval of the Public Works Director, to protect the project and Contractor's facilities from fire, theft, and vandalism, and the public from unnecessary exposure to injury.

FIRE EXTINGUISHER

At least one (1) fire extinguisher, rated at least 2A, shall be provided on the job site.

OFF-SITE ROADS

Except as otherwise shown or specified, off-site access roads shall be adequately maintained, graded-earth roads. Such roads shall be built only in the public right-of-way or easements obtained by the City. If the Contractor elects to build along some other alignment, he shall obtain, without additional cost to the City, necessary rights-of-way or easements.

NOISE ABATEMENT

In inhabited areas, particularly residential, operations shall be performed in a manner to minimize unnecessary noise generation. Particular consideration shall be given to noise generated by repair and service activities during the night hours in residential areas. No repair or service activities shall be conducted between the hours of 6:00 p.m. and 7:00 a.m.

DRAINAGE CONTROL

In excavation, fill, and grading operations, care shall be taken to disturb the pre-existing drainage pattern as little as possible. Particular care shall be taken not to direct drainage water onto private property or into streets or drainage ways inadequate for the increased flow.

PROJECT CLOSE-OUT

It is the intent of these Specifications and Contract Documents that the Contractor shall deliver a complete and operable facility capable of performing its intended functions and ready for use. The City shall withhold Final Payment and release of retention until ALL of the following items have been completed:

- A. Completion of all work, including punch-list items and Final Acceptance of the work by the City.
- B. Submittal by Contractor of final pay estimate, which shall show the amount of work performed according to the Contract and approved by the City.
- C. Submittal by the Contractor of all Project Record Documents, including As-Built drawings, operation and maintenance manuals, and other records as referenced herein.
- D. Submittal by Contractor of CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS & CERTIFICATION OF COMPLETION & WARRANTIES.
- E. Closeout of any and all permits issued to the Contractor by the City or any other agency for the work included in the project.
- F. Submittal by Contractor of EPA SWPPP Notice of Termination (if applicable).

WASTE DISPOSAL, GRADING AND MATERIAL STORAGE

- A. The Contractor shall provide for the disposal of all surplus materials, waste products, debris, etc., and shall make necessary arrangements for such disposal. The Contractor shall obtain written permission from property owners(s) prior to disposing of any surplus materials, waste products, debris, etc., on private property, and shall also obtain the approval of the Public Works Director prior to such disposal.
- B. The Public Works Director will not approve the filling of ditches, washes, drainage ways, etc., which may in his opinion create water control problems.

- C. The Public Works Director will not approve disposal operations, which will, in his opinion, create unsightly and/or unsanitary nuisances.
- D. The Contractor shall maintain the disposal site(s) in a reasonable condition of appearance and safety during the construction period as required by the Public Works Director. Prior to final acceptance of the project, the Contractor shall have completed the leveling and cleanup of the disposal site(s) to the satisfaction of the Public Works Director.
- E. The Contractor shall obtain a grading permit or any other permit required by the City, Yavapai County or any other county, or State or federal rules, regulations, laws, ordinances, or any other regulatory authority for all construction operations of the Project, including but not limited to the following:
 - 1. Areas disturbed by the Contractor, including staging areas, borrow areas, waste areas, or material storage areas, located within the City limits that are subject to -any requirements of the City Code or City Land Development Code, including but not limited to Section 6.7 – Site Disturbance, Grading and Restoration Standards, of the City of Prescott Land Development Code; Section 9.6 – Site Disturbance and Grading Permit, or Chapter 16-2: DRAINAGE REGULATIONS;
 - 2. Areas outside of the City limits that are subject to the requirements of Yavapai County for any activities described in this section, “WASTE DISPOSAL;”
 - 3. The disposal of waste material on private property dependent upon site specific conditions at the waste area(s) and characteristics of the fill in accordance with Paragraph 1. The fees for a permit for this activity shall not be waived; said fees are incidental to the appropriate bid item(s);
 - 4. The staging or material storage area(s) that:
 - a. Are not City owned property on the project, or
 - b. Require clearing or grubbing in excess of 10,000 sf.
 Fees for a permit(s) for this activity shall not be waived; said costs are incidental to the appropriate bid item(s).
 - 5. Site disturbances for infrastructure improvements on City owned property not within the right-of-way for which the disturbance is greater than 50 cubic yards of material or in excess of 10,000 square feet. The associated fees for grading permits for this activity on City owned property shall be waived.

PROJECT RECORD DOCUMENTS

- A. The Contractor shall maintain at the site, available to the City and Engineer, one (1) copy of all Drawings, Specifications, Addenda, approved Shop Drawings, Change of Orders, and other modifications in good order and marked to record all changes made during construction. These shall be delivered to the City upon completion of the Project or the earlier termination of the parties' contract.
- B. The contractor shall maintain any and all documentation to substantiate all costs on the project, including but not limited to those items included in “Force Account” computations, computations reflecting the actual cost of work on the project and computations substantiating any claimed increases or additional costs incurred in the project by the contractor, and shall make those records available to the City (or provide copies thereof to the City) within 24 hours of request by the City. The failure of the Contractor to maintain and produce the foregoing documentation will

preclude the Contractor from being entitled to any additional payments for any additional work in question.

CONTROL OF WORK

ABBREVIATIONS

MAG Specifications, Section 101.1, including abbreviations as shown on the Plans.

AUTHORITY AND DUTIES OF INSPECTOR

Per MAG Specifications, Section 105.9, including:

- A. An inspector is to be assigned to the project by the City to monitor the project and to keep the Public Works Director informed as to the progress of the work and the manner in which it is being done. Additionally, the inspector will call the Contractor's attention to any non-conformance with the Plans and Specifications. He will not be authorized to approve or accept any portion of the work or to act as foreman for the Contractor. Inspection will be done on an as needed or on-call basis.
- B. The inspector will exercise such additional authority only as may from time to time be delegated to him by the Public Works Director.

INSPECTION

MAG Specifications, Section 105.10, including:

Inspection is to be done by the City of Prescott Public Works Department. The Contractor shall furnish the Public Works Director with every reasonable facility for ascertaining whether or not the work as performed is in accordance with the requirements and intent of the Specifications and Contract. If the Public Works Director requests it, the Contractor at any time before acceptance of the work shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standards required by the Specifications. Should the work thus exposed or examined prove acceptable, the uncovering or removing and the replacing of the covering or making good of the part removed will be paid for as provided under CHANGES IN THE WORK, but should the work so exposed or examined prove unacceptable, the uncovering or removing and the replacing of the covering or making good of the parts removed shall be at the Contractor's expense. Inspection or supervision by the Public Works Director shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor's foreman and superintendent.

AUTHORITY OF THE ENGINEER

MAG Specifications, Section 105.1 with the following exception: References to "the Engineer" shall mean Public Works Director.

PLANS

- A. The Contract Plans consist of general drawings. These indicate such details as are necessary to give a comprehensive idea of the construction contemplated. All authorized alterations affecting the requirements and information given on the Contract Plans shall be in writing. The Contract Plans shall be supplemented by such working or shop drawings prepared by the Contractor as are necessary to adequately control the work. No change shall be made by the Contractor in any working or shop drawing after it has been accepted by the Public Works Director.

- B. The Contractor shall keep a copy of the Plans and Specifications at the job site, and shall at all times give the Public Works Director access thereto. Any drawings or plans listed in the Detailed Specifications shall be regarded as a part thereof and the Public Works Director will furnish from time to time such additional drawings, plans, profiles, and information as he may consider necessary for the Contractor's guidance.
- C. All authorized alterations affecting the requirements and information given on the accepted plans shall be in writing. No changes shall be made of any plan or drawing after the same has been accepted by the Public Works Director except by consent of the Public Works Director in writing.

CONFORMITY WITH PLANS AND ALLOWABLE DEVIATIONS

MAG Specifications, Section 105.3.

COORDINATION AND INTERPRETATION OF PLANS AND SPECIFICATIONS

MAG Specifications, Section 105.4, including:

- A. In the event of any doubt or question arising regarding the true meaning of these Specifications, Special Provisions, or the Plans, reference shall be made to the Public Works Director, whose decision thereon shall be final. In the event of any discrepancy between any drawing and the figures written thereon, the figures shall be taken as correct.
- B. In the event of there being a conflict between one contract document and any of the other contract documents the document highest in precedence shall control and supersede the document which is contrary to it. The order of precedence of the contract documents is as follows:
 - 1. Supplemental Agreements, the last in time being the first in precedence.
 - 2. The formal Contract.
 - 3. Notice Inviting Bids.
 - 4. Information for Bidders.
 - 5. Special Provisions.
 - 6. Technical Specifications.
 - 7. Plans.
 - 8. General Conditions.
 - 9. Contractor Proposal.

ORDER OF WORK

- A. When required by the Contract Documents, the Contractor shall follow the sequence of operations as set forth therein.
- B. Full compensation for conforming to such requirements will be considered as included in the prices paid for contract items of work and no additional compensation will be allowed therefore.

CONSTRUCTION STAKES, LINES AND GRADES

MAG Specifications, Section 105.8.

REMOVAL OF UNACCEPTABLE AND/OR UNAUTHORIZED WORK

MAG Specification, Section 105.11.

MAINTENANCE DURING CONSTRUCTION

MAG Specifications, Section 105.12.

COOPERATION BETWEEN CONTRACTORS

The City of Prescott reserves the right at any time to contract for and perform other additional work on or near the work covered by the contract.

When separate contracts are let within the limits of any one project, each contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.

The Contractor shall arrange his work and shall place and dispose of the materials being used so as not to interfere with the operation so the other Contractors within the limited of the same project. He shall join his work with that of others in an acceptable manner and shall perform it in proper sequence to that of others.

The City of Prescott will not honor any claim for extra compensation due to delays, extra work, or extension of time caused by any other Contractors working within the limits of the same project.

COORDINATION OF WORK

- A. Prior to starting construction, the Contractor shall submit their construction schedule to the Public Works Director for approval.
- B. It shall be the responsibility of the Contractor to maintain overall coordination of the project. Based on the general contract construction schedule prepared in accordance with these Specifications, the Contractor shall obtain from each of his Subcontractors a similar schedule and shall be responsible for all parties maintaining these schedules or for coordinating changes necessitated by unforeseen difficulties.

LINES AND GRADES.

All work under this Contract shall be built in accordance with the detailed scope of work.

MATERIALS AND WORKMANSHIP

GENERAL

MAG Specifications, Section 106.1, including:

- A. Where equipment, materials, or articles are referred to in the Specifications as "or equal", or "equal to" any particular standard, the Public Works Director shall decide the question of equality.
- B. Wherever any standard published specification is referred to, the latest edition or revision, including all contract amendments, shall be used unless otherwise specified. Materials of a general description shall be the best of their several kinds, free from defects, and adapted to the use for which provided. The physical characteristics of all materials not particularly specified shall conform to the latest standards published by the American Society for Testing and Materials, where applicable. All material shall be new and of the specified quality and equal to the accepted samples, if samples have been submitted.

- C. All work shall be done and completed in a thorough, workmanlike manner notwithstanding any omission from these Specifications or from the Plans; and it shall be the duty of the Contractor to call the Public Works Director's attention to apparent errors or omissions and request instructions before proceeding with the work. The Public Works Director may, by appropriate instructions, correct errors and supply omissions, which instructions shall be binding upon the Contractor as though contained in the original Specifications or Plans.

SUBSTITUTION OF MATERIAL OR EQUIPMENT

MAG Specifications, Section 106.4, including: Requests relative to substitutions for materials or equipment specifically designated on the Plans or in the Specifications shall be made in writing, and such requests shall be accompanied by complete data on which the Public Works Director can make determination on the merits of the proposed substitution. The written request shall state how the product proposed for a substitution compares with or differs from the designated product in composition, size, arrangement, performance, etc., and in addition, the request shall be accompanied by documentary evidence of equality in price and delivery or evidence of difference in price and delivery. Data on price shall be in the form of certified quotations from suppliers of both the designated and proposed items. All items accepted for substitution shall be subject to all applicable provisions of the Specifications. Should substitution be allowed under the foregoing provisions, and should the item subsequently prove to be defective or otherwise unsatisfactory for the service for which it was intended, the Contractor, shall without cost to the City, and without obligation on the part of the Public Works Director, replace the item with the material originally specified.

FABRICATED MATERIALS AND SHOP DRAWINGS

Fabricated materials and shop drawings shall be handled as set forth in the Special Conditions.

MATERIALS FURNISHED BY THE CITY

MAG Specifications, Section 106.8.

STORAGE AND HANDLING OF MATERIALS

MAG Specifications, Section 106.5 and 106.6, including: Protection of materials and equipment stored on the site shall be the responsibility of the Contractor. The City reserves the right to direct the Contractor to provide proper means of protection for materials if such is deemed advisable by the Public Works Director; however, the exercise of or failure to exercise this right shall not be deemed to relieve the Contractor of his primary responsibility for protecting the material and equipment. The Contractor shall provide suitable warehouses or other adequate means of protection for such if the materials and equipment require storage and protection. The Contractor shall store and care for the materials and equipment in the most suitable manner to protect them from distortion, rain, dust, or other damage. The cost of replacing any material or equipment damaged in storage shall be borne by the Contractor, and the fact that material or equipment has been damaged after partial payment has been made shall not relieve the Contractor of his primary responsibility. No motor shall be left uncovered or unprotected.

REJECTED MATERIALS

MAG Specifications, Section 106.7.

UTILITIES

MAG Specifications, Section 107.11.

DRIVEWAYS AND WALKS

Inconvenience caused by digging across driveways and sidewalks shall be kept to a minimum by restoring the serviceability of the drive or sidewalk as soon as possible. Before blocking driveways, the Contractor shall notify the property owner. The Contractor shall replace or repair any damage done to driveways and walks to not less than the condition existing prior to the Contractor's work. If it is necessary to leave an excavation open across driveways or sidewalks, the Contractor shall provide temporary relief in the form of steel plates over the excavation. Direct access shall be provided at all times to fire engine houses, fire hydrants, hospitals, police stations, and at all other agencies or services where emergencies may require immediate access to same.

ROADS AND FENCES

Streets and roads subjected to interference by the prosecution of this work shall be kept open and maintained by the Contractor until the work is completed.

TREES AND SHRUBBERY

- A. All trees and shrubbery within the right-of-way or easements shall be protected by the Contractor insofar as practicable.
- B. In the event shrubbery or trees must be trimmed, or removed, the Contractor shall notify the property owner to do so within a reasonable time prior to construction. All shrubbery or trees not removed by the property owner shall be trimmed or removed by the Contractor and hauled from the job at the Contractor's expense.
- C. All trees, shrubs, hedges, brush, etc. designated on the Plans, or by the Public Works Director for removal, shall be completely removed and disposed of as indicated on the Plans or as specified by the Public Works Director.

IRRIGATION DITCHES AND STRUCTURES

The Contractor shall contact the owners of any ditches, irrigation lines, and appurtenances, which interfere with the work and shall make arrangements for dry- up or scheduling of water deliveries. The Contractor shall be liable for any damage due to irrigation facilities damaged by his operations and shall repair such damaged facilities to an "equal or better than" original condition.

SUBMITTALS

Per MAG Specifications, Section 105.2, including:

- A. In ample time for each to serve its proper purpose and function, the Contractor shall submit to the Public Works Director such schedules, reports, drawings, lists, literature samples, instructions, directions, and guarantees as are specified or reasonably required for construction, operation, and maintenance of the facilities to be built and/or furnished under this Contract.
- B. Shop drawings and data shall be submitted to the Public Works Director in such number of copies as will allow him to retain four (4) copies of each submittal. The submittal shall clearly indicate the specific area of the Specifications or Plans for which the submittal is made. The additional copies received by him will be returned to the Contractor's representative at the job site. The Public Works Director's notations of the action, which he has taken, will be noted on one (1) of these returned copies.
- C. The above drawings, lists, prints, samples, and other data shall become a part of the Contract and a copy of the same shall be kept with the job site plans and the fabrications furnished shall be in conformance with the same.

MATERIALS AND EQUIPMENT SCHEDULES

Drawings of minor or incidental fabricated materials and/or equipment may not be required by the Public Works Director. The Contractor shall furnish the Public Works Director tabulated lists of such fabrications, showing the names of the manufacturers and catalog numbers, together with samples of general data as may be required to permit determination by the Public Works Director as to their acceptability for incorporation in the work.

QUALITY CONTROL

- A. All material shall be of the specified quality and equal to the approved samples, if samples have been submitted. All work shall be done and completed in a thorough, workmanlike manner, notwithstanding any omission from these Specifications or from the Plans; and it shall be the duty of the Contractor to call the Public Works Director's attention to apparent errors or omissions and request instructions before proceeding with the work. The Public Works Director may, by appropriate instructions, correct errors and supply omissions, which instructions shall be as binding upon the Contractor as though contained in the original Specifications or Plans.
- B. Materials which will require testing and inspection at the place of origin shall not be shipped prior to such testing and inspection.

SAMPLES AND TESTS

Per MAG Specifications, Sections 106.2 and 106.3, including:

- A. At the option of the Public Works Director, the source of supply of each of the materials shall be approved by him before the delivery is started and before such material is used in the work. Representative preliminary samples of the character and quality prescribed shall be submitted by the Contractor or producer of all materials to be used in the work for testing or examination as desired by the Public Works Director.
- B. Sieves used in determining the grading of samples of aggregates, select material, and other graded materials, shall conform to ASTM Designation E 11-81.

LEGAL RELATIONS AND RESPONSIBILITY

LAWS TO BE OBSERVED

MAG Specifications, Section 107.1.

ALIEN LABOR

The Contractor shall comply with the Immigration Reform and Control Act of 1996.

CONTRACTOR IMMIGRATION WARRANTY

The Contractor understands and acknowledges the applicability to it of the American with Disabilities Act, the Immigration Reform and Control Act of 1986 and the Drug Free Workplace Act of 1989. The following is only applicable to construction contracts: The Contractor must also comply with A.R.S. § 34-301, "Employment of Aliens on Public Works Prohibited", and A.R.S. § 34-302, as amended, "Residence Requirements for Employees".

Under the provisions of A.R.S. § 41-4401, Contractor hereby warrants to the City that the Contractor and each of its subcontractors ("Subcontractors") will comply with, and are contractually obligated

to comply with all Federal Immigration laws and regulations that relate to their employees and A.R.S. § 23-214(A) (hereinafter “Contractor Immigration Warranty”).

A breach of the Contractor Immigration Warranty shall constitute a material breach of this Contract and shall subject the Contractor to penalties up to and including termination of this Contract at the sole discretion of the City.

The City retains the legal right to inspect the papers of any Contractor or Subcontractors employee who works on this Contract to ensure that the Contractor or Subcontractor is complying with the Contractor Immigration Warranty. Contractor agrees to assist the City in regard to any such inspections.

The City may, at its sole discretion, conduct random verification of the employment records of the Contractor and any of subcontractors to ensure compliance with Contractor’s Immigration Warranty. Contractor agrees to assist the City in regard to any random verification performed.

Neither the Contractor nor any Subcontractor shall be deemed to have materially breached the Contractor Immigration Warranty if the Contractor or Subcontractor establishes that it has complied with employment verification provisions prescribed by sections 274A and 274B of the Federal Immigration and Nationality Act and the E-Verify requirements prescribed by A.R.S. § 23-214, Subsection A.

The provisions of this Article must be included in any contract the Contractor enters into with any and all of its subcontractors who provide services under this Contract or any subcontract. “Services” are defined as furnishing labor, time or effort in the State of Arizona by a contractor or subcontractor. Services include construction or maintenance of any structure, building or transportation facility or improvement to real property.

COMPLIANCE WITH FEDERAL AND STATE LAWS

The Contractor understands and acknowledges the applicability to it of the American with Disabilities Act, the Immigration Reform and Control Act of 1986 and the Drug Free Workplace Act of 1989. The following is only applicable to construction contracts: The Contractor must also comply with A.R.S. §34-301, “Employment of Aliens on Public Works Prohibited”, and A.R.S. §34-302, as amended, “Residence Requirements for Employees”.

Under the provisions of A.R.S. §41-4401, Contractor hereby warrants to the City that the Contractor and each of its subcontractors (“Subcontractors”) will comply with, and are contractually obligated to comply with, all Federal Immigration Laws and regulations that relate to their employees and A.R.S. §23-214(A) (hereinafter “Contractor Immigration Warranty”).

A breach of the Contractor Immigration Warranty Shall constitute a material breach of this Contract and shall subject the Contractor to penalties up to and including termination of this Contract at the sole discretion of the City.

The City retains the legal right to inspect the papers of any Contractor or Subcontractors employee who works on this Contract to ensure that the Contractor or Subcontractor is complying with the Contractor Immigration Warranty. Contractor agrees to assist the City in regard to any such inspections.

The City may, at its sole discretion, conduct random verification of the employment records of the Contractor and any of the subcontractors to ensure compliance with Contractor Immigration Warranty. Contractor agrees to assist the City in regard to any random verification performed.

Neither the Contractor nor any of the Subcontractors shall be deemed to have materially breached the Contractor Immigration Warranty if the Contractor or Subcontractor establishes that it has complied with the employment verification provisions prescribed by sections 274A and 274B of the Federal Immigration and Nationality Act and the E-Verify requirements prescribed by A.R.S. §23-214, Subsection A.

The provisions of this Article must be included in any contract the Contractor enters into with any and all of its subcontractors who provide services under this Contract or any subcontract. "Services" are defined as furnishing labor, time or effort in the State of Arizona by building or transportation facility or improvement to real property.

EMPLOYMENT PROVISIONS

Subject to existing law, and regulations, illegal or undocumented aliens will not be employed by the Contractor for any work or services to be performed pursuant to this contract. The Contractor will ensure that this provision is expressly incorporated into any and all Subcontracts or subordinate agreements issued in support of this contract. Contractor agrees to comply with the provisions of section 274A(a)(1)(A) and

274A(a)(2) of the Immigration and Nationality Act (8 U.S.C. 1324a(a)(1)(A), 1324a(a)(2)) (the "INA employment provisions"), and any amendments thereto, prohibiting the unlawful employment of illegal or undocumented aliens. Under the terms of this agreement, the contractor shall not knowingly hire or employ for any work performed pursuant to this contract any workers or employees not lawfully authorized to work under the provisions of the Immigration and Nationality Act or any other applicable federal or state laws. Violation of the provisions of this section shall be deemed a material breach of this contract.

INDEPENDENT CONTRACTOR STATUS.

It is expressly agreed and understood by and between the parties that the Contractor is being retained by the City as an independent contractor, and as such the Contractor shall not become a City employee, and is not entitled to payment or compensation from the City or to any fringe benefits to which other City employees are entitled. As an independent contractor, the Contractor further acknowledges that he is solely responsible for payment of any and all income taxes, FICA, withholding, unemployment insurance, or other taxes due and owing any governmental entity whatsoever as a result of this Agreement. As an independent contractor, the Contractor further agrees that he will conduct himself in a manner consistent with such status, and that he will neither hold himself out nor claim to be an officer or employee of the City by reason thereof, and that he will not make any claim, demand or application to or for any right or privilege applicable to any officer or employee of the City, including but not limited to workmen's compensation coverage, unemployment insurance benefits, social security coverage, or retirement membership or credit.

NONDISCRIMINATION

The Contractor, with regard to the work performed by it after award and during its performance of this contract, will not discriminate on the grounds of race, color, national origin, religion, sex, disability or familial status in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor will not participate either directly or indirectly in the discrimination prohibited by or pursuant to Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Section 109 of the Housing and Community Development Act of 1974, the Age Discrimination Act of 1975, the Americans With Disability Act (Public Law 101-336,

42 U.S.C. 12101-12213) and all applicable federal regulations under the Act, and Arizona Governor Executive Orders 99-4, 2000-4 and 2009-09 as amended.

AMERICANS WITH DISABILITIES ACT

Contractor shall comply with all federal, state and local nondiscrimination statutes in the operation, implementation and delivery of, including state and federal civil rights and disabilities laws. In particular the contractor shall ensure that the City of Prescott's obligations for program, facility and service accessibility in Title II of the Americans with Disabilities Act are complied with in all activities arising under this contract, and shall hold harmless the City for any and all loss, including but not limited to damages, costs or expenses, incurred or arising from any alleged violations of expenses, incurred or arising from any alleged violation of the Americans with Disabilities Act under the auspices of this contract unless resulting from an intentional or actual negligent act of the City and its employees. Failure to comply with the nondiscrimination or accessibility requirements herein shall be construed as nonperformance and may result in termination of funding, civil action or both.

PERMITS, TAXES AND LICENSES

MAG Specifications, Section 107.2, including: Except as otherwise provided in the Specifications, it is the duty of the Contractor to procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work. All applicable permits, licenses and taxes are the responsibility of the Contractor.

PATENTED DEVICES, MATERIALS AND PROCESSES

MAG Specifications, Section 107.3.

SURVEY LAND MONUMENTS

Survey land monuments and property marks shall not be moved or otherwise disturbed by the Contractor until an authorized agent of the agency having jurisdiction over the land monuments or property marks setting, has witnessed or otherwise referenced their location, and only then in accordance with the requirements of the agency having jurisdiction. Any monuments displaced by the Contractor shall be replaced at the Contractors expense.

PROTECTION OF PERSON AND PROPERTY

MAG Specifications, Sections 107.5 through 107.10, including:

The Contractor shall confine all aspects of his operations within the construction limits as identified in the project plans. Should the Contractor contemplate the use of any private property adjacent to the project, beyond the project limits, for materials and equipment storage or to perform any work, he shall first obtain the written permission of the property owner. The Contractor shall provide a copy of the owner's permission to enter the property and for what purpose to the Public Works Director prior to entering the property. The Contractor will be fully and solely responsible for any and all adverse impacts and / or damages caused by his operations on private property and the settlement of all claims pertaining thereto. Upon completion of his operations the Contractor shall obtain a signed release from the property owner pertaining to his activities on the owner's property and provide a copy of that document to the Public Works Director. The failure of the Contractor to comply with these provisions will result in the retention of some portion of Contractor funds, payable under the contract, until such claims are resolved.

PROTECTION OF ANTIQUITIES

MAG Specifications, Section 107.4.

PERSONAL LIABILITY OF PUBLIC OFFICIALS

MAG Specifications, Section 107.13.

NON-RESPONSIBILITY OF THE CITY

Indebtedness incurred for any cause in connection with this work must be paid by the Contractor, and the City is hereby relieved at all times from any indebtedness or claim other than payments under terms of the Contract.

NO WAIVER OF LEGAL RIGHTS

MAG Specifications, Section 107.14.

PROPERTY RIGHTS IN MATERIAL

Nothing in the Contract shall be construed as vesting in the Contractor any right of property in materials used after they have been attached or affixed to the work or the soil and accepted. All such materials shall become the property of the City upon being so attached or affixed and accepted.

PAYMENT TO CONTRACTORS

GENERAL

- A. The basis of payment for construction of this project shall be unit prices for all work actually performed in accordance with the Specifications and Scope of work, and shall include all labor and materials incorporated in the completed work.
- B. Upon final inspection and acceptance of the work, the City will pay the Contractor the amount earned under the Contract, as provided herein.

PARTIAL PAYMENT

- A. Once each month, the City Project Inspector and the Contractor's Superintendent shall meet or as necessary to jointly measure all work items under the contract to determine pay quantities for each pay period. Quantities of work items shall be documented on the respective plan sheets and separately in tabular fashion with Station to Station measurements noted to assure there is no duplication of payment for work performed. Measurements will be for work actually completed. No projections for expected completion of work will be allowed.
- B. Contractor shall submit partial payment requests in a format approved by Public Works together with the City of Prescott Pay Request Application and Certification for Payment (form provided by Public Works) or equal, subject to approval by the Public Works Director.
- C. The City will retain ten percent (10%) of the amount of each such estimate to insure full and faithful compliance with the terms of these contract documents. After fifty percent (50%) of the work on this project has been completed, one half (1/2) of the amount retained shall be paid to the Contractor provided the Contractor is making satisfactory progress on the contract and there is no specific clause or claim requiring a greater amount to be retained. After the contract is fifty percent (50%) completed, only five percent (5%) of the amount of any subsequent progress payments made under the contract shall be retained provided the Contractor is making satisfactory progress on the project, except that if at any time the City determines satisfactory progress is not being made, ten percent (10%) retention shall be reinstated for all progress payments made under the contract subsequent to the determination.

- D. The Contractor shall furnish a detailed breakdown showing unit prices and quantities for use in preparing the monthly estimate. No partial payment will be made until this breakdown is presented by the Contractor and has been reviewed and accepted by the Public Works Director. Green-lined plan sheets shall be submitted with each monthly pay request illustrating the line item quantities constructed for the period. The green-lined plan sheets and pay estimate spreadsheets must reconcile with one another.
- E. No partial payment for job site delivered material will be made.

PAYMENT

For and in consideration of the faithful performance of the work, the City will pay to the Contractor the amount earned less retention as computed from the actual quantities of work performed under the Contract and to make such payment in the manner and at the time(s) specified, as follows:

- A. After final completion under the Contract, the Contractor shall render to the City a final estimate, which shall show the amount of work performed according to the Contract.
- B. Before the final payment will be made, the Contractor shall satisfy the City by affidavit that all bills for labor and materials incorporated in the work have been paid. See CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS & CERTIFICATION OF COMPLETION & WARRANTIES, page 22. Additionally, the Contractor shall furnish lien waivers for all completed labor and materials consumed during the project.
- C. Final payment constituting the entire unpaid balance of the Contract sum (including all retained moneys) shall be paid by the City to the Contractor within sixty (60) days after completion of the work or filing the Notice of Completion of the Contract unless a specific written finding by the City of the reasons justifying the delay in payment is provided to the Contractor, and further provided that all work has been completed, the Contract fully performed, and any final certificate has been issued by the City's architect, if any. Prior to the final payment to the Contractor, the City shall deduct therefrom any and all unpaid privilege, license and other taxes, fees and any and all other unpaid moneys due the City from the Contractor, and shall apply to those moneys to the appropriate account. Contractor shall provide to the City any information necessary to determine the total amount(s) due. The quantities appearing in the Bidding Schedule are approximate only, and are prepared for the comparison of bids. Payment to the Contractor will be made only by actual quantities of work performed and accepted in accordance with the requirements of the Contract. Only the items listed in the Bidding Schedule are pay items. The scheduled quantities of work to be done and materials to be furnished may each be increased, decreased or omitted.
- D. **Final project As-built plans shall verify line item quantities constructed for the project by individual plan sheet.** Contractor shall submit final payment request in a format approved by Public Works together with the City of Prescott Pay Request Application and Certification for Payment (form provided by Public Works).

PAYMENT OF ITEMS IN PROPOSAL

- A. Only those items listed in the Proposal under Bidding Schedule are pay items.
- B. Compensation for all work necessary for the completion of the project or improvement shall be included by the bidder in the price bid for the items shown in the Proposal.

CHANGES IN THE WORK

- A. The City, without invalidating the Contract, may order extra work, make changes by altering, or delete any portion of the work as specified herein, or as deemed necessary or desirable by the

Public Works Director. All such work shall be executed under the conditions of the original Contract except that any claim for extension of time and additional cost caused thereby shall be adjusted at the time of ordering such change or extra work.

- B. Extra work shall be that work not indicated or detailed on the Plans and not specified. Such work shall be governed by all applicable provisions on the Contract Document.
- C. In giving instructions, the Public Works Director shall have authority to make minor changes in the work, not involving extra cost, and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Public Works Director, and no claim for an addition to the total amount of the Contract shall be valid unless so ordered. It is mutually understood that it is inherent in the nature of municipal construction that some changes in the Plans and Specifications may be necessary during the course of construction to adjust them to field conditions, and that it is of the essence of the Contract to recognize a normal and expected margin of change. The Public Works Director shall have the right to make such changes, from time to time, in the Plans, in the character of the work, and in the termination of the completion of the work in the most satisfactory manner without invalidating the Contract.
- D. Any change ordered by the Public Works Director which involves installation of work essential to complete the Contract, but for which no basis of payment is provided for herein, said payment therefore shall be subject to agreement prior to said work being performed.
- E. The prices agreed upon and any agreed upon adjustment in Contract time shall be incorporated in the written order issued by the Public Works Director, which shall be written so as to indicate acceptance on the part of the Contractor as evidenced by his signature. In the event prices cannot be agreed upon, the City reserves the right to terminate the Contract as it applies to the items in questions and make such arrangements as it may deem necessary to complete the work, or it may direct the Contractor to proceed with the items in question to be reimbursed pursuant to the unit prices in the Contractor's bid or on a force account basis as provided hereinafter, at the City's option.

FORCE ACCOUNT

The compensation for force account work performed by the Contractor shall be approved by the Public Works Director in the following manner:

- A. LABOR: The Contractor shall provide monthly certified payroll reports for all labor and for foremen in direct charge of the specific operations. The Contractor will be compensated as follows:
 - 1. The actual cost of wages paid by him but at rates not to exceed those for comparable labor currently employed on the project as determined by Public Works Director.
 - 2. The actual cost of social security taxes and unemployment compensation insurance. There will be no payment for Fringe Benefits unless mandated by Federal Law on Federally funded projects.
 - 3. An amount equal to fifteen percent (15%) of the actual cost of wages and other costs listed above to cover the Contractor's profit and overhead.
 - 4. In case work is performed by a subcontractor, the said fifteen percent (15%) will be added only once to the actual cost of the work, however, the Contractor may add five percent (5%) to the Subcontractor's price to cover his own overhead and supervision.

- B. **TOOLS AND EQUIPMENT:** For any special or heavy equipment, the use of which has been authorized by the Public Works Director, except for small tools and manual equipment, the Contractor shall be reimbursed his actual cost of rental, not to exceed the latest Schedule of Equipment Rental Rates published by the Arizona Department of Transportation. In the event that any of the equipment to be used is not shown in said schedule, the rental rate for such equipment shall be as agreed upon in writing before the work is started. No percentage shall be added to equipment rental rates. In the event said special or heavy equipment is owned by the Contractor, he shall be compensated only for the actual hours said equipment is required for the work under Force Account on the job site, at a rate not to exceed the latest ADOT. Schedule of Equipment Rental Rates.
- C. **MATERIALS:** For all materials accepted by the Public Works Director and used in the work the Contractor shall be paid the actual cost of such material, including transportation charges, to which cost shall be added a sum equal to fifteen percent (15%) thereof.
- D. **SUPERVISION OVERHEAD and HOME OFFICE OVERHEAD:** No allowance shall be made for general superintendence. The cost of supervision and all overhead is presumed to be included in the fifteen percent (15%) added in accordance with the above.
- E. **RECORDS:** The Contractor's representative and the Public Works Director shall compare the records of the work performed as ordered on a force account basis at the end of each day on which such work is performed. Copies of these records shall be made on suitable forms provide for this purpose and signed by both the Public Works Director and the Contractor's representative. All claims for work done on a force account basis shall be certified and submitted to the Public Works Director by the Contractor, and such statements shall be filed with the Public Works Director not later than the fifth (5th) day of the month following that in which the work was actually performed.
- F. **BONDS AND INSURANCE:** The Contractor shall be paid the actual cost for additional bonding and insurance pertaining to Force Account work when the Contractor can provide evidence of additional payment for premiums on required payment and performance bonds. No duplication of payment for Contractors costs associated with labor costs above will be allowed.
- G. The Public Works Director authorized representative is in charge of Force Account Work and has the authority to direct which labor and equipment will be used, to suspend operations, and to refuse to pay for any labor or equipment, which he feels is not doing productive work.

EXTRA WORK

New or additional work will be classed as extra work when determined by the Public Works Director that such work is not covered by the Contract.

CONTRACT AMENDMENT

The value of such work or change shall be determined and paid for with a Contract Amendment in one of the following ways according to the Contract Amendment Procedure set down by the Public Works Department, City of Prescott, and at the option of the City:

- A. As may be mutually agreed upon by the City and the Contractor.
- B. By unit prices in accordance with the Contractor's bid.
- C. By lump sum based upon the Contractor's estimate and the Public Works Director's review and acceptance of the estimate.

D. By Force Account in accordance with the requirements of that Section.

E. The Contractor shall do such extra work and furnish material and equipment therefore upon receipt of an accepted Contract Amendment or other written order of the Public Works Director. In no case shall work be undertaken without written notice from the Public Works Director to proceed with the work. In absence of such Contract Amendment or other written order of the Public Works Director, the Contractor shall not be entitled to payment for any extra work. All contract amendments must be approved by the Public Works Director. Contract Amendments over \$10,000.00 must be approved by City Council.

F. In the event that the Contractor and the City cannot agree on the compensation to be paid to the Contractor prior to the issuance of a Contract Amendment, then and in that event the City has the option of terminating the Contract with the Contractor or directing the Contractor to proceed and to receive compensation pursuant to the Force Account provisions herein. In the event that this Contract is terminated by the City pursuant to this subsection, the Contractor shall only be paid for those services performed to date of the City's Notice of Termination, said payment to be based upon the unit prices as set forth in the Contractor's bid. In no event shall the Contractor be entitled to additional compensation for lost profits, mobilization or de-mobilization costs, loss of anticipated profits, extended overhead, unabsorbed home office overhead, or any other payments other than for work actually performed as based upon unit prices. In the event that there are no unit prices pertaining to work in question, then and in that event the Contractor's compensation for early termination pursuant to this subsection shall be based upon Force Account as here-in-before described.

G. It is expressly agreed that in the event of a Contract Amendment, any compensation due the Contractor shall be set forth in the Contract Amendment, and shall be considered full and complete payment (if any) for any and all work related costs, including but not limited to labor, materials, equipment, supervision, field office overhead, extended home office overhead, unabsorbed home office overhead, taxes, bonds, insurance and profits. Additionally, the Contractor shall not be entitled to any additional compensation based upon a Contract Amendment (or the accumulation of contract amendments) unless specifically set forth in that Contract Amendment.

H. In the event that the contractor submits a proposed Contract Amendment, the Public Works Director shall have ten (10) days after receipt of the Contractor's written proposed Contract Amendment to either accept or agree to the Contract Amendment under the above provisions or deny such proposed Contract Amendment. If necessary to assess the proper purpose and function of a Contractor's proposed Contract Amendment, because of the proposed Contract Amendment's complexity or scope, the Public Works Director may either accept and agree to the Contract Amendment or deny such proposed Contract Amendment under the above provisions beyond such ten (10) day period and for an additional reasonable period commensurate with the nature of the proposed Contract Amendment. The failure of any party to take any action within the time periods or in the manner specified in the subparagraph shall be deemed a waiver of that party's right to recover for such delay in acting.

CLAIMS FOR EXTRA WORK

If the Contractor claims that any instructions involve extra cost under this Contract, he shall give the Public Works Director written notice thereof within forty-eight (48) hours after the receipt of such instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property, and the procedure shall then be as provided for under CHANGES IN THE WORK. No such claim shall be valid unless so made.

PARTIAL ACCEPTANCE OF WORK

- A. After completion of certain units of work under this Contract, including all testing and other preparation necessary for operation of the unit by the City as herein specified, but prior to final project completion, provisions may be made for partial acceptance in writing by the City for these certain units only. The units to be included for partial acceptance prior to final project completion will be noted at the time of the pre-construction conference in accordance with Contractor's schedule, or by written notice to the Contractor at the earliest possible time.
- B. The guarantee period for these units shall commence with the date of final acceptance of the entire project by the City. Full payment for these units will not be made until final acceptance of the total work is made.
- C. Acceptance of any portion of the project prior to acceptance of the whole shall not be construed as absolving the Contractor of responsibility for any item of construction or incidental work included in the original Contract.

NOTIFICATION OF CHANGED CONDITIONS, FORMAL PROTEST AND DISPUTE RESOLUTION

MAG 110 as modified herein:

110.2.2(A) and 110.3.2, add the following: "In providing the information required by this section, the Contractor shall provide specific factual detail as to each item and show the methods of calculating each item."

110.3.1 shall be amended as follows:

Level I shall mean the Public Works Project Manager as appointed by the Public Works Director

Level II shall mean the Public Works Division Manager as appointed by the Public Works Director

Level III shall mean the Public Works Director

In the event of litigation, the parties hereby agree to submit to a trial before the Court. The Contractor further agrees that this provision shall be contained in all subcontracts related to the project, which is the subject of this Agreement.

The parties hereto expressly covenant and agree that in the event of litigation arising from this Agreement, neither party shall be entitled to an award of attorney fees, either pursuant to the Contract, pursuant to ARS Section 12-341.01 (A) and (B), or pursuant to any other state or federal statute. The Contractor further agrees that this provision shall be contained in all subcontracts related to the project that is the subject of this Agreement.

110.4 The last sentence of the first paragraph shall read: "The arbitration of claims shall be conducted either in Prescott or Phoenix, Arizona as agreed to by the parties, or if the parties cannot agree, to be determined by the arbitrator, taking into consideration the convenience and costs to the parties and their witnesses."

Delete the last two sentences of the section and replace with: "The decision or award of the arbitrator shall be nonbinding."

Any resolution of a dispute in accordance with the applicable sections of MAG110 and this Contract which causes the Contract amount to be exceeded by \$10,000.00 or more shall not be final until approved by the City Council.

PUBLICITY RELEASES

The Contractor and their subcontractors and their suppliers, if any, shall not reveal to others through literature, brochures, or other types of publicity releases any information regarding the work or the Contractor's activities or participation on the project without prior written approval from the City of Prescott Public Works Director. Any and all jobsite photographs taken by the Contractor, subcontractor or others must be processed in duplicate form with copies provided to the Public Works Director. No project photographs shall be released to others without prior written approval of the Public Works Director.

SCOPE OF WORK

INTENT OF PLANS AND SPECIFICATIONS

- A. The intent of the Specifications and Scope of Work is to prescribe a complete work for the CITY OF PRESCOTT: FY 2016 Pavement Rehabilitation Project which the Contractor shall perform in a manner acceptable to the City Public Works Director and in full compliance with the terms of the Contract.
- B. Unless otherwise specified in the Special Conditions, the Contractor shall furnish all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and incidentals, including, but not limited to, dust and traffic control measures, and to perform all work involved in executing the contract in a satisfactory and workmanlike manner within the specified time.

PROJECT DESCRIPTION AND LOCATION. The FY 2016 Pavement Rehabilitation Project generally consists of milling and asphalt pavement overlay and pavement resurfacing. The mill and overlay is on Gateway Boulevard, Gail Gardner Way, and Golden Hawk Drive. The resurfacing includes multi-layer and single layer coats of rubber chip seals, microsurfacing, and slurry seal coats. The streets and areas designated for resurfacing include Hassayampa Village Lane, Horizon Hills, and College Heights. The project includes the placement of a conventional asphalt chip seal coat on previously unpaved streets and alleys. The project includes the adjustment of utility covers to finish grade and the restoration of disturbed traffic striping.

TIME OF COMPLETION

- A. The Contractor shall commence the work under this contract on or before the tenth (10th) calendar day after receiving written Notice to Proceed from the Owner. The Contractor shall fully complete all work under this contract within fifty (50) calendar days beginning with the calendar day of receipt of the Notice to Proceed. The Contractor shall at all times during the continuance of the Contract prosecute the work with such work force and equipment as is sufficient to complete the project within the time specified.
- B. Project Milestones are estimated to be as follows:

Award of Contract	July 28, 2015
Pre-Construction Meeting	August 10, 2015
Notice to Proceed	Week of August 17, 2015
Expected Completion Date	October 5, 2015

All milestones are “earliest” dates for planning purposes only, and shall not represent any contractual commitment whatsoever on the part of the City.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	3
100.1 SCOPE OF WORK.....	3
100.2 STANDARD SPECIFICATIONS & DRAWINGS.....	3
100.3 GENERAL NOTES.....	4
100.4 PUBLIC RELATIONS	5
104.1.4 CLEANUP AND DUST CONTROL	7
104.1.5 FINAL CLEANING UP	7
104.3 MOBILIZATION	7
105.6 COOPERATION WITH UTILITIES	8
105.8 CONSTRUCTION STAKING.....	9
105.16 AS-BUILT PREPARATION AND COORDINATION	10
106 CONTROL OF MATERIALS.....	11
106.2 CONTRACTOR QUALITY CONTROL	11
106.9 QUALITY ACCEPTANCE TESTING.....	14
107.6 PUBLIC CONVENIENCE AND SAFETY	14
107.11 STORM WATER POLLUTION PREVENTION PLAN (SWPPP).....	15
108.4 CONSTRUCTION SCHEDULE	17
109.11 CONTRACT ALLOWANCE.....	17
200.1 DEWATERING	17
201 CLEARING AND GRUBBING.....	17
205.1 EARTHWORK AND ROADWAY EXCAVATION.....	17
205.2 REMOVAL OF UNSUITABLE SUB-GRADE MATERIAL AND BACKFILL WITH ABC.....	18
300.1 SAW CUT	18
301 SUB-GRADE PREPARATION.....	19
310 UNTREATED BASE	19
310.5 AGGREGATE BASE COURSE	19
317 MILLING OF ASPHALTIC CONCRETE PAVEMENT	20
321 ASPHALT CONCRETE PAVEMENT	20
330.1 ASPHALT CHIP SEAL	26
340.1 CONCRETE CURB, GUTTER, AND CURB TERMINATIONS	28
340.2 CONCRETE SIDEWALK, SIDEWALK LANDING AND RAMP.....	29
345 ADJUST MANHOLES, VALVES AND CLEANOUTS.....	29
350.1 REMOVAL OF EXISTING IMPROVEMENTS	30
370 RUBBER CHIP SEAL.....	30
401 TRAFFIC CONTROL	37
402.2 THERMOPLASTIC PAVEMENT MARKINGS	39
402.3 TEMPORARY STRIPING	39
402.4 PERMANENT PAVEMENT MARKINGS	39
404 LOOP DETECTORS	40
405.3.1 RESET PROPERTY PINS.....	40
405.3.2 SURVEY MONUMENT	40
710 ASPHALT CONCRETE.....	40

TECHNICAL SPECIFICATIONS

100.1 SCOPE OF WORK

A. INTENT OF PLANS AND SPECIFICATIONS

1. The intent of the Specifications and Scope of Work is to prescribe a complete work for the FY 2016 Pavement Rehabilitation Project which the Contractor shall perform in a manner acceptable to the City of Prescott and in full compliance with the terms of the Contract.
2. Unless otherwise specified in the Special Conditions, the Contractor shall furnish all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and incidentals, including, but not limited to, dust and traffic control measures, and to perform all work involved in executing the contract in a satisfactory and workmanlike manner within the specified time.
3. The "Engineer" shall be that person or his designees employed by or contracted by the City Of Prescott responsible for all aspects of the project and with the authority to make revisions to and approve changes to the plans or specifications.

B. PROJECT DESCRIPTION AND LOCATION

1. The FY 2016 Pavement Rehabilitation Project scope generally includes milling and asphalt pavement overlay and pavement resurfacing. The mill and overlay is on Gateway Boulevard, Gail Gardner Way, and Golden Hawk Drive. The resurfacing includes multi-layer and single layer coats of rubber chip seals, microsurfacing, and slurry seal coats. The streets and areas designated for resurfacing include Hassayampa Village Lane, Horizon Hills, and College Heights. The project includes the placement of a conventional asphalt chip seal coat on previously unpaved streets and alleys. The project includes the adjustment of utility covers to finish grade and the restoration of disturbed traffic striping

C. TIME OF COMPLETION

1. The Contractor shall commence the work under this contract on or before the tenth (10th) calendar day after receiving written Notice to Proceed from the Owner. The Contractor shall fully complete all work within fifty (50) calendar days in accordance with the date set forth in the Notice to Proceed. The Contractor shall at all times during the continuance of the Contract prosecute the work with such work force and equipment as is sufficient to complete the project within the time specified.

100.2 STANDARD SPECIFICATIONS & DRAWINGS

- A. Standard details and specifications for this project shall be the Central Yavapai County Governments Unified Construction Standards (YAG Standards), latest revision, in conjunction with the latest revisions of the Maricopa Association of Governments Standard Specifications and Details (MAG Standards), except as modified in the plans and by these technical specifications.
- B. Other standard specifications and details will be incorporated within the plans, project documents and technical specifications by reference, as necessary. These may include references to Maricopa Association of Governments Uniform Standard Details for Public Works Construction (MAG Standard Details Arizona Department of Transportation Standard Specifications and Standard Drawings for Road and Bridge Construction (ADOT Specifications or ADOT Standard Details), City of Prescott (COP) revisions to YAG Standards, and others.

100.3 GENERAL NOTES

- A. All construction shall conform to Central Yavapai County Governments Unified Construction Standards and Specifications (YAG Standards), latest revisions, unless modified on the plans, in conjunction with the latest revisions of the Maricopa Association of Governments Standard Specifications and Details (MAG Standards) unless specifically modified on the plans.
- B. It shall be the Contractor's responsibility to obtain copies of YAG, MAG, and City of Prescott (COP) Standards and Specifications as well as all other standards and specifications necessary to completely and accurately interpret the plans.
- C. All plans signed by the Public Works Director are null and void one year from date of signature if construction has not started.
- D. All quantities shown on plans are not verified by the Engineer. The Contractor shall verify all quantities shown and make his bid based upon those verifications. If any discrepancy in quantities is found, Contractor shall notify the Engineer of such no later than 24 hours prior to bid opening.
- E. A City of Prescott Public Works Department permit will be required for all off-site construction and construction within the public right of way.
- F. It is the sole responsibility of the Contractor to obtain, at his own expense, such permits as are required from the appropriate agencies.
- G. The Public Works Department shall be notified a minimum of 24 hours prior to beginning any construction in the public right of way at (928) 777-1640.
- H. Inspection is to be done by the City of Prescott Public Works Department.
- I. Any work performed without the knowledge of the City of Prescott inspector or his representative is subject to removal and replacement of same, to be done at the Contractor's expense.
- J. All work and materials, which do not conform to the specifications, are subject to removal and replacement at the Contractor's expense.
- K. Approval of a portion of the work in progress does not guarantee its final acceptance. Testing and evaluation may continue until the written final acceptance of a complete and workable unit.
- L. The City of Prescott may suspend the work by written notice when, in its judgment, progress is unsatisfactory, work being done is unauthorized or defective, weather conditions are unsuitable, or there is a danger to the public health and safety.
- M. The Contractor shall provide sufficient men and equipment on the job at all times during construction to comply with specifications and to complete work.
- N. Contractor shall be responsible for construction surveying and layout.
- O. The Contractor shall notify "Blue Stake" at 811 or 1-800-782-5348 at least 48 hours prior to construction.
- P. It is the Contractor's responsibility to locate all underground pipelines, telephone and electric conduits and structures in advance of any construction and will observe all possible precautions to avoid any damage to such. The Engineer and/or City will not guarantee any locations as shown on these plans, or those omitted from it.
- Q. The Contractor is to uncover all existing lines being tied into and verify grades before any other construction.
- R. Arizona Department of Environmental Quality Requirements shall be complied with.
- S. All water lines shall be provided with 14-gauge single strand copper wire. Trace wire shall be subject to traceability test.
- T. Water/sewer separation shall be pursuant to AAC R-18-4-502C and YAG specifications.
- U. Water mains shall be subject to a pressure and leakage test in accordance with AWWA C-600 Standard.

- V. Water mains shall be disinfected in accordance with ADEQ Engineering Bulletin No. 8 "Disinfection of Water Systems".
- W. Operation of valves to be done by City personnel only.
- X. Ductile Iron Pipe to be installed per manufacturer's requirements.
- Y. All materials for water line construction shall meet AAC R-18-4-119.
- Z. Arizona Department of Environmental Quality requirements will apply when more stringent than YAG Standard Specifications -- more specifically where they pertain to maximum allowable sewer line/pressure sewer line exfiltration-infiltration rates.
- AA. Sewer line low-pressure air tests shall be done on 100% of all lines.
- BB. Sewer manholes exfiltration tests shall be done on 100% of all manholes. Vacuum testing in accordance with City of Prescott Standards may be used in lieu of exfiltration test.
- CC. Sewer line deflection tests shall be done on 100% of all lines.
- DD. Prior to project acceptance, the Contractor shall be responsible for providing the City of Prescott with DVD video of the entire sewer main installed. The video will be previewed and deemed acceptable by the City prior to project release.
- EE. Acceptance of the completed water/sewer system will not be given until 3 ml photo Mylar or Xerox graphic "as-built" reproducible plans have been submitted by a Registered Professional Engineer and approved by the Engineer.
- FF. Contractor shall warrant all work for a minimum of two years after formal acceptance of the work.

100.4 PUBLIC RELATIONS

Description:

The Contractor shall be required to furnish a private telephone line to be used solely for receiving incoming calls from local citizens with questions or complaints concerning construction operations or procedures. The Contractor shall be required to publish this telephone number and maintain a 24-hour answering service. The answering service shall be manned by Contractor personnel during all hours during the course of construction that there is work being performed on this project. The Contractor shall maintain a log of incoming calls, responses, and action taken, which shall be submitted to the Public Works Director weekly and on request.

The Contractor shall retain the services of a community relations organization for this project. The Contractor shall submit for approval, to the Public Works Director, the resume of the proposed community relations organization. Included in the resume shall be the names and credentials of the staff. The community relations organization shall be proactive and knowledgeable in the means and effectiveness of various notification techniques. The Public Works Director will rely on the organization's experience and suggestions in the presentation of information to the public. The Public Works Director will review the resume and possibly interview the organization. The Public Works Director will notify the Contractor within ten calendar days of the acceptability of the community relations organization. Upon notification by the Public Works Director of an acceptable community relations organization, the Contractor shall hire the organization.

The community relation organization's activities shall include, but not necessarily be limited to:

- a. Printing and distribution of public notices.
- b. Providing media news releases after review by the Public Works Director.
- c. Planning and attending other public meetings as required by the Public Works Director.
- d. Planning or otherwise participating in the Dedication Ceremonies as requested by the Public Works Director.
- e. Possess the means for the development and fabrication of newsletters, notices, posters and demonstration boards.

- f. Providing telephone "Hot Line" 24-hour service.

A pre-construction meeting will be scheduled between the Public Works Director and the Contractor to specifically address the hiring of a community relations organization. This meeting will be scheduled as soon as possible after the Award. The intent is to have a community relations organization on board prior to the pre-construction meeting, a meeting in which the community relations organization will have an important participatory role.

The community relations organization shall develop a community relations program. The program shall include but not necessarily be limited to:

- A. Distributing a pre-construction information letter to all residents, businesses, schools and churches within an area determined by the Public Works Director, which shall contain, as a minimum, the following information:
 - a. Name of contractor.
 - b. A 24-hour informational telephone number.
 - c. Brief description of project.
 - d. Names of project manager and superintendent (contractor).
 - e. Name of project engineer (Public Works Department).
 - f. Construction schedule including anticipated work hours.
 - g. Traffic regulations including lane restrictions.
 - h. Time and place for the pre-construction meeting. This notification shall be delivered a minimum of five working days prior to the meeting.
- B. Holding a pre-construction community meeting with affected neighbors, businesses, schools, churches, etc., as directed by the Public Works Director.
- C. Scheduling and conducting progress meetings, as required, with the affected business tenants and property owners.
- D. Printing and mailing of public notices and/or newsletters, including a list of the names, addresses and receipt of postage or delivery for recipients of these newsletters and/or notifications.
- E. Holding other public meetings as required by the Public Works Director.
- F. The community relations organization shall use the means (Items A through E) or others to inform the local citizens of operations which may create changes to the norm such as high noise levels, road closures, limited access, haul routes, changes to material delivery routes, unusual hours of construction, disruption of bus routes or changes to other passenger delivery/pick-up routes.
- G. Newsletters shall be distributed each month. A final draft shall be submitted to the Public Works Director for review and approved at least two days before the planned distribution. Each distribution area shall be approved by the Public Works Director. Each distribution shall include twelve copies for the Public Works Director.
- H. The community relations organization shall keep daily personnel time logs which shall include the name of the employee, date of work, amount of time worked, description of work performed and project number.

Method of Measurement and Basis of Payment:

The bid schedule includes an allowance for Public Relations for the purpose of encumbering funds to cover the cost of Public Relations. The amount of the allowance is determined by the Public Works Director and is not subject to individual bid pricing. All bidders shall incorporate the amount pre-entered in the bid proposal and shall reflect the same in the total bid for this project.

It shall be understood that this allowance item is an estimate only. The allowance shall not be used without approval of the Public Works Director, and in no case exceed the allowance.

Reimbursement for Public Relations shall be based on the community relations organization invoice cost, plus an allowable markup to the prime contractor of 15%, for those services approved by the Public Works

Director.

Pay Item: 100.4 Public Relations Allowance

104.1.4 CLEANUP AND DUST CONTROL

- A. The work under this item shall consist of applying water required for dust control per MAG Specifications and as modified herein.
- B. If in the opinion of the Public Works Director the Contractor fails to keep dust for his operation under control, the Public Works Director may order by written order suspension of operations until the situation is remedied. No time extension or additional costs will be allowed for this suspension.
- C. All contractors requesting construction water from the City must submit a Construction Water Meter Application to the Public Works Department. A \$1,000 deposit will be required for hydrant meters. If construction water use occurs during the months of May through September the Contractor shall also include a dust abatement program. Potable water may not be allowed for dust abatement during these months. Potable water can be used to process embankment fill and base materials year round. However, contractors are encouraged to use treated effluent for construction activities. The City of Prescott has two outlets for effluent, the Sundog Wastewater Treatment Plant and the Airport Wastewater Treatment Plant. The City will provide metered standpipes for effluent at both plants. The Contractor will be required to estimate daily and total potable/effluent water usage for the project as identified on the Construction Water Meter application. The Contractor will be responsible for all costs associated with obtaining and delivering construction water.
- D. No separate measurement or payment shall be made for dust control. This work shall be considered incidental and included in the unit price bid for construction of the appropriate contract pay items.

104.1.5 FINAL CLEANING UP

MAG Section 104.1.5 is supplemented as follows:

104.1.5.1 RESTORATION Requirements

- A. Upon completion of construction and before Final Acceptance can be made by the Engineer, the Contractor shall clean up each individual construction area to the satisfaction of the Engineer. Small trees, weeds, and brush, which were removed as part of construction work, shall be removed from the project site and properly disposed of. Existing landscape improvements, drainage ditches, etc., shall be restored in "like kind" so that the improvement is put back in as close to its prior state as possible. Restoration of incidental items impacted by construction activity shall be in accordance with MAG Section 104.1.3 and 104.1.4. All debris, broken pipe, concrete and other construction debris shall be removed from the project site and properly disposed. The Contractor shall restore each individual work site to grades existing before construction work, including wheel ruts and other scarring. No separate payment will be made for restoration of items impacted by the Contractor's construction operation and the cost of these items shall be included in the unit bid prices in the bid schedule.
- B. Mailboxes and traffic signs removed during construction shall be reinstalled in "like kind" and shall be considered incidental to the unit prices for utility work included in the bidding schedule.

104.3 MOBILIZATION

- A. Mobilization 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 office 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 the various items on the project site.

B. Measurement and Payment

Mobilization will be measured for payment by the lump sum bid as a single complete unit of work. Payment for mobilization will be made as provided herein which shall be full compensation for supplying and furnishing all materials, facilities, and services and performing all the work involved as specified above. The total amount allowed for mobilization during the life of the contract shall not exceed nine percent (9%) of the original contract amount. If the bid price exceeds this percentage the excess amount will be paid to the Contractor upon completion of the contract and nine percent of the contract amount shall be used to determine partial payments. Partial payments under this item will be made in accordance with the following provisions:

- C. The first payment of one third of the lump sum price for mobilization may be made provided that all submissions required under Sub-section 108.3 and elsewhere herein are submitted by the Contractor at the pre-construction conference to the satisfaction of the Engineer and when the Engineer has determined that a significant amount of equipment has been mobilized to the project site which will be used to perform portions of the project work.

The second payment of one third of the lump sum price for mobilization shall be made on the first estimate following completion of 13 percent of the contract.

The third payment of one third of the lump sum price for mobilization will be made on the first estimate following completion of 26 percent of the contract.

Pay Item: 104.3 Mobilization

105.6 COOPERATION WITH UTILITIES

MAG Section 105.6 is supplemented as follows:

105-6A Location of Underground Utilities

- A. Contractor shall contact Blue Stake within the time frame specified under Blue Stake law and request field location of underground utilities. At the time these locations have been marked and prior to the commencement of excavation within the affected area, the Contractor shall at his expense manually determine the exact location of all buried facilities.
- B. Contractor shall notify all affected utilities prior to the start of construction and shall ascertain the location of the various underground utilities either shown on the plans and/or as may be brought to his attention.
- C. Contractor shall perform all operations in accordance with Arizona Blue Stake law.
- D. Utility locations shown on the plans are approximate and based on drawings furnished by the respective utility. It shall be the Contractor's responsibility to protect all existing utilities. Should a utility conflict occur, the Contractor shall cooperate with the said utility to resolve the conflict. No claim for extra costs shall be made against the Owner for delays due to any utility conflict.
- E. If performance of the Contractor's work is delayed because the utility owners fail to relocate or adjust their facilities in a timely manner, the Contractor may file for an extension of time. To receive consideration, this request shall contain specific information as to the nature of the delay and the actual loss of time involved.
- F. Contractor shall assume full responsibility for damage to all marked utilities due to his operations and shall repair the damaged utilities in accordance with regulatory authority requirements at his own expense.

G. Measurement And Payment

1. No separate measurement and payment shall be made for Location of Underground Utilities. This work shall be considered incidental and included in the unit price bid for construction or installation of the

appropriate contract pay items.

105.8 CONSTRUCTION STAKING

- A. Construction staking shall be the responsibility of the CONTRACTOR. The control for the project is provided in the CONTRACT DOCUMENTS. The CONTRACTOR shall be held responsible for preservation of control monumentation. If any of the control monumentation have been carelessly or willfully destroyed or disturbed by the CONTRACTOR, the cost of replacing them will be charged against him and will be deducted from the payment of work.
- B. Staking shall be performed and certified by a Registered Land Surveyor in good standing with the Arizona State Board of Technical Registration.
- C. Field notes and record drawings shall be provided to the ENGINEER.
- D. The staking shall be performed in such a manner and frequency that the CONTRACTOR is able to construct the project in accordance with the plans and specifications. At a minimum, staking shall include
 - 1. Slope or limit stakes (TCE)
 - 2. Alignment of Pipeline
 - 3. Valves, bends, blow offs, air release valves, tracer wire stations, water meters and hydrant locations.
 - 4. Horizontal and vertical bend locations.
 - 5. Tank and appurtenances.
 - 6. Electrical, instrumentation and control facilities, including, but not limited to, antennae pole.
 - 7. Site improvements including, but not limited to, retaining walls, curbs, fencing, drainage, chain link fence enclosures, protection posts, gates, etc. The original grade of all retaining walls shall be surveyed and established prior to beginning any earthwork.
 - 8. Cross-sections will be required, at no additional expense to the City, should quantity disputes arise pertaining to the following: Earthwork, Sub-grade, ABC or Asphaltic Concrete.
 - 9. Curb stakes at all PC's, PT's, Vertical PI's (grade breaks), Transitions to and from Super Elevated sections and at 50 foot intervals.
 - 10. Blue top of Sub-grade and ABC at intervals specified for curb. Quarter crown blue tops shall be required when the typical section is four lanes or more without median curb.
 - 11. Other staking as needed to complete the work in conformance with the plans and specifications.
- E. The ENGINEER and the CONTRACTOR's Superintendent shall meet monthly or as necessary to jointly measure all work items under the contract to determine pay quantities for each pay period. Quantities of work items shall be documented on the respective plan sheets and separately in tabular fashion with Station to Station measurements noted to assure there is no duplication of payment for work performed. Measurements will be for work actually completed. No projections for expected completion of work will be allowed.
- F. All survey data will be international feet for horizontal and vertical, NAVD 88 for vertical and City of Prescott coordinates. Please refer to the City of Prescott Survey Datum Requirements below.

City of Prescott Survey Datum Requirements

Coordinate Units: International Feet
Distance Units: International Feet
Height Units: International Feet
Vertical Datum: NAVD 88

State Plane

Coordinate System: US State Plane 1983
Datum: (WGS 84)
Zone: Arizona Central 0202
Geoid Model: Geoid99 (Conus)

City of Prescott - Conversion from State Plane

Northing: (State Plane x 1.000329975) - 701,456.0090
Easting: (State Plane x 1.000329975) + 69,457.2499

State Plane - Conversion from City of Prescott

Northing: (City of Prescott + 701,456.0090) x 0.999670134
Easting: (City of Prescott - 69,457.2499) x 0.999670134

G. Measurement And Payment

1. The quantity of "Construction Staking" measured for payment shall be the lump sum bid by the CONTRACTOR. The contract unit price per lump sum paid for "Construction Staking" shall be full compensation for all labor, materials, and equipment to perform the construction staking as described in this section.

Pay Item: 105.8 Construction Staking

105.16 AS-BUILT PREPARATION AND COORDINATION

- A. As-built data and preparation will be performed by the ENGINEER. The CONTRACTOR shall notify the ENGINEER as required in this Section, provide access to the work and cooperate with the ENGINEER to accurately depict the as-built conditions. During the construction phase and prior to any backfilling or covering, the ENGINEER will survey the work for the purpose of as-built preparation. Surveying shall be performed and certified by a Registered Land Surveyor in good standing with the Arizona State Board of Technical Registration. The ENGINEER will supply all horizontal and vertical as-built data in ASCII format, including a northing, easting, elevation and description of all work completed under this contract. The CONTRACTOR shall aid the ENGINEER in determining and providing this information. As-built data shall include, but not be limited to all items noted below.
 1. The alignment of the waterline including all horizontal and vertical bends. If the waterline continues in a straight alignment for more than 100 feet, the waterline will be surveyed every 100 feet.
 2. Valves, bends, blow offs, air release valves, tracer wire stations, water meters, and hydrant

locations.

3. Tank and appurtenances
 4. Electrical, instrumentation, and control facilities, including, but not limited to, antennae pole.
 5. Site improvements, including, but not limited to, retaining walls, curbs, fencing, drainage, chain link fence enclosures, protection posts, gates, etc.
- B. Prior to backfilling or covering any work, the CONTRACTOR shall notify the ENGINEER 48-hours in advance and submit a completed "As-Built Request Form" located in Appendix II for the item of work. The minimum 48-hours notice time shall not include weekends or holidays. The notification shall be via e-mail to both the CITY and ENGINEER, and shall include the "As-Built Request Form" as an attachment.
- C. The CONTRACTOR must provide access for the ENGINEER to verify all as-built information prior to backfilling or covering. The CONTRACTOR shall not backfill or cover an item of work until verification has been completed by the ENGINEER. If an item of work is determined by the ENGINEER to be backfilled or covered prior to being recorded by the ENGINEER, the CONTRACTOR at the direction of the ENGINEER shall uncover the item of work at no additional cost to the OWNER.
- D. The CONTRACTOR shall maintain a redlined copy of the project plans including changes made in construction of the project. The redline copy shall be updated on a weekly basis in preparation for the weekly as-built field meeting. The CONTRACTOR shall provide the ENGINEER with a copy of the redline plans upon completion of the project.
- E. Weekly field meetings with the CONTRACTOR, ENGINEER and CITY shall occur to review As-Built information for conformance with the specifications. The CONTRACTOR shall provide the ENGINEER with a schedule of work items to be constructed in the upcoming 30 day period, including approximate dates of installation prior to backfilling or covering. The CONTRACTOR field redlines will be reviewed for notation of changes in the work. Missing, erroneous or deficient data must be corrected by the CONTRACTOR at no additional cost to the OWNER.
- F. **Measurement and Payment**
1. No separate measurement and payment shall be made for As-Built Preparation And Coordination. This work shall be considered incidental and included in the unit price bid for construction or installation of the appropriate contract pay items.

106 CONTROL OF MATERIALS

Contractor shall submit in writing all materials to be used in the project in accordance with ADOT Specification Section 106 and Subsection 730-4.

106.2 CONTRACTOR QUALITY CONTROL

- A. Quality control measures sufficient to produce materials and workmanship of acceptable quality are the responsibility of Contractor. Upon request Contractor shall provide factory certificates of compliance or analysis or both to the Public Works Director. The Contractor shall provide full-time asphaltic concrete laydown compaction testing and adequate plant control for each paving day. The Contractor shall provide an independent geotechnical firm to perform all soils and concrete testing, as required, per these specifications.
- B. The weekly reports shall state the type of work performed during the report period and other process control measures taken to assure quality. Type of work must be identified by activity, location, station, and offset, purpose of test, and any other relevant information that the Engineer needs to identify or replicate the quality control testing. Results of all tests, corrective actions, re-tests, and control charts shall be attached to the weekly reports. Although hand written documentation can be included, the quality control

report narrative and test results must be typed to insure that clear reproductions of the documents can be made. The report period shall end at midnight each Friday and the report shall be submitted to the Engineer no later than 5:00 pm of the following Wednesday. Payment in the amount of \$500.00 per report will be withheld for each individual report that is not delivered to the Engineer by the time and day specified above. Only one half of the withheld payments will be returned on the next regular project progress payment when the delinquent reports have been turned in and all of the above requirements have been met. Any report turned in more than 10 business days beyond the Wednesday due date will not be eligible for withheld payments to be returned.

Minimum Quality Control Sampling Guidelines (may not include all required testing)

MATERIAL TYPE	REQUIRED TEST	SAMPLING POINT	SAMPLING FREQUENCY	REQUIRED RESULT
Embankment	Proctor Optimum Moisture	In-Place	One per Soil Type	
	Compaction	In-Place	One per 500 LF of 8" lift	95% per ASTM D-698
Sub-grade	Proctor Optimum Moisture	In-Place	One per Soil Type	
	Compaction		One per 500 LF	95% per ASTM D-698
Agg. Base	Proctor Optimum Moisture	Crusher belt or Stockpile	At start of production, then as mtl. Changes	
	Compaction	In-Place	One per 500 LF of 6" lift	98% Per ASTM D-698
	Abrasion	Source	One per source	
	Plasticity Index		One per shift	Max. 6 per AASHTO T89 & T90
	Gradation		One per shift	
	Crushed Faces		One per shift	
	Asphalt Concrete PG 64-22			

	Bit. Mtl. Content		Two per day (3/day on 1st day)	
	Marshalls		Two per day	
	Rice		One per day	
MATERIAL TYPE	REQUIRED TEST	SAMPLING POINT	SAMPLING FREQUENCY	REQUIRED RESULT
	Voids, VMA		One per day	
	Compaction			95%
	Core		One per 1,000 SY	within 24 hours
Min. Agg.	Gradation		One per 1,200 tons	
	Crushed Faces		One per day	
	Sand Equivalent		One per day	45 or greater
	Abrasion		One	
Asphalt Rubber Concrete				
Open Graded Asphalt Rubber Concrete				
Asphalt Concrete		Stock pile		
Friction Course Asphalt Rubber	Gradation		One per day	
	Sand Equivalent		One per day	
	Crushed Faces		One per day	
	Flakiness Index		One per day	
Portland Cement Concrete				
	Air		each sample	5% +/- 1%
	Slump		each sample	max. 3.5"

Compression		3 per 50 CY per	1 @ 7 day
		YAG 725 Table 725	1 @ 28 day
			1 @ 60 day if failure

- C. No separate payment shall be made for Contractor Quality Control. This work shall be considered incidental and included in the unit price bid for construction or installation of the appropriate contract pay items. An independent geotechnical firm shall perform all quality control testing. The Contractor shall furnish copies of all test results to the City on a weekly basis.

106.9 QUALITY ACCEPTANCE TESTING

- A. The Engineer may provide quality acceptance sampling and testing. The number of tests and location of each shall be determined by the Engineer. The expense of the initial sampling and testing shall be paid for by the City. Additional sampling and testing required due to failure of the initial test(s) shall be accomplished as provided by the City and these additional expenses shall be deducted from moneys due Contractor.
- B. Contractor and the Engineer’s representative shall coordinate on a daily basis the following day’s work schedule and any testing that may be necessary. The Engineer’ quality acceptance testing will generally consist of (1) daily sampling and testing for asphalt extraction/gradation and Marshall density for each paving day; and (2) asphaltic concrete core drilling after placement to verify thickness and density. A minimum of one core per each 1,000 square yards of paving shall be randomly sampled by the Contractor’s quality control lab after marking by the City inspector.
- C. Construction quality acceptance testing performed by the City of Prescott does not relieve the Contractor or the manufacturer of materials produced for the Contractor, of the obligation to perform and document quality control testing of materials and workmanship.
- D. No separate payment shall be made for Quality Acceptance Testing or any related work performed by Contractor.

107.6 PUBLIC CONVENIENCE AND SAFETY

- A. Maintenance of Traffic
1. Contractor shall at all times conduct his/her work as to ensure the least possible obstruction to traffic.
 2. Unless otherwise provided, the road, while being improved shall be kept open to all traffic by Contractor. When so requested by Contractor and approved by the Public Works Director, Contractor may by-pass traffic over an approved detour route. Regardless of whether it is through or local traffic, Contractor shall keep the portion of the project being used by traffic in such condition that traffic will be adequately accommodated.
 3. Contractor shall also provide and maintain in a safe condition temporary approaches or crossings and intersections with trails, roads, streets, businesses, parking lots, driveways residences, garages and farms; however, Contractor will not be required to remove snow.
 4. Before any detour is opened to traffic, the Public Works Director shall have been satisfied that traffic is able to proceed in a safe manner.
 5. Contractor shall bear all expense of maintaining traffic over the road being improved as well as constructing, maintaining and subsequently removing Contractor requested detours, approaches, crossings, intersections and other features as may be necessary without any direct compensation.
- B. Access to Businesses/Residences

Contractor shall provide to all residents and businesses affected by the project, access to one of their driveways at all times except as modified by the following: If Contractor finds it unavoidable to temporarily close off access for any time, the residents/businesses affected shall be contacted a minimum of 48 hours in advance and an alternate procedure for access mutually agreed to. Contractor shall provide the Public Works Director with signed evidence of a mutually accepted agreement between the property owner/business manager/residential manager and Contractor prior to said closure.

C. Safety

1. The safety and convenience of the general public and the residents along the project and the protection of persons and property shall be provided for by the Contractor in accordance with the requirements of this contract.
2. Contractor shall submit a Safety Plan to the Public Works Director at the preconstruction conference. The plan shall detail the procedures The Contractor will implement to satisfy OSHA and the State Occupational Safety Guidelines related to the worker as well as public safety in construction of excavations, structures and confined air spaces as identified by the Public Works Director. Contractor's Safety Plan shall include the requirement that all workers and visitors must wear hard hats while within the project limits.
3. The Safety Plan submitted by Contractor shall include proposed methods to prevent unauthorized persons from gaining access to the work areas.
4. In conjunction with the Safety Plan, Contractor shall furnish and install 72" temporary chain link fencing, or approved equal satisfactory to the Public Works Director, around any unattended excavation deeper than four feet with slopes steeper than 2:1. Temporary fencing shall completely enclose the referenced construction activity and shall be secured after normal working hours to prevent unauthorized access.
5. Unless otherwise approved in writing by the Public Works Director, open utility trenches shall be limited to 50 ft. in length except for cast-in-place pipe installations and during non-working hours shall be covered with steel plate in a manner satisfactory to the Public Works Director.

107.11 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

This project may be subject to the Arizona Pollutant Discharge Elimination System (AZPDES) stormwater requirements for construction sites under the Environmental Protection Agency (EPA) delegation to the Arizona Department of Environmental Quality (ADEQ) for the Construction General Permit for Arizona. If eligible, the following specifications shall apply:

- A. General requirements - The Contractor shall comply with the Arizona Pollutant Discharge Elimination System (AZPDES) Stormwater requirements for construction sites under the Arizona Department of Environmental Quality (ADEQ) Construction General Permit for Arizona. Under provisions of that permit, the Contractor shall be designated as permittee and shall be responsible for providing the necessary labor and materials, and for taking the appropriate measures to assure compliance with the AZPDES Construction General Permit for Arizona as well as other Federal, State and local requirements pertaining to stormwater discharges. As the permittee, the Contractor is responsible for completing, in a manner acceptable to the ADEQ, all documents required by this regulation including the following:
 - (1) Stormwater Pollution Prevention Plan shall be sealed by a professional engineer licensed in the State of Arizona.
 - (2) Stormwater Pollution Prevention Plan (SWPPP) for the project including certification form. The Contractor will be required to update and revise the SWPPP as necessary throughout the construction of the project in order to assure compliance with ADEQ permit requirements. The completed SWPPP shall be kept on the project site at all times during construction of the project.

- (3) Notice of Intent (NOI) to be covered by AZPDES Construction General Permit for Arizona including certification of signature.
- (4) Notice of Termination (NOT) of coverage under AZPDES Construction General Permit for Arizona (upon project completion).

Copies of necessary forms and guidance for preparing the SWPPP are available at ADEQ's website www.adeq.state.az.us/envirom/water/permits/azpdes.html

B. Submittals:

- (1) Preliminary Copies of the NOI and SWPPP shall be submitted to the Engineer at the time of the preconstruction meeting. Any necessary revisions to the SWPPP shall be subject to review by the Engineer, prior to implementation.
- (2) The Contractor shall submit completed, signed NOI forms at least 48 hours prior to the initial start of construction on the project to ADEQ. One copy of the completed, signed NOI form shall be submitted to Arizona Department of Environmental Quality at the following address: Stormwater Program - Water Permits Section/NOI, ADEQ (5415B-3), 1110 West Washington, Phoenix, AZ 850071.
- (3) Failure by the Contractor (or any of its appropriate subcontractors) to submit the NOI forms within the required time frame shall result in delay of the start of construction. The Contractor shall submit a completed copy of the NOI prior to Notice to Proceed. A copy of the completed NOI shall be posted on the construction site and a copy of the SWPPP shall be kept on the construction site.

C. Contractor's Responsibilities:

- (1) It is the Contractor's responsibility to perform inspection of all stormwater pollution control devices on the project on a monthly basis and following each rainfall of 0.50 inches or more at the project site and as required under the AZPDES Construction General Permit for Arizona. The Contractor shall prepare reports on these inspections and retain these reports for a period of three years following project completion as required under the AZPDES Construction General Permit for Arizona. Inspection reports shall be submitted monthly to the contracting agency along with payment requests. The Contractor shall maintain all stormwater pollution control devices on the project in proper working order, including cleaning and/or repair during the duration of the project.
- (2) No condition of either the AZPDES Construction General Permit for Arizona or the SWPPP shall release the Contractor from any responsibilities or requirements under other environmental statutes and regulations.

D. Upon total project completion, acceptance, and de-mobilization, the Contractor shall submit its completed, signed NOT form to the ADEQ with Copies to the same agencies who received Copies of the NOI, thereby terminating all AZPDES permit coverage for the project.

E. Measurement and Payment

Payment shall be at the lump sum unit price bid in the Contract Documents for all material, labor, and other incidental costs relating to the provision, installation, and maintenance of items relating to this permit during project construction. Such incidental costs shall include Contractor costs in order to assure proper operation of the pollution-control devices installed including all maintenance, cleaning, and disposal costs associated with clean-up and repair following storm events or other runoff or releases on the project.

Pay Item: 107.11 Stormwater Pollution Prevention Plan

108.4 CONSTRUCTION SCHEDULE

- A. Prior to beginning construction, the Contractor shall submit for review by the Public Works Director a complete construction schedule as stated in the General Conditions of these contract documents.
- B. Once this schedule has been accepted by the Public Works Director, Contractor shall not deviate from it until a revised schedule has been submitted and accepted by the Public Works Director.
- C. The Public Works Director reserves the right to reject construction schedule submittals when in his opinion the schedule lacks the proper detail.
- D. No separate measurement or payment shall be made for work related to these requirements. This work shall be considered incidental and included in the unit price bid for appropriate contract pay items.

109.11 CONTRACT ALLOWANCE

- A. Contract allowance items are provided for the purpose of encumbering funds to cover the costs of possible contract amendment work. The amount of the allowance item is determined by the Engineer and is not subject to individual bid pricing. All bidders shall incorporate the amount pre-entered in the bid proposal and shall reflect the same in the total amount bid for this project.
- B. This allowance item provides an estimated funding to cover unforeseen changes that may be encountered and corresponding extra work needed to complete the contract per plan. Unforeseen extra work, if any, shall be in accordance with the Contract Amendment section of the General Conditions.

It shall be understood that this allowance item is an estimate only and is based on contract amendment history of similar projects. It shall not be utilized without an approved contract amendment. It is further understood that authorized extra work, if any, may be less than the allowance item. The Contractor, by submittal of his bid, acknowledges that the total bid and individual bid items were prepared without anticipation of use of the contract allowance.

Pay Item: 109.1 Contract Allowance

200.1 DEWATERING

- A. All water encountered during the work shall be disposed of by the Contractor in a manner such that it will not damage public or private property or create a public nuisance or health problem. This work shall consist of furnishing equipment, materials, and labor necessary for the control and removal of water, the construction or installation of all facilities necessary to accomplish the work, and the subsequent removal of such facilities except when designated on the project plans or in the special provisions to remain in place.
- B. **Measurement and Payment**
 - 1. No separate measurement or payment shall be made for dewatering. This work shall be considered incidental and included in the unit price bid for construction or installation of the appropriate contract pay items.

201 CLEARING AND GRUBBING

Work under this item shall be as per YAG Section 201. **No separate payment shall be made for clearing and grubbing per YAG Section 201.5.**

205.1 EARTHWORK AND ROADWAY EXCAVATION

- A. Work under this item shall be done in accordance with YAG and MAG Specifications Section 205, 211 and

301.

- B. If material is encountered during excavation that the Engineer determines to be unsuitable, the following shall apply:

Material which is located in a cut section at an elevation above finished sub-grade shall not be utilized in fill construction but shall be removed and disposed of at a site secured by Contractor.

Material which is located below the natural ground surface in embankment areas and below the finished sub-grade elevation in excavation areas shall be removed to the limits as determined by the Engineer and the resultant cavity backfilled with suitable material as directed.

- C. The price bid for roadway excavation shall include all costs for excavating, hauling, placing and constructing fills per YAG and MAG 211, sub-grade preparation, removal and disposal of unsuitable and excess material. There will be no separate payment made for overhaul.
- D. The bidding schedule quantities for this item of work will be considered to be the final quantities for payment. Adjustments in the bidding schedule quantities for Earthwork as contained in these specifications may be initiated by Contractor or the Engineer if evidence indicates that the required quantity varies by an amount greater than 5% of the bidding schedule quantity. Contractor shall advise the Engineer, in writing, submitting evidence in the form of a construction survey or photogrammetric survey with measurement for the proposed adjustment and requesting an adjustment in quantities. The Engineer will determine the amount of adjustment, if any. The quantity upon which payment will be based will be the bidding schedule quantity plus or minus only that portion of the adjustment that exceeds 5% of the bidding schedule quantity.
- E. Variations caused by shrink of materials shall not be considered for quantity adjustments.
- F. Adjustments in earthwork quantities due to revisions ordered by the Engineer will be isolated by measurement or calculations. The bidding schedule quantities will be adjusted by the amount either measured or calculated, regardless of the 5% variation requirement above.
- G. Embankment quality control testing frequency shall be one per soil type for proctor density testing and one per 500' per 8" lift for compaction testing. Sub-grade quality control testing shall be one per 500' for compaction testing.

H. Measurement And Payment

1. Measurement and Payment shall be in accordance with YAG Section 205.7 and 205.8

Pay Item: 205.1 Earthwork and Roadway Excavation

205.2 REMOVAL OF UNSUITABLE SUB-GRADE MATERIAL AND BACKFILL WITH ABC

- A. Work under this item shall be in accordance with YAG and MAG Specifications Section 205 and as directed by the Engineer. The resultant cavity shall be backfilled with ABC in accordance with the aggregate base course section of these specifications.
- B. Measurement and payment shall be to the nearest cubic yard as calculated in the field and shall include all excavation, hauling and disposal at a site secured by Contractor, and backfilling with aggregate base course.

Pay Item: 205.2 Removal Of Unsuitable Sub-grade Material and Backfill With ABC

300.1 SAW CUT

- A. The work under this item shall consist of saw cutting the existing pavement where new asphalt concrete is to

match existing bituminous surfaces with no provisions for overlaying the entire section. This item shall also include saw cutting of existing Portland cement concrete pavement, sidewalks, driveways and parking lots where new construction shall match the grade of existing surfaces that are to remain where called for on the project plans or where designated by the Engineer.

- B. Saw cuts shall be made to a full depth of the material to insure a neat vertical joint. Portland cement concrete designated to remain that is damaged by the saw cutting shall be replaced in kind at The Contractor's expense.
- C. Measurement of this work will be made horizontally at each location to the nearest foot. Payment for this work will be made at the contract price bid per linear foot for SAWCUTTING, which price shall be full compensation for the work as described and specified herein and on the project plans. Payment will be on the total length of saw cut to the nearest foot.

Pay Item: 300.1 Saw Cutting

301 SUB-GRADE PREPARATION

Work under this item shall be as per YAG Standards Section 301. Payment shall be made at the unit priced per square yard as Y.A.G. Standards Section 301.

310 UNTREATED BASE

MAG Section 310 is supplemented as follows:

310.5 AGGREGATE BASE COURSE

- A. This work consists of furnishing, placing and compacting (the thickness specified on the plans or as required by the Engineer) aggregate base course in accordance with the plans and YAG and MAG Sections 310 and 702 and as modified herein.
- B. The percent composition by weight shall be within the following limits:

Sieve Size	Percent Passing
1 1/8"	100
No. 4	38- 65
No. 8	25 - 60
No. 30	10 -40
No. 200	3 - 12

- C. The maximum plasticity index shall be six when tested in accordance with AASHTO T89 and T-90.
- D. The aggregate base course shall be compacted to 98% of the maximum dry density as determined by ASTM D-698. Aggregate base course quality control testing frequency shall be one per source for Abrasion testing, one at start of production and again if source changes. Proctor Density testing shall require one per 500' per 6" lift for compaction and one per shift for crushed faces, PI, and gradation.
- E. Aggregate base course shall not be placed on excessively wet or frozen sub-grade materials as determined by the Engineer.
- F. Measurement for payment of aggregate base will be calculated by the cubic yard complete in place as follows:

1. Where the plans call out specific base depths, calculations shall be based on plan dimensions.
2. Where the plans are not specific as to depth, calculations shall be based on cross sections of the accepted sub-grade and base elevations as surveyed in the field.

Pay Item: 310.5 Aggregate Base Course

317 MILLING OF ASPHALTIC CONCRETE PAVEMENT

A. General

1. Prior to milling operation and roadway excavation, all existing manholes, valve boxes, etc. shall be lowered and protected. All City facilities shall be protected from debris that may result from any adjustments and the Contractor shall be responsible for any maintenance activity resulting from debris related to the construction. No separate payment shall be made for lowering and protecting existing manholes, valve boxes, etc.
2. The existing asphalt concrete pavement sections shall be removed in accordance with the details shown on the project plans and shall be accomplished with equipment specifically designed to remove such material by means of grinding or chipping to a controlled line and grade within 0.02 feet. Equipment not specifically designed to remove material in this manner shall not be used. The removal shall be accomplished in a manner which does not result in a contamination of the milled asphaltic concrete with the underlying base material. The removal of asphalt concrete pavement at the approaches to structures shall be accomplished in a manner approved by the City.
3. Under no circumstances shall the removal of the existing asphalt concrete pavement begin until the mix design for asphalt concrete production has been approved by the City.

B. Procedures

1. Asphalt concrete pavement adjacent to manholes, valve boxes, etc., shall be removed with equipment specifically designed to operate in restricted areas and capable of removing asphalt concrete pavement of the specified thickness without damage or displacement of the adjacent object.
2. Upon removal, the excess existing asphalt concrete material shall be delivered and off-loaded and stock-piled by the Contractor to the City Waste Transfer Station on Sundog Ranch Road at a location on site determined by the City. The millings will then become the property of the City.

C. Measurement and Payment

Payment for milling shall be at the unit bid price in the bid schedule to include milling, delivery, and stock-piling millings at the City Waste Transfer Station on Sundog Ranch Road.

Pay Item: 317 Mill Asphalt Pavement

321 ASPHALT CONCRETE PAVEMENT

Asphalt mix design materials, manufacture, and placement shall be in accordance with MAG Specifications, Section 321 and Section 710 with the additions, clarifications and changes herein:

SECTION 321.3 WEATHER AND MOISTURE CONDITIONS: shall be changed as follows:

Asphalt concrete shall be placed only when the surface on which the material is to be placed is dry, unfrozen, the atmospheric temperature in the shade is at 40 degrees F and rising, and the temperature of the road

surface or subsurface is at 50 degrees F and rising as measured in the shade. No asphalt concrete shall be placed when the weather is foggy or rainy, when precipitation is eminent, or when the base or sub base on which the material is to be placed is unstable. Asphalt concrete shall be placed only when the Public Works Director or his authorized representative determines that weather conditions are suitable and sub base conditions on which the material is to be placed are acceptable.

SECTION 321.4 APPLICATION OF TACK COAT: is supplemented as follows:

- a. The application rate shall be between 0.04 to 0.06 gallons per square yard of diluted material, 50% water and 50% emulsion, using SS-1H.
- b. The tack coat shall be applied only as far in advance of placing the asphalt concrete as ordered by the Engineer; however, in no event should the tack coat be applied and not covered by the asphalt concrete in the same day.

SECTION 321.6 MIX PRODUCTION: is supplemented as follows:

1. STOCKPILING

- a. Sufficient virgin mineral aggregate material shall be stockpiled at the site of the hot plant to produce the quantity of asphalt concrete required for a minimum of two successive eight hour shifts; however, this requirement will be modified during the last two days production, or under special conditions with the Public Works Director's approval.
- b. Mineral aggregate shall be stockpiled so that segregation is minimized. An approved divider of sufficient size to prevent intermingling of stockpiles shall be provided.

2. PROPORTIONING

- a. No fine material which has been collected in the dust collection system shall be returned to the mixture unless the Engineer, on the basis of tests, determines that all or a portion of the collected fines can be utilized. If the Engineer so determines, he will authorize in writing the utilization of a specific proportion of the fines; however, authorization will not be granted unless the collected fines are accurately and uniformly metered into the mixture.
- b. Mineral aggregate and bituminous material shall be proportioned by volume, by weight, or by a combination of volume and weight.
- c. When mineral aggregate and bituminous material are proportioned by weight, all boxes, hopper buckets or similar receptacles used for weighing materials, together with scales of any kind used in batching materials, shall be insulated against the vibration or movement of the rest of the plant due to the operation of any equipment so that the error in weighting with the entire plant operating shall not exceed 2% for any setting nor 1½% for any batch. Bituminous material shall be weighed in a heated, insulated bucket suspended from a springless dial scale system.
- d. When mineral aggregate and bituminous material are proportioned by volume, the correct portion of each mineral aggregate size introduced into the mixture shall be drawn from the storage bins by an approved type of continuous feeder which will supply bituminous material and so arranged that the proportion of each mineral aggregate size can be separately adjusted. The continuous feeder for the mineral aggregate shall be mechanically or electrically actuated.

3. DRYING AND HEATING

- a. A recording pyrometer or other approved recording thermometric instrument sensitive to a rate of temperature change of not less than 10° F per minute shall be so placed at the discharge chute of the drier in order to record mineral aggregate and to facilitate reading the recorded temperature. A copy of the recording shall be given to the Engineer. The moisture content of the asphalt concrete immediately

behind the paver shall not exceed 1%.

4. *MIXING*

- a. The production of the plant shall be governed by the rate required to obtain a thorough and uniform mixture of the materials. Mixing shall continue until the uniformity of coating, when tested in accordance with the requirements of AASHTO T-195, is at least 95%.
- b. A positive signal system shall be provided to indicate the low level of mineral aggregate in the bins. The plant will not be permitted to operate unless this signal is in good working condition. Each bin shall have an overflow chute or a divider to prevent material from spilling into adjacent bins.
- c. The temperature of asphalt concrete upon discharge from the mixer shall not exceed 325° F. If the asphalt concrete is discharged from the mixer into a hopper, the hopper shall be constructed so that segregation of asphalt concrete will be minimized.

SECTION 321.8 PLACEMENT: is supplemented as follows:

- a. Contractor shall stringline finish ABC grade in the presence of the Public Works Director or his representative to verify compliance to specified tolerances prior to the placement of asphalt concrete. Placement of asphalt concrete shall not begin prior to completion and adequate curing of all adjoining Portland cement concrete items.
- b. The handling of asphalt concrete shall at all times be such as to minimize segregation. Any asphalt concrete which displays segregation shall be removed and replaced.
- c. All wheels and tires of compactors and other equipment shall be wiped when necessary with an approved product in order to prevent the picking up of the asphalt concrete.
- d. Before asphalt concrete is placed, the surface to be paved shall be cleaned of objectionable material.
- e. The base or sub-grade upon which the asphalt concrete is to be placed shall be prepared in accordance with the applicable requirements for the material involved and maintained in a smooth and firm condition until placement.
- f. At any time, the Public Works Director or his designee may require that the work cease or that the work day be reduced in the event of weather conditions either existing or expected which would have an adverse effect upon the asphalt concrete.
- g. The temperature of asphalt concrete just prior to compaction shall be at least 250° F but shall not exceed 300° F, unless permitted by the Engineer.
- h. The asphalt concrete shall be placed as a surfacing course. Surfacing courses are defined as courses placed to serve either as a traffic surface or as a surface upon which a finishing course or seal coat is to be placed. The thickness of surfacing courses will be shown on the project plans.
- i. In order to achieve, as far as practicable, a continuous operation, the speed of the paving machine shall be coordinated with the production of the plant.
- j. Tapered sections exceeding eight feet in width or widened sections not exceeding four feet in width may be placed and finished by other means approved by the Public Works Director.

SECTION 321.8.4 Compaction Base and Surface: is supplemented as follows:

- a. Compacting and smoothing shall be accomplished by the use of self-propelled equipment. Compactors shall be pneumatic tired and tandem powered (steel wheel) and shall be approved by the Public Works Director.
- b. Compactors shall be operated in accordance with the manufacturer's recommendations.

Compactors shall be designed and properly maintained so that they are capable of accomplishing the required compaction.

- c. Steel wheel compactors shall weigh not less than eight tons and have the vibratory mode option.
- d. Pneumatic tired compactors shall be the oscillating type having a width of not less than four feet with pneumatic tires of equal size, diameter and having treads satisfactory to the Public Works Director. Wobble-wheel compactors will not be permitted. The tires shall be spaced so that the gaps between adjacent tires will be covered by the following tires. The tires shall be inflated to 90 lb. per square inch, or such lower pressure will not vary more than five lb. per square inch from the designated pressure.
- e. Pneumatic tired compactors shall be constructed so that the total weight of the compactor can be varied to produce an operating weight per tire of not less than 2,000 lb.
- f. Steel wheel compactors shall not be used in the vibratory mode when the surface temperature of the asphalt concrete falls below 180° F.
- g. Asphalt concrete shall be compacted to not less than 95.0% of laboratory density.
- h. Compaction control shall be defined as the responsibility of Contractor on the basis of his anticipated rate of production to determine the number and types of compactors and the sequence and manner in which they shall be used in order to achieve the specified percent density.
- i. The responsibility for developing and controlling the compaction lies with Contractor.
- j. The City reserves the right to test Contractor's percent of density at any time.
- k. Core samples shall be taken by Contractor on a random location basis with locations determined by the Public Works Director and consist of one core per every 1,000 square yards of roadway, for each day's production. The asphalt cores shall be taken on the following workday or within 24 hours whichever applies and shall be submitted to the City's Quality Assurance firm for testing.
- l. For complete acceptance, all core densities must show a minimum relative density of 95.0% based on a 75 blow Marshall Density, AASHTO T-245. The Marshall Density shall consist of two sets of three specimens averaged for each day's production.
- m. If the core densities show inadequate compaction the unit price will be adjusted per the table below:

Percent Compaction	Reduction in Payment
94.0 - 94.9	5%
93.0 - 93.9	10%
92.0 - 92.9	25%

- n. When the percent compaction is less than 92.0%, Contractor may be required to remove and replace any portions at the discretion of the Public Works Director at no extra cost to the City.

SECTION 321.8.5 Smoothness: the second sentence is changed as follows:

- a. Surfacing course surfaces shall not vary more than 1/8 inch from the lower edge of ten-ft. straightedge when the straightedge is placed parallel to the center of the roadway.

SECTION 321.9 QUALITY CONTROL: shall be changed as follows:

- A. Contractor Quality Control

1. *GENERAL REQUIREMENTS*

- a. It shall be the responsibility of Contractor to administer a Quality Control Plan, hereinafter referred to as “Plan”, sufficient to assure a product meeting the requirements of these specifications. The Plan may be operated wholly or in part by a subcontractor or an independent organization; however, the Plan’s administration, including compliance with the Plan and its modification, shall remain the responsibility of Contractor.
- b. Contractor is required to provide and maintain a Quality Control Plan, along with all the personnel, equipment, supplies and facilities necessary to obtain samples, perform tests, and otherwise assure the quality of the project.
- c. Contractor shall submit the Quality Control Plan to the Public Works Director or his designee at the preconstruction conference.
- e. Contractor shall perform process control sampling, testing and inspection during all phases of the work and shall perform the process control sampling, testing, and inspection at a rate sufficient to assure that the work conforms to the contract requirements. Contractor shall provide the Public Works Director a certification stating that all of the testing equipment to be used is properly calibrated and will meet the specifications applicable for the specified test procedures.

2. *ELEMENTS OF THE PLAN*

- a. The Plan shall address all elements which affect the quality of the asphalt concrete including, but not limited to the following: Mix Design, Aggregate Production, Quality of Components, Stockpile Management, Proportioning, Mixing (including addition of Mineral Admixture, if required), Placing and Finishing, Joints, Compaction.

3. *PLAN IMPLEMENTATION*

- a. The Contractor shall provide testing at the frequencies listed in Table 321.9.1 during production of the asphalt concrete. A laboratory accredited in each of the listed tests by the AASHTO Materials Laboratory (AMRL) shall perform the testing.

TABLE 321.9.1		
CONTRACTOR QUALITY CONTROL TESTING REQUIREMENTS		
Test	Sample Point	Frequency
Ignition Binder Calibration, ASTM D 6307	Stockpiles or storage tanks	1 per mix design per project
Ignition Binder Test, ASTM D 6307, C 117 & C116	Plant, truck, or on-grade	1 per 1000 tons, but not less than 1 per day
Gyratory or Marshall Density, ASTM D 4013 or AASHTO T 166	Plant, truck, or on-grade	1 per 1000 tons, but not less than 1 per day
Maximum Theoretical Density, ASTM D 2041	Plant, truck, or on-grade	1 per 1000 tons, but not less than 1 per day
Temperature	On-grade	Continuous Reading
Aggregate Gradation, ASTM C 117 & C 136	Cold Feed	1 per 1000 tons, but not less than 1 per day

- b. Results of each test shall be provided to the Public Works Director or his designee immediately upon completion, and in no case later than the end of the day asphalt was produced. Test results shall be used to control the asphalt concrete production. Production of the asphalt concrete on consecutive paving days shall not commence until the prior day's test results have been submitted to the Public Works Director or his designee and appropriate actions have been taken in accordance with the criteria listed in Table 321.9.1 and Table 321.9.2.

TABLE 321.9.2		
CRITERIA FOR REQUIRED PLANT ADJUSTMENT		
Property	Criteria A (Adjustment)	Criteria S (Stoppage)
Binder Content	±0.4% of Mix Design	±0.5% of Mix Design
Air Voids	4±1.5%	4±2.0%
Gradation	Table 321-3	Table 321-3
Temperature	±10BC of Mix Design	±15BC of Mix Design

- c. The guidelines in Table 321.9.2 and Table 321.9.3 shall be used to determine if the plant will require adjustment or stoppage. If the Contractor's test results indicate the mixture does not comply with Criteria A in Table 321.9.2, an adjustment to the plant will be required to bring the production closer to the middle of the specification bands. The Contractor is responsible for determining the extent and the method of adjustment, and shall notify the Public Works Director or his designee in writing of what adjustments were made.

TABLE 321.9.3	
ALLOWABLE GRADATION VARIATION FROM MIX DESIGN TARGET	
Maximum Aggregate Size	100%
Nominal Maximum Aggregate Size (NMAS)	±5%
#8 (2.36 mm) Sieve to NMAS	±4%
#40 (0.425mm) Sieve	±3%
#200 (0.75 mm) Sieve	±1.5%

- d. If the Contractor's test results indicate the mixture is at or beyond the range established by Criteria S in Table 321.9.2, production shall cease immediately, and shall not resume (except as required to produce material for additional samples) until additional test results verify the adjustments will produce test results meeting Criteria A in Table 321.9.2. The Public Works Director or his designee may enforce the adjustment or stoppage criteria if the acceptance tests and the quality control tests are not in agreement.
- e. A representative of the City shall secure two representative samples of the mixture for each day's production.

- f. Samples will be tested for conformance with the mineral aggregate gradation in accordance with the requirements of AASHTO T27. The gradation of the mineral aggregate will be considered to be acceptable unless the average of any three consecutive tests or the results of a single test varies from the mix design gradation percentages as follows:

Passing Sieve	Number of Tests	
	Three Consecutive	One
Nominal Maximum Aggregate Size	± 6%	± 8%
No. 8	± 4%	± 6%
No. 40	± 4%	± 6%
No. 200	± 1.5%	± 2.0%

- g. Samples will be tested for conformance with the sand equivalent in accordance with AASHTO T176 and will be considered acceptable if the result is 45 or greater and does not vary from the design by more than -10 points. At any time that test results indicate that the gradation of the mineral aggregate or sand equivalent does not fall within all of the limits indicated, the production of asphalt concrete shall cease immediately and shall not begin again until calibration tests indicate that the gradation and sand equivalent is within the limits indicated.

SECTION 321.12 MEASUREMENT: shall be supplemented as follows:

- a. Measurement under this item shall be to the nearest square yard.
- b. No separate measurement shall be given for the thickened edge, COP Standard Detail 201P and as detailed on project drawings. This work shall be considered incidental and included in the unit price bid in the contract documents. Payment shall be made at the unit price bid in the contract documents for the items complete in place, adjusted for compaction and thickness deficiencies as herein provided.

Pay Item: 321.1 AC Pavement

330.1 ASPHALT CHIP SEAL

Work under this item shall be performed in accordance with YAG Spec Section 330 with the following modifications:

A. General Description

1. Chip seal coat on bituminous paved surfaces shall consist of the application of CRS-2 emulsified asphalt applied at a rate of 0.40 - 0.50 gallons per square yard or as directed by the Engineer and covered with chips. Chips shall be spread with a self-propelled, mechanical spreader. Adjacent concrete surfaces shall be protected prior to chip seal or cleaned afterwards if required by the Engineer. Chips shall be MAG High-Volume 3/8 inch nominal diameter.

2. All materials and work shall conform to YAG Specification 330 or this specification, the most stringent taking precedence.

B. Aggregate Cover Material

1. Aggregate shall be composed of a clean and durable crushed rock or crushed gravel conforming to the following requirements:

If the aggregate material is to be crushed stone, it shall be manufactured from sound, hard, durable rock of accepted quality and crushed to specification size. All strata, streaks, and pockets of clay, dirt, sandstone, soft rock or other unsuitable material accompanying the sound rock shall be discarded and not allowed to enter the crusher.

If the aggregate material is to be crushed gravel, it shall consist of hard, durable fragments of stone or gravel of accepted quality and crushed to specification size. All strata, streaks and pockets of sand, excessively fine gravel, clay or other unsuitable material including all stones, rocks, and boulders of inferior quality shall be discarded and not allowed to enter the crusher. The crushing of the gravel shall result in a product in which the material retained on the separate No. 4 and 3/8 inch sieves shall have at least 75% of particles with at least one fractured face.

The crushed aggregate shall not contain more than 8% by weight of elongated or flat pieces and shall be free from wood, roots, vegetable, organic or other extraneous matter.

2. Rolling Equipment - A minimum of three operational self-propelled pneumatic-tired rollers shall be used for the required rolling of the cover material. The pneumatic-tired rollers shall carry a minimum loading of 5,000 pounds on each wheel and a minimum air pressure of 90 pounds per square inch in each tire.
3. Hauling Equipment - Trucks for hauling cover material shall be tailgate discharge and shall be equipped with a device to lock onto the hitch at the rear of the cover material spreader. Haul trucks shall also be compatible with the cover aggregate spreader so that the dump bed will not push down on the spreader when fully raised or have too short a bed that results in aggregate spillage while dumping into the receiving hopper.

C. Construction Methods

1. General - Immediately prior to the application of the asphalt membrane, the surface shall be thoroughly cleaned by means of power brooms, supplemented by hand brooms if necessary, in order to ensure adequate adhesion of the emulsified asphalt to the pavement. Chip seal coat shall not be applied for at least seven calendar days after completion of new bituminous paving.
2. Weather Limitations - Bituminous material shall be applied only when the existing surface is dry, there is no threat of rain, and the atmospheric temperature is above 60° F. No material shall be applied when rain is imminent or when the wind is excessive.
3. Chip Seal Over Existing Markings - Contractor shall place tab markings for identification of layout and remarking areas to receive chip seal application over existing pavement markings. In applications of chip seal over existing thermoplastic striping identified to be deleted and not remarked, all such thermoplastic markings shall be obliterated. Obliteration method(s) shall be approved by the Engineer. Painting over striping does not constitute stripe obliteration. This requirement precludes requirements stipulated under ADOT Standard Specification Section 708, which specify that markings are to be surveyed and recorded.
4. Application of Cover Material - Cover material shall be immediately and uniformly spread at a rate sufficient to completely embed and cover the emulsified asphalt. The actual amount selected shall be determined in the field and based on the appearance of Chip Seal after initial rolling. The application rate shall be kept to a minimum.
5. Rolling - At least three operational pneumatic-tired rollers shall be provided to accomplish the required

embedment of the cover material. At some project locations or where production rates dictate, fewer rollers may be utilized as directed by the Engineer. At no time shall there be less than two operational pneumatic tired rollers on a project.

Sufficient rollers shall be used for the initial rolling to cover the width of the aggregate spread with one pass. The first pass shall be made immediately behind the cover material spreader, and if the spreading is stopped for an extended period, the cover material spreader shall be moved ahead or off the side so that all cover material may be immediately rolled. Four complete passes with rollers shall be made with all rolling completed within one hour after the application of the cover material.

6. Traffic Control - Except when it is necessary that hauling equipment must travel on the newly applied membrane, traffic of all types shall be kept off the membrane until it has had time to set properly. The speed of all hauling equipment shall not exceed 15 miles per hour when traveling over a membrane which is not adequately set. The minimum traffic free period shall not be less than one hour.
7. Clean Up - The Contractor shall restore all adjacent property affected by his operations to a condition equal to or better than what existed prior to beginning this contract. This shall include but not be limited to the removal of emulsified asphalt and aggregate from all utility appurtenances (manhole frames and covers, water valves, etc.) and survey monuments. Contractor shall remove excess cover material from the project site and disposal of this material shall be considered incidental to the price bid for chip seal. Use of Pick-up Brooms is required. No sidekick brooms will be allowed.

Excess chips shall *not* be placed on unpaved City streets.

D. Flush Coat (Fog Seal)

All chip seal areas shall receive a fog seal asphaltic emulsion or flush coat applied the same week of the placement of the chip seal. The surface shall be dry and free of loose material at the time of application. This timeframe may be extended by the Public Works Director when weather and/or traffic conditions are not favorable. The fog seal shall not be applied when the surface is wet or when there is threat of rain. The ambient temperature shall be a minimum of 70° F (21° C) and rising, with constant sunshine.

Asphaltic emulsion shall be grade CSS1, CSS1H or CQS1H diluted 50/50 with clean water. Immediately before applying the emulsion, the area to be flushed shall be cleaned of all loose aggregate and foreign material. This shall be accomplished by power brooms or pick-up brooms and supplemented by hand brooms when necessary.

The diluted asphalt emulsion shall be mixed before application and shall be evenly applied by a distributor truck, in sound mechanical condition, at a rate of 0.10 to 0.20 gallons per square yard, allowing for a residual after the emulsion “breaks” of 0.03 to 0.06 gallons per square yard.

Concrete surfaces, to include utility cover concrete collars, shall be protected from fog seal.

No separate payment shall be made for fog seal. The fog seal shall be considered incidental to the chip seal.

E. Measurement and Payment

Work under this item shall be to the nearest square yard complete and in place.

Pay Item: 330.1 Asphalt Chip Seal

340.1 CONCRETE CURB, GUTTER, AND CURB TERMINATIONS

- A. Work under this item shall be performed in accordance to YAG and MAG Specifications Sections 340, 725, and 726, the Project Drawings, COP Standard Detail 220P, YAG Standard Detail 222, and MAG

Standard Detail 221, as specified on the plans and as modified herein. All curbs, gutters, and curb terminations shall be constructed on minimum 4" thick ABC, whether shown on the standard details, or not. The sub-grade and aggregate base materials under the curb shall be compacted to not less than 95% of the maximum dry density as determined by AASHTO T-99.

- B. **Measurement for payment** of concrete curb and gutter shall be in accordance with MAG Specifications Section 340.5. Measurement of curb and gutter shall exclude driveways unless specified on plans. Curb and gutter adjacent to driveways shall be paid for at the unit price for driveway entrances. No additional payment will be made for aggregate base material required under concrete curb and gutter. The base material shall be considered incidental to the construction of this item and provided for in the unit price bid for the work. The pavement section shall extend to the back of curb. In no case shall ABC thickness below curb be less than four inches.

Pay Item: 340.1 Concrete Curb, Gutter, and Curb Terminations

340.2 CONCRETE SIDEWALK, SIDEWALK LANDING AND RAMP

- A. Work under this item shall be performed in accordance to YAG and MAG Specifications Sections 340, 725, and 726, the Project Drawings; COP Standard Details 230P, 231P, or YAG Standard Detail 215, 231, or as specified on plans and as modified herein. All sidewalks, sidewalk landings, and ramps shall be constructed on minimum 4" thick ABC, whether shown on the standard details, or not. The sub-grade and aggregate base materials under the sidewalks, sidewalk landings, and ramps shall be compacted to not less than 95% of the maximum dry density as determined by AASHTO T-99.
- B. Ramps shall include Masco Detectable Warning Panels, or approved equal, color Salem Red.
- C. In areas where the existing sidewalk is depressed at driveways, the new construction shall maintain a constant grade between the existing sidewalks on each side of the driveway. Match up construction shall include 10' of replacement driveway surfacing from the new top of sidewalk to the existing driveway elevations behind the sidewalk.
- D. Sidewalk ramps shall include the typical 2' curb returns and transition curb tapers to existing sidewalk grades as shown on the ramp details. No separate measurement or payment shall be made, the cost being considered incidental to Pay Item 340-2 Concrete Sidewalk, Sidewalk Landing, and Ramp
- E. Measurement and payment for sidewalk, sidewalk landing, and ramps shall be per square foot, to include the detectable warning panels, excluding the two-foot curb and gutter section around the radius. No additional payment will be made for four inches of aggregate base material required under concrete sidewalk, sidewalk landing and ramp. The base material shall be considered incidental to the construction of this item and provided for in the unit price bid for the work.

Pay Item: 340.2 Concrete Sidewalk, Sidewalk Landing, and Ramp

345 ADJUST MANHOLES, VALVES AND CLEANOUTS

- A. Work under this item shall be performed in accordance with MAG Specifications Section 345 with the following modifications:
- B. All frames, covers, valve boxes, manholes, etc., shall be adjusted to finished grade after placement of asphalt concrete surface course by the Contractor as per COP Standard Details 270P, 3-15P, and 4-05P. New water valve top risers and caps shall be furnished by the Contractor at existing water valve locations and placed as directed by the Engineer. New valve top risers and caps shall be considered incidental to the cost of adjustment. Existing water valve risers and caps shall be salvaged to the City Water

Department. Existing sanitary sewer manhole and cleanout rings and covers shall be salvaged and utilized for grade adjustment.

- C. **No separate measurement or payment** shall be made for adjusting manholes and valves and cleanouts. This work shall be considered incidental and included in the unit price bid for construction of the appropriate contract pay items.

350.1 REMOVAL OF EXISTING IMPROVEMENTS

- A. Work under this item shall be performed in accordance with ADOT Specifications Section 202, as designated on the project drawings and as modified herein.
- B. ADOT Specifications subsection 202-1 shall be revised by adding the following: All existing utilities not designated for removal shall remain in place and be protected against damage.
- C. No item shall be removed if designated by the Public Works Director to remain in place. Such items shall be protected from damage.
- D. ADOT Specs subsection 202-3.03, paragraph B shall be revised to read: All bituminous pavements to be removed shall be removed from the job site and disposed of at a site secured by Contractor.
- E. Street signs, traffic control signs, traffic signal material and control devices shall be removed as designated on project drawings, salvaged and delivered to the Engineer of Prescott at the site designated by the Engineer.
- F. ADOT Specs subsection 202-3.08, paragraph 3 shall be revised to read: In areas where new fence or relocated fence is to be installed, Contractor shall perform the removals in such a manner as to prevent the escape of any livestock and/or domestic pets, including the placement and removal of temporary fence when necessary. This work shall be considered incidental and included in the unit price bid for removals.
- G. **No separate measurement or payment** shall be made for removal of existing improvements. This work shall be considered incidental and included in the unit price bid for construction of the appropriate contract pay items.

370 RUBBER CHIP SEAL

1. DESCRIPTION

General

This item shall consist of a bituminous surface Asphalt-Rubber Stress Absorbing Membrane (SAM) or Asphalt-Rubber Stress Absorbing Membrane Interlayer (SAMI) composed of a single application of asphalt-rubber binder, pre-coated aggregate and fog seal in accordance with these specifications.

2. MATERIAL COMPONENTS

PG Asphalt

The type and grade of PG asphalt utilized to manufacture the asphalt-rubber binder shall be PG 64-22, which shall comply with requirements of the Table #1.

Table #1

PG Asphalt Grading Requirements

AASHTO M 226 ASTM D 3381	AASHTO M 20 ASTM D 946	Performance Grading
AC-10 or AC-20 AR-4000 or AR-8000	60-70 or 85-100	PG 64-22

Granulated Reclaimed Tire Rubber (CRM)

The CRM used shall be produced primarily from the processing of automobile and truck tires. The rubber shall be produced by ambient temperature grinding processes only. The CRM when tested in accordance with ASTM C-136 (dry sieve only) and using a 50-gram sample shall meet the requirements in Table #2.

Table #2

CRM Grading Requirements

Sieve Size	Reclaimed Tire CRM Percent Passing
#8 (2.36 mm)	100
#10 (2 mm)	100
#16 (1.18 mm)	75-95

The use of CRM from multiple sources is acceptable provided that the overall blend of rubber meets the gradation requirements.

The individual CRM particles, irrespective of diameter, shall not be greater in length than 3/16 of an inch (5mm).

The CRM shall have a specific gravity of 1.15 ± 0.05 and shall be free of loose fabric, wire and other contaminants except that up to 4 percent (by weight of rubber) calcium carbonate or talc may be added to prevent the rubber particles from sticking together. The rubber shall be sufficiently dry so as to be free flowing and not produce a foaming problem when blended with the hot PG asphalt cement. The CRM shall be accepted by certification from the rubber supplier.

Asphalt-Rubber Binder

The temperature of the blended PG asphalt cement shall not be less than 375° F (190 ° C) or more than 425° F (219° C) when the CRM is homogeneously blended in the field. The combined materials shall be reacted for a minimum of 45 minutes after the entire incorporation of all the CRM. The asphalt-rubber binder shall meet the following criteria in Table #3, when the reaction is complete.

Table #3

Specification Limits for Asphalt-Rubber Binder

Apparent viscosity, 347° F (175° C) Spindle 3 @ 12 RPM: cps (ASTM D7741)	Min Max	1500 3500
Cone Penetration, 77° F (25° C), 150g, 5 sec; 1/10 dm (ASTM D217)	Min	15
Softening Point, °F (° C) (ASTM D36)	Min	135° F (57° C)
Resilience, 77° F (25° C), % (ASTM D5329)	Min	30

The viscosity shall be conducted by using a hand held HAAKE VISCOMETER: Model VT-02 with rotor 1, 24mm in depth x 53mm in height, or equivalent. The reacted asphalt-rubber binder shall be maintained at a temperature of not less than 375° F (190° C) or more than 425° F (219° C).

If material in a batch of asphalt-rubber binder is not used within six hours after the reaction period is complete, heating of the material shall be discontinued. When the asphalt-rubber binder temperature cools below 375° F (190° C) and is then reheated, it shall be considered a reheat cycle. The total number of reheat cycles shall not exceed two (2). The binder material shall be uniformly reheated to a temperature of not less than 375° F (190° C). Additional CRM may be added to the reheated asphalt-rubber binder and reacted for a minimum of 30 minutes and shall not exceed 10 percent of the total binder weight. Reheated asphalt-rubber binder shall conform to the requirements for blended asphalt-rubber binder.

Asphalt-Rubber Binder Formulation

The asphalt-rubber binder supplier, shall furnish to the Engineer within 15 days of the notice to proceed, the asphalt-rubber binder profile shall contain the following information:

PG Asphalt Cement

Source of PG Asphalt Cement

Grade of PG Asphalt Cement

Percentage of PG Asphalt Cement by total weight of asphalt-rubber mixture

Reclaimed Tire Rubber (CRM)

Source of CRM

Grade of CRM

Percentage of CRM by total weight of the asphalt-rubber mixture

If CRM from more than one source is to be utilized, then the above information will be required for each source of CRM used.

Aggregate Cover Material

Aggregate shall be composed of clean and durable crushed rock or crushed gravel conforming to the following requirements:

Proposed aggregate samples shall be submitted to the asphalt-rubber binder supplier prior to the preparation of the mix design to test the aggregate for stripping characteristics. All testing results shall be submitted to the project engineer.

If the aggregate is to be crushed stone, it shall be manufactured from sound, hard, durable material of accepted quality and crushed to specification size. All strata, streaks and pockets of clay, dirt, sandstone, soft rock or other unsuitable material accompanying the sound rock shall be discarded and not allowed to enter the crusher.

If the aggregate material is to be crushed gravel, it shall consist of hard, durable fragments of stone or gravel of accepted quality and crushed to specification size. All strata, streaks, pockets of sand, excessively fine gravel, clay or other unsuitable material including all stones, rocks and boulders of inferior quality shall be discarded and not allowed to enter the crusher. The crushing of the gravel shall separate the #4, 3/8 and 1/2 inch (4.75, 9, and 12 mm) sieves and shall have a minimum 95% of the particles with a minimum of one mechanically fractured face and 90% of the particles shall have a minimum of two mechanically fractured faces.

The crushed aggregate shall not contain more than 8% by weight of flat or elongated pieces and shall be free from wood, roots and vegetable or other organic extraneous matter. The crushed coarse aggregate shall have a percentage of wear not more than 7 at 100 revolutions and not more than 30 at 500 revolutions, as determined by ASTM C131.

The aggregate shall show no evidence of disintegration or show a total loss greater than 12% when subjected to 5 cycles of the sodium sulfate accelerated soundness test specified in ASTM C88.

The crushed aggregate for asphalt rubber applications shall meet the requirements for gradation given in Table 4, when tested in accordance with ASTM C136.

Table 4

Aggregate Gradation Requirements

3/8 inch SAM & SAMI Aggregate Gradation

1/2 inch SAM & SAMI Aggregate Gradation

Sieve Size	Percent Passing	Sieve Size	Percent Passing
1/2 inch (12 mm)	100	3/4 inch (15 mm)	100
3/8 inch (9 mm)	70 – 85	1/2 inch (12 mm)	94 - 99
1/4 inch (4.75 mm)	0 – 15	3/8 inch (9mm)	70 - 85
#8 (2.36 mm)	0 – 5	1/4 inch (4.75 mm)	0 - 15

#200 (75 μm)	0 – 1	#8 (2.36 mm)	0 - 5
---	---	#200 (75 μm)	0 - 1

The aggregate shall be pre-coated or hot pre-coated with 0.5 ± 0.25 percent emulsified asphalt or PG asphalt cement. The Engineer shall determine the appropriate amount of pre-coat. The pre-coated aggregate shall have a “salt and pepper” appearance and when used hot shall be supplied to the project site at 250° F to 325° F (121° C to 162° C).

3. EQUIPMENT

General

The equipment used by the Contractor for pavement cleaning and excess aggregate removal shall include side cast broom, mobile pick-up broom or top dumping mobile pick-up broom as approved by the Engineer.

Asphalt-Rubber Equipment

All equipment utilized in the production and application of asphalt-rubber binder materials shall be described as follows:

- a) PG asphalt heating tank with a hot oil heat transfer system or a retort heating system capable of heating the PG asphalt to the proper temperature for blending with the CRM.
- b) An asphalt-rubber mechanical blender shall have a two stage continuous mixing process capable of producing a homogenous blend of PG asphalt and CRM, at the mix design specified ratios, as directed by the Engineer. This unit shall be equipped with a granulated rubber feed system capable of supplying the PG asphalt feed system, as not to interrupt the continuity of the blending process.

The maximum capacity of the primary blending vessel shall be 500 gallons (1900 liters). Both the primary and secondary blenders shall be equipped with an agitation device orientated horizontally in the blending vessel. The blending unit shall be capable of fully blending the individual CRM rubber particles with the PG asphalt. A separate PG asphalt feed pump and finished product pump are required. This unit shall have PG asphalt totalizing meter in gallons and a flow rate meter in gallons per minute.

- c) A trailer mounted self-powered distributor truck equipped with a heating unit, and an internal mixing device capable of maintaining a uniform mixture of PG asphalt and CRM. It shall be equipped with a full circulating spreader bar and pumping system capable of applying asphalt-rubber material within ± 0.05 gallons per square yard tolerance of the specified application rate, and must achieve a uniform covering of the surface to be treated. The distributor shall also include a tachometer, pressure gauge, a volume-measuring device, thermometer and shall be equipped with a computer rate control (CRC) system.

Aggregate Cover Material Spreader

The cover material (chip) spreader shall be a self-propelled machine with an aggregate receiving hopper in the rear, belt conveyors to carry the pre-coated aggregate to the front, and a full width spreading hopper. The spreader shall be in good mechanical condition and shall be capable of applying the cover aggregate uniformly across the spread width and at the specified application rate. When utilizing hot pre-coated aggregate, heat-treated belts shall be installed on the chip spreader.

Rolling Equipment

A minimum of three continually operated self-propelled pneumatic-tired rollers shall be used for the required rolling of the cover material. The pneumatic-tired rollers shall carry a minimum loading of 3,000 pounds (1,361 kg) on each wheel and a minimum pressure of 90 pounds per square inch in each tire.

Hauling Equipment

Trucks for hauling the cover aggregate shall be tailgate discharge and shall be equipped with a device to lock onto the hitch of the cover material spreader. Haul trucks shall also be compatible with the cover aggregate spreader so that the dump bed will not push down on the spreader when fully raised, or have too short of a bed which results in aggregate spillage while dumping into the receiving hopper.

4. CONSTRUCTION METHODS

General

Immediately prior to the application of the asphalt-rubber chip seal, the surface shall be thoroughly cleaned in order to insure adequate adhesion of the asphalt-rubber to the existing pavement surface.

Weather Conditions

Asphalt-rubber binder shall be applied only when the existing surface is dry and the atmospheric temperature is above 55° F (13° C) and rising. No asphalt-rubber binder shall be applied when rain is imminent or when the wind is excessive, as directed by the Engineer.

Asphalt-Rubber Mixing and Reaction

The percentage of Reclaimed Tire Rubber CRM shall be 15 – 20 percent by weight of the total asphalt-rubber mixture; the exact CRM content shall be determined by the binder design profile submitted by the asphalt-rubber binder supplier. During membrane placement the CRM percentage shall not fluctuate by more than 1 (one) percent by weight of total asphalt-rubber mixture.

The temperature of the PG asphalt shall be between 375° F and 450° F (190° C and 231° C) at the addition of the CRM. The PG asphalt and the CRM shall be combined and mixed together in the asphalt-rubber blending unit and reacted in the distributor truck or a reaction vessel for a minimum period of 45 minutes from the time the CRM is completely combined with the PG asphalt. The temperature of the asphalt-rubber binder shall be above 350° F (176° C) during the reaction period, but shall not exceed 450° F (231° C) at any time. Exceeding the 450° F (231° C) limit will be grounds for rejection of the affected binder material.

When a job delay occurs after full reaction, the asphalt-rubber binder may be allowed to cool. The asphalt-rubber binder shall be re-heated slowly just prior to application to a temperature between 350° F and 400° F (176° C and 231° C) An additional quantity of PG asphalt and / or CRM may be added as required to produce a material with the appropriate viscosity. See re-heat cycle (page 4).

Application of Asphalt-Rubber Binder

Placement of the asphalt-rubber chip seal shall be made only under the following conditions:

- a) The pavement surface temperature shall be 50° F (10° C) and rising.
- b) The pavement surface is clean and dry.
- c) The wind conditions do not exceed 20 miles per hour.

- d) All of the construction equipment such as the asphalt-rubber distributor, aggregate spreader, haul trucks loaded with cover material, rollers and brooms are in position and ready to commence placement operations.
- e) Rain is not imminent.

The asphalt-rubber binder shall be applied to the roadway following mixing and reaction at a temperature of 350° F to 400° F (176°C to 231° C) at a rate of 0.55 to 0.75 gallons per square yard (2.42 to 3.30 liters per square meter) as directed by the Engineer, based on existing pavement condition. Transverse joints shall be constructed by placing building paper across and over the end of the previous asphalt-rubber application. Once the application has progressed beyond the paper, the paper shall be removed immediately and disposed of as directed by the Engineer. The use of paper may be discontinued if the Contractor chooses to squeegee the excess asphalt-rubber binder material at the transverse joints prior to the placement of the cover aggregate. All longitudinal joints shall not exceed a 12-inches (30 cm) overlap.

Distributor bar height, distribution, speed and shielding materials shall be utilized to reduce the effects of excess wind upon the spray distribution (fan). The Engineer shall delay or reschedule work when high gusting or dirty winds prevent or adversely affect binder or aggregate application.

The application of asphalt-rubber binder to areas not accessible with the distributor bar on the distributor truck shall be accomplished by using pressurized hand wands or other means approved by the Engineer.

The Contractor shall comply with all federal, State and Local environmental laws, regulations and ordinances including but not limited to air quality requirements.

Application of Aggregate Cover Material

Aggregate Cover Material shall be applied immediately onto the asphalt-rubber binder, at a rate of 26 to 34 pounds per square yard (11.79 to 15.42 kilograms per square meter). The actual amount selected within this range will be determined in the field based on the appearance of the asphalt-rubber chip seal after initial rolling. At all times the aggregate application rate shall be kept to a minimum.

At the time of the aggregate application, **when using hot pre-coated aggregate**, the temperature of the aggregate shall range from 250° F to 325° F (121° C to 162° C)

Rolling

At least three operational pneumatic-tired rollers shall be provided to accomplish the required embedment of the aggregate cover material. At some project locations, or when production rates dictate, additional or fewer rollers may be utilized as directed by the Engineer. At no time shall there be less than 3 (three) operational pneumatic-tired rollers on this project.

Sufficient rollers shall be used for the initial rolling to cover the width of the aggregate spread with one pass. The first pass shall be made immediately behind the cover material spreader as the aggregate is being placed. If the spreading is stopped for an extended period, the cover material spreader shall be moved ahead or off to the side of the roadway so that all cover material may be immediately rolled. Three complete passes with rollers shall be made with the pneumatic rollers.

Asphaltic Emulsion Fog Seal

All asphalt-rubber chip seal areas shall receive a fog seal of asphaltic emulsion during the same week the asphalt-rubber chip seal is placed. The surface shall be dry and free of loose material at the time of application. This timeframe may be extended by the Engineer when weather and/or traffic conditions are not favorable. The fog seal shall not be applied when the surface is wet or when there is threat of rain. The ambient temperature shall be a minimum of 70° F (21° C) and rising, with constant sunshine.

Asphaltic emulsion shall be grade CSS1, CSS1H or CQS1H diluted 50/50 with clean water. Immediately before applying the emulsion, the area to be flushed shall be cleaned of all loose aggregate and foreign material. This shall be accomplished by power brooms or pick-up brooms and supplemented by hand brooms when necessary.

The diluted asphalt emulsion shall be mixed before application and shall be evenly applied by a distributor truck, in sound mechanical condition, at a rate of 0.10 to 0.20 gallons per square yard, allowing for a residual after the emulsion "breaks" of 0.03 to 0.06 gallons per square yard.

Concrete surfaces, to include utility cover concrete collars, shall be protected from fog seal.

No separate payment shall be made for fog seal. The fog seal shall be considered incidental to the chip seal.

Sand Cover

Sand cover material, **if required**, shall conform shall conform to the fine aggregate grading requirements of the specifying agency.

Sand shall be spread by means of a self propelled chip spreader equipped with a computerized device that will allow for application of the sand at a uniform rate over the full width of a traffic lane in a single application. Sand shall be spread at a rate of 2 to 4 pounds per square yard (0.91 to 1.81 kilograms per square meter). The exact rate will be determined by the Engineer. If approved by the Engineer other equipment may be used to spread the sand.

Traffic Control

Except when it is necessary that hauling equipment must travel on the newly applied asphalt-rubber chip seal, traffic of all types shall be kept off the chip seal until it has had time to set properly. The speed of the hauling equipment shall not exceed 15 miles per hour (24 kilometers per hour) when traveling over an asphalt-rubber chip seal that has not had sufficient time to properly set.

5. METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Payment shall be made at the contract unit price per square yard for asphalt-rubber bituminous material used in the SAM application, aggregate material and the emulsified asphalt flush coat at the specified application rate. The unit price shall be full compensation for furnishing all materials and for all preparation, hauling and application of the materials, including labor, equipment, tools and incidentals necessary to complete the item.

Pay Item: 370 Rubber Chip Seal

401 TRAFFIC CONTROL

- A. Traffic control during construction shall be performed in accordance with MAG Section 401 and the Manual on Uniform Traffic Control Devices for Streets and Highways, US Department of Transportation Federal Highway Administration, latest edition with the latest revisions, Arizona Department of Transportation Traffic Control Manual, the project plans, and as stated herein.
- B. Prior to beginning the project, Contractor shall submit for approval a Traffic Control Plan for the entire project. He must obtain approval from the Director of Public Works for the Traffic Control Plan and Schedule prior to any construction. Contractor shall submit the Traffic Control Plan to the Director of Public Works at or before the project preconstruction conference.
- C. Written notice shall be given to the Director of Public Works or his representative on the job 48 hours prior to any changes in detours or routes of access. The notice shall give specific details with maps

showing the access to all residences and businesses affected by the project.

- D. The Police and Fire Departments shall be continually updated on access routes along and through the site during construction.
- E. All traffic control devices required for the project shall be the responsibility of Contractor.
- F. When required to cross, obstruct, or close a street, traffic way, or sidewalk for a short duration that is approved by the Director of Public Works, the Contractor shall provide and maintain suitable bridges, detours or other approved temporary means for the accommodation of vehicular and pedestrian traffic.
- G. When traffic conditions at the construction site warrant the use of certified police personnel to direct traffic, arrangements shall be made with the City Of Prescott Police Department, Yavapai County, or Department of Public Safety for off-duty officers.
- H. Payment for traffic control shall be at the applicable unit price bid in the Contract Documents.
 - 1. Preparation of traffic control plan shall be inclusive of all submittals, reviews and if needed, re-submittals.
 - 2. Flaggers shall be per hour for actual time directing traffic. It does not include travel time or time spent setting up or taking down devices.
 - 3. In the event off-duty police personnel are required to direct traffic, the Bid Schedule includes an allowance for Certified Police Personnel for the purpose of encumbering funds to cover the cost of Certified Police Personnel. The amount of the allowance is determined by the Public Works Director and is not subject to individual bid pricing. All bidders shall incorporate the amount in the bid proposal and shall reflect the same in the total bid for this project.

It shall be understood that this allowance is an estimate only. The allowance shall be not used without approval of the Public Works Director.

Reimbursement for Certified Police Personnel shall be based on actual cost, plus an allowable markup to the prime contractor of 15%, for use of Certified Police Personnel approved by the Public Works Director.
 - 4. Barricades and storage shall be at the lump sum bid and shall be inclusive of all temporary signs and devices in the traffic control plan and as required by the MUTCD and the Public Works Director.
 - 5. Message boards shall be measured by each per day as determined necessary by the approved traffic control plan and the Public Works Director.
 - 6. Pilot car and driver shall be per hour for actual time used as required by the approved traffic control plan and the Public Works Director. It does not include travel time or time spent setting up or taking down devices.
 - 7. Incidental traffic related items shall include all other pertinent tools, equipment, devices and or work required to provide safe and effective traffic control in accordance with the approved traffic control plan, the MUTCD and the Public Works Director.

Pay Item: 401.7a Traffic Control Plan (LS)

Pay Item: 401.7b Flaggers (HR)

Pay Item: 401.7c Certified Police Personnel Allowance

Pay Item: 401.7d Barricades and Storage (LS)

Pay Item: 401.7e Message Boards (each per day)

Pay Item: 401.7f Pilot Car and Driver (HR)

Pay Item: 401.7g Incidental Traffic Related Items (LS)

402.2 THERMOPLASTIC PAVEMENT MARKINGS

- A. Work under this item shall be performed per ADOT Specifications Section 704.
1. Stop Bars and Crosswalks - Work under this item shall consist of the application of thermoplastic striping material at the locations noted on the project plans. All stop bars shall be 18 inches in width unless otherwise specified. Crosswalks shall be 12 inches in width.
 2. Measurement shall be in accordance with ADOT Section 704-5 (Width times Length divided by 4 inches equals LF as shown in bid schedule).
 3. Pavement Markings - Pavement markings shall be in accordance with ADOT Section 704-4, ADOT 4-M 1.12 through 4-M 1.17 and as modified herein. Work under this item shall consist of the application of thermoplastic striping material at the locations noted on the project plans.
 4. Measurement and payment for pavement markings shall be at the per each basis for each legend or marking installed in accordance with ADOT Section 704-5.

Pay Item: 402.2a Thermoplastic Striping – White

Pay Item: 402.2b Thermoplastic Left Turn Arrow

Pay Item: 402.2c Thermoplastic Right Turn Arrow

Pay Item: 402.2d Thermoplastic Thru Arrow

Pay Item: 402.2e Thermoplastic Right/Thru Arrow

402.3 TEMPORARY STRIPING

- A. Work under this item, Temporary Striping (paint) where required, shall be performed per ADOT Specifications Section 701-3.05. Measurement and payment shall be per ADOT Section 708-4 and 708-5.

Pay Item: 402.3a Temporary Striping – Yellow Paint

Pay Item: 402.3b Temporary Striping – White Paint

Pay Item: 402.3c Temporary Left Turn Arrow

Pay Item: 402.3d Temporary Right Turn Arrow

Pay Item: 402.3e Temporary Thru Arrow

Pay Item: 402.3f Temporary Right Turn/Thru Arrow

402.4 PERMANENT PAVEMENT MARKINGS

- A. Work under this item shall be performed per ADOT Specifications Section 708.
1. Measurement shall be in accordance with ADOT Section 708-4 (Width times Length divided by 4 inches

equals LF as shown in bid schedule).

2. Basis for payment shall be in accordance with ADOT Section 708-5.

Pay Item: 402.4a Permanent Striping – Yellow Paint

Pay Item: 402.4b Permanent Striping – White Paint

404 LOOP DETECTORS

- A. Loop detectors shall be installed in base course of asphalt concrete pavement and conform to ADOT Specs Section 735 and 732-2.01, ADOT Traffic Signal and Lighting Standard Drawings (1985) 7-1. All loop detectors shall be installed per T.S. 7-1 Detail 2. Installation shall include the home runs and installation of loop wiring into the existing signal cabinet. The hardwiring in the cabinet will be accomplished by City forces.
- B. Prior to bidding the Contractor shall verify the location and layout of the existing detector loops and appurtenant home runs to ensure that home runs are re-established in their original configuration. Loop detectors shall be centered in lanes. Contractor shall verify loop layout with project inspector prior to installation.
- C. Payment shall be made on a per each installed basis.

Pay Item: 404 8' x 50' Quadrapole Loop Detectors, Complete

405.3.1 RESET PROPERTY PINS

- A. Existing property pins disturbed or covered in the course of the work shall be resurveyed and reset by a certified land surveyor or under direct supervision of a certified land surveyor. Pins shall be COP Standard Detail 120-1, Type C.

B. Measurement and Payment

No separate payment shall be made for Resetting Property Pins. This work shall be considered incidental and included in the unit price bid for construction or installation of the appropriate contract pay items.

405.3.2 SURVEY MONUMENT

- A. Survey monument Type "A" with cast iron frame and cover shall be placed as shown on the plans in accordance with COP Standard Detail 120-1, Type A and YAG and MAG Specifications Section 405.

B. Measurement and payment

Payment shall be based on a per each unit complete in place.

Pay Item: 405.3.2 Survey Monument

710 ASPHALT CONCRETE

MAG SECTION 710.2.1 Asphalt Binder: shall be deleted as replaced as follows:

- a. The asphalt binder shall be a Performance Grade (PG) PG 64-22 Asphalt conforming to the requirements of AASHTO M 320-09 Performance-Graded Asphalt Binder. The binder grade shall be as specified in the contract documents or as directed by the Engineer.
- b. The Public Works Director may review a request by the Contractor to change from a PG 64-22 binder

grade to a PG 64-16 grade. The owner may require the Contractor to provide supporting justification and/or data for changing the grade of binder from PG 64-22 to PG 64-16.

MAG SECTION 710.3.2 Mix Design Criteria: add the following:

- a. The intent of this supplement is to use only 1/2 inch or 3/4 inch Marshall or Gyrotory Mix Designs within the specification unless specifically called out in the project specifications.
- b. The asphalt mix design shall be for high traffic volume, unless otherwise specified.

MAG SECTION 710.3.2.1 Marshall Mix Design: make the following change:

- a. In Table 710-3 change the Tensile Strength Ratio minimum percent requirement from 65 to 75. A tensile strength ratio of 75 percent may require more than one percent mineral admixture.

725 PORTLAND CEMENT CONCRETE

- A. All Portland cement concrete placed under this contract shall be Class A in accordance with YAG and MAG Specifications Section 725, as designated on the Project drawings, and as modified herein.
- B. Subsection 725.6 shall be revised by adding: All Portland cement concrete shall contain 5%, plus or minus 1%, entrained air of evenly dispersed air bubbles at the time of placement. The air-entraining agent shall contain no chlorides. The air-entraining agent shall be added to the batch in a portion of the mixing water. The solution shall be batched by means of a mechanical batcher capable of accurate measurement. Air entrainment in the concrete shall be tested in accordance with AASHTO T-152. Air entrainment shall be tested at time of sampling in accordance with ASTM C143 and C231 respectively. The cost of this testing shall be the responsibility of the Contractor.
- C. Subsection 725.10 shall be revised by adding: The slump of Portland cement concrete shall be tested in accordance with the requirements of AASHTO T119, ASTM C143 and ASTM C231 respectively. Concrete that does not meet the specification requirements as to slump shall not be used, but shall be removed from the job at no cost to the Public Works Director. Slump tests will be taken in the field by a representative of the Contractor's quality control firm. The cost of this testing shall be the responsibility of the Contractor.
- D. Concrete cylindrical specimens for compression tests will be taken in the field by a representative of the Contractor's quality control firm in accordance with AASHTO T141 and T-23. These samples will be tested for compressive strength in accordance to AASHTO T22. Concrete samples will be taken in accordance with YAG & MAG 725.10 except as noted hereinafter. One set of not less than four (4) cylinders per fifty (50) cubic yards of 1/2 days pour shall be prepared and retained to verify compressive strength of the mixture. One (1) cylinder shall be tested at seven (7) days and two (2) at twenty-eight (28) days. The fourth (4th) cylinder shall be retained for up to sixty (60) days. If the 28-day test does not meet the minimum strength requirement, cores shall be taken as provided herein and the cost of such will be the responsibility of the Contractor. Acceptance shall be based on minimum 28-day strength requirements. The cost of testing shall be the responsibility of the Contractor.
- E. **ADVERSE WEATHER CONDITIONS.** Placement of all Portland cement concrete shall conform to the requirements of YAG & MAG Section 505.6.2. No separate payment shall be made for adverse weather concreting. The work shall be considered incidental and included in the unit price bid for construction or installation of the appropriate contract pay item.

SPECIAL PROVISIONS



Public Works Department

433 N. Virginia Street
Prescott AZ 86301
928-777-1130

FY 2016 PAVEMENT REHABILITATION PROJECT

SPECIAL PROVISIONS

The following Special Provisions shall modify and supersede the various sections of the City of Prescott Technical Specifications as indicated.

100.1 SCOPE OF WORK

Add the following:

SP 100.1.D PROJECT SEQUENCING

1. The Contractor shall schedule his work as follows:

Once work is begun on Gail Gardner Way, the work shall be prosecuted to completion with no gaps between milling, installation of traffic loops, and paving operations.

Work shall not commence on Gateway Boulevard until the paving operation is complete on Gail Gardner Way. Once work is begun on Gateway Boulevard, the work shall be prosecuted to completion with no gaps between milling, installation of traffic loops, and paving operations.

The Contractor shall schedule his work such that the asphalt pavement overlay on Norma Lane is completed prior to placement of the slurry seal coat in all of Horizon Hills. The slurry seal coat on Norma Lane shall be placed concurrent with the slurry seal coat on the rest of the streets in the Horizon Hills Subdivision to provide for one continuous finished surface.

SP 100.1.E CONTRACTOR QUALIFICATIONS

1. The successful lower bidder must demonstrate experience in the placement of microsurfacing. The successful low bidder shall submit verification of having completed 160,000 square yards or more of Type III Microsurfacing for state, county, or municipal agencies within the last five years. Said submittal shall contain contact information for those agencies that have firsthand knowledge of the firm's experience and quality of workmanship. Said submittal shall be included in the bid package.
2. Should the microsurfacing work be subcontracted, the same requirements apply to the designated subcontractor. It shall be the prime contractor's responsibility to assure that these requirements are met.
2. The City reserves the right to reject any and all bids for which these qualifications are not met.

105.8 CONSTRUCTION STAKING AND AS-BUILT PREPARATION

Replace 105-8 with the following:

- A. Construction staking shall be the responsibility of the Contractor. The control for the project is provided in the Contract Documents. The Contractor shall be held responsible for preservation of control monumentation. If any of the control monumentation has been carelessly or willfully destroyed or disturbed by the Contractor, the cost of replacing them will be charged against him and will be deducted from the payment of work.

To assure the restoration of disturbed traffic striping in its current configuration, it shall be the Contractor's responsibility to have all traffic striping surveyed in advance of the work and laid back out for placement of traffic striping by survey.

To assure that all utility covers on the mill/overlay streets are correctly located, identified, and correctly adjusted to finish grade, it shall be the Contractor's responsibility to have all existing utility covers surveyed in advance of the work and laid back out by survey for final adjustment to finish grade.

To assure accurate computation of milling and asphalt concrete pavement quantities, it shall be the Contractor's responsibility to have the areas to be milled and overlaid with new asphalt concrete pavement surveyed to determine actual quantities.

At completion of paving the Contractor shall submit to the City for approval a certified survey of the actual square yards of asphaltic concrete paving, which shall also be utilized to determine the actual quantity of milling. The certified results shall be itemized per the project bid schedule. The surveyor shall provide the procedures used in obtaining the quantities.

- B. Survey and layout shall be performed and certified by a Registered Land Surveyor in good standing with the Arizona State Board of Technical Registration.
- C. Field notes and record drawings shall be provided to the Public Works Director, to include certification as to the accuracy of the quantities installed.
- D. The Public Works Director’s representative and the Contractor’s Superintendent shall meet monthly or as necessary to jointly measure all work items under the contract to determine pay quantities for each pay period. Quantities of work items shall be documented on the respective plan sheets and separately in tabular fashion with Station to Station measurements noted to assure there is no duplication of payment for work performed. Measurements will be for work actually completed. No projections for expected completion of work will be allowed.
- E. All survey data will be international feet for horizontal and vertical, NAVD 88 for vertical and City of Prescott coordinates. For horizontal please refer to the City of Prescott Survey Datum Requirements below.

City of Prescott Survey Datum Requirements

Coordinate Units:	International Feet
Distance Units:	International Feet
Height Units:	International Feet
Vertical Datum:	NAVD 88
<u>State Plane</u>	
Coordinate System:	US State Plane 1983
Datum:	(WGS 84)
Zone:	Arizona Central 0202
Geoid Model:	Geoid99 (Conus)

City of Prescott - Conversion from State Plane
 Northing: (State Plane x 1.000329975) -
 701,456.0090
 Easting: (State Plane x 1.000329975) +
 69,457.2499

State Plane - Conversion from City of Prescott
 Northing: (City of Prescott + 701,456.0090) x 0.999670134
 Easting: (City of Prescott - 69,457.2499) x 0.999670134

F. Measurement And Payment

- 1. The quantity of “Construction Staking” measured for payment shall be the lump sum bid by the Contractor. The contract unit price per lump sum paid for “Construction Staking” shall be full compensation for all labor, materials, and equipment to perform the construction staking as described in this section.

Pay Item: 105.8 Construction Staking

107.11 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Replace 107.11 with the following:

It is anticipated that this project will not be subject to the requirements of the Arizona Pollutant discharge Elimination System (AZPDES) storm water requirements for the construction sites because each site will have less than one tenth of an acre (0.1 ac.) of surface disturbance. However, the Contractor will be required to install, operate and maintain Best Management Practices (BMP's) for containment and disposal of concrete debris, waste and runoff from the construction activities at each site.

- A. The Contractor shall appoint and identify for the City the person responsible for the implementation of the BMP's.
- B. The Contractor shall submit to the City for review and approval a copy of the BMP's proposed for use and implementation at each of the sites. No repair work shall commence until this submittal is approved and the BMP's installed, inspected and approved.
- C. It is the Contractor's responsibility to perform inspection of all BMP's on a weekly basis, on a daily basis of mechanical equipment is involved or following each measurable rainfall at the project site. The Contractor shall coordinate with the City's Project Manger and inspector prior to each inspection. The Contractor shall inform them as to the results of these inspections and any corrective actions taken.
- D. Upon total project completion, acceptance and demobilization, the Contractor shall remove all BMP's and restore the surface to prior grades and condition.
- E. No separate measurement or payment shall be made for submittals, installation, operation and maintenance of BMP's required for this project. Such costs shall be considered incidental to the work and included in other bid items.

205-1 EARTHWORK AND ROADWAY EXCAVATION

Replace 205-1.H with the following:

H. Measurement and Payment

- 1. No separate measurement or payment shall be made for Earthwork and Roadway Excavation. Payment for Earthwork and Roadway Excavation shall be included in the unit cost for Pavement Repairs.

300-1 SAW CUT

Replace 300-1.C with the following:

C. No separate measurement or payment shall be made for Saw Cutting. Payment for saw cutting shall be included in the unit cost for work for which saw cutting is required.

301 SUB-GRADE PREPARATION

Replace MAG Section 301.1 with the following:

- A. Work under this item shall be per Y.A.G. Standards Section 301.
- B. No separate payment shall be made for Sub-grade Preparation. Payment for Sub-grade preparation shall be included in the unit cost for work for which sub-grade preparation is required.

310.2 AGGREGATE BASE COURSE

Replace 310.2.F with the following:

F. No separate measurement or payment shall be made for aggregate base course. Payment for aggregate base course shall be included in the unit cost for work for which aggregate base course is required.

317 MILLING OF ASPHALTIC CONCRETE PAVEMENT

Replace 317 with the following:

- A. General
 - 1. Prior to milling operation and roadway excavation, all existing manholes, valve boxes, etc. shall be lowered and protected. All City facilities shall be protected from debris that may result from any adjustments and the Contractor shall be responsible for any maintenance activity resulting from debris related to the construction. No separate payment shall be made for lowering and protecting existing manholes, valve boxes, etc.
 - 2. The existing asphalt concrete pavement sections shall be removed in accordance with the details shown on the project plans and shall be accomplished with equipment specifically designed to remove such material by means of grinding or chipping to a controlled line and grade within 0.02 feet. Equipment not specifically designed to remove material in this manner shall not be used. The removal shall be accomplished in

a manner which does not result in a contamination of the milled asphaltic concrete with the underlying base material. The removal of asphalt concrete pavement at the approaches to structures shall be accomplished in a manner approved by the City.

3. Once begun, the milling shall proceed in a continuous operation until practicable to commence with the paving operation. To provide for a smoother transition for traffic, the Contractor shall place temporary ramps of cold mix asphalt at the ends of the milled area where joining existing pavement. Temporary ramps shall be 3 feet long for the full width of the milled area. Temporary ramps shall also be placed at the milled edge to cross streets. Temporary ramps shall be maintained until the paving operation is ready to commence, at which time temporary ramps shall be removed and properly disposed of.

The milled surface shall be uniform and free of loose material.

4. Under no circumstances shall the removal of the existing asphalt concrete pavement begin until the mix design for asphalt concrete production has been approved by the City.

B. Procedures

1. Asphalt concrete pavement adjacent to manholes, valve boxes, etc., shall be removed with equipment specifically designed to operate in restricted areas and capable of removing asphalt concrete pavement of the specified thickness without damage or displacement of the adjacent object.
2. Asphalt concrete pavement material that exists on and above the gutters along the project shall be carefully removed with equipment that will not damage the concrete curb and gutter section.
3. The Contractor's attention is directed to the possibility of encountering Portland Cement Concrete Pavement (PCCP) under the asphalt concrete pavement to be milled. The quantity of asphalt concrete pavement to be removed may vary considerably from the quantity being replaced due to the asphalt concrete pavement build-up over existing gutter elevations and due to change in finish cross-sections. The centerline existing grade will be maintained and the milling depth will be such to match existing or new concrete gutter lip elevation with the replaced asphalt.
4. Upon removal, the excess existing asphalt concrete material shall be delivered, off-loaded and stock-piled by the Contractor to the City Waste Transfer Station on Sundog Ranch Road at a location on site determined by the City. The millings will then become the property of the City.
5. In the event of circumstances beyond the control of the Contractor, such as equipment breakdown, or if his production of the new asphalt concrete has been stopped by the City and he is unable to comply with the requirements of this section, the Contractor shall provide and maintain such traffic control devices that the City deems necessary

under the circumstances in order to provide safe and efficient passage through the work zone.

6. The Contractor will be required to provide for surface drainage of milled areas.
7. Pavement striping that has been removed by the milling operation shall be replaced with temporary pavement markings before the end of the working day or night, as required, in order to provide proper delineation of traffic lanes.

C. Measurement And Payment

Milling of asphalt concrete pavement will be measured by the surface square yard of pavement removed as provided in the bid schedule.

The accepted quantities for milling of asphalt concrete pavement will be paid for at the contract unit price per square yard, complete, including breaking up, loading, hauling, and stockpiling the removed material.

No separate payment shall be made for milling of pavement repairs or cracks repairs. Such payment shall be considered incidental to the pavement repair or crack repair.

Pay Item: 317.3a - Mill Asphalt Pavement – 2” to 2.5” Nominal Depth

321 ASPHALT CONCRETE PAVEMENT

Add Section 321.8.7 as follows:

321.8.7 PAVEMENT FABRIC INTERLAYER

- A. Pavement fabric shall be a non-woven, polypropylene paving fabric between the overlay and existing asphaltic concrete per ADOT Specifications Sections 412 and 1014-2 and per the manufacturer’s recommendations.
- B. Payment shall be per square yard covered. No payment shall be made for overlaps.
- C. For the pavement fabric interlayer, the asphalt binder coat shall be PG 64-16 and per ADOT Specifications Section 412.
- D. Payment for the asphalt binder coat shall at the unit bid price for Pavement Fabric Asphalt Binder Coat in the Bid Schedule.
- E. No separate payment shall be made for the tack coat required on Norma Lane. Such payment shall be considered incidental to the asphalt concrete pavement overlay.

Pay Item: 321.8.7a – Pavement Fabric Interlayer

Pay Item: 321.8.7b – Pavement Fabric Asphalt Binder Coat

Replace Section 321-12 Measurement as follows:

- a. Measurement and payment shall be to the nearest square yard, complete and in place, as verified by survey.
- b. No separate payment shall be made for asphalt concrete pavement for pavement repairs, cracks repairs, or curb and gutter replacement. Such payment shall be considered incidental to the pavement repair.

Pay Item: 321.13a – A. C. Pavement Overlay – 2” Thick

Add Section 321.15 as follows:

321.15 PAVEMENT REPAIRS

- A. Payment for saw cutting (or milling), removals, roadway excavation, subgrade preparation, aggregate base course, and asphalt concrete pavement shall be considered incidental to Pavement Repair Type 1. Payment shall be per square foot for the complete Type 1 Pavement Repair in place.
- B. No separate payment shall be made for emulsified bituminous tack coat. Such payment shall be considered incidental to the work for which emulsified bituminous tack coat is required.

Pay Item: 321.15a – Pavement Repair Type 1 (SF)

Add Section 321.16 as follows:

321.16 CRACK SEALING

- A. On the mill/overlay streets after milling and prior to placement of pavement fabric and asphalt concrete pavement overlay, the Contractor shall perform crack sealing per these specifications. By visual inspection the City will determine the limits of the crack sealing.

Prior to commencing with placement of microsurfacing and of rubber chip seal the Contractor shall perform crack sealing per these specifications. By visual inspection the City will determine the limits of the crack sealing.

- B. Cleaning of Cracks

Cleaning of cracks is required to produce a reservoir for crack sealant at the top of the cracks to receive the sealant without an excess of material above or alongside the crack. The use of compressed air jet will be allowed and should produce a reservoir at least 3/8

inch wide and 3/8 inch deep. Crack sealing should be confined to the joint reservoir to the greatest extent possible to minimize joint sealant application to the surface of adjacent pavement. Sealant shall be flush or slightly below the existing pavement surface. Upon completion of work each day, the work area shall be swept clean by the use of a vacuum pick up broom. Kick brooms will not be allowed.

C. Fill Cracks

Section Includes:

Elastomeric hot applied crack and joint sealing in asphalt or Portland Cement Concrete.

References

A. American Society for Testing and Materials (ASTM)

1. D 1190 Specification for Concrete Joint Sealant, Hot Applied Elastic Type
2. D 3405 Specification for Joint Sealants, Hot Applied, for Concrete and Asphalt
3. D 5329 Test Methods for Sealants and Fillers, Hot Applied, for Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements

System Description

Provide all plant, product and installation of sealant.

Submittals

A. Product Data

1. Submit manufacturer's printed Product Data Sheet.

Quality Assurance

A. Certification

Contractor to submit a letter stating that equipment used to heat the material meets requirements of this specification.

Contractor to submit a letter stating that equipment used to heat the material complies with the manufacturer's recommendation for product handling.

B. Test Reports

1. Upon request the Contractor will submit manufacturer's test results on products used.

Project/Site Conditions

A. ENVIRONMENTAL REQUIREMENTS

1. Apply sealant only to clean, dry, properly prepared cracks and joints.
2. At ambient temperatures below forty (40) degrees F. use a hot compressed air lance to achieve clean, dry, warm space for sealant installation.

Existing Conditions

- ##### A. Cracks and joints under one eighth (1/8) inch width are not covered under this specification unless stipulated in writing by Public Works Director.

B. Cracks and joints over one eighth (1/8) inch are to be addressed by means of the use of a compressed air jet to remove all loose materials and assure the sidewalls of cracks are clean and dry.

Materials

No material will be acceptable unless approved by the Public Works Director in writing prior to placement.

The crack seal material shall be a hot applied elastomeric crack/joint sealant for asphaltic and concrete pavements.

The material when heated in accordance with ASTM5078 shall possess these characteristics:

Test	Specification limits
Cone Test ASTM D3407	30-60
Cone Penetration @39.2deg. F, 200g 60 sec.	15 min
Resilience ASTM D3407	40% min
Ductility, 77 deg.F. ASTM D114	13 cm min.
Ductility, 39.2 deg.F. ASTM D114	10 cm min.
Flow ASTM D3407	3 mm Max.
Flexibility (Crafco procedure)	Pass @ 20 deg. F
Flashpoint COC ASTM D92	450 deg. F Min
Asphalt Compatibility ASTM D3407	Pass
Bitumen Content ASTM D4	60% min
Tensile Adhesion ASTM D3583	500% min
Safe Heating Temperature	400 deg. F
Recommended Pour Temperature	380 deg. F

Equipment

- A. The equipment used to melt and apply this material shall be in good working condition and comply with the material manufacturer's requirements.
- B. The kettle to be used must have constant agitation any time material is over three hundred (300) degrees F. The kettle must have temperature-monitoring capabilities.
- C. Roofing kettle melters are not acceptable.

Execution

Examination

- A. Inspect existing pavement for conditions and defects that will adversely affect quality of work and which cannot be put into acceptable condition through normal preparatory work as specified.
- B. Starting installation constitutes contractor's acceptance of surface as suitable for installation.

Preparation

A. Cracks

- 1. Remove vegetation and all debris from cracks and joints by means of routing or compressed air lance.

B. Sealant

1. Prepare sealant in specified equipment.
2. Heat sealant according to manufacturer's Product Data Sheet.

Application

- A. Install heated sealant directly into cracks and joints not to exceed a one- (1) inch wide band.

- C. Finished sealed cracks and joints will be uniformly level and all "sinkers" will be refilled to achieve flush to one eighth (1/8) inch concave surface appearance.

Protection

Care must be taken to keep the public from work area while sealant is being installed and traffic should not be allowed to cross sealant filled cracks and joints for a period of ten (10) minutes.

Method of Measurement

Rout and fill cracks will be measured as linear feet complete in accordance with these Specifications and as accepted by the Public Works Director.

Basis of Payment

Payment will be made at the contract price per linear foot for the use of a compressed air jet to remove all loose materials and assure the sidewalls of cracks are clean and dry, and fill cracks. This price will be full compensation for all work detailed in this section including air jetting and crack sealing, and for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the item.

Pay Item: 321.16 – Crack Sealing

Add Section 331 as follows:

331 MICROSURFACING

- A. All work under this item shall be per MAG Section 331 except as modified herein.
- B. In lieu of a polymer modified asphalt emulsion, a latex modified emulsion with a PMQCS-1h with a minimum of 3.5% or 4% SBR latex based on weight of emulsion will be allowed.

C. The Contractor shall place a 500 foot long test strip at a site designated by the City prior to commencing with placement at the plan sites.

D. Measurement and Payment

1. Measurements and payment shall be per MAG Section 331.8, per ton.
2. The target application rate for Type III Microsurfacing shall be 30 pounds/square yard. Payment shall only be made up to the upper end of the application range of 35 pounds/square yard. No extra payment shall be made for exceeding 35 pounds/square yard. An application rate under 28 pounds/square yard will be rejected and no payment shall be made.

Pay Item: 331.8a – Microsurfacing Dry Aggregate

331.8b – Microsurfacing Emulsified Asphalt

Add Section 332 as follows:

332 ASPHALT EMULSION SLURRY SEAL COAT

- A. All work under this item shall be per MAG Section 332 except as modified herein.
- B. Asphalt Emulsion Slurry Seal Coat shall be Type II.
- C. In Table 715-1 Pounds of Aggregate per Square Yard shall be 16 – 18.
- D. Payment shall be per square yard covered. Payment for providing a product of less than 16 pounds per square yard shall be reduced by 10% for each pound under 16 per square yard.
- E. The successful lower bidder must demonstrate experience in the placement of asphalt emulsion slurry seal. The successful low bidder shall submit verification of having completed 160,000 square yards or more of Type II asphalt emulsion slurry seal for state, county, or municipal agencies within the last five years. Said submittal shall contain contact information for those agencies that have firsthand knowledge of the firm's experience and quality of workmanship. Said submittal shall be included in the bid package.
- F. Should the asphalt emulsion slurry seal work be subcontracted, the same requirements apply to the designated subcontractor. It shall be the prime contractor's responsibility to assure that these requirements are met.

G. The City reserves the right to reject any and all bids for which these qualifications are not met.

Pay Item: 332.9 – Asphalt Emulsion Slurry Seal Coat

340.1 CONCRETE CURB, GUTTER, AND CURB TERMINATIONS

TS 340.1 – Is supplemented as following:

- G. Payment for roll curb and gutter replacement shall include all demolition, removals, excavation, subgrade preparation, restoration of disturbed features, and all work necessary to produce a finished product.
- H. Payment for vertical curb, gutter, and sidewalk replacement on S. Montezuma Street shall include all demolition, removals, excavation, subgrade preparation, restoration of disturbed features, and all work necessary to produce a finished product. Payment shall be per linear feet of the total replacement.

Pay Item: 340.1a – Concrete Roll Curb Replacement (LF)

Pay Item: 340.1b – Concrete Vertical Curb, Gutter, and Sidewalk Replacement (LF)

340.2 CONCRETE SIDEWALK, SIDEWALK LANDING AND RAMP

TS 340.2 – Is supplemented as following:

- I. Payment for curb ramp upgrades shall include all demolition, removals, excavation, subgrade preparation, restoration of disturbed landscape features, and all work necessary to produce a finished product, to include detectable warning panels.
- J. Handicap ramps at Gateway Boulevard and State Route 69 shall be per ADOT Standard Detail C-05.30 and per ADOT Standard Specification 908. No separate or extra payment shall be made for meeting these requirements.

Pay Item: 340.2 – Concrete Handicap Ramp Upgrade

345.1 ADJUST MANHOLES, VALVES AND CLEANOUTS

Replace Section 345-1 as follows:

- A. All frames, covers, valve boxes, manholes, etc., shall be adjusted to finished grade after placement of asphalt concrete surface course by the Contractor per COP Standard

Details 270P, 3-15P, and 4-05P. The Contractor shall provide and install new water valve risers, caps, and debris caps. The Contractor shall provide and install new sewer rings, frames, and manhole covers. New sewer manhole covers shall have the City logo of Thumb Butte. Old rings and covers shall be salvaged to the City Sewer Operations Facility.

- B. To expedite the cure time of concrete collars on utility covers, survey monuments, and manholes, the Contractor shall utilize a high/early concrete mix equivalent to a minimum 5,000 psi 28 day strength. Traffic may not be allowed to traverse over the collars until the concrete has reached 3,000 psi. Payment for high/early concrete shall be considered incidental to the item being adjusted to grade.
- C. During the raising of utility covers to finish grade, demolished material and left over concrete shall not be placed directly onto new pavement or slurry seal coat. Such material shall be stockpiled on tarps as a minimum and properly disposed of to avoid staining the new pavement surface.
- D. Payment shall be made on a per each basis for adjusting manholes, cleanouts, and valves to finish grade. Payment for new sewer manhole rings, frames, and covers shall be incidental to adjusting manhole frames and covers. Payment for new water valve risers, covers, and debris caps shall be incidental to adjusting water valve boxes to finish grade.

Pay Item: 345.1a – Adjust Sewer Manhole Frame and Cover

Pay Item: 345.1b– Adjust Sewer Cleanout Frame and Cover

Pay Item: 345.1c – Adjust Telephone Manhole Frame and Cover

Pay Item: 345.1d – Adjust Storm Drain Manhole Frame and Cover

Pay Item: 345.1e – Adjust Water Valve Box and Cover

350.1 REMOVAL OF EXISTING IMPROVEMENTS

Replace Section 350.1 as follows:

- A. Work under this item shall be performed in accordance with ADOT Specifications Section 202, as designated on the project drawings and as modified herein.
- B. ADOT Specifications subsection 202-1 shall be revised by adding the following: All existing utilities not designated for removal shall remain in place and be protected against damage.
- C. No item shall be removed if designated by the Public Works Director to remain in place. Such items shall be protected from damage.
- D. ADOT Specs subsection 202-3.03, paragraph B shall be revised to read: All bituminous pavements to be removed shall be removed from the job site and disposed of at a site secured by Contractor, except as modified in Section 317.

- E. **No separate measurement or payment** shall be made for removal of existing improvements. Removal of existing asphalt concrete pavement, sidewalks, handicap ramps, underlying materials, and all other removals called for on the plans shall be considered included in the item of work that is being removed and constructed or reconstructed. This work shall be considered incidental and included in the unit price bid for construction of the appropriate contract pay items.

370 RUBBER CHIP SEAL

Modified as follows:

Delete requirement for Flush Coat (Fog Seal). The Flush Coat (Fog Seal) is not needed as each rubber chip seal section is to receive a cape seal.

404 LOOP DETECTORS

Modified as follows:

- A. Disturbed traffic detector loops shall be replaced by COP personnel.
- B. The intention is to place the loops in the base course of pavement after the existing pavement is milled and prior to placement of the pavement fabric and asphalt concrete pavement overlay. The contractor shall coordinate said replacement of disturbed traffic loops with COP personnel.
- C. **Measurement and payment**
 - 1. No separate or extra payment shall be made for coordination of detector loop replacements.

405.3.2 SURVEY MONUMENT

Replace 405.3.2 with the following:

- D. Disturbed survey monuments shall be restored and adjusted to finish grade with Survey Monument Type "A" with cast iron frame and cover in accordance with COP Standard Detail 120-1P and YAG and MAG Specifications Section 405.

E. Measurement and payment

- 2. Payment shall be based on a per each unit complete in place.

Pay Item: 405.3.2 Adjust Survey Handhole Frame and Cover



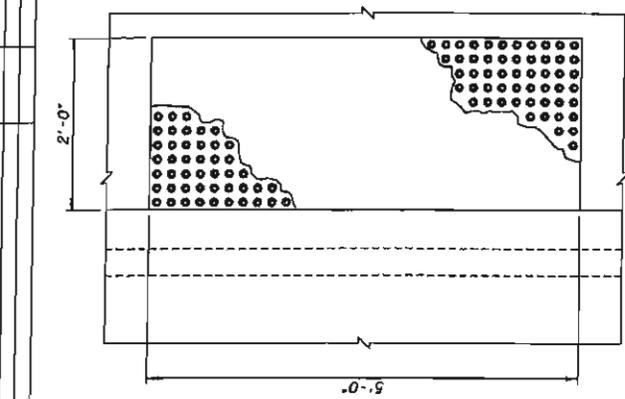
Public Works Department

433 N. Virginia
Street
Prescott, AZ 86301
(928) 777-1130

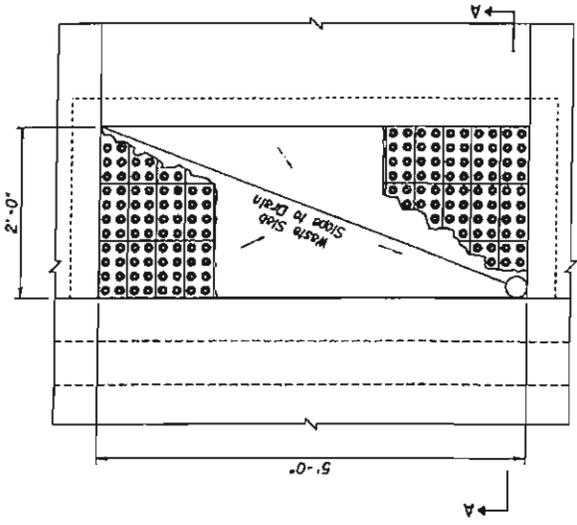
FY 2016 PAVEMENT REHABILITATION PROJECT

APPENDIX

NO.	DESCRIPTION OF REVISIONS	DATE
1	REVISED VIEW & DIMENSIONS	5/12
2		
3		
4		



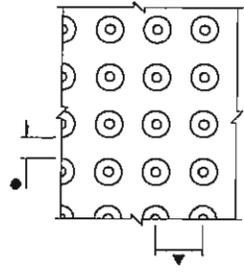
DETECTABLE WARNING STRIP
BRICK OPTION



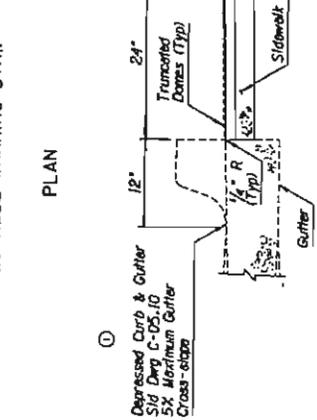
DETECTABLE WARNING STRIP
BRICK OPTION

GENERAL NOTES

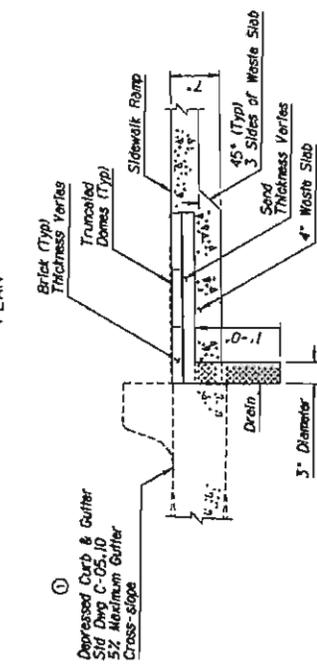
- Drain shall be placed in low corner and filled with coarse aggregate (ASTM M 33 Size 7) securely tied in a long-life geotextile sock.
- LEGEND
- 1/8" Minimum (Typ) (0.65 in. Minimum ADA Actual)
 - ▲ 1 1/8" to 2 1/8" (Typ) (1.6 in. to 2.4 in. ADA Actual)
 - 1/8" to 1 1/8" (Typ) (0.9 in. to 1.4 in. ADA Actual)
 - 50% to 65% of ■



TEXTURE PATTERN DETAIL

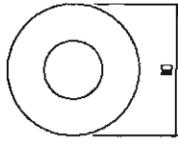


SECTION

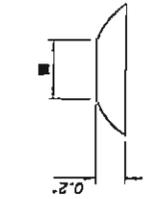


DETECTABLE WARNING STRIP
BRICK OPTION

SECTION A-A



TRUNCATED DOME
DETAIL



TRUNCATED DOME
ELEVATION

DETECTABLE WARNING STRIP DETAIL

APPROVED FOR RELEASE	REV.
APPROVED FOR RESTRICTION	5/12
STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	PROJECT NO. C-05.30
SIDEWALK RAMP DETECTABLE WARNING STRIP	SHEET NO. 2 of 7

SECTION 907

that this estimated quantity is substantially correct.

907-5 Basis of Payment:

No direct payment will be made for Dampproofing and Waterproofing Concrete Surfaces. The cost of furnishing and applying all materials shall be considered as included in the contract price paid for concrete of the class treated.

SECTION 908 CONCRETE CURBS, GUTTERS, SIDEWALKS AND DRIVEWAYS:

908-1 Description:

The work under this section shall consist of furnishing all materials and constructing Portland cement concrete curb, curb and gutter, ramp curb, sidewalk, sidewalk ramps, driveways, and valley gutters at the locations shown on the project plans in accordance with the details shown on the plans and the requirements of these specifications.

908-2 Materials:

908-2.01 Concrete:

Concrete shall be Class B concrete conforming to the requirements of Section 1006.

908-2.02 Expansion Joint Filler:

Expansion joint filler shall be 1/2-inch bituminous or nonbituminous preformed strips conforming to the requirements of Subsection 1011-6.

908-2.03 Concrete Curing Compound:

Curing compound shall be liquid membrans-forming compound conforming to the requirements of AASHTO M 148, Type I, Class A.

908-2.04 Detectable Warning Strip:

Detectable warning strips shall consist of a pre-fabricated mat with truncated domes aligned in a square grid matrix on a flat substrate, or other pre-fabricated materials meeting the requirements of the Standard Drawings. Detectable warning strips shall contrast visually with the sidewalk ramp, and shall conform to the current requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Detectable warning strips shall be pre-fabricated from durable material approved by the Department. All detectable warning strips installed within the project limits shall be the same type, unless shown otherwise on plans or approved by the Engineer.

SECTION 908

Only those pre-fabricated detectable warning strips shown on the Department's Approved Products List (APL) shall be used. Copies of the most current version of the APL are available on the internet from the Arizona Transportation Research Center (ATRC), through its PRIDE program.

908-3 Construction Requirements:

The subgrade shall be constructed in reasonably close conformity to the lines and grades established or shown on the project plans.

Prior to placing concrete curb, curb and gutter, driveway, valley gutter, sidewalk ramp, or sidewalk, the material on which they are to be placed shall be compacted to a depth of at least six inches to a density of not less than 95 percent of the maximum density determined in accordance with the requirements of the applicable test methods of the ADOT Materials Testing Manual as directed and approved by the Engineer.

All soft or unsuitable material shall be removed to a depth of not less than six inches below subgrade and replaced with material approved by the Engineer.

Single curb, curb and gutter, and sidewalk shall be constructed either by the use of conventional fixed forms or by slip-form curb and sidewalk placing machines.

Weather and temperature limitations for the placement of concrete shall be in accordance with the requirements of Subsection 1006-5.

Forms shall be maintained at all times in good condition as to accuracy of shape, strength, rigidity and smoothness of surface. The depth of face forms for concrete curbs shall be equal to the full face height of the curb.

All other forms shall be set to form the full depth of all edges not formed by adjacent concrete. Forms unsatisfactory in any respect shall not be used.

Forms shall be set in reasonably close conformity to the dimensions, lines and grades shown on the project plans or established by the Engineer and be securely staked in position. Clamps, spreaders, and braces shall be used where required to insure rigid forms.

When the roadway section slopes away from the gutter, the slope of the gutter shall be formed to match the roadway cross slope.

The subgrade and forms shall be watered immediately in advance of placing concrete. Concrete shall be placed in the forms and thoroughly consolidated. The concrete shall be consolidated by means of approved mechanical vibrators or by tamping or spading by hand. The fresh concrete shall be struck off so the surface will be at the proper elevation when the concrete is consolidated. Concrete shall be

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO CENTRAL YAVAPAI COUNTY GOVERNMENTS UNIFIED CONSTRUCTION STANDARDS AND SPECIFICATIONS (YAG STANDARDS), LATEST REVISIONS, UNLESS MODIFIED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF YAG, MAG, AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- ALL PLANS SIGNED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED.
- ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
- A CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMIT WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
- THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR AND/OR ALL WORK MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- DRAWINGS ARE SCHEMATIC AND NOT TO SCALE. UNDERGROUND UTILITIES ARE NOT TYPICALLY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING A COMPLETE AND ACCURATE ON-SITE DETERMINATION OF THE LOCATIONS OF ALL UTILITIES, STRUCTURES, AND FIELD CONDITIONS WHICH MAY AFFECT THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES AND UTILITIES ENCOUNTERED DURING CONSTRUCTION AND SHALL FIELD EXPOSE EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING IN THEIR VICINITY.
- THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE (1-800-STAKE-IT) TWO WORKING DAYS (48 HOURS) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL, TRAFFIC CONTROL PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE AND SUBMIT FOR APPROVAL THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC CONTROL PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR ONE WEEK IN ADVANCE FOR REVIEW AND APPROVAL.
- APPROPRIATE EMERGENCY AGENCIES SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CLOSING OF STREETS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYING AND LAYOUT.
- THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL MEASURES SUFFICIENT TO PRODUCE MATERIALS AND WORKMANSHIP OF ACCEPTABLE QUALITY. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN. THE CONTRACTOR AT HIS OWN EXPENSE SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL FIRM TO PERFORM QUALITY CONTROL TESTING SUCH AS SOILS AND CONCRETE TESTING, AND FULL TIME ASPHALTIC CONCRETE LAYDOWN COMPACTION TESTING AND ADEQUATE PLANT CONTROL FOR EACH PAVING DAY. THE CITY, BY SEPARATE CONTRACT, WILL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RE-WORK AND REMOVAL AND REPLACEMENT OF ALL MATERIALS AND/OR WORKMANSHIP REPRESENTED BY FAILING TEST.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
- THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
- THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND INFRASTRUCTURE. ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
- STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
- BACKFILL COMPACTION SHALL BE TYPE I (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
- AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED BY THE CONTRACTOR AND ACCEPTED BY THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE.
- ALL ASPHALT CONCRETE PAVEMENT SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY OF PRESCOTT. ASPHALT CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
- ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE BY THE CONTRACTOR PER COP STANDARD DETAILS 270P, 3-15P, AND 4-05P.
- ALL CONCRETE TO BE AT LEAST 3000 PSI CLASS "A" PORTLAND CEMENT CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXPANSION JOINTS TO BE SEALED WITH 1/2" EXPANSION JOINT, PRE-FORMED JOINT FILLER AND SEALER, IN ACCORDANCE WITH MAG SECTION 729.
- THE CONTRACTOR SHALL IMPLEMENT BEST-HOUSE-KEEPING MEASURES, AND EROSION AND SEDIMENT CONTROL MEASURES, TO PREVENT THE INVASION OF CONSTRUCTION MATERIALS INTO DRAINAGE INLETS, STORM DRAIN MANHOLES, UTILITY STRUCTURES, OR ONTO ADJACENT STREETS AND PROPERTIES.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
- THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FINAL ACCEPTANCE OF THE WORK.

FY 2016 PAVEMENT REHABILITATION PROJECT

MAYOR
MARLIN KUYKENDALL

CITY COUNCIL
JIM LAMERSON
STEVE BLAIR
CHARLIE ARNOLD
CHRIS KUKYNO
GREG LAZZELL
JEAN WILCOX



CONSTRUCTION NOTES:

- REMOVE BY MILLING EXISTING A. C. PAVEMENT 2" DEEP. WHERE EXISTING A. C. PAVEMENT IS HIGHER THAN THE EXISTING EDGE OF GUTTER, MILL A. C. PAVEMENT TO 2" BELOW EDGE OF GUTTER AND TAPER TO 2" DEEP OVER WIDTH OF ADJACENT LANE. PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. THOROUGHLY CLEAN MILLED PAVEMENT AND INSTALL PAVEMENT FABRIC IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- SAWCUT AND REMOVE EXISTING HANDICAP RAMP TO THE DEPTH NECESSARY TO CONSTRUCT HANDICAP RAMP UPGRADE. RESTORE WITH 4" THICK PCC OVER 4" THICK AGGREGATE BASE COURSE OVER SCARIFIED AND COMPACTED SUBGRADE MATERIAL, TO INCLUDE TRUNCATED DOMES. NEW CONCRETE SHALL NEATLY JOIN EXISTING CONCRETE. CONSTRUCT PER COP STD DETAIL 231P MODIFIED TO FIT EXISTING CONDITIONS.
- CONSTRUCT PAVEMENT REPAIR TYPE 1 PER THE TYPICAL SECTION ON SHEET B.
- PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT 3/8" THICK MICROSURFACING SEAL COAT PER MAG SECTION 331 AS MODIFIED IN THE SPECIAL PROVISIONS. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT TYPE "B" MULTI-LAYER SEAL COAT. TYPE "B" MULTI-LAYER SEAL COAT SHALL CONSIST OF 3/8" AGGREGATE RUBBERIZED CHIP SEAL AS THE FIRST COURSE, FOLLOWED BY TYPE II SLURRY SEAL FINISH COURSE. CHIP SEAL COAT SHALL BE THOROUGHLY SWEEPED OF LOOSE CHIPS PRIOR TO PLACEMENT OF TYPE II SLURRY SEAL COAT. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- THOROUGHLY CLEAN EXISTING PAVEMENT. APPLY TACK COAT AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. CONSTRUCT TYPE II SLURRY SEAL PER MAG SECTION 332 AS MODIFIED IN THE SPECIAL PROVISIONS. SLURRY SEAL COAT SHALL BE CONSTRUCTED CONCURRENT WITH SLURRY SEAL COAT ON ADJACENT STREETS.
- THOROUGHLY CLEAN EXISTING PAVEMENT AND CONSTRUCT CONVENTIONAL ASPHALT CHIP SEAL, 3/8" LOW VOLUME AGGREGATE PER THE SPECIFICATIONS. ADJUST ALL EXISTING UTILITY FRAMES AND COVERS TO FINISH GRADE. ALL CHIP SEALED SURFACES SHALL BE FOG SEALED.
- SAWCUT AND REMOVE EXISTING ROLL CURB AND RECONSTRUCT PER COP STANDARD DETAIL 220P OVER 4" THICK ABC.
- SAWCUT AND REMOVE EXISTING VERTICAL CURB, GUTTER, AND SIDEWALK. RECONSTRUCT PER APPLICABLE COP STANDARD DETAILS. PROTECT IN PLACE AND ADJUST TO GRADE EXISTING WATER METER BOXES. REMOVE ABANDONED UTILITY POLE TO BOTTOM OF EXCAVATION.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-05P, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

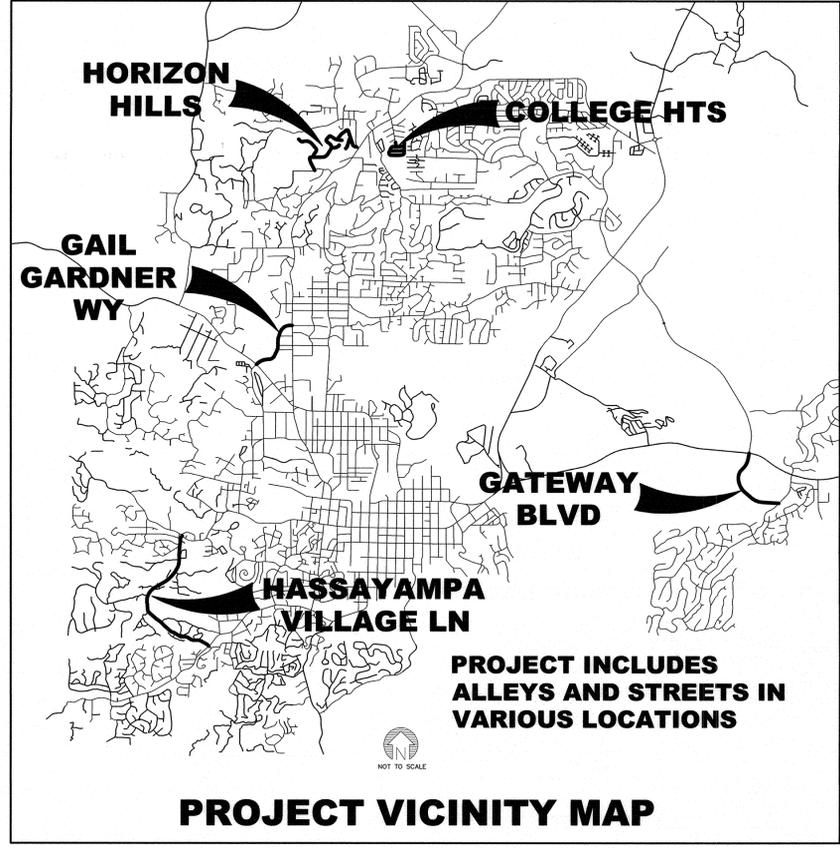
LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

DISTURBED TRAFFIC LOOPS SHALL BE RESTORED BY COP FORCES IN THE BASE COURSE OF PAVEMENT PRIOR TO THE PLACEMENT OF PAVEMENT FABRIC AND AC PAVEMENT OVERLAY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VEHICLE DETECTOR LOOPS WITH COP PERSONNEL.

UTILITY INFORMATION		
COMPANY	CONTACT	TELEPHONE
ARIZONA PUBLIC SERVICE CO. 120 N MARINA STREET PRESCOTT, ARIZONA 86301	MIKE SHAW	(928)443-6617
CENTURYLINK 1445 MASONRY WAY PRESCOTT, ARIZONA 86301	KAREN PRUTZMAN	(928)776-2513
UNISOURCE GAS CO. 6405 WILKINSON DRIVE PRESCOTT, ARIZONA 86301	DOMINIC GILLO	(928)771-7227
CABLE ONE 3801 TOWER RD. PRESCOTT, ARIZONA 86301	JOHNNY CEDILLO	(928)443-3348
CITY OF PRESCOTT WATER AND SEWER P.O. BOX 2059 PRESCOTT, ARIZONA 86301	SCOTT KETCHMARK (WATER) SCOTT GREGORIO (SEWER)	(928)777-1616 (928)777-1628
BLUE STAKE CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-STAKE-IT 1-800-782-5348 outside Maricopa County		
<p>NOTE: CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NECESSARY UTILITY RELOCATION WITH THE APPLICABLE UTILITY.</p>		



SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GATEWAY BLVD
3	GAIL GARDNER WAY
4	HASSAYAMPA VILLAGE LN (SHEET 1 OF 2)
5	HASSAYAMPA VILLAGE LN (SHEET 2 OF 2); HORIZON HILLS; COLLEGE HTS
6	GOLDEN HAWK DR; VARIOUS LOCATIONS
7	CONVENTIONAL ASPHALT CHIP SEAL VARIOUS LOCATIONS
8	STANDARD DETAILS; TYPICAL SECTIONS

LEGEND			
	EX. SEWER MANHOLE		MILL/OVERLAY
	EX. SEWER CLEANOUT		MICROSURFACE
	EX. STORM DRAIN MANHOLE		TYPE B CAPE SEAL COAT
	EX. TELEPHONE MANHOLE		CONVENTIONAL ASPHALT SEAL
	EX. WATER VALVE		PAVEMENT REPAIR
	EX. SURVEY MONUMENT		CONCRETE REPAIR
	EX. FIRE HYDRANT		TRUNCATED DOMES



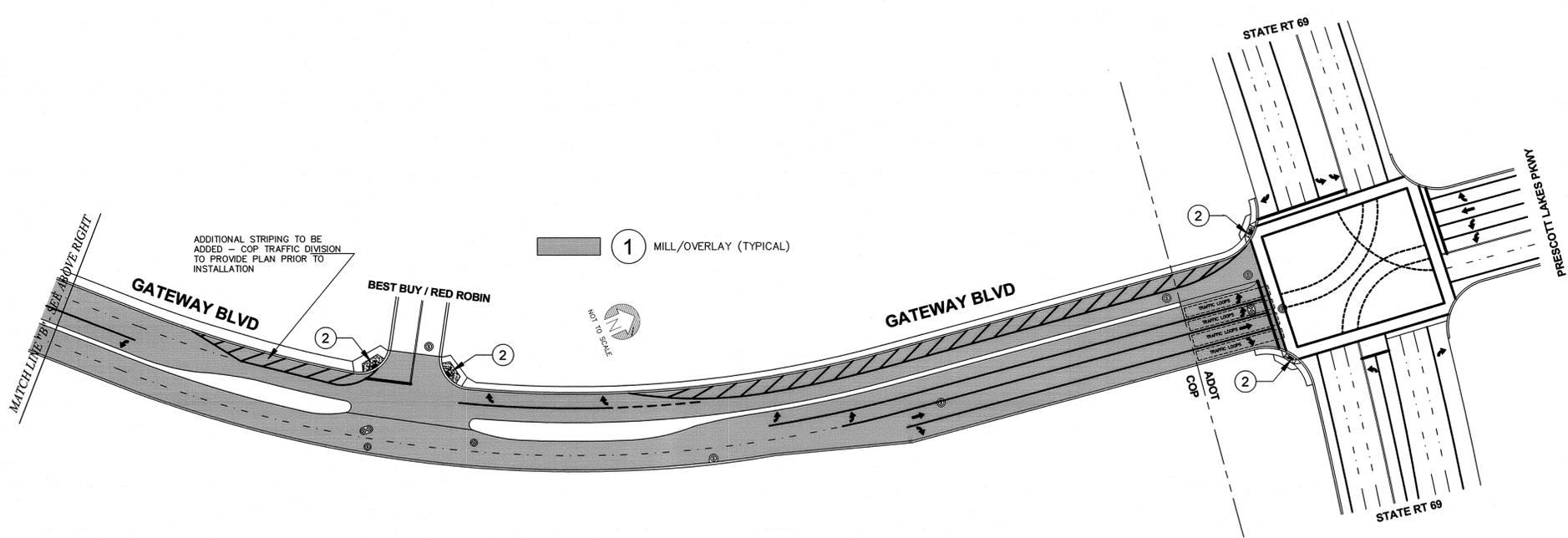
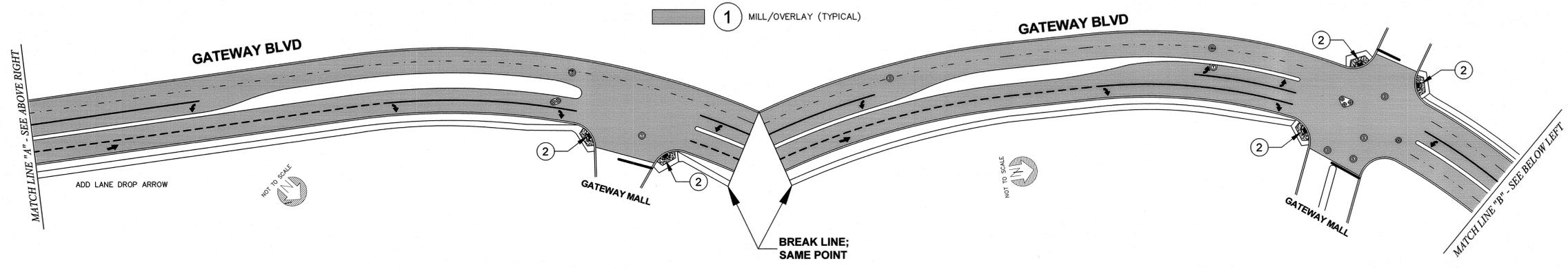
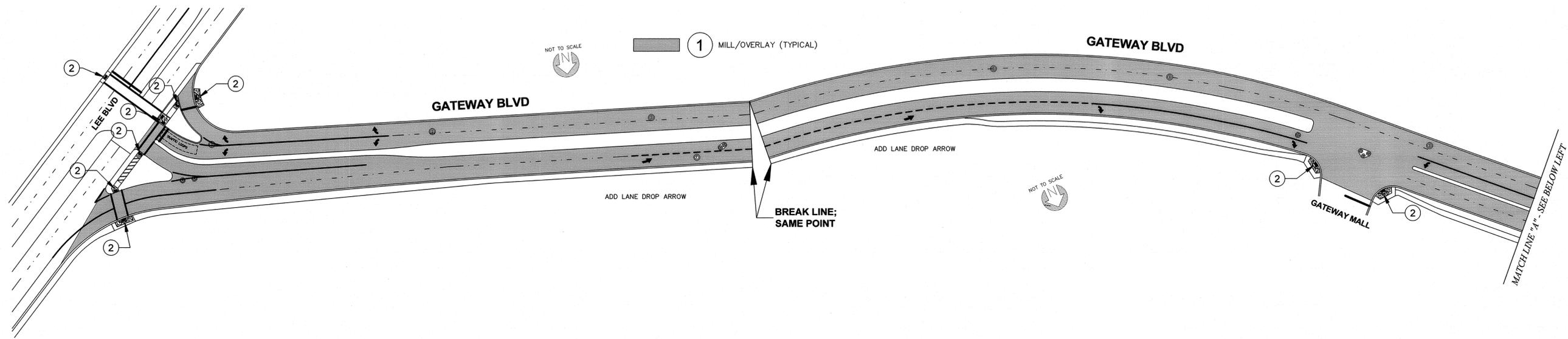
APPROVED BY

Charles L. Lube 6/10/15
CITY ENGINEER DATE

Alley 6/10/15
PROGRAM DEVELOPMENT MANAGER DATE

Julie Burman 6/10/15
UTILITIES MANAGER DATE

	CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130	DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 1 of 8 CIP NO. 15-019
	FY 2016 PAVEMENT REHABILITATION PROJECT TITLE SHEET	



CONSTRUCTION NOTES:

- 1 REMOVE BY MILLING EXISTING A. C. PAVEMENT 2" DEEP. WHERE EXISTING A. C. PAVEMENT IS HIGHER THAN THE EXISTING EDGE OF GUTTER, MILL A. C. PAVEMENT TO 2" BELOW EDGE OF GUTTER AND TAPER TO 2" DEEP OVER WIDTH OF ADJACENT LANE. PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. THOROUGHLY CLEAN MILLED PAVEMENT AND INSTALL PAVEMENT FABRIC IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- 2 SAWCUT AND REMOVE EXISTING HANDICAP RAMP TO THE DEPTH NECESSARY TO CONSTRUCT HANDICAP RAMP UPGRADE. RESTORE WITH 4" THICK PCC OVER 4" THICK AGGREGATE BASE COURSE OVER SCARIFIED AND COMPACTED SUBGRADE MATERIAL. TO INCLUDE TRUNCATED DOMES. NEW CONCRETE SHALL NEATLY JOIN EXISTING CONCRETE. CONSTRUCT PER COP STD DETAIL 231P MODIFIED TO FIT EXISTING CONDITIONS.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-05P, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

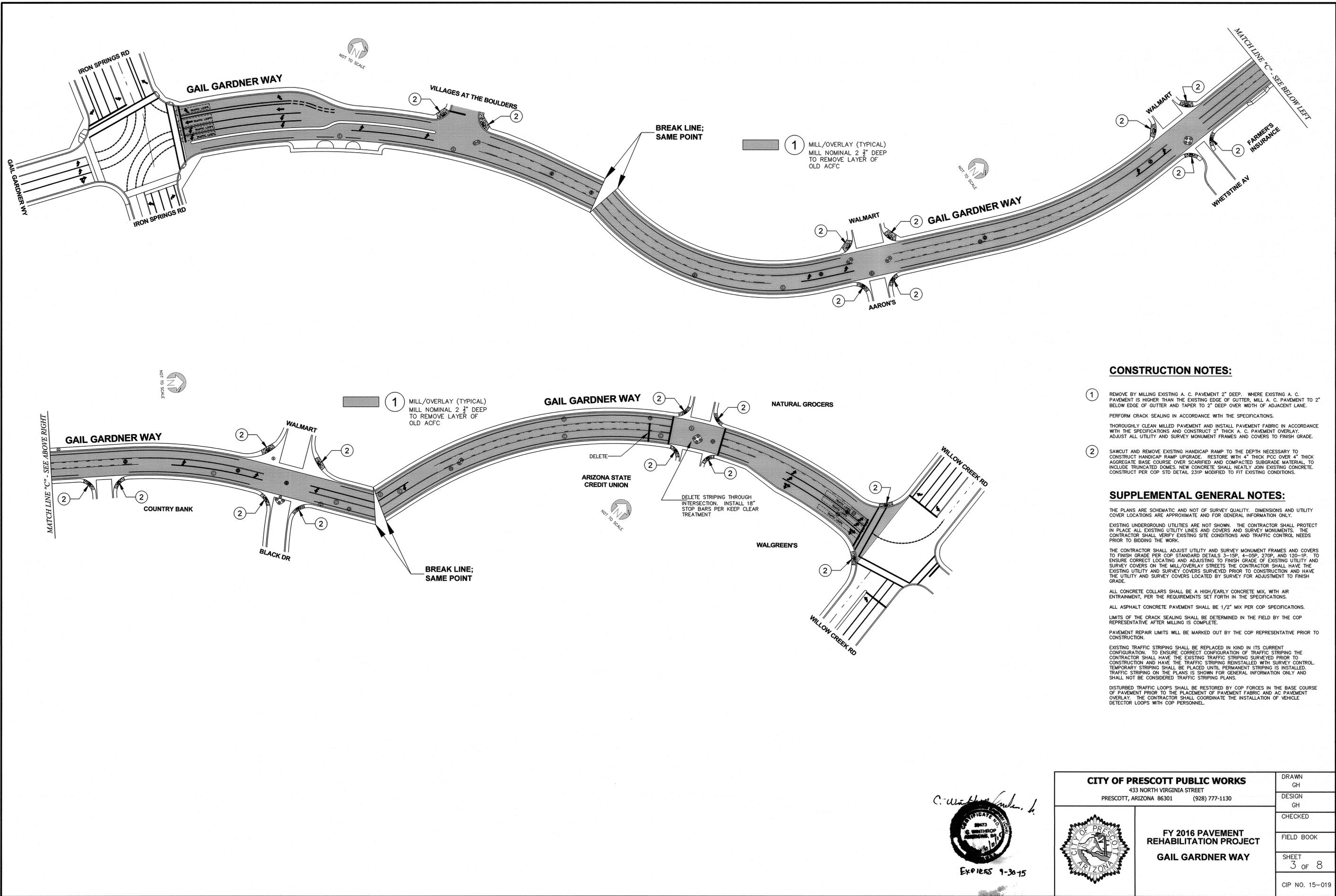
PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

DISTURBED TRAFFIC LOOPS SHALL BE RESTORED BY COP FORCES IN THE BASE COURSE OF PAVEMENT PRIOR TO THE PLACEMENT OF PAVEMENT FABRIC AND AC PAVEMENT OVERLAY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VEHICLE DETECTOR LOOPS WITH COP PERSONNEL.



CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 2 OF 8 CIP NO. 15-019
		FY 2016 PAVEMENT REHABILITATION PROJECT GATEWAY BLVD



CONSTRUCTION NOTES:

- 1 REMOVE BY MILLING EXISTING A. C. PAVEMENT 2" DEEP. WHERE EXISTING A. C. PAVEMENT IS HIGHER THAN THE EXISTING EDGE OF GUTTER, MILL A. C. PAVEMENT TO 2" BELOW EDGE OF GUTTER AND TAPER TO 2" DEEP OVER WIDTH OF ADJACENT LANE. PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. THOROUGHLY CLEAN MILLED PAVEMENT AND INSTALL PAVEMENT FABRIC IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- 2 SAWCUT AND REMOVE EXISTING HANDICAP RAMP TO THE DEPTH NECESSARY TO CONSTRUCT HANDICAP RAMP UPGRADE. RESTORE WITH 4" THICK PCC OVER 4" THICK AGGREGATE BASE COURSE OVER SCARIFIED AND COMPACTED SUBGRADE MATERIAL. TO INCLUDE TRUNCATED DOWNS. NEW CONCRETE SHALL NEATLY JOIN EXISTING CONCRETE. CONSTRUCT PER COP STD DETAIL 231P MODIFIED TO FIT EXISTING CONDITIONS.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-OSP, 27OP, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

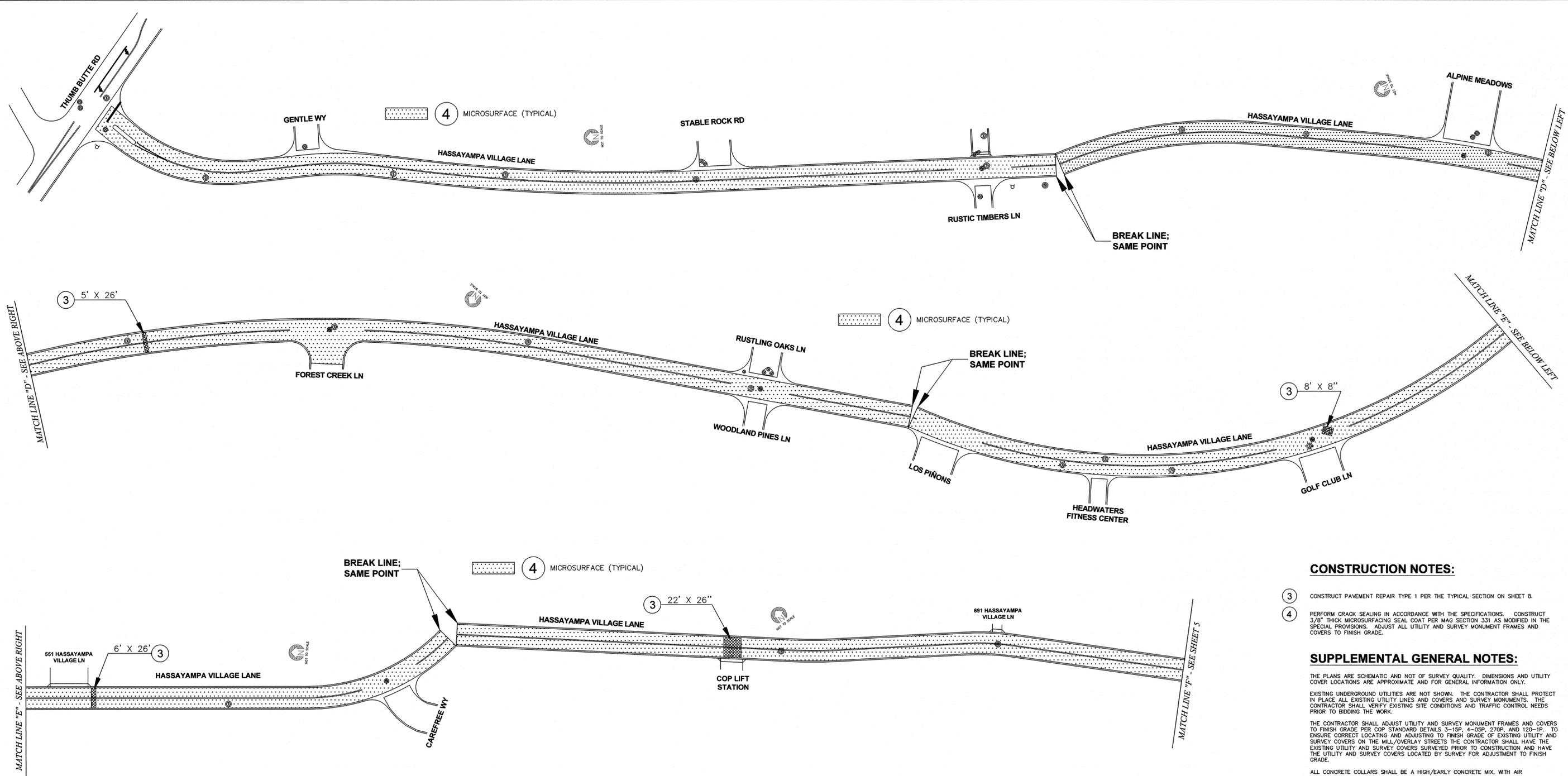
PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

DISTURBED TRAFFIC LOOPS SHALL BE RESTORED BY COP FORCES IN THE BASE COURSE OF PAVEMENT PRIOR TO THE PLACEMENT OF PAVEMENT FABRIC AND AC PAVEMENT OVERLAY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VEHICLE DETECTOR LOOPS WITH COP PERSONNEL.

C. [Signature]
 EXP. 9-30-15

CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 3 OF 8 CIP NO. 15-019
		FY 2016 PAVEMENT REHABILITATION PROJECT GAIL GARDNER WAY



CONSTRUCTION NOTES:

- 3 CONSTRUCT PAVEMENT REPAIR TYPE 1 PER THE TYPICAL SECTION ON SHEET 8.
- 4 PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT 3/8" THICK MICROSURFACING SEAL COAT PER MAG SECTION 331 AS MODIFIED IN THE SPECIAL PROVISIONS. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-1SP, 4-0SP, 27OP, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

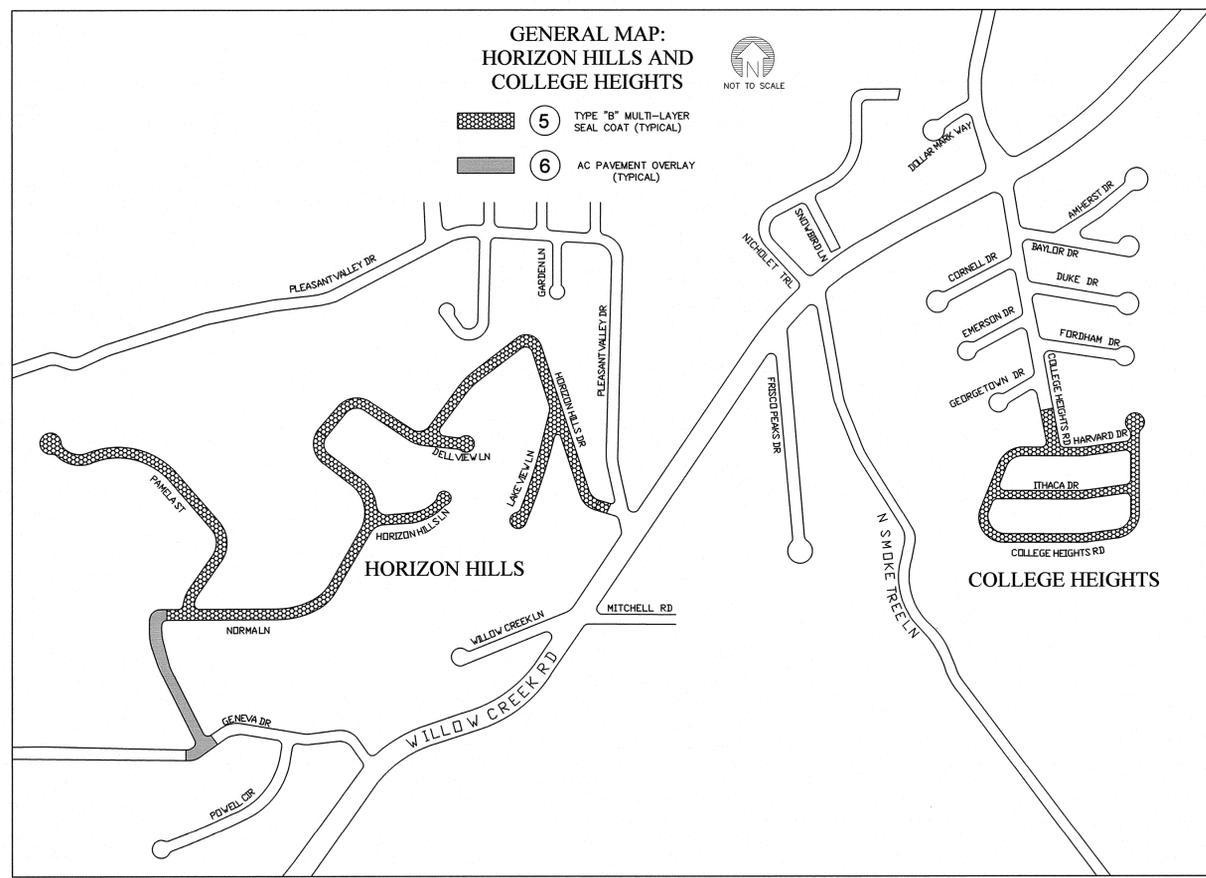
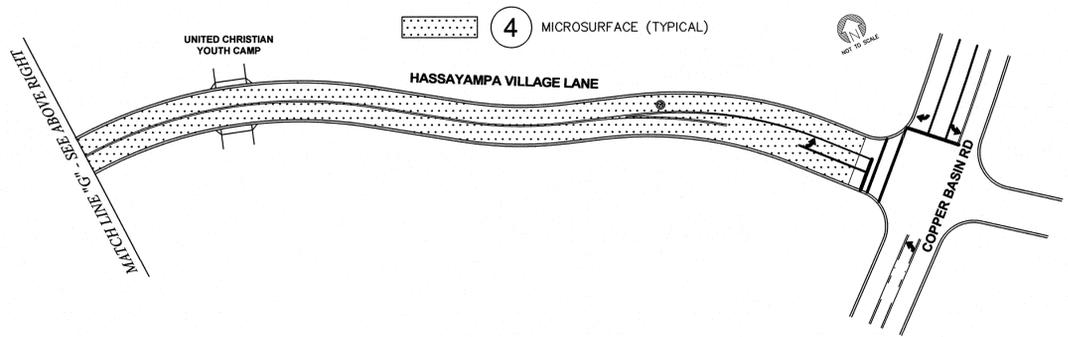
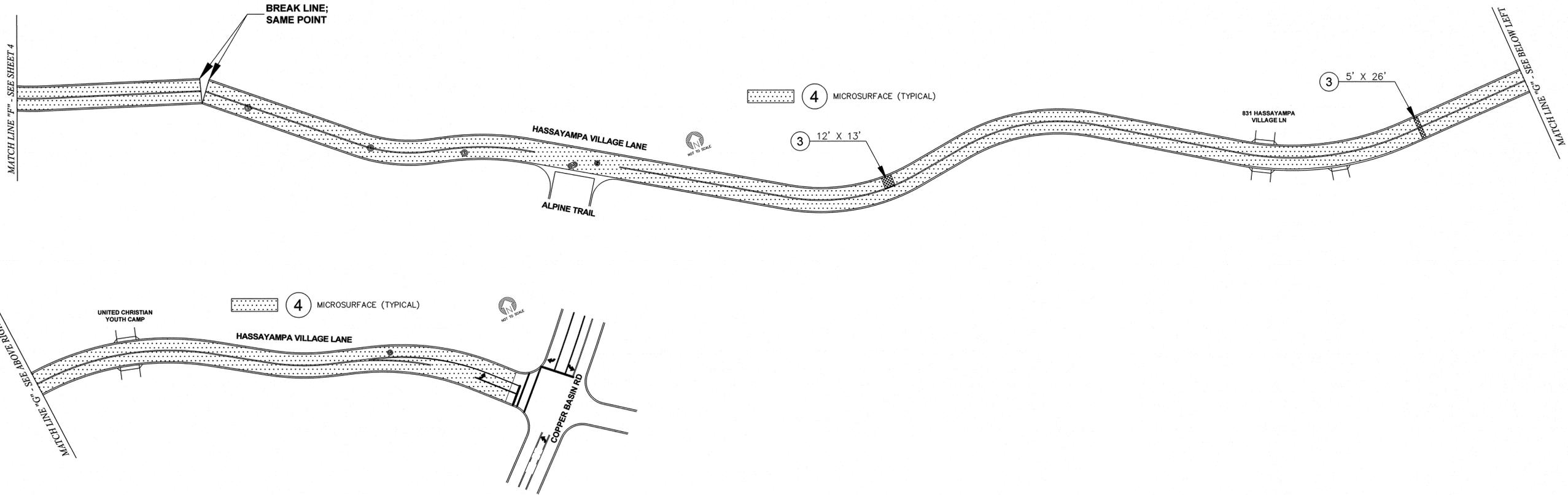
LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.



CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 4 OF 8 CIP NO. 15-019
FY 2016 PAVEMENT REHABILITATION PROJECT HASSAYAMPA VILLAGE LANE (SHEET 1 OF 2)		



CONSTRUCTION NOTES:

- 3 CONSTRUCT PAVEMENT REPAIR TYPE 1 PER THE TYPICAL SECTION ON SHEET 8.
- 4 PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT 3/8" THICK MICROSURFACING SEAL COAT PER MAG SECTION 331 AS MODIFIED IN THE SPECIAL PROVISIONS. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- 5 PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT TYPE "B" MULTI-LAYER SEAL COAT. TYPE "B" MULTI-LAYER SEAL COAT SHALL CONSIST OF 3/8" AGGREGATE RUBBERIZED CHIP SEAL AS THE FIRST COURSE, FOLLOWED BY TYPE II SLURRY SEAL FINISH COURSE. CHIP SEAL COAT SHALL BE THOROUGHLY SWEEPED OF LOOSE CHIPS PRIOR TO PLACEMENT OF TYPE II SLURRY SEAL COAT. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- 6 THOROUGHLY CLEAN EXISTING PAVEMENT. APPLY TACK COAT AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. CONSTRUCT TYPE II SLURRY SEAL PER MAG SECTION 332 AS MODIFIED IN THE SPECIAL PROVISIONS. SLURRY SEAL COAT SHALL BE CONSTRUCTED CONCURRENT WITH SLURRY SEAL COAT ON ADJACENT STREETS.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-05P, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

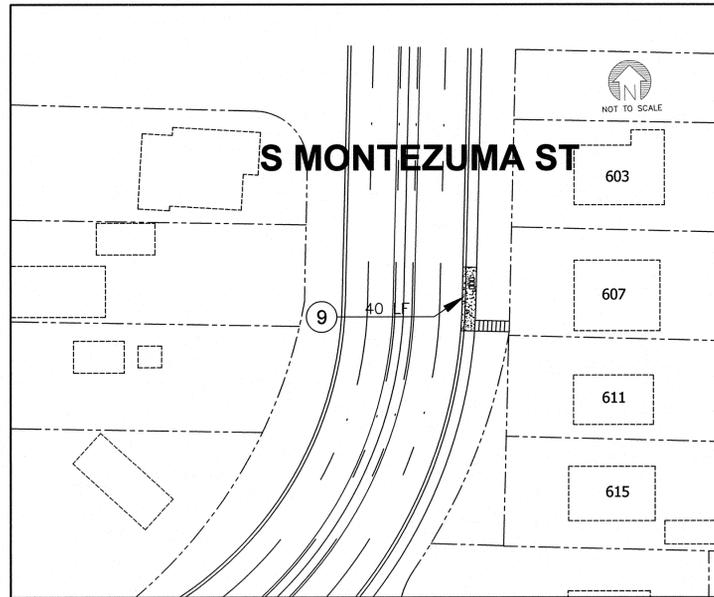
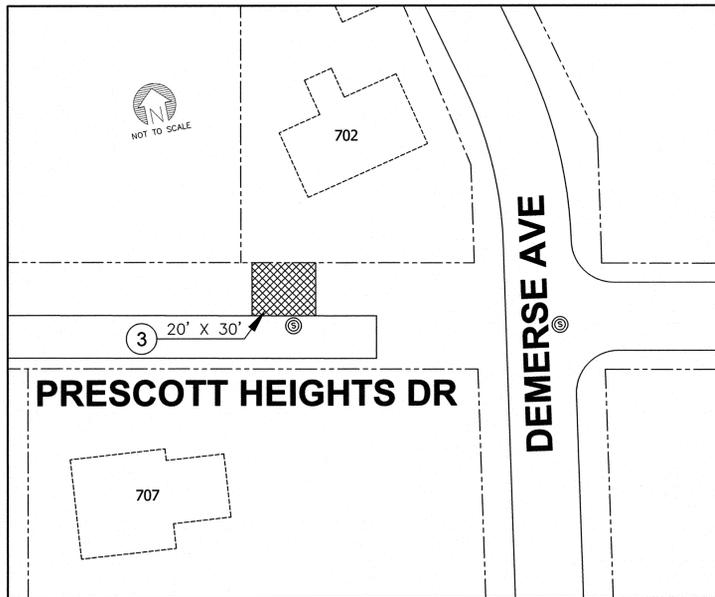
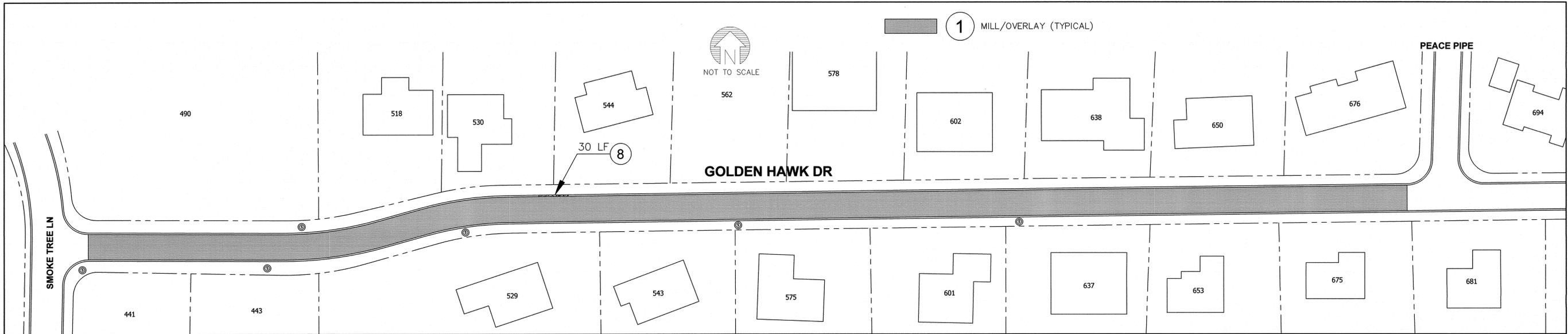
LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

C. Winthrop Andrews, Sr.
 39473
 C. WINTHROP ANDREWS, SR.
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 11115
 EXPIRES 9-30-15

CITY OF PRESCOTT PUBLIC WORKS		DRAWN GH
433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DESIGN GH
	FY 2016 PAVEMENT REHABILITATION PROJECT	CHECKED
	HASSAYAMPA VILLAGE LANE (SHEET 2 OF 2)	FIELD BOOK
HORIZON HILLS/COLLEGE HTS	SHEET 5 OF 8	
		CIP NO. 15-019



CONSTRUCTION NOTES:

- ① REMOVE BY MILLING EXISTING A. C. PAVEMENT 2" DEEP. WHERE EXISTING A. C. PAVEMENT IS HIGHER THAN THE EXISTING EDGE OF GUTTER, MILL A. C. PAVEMENT TO 2" BELOW EDGE OF GUTTER AND TAPER TO 2" DEEP OVER WIDTH OF ADJACENT LANE. PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. THOROUGHLY CLEAN MILLED PAVEMENT AND INSTALL PAVEMENT FABRIC IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- ③ CONSTRUCT PAVEMENT REPAIR TYPE 1 PER THE TYPICAL SECTION ON SHEET 8.
- ⑧ SAWCUT AND REMOVE EXISTING ROLL CURB AND RECONSTRUCT PER COP STANDARD DETAIL 220P OVER 4" THICK ABC.
- ⑨ SAWCUT AND REMOVE EXISTING VERTICAL CURB, GUTTER, AND SIDEWALK. RECONSTRUCT PER APPLICABLE COP STANDARD DETAILS. PROTECT IN PLACE AND ADJUST TO GRADE EXISTING WATER METER BOXES. REMOVE ABANDONED UTILITY POLE TO BOTTOM OF EXCAVATION.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-OSP, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

C. W. Andrews, Jr., P.E.

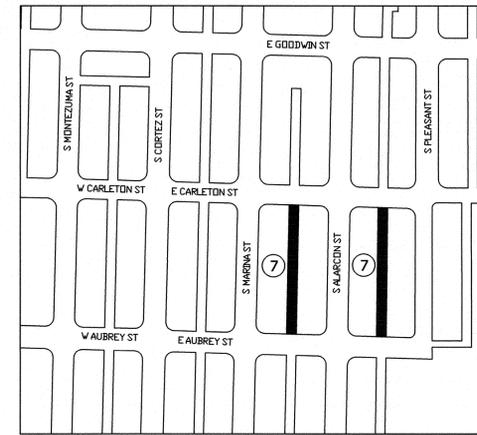
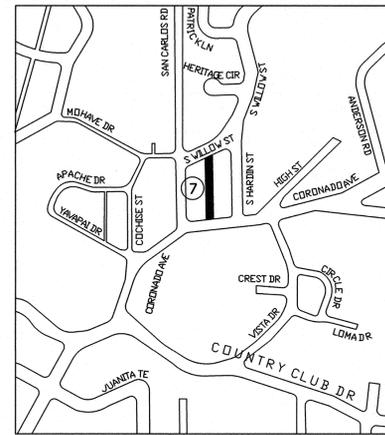
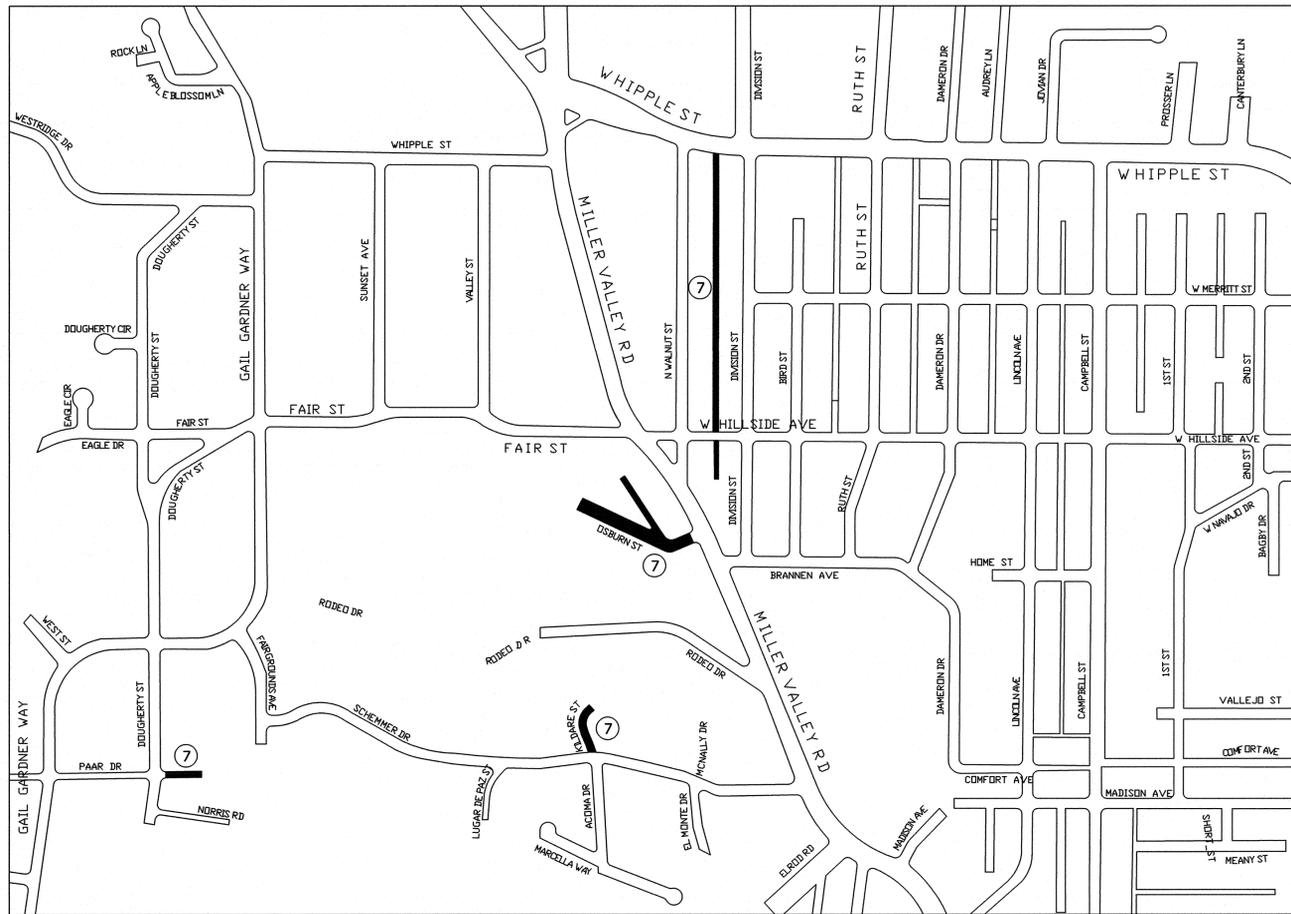
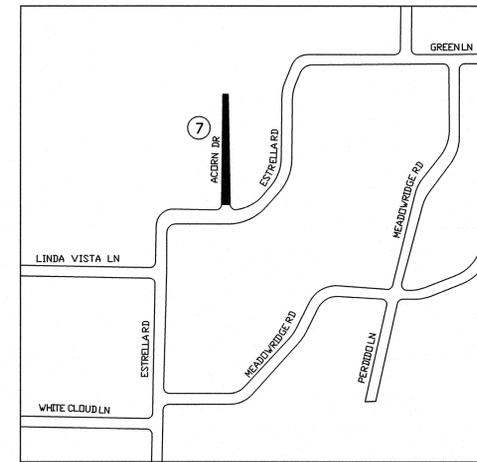
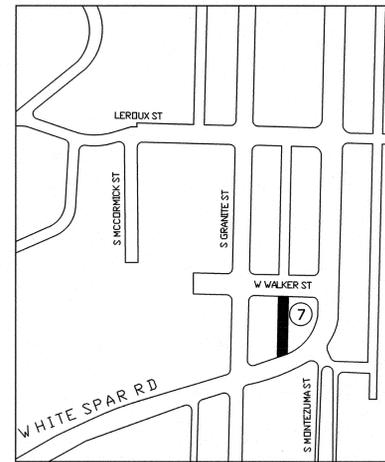
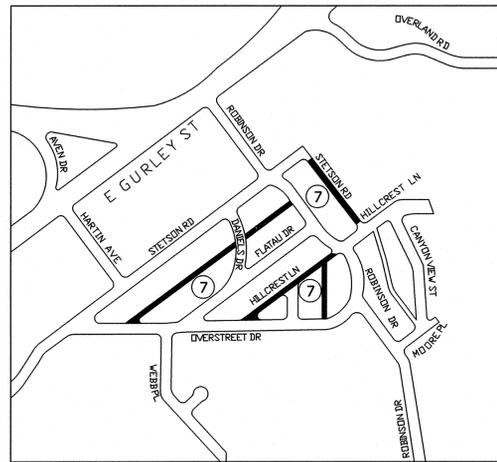
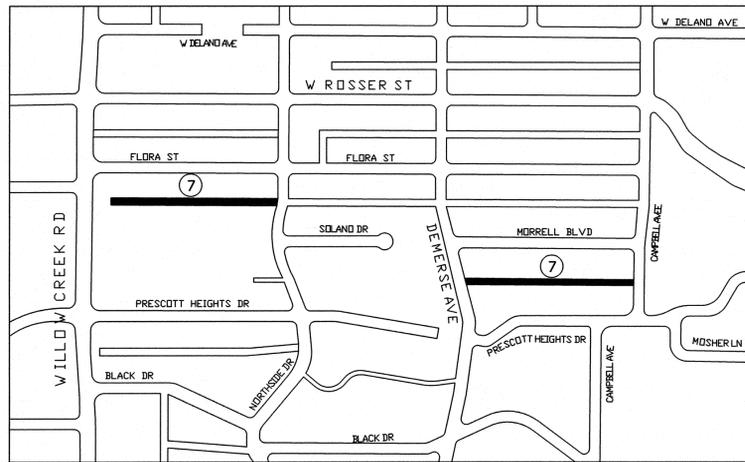
 EXPIRES 9-30-15

CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 6 OF 8 CIP NO. 15-019
	FY 2016 PAVEMENT REHABILITATION PROJECT GOLDEN HAWK DR VARIOUS LOCATIONS	



CONVENTIONAL ASPHALT CHIP SEAL COAT
GENERAL MAPS:
VARIOUS LOCATIONS

7 CONVENTIONAL ASPHALT
CHIP SEAL COAT



CONSTRUCTION NOTES:

- 7 THOROUGHLY CLEAN EXISTING PAVEMENT AND CONSTRUCT CONVENTIONAL ASPHALT CHIP SEAL, 3/8" LOW VOLUME AGGREGATE PER THE SPECIFICATIONS. ADJUST ALL EXISTING UTILITY FRAMES AND COVERS TO FINISH GRADE. ALL CHIP SEALED SURFACES SHALL BE FOG SEALED.

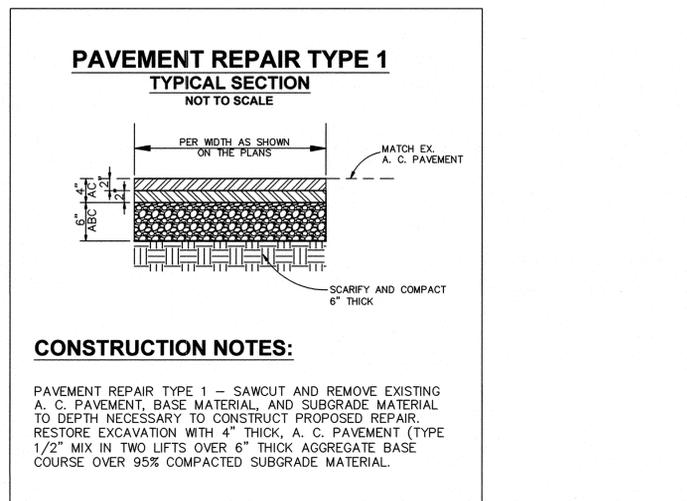
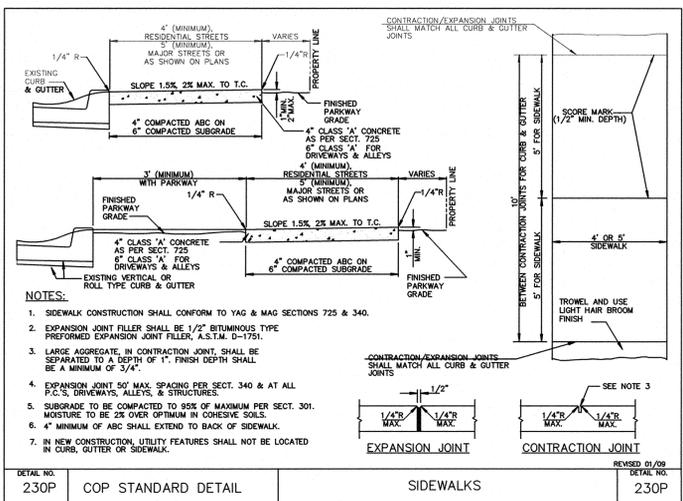
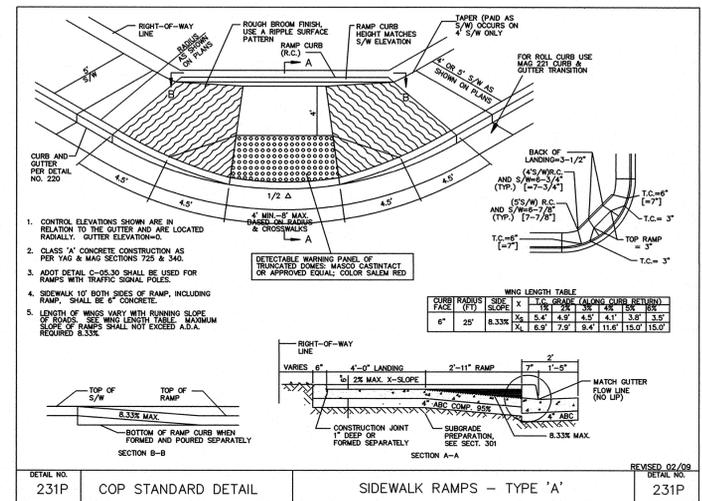
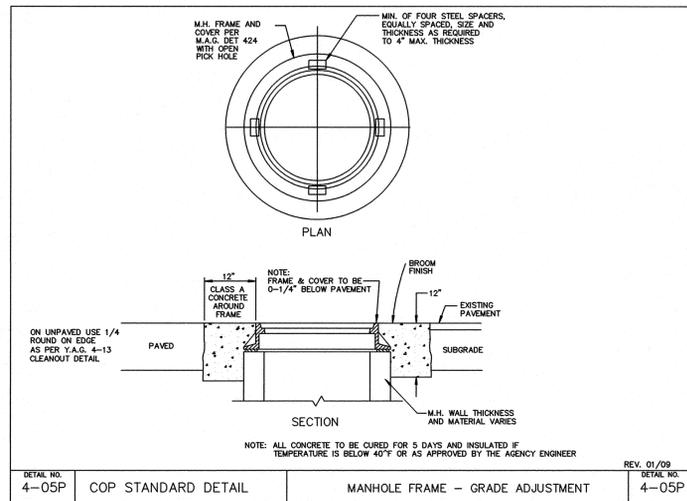
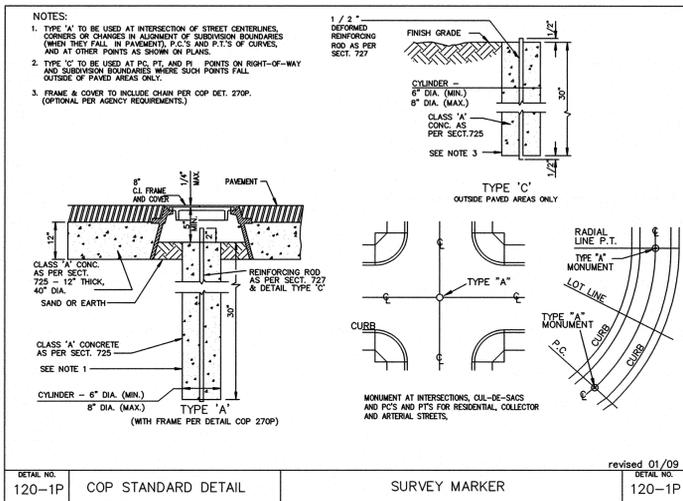
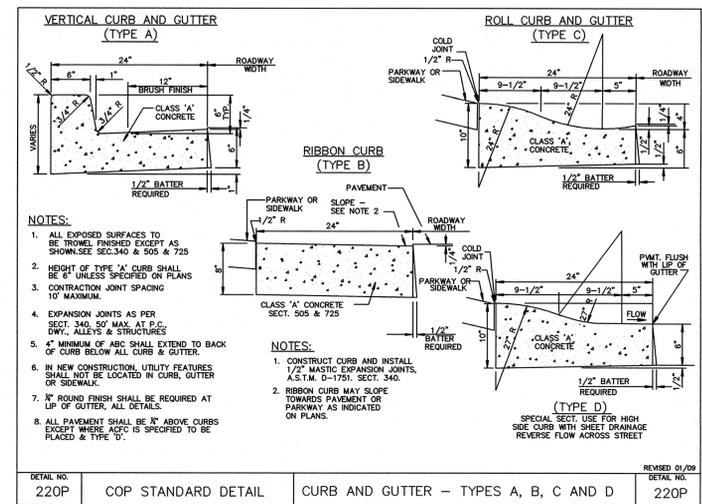
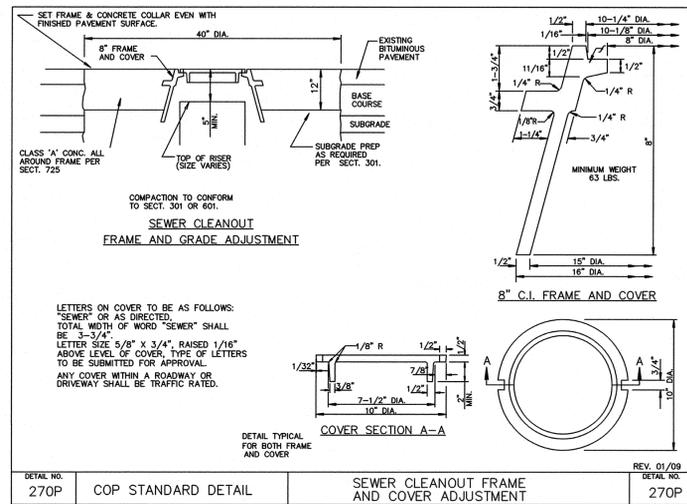
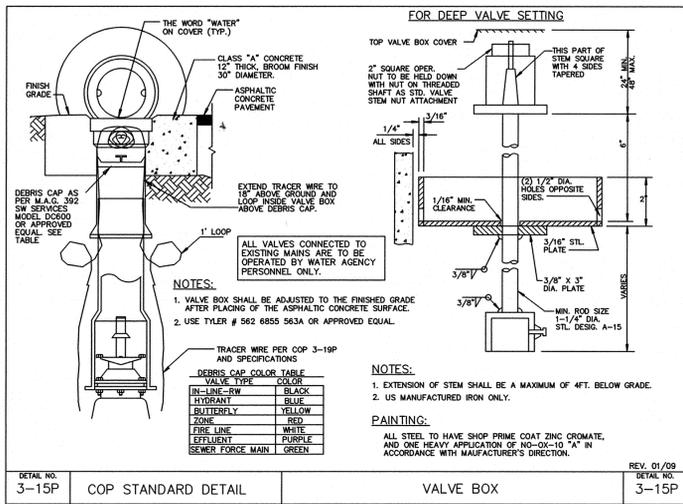
SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.
THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-05P, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.
ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.



CITY OF PRESCOTT PUBLIC WORKS 433 NORTH VIRGINIA STREET PRESCOTT, ARIZONA 86301 (928) 777-1130		DRAWN GH DESIGN GH CHECKED FIELD BOOK SHEET 7 OF 8 CIP NO. 15-019
FY 2016 PAVEMENT REHABILITATION PROJECT CONVENTIONAL ASPHALT CHIP SEAL - VARIOUS LOCATIONS		





CONSTRUCTION NOTES:

- REMOVE BY MILLING EXISTING A. C. PAVEMENT 2" DEEP. WHERE EXISTING A. C. PAVEMENT IS HIGHER THAN THE EXISTING EDGE OF GUTTER, MILL A. C. PAVEMENT TO 2" BELOW EDGE OF GUTTER AND TAPER TO 2" DEEP OVER WIDTH OF ADJACENT LAINE. PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. THOROUGHLY CLEAN MILLED PAVEMENT AND INSTALL PAVEMENT FABRIC IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- SAWCUT AND REMOVE EXISTING HANDICAP RAMP TO THE DEPTH NECESSARY TO CONSTRUCT HANDICAP RAMP UPGRADE. RESTORE WITH 4" THICK PCC OVER 4" THICK AGGREGATE BASE COURSE OVER SCARIFIED AND COMPACTED SUBGRADE MATERIAL. TO INCLUDE TRUNCATED DOMES. NEW CONCRETE SHALL NEATLY JOIN EXISTING CONCRETE. CONSTRUCT PER COP STD DETAIL 231P MODIFIED TO FIT EXISTING CONDITIONS.
- CONSTRUCT PAVEMENT REPAIR TYPE 1 PER THE TYPICAL SECTION ON SHEET 8.
- PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT 3/8" THICK MICROSURFACING SEAL COAT PER MAG SECTION 331 AS MODIFIED IN THE SPECIAL PROVISIONS. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- PERFORM CRACK SEALING IN ACCORDANCE WITH THE SPECIFICATIONS. CONSTRUCT TYPE "B" MULTI-LAYER SEAL COAT. TYPE "B" MULTI-LAYER SEAL COAT SHALL CONSIST OF 3/8" AGGREGATE RUBBERIZED CHIP SEAL AS THE FIRST COURSE, FOLLOWED BY TYPE II SLURRY SEAL FINISH COURSE. CHIP SEAL COAT SHALL BE THOROUGHLY SWEEP OF LOOSE CHIPS PRIOR TO PLACEMENT OF TYPE II SLURRY SEAL COAT. ADJUST ALL UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE.
- THOROUGHLY CLEAN EXISTING PAVEMENT. APPLY TACK COAT AND CONSTRUCT 2" THICK A. C. PAVEMENT OVERLAY. CONSTRUCT TYPE II SLURRY SEAL PER MAG SECTION 332 AS MODIFIED IN THE SPECIAL PROVISIONS. SLURRY SEAL COAT SHALL BE CONSTRUCTED CONCURRENT WITH SLURRY SEAL COAT ON ADJACENT STREETS.
- THOROUGHLY CLEAN EXISTING PAVEMENT AND CONSTRUCT CONVENTIONAL ASPHALT CHIP SEAL, 3/8" LOW VOLUME AGGREGATE PER THE SPECIFICATIONS. ADJUST ALL EXISTING UTILITY FRAMES AND COVERS TO FINISH GRADE. ALL CHIP SEALED SURFACES SHALL BE FOG SEALED.
- SAWCUT AND REMOVE EXISTING ROLL CURB AND RECONSTRUCT PER COP STANDARD DETAIL 220P OVER 4" THICK ABC.
- SAWCUT AND REMOVE EXISTING VERTICAL CURB, GUTTER, AND SIDEWALK. RECONSTRUCT PER APPLICABLE COP STANDARD DETAILS. PROTECT IN PLACE AND ADJUST TO GRADE EXISTING WATER METER BOXES. REMOVE ABANDONED UTILITY POLE TO BOTTOM OF EXCAVATION.

SUPPLEMENTAL GENERAL NOTES:

THE PLANS ARE SCHEMATIC AND NOT OF SURVEY QUALITY. DIMENSIONS AND UTILITY COVER LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITY LINES AND COVERS AND SURVEY MONUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND TRAFFIC CONTROL NEEDS PRIOR TO BIDDING THE WORK.

THE CONTRACTOR SHALL ADJUST UTILITY AND SURVEY MONUMENT FRAMES AND COVERS TO FINISH GRADE PER COP STANDARD DETAILS 3-15P, 4-05P, 270P, AND 120-1P. TO ENSURE CORRECT LOCATING AND ADJUSTING TO FINISH GRADE OF EXISTING UTILITY AND SURVEY COVERS ON THE MILL/OVERLAY STREETS THE CONTRACTOR SHALL HAVE THE EXISTING UTILITY AND SURVEY COVERS SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE UTILITY AND SURVEY COVERS LOCATED BY SURVEY FOR ADJUSTMENT TO FINISH GRADE.

ALL CONCRETE COLLARS SHALL BE A HIGH/EARLY CONCRETE MIX, WITH AIR ENTRAINMENT, PER THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS.

ALL ASPHALT CONCRETE PAVEMENT SHALL BE 1/2" MIX PER COP SPECIFICATIONS.

LIMITS OF THE CRACK SEALING SHALL BE DETERMINED IN THE FIELD BY THE COP REPRESENTATIVE AFTER MILLING IS COMPLETE.

PAVEMENT REPAIR LIMITS WILL BE MARKED OUT BY THE COP REPRESENTATIVE PRIOR TO CONSTRUCTION.

EXISTING TRAFFIC STRIPING SHALL BE REPLACED IN KIND IN ITS CURRENT CONFIGURATION. TO ENSURE CORRECT CONFIGURATION OF TRAFFIC STRIPING THE CONTRACTOR SHALL HAVE THE EXISTING TRAFFIC STRIPING SURVEYED PRIOR TO CONSTRUCTION AND HAVE THE TRAFFIC STRIPING REINSTALLED WITH SURVEY CONTROL. TEMPORARY STRIPING SHALL BE PLACED UNTIL PERMANENT STRIPING IS INSTALLED. TRAFFIC STRIPING ON THE PLANS IS SHOWN FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSIDERED TRAFFIC STRIPING PLANS.

DISTURBED TRAFFIC LOOPS SHALL BE RESTORED BY COP FORCES IN THE BASE COURSE OF PAVEMENT PRIOR TO THE PLACEMENT OF PAVEMENT FABRIC AND AC PAVEMENT OVERLAY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF VEHICLE DETECTOR LOOPS WITH COP PERSONNEL.

CITY OF PRESCOTT PUBLIC WORKS
433 NORTH VIRGINIA STREET
PRESCOTT, ARIZONA 86301 (928) 777-1130

FY 2016 PAVEMENT REHABILITATION PROJECT
STANDARD DETAILS
TYPICAL SECTIONS

DRAWN GH
DESIGN GH
CHECKED
FIELD BOOK
SHEET 8 OF 8

CERTIFICATE OF AUTHORITY
39473
C. WINTHROP ANDREWS, SR.
ARIZONA U.S.A.

C. Wintthrop Andrews, Sr.
EXPIRES 9-30-15