EXHIBIT A

FINAL PROJECT ASSESSMENT

ALLEY STABLIZATION -CLARK PARK & MITCHELL PARK NEIGHBORHOOD

FEDERAL AID No. TMP-0(259) D
ADOT TRACS No. T0507(SUBPHASES 01D/01C)
MAG TIP No. TMP19-201D; TMP21-202C
March 20, 2024
Revised October 2024



City of Tempe

Public Works Department Division of Engineering TRACY ELIZABETH EBERLEIN OF STORING OF STORI

Prepared by:

AZTEC Engineering 501 N 44th Suite 300, Phoenix, AZ 85008 Phoenix, AZ 85008

TABLE OF CONTENTS

	DESCRIPTION	Page No.
I.	Overview and Project Background	1
II.	Project Scope of Work	1
II.	Project Development Considerations	2
IV.	Environmental Considerations	2
V.	Typical Alley Dust Proofing Section	4
VI.	Typical Alley Cross Section	5
VII.	Drainage	5
VIII.	Right-of-Way Requirements	5
IX.	Utilities	5
Χ.	Construction Impacts	5
XI.	Other Requirements	6
XII.	References	6
APPE	NDICES	
Appen	ndix A - Typical Alley Cross Section	A
Appendix B - Figure of Alley Routes		
Appendix C – Estimated Alley Dust Proofing Quantities		

I. Overview and Project Background

In 1998, the Arizona Legislature adopted ARS Title 9, Section 500.04 that included new requirements for cities and towns to develop and implement plans to stabilize or reduce dust on "targeted" unpaved roads, shoulders on targeted arterial roads, and alleys within each jurisdiction beginning January 1, 2008.

Maricopa County experiences numerous occurrences of exceeding the federal health standards for inhalable particulates with diameters smaller than ten microns (PM_{10}). Unpaved roadway and alley segments may contribute to unhealthy levels of PM_{10} particulate matter when vehicles utilize them for travel. Reducing emissions from these sources can improve public health. The dust control program is included as a City of Tempe commitment in the Maricopa County Plan.

Maricopa County adopted Rule 310.01, which was approved by the Maricopa County Board of Supervisors for the entire County under the serious area State Implementation Plan (SIP) revisions. These rules include dust control standards for unpaved roads and alleys, and other dust sources that are not regulated under air permits. Stabilization of these dust sources may include paving, dust suppressants, or gravel to meet the standards defined in Rule 310.01. Each jurisdiction is responsible for determining which stabilization method to use to meet the County rules. Noncompliance with the established and agreed to goals will risk withholding of federal highway funds for the State of Arizona, and the stopping of any capacity enhancing construction projects, regardless of the funding source.

The City of Tempe is committed to dust proof 1.69 miles of unpaved alleys located within the Clark Park Neighborhood limits and 1.90 miles of Mitchell Park West Project Area and included this commitment in the City's Dust Control Plan required under State law.

II. Project Scope of Work

The City of Tempe is evaluating this project as a candidate for the CMAQ PM-10 funding. The purpose of this project is to dustproof 1.69 miles of unpaved alleys located within the Clark Park Neighborhood limits and 1.90 miles of unpaved alleys located within Mitchell Park West Project Area. This project will remove two (2)" of existing alley surface and replace it with double rolled Recycled Asphalt Pavement (RAP) on the existing alley alignment. The RAP shall be compacted to existing grade and sealed with acrylic copolymer on top. A typical cross section consists of a 16 to 20-foot-wide travel lane leaving buffer of one foot to two feet on each side to avoid any utility conflicts. In cases where typical cross section is not fenced or linear, the alleys will continue to be paved longitudinally, leaving the required one to two feet buffer from typical edge of the alley. The finished grade for paved alleys shall be built flush with the existing level of manholes, tops of valves and boxes The alleys are constructed on flat or level terrain and are predominantly composed of sandy soil with variable amounts of gravel and fines (silt and clays). Cross slopes may vary within existing alleys. The alley segments to be dust proofed are provided in Appendix B and are estimated to have a current minimum Average Daily Traffic of less than 25 vehicles per day.

Dust-proofing the existing alleys will not have any impact on the existing land uses. There are no anticipated new right-of-way or easements to be acquired for this project. The existing drainage flow

patterns will be maintained therefore there are no anticipated improvements for drainage design. There is no utility relocation anticipated with this project. The clearances for these items shall be required through ADOT. Design of these segments is estimated to be completed by July 2024 and construction would commence in December 2024.

Pavement striping/markings, signage, lighting, sidewalk improvements and ADA improvements are not anticipated to be part of this project.

The City of Tempe will perform utility coordination as needed. The City of Tempe will provide the following clearances through ADOT for this project:

- R/W
- Utilities
- Environmental

II. Project Development Considerations

No public meetings are anticipated. The contractor shall be responsible for notifying all residents, businesses, and schools by flyers, 48 hours in advance of any street restriction or construction that may affect access to their property. The flyers shall describe the work and the schedule for the work and notify citizens to remove vehicles from the alleys and alley entrances during the day of construction.

All of the alley segments included in this project are located within incorporated portions of the City of Tempe. Coordination with the Arizona Department of Transportation (ADOT) is required for the review and approval of the Project Assessment and the Environmental documentation. The City of Tempe has Pre-Certification Acceptance approval from ADOT to develop the project, advertise the project for bid and conduct the construction administration for the project.

IV. Environmental Considerations

This federal aid project requires compliance with the National Environmental Policy Act (NEPA). A Categorical Exclusion was issued on 03/14/2024. The technical studies and approvals showed the impacts of this undertaking to be beneath the threshold of significant.

<u>Social or Economic Impacts:</u> The project area is located within urban and suburban portions of the City of Tempe. Urban areas are characterized primarily as residential areas, and to a lesser degree, commercial, industrial, and/or agricultural areas. Access to businesses and residences will be maintained during construction.

The dust proofing of the alleys will have a positive effect on the neighborhood community. No disproportionate impacts to minority, low-income, elderly, or female head of households are anticipated. Local traffic will be maintained during construction. At times, partial lane restrictions may be necessary to dust proof alleys, but they will be short in duration, and the affected residents will be notified prior to the start of the work. There will be no permanent changes in traffic service or access as a result of the project.

Biological Impacts: The project limits are located along an existing alley surrounded by urban development. This area has low potential to provide habitat for any protected species. A study of potential impacts to biological resources will be conducted in conjunction with the environmental clearance process. A Biological Evaluation Short Form (BESF) and Migratory Bird Treaty Act surveys were completed. The BESF was approved by ADOT on 02/13/2024 and the following mitigation measures will be implemented:

City of Tempe Responsibility

• If any active bird nests cannot be avoided by construction activities, the Engineer will contact the City of Tempe Project Manager (480.350.8875) to evaluate the situation.

Contractor Responsibility

• If vegetation trimming or clearing will occur during the migratory bird breeding season (March 1 - August 31), the contractor shall avoid any active bird nests. If the active nests cannot be avoided, the contractor shall notify the Engineer to evaluate the situation. During the non-breeding season (September 1 – February 28) vegetation trimming and clearing are not subject to this restriction.

Potential Hazardous Waste Sites: A Preliminary Initial Site Assessment (PISA) for the project was completed and approved by ADOT on 02/21/2024. The PISA was limited to a drive through inspection of the project limits by a hazardous materials specialist to look for suspicious substances and a review of publicly available databases. No hazardous material testing was completed. Drywells, hazardous material incidents or leaking underground storage tanks are not anticipated to be found within the project area. If suspected hazardous materials are encountered, work will cease at that location, and arrangements made for proper treatment or disposal of those materials.

Archaeological/Historical Sites: A preliminary records search of the ADOT Historic Preservation Team and Arizona State Museum databases indicates that portions of the Mitchel Park West and Clark Park Neighborhood area of potential effects (APE) were previously surveyed for cultural resources. Previous cultural resource survey information could not be located for the remainder of the project APE. However, due to the disturbed nature of the in-use alleys, the potential for finding intact cultural resources is highly unlikely. Therefore, an additional cultural resource survey is not warranted. No cultural resources were identified. ADOT used their Section 106 Programmatic Agreement and ADOT Historic Preservation Team completed a memo to file for no potential to cause effects to historic properties.

<u>Section 404 Permit Requirements:</u> No drainages within the study area are expected to be jurisdictional Waters of the US. No Section 404 permitting is anticipated to be required.

<u>Invasive Species:</u> All the construction work is located within the existing alleys alignment; therefore, it is believed that this project will not result in the spread of invasive species. Mitigation measures for dealing with Invasive Species issues will be addressed in the Special Provisions Section of the project specification book.

Section 4(f) Lands: Section 4(f) of the Department of Transportation Act of 1966 (49 U.S.C. 303) restricts the use of any publicly owned park, recreation area, or wildlife and waterfowl refuge, or any significant historic site that is either on or is eligible for the NRHP. Preliminary research for the area

shows two parks (Clark Park and Mitchell Park) that would be considered Section 4(f) properties. There are no historic properties or wildlife/waterfowl refuges within a ¼ mile of project. Impacts to these Section 4(f) properties are not anticipated; however, further evaluation would be conducted as part of the ADOT/FHWA federal environmental clearance process to determine if any Section 4(f) properties would be impacted.

<u>Flood Plain:</u> The project will not substantially modify the topography in the project area, therefore, there will be no impact to the 100-year flood plain.

<u>Wetlands</u>: There are no wetlands or riparian areas within the project locations; therefore, there will be no impact to wetlands or riparian areas as a result of this project.

Air Quality Impacts: This project is located in the Phoenix non-attainment area for ozone (O3), and PM_{10} , and Phoenix maintenance area for carbon monoxide (CO). Dust proofing existing dirt alleys will reduce the generation of fugitive dust. This project will not interfere with transportation control measure implementation.

<u>Noise Impacts</u>: Traffic volumes, speeds, and truck percentages are not expected to increase as a result of this project. Traffic noise levels are expected to stay consistent with the current conditions, and no mitigation measures would be required. Construction-related noise will be handled in accordance with ADOT standard specifications and local rules or ordinances.

<u>AZPDES Permit:</u> This project is likely to involve more than one acre of ground disturbance. The area of disturbance will be calculated to verify if authorization under an AZPDES 402 general permit and a stormwater pollution prevention plan (SWPPP) will be required.

<u>Public and Agency Involvement:</u> The relevant parties with interests adjacent to the project limits will be contacted regarding the project. These include the adjacent residents, business, churches and local authorities within the project area. All parties will be afforded the opportunity to review the project scope and make comments. Agency notification letters were sent out on 11/17/2023 to Maricopa County representatives, City of Tempe fire and police, Maricopa Association of Governments, and local schools. No comments were received during the agency notification.

Overview: All areas that will potentially be disturbed during construction will be accounted for in the environmental technical study documents and clearance. The area of potential disturbance will include any staging areas, easements, or off-site locations used during construction. To ensure changes are accounted for that may occur during final design, coordination between the environmental planner and project designer will occur at every major submittal.

V. Typical Alley Dust Proofing Section

The typical alley dust proofing type will feature approximately two (2)" removal of alley surface and replaced with compacted double rolled recycled asphalt.

VI. Typical Alley Cross Section

The typical alley cross section consists of a 16 to 20-foot-wide travel lane. See Appendix A for the typical alley cross section.

VII. Drainage

Drainage impacts within the project segments are not anticipated. The existing and natural drainage patterns will be maintained for water to drain away from the road.

VIII. Right-of-Way Requirements

No new right-of-way or easement will need to be acquired for this project.

IX. Utilities

No utility relocation is anticipated for this project.

The following utility companies have facilities within the project limits:

- Arizona Public Services (APS): Electric
- AT&T: Coax, Fiber
- Arizona State University: Communication, Fiber Optics
- Campus Communication Group LLC; Fiber Optics
- City of Tempe: Sewer, Water, Irrigation, CATV, Fiber Coax, Electric
- Cox Communication: CATV, Fiber
- Crown Castle Solutions Corporation: Communication, Fiber
- CTLQL Century Link- Coaxial, Fiber
- MCI Verizon Business: Fiber
- Pauley Construction, LLC-Communication, Fiber
- Salt River Project Maricopa County- Communications, Electric, Fiber, Irrigation
- Southwest Gas- Gas, High Pressure Gas
- Verizon Wireless- Communications, Fiber
- Zayo-Communications, Fiber

There are power poles, electrical boxes, communication pedestals and irrigation wells located within the typical alley segment that needs to be paved. Most of these features are located adjacent to the fences and walls and will fall within the buffer zone provided with the typical cross section for paving alleys. All of these utility facilities shall be protected in place and an additional one (1') foot buffer will be provided if they are not located within the planned buffer zones adjacent to the fences. The underground utilities depths are unknown, and it is recommended that contractor shall identify the underground utility depths before construction and protect them in place.

X. Construction Impacts

There are no improved driveways within the existing right-of-way for the alley segments included in this project. Local traffic will be maintained during construction. Traffic control during construction will conform to the Manual on Uniform Traffic Control Devices for Streets and Highways and the City of Tempe Traffic Barricade Manual, latest editions. At times, full or partial lane restrictions may be necessary to allow ingress and egress of construction equipment onto the alleys, but it will be short in duration (less than 30 minutes), and the affected residents will be notified prior to the start of the work. There are no seasonal considerations for the construction of this project. However, the construction schedule shall be aligned with the City of Tempe Bulk Trash Pickup schedule.

XI. Other Requirements

The funding for the construction of the project will be a combination of federal CMAQ funds and City of Tempe funds. No federal funds will be used for design work on the project. The project is being developed for the City of Tempe by AZTEC Engineering. The City of Tempe has been approved by ADOT for Certification Acceptance to conduct the procurement and construction administration for the project.

The estimated bid advertisement date for the project is July 2024. The estimated construction start date will be December 2024 with the estimated duration for the completion of the project to be approximately two months.

XII. References

- 1. A Policy on Geometric Design of Highways and Streets, 2004 for the American Association of State Highway Transportation Officials (AASHTO)
- 2. City of Tempe Dust Control Plan for Unpaved Streets, Shoulders, and Alleys.

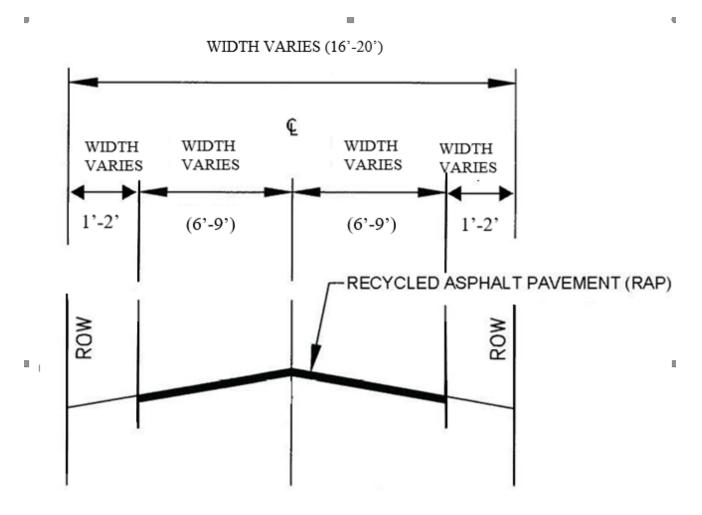
Appendices:

Appendix A - Typical Alley Cross Section

Appendix B - Figure of Alley Routes

Appendix C – Estimated Alley Dust Proofing Quantities

APPENDIX A - TYPICAL ALLEY CROSS



TYPICAL ALLEY SEGMENT N.T.S

PAVING WIDTH WILL BE TOTAL ALLEY (R.O.W) WIDTH MINUS ONE TO TWO FEET FOR UTILITY CLEARANCE.

Α

APPENDIX B - FIGURE OF ALLEY ROUTES





City of Tempe Clark Park Neighborhood Alley Project Area Alleys



Alley Segment ID





APPENDIX C – ESTIMATED ALLEY DUST PROOFING QUANTITIES

CLARK PARK ALLEY I.D.#	DUST PROOFING LENGTH (FT)	DUST PROOFING WIDTH (FT)	Thickness(ft)	Area (SF)	Area Acre	Area (SY)	Volume (CFT)
1	960	20	0.2	19200	0.4	2133.3	3840.0
2	220	20	0.2	4400	0.1	488.9	880.0
3	230	20	0.2	4600	0.1	511.1	920.0
4	850	20	0.2	17000	0.4	1888.9	3400.0
5	550	20	0.2	11000	0.3	1222.2	2200.0
6	570	20	0.2	11400	0.3	1266.7	2280.0
7	315	20	0.2	6300	0.1	700.0	1260.0
8	865	20	0.2	17300	0.4	1922.2	3460.0
9	310	20	0.2	6200	0.1	688.9	1240.0
10	545	20	0.2	10900	0.3	1211.1	2180.0
11	1095	16	0.2	17520	0.4	1946.7	3504.0
12	595	20	0.2	11900	0.3	1322.2	2380.0
13	595	20	0.2	11900	0.3	1322.2	2380.0
14	595	20	0.2	11900	0.3	1322.2	2380.0
15	625	20	0.2	12500	0.3	1388.9	2500.0
TOTALS	8920			174020	4.0	19336	34804
	1.7			4.0			
MITCHELL PARK ALLEY I.D.#	DUST PROOFING LENGTH (FT)	DUST PROOFING WIDTH (FT)	Thickness(ft)	Area (SFT)	Area (Acre)	Area (SY)	Volume (CFT)
1	505	20	0.2	10100	0.23	1122.2	2020
2	630	20	0.2	12600	0.29	1400.0	2520
3	170	20	0.2	3400	0.08	377.8	680
4	630	20	0.2	12600	0.29	1400.0	2520
 5	625	16	0.2	10000	0.23	1111.1	2000
6	630	20	0.2	12600	0.29	1400.0	2520
7	560	20	0.2	11200	0.26	1244.4	2240
8	600	20	0.2	12000	0.28	1333.3	2400
9	400	20	0.2	8000	0.18	888.9	1600
10	170	20	0.2	3400	0.08	377.8	680
11	600	20	0.2	12000	0.28	1333.3	2400
12	400	20	0.2	8000	0.18	888.9	1600
13	360	20	0.2	7200	0.17	800.0	1440
14	1050	20	0.2	21000	0.48	2333.3	4200
15	1050	20	0.2	21000	0.48	2333.3	4200
16	475	20	0.2	9500	0.22	1055.6	1900
	770	20	0.2	15400	0.35	1711.1	3080
1/					2.55		
17 18		20	0.2	6800	0.16	755.6	1360
17 18 TOTALS	340 9965	20	0.2	6800 196800	0.16 4.5	755.6 21867	1360 39360.00