



**Cultural Resources Records Search for the TEP Kino to DMP 138kV
Transmission Line
Project**

Prepared by:

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Prepared for:

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Revised September 21, 2020



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Tucson Electric Power
3950 East Irvington Road
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RE: Cultural Resources Records Search for the TEP Kino to DMP 138kV Transmission Line Project (Tierra Archaeological Report No. 2020-107)

At your request, Tierra Right of Way Services, Ltd. (Tierra), performed a records search of the Arizona State Museum's (ASM's) online database, AZSITE, to determine the extent of archaeological survey work performed along the 10 proposed route alternatives (Alternatives A, B, C, D, 1, 2, 3, 4, 5, 6) and whether any sites intersect the project corridors. During the course of the study, Routes C, 4, and 6 were determined by Tucson Electric Power (TEP) to not be viable and have been removed from consideration. An additional route, Route E, was later added as an option.

The records search began by identifying all previously recorded sites within 91 m (300 feet) of the project area, and all previous projects that intersect the 10 proposed route alternatives. The search identified a total of 59 projects conducted within the study area. Of these, 8 have been completed within the past 10 years. Areas covered by surveys older than 10 years may require an updated, current survey. In addition, the study area contains a total of 7 previously recorded sites. A total of two sites are along or within a proposed route. National Register Historic Districts or buildings listed on the National Register of Historic Places (NRHP) were also included in the study in case a listed archaeological property was present; however, no such properties are present in the project area, and the remainder of the historic districts and properties are being evaluated as part of a Built Environment Analysis and will not be discussed in further detail in this report. In addition, General Land Office (GLO) maps covering the entire project area were checked for historic properties, but only roads are present on any of the maps, and none of those roads are present in the project area as mapped.

The results of the search by each proposed alternative route (Alternatives 1, 2, 3, 5, A, B, D, and E) and information on archaeological sites within the project area are presented below.

Alternative 1

Alternative 1 is approximately 6.4 km (4.0 miles) in length. Approximately 55 percent (3.5 km [2.2 miles]) of the route has been previously surveyed. Only 4 percent of Alternative 1 has been surveyed in the past 10 years (Figure 1; Table 1). No known archaeological sites are present within this proposed corridor, but one site is present within the 91-m (300-foot) buffer area (Table 2).

Alternative 2

Alternative 2 is approximately 6.4 km (4.0 miles) in length. Approximately 46 percent of the route (3.0 km [1.9 miles]) has been previously surveyed. Only 4 percent of Alternative 2 has been surveyed in the past 10 years (Figure 2, Table 3). No known archaeological sites are present within this proposed corridor, but one site is present in the buffer area (Table 4).

Alternative 3

Alternative 3 is approximately 8 km (5 miles) in length. Approximately 67 percent of the route (5.5 km [3.4 miles]) has been previously surveyed. Only 19 percent of Alternative 3 has been surveyed within the past 10 years (Figure 3; Table 5). The proposed route passes within 30.5 m (100.0 feet) of two archaeological sites, AZ AA:13:445(ASM) and AZ AA:13:648(ASM) (Table 6). Both sites are historic residential areas with buried deposits and should be monitored during ground-disturbing construction within 30.5 m (100.0 feet) of each of the sites.

Alternative 5

Alternative 5 is 8 km (5 miles) in length. Approximately 60 percent of the route (4.8 km [3.0 miles]) has been previously surveyed. Only 24 percent of Alternative 5 has been surveyed within the past 10 years (Figure 4; Table 7). The proposed route passes within 30.5 m (100.0 feet) of two archaeological sites, AZ AA:13:445(ASM) and AZ AA:13:648(ASM) (Table 8). Both sites are historic residential areas with buried deposits, and a monitor should be present during ground-disturbing construction within 30.5 m (100.0 feet) of each of the sites.

Alternative A

Alternative A is approximately 4.7 km (2.9 miles) in length. Approximately 78 percent (3.59 km [2.23 miles]) of the route has been previously surveyed. Just over 67 percent of the alternative has been surveyed within the past 10 years (Figure 5; Table 9). One archaeological site, AZ FF:9:17(ASM), the historic State Route 80, passes through the proposed route (Table 10). The road is considered in-use and therefore no longer qualifies as an archaeological site under the ASM site definition policy. It is unlikely that any mitigation will be necessary for the historic road. However, a portion of the proposed route falls within the City of Tucson's Stone Pipe Sensitivity Zone, and it is likely that the City will require monitoring of all ground disturbance in this area.

Alternative B

Alternative B is approximately 4.8 km (3.0 miles) in length. Approximately 82 percent (3.9 km [2.4 miles]) of the route has been previously surveyed. Seventy percent of the alternative has been surveyed within the past 10 years (Figure 6; Table 11). One archaeological site, AZ FF:9:17(ASM), the historic State Route 80, passes through the proposed route (Table 12). The road is considered in-use and therefore no longer qualifies as an archaeological site under the ASM site definition policy. It is unlikely that any mitigation will be necessary for the historic road. However, a portion of the proposed route falls within the City of Tucson's Stone Pipe Sensitivity Zone, and it is likely that the City will require monitoring of all ground disturbance in this area.

Alternative D

Alternative D is approximately 5.8 km (3.6 miles) in length. Approximately 82 percent (4.7 km [2.9 miles]) of the route has been surveyed while 64 percent of the alternative has been surveyed within the past 10 years (Figure 7; Table 13). One archaeological site, AZ FF:9:17(ASM), the historic State

Route 80, passes through the proposed route (Table 14). The road is considered in-use and therefore no longer qualifies as an archaeological site under the ASM site definition policy. It is unlikely that any mitigation will be necessary for the historic road. However, a portion of the proposed route falls within the City of Tucson's Stone Pipe Sensitivity Zone, and it is likely that the City will require monitoring of all ground disturbance in this area.

Alternative E

Alternative E is approximately 6.1 km (3.8 miles) in length. Approximately 61 percent (3.6 km [2.3 miles]) of the route has been surveyed, and 18 percent has been surveyed within the past 10 years (Figure 8; Table 15). One archaeological site, AZ FF:9:17(ASM), the historic State Route 80, passes through the proposed route (Table 16). The road is considered in-use and therefore no longer qualifies as an archaeological site under the ASM site definition policy. It is unlikely that any mitigation will be necessary for the historic road. However, the route passes along the northern edge of AZ BB:13:156(ASM), the historic Court Street Cemetery, and all ground disturbance within 30.5 m (100.0 feet) of the site will need to be monitored. If any ground disturbance occurs within the site, an Arizona Antiquities Act project-specific permit and a burial agreement will need to be acquired from the ASM. Additionally, the site is considered part of the City of Tucson's Court Street Cemetery Sensitivity Zone. A portion of the proposed route also falls within the City of Tucson's Stone Pipe Sensitivity Zone, and it is likely that the City will require monitoring of all ground disturbance in this area.

Alternatives Analysis

For consistency, Tierra evaluated the alternatives using the same methodology utilized for TEP's IRV-Kino project (Lyon 2018). For that project, TEP identified 11 criteria to be used in their alternatives analysis that are aligned to the Commission for a Certificate of Environmental Compatibility (CEC) decision factors (Arizona Revised Statute §40-360.06) and TEP's design philosophy and standards. Tierra was tasked with assessing Criterion 7, described as:

Known or potentially eligible cultural resources in the corridor as measured by documentation through previous survey effort and ranked by degree of mitigation required (Lyon 2018).

Using Criterion 7, each alternative was scored based on the results of the cultural resources literature and records review, in which locations of recorded cultural resources were overlaid on maps of the study area and the alternatives.

A score of 3 was given to alternatives where no impacts to known or potentially Eligible cultural resources would occur. A score of 2 was given to alternatives where known or potentially Eligible cultural resources would be impacted but could be easily mitigated. A score of 1 would have been given to those alternatives where impacts to known or potentially Eligible cultural resources would occur and could be mitigated, but mitigation could be cost-prohibitive. None of the routes still under consideration warranted a score of 1. Table 17 summarizes the findings.

Alternative E is scored a 2, as it falls within or near two City of Tucson Sensitivity Zones and along the edge of the historic Court Street Cemetery; therefore, extensive monitoring is expected for this route. Alternatives 3 and 5 run adjacent to two historic sites, AZ AA:13:445(ASM) and AZ AA:13:648(ASM), that will require monitoring within 30.5 m (100.0 feet) of their boundaries.

Therefore, those routes are scored a 2. The far western ends of routes A, B, and D fall within the City of Tucson's Stone Pipe Sensitivity Zone, so they will also require monitoring within that zone. AZ FF:9:17(ASM), historic State Route 80, passes through Routes A, B, and D, but the site is considered an in-use historic structure and no longer qualifies as an archaeological site in the State of Arizona. The historic road has been thoroughly documented, so it is unlikely that any further mitigation will be required. Those routes are scored a 3, though some monitoring will be necessary within the sensitivity zone. Alternatives 1 and 2 have no known cultural concerns, so they both score a 3.

In terms of survey needs, large portions of Alternatives 1–5 and E may require a Class III survey, while Routes A–D may require a more limited Class III survey. As each alternative is located in a completely developed area, it is unlikely that new sites will be found during the survey process. It is possible that the City of Tucson may not require additional survey because the area in question is entirely developed.

Route Combinations

All routes were also scored as viable combinations (Table 18). A combination of Routes 1 or 2 with Routes A and B are scored a 3, as they require minimal monitoring within COI sensitivity zones and no cultural resources are anticipated. In the event that TEP is able to combine Routes 1 or 2 with Route D, that combination is also scored a 3 for the same reason. All other route combinations score a 2, as they require monitoring within sensitivity zones as well as along or within previously recorded archaeological sites. As no data recovery or other extensive mitigation measures are anticipated for any of the route combinations, none received a score of 1.

Recommendations

Because none of the alternatives have been surveyed in their entirety within the past 10 years, Tierra recommends Class III surveys for the selected alternative(s) prior to construction to determine if sites are present and whether further mitigation is necessary. However, because each alternative follows existing developed road rights-of-way, and no significant prehistoric or historic archaeological sites have been identified in this part of Tucson, there is little potential for the survey to identify significant archaeological sites within any of the project corridors. As Alternatives A and B have been surveyed to a larger degree within the past 10 years, and Alternatives 1 and 2 have no known archaeological sites, Tierra recommends that TEP utilize any combination of these routes to minimize costs related to archaeological mitigation. A combination of Routes 1 or 2 with Route D would also be an equally preferred option, if that option becomes viable. However, none of the routes are considered prohibitive based on archaeological concerns. Tierra further recommends that TEP consult with the City of Tucson's Historic Preservation Officer to determine if the City will require additional survey for this proposed project.

If you have any questions, please feel free to contact me at (520) 319-2106.

Sincerely,



Chance Copperstone, M.A.
Project Manager
Environmental Planning and Cultural Resources Division

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 1. Alternative 1 map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 2. Alternative 2 map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 3. Alternative 3 map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 4. Alternative 5 map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

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Figure 5. Alternative A map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 6. Alternative B map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 7. Alternative D map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

MAP REDACTED DUE TO SENSITIVE SITE LOCATIONS

Figure 8. Alternative E map showing proposed alternative routes with intersecting previous projects and sites within 91 m (300 feet) (CONFIDENTIAL, public disclosure is prohibited by ARS §39-125).

Table 1. Summary of Previous Projects That Intersect Proposed Alternative Route 1

ASM No.	Project Name	Company	Reference
1955-3.ASM	Southern Pacific Pipeline Survey	Southern Pacific	McConville and Holzkomper 1955
1970-9.ASM	Campbell T.I.—22nd Street	unknown	unknown
1987-141.ASM	Proposed CAP East, Phase I Design Water Pipeline Alignment, Pima County	Arizona State Museum	Euler 1987
1993-163.ASM	Plumer-22nd Street to Himmel Park Survey	Desert Archaeology, Inc.	Elson 1993
1994-323.ASM	Campbell-3rd St. Reclaimed Water Main Survey	Desert Archaeology, Inc.	Eppley 1995
1996-111.ASM	Kino and 36th Survey	Desert Archaeology, Inc.	Lindeman 1996
1997-105.ASM	Tucson Boulevard-Elm Street Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997a
1997-28.ASM	Kino Community Center Reclaimed Water Main Project	Desert Archaeology, Inc.	Eppley 1997b
1997-322.ASM	22nd Street/ Santa Rita Main Survey	Desert Archaeology, Inc.	Thiel 1998
1997-33.ASM	Kino-Silverlake Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997c
1997-34.ASM	Broadway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997d
1998-265.ASM	Speedway Campbell Survey	Desert Archaeology, Inc.	Diehl 1998a
1998-37.ASM	Cherry Avenue Main Survey	Desert Archaeology, Inc.	Vint 1998
1999-587.ASM	PBNS Level 3 Fiber Optic Line	SWCA	Doak 1999
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000
2002-372.ASM	18th Street/10th Ave Main Survey	Desert Archaeology, Inc.	Diehl 2002a
2003-398.ASM	Bus Pullouts, Phase I Survey	Desert Archaeology, Inc.	Diehl 2003a
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2006-767.ASM	Modern Streetcar Survey	Desert Archaeology, Inc.	Diehl 2006a
2009-832.ASM	22nd Street Survey	Tierra Right of Way Services	Jones 2009a
2016-425.ASM	COT #16-18 Broadway Blvd Between Euclid Ave. and Country Club Rd.	Westland Resources	King 2016

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 2. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route 1

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ BB:13:125(ASM)	Mexican-American, Euroamerican	well and artifact scatter	Not Eligible (SHPO)	unknown

Table 3. Summary of Previous Projects That Intersect Proposed Alternative Route 2

ASM No.	Project Name	Company	Reference
1955-3.ASM	Southern Pacific Pipeline Survey	Southern Pacific	McConville and Holzkomper 1955
1987-141.ASM	Proposed CAP East, Phase I Design Water Pipeline Alignment, Pima County	Arizona State Museum	Euler 1987
1993-163.ASM	Plumer-22nd Street to Himmel Park Survey	Desert Archaeology, Inc.	Elson 1993
1994-323.ASM	Campbell-3rd St. Reclaimed Water Main Survey	Desert Archaeology, Inc.	Eppley 1995
1997-105.ASM	Tucson Boulevard-Elm Street Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997a
1997-28.ASM	Kino Community Center Reclaimed Water Main Project	Desert Archaeology, Inc.	Eppley 1997b
1997-322.ASM	22nd Street/ Santa Rita Main Survey	Desert Archaeology, Inc.	Thiel 1998
1997-33.ASM	Kino-Silverlake Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997c
1997-34.ASM	Broadway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997d
1998-265.ASM	Speedway Campbell Survey	Desert Archaeology, Inc.	Diehl 1998a
1998-37.ASM	Cherry Avenue Main Survey	Desert Archaeology, Inc.	Vint 1998
1999-348.ASM	CAP Main Manhole Survey	Desert Archaeology, Inc.	Diehl 1999a
1999-587.ASM	PBNS Level 3 Fiber Optic Line	SWCA	Doak 1999
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000
2001-243.ASM	36th Street Housing Survey	Desert Archaeology, Inc.	Diehl 2001
2002-372.ASM	18th Street/10th Ave Main Survey	Desert Archaeology, Inc.	Diehl 2002a
2003-398.ASM	Bus Pullouts, Phase I Survey	Desert Archaeology, Inc.	Diehl 2003a
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2006-767.ASM	Modern Streetcar Survey	Desert Archaeology, Inc.	Diehl 2006a
2009-832.ASM	22nd Street Survey	Tierra Right of Way Services	Jones 2009a
2016-425.ASM	COT #16-18 Broadway Blvd Between Euclid Ave. and Country Club Rd.	Westland Resources	King 2016

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 4. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route 2

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ BB:13:740(ASM)	Euroamerican	concrete foundation	Not Eligible (Recorder)	Doak 2007a

Table 5. Summary of Previous Projects That Intersect Proposed Alternative Route 3

ASM No.	Project Name	Company	Reference
1955-3.ASM	Southern Pacific Pipeline Survey	Southern Pacific	McConville and Holzkomper 1955
1970-9.ASM	Campbell T.I. - 22nd Street	unknown	unknown
1984-60.ASM	SR210 Detention Basin Survey	Arizona State Museum	Strand 1984
1987-141.ASM	Proposed CAP East, Phase I Design Water Pipeline Alignment, Pima County	Arizona State Museum	Euler 1987
1996-111.ASM	Kino and 36th Survey	Desert Archaeology, Inc.	Lindeman 1996
1997-116.ASM	Archaeological Survey for Tucson Mission Industries	Archaeological Consulting Services	Aguila 1997
1997-28.ASM	Kino Community Center Reclaimed Water Main Project	Desert Archaeology, Inc.	Eppley 1997a
1997-322.ASM	22nd Street/ Santa Rita Main Survey	Desert Archaeology, Inc.	Thiel 1998
1997-33.ASM	Kino-Silverlake Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997b
1997-34.ASM	Broadway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997c
1997-35.ASM	Speedway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997d
1998-265.ASM	Speedway Campbell Survey	Desert Archaeology, Inc.	Diehl 1998a
1998-311.ASM	Broadway/Park Pedestrian Survey	Desert Archaeology, Inc.	Diehl 1998b
1998-37.ASM	Cherry Avenue Main Survey	Desert Archaeology, Inc.	Vint 1998
1999-99.ASM	University Blvd./6th Ave. Main Survey	Desert Archaeology, Inc.	Diehl 1999a
1999-587.ASM	PBNS Level 3 Fiber Optic Line	SWCA	Doak 1999
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000
2001-139.ASM	Block 42 Buell's Addition Survey	Desert Archaeology, Inc.	Brack 2001
2002-325.ASM	Euclid and Speedway Improvements Survey	Desert Archaeology, Inc.	Diehl 2002b
2002-372.ASM	18th Street/10th Ave Main Survey	Desert Archaeology, Inc.	Diehl 2002a
2003-1318.ASM	Highland Avenue Survey	Harris Environmental Group	Fahrni 2003
2005-927.ASM	1099 East Broadway Survey	Desert Archaeology, Inc.	Diehl 2005
2006-36.ASM	Broadway Campbell Advance Acquisition Survey	Desert Archaeology, Inc.	Hall 2006
2006-734.ASM	Feldman's Neighborhood Survey	Desert Archaeology, Inc.	Diehl 2006b
2006-767.ASM	Modern Streetcar Survey	Desert Archaeology, Inc.	Diehl 2006a
2009-204.ASM	Euclid Ave Survey	Tierra Right of Way Services	Jones 2009b
2009-832.ASM	22nd Street Survey	Tierra Right of Way Services	Jones 2009c
2010-57.ASM	COT 09-53 San Antonio Neighborhood Reinvestment	SWCA	Tucker 2010a
2011-383.ASM	Park Avenue-Speedway to Fort Lowell Survey	Desert Archaeology, Inc.	Diehl 2012
2016-425.ASM	COT #16-18 Broadway Blvd Between Euclid Ave. and Country Club Rd.	Westland Resources	King 2016

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 6. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route 3

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ BB:13:648(ASM)	Euroamerican	habitation	Not Eligible (Recorder)	unknown
AZ BB:13:445(ASM)	Euroamerican	habitation	unknown	Sterner et al. 1997
AZ BB:13:125(ASM)	Mexican-American, Euroamerican	well and artifact scatter	Not Eligible (SHPO)	unknown
AZ BB:13:740(ASM)	Euroamerican	concrete foundation	Not Eligible (Recorder)	Doak 2007a

Table 7. Summary of Previous Projects That Intersect Proposed Alternative Route 5

ASM No.	Project Name	Company	Reference
1955-3.ASM	Southern Pacific Pipeline Survey	Southern Pacific	McConville and Holzkamper 1955
1984-60.ASM	SR210 Detention Basin Survey	Arizona State Museum	Strand 1984
1987-141.ASM	Proposed CAP East, Phase I Design Water Pipeline Alignment, Pima County	Arizona State Museum	Euler 1987
1997-116.ASM	Archaeological Survey for Tucson Mission Industries	Archaeological Consulting Services	Aguila 1997
1997-28.ASM	Kino Community Center Reclaimed Water Main Project	Desert Archaeology, Inc.	Eppley 1997a
1997-322.ASM	22nd Street/ Santa Rita Main Survey	Desert Archaeology, Inc.	Thiel 1998
1997-33.ASM	Kino-Silverlake Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997b
1997-34.ASM	Broadway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997c
1997-35.ASM	Speedway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997d
1998-265.ASM	Speedway Campbell Survey	Desert Archaeology, Inc.	Diehl 1998a
1998-311.ASM	Broadway/Park Pedx Survey	Desert Archaeology, Inc.	Diehl 1998b
1998-37.ASM	Cherry Avenue Main Survey	Desert Archaeology, Inc.	Vint 1998
1999-348.ASM	CAP Main Manhole Survey	Desert Archaeology, Inc.	Diehl 1999a
1999-587.ASM	PBNS Level 3 Fiber Optic Line	SWCA	Doak 1999
1999-99.ASM	University Blvd./6th Ave. Main Survey	Desert Archaeology, Inc.	Diehl 1999b
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000
2001-139.ASM	Block 42 Buell's Addition Survey	Desert Archaeology, Inc.	Brack 2001
2001-243.ASM	36th Street Housing Survey	Desert Archaeology, Inc.	Diehl 2001
2002-325.ASM	Euclid and Speedway Improvements Survey	Desert Archaeology, Inc.	Diehl 2002b
2002-372.ASM	18th Street/10th Ave Main Survey	Desert Archaeology, Inc.	Diehl 2002a
2003-1318.ASM	Highland Avenue Survey	Harris Environmental Group	Fahrni 2003

ASM No.	Project Name	Company	Reference
2005-927.ASM	1099 East Broadway Survey	Desert Archaeology, Inc.	Diehl 2005
2006-36.ASM	Broadway Campbell Advance Acquisition Survey	Desert Archaeology, Inc.	Hall 2006
2006-734.ASM	Feldman's Neighborhood Survey	Desert Archaeology, Inc.	Diehl 2006b
2006-767.ASM	Modern Streetcar Survey	Desert Archaeology, Inc.	Diehl 2006a
2009-204.ASM	Euclid Ave Survey	Tierra Right of Way Services	Jones 2009b
2009-832.ASM	22nd Street Survey	Tierra Right of Way Services	Jones 2009a
2010-57.ASM	COT 09-53 San Antonio Neighborhood Reinvestment	SWCA	Tucker 2010a
2011-383.ASM	Park Avenue-Speedway to Fort Lowell Survey	Desert Archaeology, Inc.	Diehl 2012
2016-425.ASM	COT #16-18 Broadway Blvd Between Euclid Ave. and Country Club Rd.	Westland Resources	King 2016

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 8. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route 5

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ BB:13:445(ASM)	Euroamerican	habitation	unknown	Sterner et al. 1997
AZ BB:13:648(ASM)	Euroamerican	habitation	Not Eligible (Recorder)	unknown

Table 9. Summary of Previous Projects That Intersect Proposed Alternative Route A

ASM No.	Project Name	Company	Reference
1980-155.ASM	Santa Cruz/SW Interceptor Project	Arizona State Museum	Adams et al. 1980
1991-88.ASM	Archaeological Survey of Glenn-Fairview Main Replacement	Desert Archaeology, Inc.	Eppley 1991a
1991-91.ASM	Archaeological Survey of Fairview Avenue - Grant Road to 15th Avenue Widening	Desert Archaeology, Inc.	Eppley 1991b
1995-323.ASM	MOUNTAIN/GRANT-FORT LOWELL	Desert Archaeology, Inc.	Swartz 1995
1998-267.ASM	Miracle Manor Survey	Desert Archaeology, Inc.	Diehl 1998c
2000-723.ASM	AT&T NexGen/Core Project Link 3 Class 3 Survey	Western Cultural Resource Management	Kearns et al. 2001
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2004-679.ASM	AT&T NexGen/Core Project	Western Cultural Resource Management	Baker 2004
2010-180.ASM	COT 10-08 Grant Road and Oracle Intersection	SWCA	Tucker 2010b

ASM No.	Project Name	Company	Reference
2010-208.ASM	COT 10-14 4th Avenue/Fontana Avenue Bike Boulevard Project	SWCA	Tucker 2010c
2011-341.ASM	Survey in Support of Grant Road Corridor Acquisition	Statistical Research, Inc.	White 2011
2011-383.ASM	Park Avenue-Speedway to Fort Lowell Survey	Desert Archaeology, Inc.	Diehl 2012
2014-323.ASM	Grant Road Survey from Oracle to Swan	William Self Associates	Wygant and Boley 2014

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 10. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route A

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ FF:9:17(ASM)	Euroamerican	road trail	Eligible (SHPO)	Fahrni 2005

Table 11. Summary of Previous Projects That Intersect Proposed Alternative Route B

ASM No.	Project Name	Company	Reference
1980-155.ASM	Santa Cruz/SW Interceptor Project	Arizona State Museum	Adams et al. 1980
1991-88.ASM	Glenn-Fairview Main Replacement Survey	Desert Archaeology, Inc.	Eppley 1991a
1991-91.ASM	Archaeological Survey of Fairview Avenue - Grant Road to 15th Avenue Widening	Desert Archaeology, Inc.	Eppley 1991b
1996-102.ASM	Grant-First Survey	Desert Archaeology, Inc.	Swartz 1996
1997-35.ASM	Speedway-Campbell Main Replacement Survey	Desert Archaeology, Inc.	Eppley 1997e
1998-267.ASM	Miracle Manor Survey	Desert Archaeology, Inc.	Diehl 1998
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000a
2000-723.ASM	AT&T NexGen/Core Project Link 3 Class 3 Survey	Western Cultural Resource Management	Kearns et al. 2001
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2004-679.ASM	AT&T NexGen/Core Project	Western Cultural Resource Management	Baker 2004
2007-774.ASM	Jefferson Park Sidewalks Survey	Tierra Right of Way	Doak 2007b
2010-180.ASM	COT 10-08 Grant Road and Oracle Intersection	SWCA	Tucker 2010b
2010-208.ASM	COT 10-14 4th Avenue/Fontana Avenue Bike Boulevard Project	SWCA	Tucker 2010c
2011-341.ASM	Survey for Grant Road Corridor Acquisition	Statistical Research, Inc.	White 2011
2011-383.ASM	Park Avenue-Speedway to Fort Lowell	Desert Archaeology, Inc.	Diehl 2012
2014-323.ASM	Grant Road Survey, Oracle to Swan	William Self Associates	Wygant and Boley 2014

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 12. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route B

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ FF:9:17(ASM)	Euroamerican	road trail	Eligible (SHPO)	Fahrni 2005

Table 13. Summary of Previous Projects That Intersect Proposed Alternative Route D

ASM No.	Project Name	Company	Reference
1980-155.ASM	Santa Cruz/SW Interceptor Project	Arizona State Museum	Adams et al. 1980
1991-88.ASM	Archaeological Survey of Glenn-Fairview Main Replacement	Desert Archaeology, Inc.	Eppley 1991a
1991-91.ASM	Archaeological Survey of Fairview Avenue—Grant Road to 15th Avenue Widening	Desert Archaeology, Inc.	Eppley 1991b
1994-47.ASM	Grant Road and Campbell Avenue Survey	Desert Archaeology, Inc.	Swartz 1994
1995-323.ASM	Mountain/Grant-Fort Lowell	Desert Archaeology, Inc.	Swartz 1995
1996-282.ASM	Archaeological Survey of Water Main Alignments in the Vicinity of Glenn and Mountain, Tucson	Desert Archaeology, Inc.	Sliva 1996
1997-105.ASM	Tucson Boulevard-Elm Street Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997d
1998-267.ASM	Miracle Manor Survey	Desert Archaeology, Inc.	Diehl 1998c
2000-723.ASM	AT&T NexGen/Core Project Link 3 Class 3 Survey	Western Cultural Resource Management	Kearns et al. 2001
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2004-679.ASM	AT&T NexGen/Core Project	Western Cultural Resource Management	Baker 2004
2010-180.ASM	COT 10-08 Grant Road and Oracle Intersection	SWCA	Tucker 20b0a
2010-208.ASM	COT 10-14 4th Avenue/Fontana Avenue Bike Boulevard Project	SWCA	Tucker 2010c
2011-341.ASM	Survey in Support of Grant Road Corridor Acquisition	Statistical Research, Inc.	White 2011
2011-383.ASM	Park Avenue-Speedway to Fort Lowell Survey	Desert Archaeology, Inc.	Diehl 2012
2014-323.ASM	Grant Road Survey from Oracle to Swan	William Self Associates	Wygant and Boley 2014

Note: Bolded survey numbers are those that occurred within the past 10 years.

Table 14. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route D

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ FF:9:17(ASM)	Euroamerican	road trail	Eligible (SHPO)	Fahrni 2005

Table 15. Summary of Previous Projects That Intersect Proposed Alternative Route E

ASM No.	Project Name	Company	Reference
1980-155.ASM	Santa Cruz/SW Interceptor Project	Arizona State Museum	Adams et al. 1980
1991-88.ASM	Archaeological Survey of Glenn-Fairview Main Replacement	Desert Archaeology, Inc.	Eppley 1991a
1991-91.ASM	Archaeological Survey of Fairview Avenue - Grant Road to 15th Avenue Widening	Desert Archaeology, Inc.	Eppley 1991b
1992-213.ASM	3rd Avenue 'A' Zone Transmission Main	Desert Archaeology, Inc.	Levi 1993
1997-35.ASM	Speedway-Campbell Main Replacement Project Survey	Desert Archaeology, Inc.	Eppley 1997a
1998-265.ASM	Speedway Campbell Survey	Desert Archaeology, Inc.	Diehl 1998a
1998-267.ASM	Miracle Manor Survey	Desert Archaeology, Inc.	Diehl 1998c
1998-38.ASM	Broadway Boulevard/6th Avenue Water Main Survey	Desert Archaeology, Inc.	Vint 1998
1999-99.ASM	University Blvd./6th Ave. Main Survey	Desert Archaeology, Inc.	Diehl 1999b
2000-284.ASM	Moratorium Streets Survey	Desert Archaeology, Inc.	Diehl 2000
2000-723.ASM	AT&T NexGen/Core Project Link 3 Class 3 Survey	Western Cultural Resource Management	Kearns et al. 2001
2001-628.ASM	Northwest Quadrant Main Survey	Desert Archaeology, Inc.	Cook 2001
2002-325.ASM	Euclid and Speedway Improvements Survey	Desert Archaeology, Inc.	Diehl 2002b
2003-1490.ASM	Aviation/3rd Manhole Survey	Desert Archaeology, Inc.	Diehl 2003b
2004-1035.ASM	Sidewalk Program Survey	Desert Archaeology, Inc.	Hall 2004
2004-324.ASM	Corrosion Prevention Project Assessment and Survey	Desert Archaeology, Inc.	Diehl 2004
2004-679.ASM	AT&T NexGen/Core Project	Western Cultural Resource Management	Baker 2004
2006-733.ASM	Oracle-Main-Drachman Survey	Desert Archaeology, Inc.	Diehl 2006c
2006-734.ASM	Feldman's Neighborhood Survey	Desert Archaeology, Inc.	Diehl 2006b
2010-180.ASM	COT 10-08 Grant Road and Oracle Intersection	SWCA	Tucker 2010b
2010-208.ASM	COT 10-14 4th Avenue/Fontana Avenue Bike Boulevard Project	SWCA	Tucker 2010c
2010-366.ASM	Stone Avenue Improvements Survey	Tierra Right of Way Services	Doak 2010
2011-383.ASM	Park Avenue-Speedway to Fort Lowell Survey	Desert Archaeology, Inc.	Diehl 2012
2012-469.ASM	6th Avenue Tucson	Northland Research, Inc.	Cox 2012

Table 16. Previously Recorded Archaeological Sites within 91 m (300 feet) of Proposed Alternative Route E

Site No.	Affiliation	Site Type	Eligibility Status	Reference
AZ BB:13:156(ASM)	Mexican-American, Euroamerican	Burial	Not Eligible (SHPO)	Thiel and Margolis 2007
AZ FF:9:17(ASM)	Euroamerican	Road Trail	Eligible (SHPO)	Fahrni 2005

Table 17. Summary of Route Analysis

Alternative	Length (Miles)	% Surveyed	% Surveyed Past 10 Years	# Sites in Buffer	In Sensitivity Zone	Requires Monitoring
1	4	55	4	1	n/a	n/a
2	4	46	4	1	n/a	n/a
3	5	67	19	4	n/a	yes
5	5	60	24	2	n/a	yes
A	2.9	78	67	1	Stone Pipe	yes
B	3	82	70	1	Stone Pipe	yes
D	3.6	82	64	1	Stone Pipe	yes
E	3.8	61	18	2	Stone Pipe and Court Street Cemetery	yes

Table 18. Route Combination Scores

Route Combination	Score
1A	3
1B	3
1D	3
1E	2
2A	3
2B	3
2D	3
2E	2
3A	2
3D	2
5A	2
5D	2

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