

Repl pgs #11

MAR 08 2012

Chandler



Chandler · Arizona
Where Values Make The Difference

MEMORANDUM Transportation & Development Dept. Council Memo No. TDA12-068

DATE: MARCH 6, 2012

TO: MAYOR & COUNCIL

THRU: RICH DLUGAS, CITY MANAGER *RD*
 PAT MCDERMOTT, ASSISTANT CITY MANAGER *[Signature]*

FROM: R.J. ZEDER, TRANSPORTATION & DEVELOPMENT DIRECTOR *[Signature]*

SUBJECT: WESTERN CANAL MULTI-USE PATH CROSSING AT UNION PACIFIC
 RAILROAD – TRANSPORTATION ENHANCEMENT GRANT
 APPLICATION – RESOLUTION #4579

This memo is written to address some questions that were asked at the study session of March 5, 2012 regarding the staff proposal to seek grant funding to improve the Western Canal multi-use path at the point where it intersects with the Union Pacific Railroad.

This location is not currently designated as a public rail crossing. Should the City desire to have this designation applied, the crossing must be built to current design standards as detailed in the Manual for Uniform Traffic Control Devices (MUTCD). While the minimum standard for a public rail crossing is the typical railroad cross-buck sign, staff believes that the Arizona Corporation Commission (ACC) and/or the Union Pacific Railroad will require automatic flashing warning lights and gates. Staff conservatively estimates that this project would cost approximately \$486,000 of which 94.3% would be federally funded.

This amount includes approximately \$100,000 in design/permitting costs along with \$386,000 to construct the crossing improvements. The most expensive component of this project is the installation of the flashing warning lights and gates which we estimate will cost approximately \$175,000.

Separately, staff is currently pursuing a quiet zone designation for this rail line from Elliot Road south to Germann Road. This section was selected as the at-grade crossings in this corridor are already improved with flashing warning lights and gates. The notice of intent to declare this section of track a quiet zone was issued in December, 2010. We are currently awaiting a response from the Federal Railroad Administration (FRA) regarding our request for two design waivers given the low volumes of train traffic on this line. The FRA response was due in January, 2012. Assuming a favorable response, the City can then issue the Notice of Establishment for the Quiet Zone.

Should the western canal crossing be improved with gates, signals and fencing, we would seek to have this section of track designated as a quiet zone as well. Over time, staff will seek funding opportunities to improve the crossings at Ryan Road and Appleby Road which do not currently have gates to allow for potential quiet zone designation of the entire length of this rail line as it runs through Chandler.

Attached for your information are letters from SRP and the Coalition of Arizona Bicyclists in support of the proposed project.

Please let me know if you have any questions or would like additional information.



Add info # 11
MAR 08 2012
Chandler

2010

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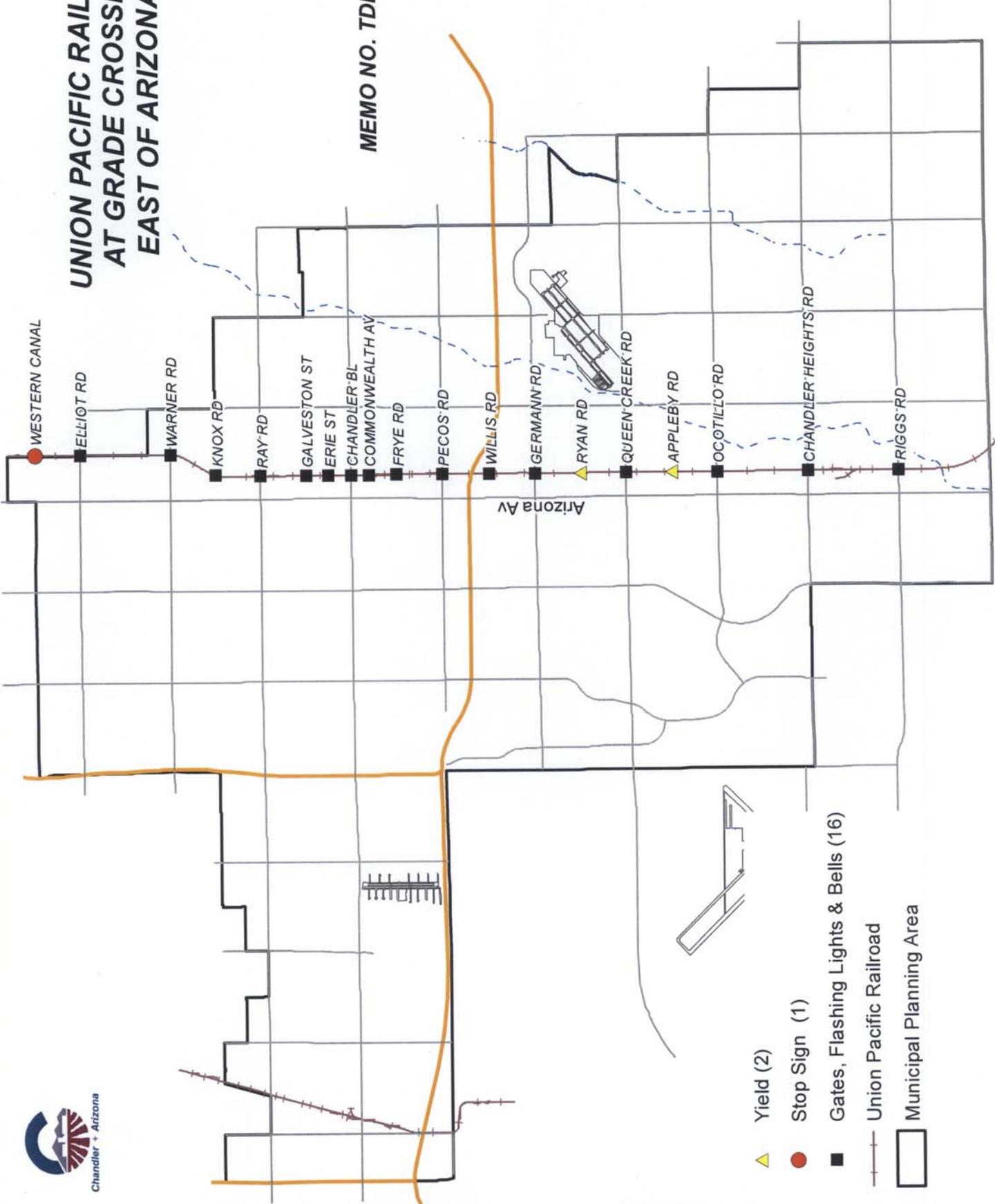
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Please let me know if you have any questions or would like additional information.



UNION PACIFIC RAILROAD AT GRADE CROSSINGS EAST OF ARIZONA AV

MEMO NO. TDE12-068



-  Yield (2)
-  Stop Sign (1)
-  Gates, Flashing Lights & Bells (16)
-  Union Pacific Railroad
-  Municipal Planning Area





*P.O. Box 52025
Mail Station: PAB106
Phoenix, Arizona 85072-2025
(602) 236-5900
www.srpnet.com*

March 6, 2012

Mr. Paul Young
City of Chandler
Transportation & Development Department
Mail Stop 105
P.O. Box 4008
Chandler, AZ 85244-4008

RE: Union Pacific Railroad Crossing along SRP Irrigation Canal

Dear Mr. Young,

This letter supports the efforts of the City of Chandler in the pursuit of a recreational crossing of the Union Pacific Railroad tracks, one half mile east of Arizona Avenue, along the SRP irrigation canal. SRP currently has a permit to cross the railroad tracks for purposes of operation and maintenance of the irrigation facilities. This location is a critical link to more than fifty miles of recreational trail currently developed along the banks of SRP canals.

SRP supports the use of the SRP canal system for recreational trails and has forged relationships with various Maricopa County municipalities in the creation of such projects since 1964. Creating a safe crossing of the railroad tracks at this location would be a great amenity for the many area residents that utilize these trails for recreation.

SRP has been successful in working with the City of Chandler in the creation of many miles of these trails and we look forward to the completion of this important link.

Sincerely,

A handwritten signature in black ink that reads "Jim Duncan". The signature is written in a cursive style with a large, sweeping "J" and "D".

Jim Duncan
SRP Senior Analyst
SRP Canal Multiple-Use Program

tjr



February 27, 2012

City of Chandler
Transportation & Development Department
Mail Stop 105
P.O. Box 4008
Chandler, AZ 85244-4008

Attn: Paul Young
Re: Western Canal Multi-Use Path Improvements at UPRR Crossing

Dear Mr. Young,

Thank you for sharing the details and objectives of the proposed Transportation Enhancement project to improve the safety and connectivity of the Western Canal Multi-Use Path at the Union Pacific Railroad crossing near the Chandler/Gilbert border. We understand that project, if funded, would do the following:

- Establish this crossing area as a public crossing through the Arizona Corporation Commission, allowing Chandler to work with the Railroad and SRP to make the following connectivity and safety improvements.
- Connect the eastern terminus of Chandler's portion of the Western Canal to Gilbert's western terminus.
- Replace a gravel and stop sign-controlled crossing with a paved crossing (on both sides of the railroad tracks) and automatic warning signals and crossing gates for the path.

We strongly support this project based on both the safety and connectivity improvements that would result. We believe that the Western Canal Multi-Use Path has created a great benefit for your community, and the bordering cities of Tempe and Gilbert, and that it promotes both walking and bicycling for commuting, going to school and exercising for health and fitness. This project would further enhance those benefits.

Sincerely,

Robert (Bob) Beane, President
Coalition of Arizona Bicyclists
PO Box 54488
Phoenix, AZ 85078-4488
480-861-7750



11

MAR 08 2012



MEMORANDUM Transportation & Development-TDA12-059

DATE: MARCH 8, 2012

TO: MAYOR AND CITY COUNCIL

THRU: RICH DLUGAS, CITY MANAGER *RD*
PAT MCDERMOTT, ASSISTANT CITY MANAGER
R.J. ZEDER, TRANSPORTATION & DEVELOPMENT DIRECTOR *RJZ*
DANIEL W. COOK, TRANSPORTATION MANAGER *DWC*
SHEINA HUGHES, CITY ENGINEER *SH*

FROM: PAUL YOUNG, SENIOR ENGINEER *PHY*

SUBJECT: RECOMMEND APPROVAL OF RESOLUTION 4579 OF THE CITY OF CHANDLER, MARICOPA COUNTY, ARIZONA, AUTHORIZING APPROVAL OF AN APPLICATION FOR TRANSPORTATION ENHANCEMENT FUNDS FOR AN APPROXIMATE TOTAL OF \$486,125 (FEDERAL FUNDS \$453,701; LOCAL MATCH \$27,424; ADOT REVIEW FEE \$5,000) FOR THE WESTERN CANAL MULTI-USE PATH CROSSING AT THE UNION PACIFIC RAILROAD.

RECOMMENDATION: Staff recommends Mayor and Council approval of Resolution No. 4579 approving an application for Transportation Enhancement Funds for an approximate total of \$486,125 (Federal Funds \$453,701; Local Match \$27,424; Arizona Department of Transportation (ADOT) Review Fee \$5,000) for an approximate total of \$486,125 for the Western Canal Multi-Use Path Crossing at the Union Pacific Railroad.

BACKGROUND: On the south side of the Western Canal from Price Road to the Union Pacific Railroad (UPRR), there is an existing lighted concrete path for pedestrian/bicycle use. This path is a part of an overall trail system (Maricopa County Regional Bicycle Trail System) that extends into the City of Tempe to the west and the Town of Gilbert to the east. The City of Chandler's portion of the path jurisdiction terminates on the east side of the UPRR right-of-way (ROW) approximately 1/2 mile east of Arizona Avenue. However, the concrete path ends on the west side of the UPRR ROW. Within the UPRR ROW, the crossing consists of a gravel Salt River Project maintenance road with wooden planks and stop sign control. On the east side of the UPRR ROW, an existing path continues east within the Town of Gilbert.

DISCUSSION: As part of the FHWA SAFETEA-LU Enhancement Program, ADOT is considering projects that enhance surface transportation sites. Approximately \$10 to \$16 million per year is available for projects statewide. Eligible projects include improvements to pedestrian/bicycle facilities.

Staff is proposing to submit an application to ADOT for improvements to the Western Canal crossing at UPRR. The project scope includes constructing a 10-foot concrete multi-use path with at-grade railroad improvements to connect the City of Chandler and Town of Gilbert paths. At-grade railroad improvements are proposed to include automatic flashing light signals with gates plus concrete plank panels. Staff is working with the Arizona Corporation Commission and UPRR to establish this location as a public crossing.

FINANCIAL IMPLICATIONS:

Total approximate project cost = \$486,125

Enhancement funds (Federal Funds at 94.3%) = \$453,701

City of Chandler matching funds (Local Match at 5.7%) = \$27,424

ADOT review fee (City of Chandler cost) = \$5,000

Design cost: \$100,000 will occur in Federal Fiscal Year 2013

Construction: \$386,125 will occur in Federal Fiscal Year 2015

If Transportation Enhancements Funds are awarded for this project, the City is responsible to provide funding for the local match, cost overruns, and the ADOT review fee. Additionally, staff will come forward to Council for design and construction contract approvals.

PROPOSED MOTION: Approve Resolution No. 4579 approving an application for Transportation Enhancement Funds for an approximate total of \$486,125 (Federal Funds \$453,701; Local Match \$27,424; ADOT Review Fee \$5,000) for an approximate total of \$486,125 for the Western Canal Multi-Use Path Crossing at the Union Pacific Railroad; and authorizing the City Manager or his designee to conduct all negotiations and execute and submit all documents and other necessary or desirable instruments in connection with said funds.

Attachments: Resolution No. 4579, Location Map, Draft Project Application

RESOLUTION NO. 4579

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CHANDLER, MARICOPA COUNTY, ARIZONA, APPROVING AN APPLICATION FOR TRANSPORTATION ENHANCEMENT FUNDS FOR AN APPROXIMATE TOTAL OF \$486,125 (FEDERAL FUNDS \$453,701; LOCAL MATCH \$27,424; ADOT REVIEW FEE \$5,000) FOR THE WESTERN CANAL MULTI-USE PATH CROSSING AT THE UNION PACIFIC RAILROAD

WHEREAS, the Arizona Department of Transportation (ADOT) is seeking proposals from government agencies for transportation enhancement projects; and

WHEREAS, the City of Chandler desires funding for the Western Canal Multi-Use Path Crossing at the Union Pacific Railroad; and

WHEREAS, the total approximate project cost is \$486,125 (Federal Funds \$453,701; Local Match \$27,424; ADOT Review Fee \$5,000); and

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Chandler, Arizona, as follows:

Section 1. That an application seeking approximately \$486,125 (Federal Funds \$453,701; Local Match \$27,424; ADOT Review Fee \$5,000) for the Western Canal Multi-Use Path Crossing at the Union Pacific Railroad be submitted to the ADOT for consideration to receive transportation enhancement funding for Round 19 of the ADOT SAFETEA-LU Enhancement Program.

Section 2. Approves commitment, if the reimbursement is awarded to the City of Chandler, to provide a minimum 5.7% local match (approximately \$27,424) and any overmatch toward the total project costs exceeding approximately \$481,125 to fund project scoping documents, design, environmental, right-of-way, construction, and utility clearances; be ready to advertise the project in 36 months from Notice-to-Proceed; pay for all cost overruns; reimburse ADOT/FHWA for all federal funds used, if the project is cancelled by the City of Chandler; provide ADOT with a review fee of \$5,000; and commit to a Joint Project Agreement (if necessary).

Section 3. That Rich Dlugas, City Manager or his designees, be authorized to conduct all negotiations and to execute and submit all documents and other necessary or desirable instruments in connection with said funds.

PASSED AND ADOPTED by the City Council of the City of Chandler, Arizona, this _____ day of _____, 2012.

ATTEST:

CITY CLERK

MAYOR

CERTIFICATION

I HEREBY CERTIFY that the above and foregoing Resolution No. 4579 was duly passed and adopted by the City Council of Chandler, Arizona, at a regular meeting held on the ____ day of _____, 2012, and that a quorum was present thereat.

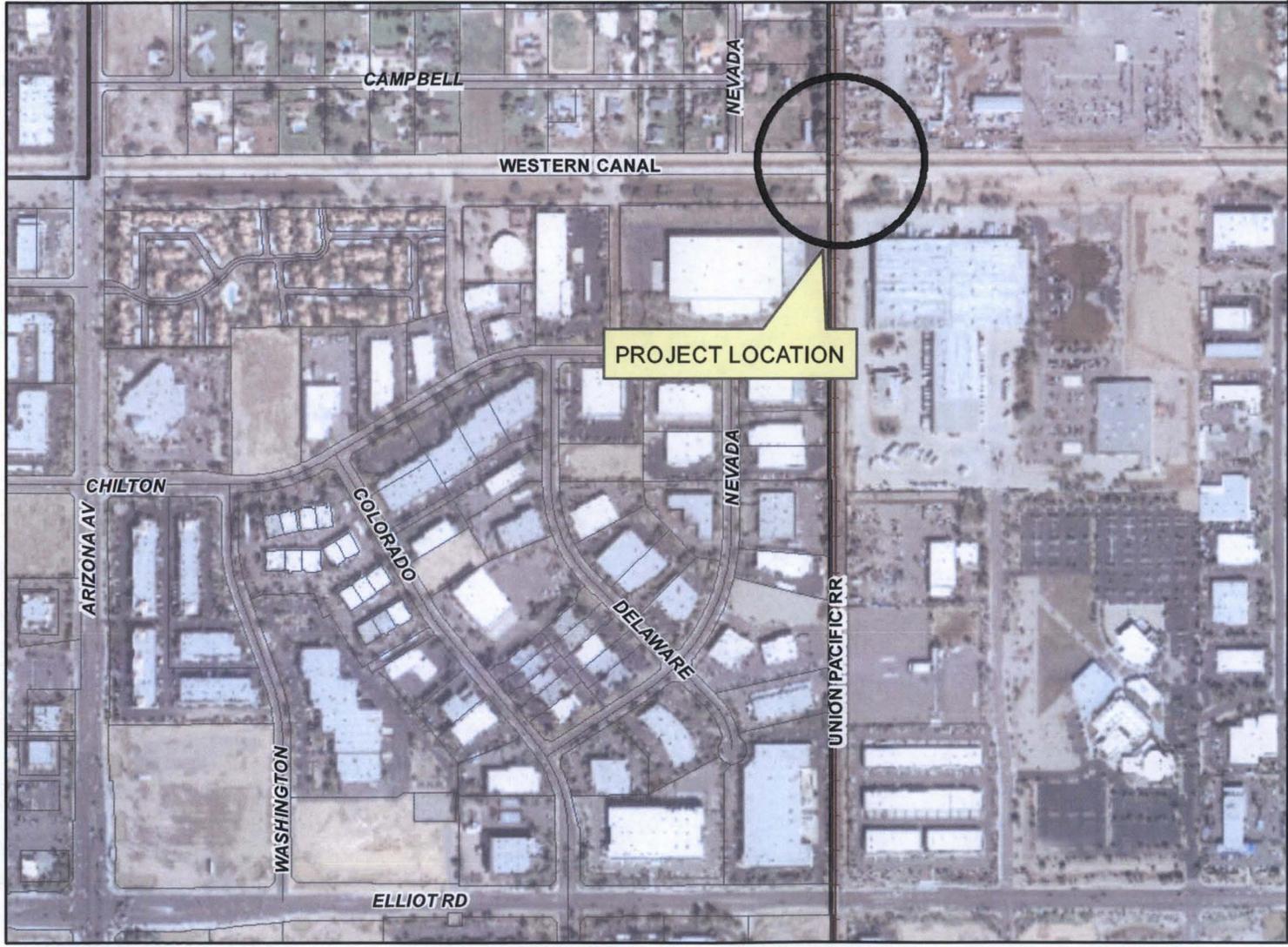
CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY GAB



WESTERN CANAL MULTI-USE PATH CROSSING AT UNION PACIFIC RAILROAD MEMO NO. TDA12-059





Round 19 2012

Western Canal Multi-Use Path Crossing at the UPRR

City of Chandler

Local Project Application

Specify MPO/COG Numerical Rank for this Project

APPLICATION SUBMITTAL REQUIREMENTS CHECKLIST

1. Cover Page
2. Applicant Information (1-8)
3. Project Description (10A - 13D)
4. Statement of Need
5. Authorized Official Signature
7. Cost Estimate Reviewer Signature
8. MPO/COG Signature
9. Cost Estimate Sheets (C1 - C4)
10. Appendix - Resolution
11. Appendix - State Map
12. Appendix - Vicinity Map
13. Appendix - Existing Location (Before) Photos
14. Appendix - Letters of Support - At Least One (1)
15. Appendix - Right-of-Way Ownership Documents

PROGRESS REPORT

Does the applicant have any active Transportation Enhancement (TE) projects?

Yes No

If yes, provide a status summary for each project in the text box below. Include milestones and scheduled construction date.

Is the application for a new phase of any previously awarded TE projects?

Yes No

If yes, provide a status summary for the phases in the text box below.

OR

Check off N/A below, if neither of the above applies.

Word Count Maximum: 250 (1875 characters)

N/A

**TRANSPORTATION ENHANCEMENT APPLICATION
APPLICANT INFORMATION**

1. Applicant and Sponsor	City of Chandler
2. MPO / COG	Maricopa Association of Governments (MAG)
3. Date	Dec 15, 2011
4. Project Name and Limits Word Count Maximum: 50 (375 characters)	Western Canal Multi-Use Path Crossing at the UPRR South side Western Canal, 1/2 mile east of Arizona Avenue
5. Contact Person - Name and Title	Paul Young, Senior Engineer
Mailing Address	Transportation & Development Department Mail Stop 105 P.O. Box 4008
City / Town	Chandler
Zip Code	85244-4008
Phone Number	480-782-3146
Fax Number	480-782-3075
Email Address	paul.young@chandleraz.gov

APPLICANT INFORMATION
Continued from previous page

6. County	<input type="text" value="Maricopa"/>
7. Congressional District	<input type="text" value="6th District"/>
8. Alternate Contact Person - Name and Title	<input type="text" value="Mike Mah, City Transportation Engineer"/>
Mailing Address	<input type="text" value="Transportation & Development Department
Mail Stop 402
P.O. Box 4008"/>
Phone Number	<input type="text" value="480-782-3470"/>
Fax Number	<input type="text" value="480-782-3415"/>
Email Address	<input type="text" value="mike.mah@chandleraz.gov"/>

PROJECT ACTIVITY CATEGORY

9. **Indicate the primary activity for the proposal with the number 1 (one). If applicable, indicate a secondary category with the number 2 (two). Select no more than 2 (two) activities applicable to the proposal. The proposal will be evaluated based on the primary activity.**

(1)	<input checked="" type="checkbox"/>	1	PROVISION OF FACILITIES FOR PEDESTRIANS AND BICYCLES
(2)	<input type="checkbox"/>		PROVISION OF SAFETY AND EDUCATIONAL ACTIVITIES FOR PEDESTRIANS AND BICYCLISTS
(3)	<input type="checkbox"/>		ACQUISITION OF SCENIC EASEMENTS OR HISTORIC SITES
(4)	<input checked="" type="checkbox"/>	2	SCENIC OR HISTORIC HIGHWAY PROGRAMS (INCLUDING THE PROVISION OF TOURIST AND WELCOME CENTER FACILITIES)
(5)	<input type="checkbox"/>		LANDSCAPING AND OTHER SCENIC BEAUTIFICATION
(6)	<input type="checkbox"/>		HISTORIC PRESERVATION
(7)	<input type="checkbox"/>		REHABILITATION OF HISTORIC TRANSPORTATION BUILDINGS, STRUCTURES, OR FACILITIES (INCLUDING HISTORIC RAILROAD FACILITIES AND BRIDGES)
(8)	<input type="checkbox"/>		PRESERVATION OF ABANDONED RAILWAY CORRIDORS (INCLUDING THE CONVERSION AND USE THEREOF FOR PEDESTRIAN OR BICYCLE TRAILS)
(9)	<input type="checkbox"/>		CONTROL AND REMOVAL OF OUTDOOR ADVERTISING
(10)	<input type="checkbox"/>		ARCHEOLOGICAL PLANNING AND RESEARCH
(11)	<input type="checkbox"/>		ENVIRONMENTAL MITIGATION TO ADDRESS WATER POLLUTION DUE TO HIGHWAY RUNOFF OR REDUCE VEHICLE-CAUSED WILDLIFE MORTALITY WHILE MAINTAINING HABITAT CONNECTIVITY
(12)	<input type="checkbox"/>		ESTABLISHMENT OF TRANSPORTATION MUSEUMS

PROJECT DESCRIPTION

- 10. A. Provide Project Specifications: List all key elements of the project scope. Include the following: project concept, length, mileposts, number of acres, functional classification, and any additional pertinent information. Example: Construct 0.5 mile of 10 foot-wide asphalt multi-use pathway along the north side of X Road.**
 Word Count Maximum: 200 (1500 characters)

Currently, the City of Chandler has an existing concrete multi-use path along the south side of the Western Canal from Price Road to the Union Pacific Railroad (UPRR) (0.5 mile east of Arizona Avenue). The City has a license agreement with SRP for the path use. The path terminates into a gravel maintenance road on the west side of the UPRR right-of-way. Within the UPRR R/W, the crossing consists of wooden planks with stop sign control for the use of SRP maintenance vehicles. On the east side of the UPRR R/W, there is an existing concrete path that continues east within Town of Gilbert jurisdiction.

The project scope consists of constructing approximately 250-feet of 10-foot wide concrete multi-use path plus railroad at-grade crossing improvements. Improvements will provide a connection between City of Chandler's and Town of Gilbert's existing concrete multi-use pathways. At grade crossing improvements at the railroad are proposed to include automatic flashing light signals with gates plus concrete panels.

The path is a part of the Maricopa County Regional Bicycle Trail System. The proposed project fills in a gap within the existing system.

- 10. B. What major construction, design, and right-of-way (ROW) work does the project entail? Describe any need for major land modification, retaining walls, etc. Be sure to include all related expenses in the cost estimate budget.**
 Word Count Maximum: 100 (750 characters)

At this time, ownership is not certain at the crossing. Either SRP or UPRR is the underlying property owner. The City will need to research property rights and obtain approvals from SRP and UPRR to connect the path.

PROJECT DESCRIPTION
Continued from previous page

11. A. Where is the project located?

- Describe actual physical location
- Attach state and vicinity map in appendix
- For State projects, include the route and beginning and ending mileposts

Word Count Maximum: 100 (750 characters)

The project is located at the Western Canal/UPRR crossing (approximately 0.5 mile east of Arizona Avenue, 0.5 mile north of Elliot Road). See attached vicinity map.

11. B. Who owns the ROW of the proposed project? Provide proof or ROW ownership in Appendix. (Not Applicable for Activities 2 and 10 only)

Either Salt River Project or Union Pacific Railroad owns the project area. Currently the City is investigating ownership.

Are any private landowners involved? Yes No N/A

If the project is on ADOT ROW, what percent of the project area is on ADOT ROW? (Percentage is determined by the ADOT District Engineer) %

If this is a rail corridor project, is the corridor "rail banked"? Yes No

If yes, provide status: N/A (not a rail corridor project)

Word Count Maximum: 50 (375 characters)

Private ownership is by SRP and UPRR. The project area is located in Maricopa County jurisdiction. After project completion, the path area will be annexed into the City of Chandler according to the existing Town of Gilbert boundary agreement.

Is the abandonment authorized by or proceeding before the Interstate Rail Commission? Yes No

If yes, provide status: N/A (not a rail corridor project)

Word Count Maximum: 50 (375 characters)

PROJECT DESCRIPTION
Continued from previous page

11. C. **Are there any drainage issues to consider?** Yes No
Describe any potential impacts to Waters of the U.S.:
Word Count Maximum: 100 (750 characters)

11. D. **Are there any utility relocations? If yes, specify:** Yes No
Word Count Maximum: 50 (375 characters)

No relocations will be necessary. The proposed improvements are located near SRP electric overhead transmission facilities. Additionally, there may be El Paso natural gas underground facilities within the project area. Utility clearances will be required.

- E. **What is the proposed time frame for completion of the project? Note: Project must be advertised for construction prior to July 2016.** Word Count Maximum: 50 (375 characters)

Construction completion July 2015. This includes coordination time and negotiation with SRP and UPRR.

- F. **Will the project be ADA accessible? If no, explain why not:** Yes No
Word Count Maximum: 50 (375 characters)

12. A. **Identify the organization(s) responsible for on-going maintenance and repairs of the TE project.** Word Count Maximum: 50 (375 characters)

The City of Chandler and Town of Gilbert will maintain the multi-use path in their respective jurisdictions. UPRR will maintain the track and signals.

12. B. **Describe the proposed on-going maintenance and repair program.**
Word Count Maximum: 50 (375 characters)

The City of Chandler and Town of Gilbert will sweep the multi-use path at regular intervals.

PROJECT DESCRIPTION
Continued from previous page

- 12. C. Identify the source of funds for on-going maintenance and repairs.**
Word Count Maximum: 50 (375 characters)

City of Chandler General Fund

- 13. A. To ascertain any potential Historic Preservation issues in order to avoid potential problems during the review process, the applicant is encouraged to consult with the State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO) during preliminary review of the application.**
Has the SHPO or THPO reviewed and commented on the proposed project?

Yes No

- 13. B. If yes, provide the date and name of the SHPO or THPO contact.**

- 13. C. Indicate the result of the preliminary SHPO or THPO review:**
Word Count Maximum: 100 (750 characters)

- 13. D. If no, why wasn't the SHPO or THPO contacted?**
Word Count Maximum: 100 (750 characters)

SHPO will be contacted in January 2012.

STATEMENT OF NEED

14. A. Is the project on a:

Planned transportation corridor? Yes No

 If yes, estimated completion date?

Corridor under construction? Yes No

 If yes, scheduled completion date?

Existing transportation corridor? Yes No

14. B. Describe how the community was or will be involved in this project.

Word Count Maximum: 200 (1500 characters)

Currently, there is an existing multi-use concrete path (bicycle, pedestrians) in the area that serves the general public. Connecting the path and upgrading the railroad crossing will increase public safety and provide a public enhancement. Community participation during the project will be encouraged through public meetings.

STATEMENT OF NEED
Continued from previous page

15. Describe how the project is an enhancement.

Word Count Maximum: 250 (1875 characters)

This project qualifies under "Activity 1, Provision of Facilities for Pedestrians and Bicycles" in the TE Program. As described in Item 10, the Western Canal multi-use concrete path terminates on both sides of the existing railroad crossing. This project will provide pedestrian/bicycle link between the City of Chandler's and Town of Gilbert's paths at the crossing via a concrete path with flashing light signals/gates. It fills in a gap within the Maricopa County Bicycle Trail Regional System.

APPROVAL BY SPONSOR

16. Approval of Authorized Official (Sponsor)

This project has the concurrence of the sponsoring agency, is consistent with the agency's plans and meets all of the basic criteria required by the State of Arizona's Transportation Enhancement Program as described in this application. State applications must be signed by the appropriate ADOT District Engineer.

Sponsor Representative
Name and Title

H. Paul Young, PE, PTOE, Senior Engineer

Signature



Date Signed

Dec 15, 2011

For State Project Applications

ADOT District Engineer
Name and Title

Signature

Date Signed

17. Local Project Applications must have endorsement of the Metropolitan Planning Organization (MPO) or Council of Government (COG), unless it is a Statewide Application (project involves multiple locations throughout the state).

MPO or COG

Maricopa Association of Governments (MAG)

Name and Title

Signature

Date Signed

APPROVAL BY SPONSOR
Continued from previous page

18. Cost Estimate Review for both State and Local Projects

The project cost estimate included in this application has been reviewed by:

Organization

City of Chandler

Name and Title

H. Paul Young, PE, PTOE, Senior Engineer

Signature



Date Signed

Dec 15, 2011

**ARIZONA TRANSPORTATION ENHANCEMENT PROGRAM
ROUND 19 (2012) COST ESTIMATE**

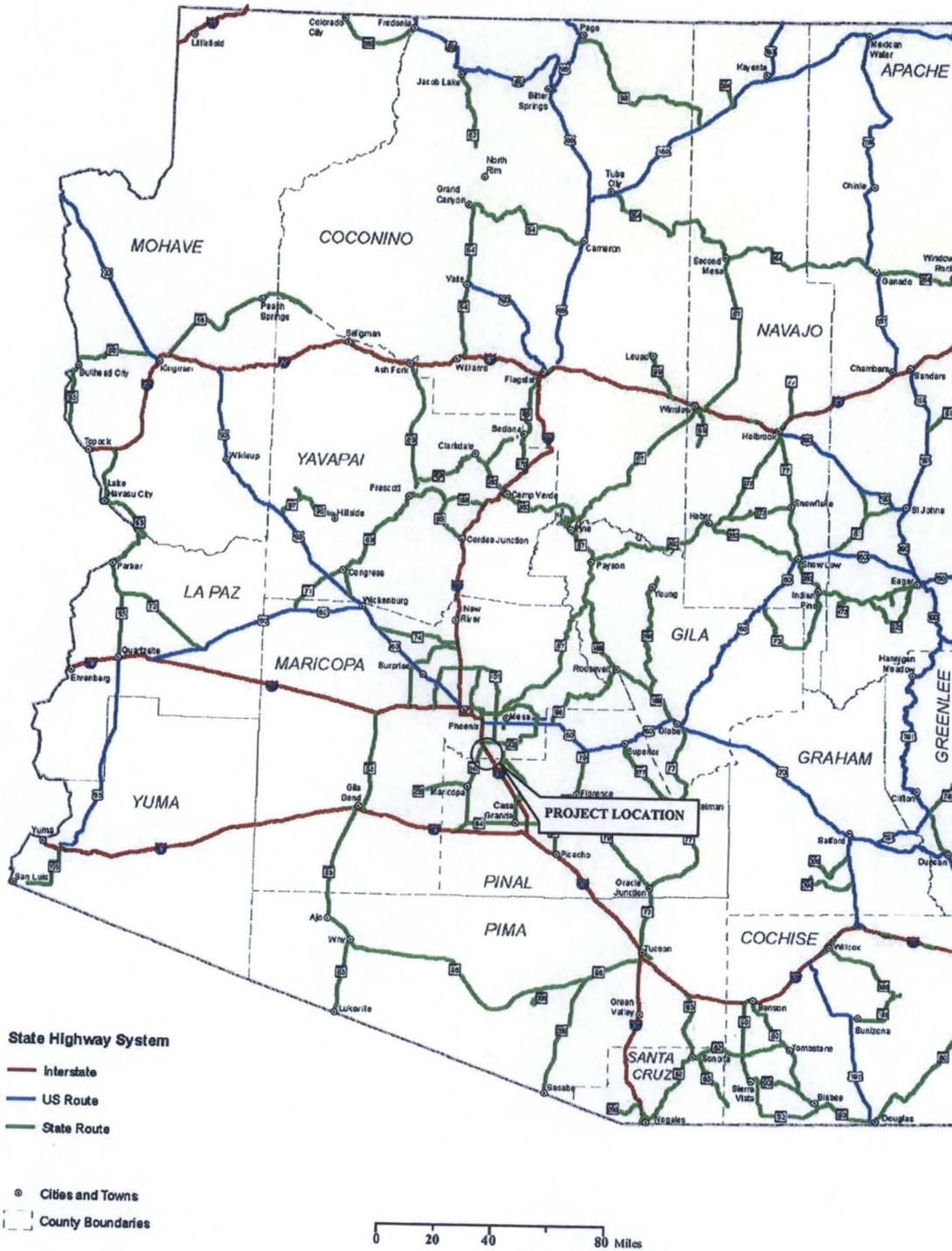
ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	LOCAL FUNDS
A. SCOPING (15% Preliminary Engineering Design) (Non-infrastructure projects: Only #2 applies).						
1. SITE TOPOGRAPHIC SURVEY	LS	1	\$5,000.00	\$5,000.00	\$4,715.00	\$285.00
2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$10,000.00	\$10,000.00	\$9,430.00	\$570.00
3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$20,000.00	\$20,000.00	\$18,860.00	\$1,140.00
4. HAZMAT ASSESSMENT	LS	1	\$5,000.00	\$5,000.00	\$4,715.00	\$285.00
SUBTOTAL – PROJECT SCOPING COSTS				\$ 40,000	\$37,720	\$2,280
B. FINAL PRELIMINARY ENGINEERING DESIGN - Stages II, III, IV and PS&E (Not applicable to non-infrastructure projects)						
1. Right-of-Way Acquisition	LS	1	\$5,000.00	\$5,000.00	\$4,715.00	\$285.00
2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$50,000.00	\$50,000.00	\$47,150.00	\$2,850.00
3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$2,500.00	\$2,500.00	\$2,357.50	\$142.50
4. DRAINAGE REPORT	LS	1	\$2,500.00	\$2,500.00	\$2,357.50	\$142.50
5. SWPPP	LS	1	\$1,500.00	\$1,500.00	\$1,414.50	\$85.50
SUBTOTAL – PROJECT DESIGN COSTS				\$ 56,500	\$53,280	\$3,221
C. CONSTRUCTION OR IMPLEMENTATION <i>For non-infrastructure projects (no ground disturbing activities), address only parts 4, D and F.</i>						
1. HARDSCAPE CONSTRUCTION						
INSTALLATION OF SWPP MEASURES	LS	1	\$5,000.00	\$5,000.00	\$4,715.00	\$285.00
SITE PREPARATION	LS	1	\$10,000.00	\$10,000.00	\$9,430.00	\$570.00
DEMOLITION						
Sawcut	LF	50	\$5.00	\$250.00	\$235.75	\$14.25

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	LOCAL FUNDS
Remove Structures and Obstructions	LS	1	\$5,000.00	\$5,000.00	\$4,715.00	\$285.00
Remove Fencing	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
Remove Structural Concrete	CY	0	\$0.00	\$0.00	\$0.00	\$0.00
Remove Asphaltic Concrete Pavement		0	\$0.00	\$0.00	\$0.00	\$0.00
Remove Concrete Sidewalks, Slabs		0	\$0.00	\$0.00	\$0.00	\$0.00
HAZMAT ABATEMENT	LS	1	\$0.00	\$0.00	\$0.00	\$0.00
UTILITY RELOCATION	LS	1	\$0.00	\$0.00	\$0.00	\$0.00
RETAINING WALL Reinforced concrete cantilevered	SF		\$0.00	\$0.00	\$0.00	\$0.00
EARTHWORK						
General Excavation	CY	1,000	\$5.00	\$5,000.00	\$4,715.00	\$285.00
Drainage Excavation				\$0.00	\$0.00	\$0.00
Structural Excavation				\$0.00	\$0.00	\$0.00
Structural Backfill				\$0.00	\$0.00	\$0.00
Borrow (In Place)				\$0.00	\$0.00	\$0.00
CURB & GUTTER	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
AGGREGATE BASE	CY	300	\$35.00	\$10,500.00	\$9,901.50	\$598.50
PATHWAY OR SIDEWALK MATERIALS						
Concrete	SF	3,000	\$5.00	\$15,000.00	\$14,145.00	\$855.00
Colored Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Color Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Precast Concrete Pavers		0	\$0.00	\$0.00	\$0.00	\$0.00
Asphaltic Concrete	Ton	0	\$0.00	\$0.00	\$0.00	\$0.00
Polymer or Resin Stabilized Surface	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
CROSSWALK ENHANCEMENT						
Concrete Pavers	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Asphalt		0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Integral Color Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
PEDESTRIAN ADA RAMP	SF	50	\$10.00	\$500.00	\$471.50	\$28.50
CULVERT EXTENSIONS	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
PEDESTRIAN LIGHTING Including conduit and trenching	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
HANDRAIL						
Standard	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
Decorative		0	\$0.00	\$0.00	\$0.00	\$0.00

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	LOCAL FUNDS
SUBTOTAL - HARDSCAPE CONSTRUCTION				\$ 51,250	\$48,329	\$2,921
2. LANDSCAPING & IRRIGATION ITEMS						
TREES above 15 gallon in size as required per Local code or special design requirements	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TREES (15 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TREES (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SHRUBS (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SHRUBS (1 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
CACTUS (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
MULCH						
Decomposed Granite	SY	2,500	\$5.00	\$12,500.00	\$11,787.50	\$712.50
Organic		0	\$0.00	\$0.00	\$0.00	\$0.00
TOPSOIL	CY	0	\$0.00	\$0.00	\$0.00	\$0.00
SEEDING	Acre	0	\$0.00	\$0.00	\$0.00	\$0.00
TURF SOD	SY	0	\$0.00	\$0.00	\$0.00	\$0.00
BOULDERS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
IRRIGATION SYSTEM						
Drip	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
Turf		0	\$0.00	\$0.00	\$0.00	\$0.00
SLEEVING FOR IRRIGATION SYSTEM						
Directional Bore	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
Cut and Patch		0	\$0.00	\$0.00	\$0.00	\$0.00
LANDSCAPE HEADER CURB	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
LANDSCAPE ESTABLISHMENT	LS	0	\$0.00	\$0.00	\$0.00	\$0.00
SUBTOTAL - LANDSCAPING & IRRIGATION ITEMS				\$ 12,500	\$11,788	\$713
3. SITE FURNISHINGS						
BENCHES	Each	2	\$1,500.00	\$3,000.00	\$2,829.00	\$171.00
SEATWALLS	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
BIKE RACKS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TRASH RECEPTACLES	Each	2	\$500.00	\$1,000.00	\$943.00	\$57.00
DRINKING FOUNTAINS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SIGNAGE (Standard Traffic Control)	Each	4	\$150.00	\$600.00	\$565.80	\$34.20
TREE GRATES	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SUBTOTAL - SITE FURNISHINGS				\$ 4,600	\$4,338	\$262
4. OTHER CONSTRUCTION ITEMS. ALSO, ITEMIZED LINE ITEMS FOR NON-INFRASTRUCTURE PROJECTS. (Insert additional rows if necessary)						

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	LOCAL FUNDS
Concrete planks, automatic flashing warning lights, gates	LS	1	\$250,000.00	\$250,000.00	\$235,750.00	\$14,250.00
Historic monument signage	LS	1	\$7,500.00	\$7,500.00	\$7,072.50	\$427.50
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS				\$ 257,500	\$242,823	\$14,678
5. MOBILIZATION AND ADMINISTRATION COSTS						
CONTRACTOR MOBILIZATION	LS	1	\$10,000.00	\$10,000.00	\$9,430.00	\$570.00
TRAFFIC CONTROL	LS	1	\$2,500.00	\$2,500.00	\$2,357.50	\$142.50
CONSTRUCTION SURVEY & LAYOUT	LS	1	\$2,500.00	\$2,500.00	\$2,357.50	\$142.50
CONSTRUCTION CONTINGENCIES		5%	\$ 257,500	\$12,875.00	\$12,141.13	\$733.88
CONSTRUCTION ADMINISTRATION		12%	\$ 257,500	\$30,900.00	\$29,138.70	\$1,761.30
SUBTOTAL - MOBILIZATION & ADMINISTRATION COSTS				\$ 58,775	\$55,424.83	\$3,350.18
TOTAL CONSTRUCTION OR IMPLEMENTATION COST				\$ 384,625	\$362,701.38	\$21,923.63
D. ADOT Fee for PE Reviews and Staff Charges	LS	1	\$5,000.00	\$5,000.00	NO ENTRY	
E. TOTAL PROJECT COST (All subtotals + ADOT local projects review fee)				\$ 486,125	NO ENTRY	
F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS						
TOTAL COST FOR PROJECT DEVELOPMENT OR IMPLEMENTATION (Exclusive of ADOT Fee)					BOX A	\$ 481,125
TOTAL FEDERAL FUNDS @ 94.3% (.943 x amount shown in Box A above). Note: For Local projects, the maximum amount that can be requested is \$750,000 (\$943,000 for State projects). If the amount automatically calculated by this program exceeds the maximum amount allowed for a State or Local project, manually input the maximum allowed amount of federal funds.					BOX B	\$ 453,701
TOTAL SPONSOR MATCHING FUNDS (.057 x cost shown in Box A above). Note: The maximum amount that should be shown on this line is \$45,334 for Local projects (\$57,000 for State projects). If the amount automatically calculated by this program exceeds the appropriate amount for a State or Local project, manually input the appropriate amount.					BOX C	\$ 27,424
TOTAL ADDITIONAL FUNDS (Amount in Box A in excess, if any, of \$795,334 for Local projects or \$1,000,000 for State projects)					BOX D	\$ -
TOTAL NON-FEDERAL FUNDS (Sum of Box C and Box D)					BOX E	\$ 27,424

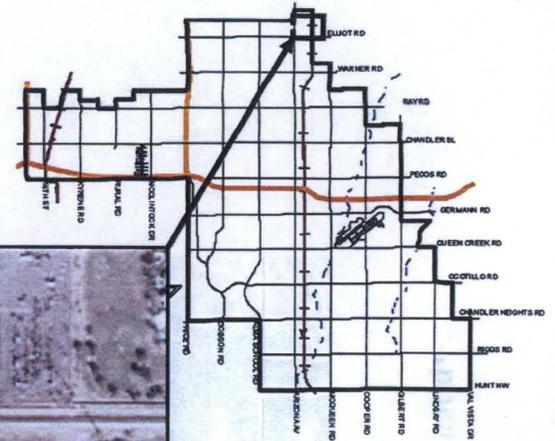
PROJECT NAME: WESTERN CANAL/UPRR MULTI-USE
PATH CROSSING



STATE LOCATION MAP



WESTERN CANAL/UPRR MULTI-USE PATH CROSSING VICINITY MAP



Appendix-Existing Location (Before) Photos (continued)

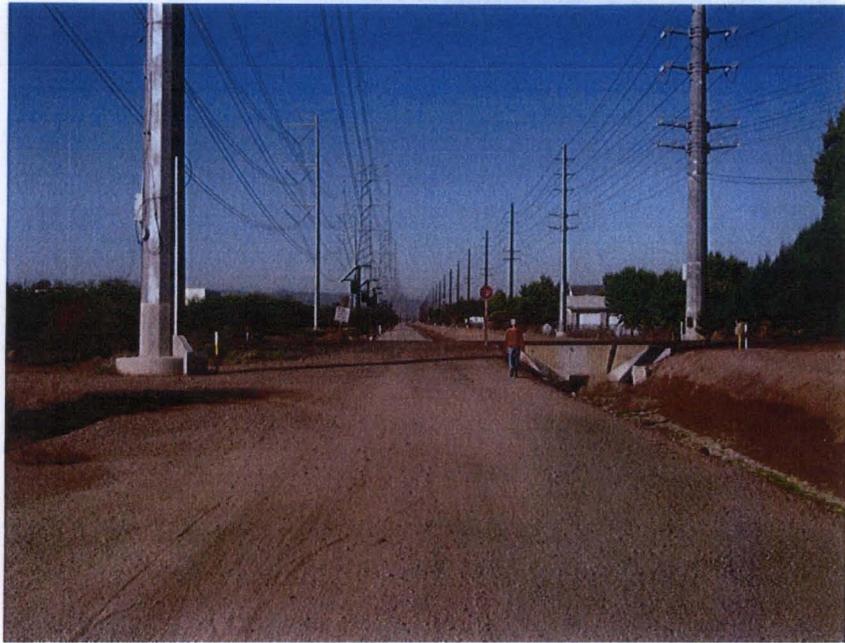


Photo 3-View looking west (Town of Gilbert side)

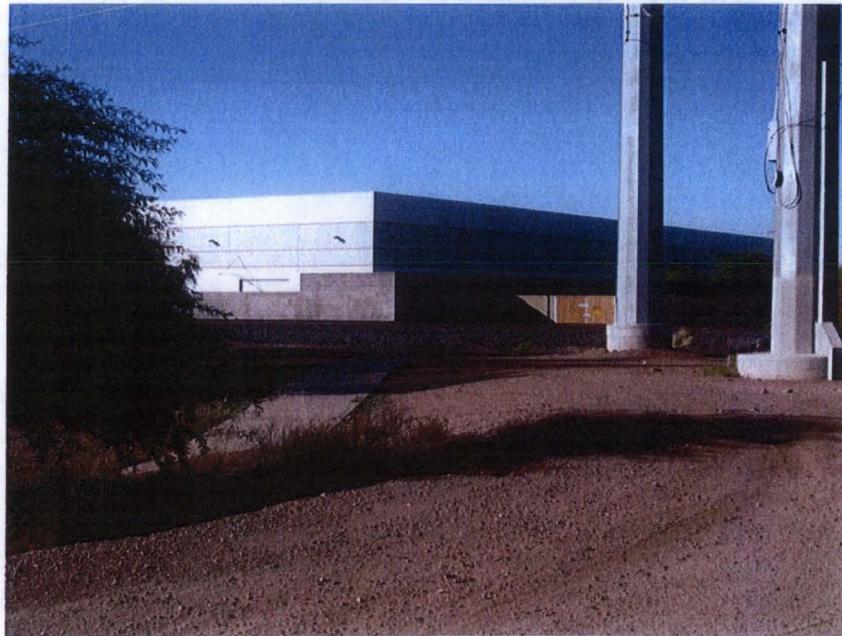


Photo 4-Existing Town of Gilbert path termination (looking east)