APPENDIX A

LAND AND WATER USE STUDY

LAND AND WATER USE STUDY 7TH STREET AND ARIZONA AVENUE WQARF SITE REMEDIAL INVESTIGATION TUCSON, ARIZONA

March 21, 2014

Prepared for:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY SOUTHERN REGIONAL OFFICE Superfund/Water Quality Assurance Revolving Fund (WQARF) 400 W. Congress, Suite 433 Tucson, Arizona 85701

Prepared by:

HYDRO GEO CHEM, INC. 51 W. Wetmore Road, Suite 101 Tucson, Arizona 85705

Project Number 2012016.00-02.2

HYDRO GEO CHEM, INC. Environmental Science & Technology H

TABLE OF CONTENTS

1.	INTRODUCTION			
	1.1	Overview	1	
	1.2	Land and Water Use		
	1.3	Site Background	2	
	1.4	Hydrogeology		
	1.5	Soil and Groundwater Impacts		
2.	LAND	O AND WATER USE EVALUATION	5	
	2.1	Current Study Area Land Use	5	
		2.1.1 Former Oliver's Cleaners Property		
		2.1.2 City of Tucson		
		2.1.3 Union Pacific Railroad	8	
		2.1.4 Pima County	8	
	2.2	Future Study Area Land Use	8	
		2.2.1 Former Oliver's Cleaners Property		
		2.2.2 City of Tucson		
		2.2.3 Union Pacific Railroad		
		2.2.4 Pima County	9	
	2.3	Current Study Area Water Use		
	2.4	Future Study Area Water Use		
3.	SUMN	MARY	. 13	
4.	REFE	RENCES	. 15	

FIGURES

A.1	Land Use Study	Area and C	City of Tucson	Zoning
-----	----------------	------------	----------------	--------

- A.2 City of Tucson Zoning Within the Projected PCE Plume
- A.3 City of Tucson, UPRR and Arizona State Parcels
- A.4 City of Tucson Neighborhood Associations and Historic Districts
- A.5 Existing and Abandoned Wells

APPENDICES

- A.1 Land Use Request for Information and Responses
- A.2 Tucson Modern Streetcar Project
- A.3 Downtown Links Roadway and Drainage Project
- A.4 Downtown Infrastructure Plan, University Area Plan, and West University Plan

1. INTRODUCTION

This Land and Water Use Study (Study) has been prepared to gather information regarding the current and reasonably foreseeable future uses of land and water that have been or could be impacted by the contaminant release at the 7th Street and Arizona Avenue Water Quality Assurance Revolving Fund (WQARF) site (Site) in Tucson, Arizona (Figure 1). The Study is required as part of the Remedial Investigation (RI) process, pursuant to Arizona Administrative Code (AAC) R18-16-406(D). It will be used to assess the potential for exposure to Site-related contaminants during completion of the Risk Assessment and is being conducted for Arizona Department of Environmental Quality (ADEQ) under ADEQ Task Assignment 12-011179.

1.1 Overview

This Study has been prepared to gather information regarding the current and reasonably foreseeable future uses of land and water that have been or could be impacted by the contaminant releases at the Site. Groundwater beneath the Site is found in a shallow perched unit and in the deeper regional aquifer. Hydrogeologic information at the Site indicates that the perched groundwater and regional aquifer are not hydraulically connected. Only the regional aquifer is used as a drinking water source, but no drinking water wells are within the Study area. Other than groundwater monitoring wells, no wells are located in the perched groundwater and there may be up to three existing unused wells in the regional aquifer. Contamination is found only in the soils and perched groundwater at the Site.

1.2 Land and Water Use

This Study includes information regarding current and reasonably foreseeable uses of land and water impacted or threatened to be impacted by the contaminant releases at the Site. General land use information includes the current type of use, density, character, and governmental jurisdictions. Water use information includes the types of groundwater uses and wells. There are no surface water uses. Future land and water use changes may be considered using population projections, growth, plans for future development and local land and water use plans. Current and reasonably foreseeable land use information has been collected, in part, through request-for-information letters and questionnaires sent to the City of Tucson (COT) and the current owner of the former Oliver's Cleaners property on December 3, 2012 (Appendix A.1). The questionnaire includes specific uses and ownership for properties impacted by the release. Water use information was obtained directly from the COT Water Department and from the owner of a property where a regional aquifer well drilled in 1925 is located. There are no private wells

completed in the perched groundwater within the Study area. The following are included in this Study:

- Figures showing the locations of the affected parcels and their COT zoning.
- Responses to questionnaires submitted to and collected from COT and the current owner of the former Oliver's Cleaners property regarding current and reasonably foreseeable uses of land.
- A copy and brief discussion of municipal land use plans and any future proposed land use plans for parcels.
- A summary of discussions with the COT Water Department on current and planned groundwater uses.

This Study will be used to help formulate Remedial Objectives (ROs). Data evaluation for the risk assessment will consider current land use zoning.

1.3 Site Background

The Site is located in the east-central portion of Section 12, Township 14 South, Range 13 East in downtown Tucson, Arizona (Figure 1). The perched groundwater and vadose zone beneath the site has been affected by volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), trichloroethene (TCE) and cis-1,2-dichloroethene (cis-DCE). Concentrations in perched groundwater exceed Arizona Aquifer Water Quality Standards (AWQS) and concentrations in shallow soil vapor evaluated for potential vapor intrusion exceed U.S. EPA regional screening levels (RSLs) for ambient air. The Study area encompasses an area of approximately 195 acres (see Figure A.1).

A building was constructed at the Unit Laundry (a.k.a. Oliver's Cleaners) facility site as early as 1928, and dry cleaning may have been performed on the property as early as 1935, although land use for that time cannot be verified. A water supply well was drilled on the property in 1931. Unit Laundry was renamed Oliver's Laundry and Dry Cleaners Co. (Oliver's Cleaners) around 1956. Records indicate that dry cleaning was then performed continuously on the property from 1957 until the Oliver's Cleaners facility was destroyed by a fire in 1989. Seven underground storage tanks (USTs) were removed from the property in 1991. These USTs included one 10,000-gallon and four 1,000-gallon solvent tanks and two 500-gallon heating oil tanks. As part of the Park Euclid WQARF site investigations the water supply well was abandoned by the owner of the Oliver's Cleaners property in December 1996 due to concerns that it could be a potential conduit for contamination to the regional aquifer.

Environmental investigations at the former Oliver's Cleaners property were initiated by ADEQ pursuant to UST regulations. The Site was placed on the WQARF Registry in April 2000 with an eligibility and evaluation score of 40 out of a possible 120. The RI/FS Work Plan (HGC, 2013) summarizes groundwater, soil and soil vapor investigations and results from 1992 through 2013; Section 1.5 summarizes the most recent groundwater and soil vapor monitoring results.

1.4 Hydrogeology

There are two aquifers beneath the Site: perched groundwater encountered at around 85 feet (ft) below ground surface (bgs) and the regional aquifer beginning at about 170 ft bgs. A clay layer acts as an aquitard between the regional aquifer and perched groundwater. As described in the RI Report, perched groundwater flows in a northwesterly direction at an average gradient (January 2013) of 0.0028 foot/foot (ft/ft) in the southern portion of the Site and 0.0064 ft/ft in the northern portion of the Site. Groundwater in the regional aquifer generally flows in a north to northwest trending direction, and exits the Tucson basin at the Rillito narrows (Davidson, 1973).

The regional aquifer is a primary source of drinking water for Tucson and surrounding areas. Pumping of the regional aquifer within the upper Santa Cruz sub-basin has resulted in a decrease in groundwater levels of 80 to 100 feet in the vicinity of the Site since the 1920s; however, groundwater levels have been rising over the past decade or so within the Tucson basin due to decreased groundwater pumping.

1.5 Soil and Groundwater Impacts

Based upon data collected during the ERA, contamination occurs in soil vapor and groundwater within: 1) the vadose zone above perched groundwater and 2) the perched groundwater. Contamination is not evident within the regional aquifer.

Although perched groundwater is not considered a drinking water source for this Site, contaminant concentrations within perched groundwater will affect soil vapor concentrations and therefore must be considered. Furthermore, a large body of light non-aqueous phase liquid (LNAPL) consisting of petroleum hydrocarbons (diesel) floating on the perched groundwater table, associated with releases from the Union Pacific Railroad (UPRR) passenger depot located approximately 1,000 feet to the south of the Site, exists at the southern, upgradient fringe of the PCE solute plume. Chlorinated VOC contamination within this LNAPL is a continuing source to both the perched groundwater and soil vapor.

The parcels within the Study area potentially most affected by VOC contamination are positioned over the highest concentrations of VOCs in soil vapor. The highest concentrations of

VOCs in soil vapor are found beneath the former Oliver's Cleaners property. VOC contamination in the perched groundwater extends from just north of 8th Street, near the upgradient edge of the former Oliver's Cleaners property, approximately 4,500 ft northwest to near Speedway Boulevard.

2. LAND AND WATER USE EVALUATION

The following presents current and foreseeable land and water uses for the Study area. Reasonably foreseeable uses for land are those that are likely to occur. Reasonably foreseeable uses for water are those that are likely to occur within 100 years. COT provided projected future plans in its responses to the land use questionnaire (Appendix A.1). The COT Water Department and the owner of a property where an unused regional aquifer well exists provided information verbally on the current and foreseeable uses of groundwater.

2.1 Current Study Area Land Use

The Study area is presented in Figure A.1. The Study area was adjusted slightly from the area indicated in the request for land use information letters by including additional parcels along the western boundary based on integration of November soil vapor and groundwater sampling results to project the perched groundwater PCE plume. Land use within the Study area generally consists of a mix of commercial and residential properties.

Property development at the Site adheres to COT zoning regulations. Figure A.1 also presents COT zoning for parcels within the Study Area, which covers approximately 195 acres. The following COT zoning categories are representative of the Study Area:

- R-2 Medium density residential
- R-3 High density residential
- HR-2 Historic medium density residential
- HR-3 Historic high density residential
- C-1 Local commercial
- C-2 General commercial
- C-3 Intensive commercial
- HC-1 Historic local commercial
- HC-3 Historic intensive commercial
- HO-3 Historic office
- P Parking
- I-1 Light industrial

At the current time, approximately 34.3% of the land within the Study area is zoned for commercial use; 29.8% is zoned for residential use; 1.4% is vacant; 34.5% is roadways/right-of-ways for COT.

COT regional zoning within the November 2012 projected perched groundwater PCE plume boundary (defined as 5 micrograms per liter (μ g/L) PCE), covering approximately 100 acres, is shown in Figure A.2. Approximately 42.8% of the land within the WQARF area plume is zoned for commercial use; 37.4% is zoned for residential use; and the remaining 19.8% is roadways/right-of-ways for COT.

Figure A.3 identifies parcels owned by the COT, UPRR and State of Arizona. The current owner of the former Oliver's Cleaners property and COT were asked to provide information (Appendix A.1) regarding current and future land uses for the Study area, where land could be potentially impacted by contamination. The sections below summarize the information provided to ADEQ by the former Oliver's Cleaners property owner and by COT. In addition, Pima County and UPRR land use information is summarized below.

2.1.1 Former Oliver's Cleaners Property

The former Oliver's Cleaners property is a single parcel that is directly associated with the release of contaminants (see Section 1.3). The property, zoned as I-1, is a 40,000-square foot (ft^2) paved parking lot and is used for special events such as fairs, concerts, etc., in addition to everyday parking.

The surrounding parcels are predominantly commercial properties, with one mixed use property. Businesses in the immediate vicinity of the former Oliver's Cleaners property include:

- Downtown Auto Center and Towing, Inc., zoned commercial (I-1), and Instrument Development Corporation, zoned mixed use (commercial and residential), located directly to the south;
- Anjali Yoga and United Fire Equipment Company located directly across Herbert Avenue to the east;
- Ordinary Bicycle Shop and a currently unleased storefront located directly to the north;
- Twelve Tribes Reggae Shop (believed to be vacant) located directly to the west;
- Predominantly undeveloped land (formerly Yellow Cab) to the northwest;
- Commercial work spaces located to the northeast;
- Commercial storefronts located to the southeast; and

• The newly-constructed Tucson Modern Streetcar (Streetcar) maintenance facility to the southwest.

2.1.2 City of Tucson

In addition to all public roadways, COT owns seven parcels within the Study area. Current uses of COT municipal property include: traffic, washes, street railway, modern streetcar barn, storm drains, signs, ductwork, road construction storage and staging, fiber-optic cable and fencing. Washes include the Arroyo Chico, High School and West University Washes.

Study area residential properties are located within five neighborhoods (Figure A.4) within COT, all of which contain historic properties. The neighborhood associations that are partly within the Study area include: Pie Allen, Iron Horse, West University, Dunbar Spring and El Presidio. Current and pending historic districts are also designated on Figure A.4. Historic Districts within the Study area include: Iron Horse Expansion, Warehouse, West University and John Spring. Pending historic districts include 4th Avenue and Miracle Mile.

The Tucson Modern Streetcar (Streetcar) project is intended to connect the major activity centers of Downtown Tucson, the University of Arizona, 4th Avenue, and the Westside redevelopment district; create new jobs and promote economic development; and improve transit service in the area. Construction has been completed on Streetcar rail lines, which travel east-west on University Avenue and north-south on 4th Avenue through the Study area. A section of the Streetcar rail line loop runs west on 8th Street from 4th Avenue, then north and south on 5th Avenue in order to access the recently-built maintenance and storage facility on 8th Street. Appendix A.2 presents the Streetcar rail line and maintenance and storage facility locations.

The Downtown Links roadway and drainage project (Appendix A.3) will include a four-lane roadway north of the UPRR tracks that will connect Barraza-Aviation Parkway to 6th Street and to I-10, with additional bicycle and pedestrian connections. Drainage construction has been largely completed, and directly affected the Site by requiring the abandonment of four perched groundwater monitoring wells (MW-PD-2, MW-PD-14, MW-PD-17 and MW-PD-32), one regional aquifer monitoring well (MW-PD-19) and one nested vapor probe well (7AZP-8) at the end of 2011. The Downtown Links project is intended to improve access for vehicles, bicyclists and pedestrians and eliminate the hazardous at-grade railroad crossing located at 6th Street. Benefits of the project include: avoiding demolition of key historic buildings in the several historic districts, correcting Tucson Arroyo-related flooding and drainage problems, constructing an underpass for 6th Street at the railroad crossing and establishing a RR "no-whistle zone".

2.1.3 Union Pacific Railroad

Six UPRR parcels are located along the southern boundary of the Study area. UPRR land use includes an Amtrak Passenger Terminal, and passenger train and commercial cargo transportation along the UPRR tracks.

2.1.4 Pima County

Pima County does not own parcels within the Study area.

2.2 Future Study Area Land Use

Future land use within the Study area is anticipated to remain the same as it is currently, i.e., a mix of commercial and residential properties, with an increase in residential densities and commercial intensity.

2.2.1 Former Oliver's Cleaners Property

The current property owner intends to develop the former Oliver's Cleaners property as a multiple-story development with both commercial and residential use (see Appendix A.1). COT zoning for this parcel is currently commercial.

Commercial properties in the immediate vicinity of the former Oliver's Cleaners property are expected to remain commercial, but a change in zoning to mixed use residential/commercial, as occurred with one of the businesses to the south of the former Oliver's Cleaners property, is possible.

2.2.2 City of Tucson

COT's population was 525,796 in July 2011, per the U.S. Census Bureau. Tucson's population is expected to grow by more than 50 percent by the year 2050. Both residential and commercial densities are expected to increase in intensity.

Construction of the Streetcar project (Appendix A.2) has been completed. The Streetcar project is not expected to change land use, however it is anticipated to have a positive impact on local businesses and economic activity within the Study area.

The Downtown Links roadway and drainage project (Appendix A.3) is still under construction. Construction of the 6th Street segment of the project, including at-grade and below-grade sections

of roadway and a temporary railroad shoofly, was initiated in Fall 2013. Future Downtown Links work is not expected to change land use.

As of January 2, 2013, COT's development-related standards are contained in the Unified Development Code (UDC) and its supporting documents. The provisions of the UDC were established to protect and promote the general health, safety and welfare of all present and future residents of Tucson. In the near future, the UDC documents will replace the Land Use Code, Development Standards, and the development review procedures specified in Chapter 23A of the Tucson Code. The UDC can be found at:

http://cms3.tucsonaz.gov/files/planning/UDC_ADOPTED_100912.pdf.

Appendix A.4 includes a 1989 University Area Plan (UAP), a 2007 COT Downtown Infrastructure Plan (DIP) and a 2011 West University Neighborhood Plan (WUNP). The UAP and WUNP (Map 5) detail criteria for future development and land use for a portion of the Study area, mainly for maintaining historic character of the areas, encouraging residential in-fill development and discouraging changes in zoning that would alter existing residential land use. The DIP discusses future infrastructure improvements, as well as future land use for downtown Tucson; possible future downtown developments that affect the Study area presented in the DIP include the Streetcar and Downtown Links projects, mentioned previously, and associated infrastructure improvements and private development in the Warehouse District north of the Union Pacific rail line.

2.2.3 Union Pacific Railroad

A request for information was not made of UPRR for this Study; however, both passenger and commercial transportation are expected to continue in the future at the southern border of the Study area. Future changes in use of the UPRR parcels are not expected to significantly impact the Study area. Any future efforts by UPRR to remediate the LNAPL diesel body affecting the southern portion of the Study area could affect the Study area.

2.2.4 Pima County

A request for information was not made of PC for this Study. As there are no PC-owned parcels within the Study area, there are no future use changes.

2.3 Current Study Area Water Use

There are no current surface water uses in the Study area. As previously mentioned, there are several washes in the area, but they are ephemeral. They provide storm water runoff and have some value for wildlife habitat.

There are also no groundwater uses in the Study area. The regional aquifer is considered a drinking water source, although there are no municipal wells within the Study area. There are two, and possibly as many as three, unused regional aquifer wells, several abandoned regional aquifer wells, and four groundwater monitoring wells in the regional aquifer that are used only to monitor possible Site-related contaminants and groundwater elevations. The perched groundwater is not considered a drinking water source and there are no municipal or private domestic wells completed in the perched groundwater within the Study area. There are thirty monitoring wells currently used to monitor Site water quality and groundwater elevations within the perched groundwater. There are also a number of perched groundwater wells used by UPRR to monitor perched groundwater impacted by LNAPL (diesel fuel).

According to ADWR records, the Unit Laundry well (ADWR No. 55-700415) was drilled to a depth of 603 feet bgs in 1931; it was located slightly west of Arizona Avenue and just south of 7th Street (Figure A.5). Despite some discrepancies in the reported depths and casing diameters, it is believed that the old Unit Laundry well (No. 55-700415) was the same well as the former Oliver's Cleaners well (No. 55-613786). This well was abandoned in 1996 under the ADWR number 55-613786.

According to ADWR records, well No. 55-700412 was drilled to a depth of 670 feet bgs at Tucson Steam Laundry in 1936 (approximate location on 6th Street between Stone and 7th Avenues – Figure A.5). During the Park Euclid WQARF site investigations, the Steam Laundry well was abandoned in December of 1996 due to concerns that it could act as a potential conduit well for contamination into the regional aquifer (the well had been re-recorded under the ADWR number 55-801604 by that time).

ADWR records indicate the Mackey well was drilled to 151 feet bgs in 1915 in the approximate location indicated on Figure A.5. Ownership records indicate that the well was located somewhere on the property fronting 6th Street, however investigations of this property have not been successful in locating the well. A well was also recently discovered inside the warehouse adjoining the south side of Benjamin Plumbing Supply at the southeast corner of 6th Street and 7th Avenue (Figure A.5). The owner of Benjamin Plumbing Supply stated that they had tried to measure the depth of this well and it was only about 60 feet deep. Because of the ambiguity of the ADWR records for this well, it is very possible that the "Mackey" well is actually the well in

the Benjamin Plumbing Supply warehouse. Regardless of the actual location of this well, no abandonment records have been found, and it has no current water use.

The Home Ice and Fuel well (No. 55-700413) was drilled in 1925 to 660 feet bgs, according to ADWR records. This well is still in existence but is currently not in use. The wellhead is still apparent and located in the far northwest corner of a parking lot on 6th Street east of Stone Avenue (Figure A.5). This property is owned by the owner of Benjamin Plumbing Supply, although the owner did not know of the well's existence until it was pointed out by ADEQ staff. A large concrete dais, potentially previously used as a tank base, is also still visible. This well could potentially become a conduit for contamination in the perched groundwater to contaminate the regional aquifer and should be further investigated and properly abandoned, if necessary.

2.4 Future Study Area Water Use

Surface water uses within the Study area are not expected for the foreseeable future. There are no expected uses of the perched groundwater or regional aquifer because no new non-irrigation wells can legally be drilled into the perched or regional groundwater. Arizona Revised Statutes § 45-454(C) states that on or after January 1, 2006, drilling of a private well on land within 100 feet of the operating water distribution system of a municipal water provider within the boundaries of an Active Management Area (AMA) is prohibited. In addition, the COT Water Department has no plans to install municipal water supply wells in the Study area.

Appendix A: Land Use Study 7th Street and Arizona Avenue WQARF Site – Remedial Investigation H:\2012016.00 ADEQ 7AZ RIFS\Land Use Study\Report\7AZ Land Water Use Study Final Rpt 20140321.doc March 21, 2014

3. SUMMARY

The current and future land and water uses are summarized below for the former Oliver's Cleaners property and for COT. UPRR land use does not significantly affect the Study area. No Pima County parcels exist within the study area.

Current land use of the former Oliver's Cleaners property is as a parking lot. The current owner anticipates developing the property as a multiple-story residential/commercial building, likely with commercially-leased spaces or a parking lot at ground level and residential apartments for University of Arizona student housing above.

Businesses in the vicinity of the former Oliver's Cleaners property are predominantly commercial, with one mixed-use property to the south of the former Oliver's Cleaners property. Future use of these properties is expected to remain the same, with additional mixed-use possible. Construction of the Streetcar and Downtown Links project are not expected to have an impact on the Study area. Increased density of development and change of zoning from commercial to residential or mixed-use is likely.

There are no current uses for surface water or groundwater within the Study area. Drilling of domestic wells is prohibited, and COT has no current or future plans to develop groundwater within the Study area. Evaluation of the condition of the Home Ice and Fuel well (No. 55-700413) is recommended, as is abandonment of the well, if necessary, to prevent the possibility of providing a conduit for contamination to the regional aquifer.

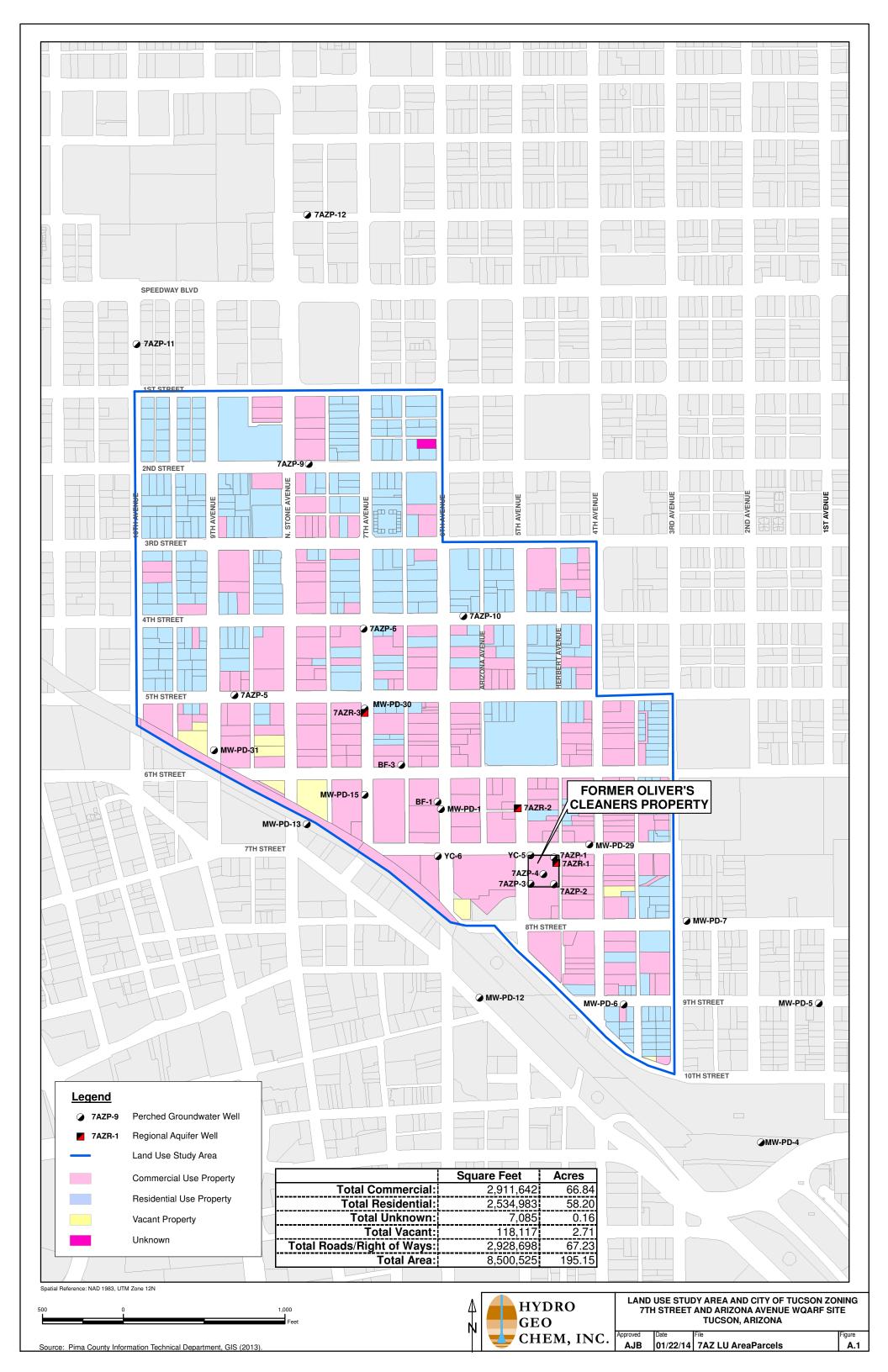
Appendix A: Land Use Study 7th Street and Arizona Avenue WQARF Site – Remedial Investigation H:\2012016.00 ADEQ 7AZ RIFS\Land Use Study\Report\7AZ Land Water Use Study Final Rpt 20140321.doc March 21, 2014

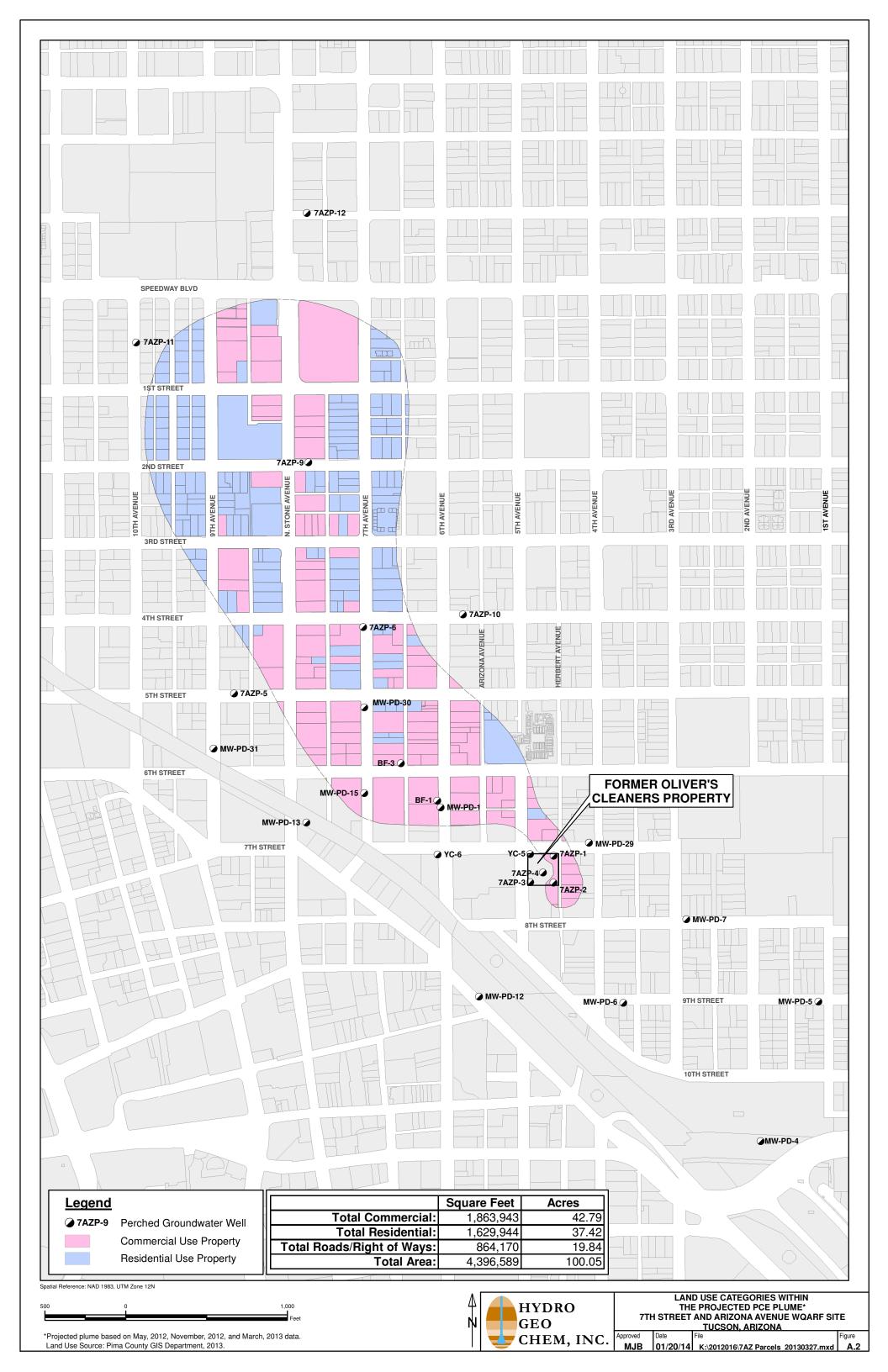
4. **REFERENCES**

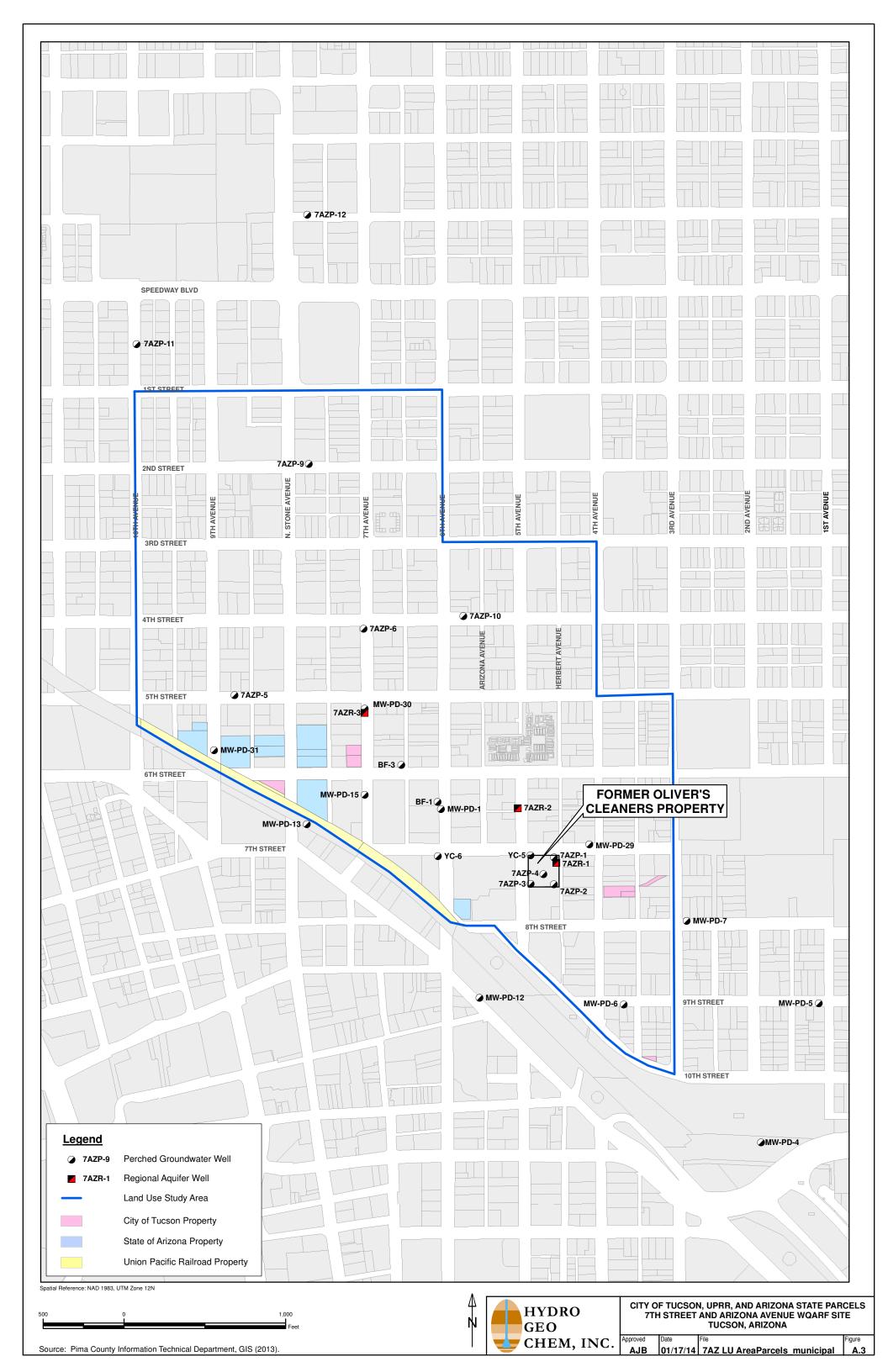
- Davidson, E.S. 1973. Geohydrology and Water Resources of the Tucson Basin, Arizona, U.S. Geological Survey Water Supply Paper 1939-E, U.S. Government Printing Office. 91 p.
- Hydro Geo Chem, Inc. (HGC). 2013. Remedial Investigation/Feasibility Study Work Plan, 7th Street and Arizona Avenue WQARF Site, Tucson Arizona. March 8, 2013.

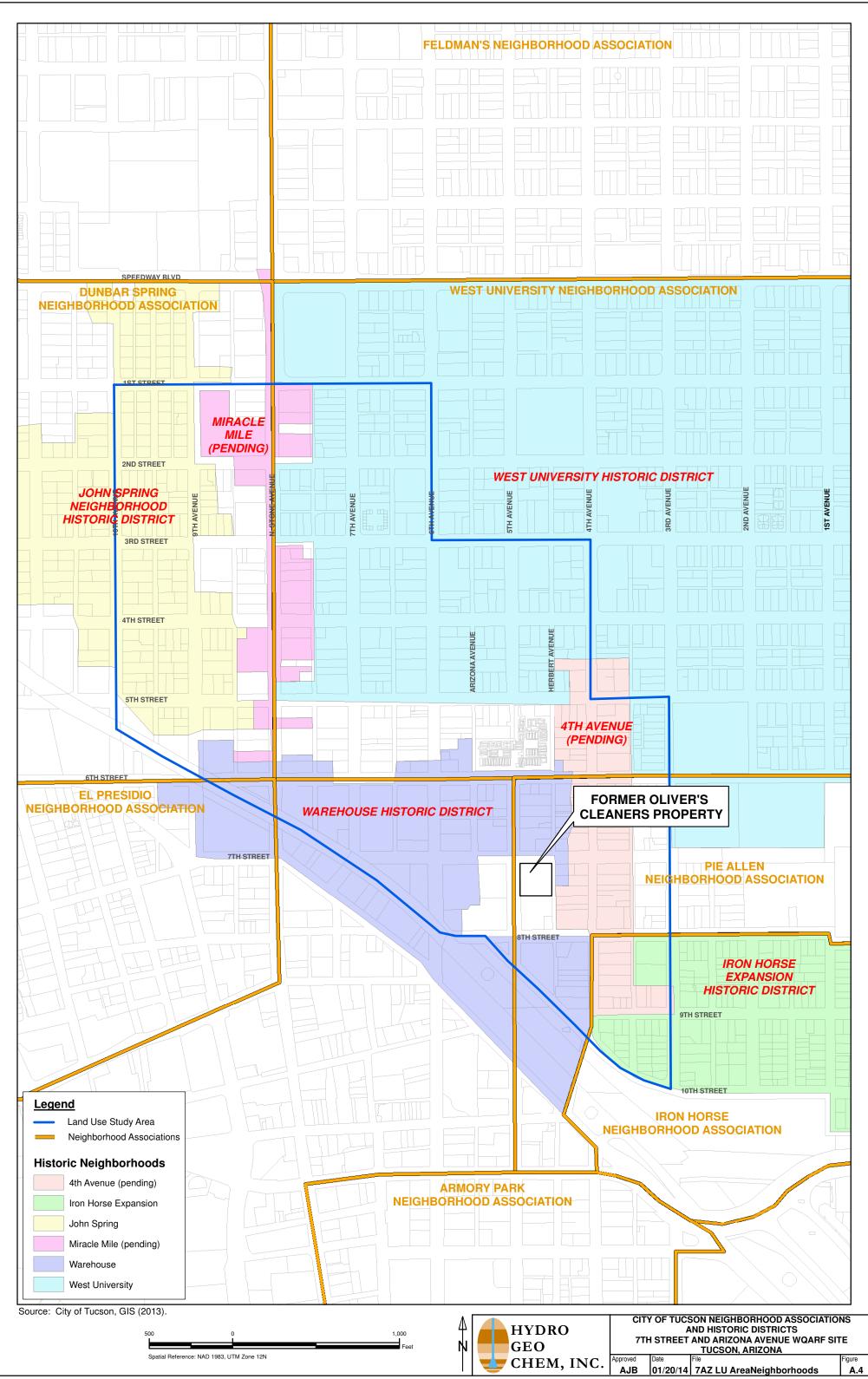
Appendix A: Land Use Study 7th Street and Arizona Avenue WQARF Site – Remedial Investigation H:\2012016.00 ADEQ 7AZ RIFS\Land Use Study\Report\7AZ Land Water Use Study Final Rpt 20140321.doc March 21, 2014

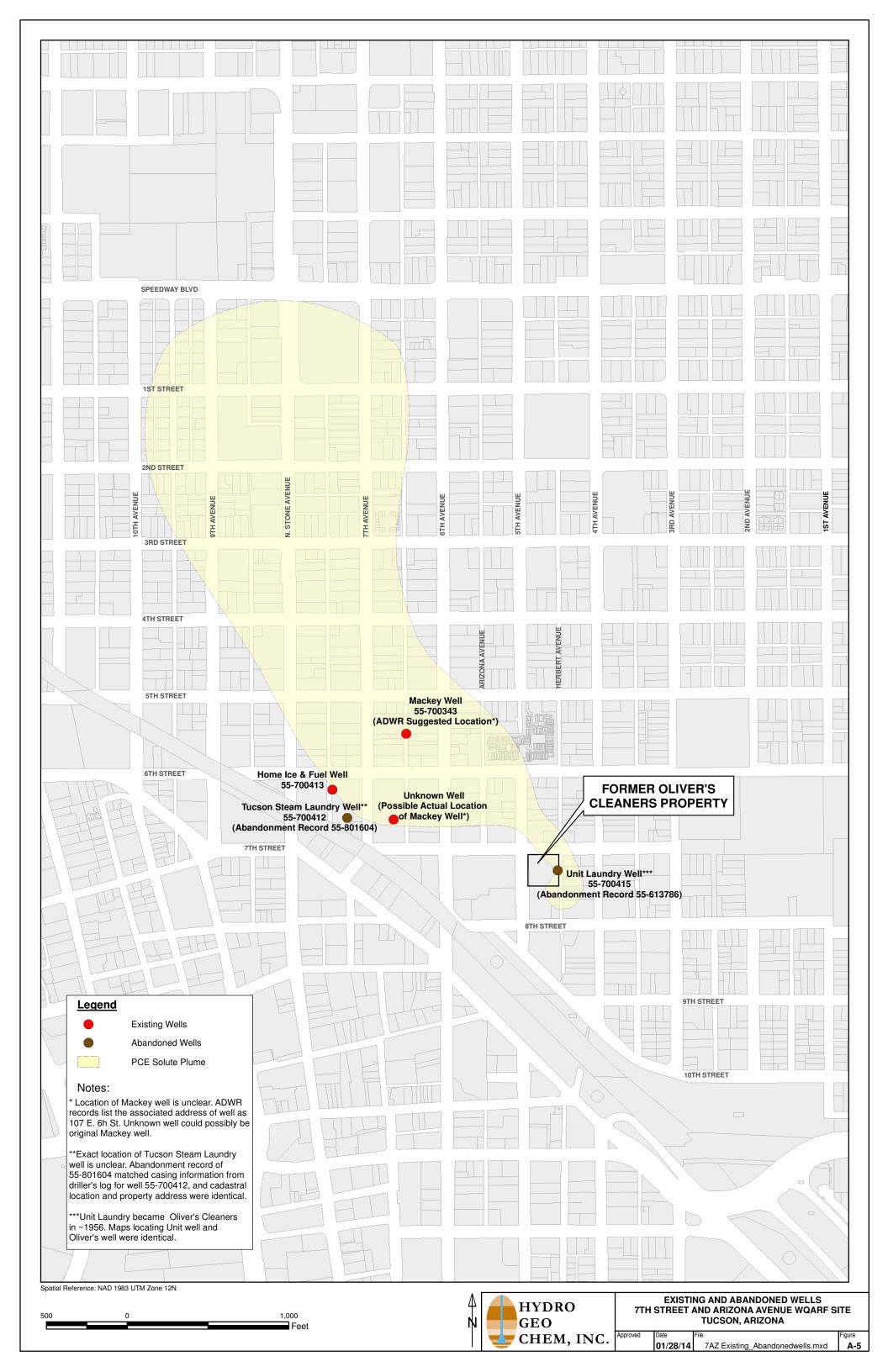
FIGURES











APPENDIX A.1

LAND USE STUDY REQUEST FOR INFORMATION AND RESPONSES



December 3, 2012

Mr. Ernie Duarte, Director City of Tucson Planning and Development Services 201 N. Stone Avenue Tucson, Arizona 85701

Subject: Arizona Department of Environmental Quality (ADEQ) Request for Information Regarding Land Use Related to the 7th Street and Arizona Avenue Water Quality Assurance Revolving Fund (WQARF) Site

Dear Mr. Duarte:

Hydro Geo Chem, Inc. (HGC) is sending this letter on behalf of ADEQ, to request information with regard to land use for the 7th Street and Arizona Avenue WQARF site (Site). ADEQ and HGC will be completing a Remedial Investigation (RI) for the Site, pursuant to Arizona Administrative Code R18-16-406 A(3).

As part of the RI process, information must be collected regarding current and reasonably foreseeable uses of lands that are threatened to be affected by the release of contaminants, in this case tetrachlorethylene (PCE) released from the former Oliver's Cleaners on 7th Avenue and 5th Street. The attached figure (Figure 1) details the area that is relevant to this land use request.

We ask that you provide information on the attached form for current and future land uses of parcels that are owned by the City of Tucson within the boundary shown on Figure 1. We would appreciate a response to this request by December 17, 2012, so that the RI process can proceed on schedule.

If you have any questions regarding this request, please contact me at (520) 293-1500 extension 115.

Sincerely, Hydro Geo Chem, Inc.

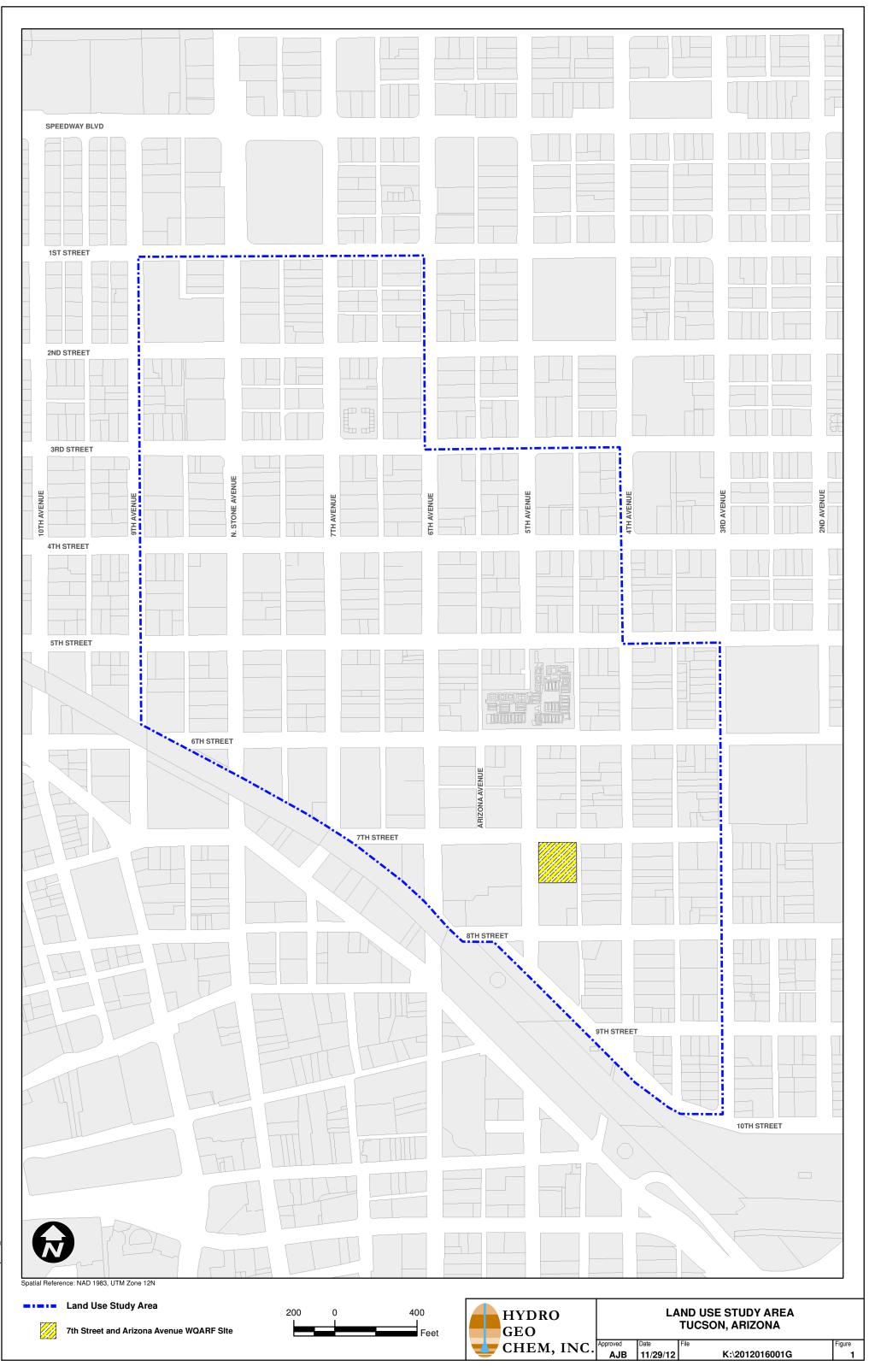
Abra J. Bentley Project Scientist

Attachment(s): Figure 1 Approximate WQARF Boundary, December 2012 Land Use Study Questionnaire

cc: Robert Wallin, ADEQ William Ellett, ADEQ

H:\2012016.00 ADEQ 7AZ RI\Land Use Study\RFI\Land Use RFI - COT.doc 51 West Wetmore, Suite 101 Tucson, Arizona 85705-1678





LAND USE STUDY QUESTIONNAIRE 7th & ARIZONA WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Municipality name:		
Date Questionnaire	was completed:	
Name of person com	pleting Questionnaire: _	
Contact Name:		
Title:		
Division:		
Address:		
Phone Number:		

- 1. What is the current use of your municipality's property within the land use study area of the 7th & Arizona WQARF site? (Boundaries are shown on the attached map.)
- 2. Please list the municipality's properties of concern/boundaries (neighborhood planning committees, zoning, canals, wells, etc.) within the land use study area boundary of the 7th & Arizona WQARF site.

- 3. What are the foreseeable plans for the municipality properties within the land use study area boundary of the 7th & Arizona WQARF site as far into the future as they are known and up to 100 years, if possible?
- 4. Does the municipality have a published general plan for the properties within the land use study area boundary of the 7th & Arizona WQARF site?

- 5. Are parcel, zoning, or land maps available through the municipality? Where are they located?
- 6. Please list any specific concerns the municipality is aware of within the land use study area boundary of the 7th & Arizona WQARF site? Please list future concerns (e.g.-road construction, flood control, etc.).
- 7. Please list any future zoning plans or area plans for the municipality within the land use study area boundary of the 7th & Arizona WQARF site.
- 8. Please list any "special projects" projected or anticipated within the land use study area boundary of the 7th & Arizona WQARF site.

- 9. If any properties are leased (the municipality is the lessor), how long are the lease terms?
- 10. If any properties are leased, are there plans to renew the leases, and if so, for how long?
- 11. Please list any environmental spill of material or waste products that has occurred within the land use study area boundary of the 7th & Arizona WQARF site in the past 5 years.

12. Does your municipality have an environmental manager or do you outsource environmental management to an environmental consulting firm? If so, please provide the following information:

Name:	
Title:	
Address:	
Phone Number:	

Thank you for your time. The ADEQ Project Manager, Mr. Robert Wallin, or a representative from ADEQ's consultant, Hydro Geo Chem, may follow-up on answers provided.



December 3, 2012

Scott Cummings SJ Cummings Properties 305 N. Herbert Avenue Tucson, Arizona 85705-8437

Subject: Arizona Department of Environmental Quality (ADEQ) Request for Information Regarding Land Use Related to the 7th Street and Arizona Avenue Water Quality Assurance Revolving Fund (WQARF) Site

Dear Mr. Cummings:

Hydro Geo Chem, Inc. (HGC) is sending this letter on behalf of ADEQ, to request information with regard to land use for the 7th Street and Arizona Avenue WQARF site (Site). ADEQ and HGC will be completing a Remedial Investigation (RI) for the Site, pursuant to Arizona Administrative Code R18-16-406 A(3).

As part of the RI process, information must be collected regarding current and reasonably foreseeable uses of lands that are threatened to be affected by the release of contaminants, in this case tetrachlorethylene (PCE) released from the former Oliver's Cleaners on 7th Avenue and 5th Street. The attached figure (Figure 1) details the area that is relevant to this land use request.

We ask that you provide information using the attached form for current and future land uses of parcels that are owned by you within the boundary shown on Figure 1. We would appreciate a response to this request by December 17, 2012, so that the RI process can proceed on schedule.

If you have any questions regarding this request, please contact me at (520) 293-1500 extension 115.

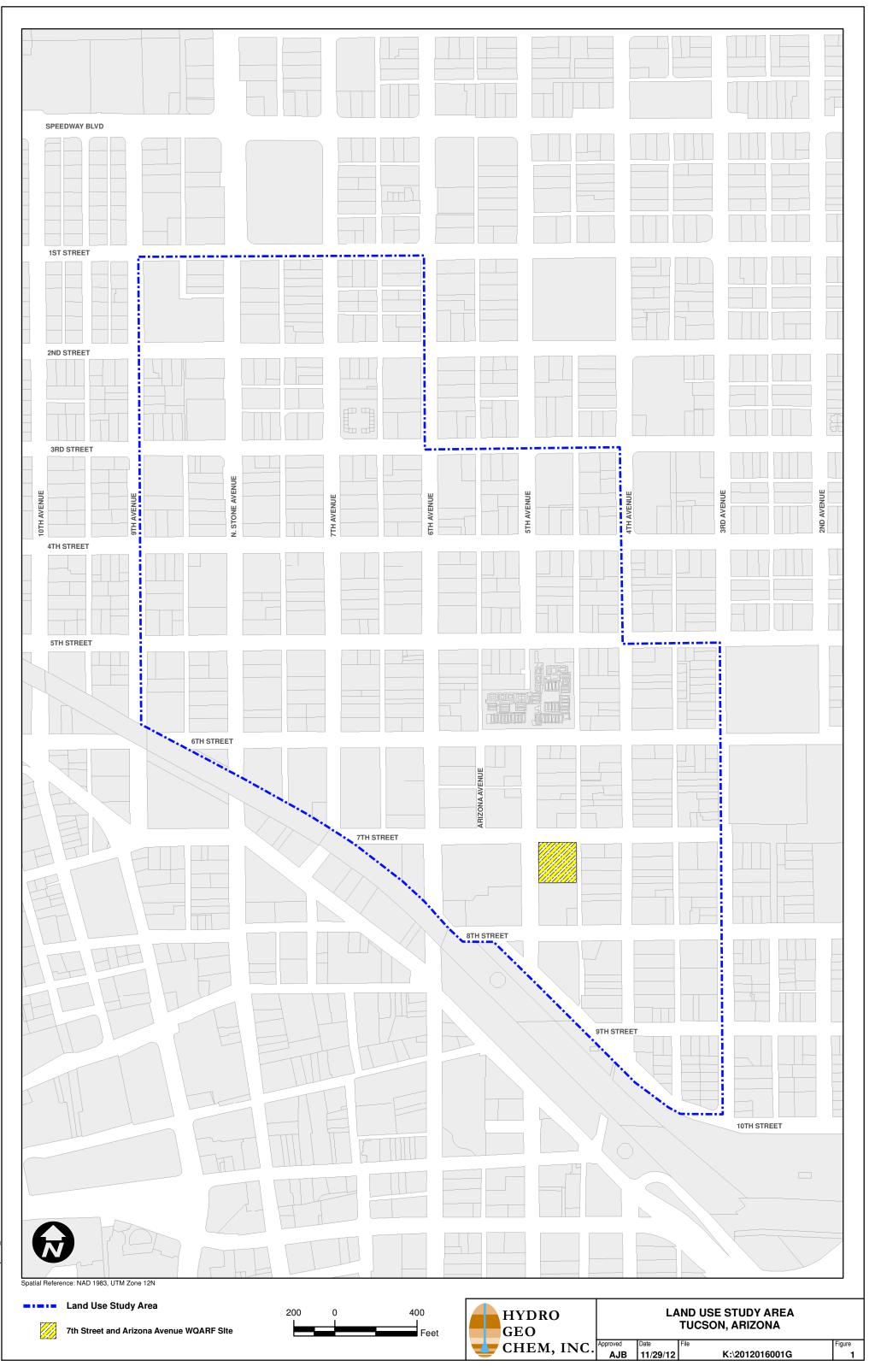
Sincerely, Hydro Geo Chem, Inc.

Abra J. Bentley Project Scientist

Attachment(s): Figure 1 Approximate WQARF Boundary, December 2012 Land Use Study Questionnaire

cc: Robert Wallin, ADEQ William Ellett, ADEQ





LAND USE STUDY QUESTIONNAIRE 7th & ARIZONA WQARF REGISTRY SITE TUCSON, AZ

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name:		
Date Questionnaire v	vas completed:	
Name of person com	pleting Questionnaire:	
Address:		
Contact Name:		
Address:		
Phone Number:		

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

- 3. Is the property owned or leased?
- 4. Who is the owner of the property?

<u> </u>	

- 5. If the property is leased, how long is the lease term?
- 6. If the property is leased, are there plans to renew the lease and for how long?
- 7. If the property is owned, do you plan on relocating and if so in what timeframe?

B. Environmental Information

1. Please list the company's waste streams?

2. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

3. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name:	
Address:	
Phone Number:	

Thank you for your time. ADEQ's Project Manager, Mr. Robert Wallin, or a representative from ADEQ's consultant, Hydro Geo Chem, may follow-up on answers provided.

LAND USE STUDY QUESTIONNAIRE 7^{TH} & ARIZONA WQARF SITE

Municipality Name: City of Tucson Date Questionnaire was completed: December 21, 2012 Name of person completing Questionnaire: Glenn Moyer Title: Planning Administrator Division: Planning and Development Services Department Address: PO Box 27210; Tucson AZ 85726-7210 Phone Number: 520-837-4954

- 1. Current use of municipal property
 - a. Roads
 - b. Washes
 - c. Street railway
 - d. Modern streetcar car barn
 - e. Storm drains
 - f. Signs
 - g. Ductwork
 - h. Road construction storage and staging
 - i. Fiber-optic cable
 - j. Fencing and personal storage
 - k. Wells
 - l. Vacant

The above information is available at the parcel level on the PDSD web map: <u>http://maps.tucsonaz.gov/pdsd/index.html</u> under the "Planning and Zoning" tab and the following check-boxes:

- □ Real Estate
 - □ City Property
 - □ Other City
 - \Box TRE
 - \square RES
- 2. Properties of concern (neighborhood planning committees, zoning, canals, wells)
 - a. Pie Allen N.A.
 - b. Iron Horse N.A
 - c. West University N.A.
 - d. Dunbar Spring N.A.
 - e. El Presidio N.A.
 - f. West University Historic District

The geographic boundaries for each of the above neighborhood associations are available on the PDSD web map under the "Planning and Zoning" tab and the following check-boxes:

D Neighbhorhood Associations

2. cont.

The boundaries of zoning districts are available on the PDSD web map under the "Planning and Zoning" tab and the following check-boxes:

- □ Zoning City of Tucson
- Zoning Overlays

The location of washes are available on the PDSD web map under the "Planning and Zoning" tab and the following check-boxes:

- □ Washes
- 3. Foreseeable plans

Continuation of current uses with increased residential densities and commercial intensity.

- 4. Published general plan (including area and neighborhood plans) <u>http://cms3.tucsonaz.gov/planning/plans/index.html</u> Land use policy within the subject area is provided by the Tucson General Plan, the University Area Plan, and the West University Neighborhood Plan.
- 5. Parcel, zoning, and land use maps
 - a. Parcel, and zoning maps are available on the PDSD web map under the "Planning and Zoning" tab and the following check-boxes:
 - □ Zoning City of Tucson
 - \Box Parcels for streets
 - b. Land use maps are available from the Pima Association of Governments <u>http://www.pagnet.org/documents/rdc/gis/mapexistlanduse2009.pdf</u>
- 6. Specific concerns
 - a. Downtown Links Barraza-Aviation roadway and drainage project <u>http://www.downtownlinks.info/</u>
 - b. Modern Streetcar/roadway construction http://www.tucsonstreetcar.com/
- 7. Future zoning plans
 - a. Downtown Links Overlay District <u>http://www.downtownlinks.info/LandUseUrbanDesign/documents/DLUODUpdat</u> <u>eOctober2012.pdf</u>
 - b. Tucson Modern Streetcar Land Use and Development Implementation Plan Design Charrette (Tucson Modern Streetcar Design Charrette). <u>http://cms3.tucsonaz.gov/pdsd/streetcar_design_charette</u>
- 8. Special projects
 - a. Downtown Links Barraza-Aviation roadway and drainage project <u>http://www.downtownlinks.info/</u>
 - b. Tucson Modern Streetcar http://www.tucsonstreetcar.com/
 - c. Potential parking garage <u>http://cms3.tucsonaz.gov/parkwise</u> for information

9. Leased properties

Lease information is available on the Real Estate web map: <u>http://maps.tucsonaz.gov/realestate/</u> under the "Real Estate" tab and the following check-boxes:

 \Box Lease

□ Lease Point □ Lease Line

10. Lease renewals

See #9 above.

11. Environmental spills

Information will be forwarded when it becomes available. Contact Richard Byrd with questions.

12. Environmental manager

Richard M. Byrd Environmental Management Program Coordinator 4004 S. Park Ave. Bldg #1 P.O. Box 27210, Tucson, AZ 85726-7210 520-837-3710, 520-791-4155 (FAX) 520-403-0295 (Cell), 520-409-8900 (Cell) <u>Richard.Byrd@tucsonaz.gov</u>

RECEIVED DEC 28 2012

LAND USE STUDY QUESTIONNAIRE 7th & ARIZONA WQARF REGISTRY SITE TUCSON, AZ

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: 5th Are \$ 7th Ht. (NBC)
Date Questionnaire was completed: <u>12.27.17</u>
Name of person completing Questionnaire: <u>Jean V. Lumm 1465</u>
Address: 323 E. 3th St
Tucson, ME 85705
Contact Name:
Address:
Phone Number: <u>520.770./60</u> <i>C</i> 520.990./123
A. <u>Property Information</u>

1. What is the current use of the property? Please include a detailed facility description.

a. Surface Prexint Lot b. Specim Events ie. tains, concerts, etc.

Land Use Questionnaire 7th & Arizona WQARF Site

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

Muier Use Commencial/Residentai/ Mitti-story development.

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

Address:

Tacqon the 8570

323 E. 84 41

EXIN PROPERTIES L.L.C.

Phone Number:

- <u>520. 770. 1600</u> 520. 990. 1123
- 5. If the property is leased, how long is the lease term?
- 6. If the property is leased, are there plans to renew the lease and for how long?
- 7. If the property is owned, do you plan on relocating and if so in what timeframe?
- B. Environmental Information
 - 1. Please list the company's waste streams?

2. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NONE

3. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

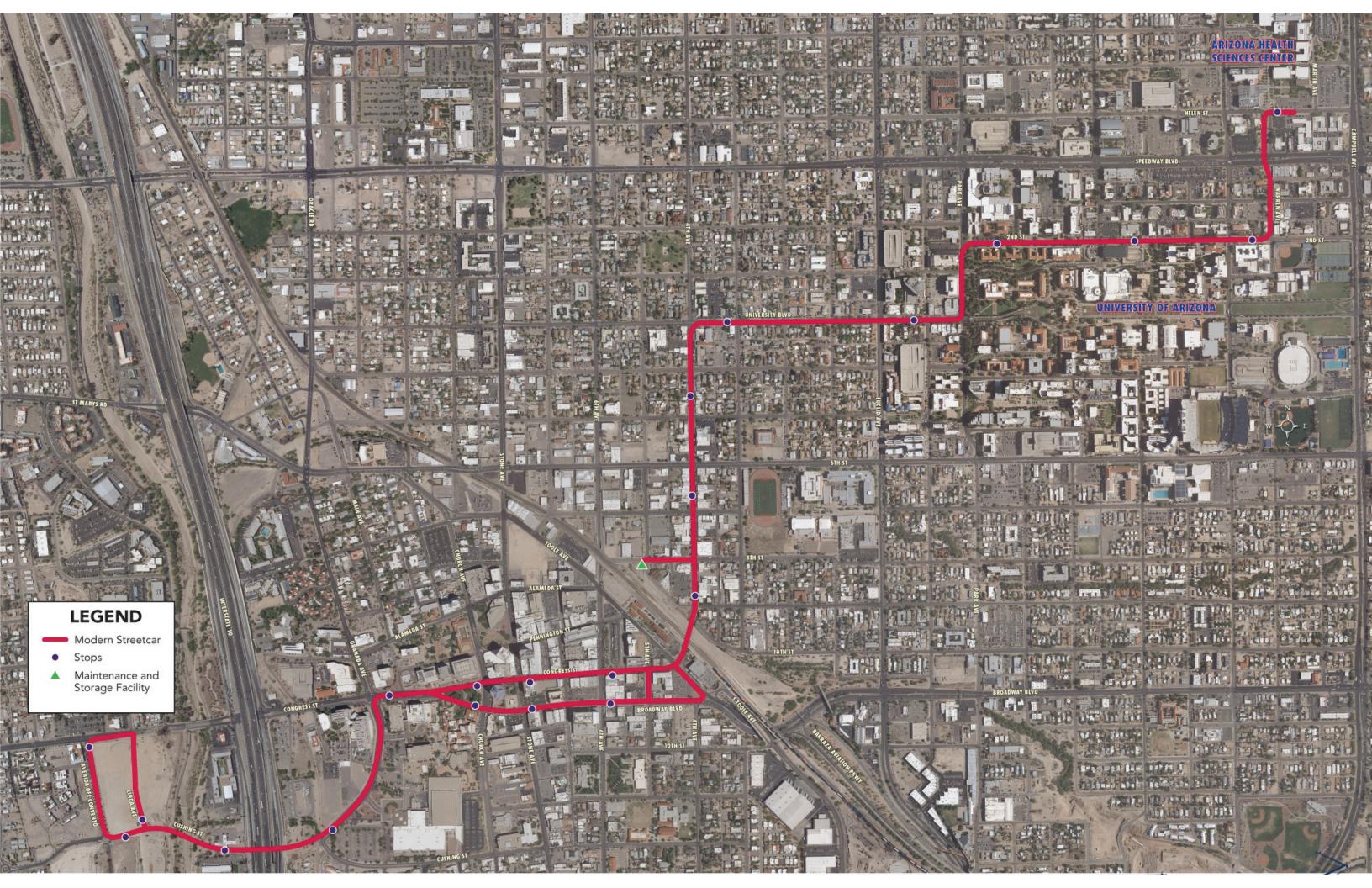
Name:	-AHA
Address:	
Phone Number:	

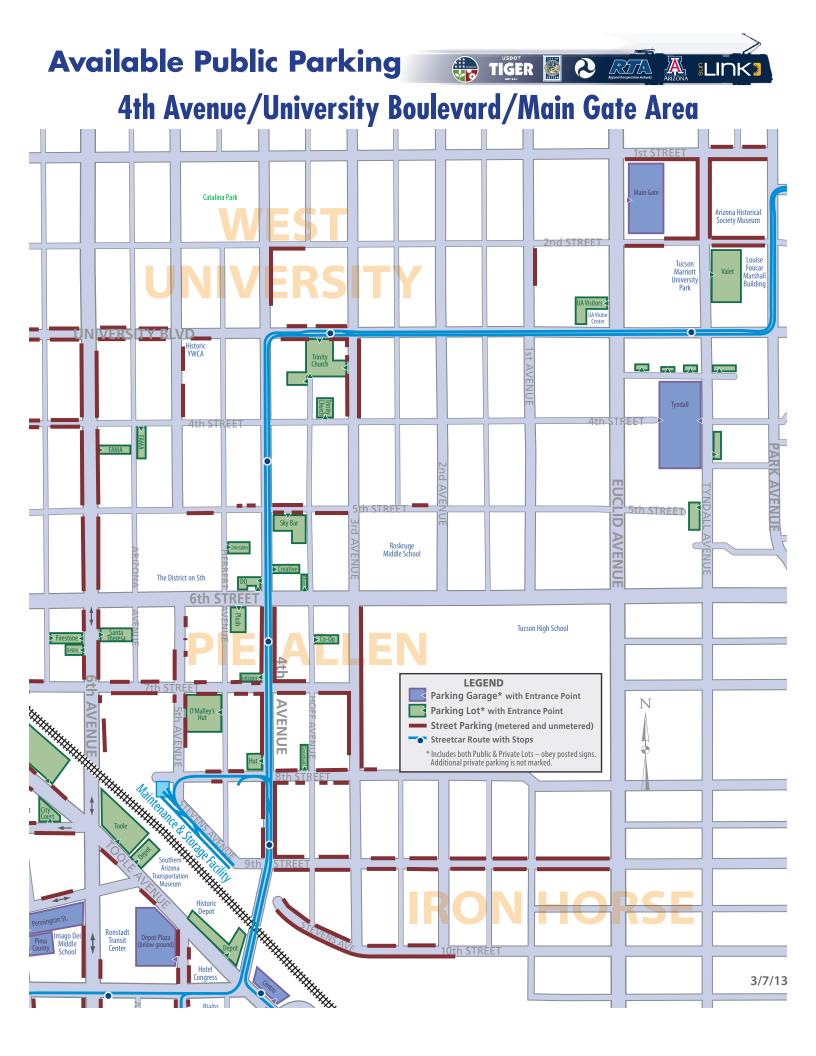
Thank you for your time. ADEQ's Project Manager, Mr. Robert Wallin, or a representative from ADEQ's consultant, Hydro Geo Chem, may follow-up on answers provided.

M.M.M.

APPENDIX A.2

TUCSON MODERN STREETCAR PROJECT





City of Tucson **Downtown Links District (UOD #2)**

Final Submission Update May 2012



Update October 2012



A R C HITE C T U R E P L A N N I N G P R E S E R V A T I O N

317 North Court Avenue Tucson, Arizona 85701 520.882.6310 FAX 882.0725 www.posterfrostmirto.com

Downtown Links District (UOD #1) Poster Frost Mirto, Inc.

City of Tucson **Downtown Links District (UOD #1)**May 2012

Tucson City Council

Jonathan Rothschild, Mayor Regina Romero Paul Cunningham Karin Uhlich Shirley Scott Richard Fimbres Steve Kozachik

Design and Planning Consultant

Poster Frost Mirto,Inc. As a sub-consultant to HDR, Inc

Downtown Links Alternative Zoning - Table of Contents

Section 0: Introduction

Table of Contents	0-0
Introduction	0-1
Purpose	0-4
Establishment	0-5
DLD Plan Requirements	0-5

Establishment0-5DLD Plan Requirements0-5Review and Approval Procedures0-5Traffic Analysis and Parking0-6Reference Map0-10

Sections 1-4: Form Based Code

Section 1: Toole Avenue District	
District Overview	1-1
Regulating Plan	1-2
Standards Summary	1-3
Allowable Uses	1-4
Allowable Uses	1-5
Building Placement and Open Space	1-6
Building Configuration and Landscaping	1-7
Parking	1-8

Section 2: Warehouse Triangle District	
District Overview	2-1
Regulating Plan	2-2
Standards Summary	2-3
Allowable Uses	2-4
Allowable Uses	2-5
Building Placement and Height	2-6
Open Space and Landscaping	2-7
Building Massing	2-8
Parking and Solar Access	2-9

Section 3: Fourth Avenue District

District Overview	3-1
Regulating Plan	3-2
Standards Summary	3-3
Allowable Uses	3-4
Allowable Uses	3-5
Building Placement and Height	3-6
Open Space and Landscaping	3-7
Building Massing and Solar Exposure	3-8
Parking	3-9

Section 4: Ironhorse District

District Overview	4-1
Regulating Plan	4-2
Standards Summary (Mixed Use Sub-Zone)	4-3
Allowable Uses (Mixed Use)	4-4
Building Placement and Open Space (Mixed Use)	4-5
Parking and Landscaping (Mixed Use)	4 - 6
Standards Summary (Low Density Residential Sub-Zone) 4-7
Allowable Uses (Low Density Residential)	4-8
Building Placement and Height (Low Density Residential)	4-9
Privacy (Low Density Residential)	4-10
Parking (Low Density Residential)	4-11

Section 5: Streetscape Standards Streetscape Standards Streetscape Standards

5-1 5-2

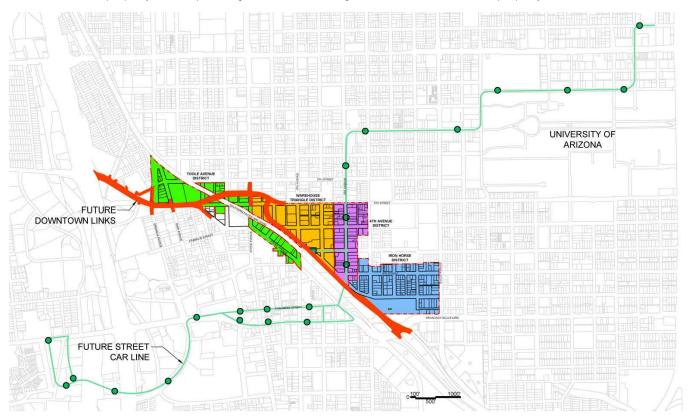
Section 0: Introduction and Policy

Introduction

The Downtown Links District is a new optional zoning district that is proposed to implement the recommendations of the *Downtown Links Land Use and Urban Design Plan*, a companion document to the Downtown Links roadway project. The Downtown Links roadway project is the final product of a series of roadway designs intended to physically connect the western terminus of the Barraza-Aviation Parkway at Broadway in Tucson Arizona, one mile west to the alignment of Interstate 10. As the scope of work for the engineering and planning for the Downtown Links roadway project was being developed, it became apparent to the City of Tucson Department of Transportation that Downtown Links had to be much more than a roadway and stormwater drainage project. The development opportunities enabled by this planning process complemented the transportation component. The strategic location of the transportation project, relative to a larger goal of downtown Tucson revitalization, required a companion planning process to insure that Downtown Links became a catalyst for positive community development and not just a road. The *Downtown Links Urban Design and Land Use Plan* is a result of that vision and the almost three years of extensive and comprehensive community process that followed that progressive planning decision.

The goal of The *Downtown Links Land Use and Urban Design Plan* is to develop an implementable plan that carries forward the revitalization goals and objectives of Downtown, the adjacent neighborhoods, the adjacent districts, and the various property owners and stakeholders. The plan was approved by the Mayor and Council of the City of Tucson on September 9, 2009.

Downtown Links District (DLD) is proposed as the regulatory tool to implement the *Downtown Links Land Use and Urban Design Plan*. The urban overlay district will be an alternative zoning choice. This will give the property owners in this district the choice of following either the provisions of the underlying zoning district (along with all other applicable zoning overlays) or the fully developed DLD with all of its by-right provisions. Of course, a third choice is always available to each property owner: pursuing his or her rezoning or PAD on his or her own property.



Downtown Links District occupies the critical mid-zone between Downtown and the University of Arizona intersecting with the future street car line. The 111-acre District has four sub-areas: Iron Horse District, 4th Avenue District, Warehouse Triangle District, and Warehouse Toole District.

Introduction, cont.

The Rationale for the Use of a PAD Zone

Once chosen by the property owner, the DLD will entirely replace the underlying zone and all other applicable overlay zones. For this reason, the DLD is laid out in the PAD format as outlined in the Land Use Code. The PAD format is also preferred because it allows for alternative zoning and design standards tailored for a specific area, providing the degree of flexibility that is not possible under existing regulations.

Conformance with the General Plan and City Land Use Plans

The proposed Downtown Links District is consistent with all applicable plans as discussed below and it furthers the goals of the *Downtown Links Land Use and Urban Design Plan*.

General Plan

The DLD falls within the Central Core Growth Area defined by the *General Plan*. The policies identified for this area include the following:

Policy 5: Promote land use, transportation, and urban design improvements that would link the Downtown with Fourth Avenue, the Warehouse District, and the University of Arizona and would enhance the historic and cultural quality within the greater Downtown.

Policy 6: Support commercial revitalization that builds on transportation improvements and that establishes appropriate links to the adjacent and surrounding neighborhoods.

Policy 7: Promote the continued viability of historic neighborhoods, historically significant structures and sites, and the development and retention of residential uses in the greater Downtown.

The DLD supports these policies through a set of land use and urban design regulations geared towards enhancing the above-mentioned areas and the connectivity between them by promoting transit and pedestrian-oriented development. The regulations also provide for the protection of historic resources to reinforce the unique identity and character of historic neighborhoods.

The Land Use Element of the *General Plan* emphasizes compatible infill rather than peripheral sprawl to accommodate new growth. The land use policies promote pedestrian and transit-oriented mixed-use infill development near major activity centers. There is a set of policies created specifically for Downtown and the greater Downtown area that encourages: providing a mix of land uses including new residential opportunities, revitalizing the Warehouse District, improving the pedestrian environment, and promoting alternative modes of transit. The General Plan also recommends establishing overlay zones for areas suitable for redevelopment or enhancement and considering incentives such as parking reductions to facilitate development in such areas. The DLD is an optional overlay zone established to carry forward the revitalization goals and objectives of Downtown and adjacent districts and is in line with the land use policies of the *General Plan*.

University Area Plan

The majority of the DLD falls within the boundaries of the *University Area Plan* adopted in 1989 and amended in 2003 by the Mayor and Council. The plan emphasizes preserving historic resources, enhancing historic character and identity, and improving the quality of life in the university area residential neighborhoods. The policies are geared towards protecting these neighborhoods from non-compatible development and encouraging infill development that complements the existing neighborhood scale and character. The Plan also supports the continued vitality of 4th Avenue as a pedestrian-oriented commercial district. The DLD seeks to accomplish the same goals regarding neighborhood preservation and enhancement for the areas overlapping with the *University Area Plan*.

The Plan recommends against the granting of parking variances which may have a negative impact on residential neighborhoods. The DLD intends to solve the parking problem on a community scale through reliance on better public transit including the Modern Streetcar, more efficient on-street parking, and a new municipal parking structure

Introduction, cont.

University Area Plan, cont.

(Parkwise). No parking variances are proposed within the DLD.

The Plan's policies regarding new residential development call for high density development to be in conformance with either the Residential Cluster Project provision of the Land Use Code (which has been replaced by Flexible Lot Development in the current Land Use Code) or the alternative set of criteria specified in the Plan (University Area Plan, p. 10). The new residential development provisions of the DLD meet all the alternative criteria established for high density development, with respect to surrounding land uses, vehicular access, pedestrian network, access to transit, bicycle parking, and inclusion of mixed uses.

West University Neighborhood Plan

The DLD has a small overlapping area with the *West University Neighborhood Plan* (adopted in 1982 and most recently amended in 2009) at the NE corner of Stone Avenue and 6th Street. The plan designates this area as "New Development - Mixed Use -Commercial/Residential (15-40 units per acre)" in its future development concept map. The DLD serves as a useful zoning alternative since it provides for mixed-use development on these parcels. To be consistent with the height requirements of the *West University Neighborhood Plan* regarding new residential development (West University Neighborhood Plan, p. 6), the DLD limits the structures to 40 feet on the overlapping parcels. Following the intent of the Plan, the owner/developer of these parcels will need to demonstrate no overflow parking into the West University Neighborhood.

The West University Neighborhood Plan also calls for protecting the historic character of the neighborhood. The DLD is in compliance with this, as it has more restrictive language on historic structures than the Neighborhood Plan itself.

Stone Avenue Corridor Study

The *Stone Avenue Corridor Study*, although not a regulatory plan, specifies goals and recommendation to make Stone Avenue a better place to live and work. The study shares a very small overlapping area with the DLD and therefore does not have significant implications.

University of Arizona Comprehensive Campus Plan Update 2009

The 2003 University of Arizona Comprehensive Campus Plan includes a section on the discussions between the University of Arizona and the City of Tucson about potential projects in downtown, including housing options for students, faculty, and staff. The 2009 Campus Plan Update states that the Modern Streetcar, which will connect these two major employment centers in 2012, "offers new transit-oriented development opportunities to meet the University needs, at appropriate downtown redevelopment sites as identified by the City, within ¼ mile of proposed Modern Streetcar line stations." The Plan Update also expresses that there is strong support for a U of A presence in downtown Tucson.

There is notable amount of vacant or under-utilized land in the Warehouse Triangle District within close proximity to future streetcar stops. The DLD supports potential U of A by providing guidelines for high-quality transit-oriented development and by removing zoning obstacles currently present in this area.

Benefits to the Community

The DLD is established to carry out the revitalization goals of Downtown and the adjacent neighborhoods. It seeks to enhance the quality of life in the greater Downtown area through promoting pedestrian and transit-oriented development, improving streetscape and pedestrian infrastructure, reinforcing bicycle and pedestrian connectivity, offering historic protection to neighborhoods, and encouraging revitalization of the area through compatible infill development.

Introduction, cont.

Compatibility with Adjoining Land Uses

The DLD has four sub-areas with different sets of regulations and standards to ensure compatibility with the unique neighborhood context and character of each individual area:

Iron Horse District: Preserve the historic residential character and enhance 9th Street as a neighborhood-scale commercial district.

Fourth Avenue District: Reinforce the historic pedestrian-oriented commercial character.

Warehouse Triangle District: Create a mixed-use urban area with increased densities. (A high density, mixed-use district has received consistent community support at this location.)

Warehouse Toole District: Create a mixed-use district with an emphasis on arts-related uses in line with the recent history of the area.

Physical and Economic Suitability/Feasibility with Existing Infrastructure

The Downtown Links District is proposed to facilitate private investment in an area where enormous public investment has been made. The District intersects with the Modern Streetcar Project and the Downtown Links Project which provides a catalyst for infrastructure, pedestrian and landscape improvements. The following is a list of projects completed or funded to be completed in the near future with public dollars in the area:

- **Modern Street Car Project:** A four-mile modern streetcar line connecting the University of Arizona to the 4th Avenue, Downtown and the Mercado District (expected to be completed by 2012).
- **Downtown Links**: A multi-modal roadway project connecting the Barazza-Aviation Parkway with I-10 (construction expected to begin in 2011).
- **Depot Plaza:** A public/private multi-phased housing and pedestrian infrastructure/streetscape improvement project (currently under construction).
- 4th Avenue Underpass: Reconstruction of the 4th Avenue Underpass completed in 2009.
- Historic Train Depot: Historic renovation of the train depot completed in 2004.

The large amount of land zoned as I-1 within the DLD poses an obstacle to private developers since I-1 zoning in Tucson prohibits residential development of any kind. Currently, residential development or mixed-use development with residential uses, proposed on parcels zoned as I-1, require a lengthy and costly rezoning process. The DLD provides an alternative to going through a lot-by-lot rezoning of I-1 sites. Considering the great potential for development, partly hindered by I-1 zoning in the highly under-utilized Warehouse Toole and Warehouse Triangle Districts, the DLD is a much-needed regulatory tool for a vibrant Downtown.

Purpose

The primary purpose of the Downtown Links District Urban Overlay District#1 (DLD) is to encourage redevelopment in the following ways:

- A.Encourage sustainable infill development that supports the creation of urban neighborhoods that are pedestrian and transit-oriented; and,
- B. Carries forward the revitalization goals and objectives of Downtown, the adjacent neighborhoods, the adjacent districts, and the various property owners and stakeholders; and,
- C. Address barriers to infill development in the Downtown Links District such as incompatible development standards, and associated development issues; and,
- D. Offing development incentives permitting a modification of development regulations as provided herein.

Establishment

- A. The Downtown Links District (DLD) is an optional overlay zone. Individuals may choose the pre-existing underlying zone or the development options of the DLD urban overlay district. Plans submitted pursuant to the DLD shall comply with the regulations herein.
- B. The DLD is comprised of four (4) subdistricts: the Toole Avenue Subdistrict (TAS), the Warehouse Triangle Subdistrict (WTS), the Fourth Avenue Subdistrict (FAS), and the Iron Horse Subdistrict (IHS). The boundaries of the DLD and subdistricts are described in each subsection (see illustrative Maps on pages 1-2, 2-2, 3-2, and 4-2). The exact boundaries of the DLD overlay and subdistricts are identified on official zoning maps kept on file at the Planning and Development Services Department (PDSD) and the City Clerk.
- C.Regulations specific to the TAS, WTS, FAS, and IHS are provided in sections 1.0 (TAS), 2.0 (WTS), 3.0 (FAS), and 4.0 (IHS) respectively. Regardless of subdistrict, individuals choosing the DLD overlay option must comply with DLD Plan Requirements, and Review and Approval Procedures, and must submit a DLD Plan as outlined in the introductory chapter.
- D. A DLD Plan cannot be used in conjunction with other waivers or modification provisions provided by the Land Use Code. Where the DLD, the Rio Nuevo and Downtown (RND), and / or the Downtown Area Infill Incentive District Zone (IID) overlay zones overlap applicants may select the provisions of not more than one overlay zone.
- E. Where the regulations of this section conflict with other sections of the Land Use Code, the regulations of this section shall control. If specific regulations are not addressed by this section the Land Use Code shall govern.

DLD Plan Requirements

Adminstration of the DLD is governed by the procedures and regulations in LUC Section 2.8.13 "UOD" URBAN OVERLAY DISTRICT ZONE (UOD)

<u>Requirements.</u> Use of the regulations of the DLD, as opposed to existing zoning, requires plan approval by PDSD regardless of the DLD Sub-district.

1. Applicants must submit a DLD Plan in compliance with applicable DLD and Sub-District regulations, identifying their intention to utilize the DLD zoning in lieu of the existing zoning.

2. Except as provided herein, a Plan must be prepared in compliance with Development Standard 2-01.0.0 (Development Package). Additionally, applicants are required to provide drawings and information as needed to demonstrate compliance with the requirements of each Sub-District. A drawing cover sheet/check-list will be provided to facilitate the applicants intended use of the DLD. This checklist in 24 x 36 format will be provided upon request by the PDSD.

3. The property owner shall at the time of initiating the "U" zoning execute a waiver of potential claims under A.R.S. Sec. 12-1134 for this zoning amendment as permitted by A.R.S. Sec. 12-1134 (I) in the form approved by the City Attorney and titled "Agreement to Waive Any Claims Against the City for Zoning Amendment".

Review and Approval Procedures

PDSD shall administer DLD Plan review procedures.

1. When chosen, the DLD regulations and development standards supplement and supersede existing zoning within the District and Sub-District. This DLD defines the allowed land uses and the performance criteria for future development and redevelopment within the DLD and supersedes existing regulations within the City of Tucson Land Use Code (LUC). Whenever a conflict exists between the DLD and the LUC this DLD shall control. If an issue, definition, condition or situation arises that is not addressed within this DLD, the LUC, Development Standards or other applicable City regulations shall control.

2. DLD interpretations will be subject to LUC review as set out for PAD's in Section 2.6.3.10.

3. Amendments to this DLD may be necessary over time in order to respond to changing context, market or financial conditions or to respond to the unanticipated needs of new users. Minor or non-substantial changes (analogous uses, interior tax code boundary changes, minor adjustments to the standards that are consistent with the stated goals of this DLD, etc.) to the DLD must be submitted through PDSD staff and with staff recommendation, may be approved by the Development Services Director. Substantial changes that contradict the intent of this DLD shall require an amendment as per *LUC UOD 2.8.13.9*.

and density) as follows:

Review and Approval Procedures, cont.

4. For development within any of the DLD Sub-Districts, DLD Plans shall be processed according to the Development Compliance Code, Sec. 23A-34 (Development Plan Review), with the exception that a pre-application conference is required and that the "minimal" version of that Development Plan will be accepted. DLD Plans shall be reviewed and considered for approval within thirty (30) working days of PDSD accepting the application.

<u>Historic Preservation</u>: Use of the DLD is intended to be compatible with historic preservation. Effective May 1, 2012, any modification to "listed" or "eligible-to-be-listed" historic structure or structures that precedes, follows, or is part of a development (including alterations, additions, and full or partial demolitions) that, in the evaluation of the City of Tucson Historic Preservation Officer (COTHPO), does not meet the Secretary of Interior's Standards for the Treatment of Historic Properties and would cause the historic building or structure to be de-listed from the National Register of Historic Places, or cause it to become ineligible for listing in the National Register, disqualifies the use of the DLD zoning option for that entire site. Any development proposing to use the DLD requires a written concurrence from the COTHPO that the National Register listed or eligible-to-be-listed properties will not be de-listed or made ineligible for listing. Appeals of the COTHPO decision by any interested party can be made to the State Historic Preservation Officer (SHPO). City of Tucson activities (including full or partial demolitions) associated with the construction of the Downtown Links Roadway are excluded from this Historic Preservation standard.
 Appeals of any decisions by the PDSD Director relative to the DLD shall be made to the Board of Adjustments of the City of Tucson in accordance with Section 23A-61 of the Tucson City Code .

7. The DLD cannot be used in conjunction with the IID (Infill Incentive District) or other waiver procedures in the LUC.

Traffic Analysis and Parking

Introduction:

The Downtown Links District has a unique location. The DLD is located .75 miles from the

40,000-student/10,000-employee University of Arizona; .25 miles from the 10,000-employee Downtown District; within .25 - .50 miles of stops of the 2013 Modern Streetcar with 10-minute headways; and in a city with excellent conditions [flat and generally dry] for bicycling and walking. The Downtown Links District has the potential to define a new set of transportation habits among users and residents of this District. To further reinforce this change in transportation paradigm, most of the overlay zoning rules in this DLD waive on-site parking requirements entirely (see Sub-Districts). Residential developers will be encouraged to break the link between apartment rental and/or sales and automobile parking, thus financially rewarding those without a car and requiring those with a car to pay for their fair-share cost of parking in structures in the District. The District is planning for substantial improvements in facilities for bicycles and pedestrians (see Section 5-1 of this DLD, Streetscape Standards). All in all, the vision for the District is based on providing, **in this unique location**, an opportunity for some residents and users of the commercial and office facilities, to make life without a car a reasonable transportation alternative.

An evaluation of the requirements and opportunities of this DLD yields a calculated maximum build-out of this area (if all owners opted for the UOD-DLD Overlay Zoning and built to the maximum allowable heights and density) as follows:

Commercial Development, 1.4 million square feet of gross leasable area

Office: 500,000 square-foot gross leasable area (35% of commercial area) Retail: 360,000 square-foot gross leasable area (25% of commercial area) Restaurant: 95,000 square-foot gross leasable area (7% of commercial area) Shopping Center: 400,000 square-foot gross leasable area (28% of commercial area) Cinema/ Entertainment 25,000 square-foot gross leasable area (2% of commercial area) Hotel: 400 Rooms (3% of commercial area) **Residential Development**

1,849 multi-family dwelling units

Based on these projected uses and quantities, the following trip generation is projected as per *ITE Trip Generation Manual (8th Edition)*, 2008:

Total Daily External Trips = 44,401.

Traffic Analysis and Parking, cont.

Mode Shift Incentives in DLD

In evaluating the impact of these generated external trips, the following list represents the transportation incentives contained in this document and projected by external transportation planning activities:

- No on-site parking will is required for most development in the DLD.
- Residents without cars typically will have no parking space cost-burden added to their rent or sales price.
- City of Tucson ParkWise will eventually provide a central structured garage so that residents with cars or visitors to the area can pay for reserved or open parking.
- A car-share program, sponsored by ParkWise (perhaps with a vendor), will allow residents easy access to a fleet of cars in the parking structure available with a card swipe.
- There will be a Modern Streetcar with 10 minute headways available within the District by 2013.
- Pedestrian environment improvements (sidewalks, safe crosswalks, ADA corner ramps and other facilities, shade, seating, "parklets", and pedestrian-scale mixed-use development) will make walking a viable alternative mode. This is especially true for trips to employment centers and educational facility (downtown and the University of Arizona).
- Bicycle environment improvements (bicycle boulevards, bike lanes and bike-able streets, Streetcar track-hazard
 protection, plentiful secure bicycle parking/racks at home and all destinations, safe street-crossings, etc.) will make
 biking, especially to employment centers and educational facility (downtown and the University of Arizona), a viable
 alternative mode.
- The Downtown Links District UOD will develop as a viable high intensity mixed-use district with 1.4 million square feet of commercial activity to support a very high level of "internal trip capture," i.e. many trips will be internal trips rather than external trips.

As a result of these incentives for urbanism, it is projected that automobile trips as a percentage of total external trips, will drop dramatically from suburban standards or even Light-Rail standards (85% car trips, see *Improved Estimation of Internal Trip Capture for Mixed-Use Developments* (ITE Journal, August 2010). Instead the following assumptions govern:

- Auto ownership and storage for residents in the district will fall to 1 car for every 2 housing units. Some of those cars will be stored in University of Arizona garages.
- Non car owners will participate in car share at a 50% rate. Car-share averages 1 car per 17 car-share clients (see Institute for Neighborhood Technology, *I-Go Car-Share*).
- Even among car owners, mode choice will often leave the car in structure in the district and opt for walking, bicycle and transit trips to destinations at the University of Arizona or Downtown.

The net result of projected trip generation in the DLD is a mode split of approximately 1/3 : 1/3 : 1/3 - car trips : walking/bicycle trips : transit trips. Using the 44,401 projected trip generation, the following trip/mode split is projected:

Daily Total	Daily Total Vehicle	Daily Total Vehicle	Total Daily Net
External Vehicle	Trips Reduced by Trips Reduced by External Vehicle		
Trips	Public Transit Trips	Walk/Bicycle Trips	Trips
44,401	14,800	14,800	14,800

Traffic Analysis and Parking, cont.

This projection is supported by recent survey and assessment by the University of Arizona. The University of Arizona is located less that 1 mile away for the DLD and has order-of-magnitude-comparable residential and commercial/institutional square footage to the projected maximum build out of DLD. It is projected that the residents and users of the DLD will have many of the same demographic characteristics of University students and employees. In the April 2008, *University of Arizona Needs Assessment Study* (Pima Association of Governments), the following data was presented to describe the current mode split of students and employees. (Note that the activation of the Modern Streetcar in the DLD in 2013 will have a significant upward impact on the use of Public Transit [now only Cat Tran and Sun Tran] in the 0 to 1 mile and 0 to 2 mile categories.)

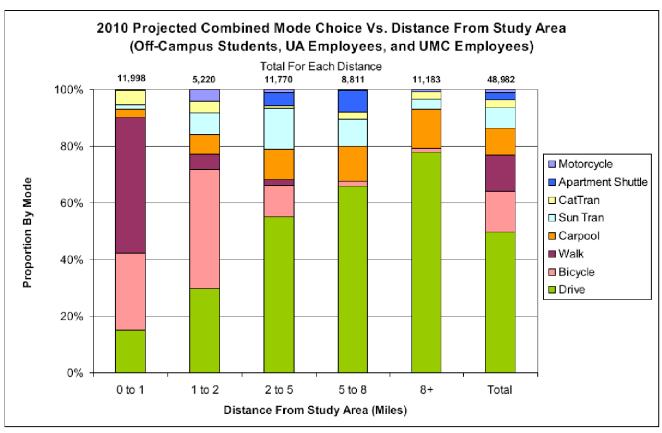


Exhibit 3-25 YEAR 2010 MODE CHOICE BY DISTANCE FROM STUDY AREA

Traffic Impact Analysis:

Aside from the data presented above, no Traffic Impact Analysis is being presented as part of this DLD re-zoning process. However, individual projects with substantial transportation impacts will be required to provide such Traffic Impact Analysis as part of their Development Plan according to the following criteria from the *Transportation Access Management Guidelines for the City of Tucson, 2003:*

"6.3.2 Traffic Impact Analysis. A Traffic Impact Analysis (TIA) is a specialized study of the impacts that a certain type and size of development will have on the surrounding transportation system. A TIA is essential for many access management decisions, such as spacing of driveways, traffic control devices, and traffic safety issues. It is specifically concerned with the generation, distribution, and assignment of traffic to and from new development. A TIA should also

Traffic Analysis and Parking, cont.

be used as part of the site planning process, not merely justification of the site plan. The purpose of this subsection is to establish uniform guidelines for when a TIA is required and how the study is to be conducted. The specific analysis requirements, and level of detail, are determined by the following requirements.

CATEGORY I TIA -- Developments which generate from 100 up to 500 peak hour trips. The study horizon should be limited to the opening year of the development. The minimum study area should include site access drives and adjacent signalized intersections and/or major unsignalized street intersections.

CATEGORY II TIA -- Developments that generate from 500 up to 1,000-peak hour trips. The study horizon should include both the opening year of the development and five years after opening. The minimum study area should include the site access drives and all signalized intersections and/or major unsignalized street intersections within one-half mile of the development.

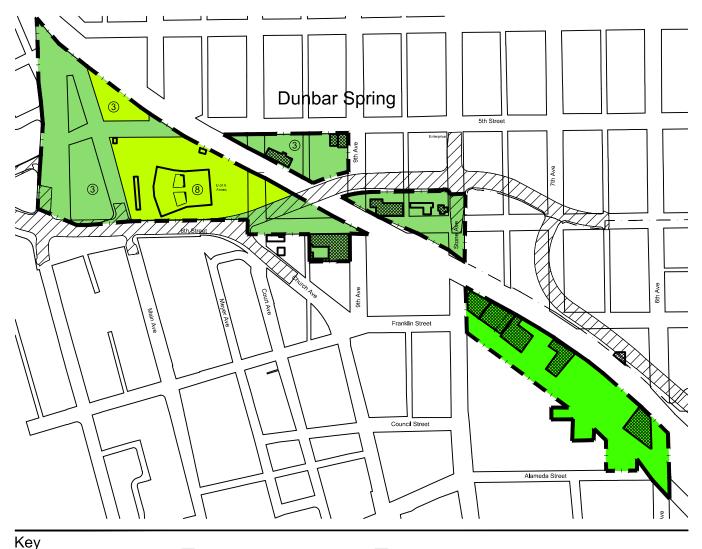
CATEGORY III TIA -- Developments that generate 1,000 or more peak hour trips. The study horizon should include the opening year of the development, five years after opening and ten years after opening. The minimum study area should include the site access drives and all signalized intersections and/or major unsignalized street intersections within one mile of the development."

Consult all of Section 6.3.2 of *Transportation Access Management Guidelines for the City of Tucson, 2003* for additional requirements; however Traffic Engineers are urged to use the University of Arizona mode-split data and the unique conditions of this DLD in their Traffic Impact Analysis.



The intent of this zone is to allow for and encourage development of northern Toole Avenue as per the Historic Warehouse Arts District Masterplan. Incentives offered under the Downtown Core sub-district of the infill incentive zone such as exemptions from MS&R setback, perimeter yards, lot coverage, floor area ratio, parking and landscape and screening requirements are included under this zone. Additionally, residential development (not currently allowed in the underlying I-1 zone) shall be permitted.

REGULATING PLAN Toole Avenue Subdistrict



Property line

Unlisted existing building Subdistrict Line

 \bigotimes Listed or eligible building ⁽¹⁾

Zoning Districts

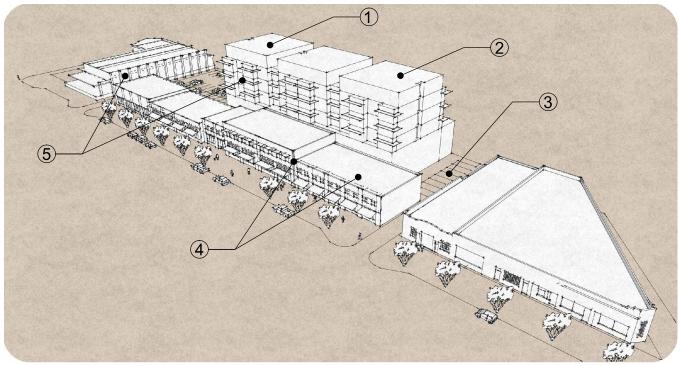
- UA Annex Sub-zone (Existing C3 Zoning)⁽²⁾
- UA Annex Sub-zone (Optional C3 Zoning)⁽³⁾

Toole Avenue Sub-zone

Future Downtown Links roadway (4)

Notes

- (1) Use of the DLD zoning option is intended to be compatible with historic preservation. Any action that has a "negative impact" on historic properties will disqualify the use of the DLD zoning option for that site. See Review and Approval Procedures, paragraph 5, page 6. The maps included in this document attempt to show the "contributing" or "eligible" properties from information available in May of 2012. For purposes of the use of DLD zoning option, it is the responsibility of each applicant for this zoning option to verify the current contributing or eligibility status of the property in question.
- (2) Existing underlying zoning applies to these areas.
- (3) Existing I-1 zoning optional C3 zoning may be used with land uses around this area.
- (4) Development under Downtown Links District (UOD #1) is prohibited within the R.O.W. of the future Downtown Links roadway project. Preliminary location of the future R.O.W. is shown here - review with COT DSD staff at time of initial planning.



Illustrative example of buildings in the Toole Avenue area

Standards Summary

- (1) Residential land use allowed.
- (2) Mid-rise (up to six stories) allowed with setback from Toole Avenue to respect scale of historic warehouses.
- (3) Exemption from parking requirements as part of transit-orientated developments - surface parking is allowed but must be set back from Toole Avenue.
- (4) Building height limited to two-stories and building massing broken down along Toole Avenue to respect scale of historic warehouses.
- (5) Exempt from lot coverage, and density limits, landscape screening requirements and setbacks modified.

Land Use Type

Commercial Services Use Group

Administrative and Professional Office

Alcoholic Beverage Service

Day Care

Entertainment (2)

Financial Services (3) (4)

Food Service (5) (6)

Medical Service - Outpatient (7)

Parking

Personal Service

Technical Service

Trade Service and Repair, Minor

Transportation Service, Land Carrier (9)

Travelers Accommodation, Lodging (10)

Research and Product Development, but only of a

scientific, non-industrial nature

Animal Services, provided that the use is entirely contained

in the interior of the pertinent building (and not in any yard

or patio

Retail Trade Use Group

Food and Beverage Sales (3)

General Merchandise Sales (3) (12) (13) (14)

Vehicle Rental (15)

Civic Use Group

Civic Assembly

Cultural Use

Educational Use: Postsecondary Institution and

Instructional School

Membership Organization

Postal Service

Religious Use

Protective Services

Recreation Use Group

Recreation (16)

Family Dwelling

Group Dwelling

Artist Studio / Residence (17)

Residential Care Services: Adult Care Service

or Physical and Behavioral Health Service (18) (20)

Residential Care Services: Rehabilitation Service

Children's Facilities (19) (20)

Home Occupation (21)

Industrial Use Group

Craftwork

General Manufacturing (22)

Perishable Goods Manufacturing: limited to baked

goods and confectionery products manufacturing only (22)

Precision Manufacturing (22)

Primary Manufacturing (22)

Salvaging or Recycling (23)

Perishable Goods Manufacturing (24)

Microbrewery

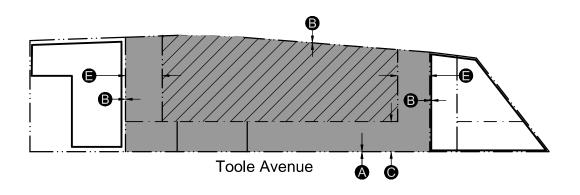
Typical notes:

(1) Permitted uses shall be consistent with the definitions as established by the City of Tucson Land Use Code

(2) Uses that are similar in nature and intensity to the uses expressly permitted in the Downtown Links District may be permitted as Special Exception land uses if approved through a Special Exception Land Use Procedure (LUC Section 5.3.9.2.A, Approval of the Development Services Director.

- (1) Reserved.
- (2) Circuses, carnivals, or tent shows are not allowed.
- (3) Drive-through services are not allowed.
- (4) Non-chartered financial institution facilities, such as payday loan facilities are not allowed.
- (5) Drive-in or drive-through restaurants are not allowed.
- (6) Soup kitchens are not allowed.
- (7) Blood donor centers are not allowed.
- (8) Reserved.
- (9) The use is limited to public transit stops.
- (10) Strip hotels are not allowed. Hotels shall not provide individual room access from the exterior of the building.
- (11) Reserved
- (12) Display or storage of fertilizer, manure, or other odorous material is not allowed.
- (13) Gas stations are not allowed.
- (14) Motor vehicle sales is not allowed.
- (15) Vehicle parking shall be located in structure.
- (16) Large recreational establishments of more than 25,000 of floor area (including gross floor area and any outside areas providing service to the public) are not allowed.

- (17) Adequate measures shall be provided to assure the health, safety, and welfare of the occupants in relation to any industrial process, use, or storage carried out in the artist studio/residence or on adjacent properties. Additionally, appropriate building code occupancy separation shall be ensured. On-site sale of the artist's products, including occasional shows of the artist's works, are permitted secondary uses.
- (18) Care is permitted for a maximum of 20 residents.
- (19) Care is permitted for a maximum of 10 residents.
- (20) If licensing is required by the State of Arizona for the use, proof of such licensure shall be provided.
- (21) Permitted as an accessory land use to a Family Dwelling, excluding Day Care and Travelers' Accommodation, Lodging. A home occupation shall not create any nuisance, hazard, or other offensive condition, such as that resulting from noise, smoke, fumes, dust, odors, or other noxious emissions.
- (22) Permitted as an accessory land use to the Commercial Services and Retail Trade Use Groups, limited to 50% of the gross floor area.
- (23) Permitted as an accessory land use to religious, commercial services, retail trade use groups and educational use. Salvaging and Recycling is limited to recycling collection bins and to empty household product containers, such as, but not limited to, aluminum cans, glass and plastic bottles, and newspaper.
- (24) Permitted as an accessory land use to Alcoholic Beverage Service. The accessory land use is limited to the manufacturing of beer, "microbrewery," not exceeding 25% of the gross floor area or 1,000 square feet, whichever is less. The products manufactured on site are sold at retail on the premises



Key

---- Property Line

— · — Build-to Line⁽³⁾

Allowable Building Area- Low-Rise (1)

Allowable Building Area- Mid-Rise⁽²⁾

Building Placement Build-to Line (Dist. from Property Line) ⁽³⁾		
Setback (Dist. from P	roperty Line)	
Side Yard (Low-Rise) ⁽¹⁾	0'	B
Street Frontage (Mid-Rise) ⁽²⁾	40'	0
Rear Yard	0'	D
Side Yard (Mid-Rise) ⁽²⁾	20'	0

Notes

 Low-rise is defined here as buildings not exceeding 25'-0" or two stories.

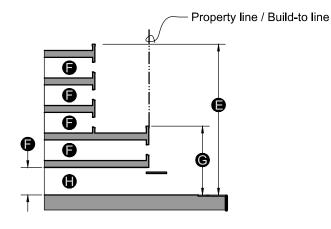
(2) Mid-Rise is defined here as buildings not exceeding 75'-0" or six stories.

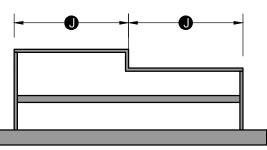
(3) At build-to lines 75% of new building frontage must be located at or near this line. Build-to line requirements apply only when shown and only when new building footprint exceeds 25% of site area. the purpose of the build-to line is to help define an urban street edge.

ellings
welling ⁽³⁾⁽⁴⁾⁽⁵⁾
en space ⁽⁶⁾

Notes

- (1) Covered by impervious surfaces (buildings, drives, parking, other)
- (2) At other than multi-unit residential
- (3) Usable open space does not need to be located on ground.
- (4) Usable open space may be any combination of private and common space.
- (5) Parking may not be counted as open space
- (6) Minimum landscape requirement applies only to common area open space.





Toole Avenue Frontage

Key —— Property Line

Height		
Building Max.	6 stories or 75'	Ø
First Floor Ceiling	12' min. clear	Ø
Low Rise Max	2 stories or 25'	©
Use		
Ground Floor	Commercial Services	•
	or Retail Uses	
	Encouraged	
Upper Floor(s)	Residential or Service	0
	encouraged	
Building Massing		

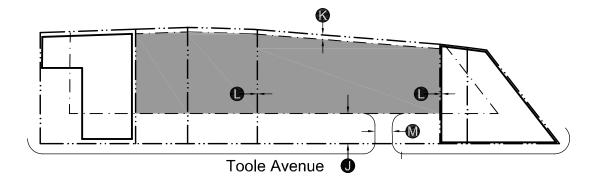
Max. Unbroken Building Mass 100'-0"

LC	bading a	ind Solid Waste
Lo	ading	
Loa	ding	As per land use group or class ⁽²⁾
Soli	id Waste	As per COT development standards $^{(3)}$
No	otes	
(1)	Any buildi	ng over 100' long must be broken down to
	read as a	series of buildings no longer than 100' and
	should inc	lude a variety of building heights.
(2)	Off-street	loading zone requirements may be reduced
	or waived	if Tucson Department of Transportation
	determine	s that no traffic safety issue is created.
(3)	On-site re	fuse collection container requirements
	governing	access, type, and location may be modified
	if the Depa	artment of Environmental Services determines
	that no pu	blic health or traffic safety issue is created.

Landscaping and Screening Notes

A complete or partial exception to Landscaping and Screening Requirements (Sec.3.7) may be granted when shade is provided for pedestrians and customers, such as along sidewalks, pedestrian circulation paths, and outdoor patios, consistent with Development Standard 9-10.4.3.B.1 (Pedestrian Pathways in the RND).

O



Key —··— Property Line

🔲 Allowable Parking Area

Parking		
Location (Distance from Property Line)		
Street Setback	30'	
Right of Way Setback	5'	
Side Setback	0'	
Required Spaces		
Off-street	No off-street parking req'd $^{(3)}$	
Accessible	As per underlying reqs. (1)(2)	
Bicycle Facilities	See note #4 ⁽¹⁾	
Notes		
(1) Shall not be reduced	or eliminated and shall be based	

- Shall not be reduced or eliminated and shall be based on the number of motor vehicle parking spaces required prior to any modifications.
- (2) May be provided 1) on-site, 2) off-site within onequarter of a mile of project site through a shared parking agreement, or 3) on-street on the same side of the street up to five spaces.

Parking Notes (continued)

- (3) When automobile parking is reduced below that required by the underlying zone, each development must mitigate the need for parking by providing (1) additional class one bicycle space for every (2) parking spaces omitted. These spaces are in addition to any bicycle parking required by the LUC based on land use group or class. Bicycle lockers are not permitted.
- (4) Parking drive shall be increased where required to provide fire access lane and shall meet requirements of the TFD.

Parking Drive Width

15' Max. ⁽⁴⁾

 \mathbf{M}



The intent of this zone is to allow for and encourage high density infill of the warehouse triangle with transit oriented and mixed-use development. The DL-AZ will go further than the infill incentive district in granting development flexibility and incentives in many areas. Residential uses will be allowed in current I-1 zone, allowable building heights and densities will be increased and developments will be exempt from parking requirements.

REGULATING PLAN Warehouse Triangle Subdistrict



Key

.

Property line

Unlisted existing building

🖬 I 🛲 I 🛲 Subdistrict Line

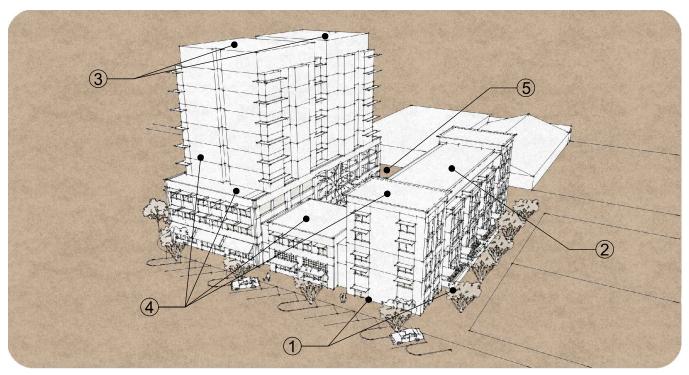
- \boxtimes Listed or eligible building ⁽¹⁾
- Future Downtown Links roadway ⁽²⁾

Zoning Districts

Warehouse Triangle subdistrict

Notes

- (1) Use of the DLD zoning option is intended to be compatible with historic preservation. Any action that has a "negative impact" on historic properties will disqualify the use of the DLD zoning option for that site. See Review and Approval Procedures, paragraph 5, page 6. The maps included in this document attempt to show the "contributing" or "eligible" properties from information available in May of 2012. For purposes of the use of DLD zoning option, it is the responsibility of each applicant for this zoning option to verify the current contributing or eligibility status of the property in question.
- (2) Development under Downtown links District (UOD #1) is prohibited within the R.O.W. of the future Downtown Links roadway project. Preliminary location of the future R.O.W. is shown here - review with COT DSD staff at time of initial planning.



Illustrative example of buildings in the Warehouse Triangle Area

Standards Summary

- (1) Zero lot line and build to requirements.
- (2) Residential allowed in current I-1 zone.
- (3) Building heights allowed up to ten stories.
- (4) Building massing scaled to context and variety of form encouraged.
- (5) No on-site parking required and no surface parking permitted.

Land Use Type

Commercial Services Use Group

Administrative and Professional Office

Alcoholic Beverage Service

Day Care

Entertainment (2)

Financial Services (3) (4)

Food Service (5) (6)

Medical Service - Outpatient (7)

Parking (8)

Personal Service

Technical Service

Trade Service and Repair, Minor

Transportation Service, Land Carrier (9)

Travelers Accommodation, Lodging (10)

Research and Product Development, but only of a

scientific, non-industrial nature

Animal Services, provided that the use is entirely contained

in the interior of the pertinent building (and not in any yard

or patio

Retail Trade Use Group

Food and Beverage Sales (3)

General Merchandise Sales (3) (12) (13) (14)

Vehicle Rental (15)

Civic Use Group

Civic Assembly

Cultural Use

Educational Use: Postsecondary Institution and

Instructional School

Membership Organization

Postal Service

Religious Use

Protective Services

Recreation Use Group

Recreation (16)

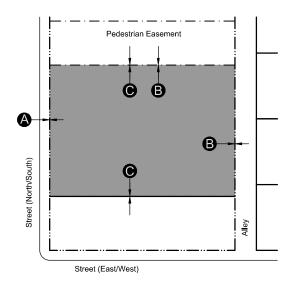
Residential Use Group
Family Dwelling
Group Dwelling
Artist Studio / Residence (17)
Residential Care Services: Adult Care Service
or Physical and Behavioral Health Service (18) (20)
Residential Care Services: Rehabilitation Service
Children's Facilities (19) (20)
Home Occupation (21)
Industrial Use Group
Craftwork
General Manufacturing (22)
Perishable Goods Manufacturing: limited to baked
goods and confectionery products manufacturing only (22)
Precision Manufacturing (22)
Primary Manufacturing (22)
Salvaging or Recycling (23)
Perishable Goods Manufacturing (24)
Microbrewery
Typical notes:

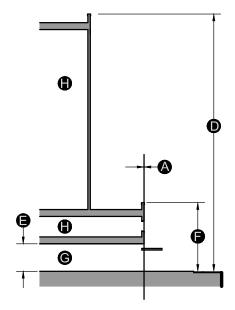
(1) Permitted uses shall be consistent with the definitions as established by the City of Tucson Land Use Code

(2) Uses that are similar in nature and intensity to the uses expressly permitted in the Downtown Links District may be permitted as Special Exception land uses if approved through a Special Exception Land Use Procedure (LUC Section 5.3.9.2.A, Approval of the Development Services Director.

- (1) Reserved.
- (2) Circuses, carnivals, or tent shows are not allowed.
- (3) Drive-through services are not allowed.
- (4) Non-chartered financial institution facilities, such as payday loan facilities are not allowed.
- (5) Drive-in or drive-through restaurants are not allowed.
- (6) Soup kitchens are not allowed.
- (7) Blood donor centers are not allowed.
- (8) Surface parking lots are not allowed. Only in-structure parking is permitted.
- (9) The use is limited to public transit stops.
- (10) Strip hotels are not allowed. Hotels shall not provide individual room access from the exterior of the building.
- (11) Reserved
- (12) Display or storage of fertilizer, manure, or other odorous material is not allowed.
- (13) Gas stations are not allowed.
- (14) Motor vehicle sales is not allowed.
- (15) Vehicle parking for use shall be located in structure.
- (16) Large recreational establishments of more than 25,000 of floor area (including gross floor area and any outside areas providing service to the public) are not allowed.

- (17) Adequate measures shall be provided to assure the health, safety, and welfare of the occupants in relation to any industrial process, use, or storage carried out in the artist studio/residence or on adjacent properties. Additionally, appropriate building code occupancy separation shall be ensured. On-site sale of the artist's products, including occasional shows of the artist's works, are permitted secondary uses.
- (18) Care is permitted for a maximum of 20 residents.
- (19) Care is permitted for a maximum of 10 residents.
- (20) If licensing is required by the State of Arizona for the use, proof of such licensure shall be provided.
- (21) Permitted as an accessory land use to a Family Dwelling, excluding Day Care and Travelers' Accommodation, Lodging. A home occupation shall not create any nuisance, hazard, or other offensive condition, such as that resulting from noise, smoke, fumes, dust, odors, or other noxious emissions.
- (22) Permitted as an accessory land use to the Commercial Services and Retail Trade Use Groups, limited to 50% of the gross floor area.
- (23) Permitted as an accessory land use to religious, commercial services, retail trade use groups and educational use. Salvaging and Recycling is limited to recycling collection bins and to empty household product containers, such as, but not limited to, aluminum cans, glass and plastic bottles, and newspaper.
- (24) Permitted as an accessory land use to Alcoholic Beverage Service. The accessory land use is limited to the manufacturing of beer, "microbrewery," not exceeding 25% of the gross floor area or 1,000 square feet, whichever is less. The products manufactured on site are sold at retail on the premises





Key

---- Property Line

Allowable Building Area

— · — Build-to Line ^{(2) (3)}

Building Placement Build-to Line (Dist. from Property Line) ⁽¹⁾		
Alley Side	0' ⁽³⁾	B
Pedestrian Easement	0' ⁽³⁾	B
Setback (Dist. from	n Property Lir	ıe)
Sideyard	0'	

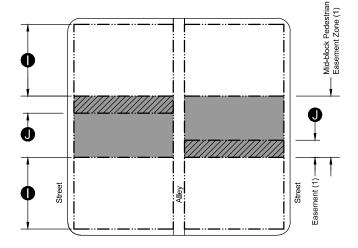
Notes

- (1) Build-to requirements apply to N/S street frontage when building footprint exceeds 25% of lot area. To E/W street frontage when building footprint exceeds 50% of lot area, and alley frontage when footprint exceeds 75% of footprint of lot.
- (2) Street side facades shall be built to BTL at 75% of new building frontage minimum, to help define an urban street frontage, where build-to requirements apply. ⁽¹⁾
- (3) Alley and pedestrian easement sides facade shall be built to build-to-line @ 50% of new building frontage minimum, to help define an urban edge to property, where required. ⁽¹⁾

10 stories or 120' ^{(1) (2)}	D
12' min. clear	9
25'	Ð
	12' min. clear

(1) No more than 10 stories and no more than 120' typical but note that within the West University sub-district building height shall be per the underlying zone. (see sheet 2-2)

Use		
Ground Floor	Commercial services or retail uses encouraged	C
Upper Floor(s)	Residential or Service	0
	encouraged	



Key

---- Property Line

Pedestrian Easement Zone

Pedestrian Easement

Open Space Pedestrian Easement ⁽¹⁾

Max. Distance from Street	125'	0
Min. Width	30'	0
Lot Coverage		
Max. Lot Coverage	100% ⁽²⁾	

Max. Lot Coverage Min. Landscape Area

0%⁽³⁾

Open Space at Multi-unit Dwellings

Open Space	30 SF / Dwelling ⁽⁴⁾⁽⁵⁾⁽⁶⁾
Min. Landscape Area	50% of open space

Notes

(1) Projects that develop 50% or more of the land area within the Mid-block Pedestrian Easement Zone (see map/plan above) shall set aside and develop a mid-block pedestrian passage and easement.

- (2) Covered by impervious surfaces (buildings, drives, parking, other)
- (3) At other than multi-unit residentail

Open Space

Notes (continued)

- (4) Usable open space does not need to be located on on ground.
- (5) Usable open space may be any combination of private and common space.
- (6) Parking may not be counted as open space

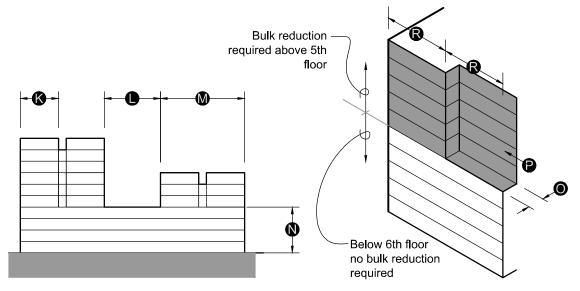
Loading and Solid Waste		
Loading		
Loading	As per Land Use Group or Class $^{(1)}$	
Solid Waste	As per COT Development Standards ⁽²⁾	
Notes		
(1) Off-street	1) Off-street loading zone requirements may be reduced	

or waived if TDOT determines that no traffic safety issue is created. (2) On-site refuse collection container requirements

governing access, type, and location may be modified if the Department of Environmental Services determines that no public health or traffic safety issue is created.

Landscaping and Screening Notes

A complete or partial exception to Landscaping and Screening Requirements (Sec.3.7) may be granted when shade is provided for pedestrians and customers, such as along sidewalks, pedestrian circulation paths, and outdoor patios, consistent with Development Standard 9-10.4.3.B.1 (Pedestrian Pathways in the RND).



Bulk reduction zone above 5th floor - 12'-0" minimum step back required for 50% of facade min

Max. unbroken bldg. mass	50' ⁽¹⁾	K
View Corridors		
Low rise facade	25% min ⁽²⁾	C
High rise facade	150 LF max. unbroken ⁽³⁾	M
Low rise height	4 stories or 60' max. ⁽²⁾	N
Open Space at Mult	i-unit Dwellings	
Open Space	30 SF / Dwelling ⁽⁴⁾⁽⁵⁾⁽⁶⁾	
Min. Landscape Area	50% of open space $^{(7)}$	
Notes		

- read as a series of buildings no wider than 50', and should include a variety of building heights.
- (2) To preserve view corridors 25% of facade must be set aside as low rise, and shall not exceed four stories or 60 feet. On corner lots this requirement applies to one street only.
- (3) High rise facades of more than 150 continuous linear feet shall be broken by a low rise facade not exceeding 4 stories or 60 feet.

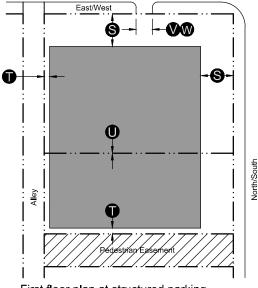
Building Massing

Bulk Reduction

0
P
R

Percentage of glass must be shaded between 10AM and 3PM from May through October

- (4) Usable open space does not need to be located on ground
- (5) Usable open space may be any combination of private and common space
- (6) Parking may not be counted as open space
- (7) Minimum landscape requirement applies only to common area open space.



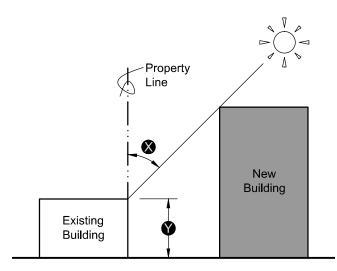
First floor plan at structured parking

Key —··— Property Line

Allowable Parking Area

Parking			
Location (Distance from Property Line) ⁽⁵⁾			
Street Setback	30'		
Ped. Easement Setback	5'		
Alley Setback	5'		
Side Setback	0'		
Required Spaces ⁽⁵⁾			
Off-street	No off-street parking req'd (5)(3)		
Accessible	As per underlying req's ⁽¹⁾⁽²⁾		
Bicycle Facilities	See note #1 and #4		
Notes			

- Shall not be reduced or eliminated and shall be based on the number of motor vehicle parking spaces required prior to any modifications.
- (2) May be provided 1) on-site, 2) off-site within onequarter of a mile of project site through a shared parking agreement, or 3) on-street on the same side of the street up to five spaces.
- (3) Note that developers of parcels within the Warehouse Triangle sub-district shall demonstrate no overflow parking into the West University Neighborhood or shall provide parking per the underlying zone.



Б	
	arking otes (continued)
(4)	When automobile parking is reduced below that required by the underlying zone, each development must mitigate the need to parking by providing (1) additional class one bicycle space for every (2) parking spaces omitted. These spaces are in addition to any bicycle parking required by the LUC based on land use group or class. Bicycle lockers are not permitted.
(5)	Surface parking allowed only under structure - no surface parking allowed
(6)	Heights of new buildings shall be limited such that no portion of new building will cast a shadow on the rooftop of any adjacent existing buildings at any time assuming a uniform 45° sun angle. on vacant adjacent lots a 20'-0" building height shall be assumed at property line.
(7)	Parking drive shall be increased where required to provide fire access lane and shall meet requirements of the TFD.
Par	king Drive Width 15' Max. ⁽⁷⁾
On	corner lots, parking drive shall not be located
on	primary street.
S	olar Access
Ang	gle of influence 45° (6)
Def	ault height of adjacent land 20' ⁽⁶⁾

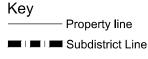
Fourth Avenue - Subdistrict Standards



The intent of this zone is to take advantage of the Modern Street Car project and promote medium-density infill transit-oriented development.

REGULATING PLAN Fourth Avenue Subdistrict





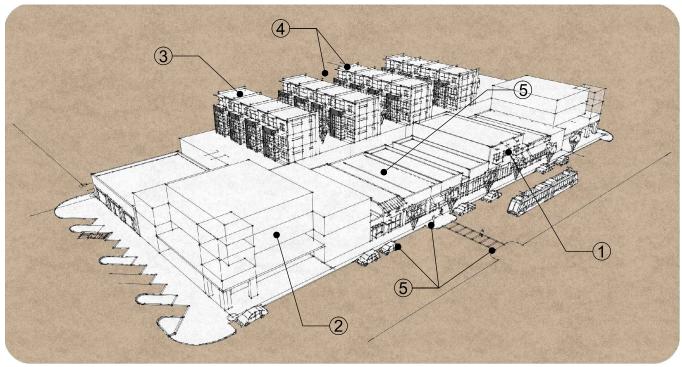
Unlisted existing building

Listed or eligible building ⁽¹⁾

Future Downtown Links roadway⁽²⁾

Notes

(1) Use of the DLD zoning option is intended to be compatible with historic preservation. Any action that has a "negative impact" on historic properties will disqualify the use of the DLD zoning option for that site. See Review and Approval Procedures, paragraph 5, page 6. The maps included in this document attempt to show the "contributing" or "eligible" properties from information available in May of 2012. For purposes of the use of DLD zoning option, it is the responsibility of each applicant for this zoning option to verify the current contributing or eligibility status of the property in question. (2) Development under the Downtown Links District (UOD#1) is prohibited within the R.O.W. of the future Downtown Links roadway project. Preliminary location of the future R.O.W. is shown here - review with COT DSD staff at time of initial planning.



Illustrative example of buildings in the Fourth Avenue area

Standards Summary

- (1) Protect historic structures.
- (2) Allow for (3) story development near intersections
- (3) Allow for up to (5) stories of development set back from 4th Avenue to respect historic structures.
- (4) New building massing compatible with context
- (5) First floor and street scape standards encourage pedestrian and bicycle friendly environment.

Land Use Type

Commercial Services Use Group

Administrative and Professional Office

Alcoholic Beverage Service

Day Care

Entertainment (2)

Financial Services (3) (4)

Food Service (5) (6)

Medical Service - Outpatient (7)

Personal Service

Technical Service

Trade Service and Repair, Minor

Transportation Service, Land Carrier (8)

Travelers Accommodation, Lodging (9)

Research and Product Development, but only of a

scientific, non-industrial nature

Animal Services, provided that the use is entirely contained

in the interior of the pertinent building (and not in any yard

or patio

Retail Trade Use Group

Food and Beverage Sales (3) (10)

General Merchandise Sales (3) (10) (12) (13)

Vehicle Rental (14)

Civic Use Group

Civic Assembly

Cultural Use

Educational Use: Postsecondary Institution and

Instructional School

Membership Organization

Postal Service

Religious Use

Protective Services

Recreation Use Group

Recreation (15)

Residential Use Group
Family Dwelling
Group Dwelling
Artist Studio / Residence (16)
Residential Care Services: Adult Care Service
or Physical and Behavioral Health Service (17) (19)
Residential Care Services: Rehabilitation Service
Home Occupation (20)
Microbrewery
Industrial Use Group
Craftwork
General Manufacturing (21)
Perishable Goods Manufacturing: limited to baked
goods and confectionery products manufacturing only (21)
Precision Manufacturing (21)
Primary Manufacturing (21)
Salvaging or Recycling (22)

Perishable Goods Manufacturing (23)

aidantial Usa C

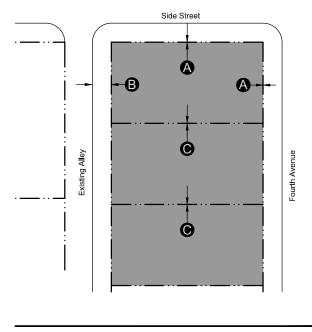
Typical notes:

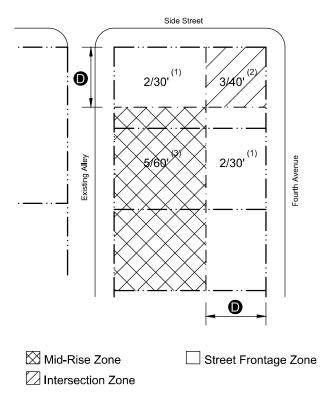
(1) Permitted uses shall be consistent with the definitions as established by the City of Tucson Land Use Code

(2) Uses that are similar in nature and intensity to the uses expressly permitted in the Downtown Links District may be permitted as Special Exception land uses if approved through a Special Exception Land Use Procedure (LUC Section 5.3.9.2.A, Approval of the Development Services Director.

- (1) Reserved
- (2) Circuses, carnivals, or tent shows are not allowed.
- (3) Drive-through services are not allowed.
- (4) Non-chartered financial institution facilities, such as payday loan facilities are not allowed.
- (5) Drive-in or drive-through restaurants are not allowed.
- (6) Soup kitchens are not allowed.
- (7) Blood donor centers are not allowed.
- (8) The use is limited to public transit stops.
- (9) Strip hotels are not allowed. Hotels shall not provide individual room access from the exterior of the building.
- (10) Reserved
- (11) Display or storage of fertilizer, manure, or other odorous material is not allowed.
- (12) Gas stations are not allowed.
- (13) Motor vehicle sales is not allowed.
- (14) Vehicle parking for use shall be located in structure.
- (15) Large recreational establishments of more than 25,000 of floor area (including gross floor area and any outside areas providing service to the public) are not allowed.

- (16) Adequate measures shall be provided to assure the health, safety, and welfare of the occupants in relation to any industrial process, use, or storage carried out in the artist studio/residence or on adjacent properties. Additionally, appropriate building code occupancy separation shall be ensured. On-site sale of the artist's products, including occasional shows of the artist's works, are permitted secondary uses.
- (17) Care is permitted for a maximum of 20 residents.
- (18) Reserved
- (19) If licensing is required by the State of Arizona for the use, proof of such licensure shall be provided.
- (20) Permitted as an accessory land use to a Family Dwelling, excluding Day Care and Travelers' Accommodation, Lodging. A home occupation shall not create any nuisance, hazard, or other offensive condition, such as that resulting from noise, smoke, fumes, dust, odors, or other noxious emissions.
- (21) Permitted as an accessory land use to the Commercial Services and Retail Trade Use Groups, limited to 50% of the gross floor area.
- (22) Permitted as an accessory land use to religious, commercial services, retail trade use groups and educational use. Salvaging and Recycling is limited to recycling collection bins and to empty household product containers, such as, but not limited to, aluminum cans, glass and plastic bottles, and newspaper.
- (23) Permitted as an accessory land use to Alcoholic Beverage Service. The accessory land use is limited to the manufacturing of beer, "microbrewery," not exceeding 25% of the gross floor area or 1,000 square feet, whichever is less. The products manufactured on site are sold at retail on the premises





Use		
Ground Floor	Commercial services	G
	or retail use encouraged	
Upper Floor(s)	Residential or Service	•
	encouraged	

Key

---- Property Line

Allowable Building Area

Building Placement

Setback

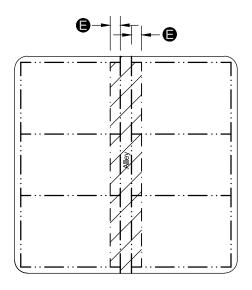
Street Side	0' or Prevailing	A
Alley Side	10'	B
Sideyard	0'	C
Midrise Setback	50'	D

Notes

 Building heights along street frontage is restricted to 2 stories or 30'-0" to respect scale of established and/or historic structures.

- Building heights may extend to 3-stories or 40'-0" within a 50'-0" x 50'-0" area at intersection.
- (3) Building heights may extend to 5-stories or 60'-0" at the rear of properties beginning at 50'-0" from property line.

Height	
Street Frontage Zone	30' / 2-Stories ⁽¹⁾
Intersection Zone	40' / 3-Stories ⁽²⁾
Mid-Rise Zone	60' / 5-Stories ⁽³⁾



Key

----- Property Line

0	pen Space		
Ре	destrian Easemen	t ⁽¹⁾	
Min	. Width	10'	€
Lo	t Coverage		_
Max	<. Lot Coverage	100% ⁽²⁾	_
Min	. Landscape Area	0% ⁽³⁾	_
Ор	en Space at Multi-	unit Dwellings	_
Оре	en Space	30 SF / Dwelling ⁽⁴⁾⁽⁵⁾⁽⁶⁾	_
Min	. Landscape Area	50% of open space $^{(1)}$	_
No	tes		_
(1)) Projects shall set aside and develop a pedestrian		_
	passage easement as part of alley		
(2)	Covered by impervious s	urfaces (buildings, drives,	_

parking, other)

(3) At other than multi-unit residential

Open Space Notes (continued)

- (4) Usable open space does not need to be located on on ground.
- (5) Usable open space may be any combination of private and common space.
- (6) Parking may not be counted as open space
- (7) Minimum landscape requirement applies only to common area open space

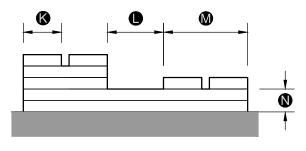
Loading and Solid Waste

Notes	
Solid Waste	As per COT development standards $^{(2)}$
Loading	As per land use group or class $^{(1)}$

- Off-street loading zone requirements may be reduced or waived if the Department of Transportation determines that no traffic safety issue is created.
- (2) On-site refuse collection container requirements governing access, type, and location may be modified if the Department of Environmental Services determines that no public health or traffic safety issue is created.

Landscaping and Screening Notes

A complete exemption to landscape and screening requirements (Sec. 3.7) shall be granted to developments that comply with the requirements of the streetscape standards of the DL-AZ

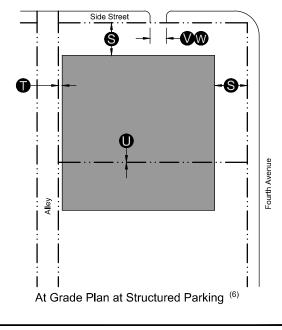


			_	
	uilding Massing			
	ticulation			
	x. unbroken bldg. mass	50' ⁽¹⁾	K	
Vi	ew Corridors			
Lov	v rise facade	25% min ⁽²⁾	0	
Mid	rise facade	150 LF max. unbroken ⁽³⁾	M	
Lov	v rise height	2 stories or 30' max. ⁽²⁾		
Op	oen Space at Multi	-unit Dwellings		
Op	en Space	30 SF / Dwelling $^{(4)(5)(6)}$		
Min	. Landscape Area	50% of open space $^{(7)}$		
Nc	otes			
(1)	Any building over 50' wide must be broken down to			
	read as a series of buildings no wider than 50', and			
	should include a variety of building heights.			
(2)	To preserve view corridors 25% of facade must be set			
	aside as low rise, and sh	nall not exceed two stories or		
	30 feet. On corner lots this requirement applies to one			
	street side only.			
(3)	Mid rise facades of more than 150 continuous linear			
	feet shall be broken by a low rise facade not exceeding			
	2 stories or 30 feet.			
(4)	Usable open space does	s not need to be located on		
. /	on ground.			
	~			

- (5) Usable open space may be any combination of private and common space.
- (6) Parking may not be counted as open space
- (7) Minimum landscape requirement applies only to common area open space

Solar Exposure Max. glass on east & west 50% of facade Min. shade on E & W glass 50%⁽¹⁾ Max. glass on north & south Unlimited Min. shade on N & S glass 0% Notes (1)

 Percentage of glass must be shaded between 10AM and 3PM from May through October



Key

---- Property Line

Allowable Parking Area

Pa	arking				
Lo	Location (Distance from Property Line)				
Stre	eet Setback	30'	6		
Alle	ey Setback	0'	Û		
Sid	e Setback	0'	Ū		
Re	equired Spaces ⁽⁶⁾				
Off-street		No off-street parking red	q'd		
Accessible		As per underlying req's	(1)(2)		
Bicycle Facilities		See note #3	(1)		
No	otes				
(1)	Shall not be reduced or eliminated and shall be based				
on the number of motor vehicle parking spaces re			quired		
	prior to any modificatior	IS.			
(2)	May be provided 1) on-site, 2) off-site within one-				

quarter of a mile of project site through a shared parking agreement, or 3) on-street on the same side of the street up to five spaces.

Parking

Notes (continued)

- (3) When automobile parking is reduced below that required by the underlying zone, each development must mitigate the need for parking by providing (1) additional class one bicycle space for every (2) parking spaces omitted. These spaces are in addition to any bicycle parking required by the LUC based on land use group or class. Bicycle lockers are not permitted.
- (4) Parking Drive Width 15' Max.⁽⁷⁾
- (5) Parking drive shall not be located on Fourth Avenue 🛛 🔿
- (6) Surface parking lots shall be prohibited. parking shall be allowed within structure with at-grade setbacks as shown
- (7) Parking drive shall be increased where required to provide fire access lane and shall meet requirements of the TFD.

V

Iron Horse Subdistrict Standards



Iron Horse Mixed Use Zone.

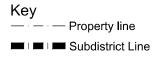
The intent of this zone is to promote transit oriented development that is compatible with the historic scale of Iron Horse Neighborhood, especially along ninth street. The most significant development incentive is an exemption from parking requirements.

Iron Horse Low Density Residential Zone.

The intent of this zone is to promote single family infill development at somewhat higher density, while protecting the historic character and privacy of existing properties. Key development incentives include reduction in minimum lot sizend reduction in parking.

REGULATING PLAN Iron Horse Subdistrict





Unlisted existing building

 \bigotimes Listed or eligible building ⁽¹⁾

Future Downtown Links roadway

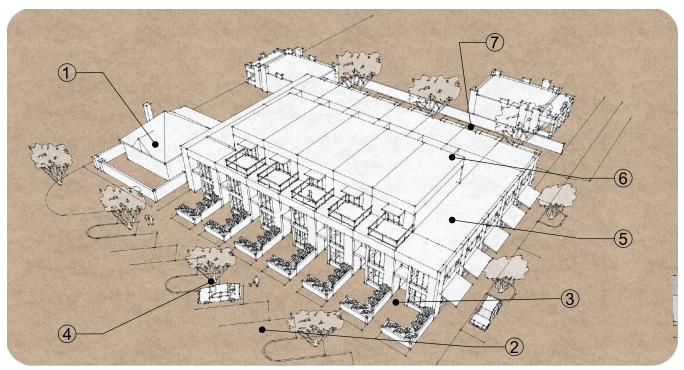
Zoning Districts

Iron Horse Low Density Residential Infill

Iron Horse Mixed-Use

Notes

(1) Use of the DLD zoning option is intended to be compatible with historic preservation. Any action that has a "negative impact" on historic properties will disqualify the use of the DLD zoning option for that site. See Review and Approval Procedures, paragraph 5, page 6. The maps included in this document attempt to show the "contributing" or "eligible" properties from information available in May of 2012. For purposes of the use of DLD zoning option, it is the responsibility of each applicant for this zoning option to verify the current contributing or eligibility status of the property in question.



Illustrative example of buildings in the Iron Horse mixed-use Area

Standards Summary

- (1) Modifications to historic structures that would reduce historic status are prohibited
- (2) New developments exempt from parking requirements streetscape standards allow for parking on street.
- (3) Prevailing setbacks respected at street frontage.
- (4) Streetscape standards to make developments pedestrian and bicycle friendly.
- (5) Two-Story allowed along perimeter.
- (6) Three-story allowed with setback from street and adjacent residential developments.
- (7) Surface parking allowed with setback from street no access drives from ninth street on corner lots.

Land Use Type

Commercial Services Use Group

Administrative and Professional Office*

Alcoholic Beverage Service*

Day Care*

Financial Services*

Food Service*

Personal Service*

Trade Service and Repair, Minor*

Travelers Accommodation, Lodging*

Research and Product Development, but only of a

scientific, non-industrial nature

Animal Services, provided that the use is entirely contained

in the interior of the pertinent building (not in any yard or patio)

Retail Trade Use Group

Food and Beverage Sales (Except Alcoholic Beverage Sales)

General Merchandise Sales (1) (6) (7) (8)*

Civic Use Group

Civic Assembly

Cultural Use

Postal Service

Religious Use

Protective Services

Recreation Use Group

Neighborhood Recreation (9)

Residential Use Group

Family Dwelling

Group Dwelling

Artist Studio / Residence (10)

Residential Care Services: Adult Care Service

or Physical and Behavioral Health Service (11) (12)*

Residential Care Services: Rehabilitation Service

Children's Facilities (11) (12)*

Home Occupation (13)

Industrial Use Group

Craftwork*

Perishable Goods Manufacturing: limited to baked

goods and confectionery products manufacturing only (14)*

Salvaging or Recycling (15)

Microbrewery

(1) Drive-through services are not allowed.

(2) Non-chartered financial institution facilities, such as payday loan facilities are not allowed.

 $(3) \ {\rm Drive-in} \ {\rm or} \ {\rm drive-through} \ {\rm restaurants} \ {\rm are} \ {\rm not} \ {\rm allowed}.$

(4) Soup kitchens are not allowed.

(5) Limited to bed & breakfasts only. Permitted for up to 20 guests for a maximum stay of 14 days. No more than 10 sleeping rooms may be used to accommodate guests. Meals may be served only to guests staying in the facility. Separate cooking facilities in guest rooms are prohibited.

(6) Display or storage of fertilizer, manure, or other odorous material is not allowed.

(7) Gas stations are not allowed.

(8) Motor vehicle sales is not allowed.

(9) In addition to the requirements of Chapter 6, Section 6-101, Outdoor Lighting Code, of the Tucson Code, any outdoor lighting utilized with the use shall be located and directed to eliminate glare toward streets and adjoining residential areas.

(10) Adequate measures shall be provided to assure the health, safety, and welfare of the occupants in relation to any industrial process, use, or storage carried out in the artist studio/residence or on adjacent properties. Appropriate building code occupancy separation shall be ensured. On-site sale of the artist's products, including occasional shows of the artist's works, are permitted secondary uses.

(11) Care is permitted for a maximum of 10 residents.

(12) If licensing is required by the State of Arizona for the use, proof of such licensure shall be provided.

(13) Permitted as an accessory land use to a Family Dwelling, excluding Day Care and Travelers' Accommodation, Lodging. A home occupation shall not create any nuisance, hazard, or other offensive condition, such as that resulting from noise, smoke, fumes, dust, odors, or other noxious emissions.

(14) Permitted as an accessory land use to the Commercial Services and Retail Trade Use Groups, limited to 50% of the gross floor area.

(15) Permitted as an accessory land use to religious, commercial services, and retail trade use groups. Salvaging and Recycling is limited to recycling collection bins and to empty household product containers, such as, but not limited to, aluminum cans, glass and plastic bottles, and newspaper.

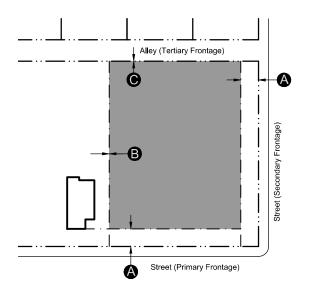
Typical notes:

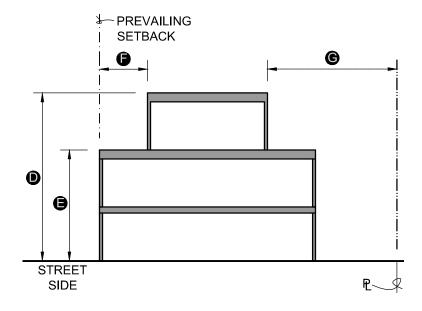
(a) Permitted uses shall be consistent with the definitions as established by the City of Tucson Land Use Code

(b) Uses that are similar in nature and intensity to the uses expressly permitted in the Downtown Links District may be permitted as Special Exception land uses if approved through a Special Exception Land Use Procedure (LUC Section 5.3.9.2.A, Approval of the Development Services Director

(c) All Land Uses are limited to 5,000 SF of gross floor area per business, except family dwelling and artist studio / residence

(d) * Limited to 9th Street only





Key

---- Property Line

- · - Setback Line

Building Placement Sethack (Dist_from Property Line)

Selback (DISL HOIII P	roperty Line)	
Street Side	Match prevailing ⁽²⁾	A
Side yard	0' ⁽²⁾	B
Rear yard	0' ⁽³⁾	C
Height		
Building Max.	3 stories or 40'	D
Street Frontage Height	25' ⁽²⁾	0
Interior Setback	12' ⁽²⁾	Ð
Setback from adj. Residential	25' ⁽²⁾	G

Allowable Building Area

Key

(1)

Property Line	Pedestrian Easement Zone
— · — Setback Line	Pedestrian Easement

100% (1)

0% (2)

Open Space

Lot Coverage

Max. Lot Coverage

Min. Landscape Area

Open Space at Multi-unit Dwellings

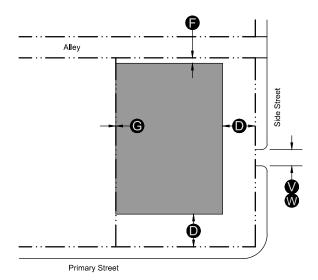
30 SF / Dwelling (3)(4)(5) Open Space 50% of open space ⁽⁶⁾ Min. Landscape Area

Notes

(1) Covered by impervious surfaces (buildings, drives,

parking, other)

- (2) At other than multi-unit residential
- (3) Usable open space does not need to be located on on ground.
- (4) Usable open space may be any combination of private and common space.
- (5) Parking may not be counted as open space
- (6) Minimum landscape requirement applies only to common area open space



Key

----- Property Line

Allowable Parking Area

Parking

Location (Distance from Property Line)			
Street Setback	30'	•	
Alley Setback	5'	0	
Side Setback	0'	0	
Required Space	S		
Off-street	No off-street parki	ng req'd	
Accessible	As per underlying req's (1)(2)		
Bicycle Facilities	See note # 1, and	#3	
Notes			

(1) Shall not be reduced or eliminated and shall be based on the number of motor vehicle parking spaces required prior to any modifications.

(2) May be provided 1) on-site, 2) off-site within onequarter of a mile of project site through a shared parking agreement, or 3) on-street on the same side of the street up to five spaces.

Parking

Notes (continued)

(3) If automobile parking is reduced or eliminated, each development must provide a number of class one bicycle spaces equal to one half of the required number of automobile parking spaces omitted. These spaces are in addition to any bicycle parking required by the LUC based on land use group or class. Bicycle lockers are not permitted.

Parking Drive Width	15' Max. ⁽³⁾	V
On corner lots, parking dr	rive shall not be located	
on primary street.		W

on primary street.

Landscaping and Screening Notes

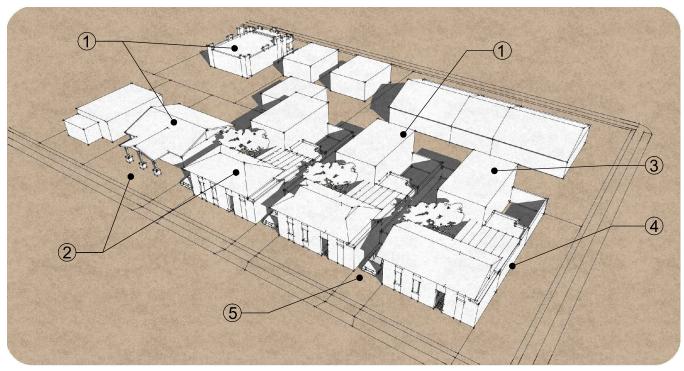
A complete or partial exception to Landscaping and Screening Requirements (Sec.3.7) may be granted when shade is provided for pedestrians and customers, such as along sidewalks, pedestrian circulation paths, and outdoor patios, consistent with Development Standard 9-10.4.3.B.1 (Pedestrian Pathways in the RND).

Loading and Solid Waste				
Loading				
Loading		As per land use group or class $^{(1)}$		
Sol	id Waste	As per COT development standards $^{(2)}$		
Notes				
(1)) Off-street loading zone requirements may be reduced			
	or waived if TDOT determines that no traffic safety			
	issue is created.			
(2)	On-site refuse collection container requirements			
	governing	access, type, and location may be modified		
	if the Department of Environmental Services determines			

that no public health or traffic safety issue is created.

(3) Parking drive shall be increased where required to provide fire access lane and shall meet requirements of the TFD.

Iron Horse Low Density Residential Infill Standards



Illustrative example of buildings in the Iron Horse low density residential infill area

Standards Summary

- (1) Modifications to historic structures that would reduce historic status are prohibited
- (2) Building heights and setbacks along street frontage respect historic context.
- (3) Two-Story allowed at rear of lot if privacy on adjacent properties is protected.
- (4) Minimum lot size reduced to 2,500 sf, lot coverage increased to 150%.
- (5) Parking requirement reduced to one car per dwelling unit.

Land Use Type

9th Street Frontage Only*

Civic Use Group

Civic Assembly

Cultural Use

Postal Service

Religious Use

Recreation Use Group

Neighborhood Recreation (1)

Residential Use Group

Family Dwelling

Artist Studio / Residence (2)

Home Occupation (3)

Industrial Use Group

Salvaging or Recycling (4)

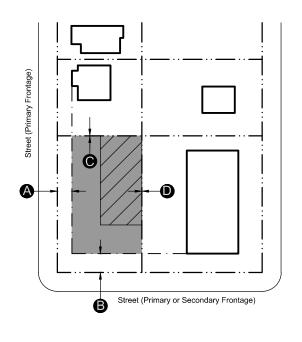
- In addition to the requirements of Chapter 6, Section 6-101, Outdoor Lighting Code, of the Tucson Code, any outdoor lighting utilized in conjunction with the use shall be located and directed so as to eliminate glare toward streets and adjoining residential areas.
- (2) Adequate measures shall be provided to assure the health, safety, and welfare of the occupants in relation to any industrial process, use, or storage carried out in the artist studio/residence or on adjacent properties. Additionally, appropriate building code occupancy separation shall be ensured. On-site sale of the artist's products, including occasional shows of the artist's works, are permitted secondary uses.
- (3) Permitted as an accessory land use to a Family Dwelling, excluding Day Care and Travelers' Accommodation, Lodging. A home occupation shall not create any nuisance, hazard, or other offensive condition, such as that resulting from noise, smoke, fumes, dust, odors, or other noxious emissions.

Permitted as an accessory land use to religious,) commercial services, and retail trade use groups.

(4) commercial services, and retail trade use groups. Salvaging and Recycling is limited to recycling collection bins and to empty household product containers, such as, but not limited to, aluminum cans, glass and plastic bottles, and newspaper.

Note: Permitted uses shall be consistent with the definitions as established by the City of Tucson Land Use Code

Iron Horse Low Density Residential Infill Standards





-..- Property Line

- - Prevailing Setback

Allowable Building Area

Existing Structures

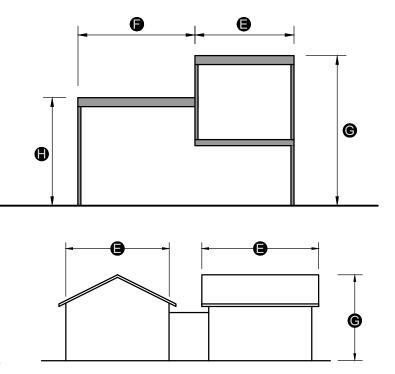
Building Placement Setback (Dist_from Property Line)

Setback (DISt. Hom Froperty Line)		
Primary Street ⁽¹⁾	Match Prevailing ⁽²⁾	A
Secondary Street	10' or Prevailing	B
Side yard	0'	C
Rear yard	0'	D

Notes

 Primary street is the street frontage to which dwellings face or are oriented.

(2) Match prevailing setbacks of existing historic structures adjacent to parcel or on same side of street of same block.



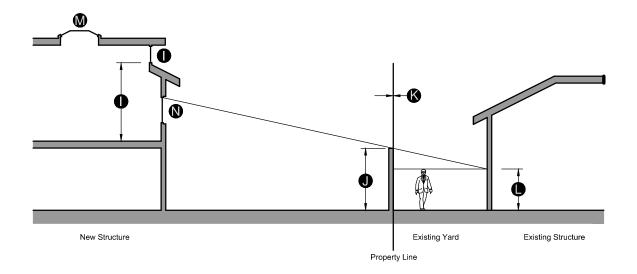
Building Massing		
Articulation		
Max. unbroken bldg. mass	30' ⁽¹⁾	8
Second Story Setback	20'	G
Height		
Building Max.	31'-4"	G
Street Frontage Max	20'	•

Notes

(1) Any building over 30' wide must be broken down to read as a series of buildings no wider than 30', and should include a variety of building heights and roof

100% ⁽²⁾
0% ⁽³⁾
2,500 SF

Iron Horse Sub-District Standards



Ρ	rivacy		
Cle	restory height	9' min above 2nd floor	0
Site	e wa ll height	9' max. ⁽¹⁾	O
Site	e wall setback	0' min. ⁽¹⁾	K
Privacy zone		6' ⁽²⁾	0
Nc	otes		
(1)	Brick or stuccoed concrete masonry site walls may		
	extend above Land Use Code requirements to 9'		
	but may require structural engineering and building		
	permits.		
(2)	Privacy shall be afforded to existing developed adjacent		
	rear or side yards by limiting second story fenestration.		
	The lower 6' of adjacent yards shall not be visible from		
	new second floor windows.		
(3)	Alternative means of day	/light may include:	
		Clerestory above 9'	0
		Skylights	M
		Translucent fixed glass	

Iron Horse Sub-District Standards

P P <td< th=""><th></th></td<>	
Key Property Line Prevailing Setback	_
Parking	
Location (Distance from Property Line)	
	0
Alley Setback 10' or Prevailing setback	
Side Setback 0'	P
Side Setback 0'	P
Required Spaces	_
Off-street One Space Per Dwelling Uni	it
Notes	—
Access to parking spaces may be by way of existing	_
alleys.	Q
	_

STREETSCAPE STANDARDS

Intent of this section

The future development of the <u>Downtown Links District</u> (<u>UOD #1</u>), depends in a large part on the development of infrastructure improvements in the area, especially related to streetscape and related public right-of-way improvements.

In the **Toole Avenue Sub-District**, streetscape standards will be governed by the existing <u>City of Tucson</u> <u>Development Standards</u> for streetscape, except for the stretch of Toole Avenue between Stone Avenue and 6th Avenue. This streetscape is governed by the *Tucson Historic Warehouse Arts District Master Plan*, May 2004.

In the Warehouse Triangle Sub-District, the 4th Avenue Sub-District and the Iron Horse Sub-District, for those developments opting for the <u>Downtown Links</u> <u>District (UOD#1)</u>, streetscape is governed by the map on page 5-1. 6th Avenue, 4th Avenue, 8th Street east of 3rd Avenue, 2nd Avenue and 1st Avenue are all governed by the existing <u>City of Tucson Development Standards</u> for streetscape. For the other areas highlighted on the map on page 5-1, the streetscape standard is defined by the typical Downtown Links streetscape plan shown on page 5-2. This streetscape includes back-in diagonal parking on one side, parallel parking on the other side, wide sidewalks, street trees and wide expansions of the sidewalk at corners.

Since development in this District is likely to proceed piecemeal, the development of this streetscape

infrastructure cannot realistically be developed section-by-section as individual developments occur. Instead, the City of Tucson will seek to develop large sections of streetscape as funds become available. The funds targeted for this infrastructure development flows from 2011 changes in the State of Arizona requirements for Impact Fees.

Quoting from recently passed State Law:

9-463.05. <u>Development fees; imposition by cities and</u> towns; infrastructure improvements plan; annual report; advisory committee; limitation on actions; definitions (L11, Ch. 243, sec. 1. Eff. 1/1/12)

A. A municipality may assess development fees to offset costs to the municipality associated with providing necessary public services to a development, including the costs of infrastructure, improvements, real property, engineering and architectural services, financing and professional services required for the preparation or revision of a development fee pursuant to this section, including the relevant portion of the infrastructure improvements plan.

B. Development fees assessed by a municipality under this section are subject to the following requirements:

B1. Development fees shall result in a beneficial use to the development.

B2. The municipality shall calculate the development fee based on the infrastructure improvements plan adopted

STREETSCAPE STANDARDS

Intent of this section

pursuant to this section.

B3. The development fee shall not exceed a proportionate share of the cost of necessary public services, based on service units, needed to provide necessary public services to the development.

· · · · · · •

B6. Any development for which a development fee has been paid is entitled to the use and benefit of the services for which the fee was imposed and is entitled to receive immediate service from any existing facility with available capacity to serve the new service units if the available capacity has not been reserved or pledged in connection with the construction or financing of the facility.

•••••

T7. "Necessary public service" means any of the following facilities that have a life expectancy of three or more years and that are owned and operated by or on behalf of the municipality:

(a) Water facilities, including the supply, transportation, treatment, purification and distribution of water, and any appurtenances for those facilities.

(b) Wastewater facilities, including collection, interception, transportation, treatment and disposal of wastewater, and any appurtenances for those facilities.

(c) Storm water, drainage and flood control facilities,including any appurtenances for those facilities.(d) Library facilities of up to ten thousand square feet that

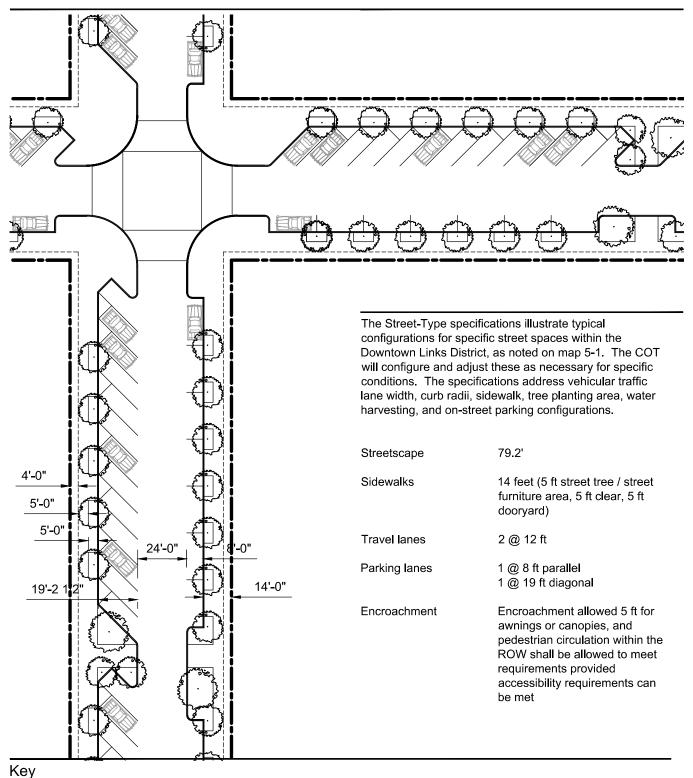
provide a direct benefit to development, not including equipment, vehicles or appurtenances. (e) Street facilities located in the service area, including arterial or collector streets or roads that have been designated on an officially adopted plan of the municipality, traffic signals and rights-of-way and improvements thereon.

.....

T9. "Service area" means any specified area within the boundaries of a municipality in which development will be served by necessary public services or facility expansions and within which a substantial nexus exists between the necessary public services or facility expansions and the development being served as prescribed in the infrastructure improvements plan.

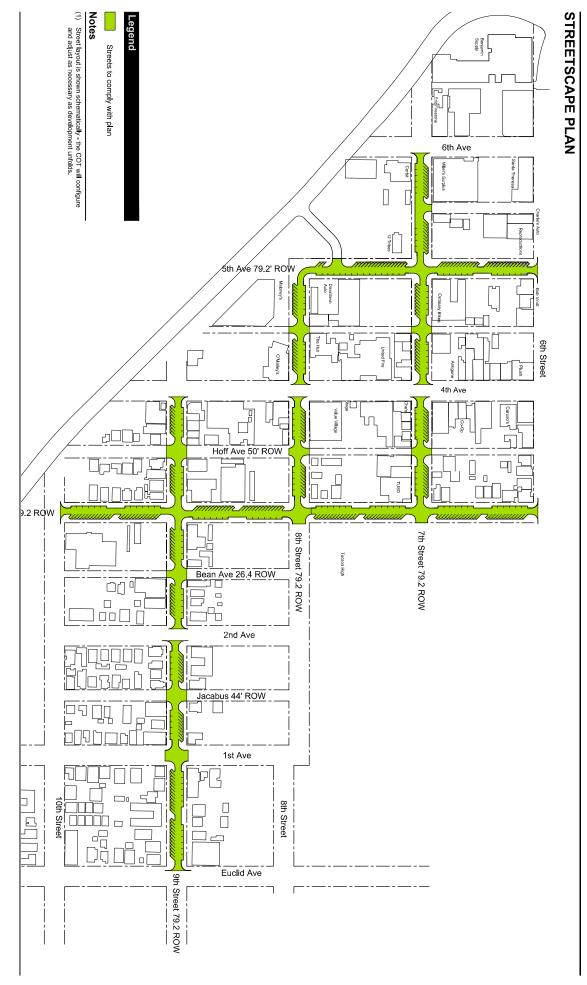
Based on these changes in State Law, it is proposed in this <u>City of Tucson Downtown Links District (UOD#1)</u>, that all City of Tucson Impact Fees (Development Fees) generated by development in the <u>Downtown Links District</u> (<u>UOD#1</u>) be expended in the Sub-District in which the development occurs, with first priority going to streetscape improvements. The City of Tucson, at its sole discretion, may choose to bond the full development of streetscape as shown on map 5-1 and drawing 5-2 and use revenue from Impact Fees (Development Fees) to repay the bonds.

STREETSCAPE STANDARDS Typical street plan



----- Property line

———— Dooryard

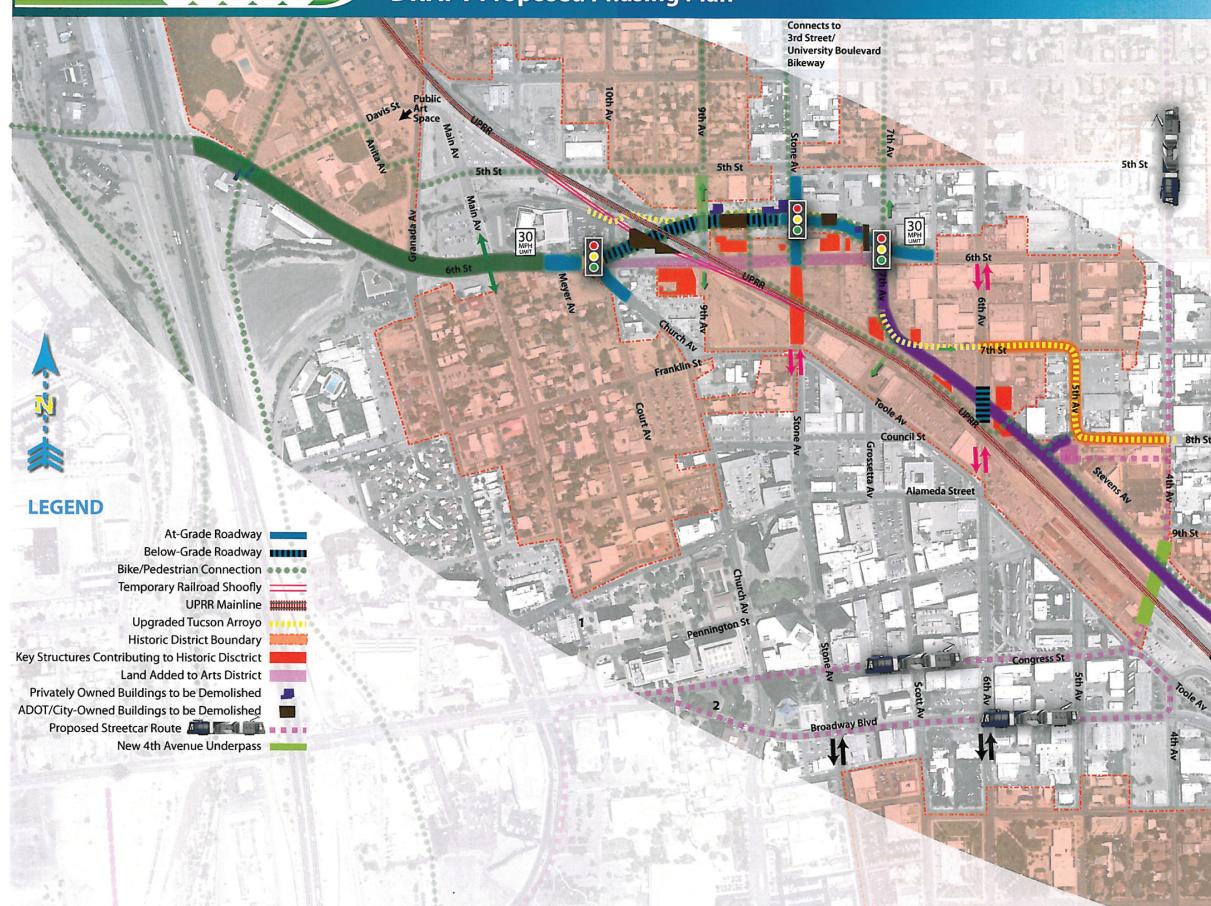


Downtown Links District (UOD #1) Poster Frost Mirto, Inc.

APPENDIX A.3

DOWNTOWN LINKS ROADWAY AND DRAINAGE PROJECT

DRAFT Proposed Phasing Plan



Project Manager: Shellie Ginn

downtown

Downtown Hotline: 520.622.9000

Project Website: www.downtownlinks.info



PROPOSED CONSTRUCTION PHASING



St. Mary's Segment (Spring 2010) 8th Street Segment (Spring 2010) Steven's Avenue Segment (Fall 2012) 6th Street Segment (Fall 2013)



Broadway Blvo Diamondback Bridge

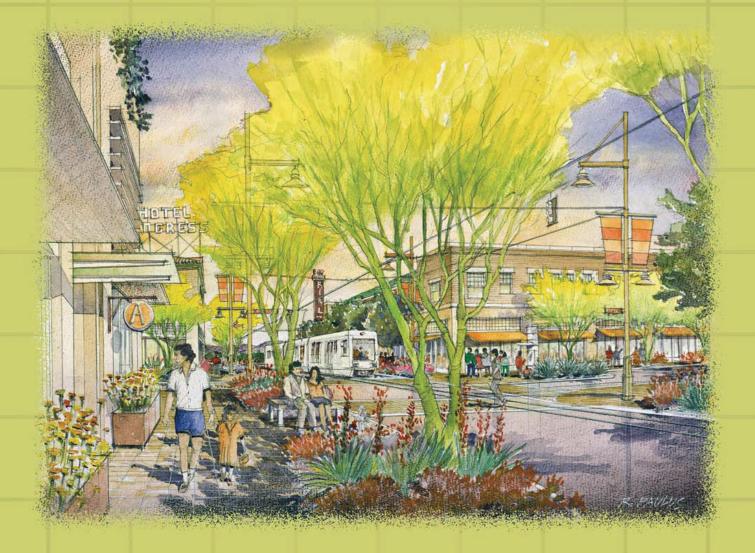


July 1, 2009

APPENDIX A.4

DOWNTOWN INFRASTRUCTURE PLAN, UNIVERSITY AREA PLAN, AND WEST UNIVERSITY PLAN

DOWNTOWN INFRASTRUCTURE STUDY



May 2007 Tucson Downtown Partnership

DOWNTOWN INFRASTRUCTURE STUDY

MAY 2007 TUCSON DOWNTOWN PARTNERSHIP

TABLE OF CONTENTS

INTRODUCTION	i
EXECUTIVE SUMMARY	iii
STUDY OVERVIEW	vii
Participants Methodology Study Area	
STUDY FINDINGS	
Underground Utilities Utilities Summary Pima County Wastewater Southwest Gas Corporation Stormwater (City Transportation) Tucson Electric Power Company (Unisource) Tucson Water	1
Information Technology City of Tucson Fiber Network Cox Communications, Inc. MCI Network Services (Parent Company Verizon), AT&T, McLeod USA and Valley Telephone Pima County Fiber Network Qwest Communications Other Telecommunications	
Transportation	34 35 36 37 39 40
Public Services Business Improvement District Tucson Fire Tucson Police Trash/Recycling Pick-up	45 48 49
Archaeological Services (City of Tucson)	53
Environmental Technical Services	
Green Space/Parks	57
Public Programs Downtown Area Infill Incentive District Façade Program Property Research Online	66 67
Tucson Convention Center/Arena	71
COST SUMMARY SPREADSHEET	
RECOMMENDATIONS AND NEXT STEPS	74
Appendices	

The future of Downtown Tucson faces at a critical crossroads that will determine its future success. For the past several years, a great amount of time and energy has been invested to lay the groundwork for downtown development, and the downtown area is poised to experience a positive transformation. This transformation is by no means assured, however. There remain a number of critical issues that need to be addressed in order to ensure the success of the downtown area.

Perhaps the single most important issue that will ensure successful downtown redevelopment is the provision of adequate infrastructure to support future uses. Without sufficient infrastructure to support downtown redevelopment, we will lose exciting opportunities because the costs for upgrading and/or extending utilities in the downtown area are too great for any one project to absorb.

To date, very little has been done to provide adequate infrastructure to meet the City's goals for a thriving and vital downtown. There is a great deal of uncertainty among current and potential developers as to the location and viability of current infrastructure services.

To solve this problem, the City of Tucson, Pima County, utility agencies and private sector representatives have jointly developed recommendations for infrastructure improvements. These recommendations identify the location and capacity of current infrastructure and provide a blueprint for infrastructure improvements necessary to support downtown development over the next twenty years.

What is "Infrastructure?"

In the context of downtown redevelopment and this study, the term "infrastructure" is used to mean the services and level of capital investment required to support a successful urban environment. Beyond the typical definition of infrastructure – supplying utility and transportation services for development – we include parks and open space, pedestrian/streetscape improvements, transit (rail/bus), public parking, and public services (fire/police/trash services, etc.), among others.

Dealing with infrastructure in an urban context is much more challenging than in a suburban or greenfield development scenario. Some of the challenges we face are:

- Aging facilities (streets/utilities) are near, at, or beyond their design life
- Information on level of existing services available and the locations of those services is incomplete (especially for underground utilities)
- It is difficult to predict or control the phasing of development in an urban setting (as opposed to a new suburban development where phasing and infrastructure delivery can be tightly controlled)
- Intensity of activity/traffic makes working in downtown areas difficult to coordinate/stage
- Streetscape and public space improvements designed specifically for downtown settings (e.g., paving, lighting, landscaping, signage, etc.) are hard to find with a durable, higher level of finish

- Multiple property owners/interests are involved in/affected by infrastructure decisions
- Physical space is insufficient to accommodate all uses/needs efficiently (e.g., right-ofway widths are fixed and usually are not expandable in a downtown setting)
- Additional costs to accommodate/mitigate challenges of infrastructure development in an urban setting

These challenges can be met with careful planning and diligence, and this report is intended to serve as a starting point for the planning, design, funding and implementation of infrastructure improvements in Downtown Tucson.

Study Principles

Underlying the recommendations of this report are a set of guiding principles that are critical to the ultimate success of any effort to implement infrastructure improvements in downtown Tucson. As projects progress in the downtown area, these three principles will help ensure that decisions on investment in infrastructure are made wisely.

- A. Infrastructure investment must be targeted to projects that make Downtown "Development Ready" – Ensure that the necessary infrastructure is in place to support downtown development as it occurs and to meet the public's goals of a thriving and vital downtown district. Emphasis should be placed on leveraging private investment to the greatest extent possible so that public investment provides the best possible economic return to the City.
- B. Infrastructure work must be fully coordinated with other efforts in the downtown area public and private. There are a number of infrastructure needs identified in this report streetscape, streetcar, utilities, parks, etc. that will require careful coordination. The City and the private sector need to work to ensure that there is a global, coordinated view of how downtown infrastructure is financed, designed, and constructed. The net benefit of this coordination is the minimization of construction impacts and the maximization of cost effectiveness and private investment leverage.
- C. Do it once, do it right. It is imperative that the improvements slated for downtown Tucson are of the highest quality. It is also critical that we do these improvements once. Downtown cannot afford – financially or otherwise – streets being torn open two or more times. A policy should be established of opening a street only once, with exceptions for minor utility service taps.

The future of Downtown Tucson is in our hands. Today's actions will transform the downtown area into the thriving and vital district that truly serves as everybody's neighborhood.

There will never be a better time than now to address one of the keys to unlocking downtown's potential: the planning, funding, design and construction of infrastructure improvements that support downtown redevelopment efforts. The end benefits of this process are many, and most significantly would include:

- Leverage of public investment For every \$1 of public money invested in downtown, it is conservatively anticipated that \$5 of private investment would be leveraged. This means new jobs, housing, revenues, and services within the downtown area.
- Development Ready Downtown investing in infrastructure downtown will create a downtown that is "Development Ready." A major factor which is currently inhibiting downtown development is the lack of certainty surrounding needed improvements, including the Modern Streetcar, utility services, and adequate public funding for critical infrastructure elements.
- Well-coordinated improvement efforts By designing and constructing various elements in a coordinated fashion, we can minimize construction impacts and maximize cost efficiency.
- Creation of a world-class urban environment We should not be shy about striving for a world-class urban environment in downtown Tucson. Investing in a high quality streetscape, open space, transit system, and storefront environments can help create a unique sense of place for Tucsonans and visitors alike.

Opportunities and Challenges

Developing and implementing infrastructure improvements in downtown settings generally and downtown Tucson specifically presents unique opportunities and challenges. Tucson is currently blessed with a number of tools and projects that, if properly utilized, can help quicken the pace of downtown development and provide a catalyst for the revitalization of downtown. The opportunities present in downtown Tucson that can and should be leveraged include:

- The Modern Streetcar project, which will traverse the entire downtown area and is scheduled for completion by 2010
- Transportation projects such as the Fourth Avenue Underpass and Downtown Links, which provide opportunities to enhance downtown access and tie in other needed improvements
- An involved and motivated development community that is ready to work with the City to ensure that needed improvements are put in place and downtown can be a successful environment
- Funding sources both public and private that can be tapped to help finance needed improvements and ensure the ongoing success of downtown

While these and other opportunities are present in downtown, there are also a number of challenges/issues that need to be addressed, including:

Lack of accurate as-built information for underground utilities within the downtown core

- Insufficient capacity of some infrastructure services to meet future development demands
- Lack of a clear plan for coordination of improvements within downtown Tucson or the prioritization and funding of critical infrastructure improvements
- No central point person at the City whose full-time job is to plan and implement downtown improvements and who has the authority to pull together/coordinate the various agencies working in downtown

Guiding Principles

In identifying opportunities and challenges, a set of guiding principles emerged to help formulate the recommendations and assist with future funding and prioritization decisions. These principles are:

- A. Infrastructure investment must be targeted to projects that make Downtown "Development Ready" – Ensure that the necessary infrastructure is in place to support downtown development as it occurs and to meet the public's goals of a thriving and vital downtown district. Emphasis should be placed on leveraging private investment to the greatest extent possible so that public investment provides the best possible economic return to the City.
- **B.** Infrastructure work must be fully coordinated with other efforts in the downtown area public and private. There are a number of infrastructure needs identified in this report streetscape, streetcar, utilities, parks, etc. that will require careful coordination. The City and the private sector need to work to ensure that there is a global, coordinated view of how downtown infrastructure is financed, designed, and constructed. The net benefit of this coordination is the minimization of construction impacts and the maximization of cost effectiveness and private investment leverage.
- C. Do it once, do it right. It is imperative that the improvements slated for downtown Tucson are of the highest quality. It is also critical that we do these improvements once. Downtown cannot afford – financially or otherwise – streets being torn open two or more times. A policy should be established of opening a street only once, with exceptions for minor utility service taps.

As work progresses on infrastructure development in downtown Tucson, these principles must guide our funding and work efforts.

COSTS AND FUNDING

It will take a significant commitment of financial resources – public and private - to make downtown "Development Ready." Ensuring that we can invest in downtown to meet these costs, however, will pay off in the long run through increased private investment in downtown Tucson and a downtown that Tucsonans can be proud of.

Financing the infrastructure for downtown will take equal parts creativity and commitment. It will likely take many years before this plan is substantially complete, but the positive impact of these investments will be felt immediately.

The costs for the proposed improvements – along with the general categorization of anticipated funding sources to meet these costs – are summarized below and broken down in greater detail later in the report. Estimated sources to fund this infrastructure are a combination of federal grants, state allocations, county bonds, Tax Increment Finance (TIF) funds, other local taxes, user fees, Highway User Revenue Funds (HURF), impact fees, and developer contributions.

		COSTS		Fl	JNDIN	IG		
		Total Cast to		Anticipated Funding Source				
	Total Cost to Upgrade			Agency	Public, Private & Other Sources			
Underground								
Utilities	\$	94,044,500	\$	54,290,000	\$	39,754,500		
Information								
Technology	\$	14,600,000	\$	2,300,000	\$	12,300,000		
Transportation	\$	15,000,000	\$	-	\$	15,000,000		
Parking	\$	303,100,000	\$	231,600,000	\$	71,500,000		
Streetscape	\$	107,160,344			\$	107,160,344		
Services	\$	1,368,300	\$	1,318,300	\$	50,000		
Archaeology	\$	3,302,000	\$	3,302,000	\$	-		
Environmental	\$	22,191,920	\$	22,191,920	\$	-		
Parks	\$	73,900,000	\$	66,100,000	\$	7,800,000		
Public Programs	\$	5,000,000	\$	-	\$	5,000,000		
Total	\$	639,667,064	\$	381,102,220	\$	258,564,844		

Recommendations

A series of recommendations for implementing this study are presented in this report. A number of critical recommendations are highlighted here, and can be found in greater detail in the Recommendations and Next Steps portion of the report. As intensive as this work process has been, there is still a great amount of work to do to fully plan, coordinate, and implement infrastructure improvements throughout the downtown core:

 Convene a working group comprised of City agencies, utility companies, and downtown interests to oversee the implementation of this report's recommendations.

- Hire a "Downtown Czar" to oversee the City's redevelopment efforts downtown, including the coordination of the City's various capital programs and overall direction of the various agencies involved in downtown.
- Build on past work/studies to create a set of streetscape standards for downtown streets that will ensure the consistency and quality of the public realm.
- Identify, fund, and implement a first phase streetscape project ("Pilot Project") at the east end of Congress Street that fully coordinates with the Fourth Avenue Underpass, future streetcar, and private development projects.
- Create a phasing plan for streetscape improvements that considers or accommodates other public projects and private development. Provide adequate funding from a variety of sources (public and private) to implement streetscape improvements consistent with the phasing plan.
- Design, fund and implement a façade improvement strategy to target and improve dilapidated storefronts in the downtown core.
- Coordinate work in the public rights-of-way (e.g., streetcar, Downtown Links, Fourth Avenue Underpass, etc.) with utility companies to ensure that necessary utility upgrades are provided concurrent with public works projects.
- Coordinate private development efforts and timelines with utility companies to ensure that utility services are available to meet current and future development needs in the downtown core.
- Create a free Wi-Fi zone in downtown.
- Identify what, if any, utility impacts are present along the streetcar alignment. Where
 relocation is necessary, ensure that utility relocations are consistent with future capacity
 needs for downtown.
- Identify other improvements (e.g., streetscape improvements, intersection improvements, etc.) that should be coordinated and timed to coincide with the Modern Streetcar to avoid future construction disruption.
- Identify potential open space opportunities in the downtown core and establish a funding plan to acquire and develop these spaces.
- Create a five year "sources and uses" funding plan for infrastructure development. The plan should include specific recommendations for funding sources by project and a cash flow by year. The plan should be updated annually to cover the next five year period and include new projects as funding allows.
- Creatively identify potential financing sources for infrastructure improvements. Utilize the City's ability to issue tax-exempt financing to stretch infrastructure dollars as far as possible.

PARTICIPANTS

Study Coordination	Tucson Downtown Partnership (TDP)
Consultants	GLHN Architects and Engineers HDR Engineering, Inc. Rob Paulus Architect
Private Utilities	Arizona Fiber AT&T Cox Communications, Inc. Level 3 Communications MCI/Verizon McLeod USA Qwest Communications, Inc. Southwest Gas Corporation Tucson Electric Power Company (Unisource)
Pima County	County Administrator Information Technology Wastewater
City of Tucson	City Manager Development Services Environmental Services Fire Information Technology Parks and Recreation ParkWise Police Rio Nuevo Transportation Tucson Convention Center Tucson Water Urban Planning & Design
State of Arizona	Arizona Department of Transportation
Other	Corps of Engineers/Floodplain Downtown Stakeholders Tucson Downtown Alliance (TDA) Tucson Downtown Merchants of TDA

METHODOLOGY

The information contained in the Downtown Infrastructure Study was the result of an intensive seven-week public-private collaborative process. More than 100 meetings were conducted between Tucson Downtown Partnership (TDP), City of Tucson, Pima County, Tucson Downtown Alliance, area utilities, and other area stakeholders.

GLHN Architects and Engineers (GLHN), a frequent consultant to the City of Tucson for infrastructure analysis, was subcontracted to perform a limited Downtown Utility Master Plan Study. Through face-to-face meetings with the City of Tucson, Pima County, and area utilities, an order of magnitude capacity study and cost estimates to correct deficiencies was obtained.

Utilizing a map and square footage estimates of downtown developments anticipated over the next twenty years, GLHN surveyed the area utilities to:

-Identify the current location, capacity and deficiencies in the downtown utility infrastructure system.

-Identify the type and size of infrastructure upgrades necessary to support a phased, twenty-year development horizon for the downtown area.

-Prepare a cost estimate for infrastructure improvements.

-Examine the most recent alignment of the modern streetcar for its impact on belowstreet utilities.

Follow-up meetings with the utilities addressed timelines for implementing these changes and methods for funding the improvements.

Rob Paulus Architect was retained to perform a detailed analysis of the existing area streetscape and to develop a cost estimate for bringing that streetscape up to competitive metropolitan standards. The firm conducted a comprehensive, block-by-block review of the downtown pedestrian environment. With the assistance of City of Tucson staff and area stakeholders, an extensive matrix of ideas for upgrading the downtown streetscape was developed.

City of Tucson staff, through a series of weekly meetings with the Tucson Downtown Partnership, provided information regarding transportation, police, fire, archaeology, environmental assessment, sanitation, parks, information technology, parking, façade improvements, and downtown development programs. Information on the modern streetcar was provided by City of Tucson Department of Transportation and HDR Consultants.

STUDY AREA

The Downtown Infrastructure Study project area is roughly bounded by Street Mary's Road/6th Street to the north, 4th Avenue/Barraza-Aviation Parkway to the east, 22nd Street to the south, and Mission Road/Grande Avenue to the west. For the exact study boundaries, please refer to the enclosed study area map.

As this study was primarily focused within the Rio Nuevo Tax Increment Finance District, the residential portions of Dunbar Springs, West University, Armory Park, Santa Rita, Santa Rosa, Barrio Viejo and Menlo Park were not surveyed. The mixed-commercial district situated north of West Congress Street and west of the Santa Cruz River Park was also not considered.

FINAL FOR UTILITY PROJECTIONS

	DOWNTOWN DEVELO	OPMENT & INFRASTRUCTURE PROJEC	Estimated Condo, R	Retail, Office, Other S	Space Quantities					
_			3/29/2007							
ŧ	Project	Developer	Acres	Bldg SF	Retail	Residential SqFt	Residential Units	Office	Other	
					33%		1000			
	Projects starting in 0-	1	,							
-1	44 Broadway I	Ron Schwabe	1.0	40,000	8,500	31,500	30			
-2	Carlos Arruza Block	City of Tucson	1.0	100,000	14,375	85,625	86			
-3	City/County Courts I	City of Tucson/Pima Co.	3.5	375,000					375,000	Court Building
-4	Cultural Plaza/Mission complex	City of Tucson	16.0	44,000					44,000	Museum/historic recreations
-5	Diamond Rock Plaza	HSL/Roger Karber	3.5	510,000	50,000	0	0	100,000	360,000	Excl existing 200 hotel rms
-6	Downtown Fire Station	City of Tucson	2.8	67,000					67,000	Fire station w/dorms for 14 firemen
-7	Julian Drew Block	Ross Rulney	1.0	64,375	8,810	38,543	48	8,810	8,212	Artist studio space
-8	Lofts on 5th Avenue	VantagePoint/Geo. Pilloton	2.0	120,000	28,750	91,250	91			
-9	Mercado District	Rio Development	14.0	400,000	100,000	300,000) 254			
10	MLK Block	WDD/City of Tucson	1.9	156,400	15,000	141,400	176			Excl existing 91 units @ MLK
-11	Presidio Terrace	Reliance/Peggy Noonan	1.2	134,500	4,200	130,300	120			
12	Rialto Block/Congress	Rialto/Biggers	0.6	38,886	16,964	13,000	13		8,922	Theatre
-13	Santa Rita Resort/Condo	Pathway Developments	2.4	211,871	24,601	99,150	95		88,120	Hotel
-14	The Post	Bourn Partners	0.5	78,850	10,000	68,850	47			
	Total acreage and	square footage starting in next 18 mos	51.3	2,340,882	281,199	999,619	960	108,810	951,254	
	Projects starting in 19	-36 mos								
i-1	200 Block	WDD	1.0	185,000	15,000	170,000	140			
-2	Arena	City of Tucson	5.8	300,000					300,000	
i-4	El Mirador	Town West/Jim Horvath	1.9	269975	66800	193175	5 150	10,000		
-5	La Placita	Bourn Partners	3.5	218,000	28,000			190,000		
i-6	Menlo Park 12-acres	City of Tucson	14.3	550,000	100,000	400,000	400	50,000		
6-7	Museum complex	City of Tucson	16.0	390,000					390,000	Museums
<u>-8</u>	Plaza Centro	Oasis/Jim Campbell	2.4	152,400	32,400	120,000	120			
6-9	Police Department TENTATIVE	City of Tucson	0.3	80,000					80,000	Crime Lab
-10	Rialto Block/Broadway	Rialto/Biggers	0.5	70,000	17,000	43,000	40	10,000		
	Ronstadt Transit Ctr	City of Tucson	2.0	135,025	45,000	25,000	25	20,000	45,000	Multiplex
-11		City of Tucson	1.4	63,000				52,000	11,000	Bus Stn
	Sixth Avenue & Toole	only of Fucsori					+ +	. ,	,	
6-11 6-12 6-13	Sixth Avenue & Toole TCC Expansion	City of Tucson	1.0	45,000					45,000	Meeting rms

FINAL FOR UTILITY PROJECTIONS

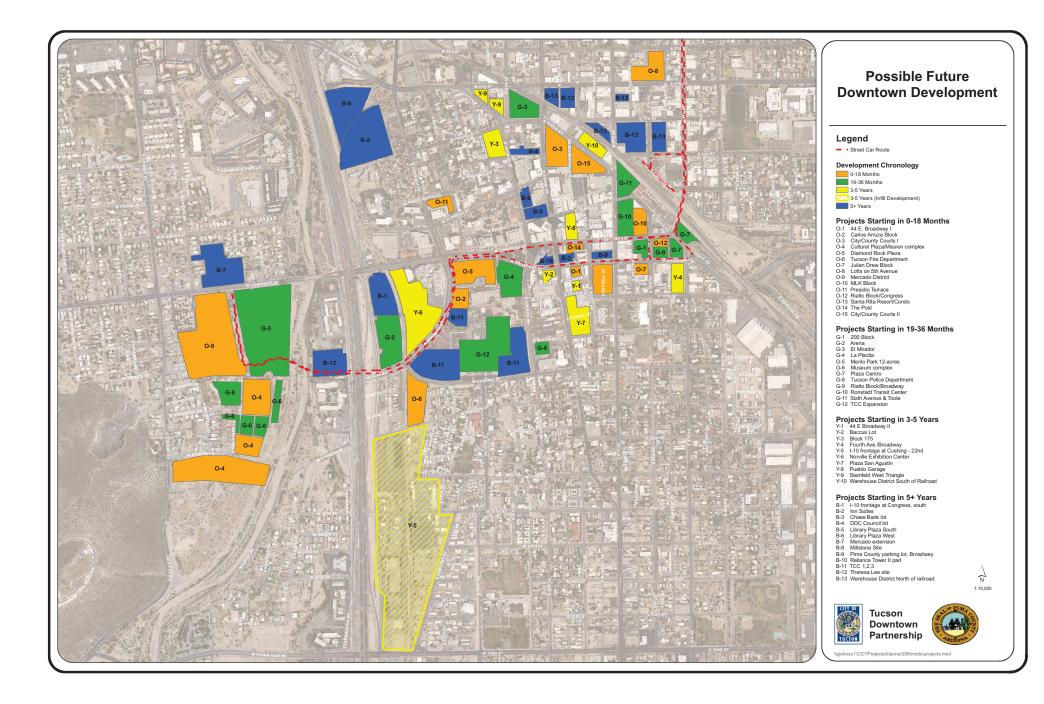
	DOWNTOWN DEVELO	DPMENT & INFRASTRUCTURE PROJEC any time Print Date =	Estimated Condo, F	Retail, Office, Other S	pace Quantities					
#	Project	Developer	3/29/2007	Bldg SF	Retail	Residential SqFt	Residential Units	Office	Other	
	Projects starting in 3-	5 yrs								
Y-1	44 E Broadway II	Ron Schwabe	0.3	90,000	15,000	50,000	50	25,000		
Y-2	Baccus Lot: Broadway/Sto	Buck Baccus	0.5	21,000				21,000		
Y-3	Block 175	DDC	2.2	200,000	31,625	168,375	168			
Y-4	Fourth Ave./Brdwy	Powell/Heller	1.2	100,000	8,000	72,000	72	20,000		
Y-5	I-10 frontage @ Cushing - 22nd	Private development	25.0	535,000	35,000	500,000	425			
Y-6	Norville Exhibition Ctr	Alan Norville/Eric Hutchens	3.0	200,000	43,124	0	0		156,876	Exhibit hall
Y-7	Plaza San Agustin	Private development	1.0	90,000	10,000	80,000	65			
Y-8	Pueblo Garage	Buck Baccus	1.3	80,000	14,375	65,625	66			
Y-9	Steinfeld West Triangle	Private development	1.1	80,000	14,375	30,000	30		35,625	Artists studios
Y-10	Warehouse District South of RR	City of Tucson/private development	3.6	200,000	15,000	40,000	40	20,000	125,000	Artists studios
	Total acreage and	square footage starting in 3-5 yrs	39.1	1,596,000	186,499	1,006,000	916	86,000	317,501	
	Projects starting after	5 yrs								
B-1	I-10 frontage @ Congress, se	Private development	5.7	80,000	75,000			5,000		
B-2	Inn Suites	Tucson St. Mary's Suite	6.0	345,000	50,000	295,000	295			
B-3	Chase Bank lot	Private development	0.2	50,000	10,000	40,000	40			
B-4	DDC Council lot	Private development	0.4	80,000	8,000	64,000	64	8,000		
B-5	Library Plaza South	City of Tucson	0.5	150,000	7,187	142,813	143			
B-6	Library Plaza West	Private development	0.3	100,000	10,000	90,000	90			
B-7	El Rio Center Redevelopment	Privatenonprofit development	6.6	500,000	20,000	50,000	50	100,000	330,000	Health services
B-8	Millstone Site	Joe Millstone	5.0	137,805	75,000	62,805	63			
B-9	Pima Co pkg lot @ B'way	Pima County	0.7	145,000	25,000	120,000	120			
B-10	Reliance Tower II pad	HUB Properties	0.5	150,000	8,000	71,000	71	71,000		
3-11	TCC parking lots	City of Tucson/Private development	12.7	400,000	150,000	150,000	150	60,000	40,000	Boutique hotel
3-12	Theresa Lee site	City of Tucson	2.7	100,000					100,000	Hotel
3-13	Warehouse District North of RR	Private development	6th&6th	100,000		100,000				Mixed infill
	Total acreage and	square footage starting after 5 years	25.8	2,337,805	438,187	1,185,618	1,186	244,000	470,000	
			400.00	0 700 007	4 040 000	4 4 4 9 4 4 9	2.020	770.040	0.000.755	
		OUT of PROJECTS LISTED	166.38	8,733,087	1,210,086	4,142,412	3,936	770,810	2,609,755	
_	Note: all data is estimated and s	ubject to verification hould be carefully considered. They ha								

Projects that are shaded should be carefully considered. They have utility service today. However, future development is anticipated to be substantially more intense on the lots.

Additional comments:

Total retail buildout is probably ambitious.

Total residential is probably on the low side.



UTILITIES SUMMARY

Tucson Downtown Partnership, via a contract with Bourn Partners, LLC, retained GLHN Architects and Engineers, Inc. to provide civil and electrical engineering services to perform a brief utility master plan for the downtown Tucson planning area. This effort projects existing and future utility loads and assesses the capacity of the selected utilities within the area defined by the 3/5/07 Tucson Downtown Partnership Downtown Development & Infrastructure Projections Map. The area defined by the yellow boundary on this map is referred to in this report as the "Downtown Tucson Planning Area."

The utilities examined are:

Water	Tucson Water
Sanitary Sewer	Pima County Wastewater
Storm Drain	Tucson Department of Transportation
Telephone	Qwest Communications
Power	Tucson Electric Power
Cable Television	Cox Communications
City of Tucson IT	COT Information Technology Communications Engineering
Pima County IT	PC Information Technology
Others	Level 3 Communications, Broadwing, Wiltel, AT&T, MCI/Verizon,
	McLeod, Union Pacific Railroad

The City has provided GLHN with utility maps for the first five utilities above; GLHN will obtain additional mapping for these utilities and others as requested and available. The City has also provided GLHN with existing and projected building sizes, occupancies, and locations within the defined downtown Tucson planning area.

The City's information for existing buildings of all types within the downtown Tucson boundaries is approximately 5.4 million square feet. The City's projected new construction over the entire planning period is approximately 8.8 million square feet, for a total building area of approximately 14.2 million square feet.

GLHN analyzed existing and future building loads against industry-typical consumption data, and projected existing and future utility requirements for electricity, potable water, sanitary sewer, and natural gas systems. The results of this analysis demonstrate the projected increase in load on the utility systems. The results are presented in aggregate, and for each major street affected by new development shown on the 3/5/07 Tucson Downtown Partnership Downtown Development & Infrastructure Projections Map.

GLHN has also included a discussion of the various Information Technology providers within the downtown Tucson planning area.

Note that the results presented in this utility capacity assessment are not the product of a detailed engineering effort, and are not a substitute for due diligence in design and construction. The capacity analyses are based only upon existing and future aggregate building information

provided by the City, and on industry-typical utility demand and consumption values on a square-foot of building space basis.

Cost opinions within the narratives for each utility are based upon GLHN experience with perlinear-foot cost for complete-in-place piping systems, and line-item breakdowns of materials, labor, and burdens are not provided. Costs have not been adjusted for inflation, and have not been escalated into the future.

Utility Relocations

Locations of all utilities, both above and below ground, are subject to change. Utility systems, particularly communications systems, expand and recombine rapidly. Public and private improvement projects require relocation of existing utilities. The new Justice Court/Municipal Court Complex, located southeast of the Stone Avenue/Toole Avenue intersection, will require vacation of two streets, with necessary relocation of a number of communications systems. Another project in the same area, Toole Avenue Undergrounding, from Stone to 6th Avenue, will also have impacts on aerial power and communications lines in this area. The user of this report should realize that the existing utility locations described in the text and shown on the maps provide a snapshot of the infrastructure at this moment in time.

PIMA COUNTY WASTEWATER

OVERVIEW

The existing sanitary sewer system is owned, operated, and maintained by the Pima County Wastewater Management Department (PCWMD). Most all of the existing sewers in the Downtown Tucson study area are located either within the public right-of-way, or sewer easements.

The downtown wastewater flows are all directed via gravity to interceptors ultimately going to the Roger Road Wastewater Treatment Facility (RRWTF). Roger is permitted at 41 million gallons per day (mgd) and is currently operating at 38 mgd. The estimated 3 to 5 year build-out for the downtown area has projected increased average wastewater flows of 1.1 mgd for dry weather and 3.5 mgd for peak wet weather.

Under the Pima County Regional Optimization Master Plan (ROMP), the Plant Interconnect Project is "funded and under way." When completed, this infrastructure will move flows from the RRWTF to the Ina Road Wastewater Treatment Plant. This will provide additional treatment capacity and allow a new Roger Road Treatment Plant to be constructed. Estimated completion of the Plant Interconnect Project is December 2010.

Although current treatment capacity is limited at the RRWTF, increased wastewater flows from the estimated 3 to 5 year downtown development should be accommodated.

PCWMD is performing a system wide condition assessment of sewer pipes (15" and smaller) and in the near future, better information on the condition of the sewers downtown will be available. A general recommendation is that as near term development occurs, the utility be contacted early for verification of flow capacity and infrastructure rehabilitation needs for specific individual development plans.

Age of Infrastructure

The system ranges in size from 6" collector lines, up to the 60" interceptor, which runs along El Paso Southwestern Avenue, located east of Interstate 10. Many of the sewers in the downtown area are very old (over 100 years in some cases). Although they function adequately, making new connections could be a challenge. A majority of the lines located within the study area are constructed of vitrified clay pipe (VCP) and date in age of 30 years or older. Wastewater industry pipe service life values range from 50 – 100 years depending on the type of material. VCP is known for having a long service life value and a 100 life for this type of sewer pipe is not uncommon. Sewers that are more than 60 years old will probably need to be rehabilitated prior to connection.

ASSESSMENT OF CAPACITY

Sewers are available to serve virtually all parcels within the downtown area. Where parcels do not have direct access, only a short extension will be required.

Most sewers have adequate capacity. There are some local bottlenecks and some downstream capacity issues. Since several trunk and interceptor sewers traverse downtown, capacity issues are influenced more by upstream development than by the proposed downtown developments.

Initial cost estimates for rehabilitation, abandonment, and augmentation for the associated development is \$3.5 million. It is expected that most of these costs would be covered under the Pima County Wastewater Management's Sewer Rehabilitation Program.

In addition, PCWMD has an additional 6,700 feet of sewer in their Sewer Rehabilitation Program for the downtown area over the next 10 years with an estimated cost of \$750,000. These costs will also be covered within the Department's Rehabilitation Budget.

STREETCAR ALIGNMENT

The following sewer lines were identified during the early stages of the streetcar project as being located underneath or in close proximity to the conceptual streetcar alignment. Rehabilitation and repair of sewer lines in these areas will be done in-situ, thereby limiting surface disturbance and costs. Potential conflict areas are:

Broadway Boulevard

 10" sanitary sewer in left curb lane from Pennington to footbridge (600' – 12" replacement) Estimated costs of \$335,000

Congress Street

- 12" sewer line in left curb lane on Congress between Broadway and 4th Avenue (300' 12" replacement) Estimated costs of \$167,000
- 8" sewer in left curb lane from 4th Avenue to Scott Avenue (1400' -8" replacement) Estimated costs of \$680,000

Granada Avenue

 15" sanitary sewer along west curb line in southbound travel lanes (650' – 15" replacement) Estimated costs of \$395,000

Manholes and Crossing Sewers

- There are a total of 48 sanitary sewer manholes within or near the modern streetcar alignment. Of the 48 manholes, 25 are assumed to need either adjustments or reconstruction. The cost for this item is \$125,000.
- A total of 14,700 feet of sewer cross the modern streetcar alignment. Adjustment of these sewers is estimated to cost \$ 1,740,000.

House Connection Sewers (HCS)

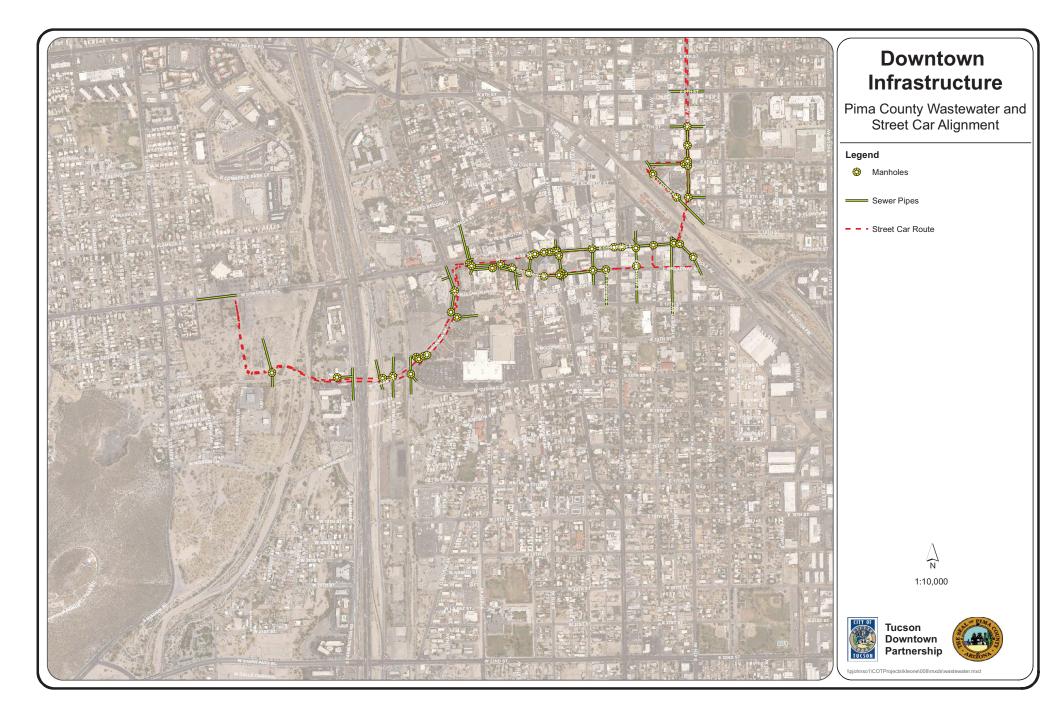
 It is expected that the Streetcar Project will install HCS taps from the public sewer to the private property line during construction. This will avoid cutting the pavement at a future date when construction takes place on a private parcel. These costs are estimated at \$100,000 and are the responsibility of the property owner or developer. The total cost for all sewer modifications within the modern streetcar route is \$3,542,000 (\$1,740,000 for rehabilitation and \$1,802,000 for relocation/augmentation.

COST & FUNDING

The total for all wastewater system upgrades required in the study area is \$7.8 million. A detailed engineering design is required to properly identify, separate and detail rehabilitation costs and relocation/augmentation costs. Little or no street excavation is expected with sewer rehabilitation since in-situ technology will be the primary methodology used. The City of Tucson or Developers pay for relocation and augmentation costs.

This sewer study is to serve as a "first pass" analysis and estimate for planning purposes. Costs for improvements outside the planning area are not included within this study.

	Total Cost	PCWMD Rehab Cost	Relocation/ Augmentation Cost
PCWMD Rehabilitation Plan for			
Downtown	\$ 750,000	\$ 750,000	\$ 0
New Development	\$ 3,500,000	\$ 2,400,000	\$ 1,100,000
Rehab/Augmentation			
Modern Streetcar Route	<u>\$ 3,542,000</u>	<u>\$ 1,740,000</u>	<u>\$ 1,802,000</u>
Total	\$ 7,792,000	\$ 4,890,000	\$ 2,902,000







SOUTHWEST GAS CORPORATION

OVERVIEW

Southwest Gas Corporation (Southwest) owns, operates, and maintains natural gas distribution facilities within the established boundaries of the study area. These facilities are comprised of mains, services, meter set assemblies and pressure regulator stations. Almost all main and service distribution pipes are below ground. Meter set assemblies and pressure regulator stations are above ground. Southwest is typically responsible for the installation of piping (including shading and bedding), valves, cathodic protection, and other distribution components. Developers typically pay the costs of excavation and backfill. New distribution piping is typically limited to 2" and 4" polyethylene.

Southwest has high pressure steel distribution main that extends through the study area along 19th Street, Main Avenue, and Granada Street. An El Paso Natural Gas delivery point located near 19th Street and Ochoa Lane serves this main. This steel main and several other El Paso Natural delivery points serve as sources of supply for many miles of distribution mains and services throughout the study area.

The majority of gas distribution main is located in City of Tucson right-of-way. Main on private property is located in dedicated easements. Rights of way and easements containing high pressure steel main and four inch diameter plastic main are critical to Southwest from the standpoint of supply routes. Within the Congress Street right of way, Southwest has very little main and no services. The gas service to the properties along Congress Street is provided from side streets and adjacent alleys.

AGE OF INFRASTRUCTURE

Southwest has consistently maintained and upgraded the distribution systems within the downtown area. An extensive replacement of early vintage pipe in the study area was performed in the late 1980s and 1990s, with the distribution system now comprised of high-density polyethylene mains and services. The high-pressure steel distribution main was installed in the late 1960s and 1970. A portion of it was replaced in 1987 to eliminate conflicts with construction of the Tucson Community Center. While the steel main is currently in good condition, consideration would be given to replacing the 1960s and 1970 vintage steel in conjunction with the downtown redevelopment.

ASSESSMENT OF CAPACITY

A system analysis has been performed utilizing the project list provided by the City. Based upon projections which have been provided, it has been determined that Southwest has a distribution system in place today within the study area boundaries which would require some minor main and regulator station installations/upgrades over the course of two to ten years at an estimated cost of approximately \$2 million dollars. These upgrades, to be performed in conjunction with development and right-of-way improvements, would improve the integrity and reliability of the existing distribution system.

Southwest does not currently have adequate capacity outside the scope of the study area to supply the total projected requirements for the downtown area. This would require significant upgrades to both Southwest's supply mains and regulation facilities, as well as upgrades to El Paso Natural Gas delivery points. Based upon the project list, it is anticipated the upgrades would need to be performed within the next two to ten years, and are estimated to cost approximately \$5 million dollars in order to support twenty years of growth. However, this value could change substantially depending on the actual future capacity requirements.

STREETCAR ALIGNMENT

The alignment of the modern streetcar has been reviewed to determine the potential impact on Southwest's facilities. It has been verbally reported to Southwest that the excavation depth for the installation of the rails and concrete base is typically 12 inches. Southwest's main and service facilities are typically installed at a minimum depth of 24 inches to a maximum depth of 40." Provided that there are no grade changes to the existing right-of-ways being utilized for the streetcar alignment, Southwest does not see any conflicts.

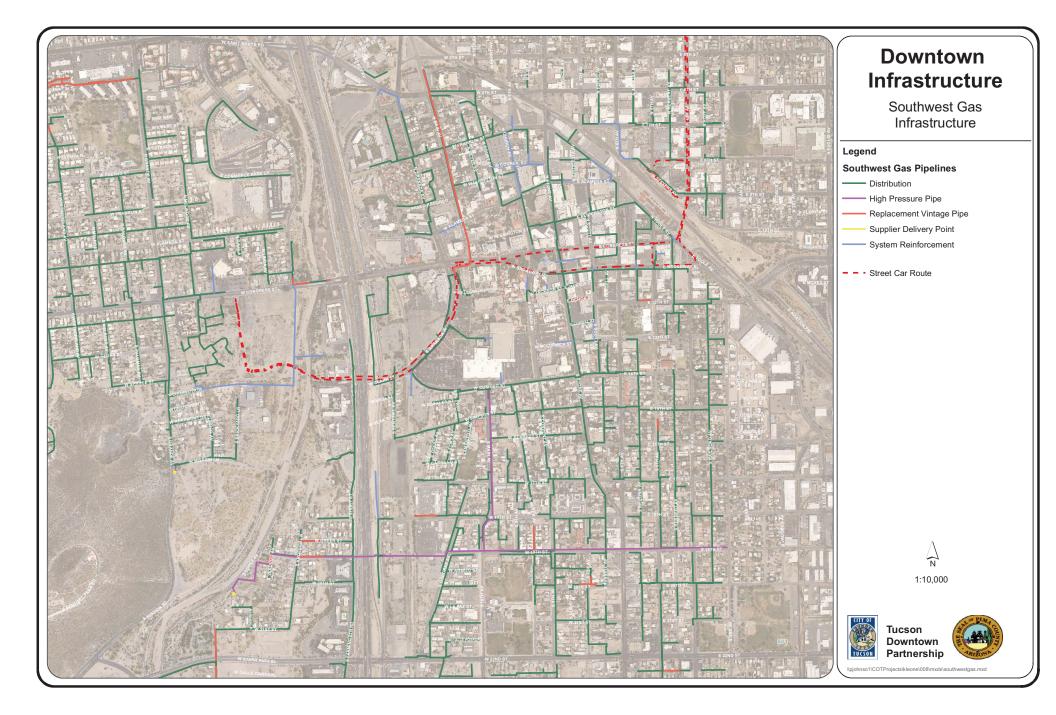
Southwest does have high pressure steel distribution main running parallel to and crossing the alignment in Granada Street, Congress Street, and Main Avenue. Cathodic protection mitigation measures would need to be installed by Southwest in these locations. Southwest would also perform depth verification of existing facilities in advance of the improvements. Replacement of 1960s vintage steel main near the intersection of Granada Street and Congress Street would be performed prior to the streetcar improvements.

COST & FUNDING

As noted above, a number of improvements to the natural gas infrastructure will be required to meet the projected needs of this project. The cost of natural gas infrastructure improvements that are required to resolve physical conflicts with planned improvements would be covered under Southwest's franchise agreement with the City of Tucson. The cost of natural gas infrastructure improvements that are made to accommodate the needs of this project but are not required to resolve physical conflicts would be paid for by the City of Tucson and/or by the individual developer(s).

The cost of improvements made outside of the study area to increase capacity within the downtown area would be paid for either by the City or the individual developer(s). The cost of improvements made within the individual parcels would be the responsibility of appropriate developer(s). This study did not address these individual parcel development costs since no detailed development plans are available at this time.

Service and main extensions for new business purposes are installed on the basis of economic feasibility. Typically, the costs of these improvements are paid to Southwest Gas in advance of construction as a refundable advance and/or non-refundable contribution. The procedures governing new business are defined in greater detail in Southwest's Arizona Gas Tariff No.7.



STORMWATER (CITY OF TUCSON)

OVERVIEW

The City of Tucson relies on a system of open channels, street flow, underground stormdrains, overland flow (sheet flow) and detention/retention basins for management of storm runoff. Underground stormdrains and public channels make up less than 50% of the conveyance distance for accumulated storm runoff in the study area.

The storm drainage system in most of Tucson is inadequate to convey runoff from fully developed properties. For this reason, a key component of the City's stormwater management plan is onsite stormwater retention requirements, applied to most new development within the City. In addition, Tucson City Code Sections 11-58 and 11-59 require property owners to convey existing runoff through their properties, with intake and discharge characteristics maintained to prevent adverse impacts on surrounding properties.

The Santa Cruz River runs north through the Study Area, separating the Cultural Plaza and Civic Plaza sites and acting as the outfall for all major stormdrain systems.

Two FEMA-delineated 100-year floodplains impact the study area. The 100-YEAR FEMA Floodplain for the Arroyo Chico wash (aka Tucson Arroyo) impacts all the properties north of Franklin and extends south, between Granada and Main, to one block north of Congress Avenue. The FEMA 100 year floodplain for the Santa Cruz River impacts the eastern portions of the Central Plaza site and the Tucson Origins site, as well as a small area between the Santa Cruz and I-10 at Simpson Street.

Flooding on the Arroyo Chico, including inadequate culvert capacity at I-10, should be corrected by the Corps of Engineers Park Avenue Detention Basins project. Design has been completed on this project, but funding has not been committed at this time.

100 Year Flood impacts along the Santa Cruz River can be eliminated by importing fill to raise the ground elevation.

Watershed	Area (acre)				
Tucson Arroyo	7045				
Downtown	200				
Cushing Street	326				
18 th Street	2306				
West Bank Santa Cruz River	150+				
A-Mountain Diversion Drain *	N/A				

Six watersheds contribute to runoff in the study area. These are:

* Spruce Street alignment to Santa Cruz River.

Age of Infrastructure

It is recommended that further input from TDOT regarding system condition of the existing facilities and the associated rehabilitation costs be determined. The age of the stormwater collection system in the study area ranges from 1966 to present, with a majority of the infrastructure installed in the mid 1970s to 1990. The expected service life of these structures is nominal value of 100 years prior to replacement or significant rehabilitation. Since the majority of existing infrastructure is less than 40 years in age; significant infrastructure replacement within the study planning period of 20 years is not anticipated.

ASSESSMENT OF CAPACITY

Limited input from TDOT regarding condition, capacity and relocation costs of storm drain facilities for the Downtown Development project was rendered within the relatively short time frame of data collection for the study. A capacity analysis for existing stormwater infrastructure was not performed, as well, because of limitations of this report. However, within this study new development square footages were added to the Building and Utility Model. The City's information for existing buildings of all types within the downtown Tucson boundaries is approximately 5.4 million square feet. The City's projected new construction over the entire planning period is approximately 8.8 million square feet, for a total building area of approximately 14.2 million square feet. Estimates pertaining to costs are preliminary level estimates only. Detailed engineering and hydrology studies will be necessary as site specific design and development occurs.

GLHN has performed a simplified capacity needs analysis for existing vs. fully developed conditions, provided at the end of this section.

A hydraulic model showing existing flows and projected future added flows was not performed because of costing and timing limitations of this report. Existing TDOT storm water information indicates an established grid and infrastructure of storm drains typical of an urban metropolitan area. Components include: Storm drains, manholes, bank protection, bridges and culverts, catch basins, grates and surface drainage features.

The existing stormwater system is not well developed in the north portion of the study area within the vicinity of 9th Avenue and the Stone Avenue underpass. Proposed improvements are scheduled including a proposed RCP 36" pipe system. A downtown development study area recommendation would be a future RCP system with street catch basins to collect drainage in the area bounded by Main, Franklin, Alameda and Stone Avenue and divert this to an outfall on Congress or Granada with existing storm drain capacity. This recommendation is primarily driven by the lack of existing storm water collection facilities in this portion of the study area. All future development in the study area shall be connected to the existing storm water collection system and use of on-site retention encouraged, if available space exists. Water harvesting techniques should be employed to minimize storm water run off potential as well as maximize the re-use potential of the storm water for landscape irrigation. Reference the City of Tucson Water Harvesting Guidance Manual, for commercial sites for direct application guidance for projects within the study area.

A key component to the City's Downtown Links Project is to correct drainage issues in this area associated with the Tucson Arroyo. The arroyo is undersized to handle all the drainage in the downtown area, which has been a long-standing problem that has resulted in key development

parcels remaining in the 100 year flood plain. Drainage work for the Downtown Links project will result in a new alignment for the arroyo and the replacement of the drainage structure in various locations. Seventy-six million dollars for Downtown Links has been included in the RTA plan, which specifically includes this drainage issue as part of the project. The project is currently in design. The project is programmed for construction in the RTA's second period, which begins in 2011. Cost to correct the Tucson Arroyo deficiencies is expected to be included in the Downtown Links budget.

TDOT's analysis indicates that on the west bank of the river, there is no effective drainage system and the Barrio Sin Nombre area and the Tucson Heritage Park area will have to intercept substantial off-site flows and create an effective drainage system. Plans have been developed to intercept the 'A' Mountain storm drainage across the Mission Gardens site as part of the Tucson Origins Heritage Park project. The cost for this work is included in the funding already allocated for Tucson Origins. Additional storm drains will be required in Grande Avenue extending north to the 'A' Mountain Storm Drain to alleviate flooding in the Barrio Sin Nombre neighborhood. This drainage work and other improvements are estimated at \$5 million as part of the Barrio Sin Nombre Streetscape Improvements.

Barrio Viejo, the Civic Plaza, and the Arena sites as well as the area around Tucson Police & Fire department buildings have inadequate storm drainage. In addition the Fire Central site is adjacent to the Cushing Simpson Wash which has inadequate capacity. The Clark Street Storm Drain Concept Design Report prepared by Tetra Tech, Inc., dated May 2004, has identified the need to reroute or install new concrete box culverts in the Civic Plaza area. Storm drain plans prepared by HDR Engineering, Inc., dated May 2005, have also identified the need for additional or replacement storm drains within or near the westbound frontage road of Interstate 10, near the Civic Plaza area. The additional stormwater mitigation required at the new Arena, TCC expansion project site is estimated at approximately \$3 million. The cost to upgrade the drainage system at the Cushing Simpson Wash is estimated at \$400,000 and is part of the \$5 million for the Barrio Viejo streetscape improvements.

The additional stormwater mitigation required at the new Arena, TCC expansion project site is estimated at approximately \$3 million.

STREETCAR ALIGNMENT

Streetcar utility conflicts have been preliminary identified by HDR Engineers in April, 2007. There are three potential conflicts noted:

Congress Street

 18" storm drain in left curb lane from Stone to Church Estimated costs to relocate \$87,500

Granada Avenue

- 30" storm drain within northbound lanes near TCC entrance, diagonal towards median
- Exist 10'x3' concrete box culvert at TCC entrance (perpendicular to Granada)

Estimated costs to relocate both of the above features: \$165,000

COST & FUNDING

The total for all stormwater system upgrades required in the study area as assessed by GLHN and City of Tucson Department of Transportation is \$13,252,000 million. TDOT notes that this

estimate addresses only a portion of the stormwater work needed in the downtown area. TDOT was unable to provide cost estimates for these additional improvement projects at the time of this report. The cost to resolve all of the existing drainage deficiencies in the downtown area may be substantially higher than the estimate for the specific development sites covered in this analysis.

GLHN ANALYSIS

GLHN analyzed existing and future building loads against industry-typical data, and projected both the existing and future storm water runoff volumes*. A simplistic approach taken was to use the development square footages, and compare pre-development conditions with full build out conditions and sum the increase of storm water anticipated. The table on the following page provides an analysis on a street by street basis.

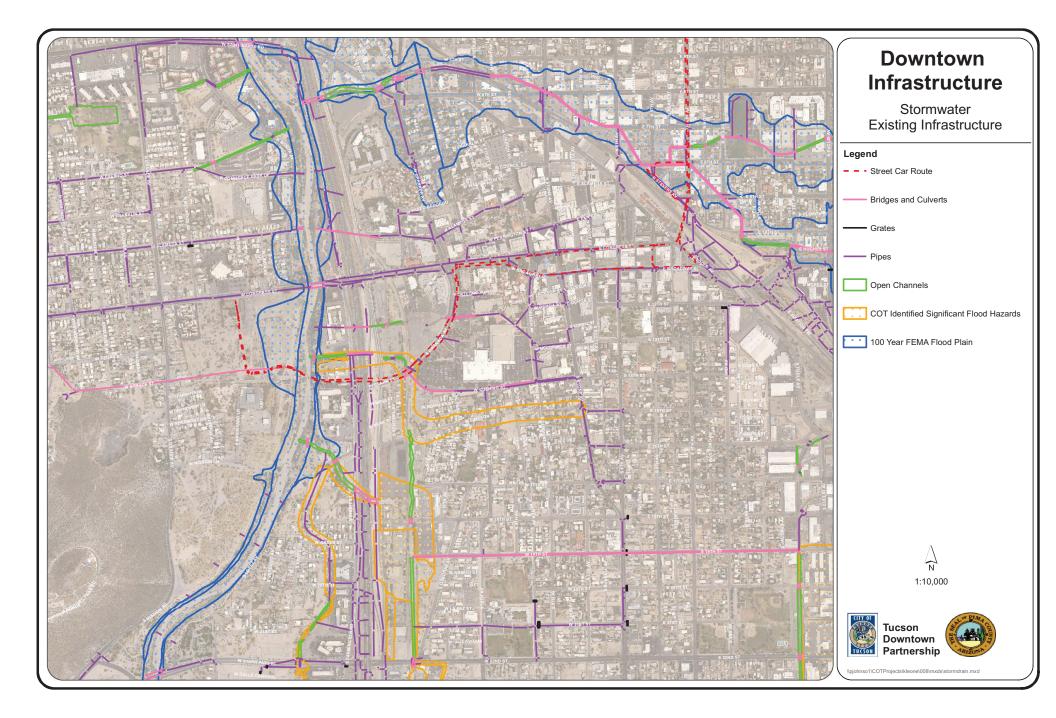
The information was taken from the master spreadsheet providing development building footages. This chart represents is a very general presumption as to the increase in development downtown and how it will effect the storm water system. The development sites were organized into street by street categories. The square footages for the proposed development were tallied for each street. A pre development coefficient of runoff was assumed with a semi- permeable surface. Q100 values were calculated in CFS for this condition. A post development coefficient of runoff factor was used assuming a near impervious surface (asphalt, roofs, concrete). Q100 values for the street were again calculated and then compared to original conditions.

Street Leastion	Total og ft	Pre	Post	Increase
Street Location	Total sq ft. =	(CFS)	(CFS)	(CFS)
4 th Avenue	110,000	4.6	7.6	3.0
5 th Avenue	392,000	16.4	27.3	10.9
6 th Avenue	413,000	17.2	28.7	11.5
<u>Alameda</u>	1,351,000	56.4	93.9	37.5
<u>Broadway</u>	1,014,000	42.3	70.5	28.2
Church	2,147,000	89.6	149.3	59.7
<u>Congress</u>	3,776,000	157.5	262.5	105.0
<u>Council</u>	88,000	3.7	6.1	2.4
<u>Franklin</u>	297,000	12.4	20.6	8.2
<u>Granada</u>	404,000	16.7	28.0	11.3
I-10 Frontage	1,647,000	68.7	114.5	45.8
<u>Main</u>	66,000	2.8	4.6	1.8
Meyer	6,000	.3	.4	.1
Mission Lane Road	477,000	19.9	33.1	13.2
Paseo Redondo	1,027,000	42.8	71.4	28.6
Pennington	105,000	4.4	7.3	2.9

DEVELOPMENT RELATED ESTIMATED INCREASES IN STORMWATER RUNOFF *

<u>Scott</u>	158,000	6.6	11.0	4.4				
<u>Stone</u>	1,650,000	68.8	114.7	45.9				
Toole	224,000	9.3	15.6	6.3				
Rail Road Frontage	330,000	13.8	22.9	9.1				

TOTAL = 435.8 CFS



TUCSON ELECTRIC POWER

OVERVIEW

The electrical franchise holder for the downtown Tucson area is Tucson Electric Power (TEP), who has sole distribution rights within City of Tucson rights-of-way. Existing TEP feeders in the downtown Tucson planning area are typically served from the Santa Cruz substation on the east bank of the Santa Cruz River, and the Tucson substation near St. Mary's Road and Main Avenue

Within the Tucson Convention Center, Tucson District Energy LLC generates electricity in parallel with TEP, and provides much of the power requirements of the Tucson Convention Center and the headquarters buildings for the Tucson Police and Tucson Fire Departments. Tucson District Energy's system is not considered further in this report.

Although some telecommunications providers, in particular Qwest and Cox Communications, often share a common trench or overhead line locations with TEP, they are considered under the Information Technology section of this report.

AGE OF INFRASTRUCTURE

The majority of TEP's distribution lines in the downtown area are 40 to 60 years old. Approximately 35 concrete vaults and pullboxes are located in the downtown study area. The majority of these concrete vaults were constructed between the late 1940s and the early 1970s. Many of these vaults contain abandoned cables that occupy space with newer distribution lines. Fiber optic cables from several of the downtown communication companies also run in these vaults. There are six vaults along Congress Street and Broadway Boulevard. Several of these are located beneath the newly-approved streetcar route.

ASSESSMENT OF CAPACITY

Most of the existing underground system in the downtown area is at or near capacity based on its original design. Adding additional load without upgrading the system is not possible. In recent years there have been various electrical upgrades to some of the buildings in the downtown area. Utilizing these facilities will be factored in on a spot demand basis. These upgrades are not expected to contribute significantly to meeting future demand.

Power supply to some areas is complicated by lack of available open space needed for the placement of transformers and switch cabinets. The street-front, zero lot-line configuration that characterizes much of the downtown area is a major obstacle to increasing electrical capacity to existing older buildings.

Calculations for future capacity loads were derived from information provided by the Infrastructure Task Force to TEP on anticipated future development. The baseline assumptions provided are as follows: the area of existing buildings of all types within the study area is 5.4

million square feet, projected new construction over the entire planning period is estimated at 8.8 million square feet, for a total built-out area of approximately 14.2 million square feet.

To meet anticipated future development loads, TEP has determined that a new 138kV substation will be required to serve the 38,000 Kilowatt of additional load for the ultimate 20 year build-out in the downtown area. The exact substation location cannot be determined at this time, however, the preliminary location would be somewhere along the Congress Street corridor on either the east or west ends of the downtown area. This substation would be served from an overhead 138kV line. A new overhead 138kV line and the possible upgrading of the existing 138kV system would also be required. The approximate cost for a new 138 kV substation is \$8-9 million dollars. This cost does not include land acquisition, underground feeder routes, and the 138kV overhead line. These items have too many variables to determine an approximate cost at this time.

Along with a new substation, additional distribution feeders will be needed. These feeders will run east/west and north/south (see drawing), and will consist of one or two 6 - inch conduits with associated pullboxes and manholes. They would terminate in above grade switchgear and would be distributed to customers throughout downtown. Additionally, TEP recommends that 6 - inch sleeves be placed in all streets undergoing improvements, before trenches are backfilled. The exact quantity and location would be determined at the time of the roadway design.

If the City decides to rebuild downtown streets, including major excavating and trenching, TEP would evaluate the existing underground electric infrastructure and possibly look to modernize aging below-grade equipment. The long-term benefits of these improvements could be very significant given the limited available property for above-ground facilities.

MODERN STREETCAR

The streetcar project will affect underground TEP facilities within the Broadway Boulevard, Congress Street, and Granada Avenue alignments. It is tentatively estimated that the cost to relocate and/or improve the underground TEP conduit system under these streets is \$1,900,000. This cost does not include vaults and pull boxes.

TEP has reviewed the preliminary route of the streetcar and have the following comments:

- The catenaries for the historic trolley along 4th Avenue provide adequate clearance for TEP overhead transmission lines. If the caternary elevations for the modern streetcar are higher and do not provide adequate clearance from overhead TEP lines, the lines will have to be altered (undergrounded or raised). If caternary heights remain the same as those on 4th Avenue, there should be minimal conflicts with the existing overhead system downtown.
- TEP has underground facilities in Congress Street, Broadway Boulevard, Granada and 5th Avenue. These facilities include pullboxes and manholes which may need to be relocated if the streetcar tracks pass over them.
- TEP has overhead lines at Arizona Avenue crossing Broadway Boulevard and at Sentinel Ave crossing Granada. The heights of the existing power lines may need to be adjusted to accommodate the streetcar.
- TEP has a 138 kV transmission along the Santa Cruz River and the streetcar will be passing under. These facilities may need to be adjusted depending on the exact height of the street and associated equipment.

 There are several underground vaults under the proposed streetcar route. It may be determined after further evaluation that these vaults need to be relocated due to stray electricity from the streetcar, because of conflicts with the placement of caternary pole footers, or as a response to the 4 foot cone of pressure that will be exerted by the streetcar on the underground system.

OVERHEAD TO UNDERGROUND CONVERSION

There are approximately 20,200 linear feet of overhead lines within the study area boundaries development. Approximately 12,000 linear feet of these lines lie along major streetscape improvement routes and are strong candidates for undergrounding. The approximate cost is \$300 a foot for a total of \$3.6 million. This figure does not cover residential areas or the area on Toole Avenue, Stone Avenue and 4th Avenue. This does not include transformers, secondary distribution, land costs for easement acquisition, or underground relocation of Telco and cable television. This cost should only be used for 13.8kV distribution lines, 46 kV and 138kV were not considered.

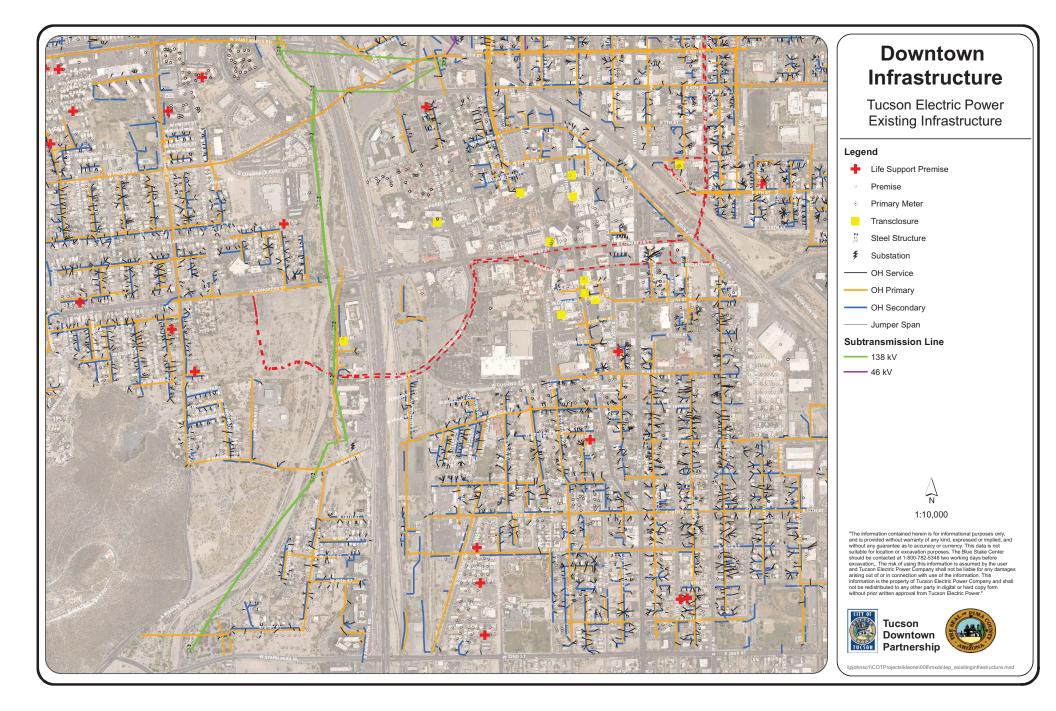
The overhead cables that are located along Toole Avenue corridor from Stone Avenue to 4th Avenue are currently being designed for conversion to underground. This is being done on two projects that are currently under contract: the 4th Avenue Underpass Project and the Pima County Courts building. Additionally, there are two underground feeders that will be relocated from the Council Street alignment to Alameda that is in conflict with the new courts building. TEP suggests that in addition to the undergrounding requirements of these two projects, an additional 6 – inch conduit be placed in the trench with the two feeders that are being relocated.

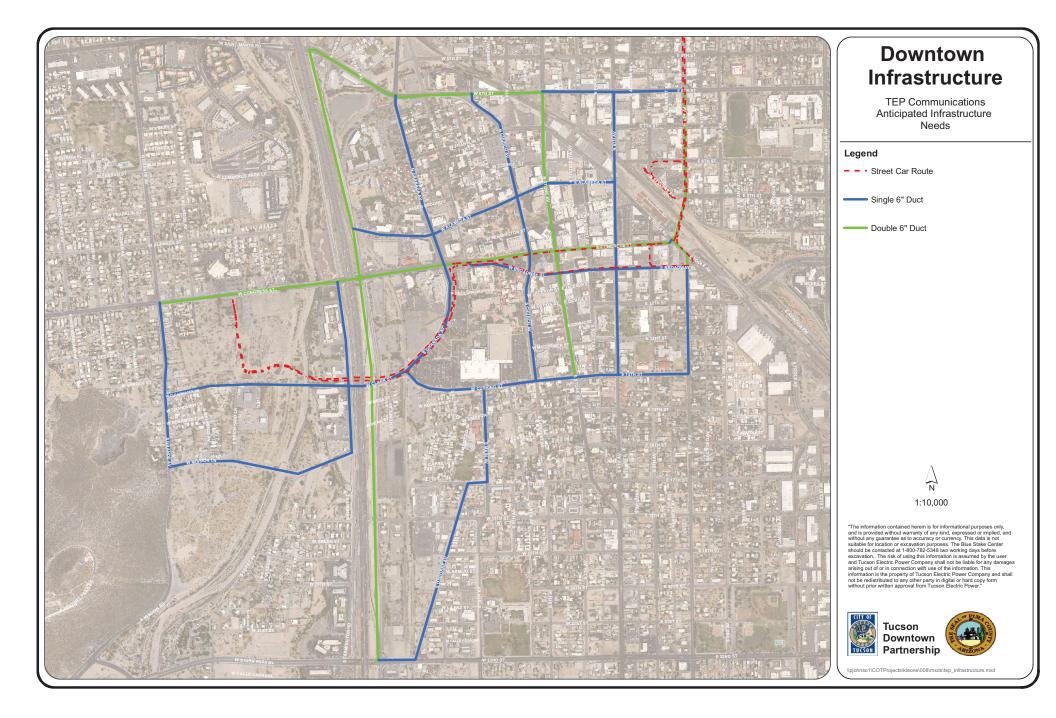
COST & FUNDING

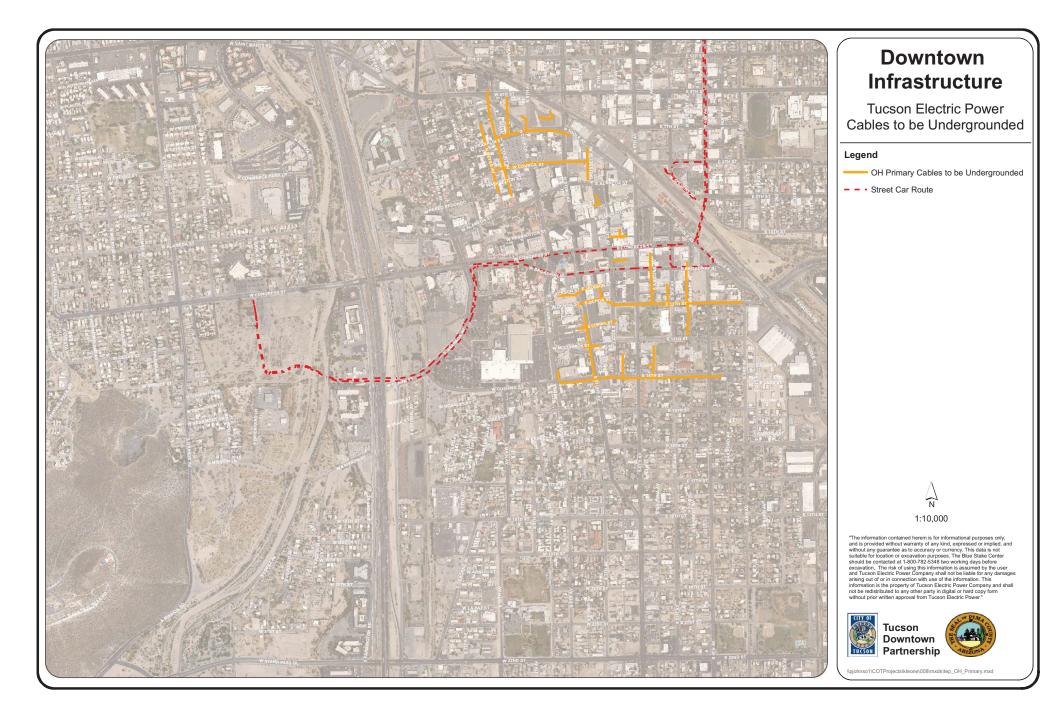
The City of Tucson/TEP franchise agreement, TEP rules and regulations, and subsequent contract agreements may determine how system improvements will be funded.

Typically, the costs of expanding the power system are shared between TEP and the developer. Costs of expanding an overhead distribution system are almost entirely borne by TEP. Underground distribution system costs are shared between TEP and the developer or the city, divided on the basis of work additional to that required for an overhead system. When relocating an existing system to accommodate out-of-rights-of-way developer improvements, the developer may carry a greater share of the relocation costs. When relocating an existing system to accommodate City roadway or drainage improvements, TEP is required to assume the relocation costs. The City of Tucson/TEP franchise agreement and the TEP Electric Service Requirements Book carry full information on responsibilities for work on the power system.

According to TEP, costs associated with relocation of underground cable along the streetcar alignment are the responsibility of the "light rail system," not TEP (see A.R.S. Sec. 48-5315 for more information). TDOT staff believes that this provision does not apply to Tucson's modern streetcar because it is not considered a "light rail system."







TUCSON WATER

OVERVIEW

The potable (drinking) water system located in the downtown development plan area is owned and maintained by the City of Tucson Water Department (COTWD). The majority of these water lines are within the public right-of-way. Only in a few instances are water lines located within privately owned properties which require a water line easement. Tucson Water's system ranges in size from 1" diameter pipes to 36" diameter. Pipe material varies and includes ductile iron pipe (DIP), cast iron (CI) polyvinylchloride (PVC), concrete cylinder pipe (CCP), and cement asbestos (CA) pipe.

Age of Infrastructure

Water service life for pipeline varies on location, pipe material and water chemistry, but a conservative value is 50-60 year service life. Pipes considered for replacement are those which are 40 years and older assuming that within the project planning period of 20 years, replacement or rehabilitation will have to be done.

Costs for replacement were calculated by identifying footages and diameters and then multiplying by unit construction costs. Small diameter pipes less than 4 inch will be replaced with 6 inch diameter to comply with current Tucson Water Design Standards. The Design Standards require 6 inch or greater pipe diameters for adequate pressure and flow for fire suppression. The total cost for replacing pipes in the area is \$ 6.8 million.

ASSESSMENT OF CAPACITY

For the entire area of this study, the service area is within one pressure zone, designated "A" zone by COTWD. This water system is typical of other Tucson service zones in that redundant reservoirs located at pressure zone high-water elevations, provide constant pressure and water supply under various demand scenarios. The City's information for existing buildings of all types within the downtown Tucson boundaries is approximately 5.4 million square feet. The City's projected new construction over the entire planning period is approximately 8.8 million square feet, for a total building area of approximately 14.2 million square feet.

GLHN analyzed existing and future building loads against industry-typical consumption data, and projected existing and future utility requirements for potable water demands. Hydraulic modeling analysis was carried out to determine possible main transmission upgrades (larger diameters) for future demands. Results indicated that current transmission mains have enough capacity to supply future water demands. Projected water demands from the building and utility model were estimated two ways: by population and by building square footage. Both methods produced fairly close results. The building and utility model projected water daily demand is 2,150,000 gallons per day (based upon projected occupancy populations). The existing water system for the study area inventory of total footage is approximately 100,000 linear feet.

Reclaimed Water

Reclaimed water service is currently available in some of the downtown Rio Nuevo development area; however, main extensions and new laterals will be required to serve many of the facilities identified for reclaimed water service. The Business Improvement District (BID) currently does not have any reclaimed mains or extensions. A determination of the economic and practical feasibility of making these improvements is recommended prior to committing to service. Consideration should be given to the volume of reclaimed water to be delivered to the individual facilities, the Rio Nuevo area, and beyond versus the cost of the infrastructure to supply it. Opportunities to combine reclaimed water system construction with other street/pipeline work should also be considered.

It is recommended that funds be set aside for the enhancement of the reclaimed system in the downtown area. For the purpose of preliminary budgeting, funds for 2 miles of 8" reclaimed water pipe (\$1,500,000) should be set aside. This cost estimate includes 30% for contingency.

Reclaimed water use is governed by ADEQ regulations (Title 18, Chapter 9) and the Uniform Plumbing Code. The Plumbing Code prohibits reclaimed water for residential toilet flushing. The ADEQ regulations contain rules for the operation of sites using reclaimed water, i.e. irrigation can be done only during times when the potential for public is minimized and ponding and runoff of reclaimed water is prohibited.

Plant One Relocation

Tucson Water operates a citywide maintenance facility at 18th Street and Osborne Avenue. It is on twelve acres of land. Operations located there include daily maintenance crews, dispatch, meter readers reporting to work for billing customers, equipment maintenance, electronic shop, welding shop, fueling, Bluestake locating services, training, planning/scheduling, administrative offices, meter shop, salvage, and Backflow offices.

This is a critical facility for Tucson Water. The development plans for downtown require the relocation of this facility. Costs for rebuilding the facility including additional offices will be approximately \$40 million. The total required relocated building square footage is from a space analysis of all the current and future uses of the facility. Cost estimates were taken from recent construction costs of a new similar, maintenance facility on the east side of Tucson.

It is anticipated the Plant One Relocation project design and construction will be coincident to the Kino Boulevard/22nd St RTA Project. Design starts in 2011 with construction in 2014.

STREETCAR ALIGNMENT

This category of water work involves moving all pipes in the route of the modern streetcar. Pipes need to be relocated due the excessive cost of system maintenance below the streetcar alignment. The methodology for the analysis was to calculate costs to move pipes for the modern streetcar started with the creation of a GIS data set of the modern streetcar route. Next buffers were created along this route. All water infrastructure within the buffer was selected. Additional costs were included for cathodic protection required to reduce the potential for accelerated pipe corrosion from stray electric currents in the vicinity of the streetcar system.

The following potential water utility conflicts were identified during the early stages of the streetcar project:

 Broadway Boulevard - 16" water line in left curb lane from Church to Broadway/Congress split

- Congress Street 8" water in/near left curb lane from Stone to Pennington (Federal Building)
- Granada Avenue 24" water line along east curb line (off street near Hotel Arizona); 16" water in median of Granada, southwest to Cushing

The total estimated cost for removing and relocation of all waterlines in the streetcar route is \$4.1 million.

COST & FUNDING

Water costs were derived from GIS and hydraulic model analysis of modern streetcar routes, approximate future demands of specific projects in the downtown area, age and materials of the water system. These costs provide an order-of-magnitude estimate of the capital costs of water projects that are required in the downtown area for the Rio Nuevo development. These cost estimates were made without detailed engineering design data and are based on previous bids of similar construction projects. Capital cost estimates were not adjusted for inflation. Contingency cost was calculated as 30 percent of the total cost estimate. The total costs are \$52.4 million. Costs for improvements outside the planning area are not included within this study.

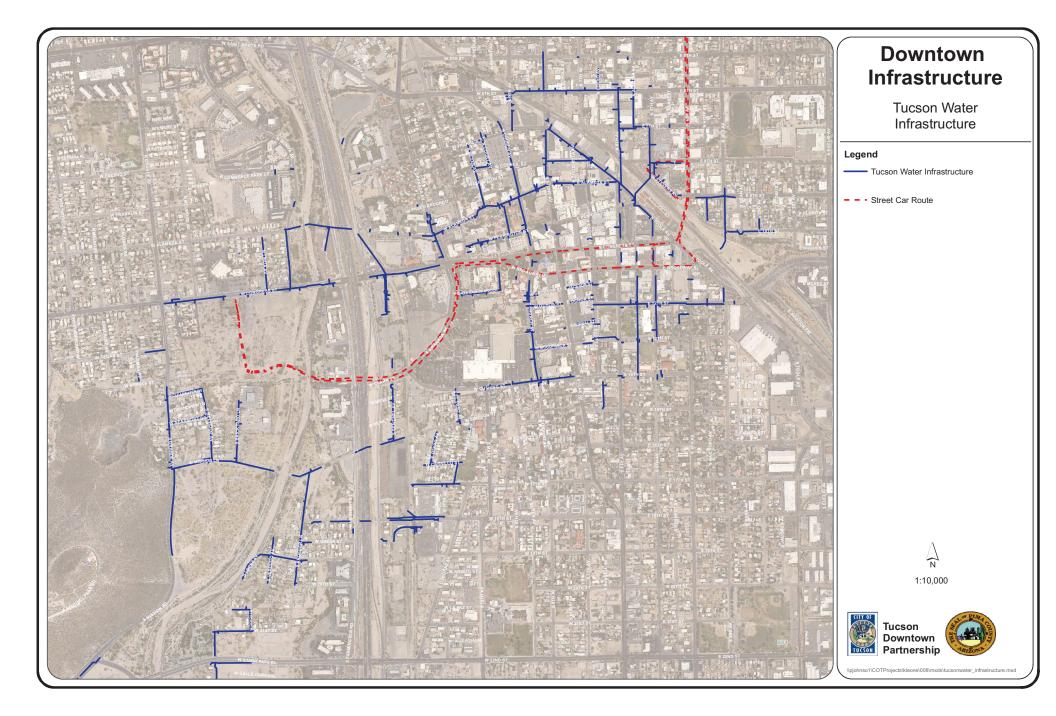
		SHOP/		
WORK GROUPS	BLDG SQ.FT.	WAREHOUSE SQ.FT.	EXTERIOR SQ.FT.	TOTAL SQ.FT.
O&M Central Mx., Sys. Supt.	7,771	5,520		13,291
O&M Sys. Maintenance	5,579	24,540	95,718	125,837
Customer Svc Metering	2,890			2,890
Planning & Engineering	17,011	8,640		25,651
Common Areas	17,160	48,000	241,200	306,360
Totals	50,411	86,700	336,918	

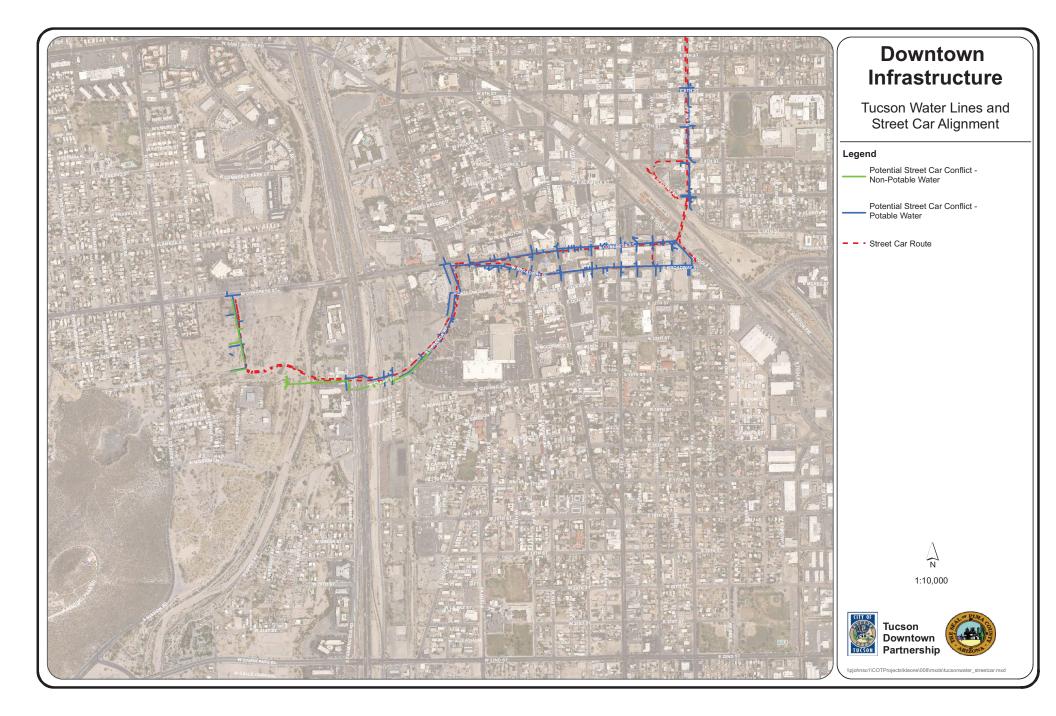
TUCSON WATER PLANT ONE RELOCATION

SDACE SUMMARY

COST SUMMARY

Unit Costs \$/SQ.FT.	\$	250.00	\$		175.00	\$ 10.00	
Construction Cost	\$	12,602,700		\$	15,172,500	\$ 3,369,180	\$ 31,144,380
Contingency		25%					\$ 7,786,095
Professional Fees		10%					\$ 778,610
Totals							\$ 39,709,085





CITY OF TUCSON FIBER NETWORK

OVERVIEW

The City of Tucson fiber optic network infrastructure currently connects City of Tucson buildings in the downtown area. In addition the City of Tucson fiber network has existing and planned connections to all public schools in the area. The system is operated by the City of Tucson Department of Information Technology, Communications Engineering. City of Tucson Fiber Network facilities are identified as City of Tucson INET in the records of the Arizona Blue Stake Center.

Regulations pertaining to the Tucson Fiber Network can be found in the Tucson Regional Networking and Communications Guidelines (latest edition), published by City of Tucson's Department of Information Technology, Communications Engineering. This guideline establishes the underground infrastructure requirements for the City's wide-area data, voice, and video network. In particular, refer to the Rio Nuevo Planning and Design Objectives and the Rio Nuevo Execution Requirements.

Refer also to the Rio Nuevo Utility Master Plan, prepared by GLHN Architects and Engineers Inc. in 2006, which depicts utilities within the Rio Nuevo planning area in more detail.

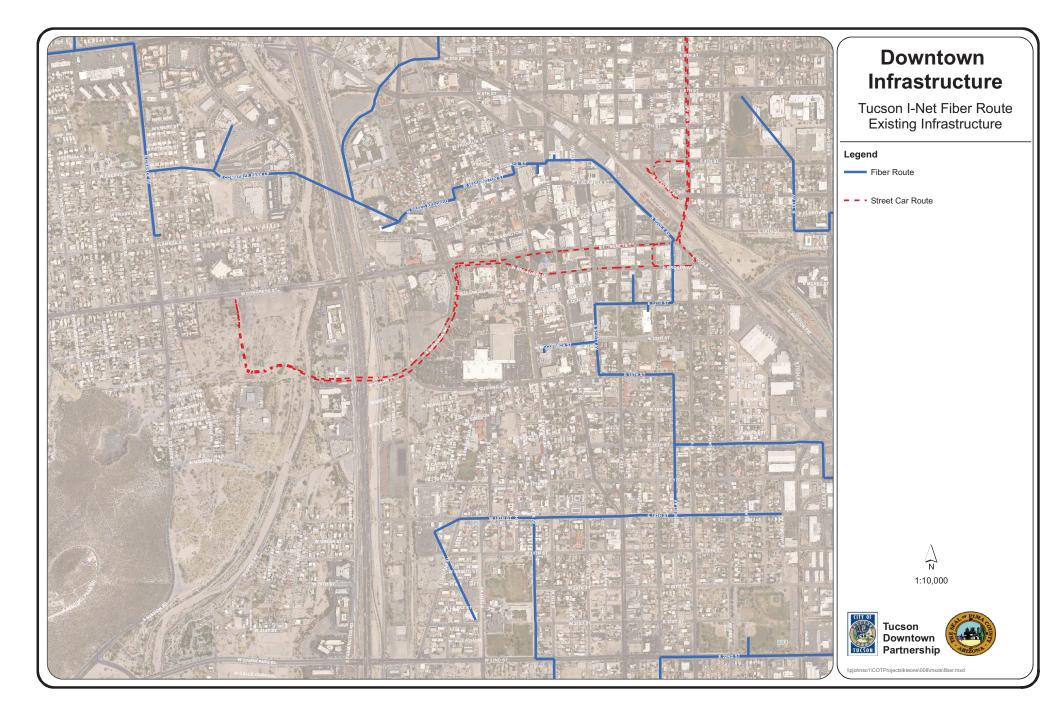
ASSESSMENT OF CAPACITY

The City of Tucson Fiber Network is currently only partially extended within the study area. Some conduit for future use is in place east of the Tucson Convention Center, and there is fiber optic cable connectivity to the TCC, Music Hall, and Leo Rich Theater.

Current City policy provides for installation of fiber optic conduit on any City projects that provide open trenching along critical communication areas. (See attached memo.) Although the Modern Streetcar project will not require significant trenching as part of the track construction, It is expected that the City would wish to take advantage of major-street excavation to install a 4" conduit in the Congress Street, Broadway Boulevard, and Granada Avenue alignments as part of the modern streetcar project. This cost, including approximately 10,000 feet of underground 4" conduit and pull boxes located approximately 500 feet apart, is estimated at \$1 million.

Unlike other major metropolitan markets, Tucson has not created a comprehensive Wi-Fi free zone to date. Information Technology staff are currently working on a feasibility study on creating a free-zone downtown, as well as extending this service throughout the metropolitan area. The results of this study will be presented to Mayor and Council sometime in May or June of 2007.

The downtown system will be comprised of a series of Wi-Fi access points mounted on rooftops, streetlights, and City of Tucson facilities. Some fiber optic cable may have to be installed underground to support the system. The cost estimate for the creation of a downtown Wi- Fi free zone is \$5-\$6 million.



COX COMMUNICATIONS, INC.

OVERVIEW

The cable television franchise holder in the downtown Tucson area is Cox Communications, who also provides information services, broadband communications services, and high speed data transmission lines to the area customers. Cox Communications typically installs all work related to their system, including conduit, cabling, and equipment.

AGE OF INFRASTRUCTURE

The age of the existing system is reported to be in good condition. What few facilities exist in the core downtown area were installed between 1983-85 at the time of Cox's first franchise agreement with the city.

ASSESSMENT OF CAPACITY

Cox Communications has provided a conceptual drawing to GLHN Architects and Engineers, Inc., showing existing Cox fiber optic routes and possible routes of new 4" conduit that would be required to support future development within the downtown planning area. The drawing shows 66 vaults, and approximately 23,000 feet of underground 4" conduit. The cost for these improvements is estimated at \$2.3 million.

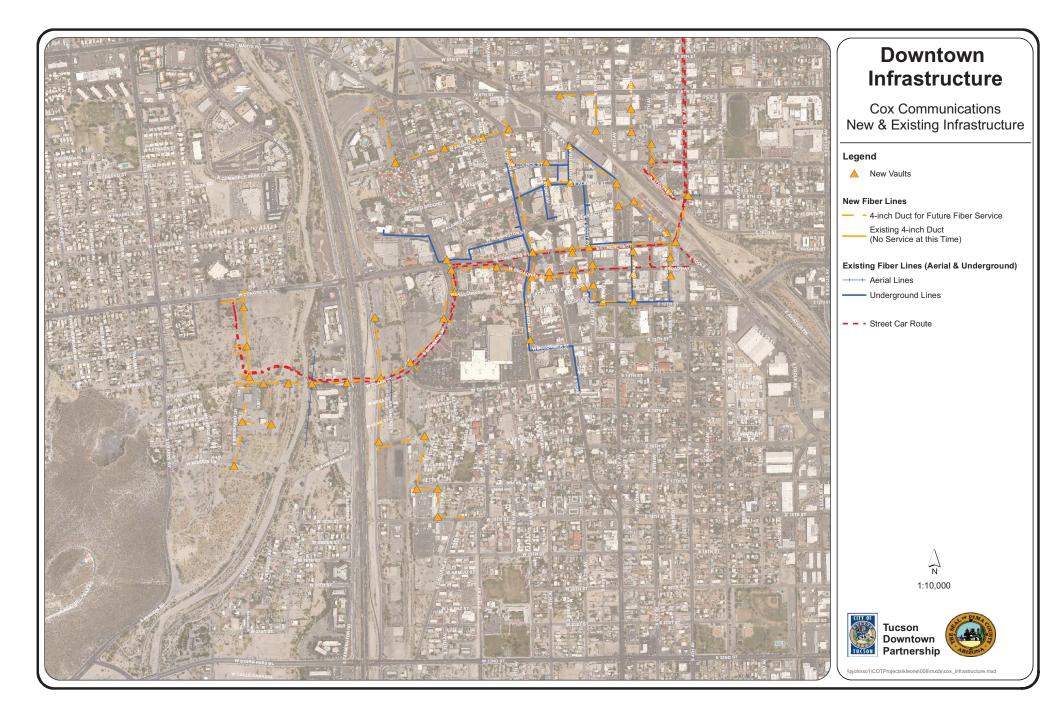
Except for a 1-½ block area between Arizona Avenue and Scott Avenue, Cox Communications does not have service or conduits along the streetcar route east of I-10. Additionally, south 6th Avenue from Toole Avenue to Cushing Street, and Stone Avenue from Pennington to McCormick Street are also without service.

STREETCAR ALIGNMENT

The Cox Communications drawing shows little existing facilities in the streetcar route. Short runs on Congress Street between Scott Ave -5^{th} Ave and from Granada Ave east to the Pima County complex are shown. Cox shares a vault with Qwest at an average depth of 36 inches at those locations. The cost to relocate approximately 1000 feet of underground facilities is estimated at \$200,000. These estimates do not include trenching.

COST & FUNDING

The costs for relocating an existing system to accommodate out-of-right-of-way developer improvements are usually borne by the developer or Cox Communications. The cost of relocating an existing system to accommodate City roadway or drainage improvements are usually borne by Cox Communications in accordance with its franchise agreement with City of Tucson. The company shares overhead pole lines and underground trenches with Tucson Electric Power, and their routes generally follow those of TEP.



MCI NETWORK SERVICES (PARENT COMPANY VERIZON)

OVERVIEW

MCI Network Services (recently purchased by Verizon) provides voice and data communications services to business customers in the downtown area. MCI is one of three Competitive Local Exchange Carriers (CLEC's) operating in the downtown Tucson area.

MCI Network Services has a business office and communication node at 71 E. Alameda Street, now identified as the Verizon office.

MCI facilities in the downtown area are mainly located underground, in a system of company owned and rented ducts. South of 15th Street and west of I-10, MCI shifts to aerial facilities. MCI facilities are typically buried at a depth of 36 to 48 inches and are not encased in concrete unless 36-inch depth could not be achieved.

MCI also has long distance underground fiber optic facilities, but these are contained entirely within the Union Pacific Railroad right-of-way.

AGE OF INFRASTRUCTURE

No response was received on infrastructure age.

ASSESSMENT OF CAPACITY

MCI has no plans for expansion of the local network in Tucson at this time. Relocation of underground cable (possibly to temporary aerial cable attached to TEP poles) will be required in the area of the new Justice Court/Municipal Court Complex, located southeast of the Stone Avenue/Toole Avenue intersection.

STREETCAR ALIGNMENT

MCI has duct runs parallel to and crossing the planned Modern Streetcar track location on Congress between Pennington and Granada, and on Granada south of Congress.

At this time no determination has been made on whether upgrades or relocations of MCI facilities will be needed in connection with the Streetcar construction. Verizon's normal policy is to remain in place unless its facilities are directly impacted or put in jeopardy by construction activities.

COST & FUNDING

Relocation required by public roadway improvements will be paid for by the company. Occasionally the City of Tucson offers joint trench opportunities, where the City pays for the cost of the trench and (possibly) conduit installation.

PIMA COUNTY FIBER NETWORK

OVERVIEW

Pima County Information Technology (PC IT) has leased Tucson Electric Power spare underground ducts where available.

Pima County desires to establish connectivity between an existing pull box on the NW corner of Pennington and Congress Streets, and the County Detention facility at Silverlake Avenue and Mission Road. To this end, the Utility Master plans shows conduit through Rio Nuevo to the southwestern boundary of Tucson Origins Heritage Park; other work along Mission Road should take any opportunity to further this conduit path.

It is expected that Pima County would wish to take advantage of major-street excavation to install a 4" conduit in the Congress Street, Broadway Boulevard, and Granada Avenue alignments as part of the modern streetcar project. This cost, including approximately 10,000 feet of underground 4" conduit and pull boxes at approximately 500 feet apart, is estimated at \$1 million.

QWEST COMMUNICATIONS

OVERVIEW

Qwest Communications owns an extensive fiber optic and copper network in the downtown area, selling telecommunication services to local customers. Qwest owns the local distribution infrastructure that was accumulated by Mountain Bell (originally AT&T) while operating as the local telephone monopoly, in the years before the 1996 Cabling Act opened local communication services distribution to competitive marketing.

Typically, where possible, Qwest conduits share a joint trench with Tucson Electric Power conduits, at a shallower burial depth.

Qwest also owns a long haul fiber line, usually referred to as Qwest National (and identified as "Qwest World" or "Qwest Net" in Arizona Blue Stake Center records). The long haul line is located in the Union Pacific Railroad (UPRR) right-of-way.

AGE OF INFRASTRUCTURE

The local distribution network in the study area is a mix of copper aerial lines, constructed mainly in the 1940s, and underground copper and fiber optic cables, installed primarily in the late 1940s (copper) and late 1980s (fiber).

ASSESSMENT OF CAPACITY

Qwest central office facilities are located within two miles of all proposed developments.

STREETCAR ALIGNMENT

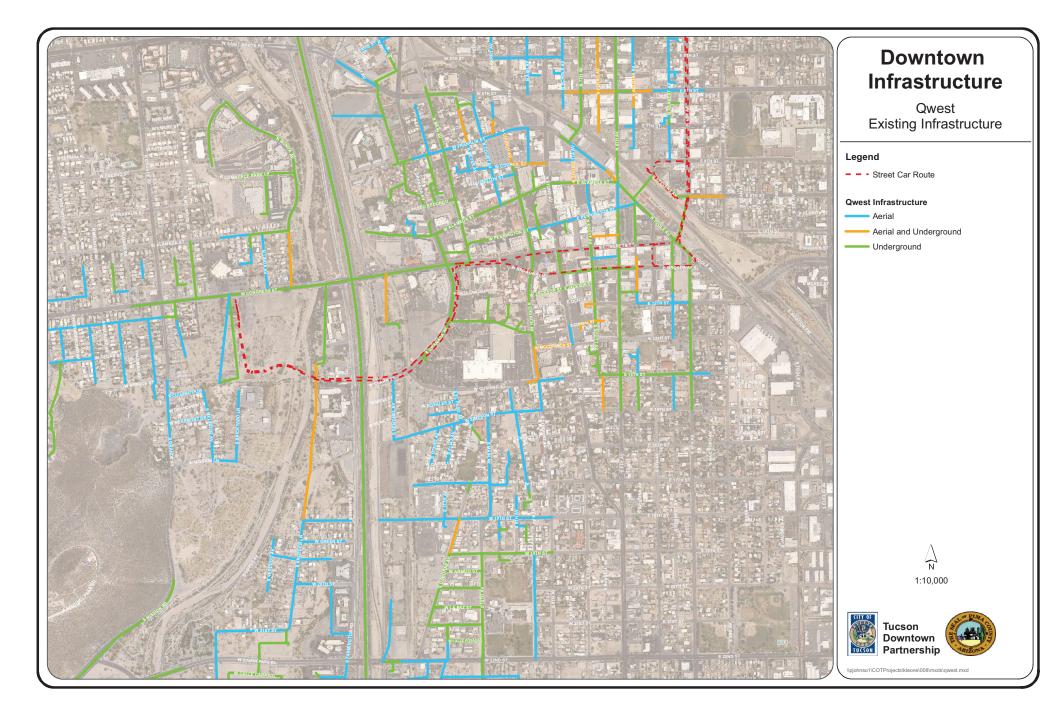
If it is decided that utilities will be relocated, Qwest estimates their cost to relocate their underground infrastructure along the line to be approximately \$3 million. This includes cost to relocate new facilities to the appropriate side of the street.

There may be opportunities for joint trench installation of relocated and new Qwest conduit along the planned Modern Streetcar alignment, which extends from the UA owned University Medical Center (UMC) through the main campus, downtown, and terminates at the Rio Nuevo Development District west of the Santa Cruz River.

COST & FUNDING

Cost to underground existing aerial cable: Qwest may have over 10,000 feet of cable on TEP poles in the downtown planning area. At an assumed cost of approximately \$150/ft to underground this infrastructure a possible cost of this effort might be \$2.1 million.

Relocation and Expansion Costs: Qwest is responsible for cabling and connections to the Qwest network in new installations. The developer typically pays for all conduit, vault, and earthwork costs related to new connections to the Qwest system. When relocating an existing system to accommodate onsite developer improvements, the developer will carry all costs of the development.



<u>AT&T</u>

OVERVIEW

AT&T provides no direct service to local customers, but provides optional long distance service for calls/internet originating in the local Qwest network. This type of operation is known as Long Distance Competitive Access Service (LDCA).

AT&T has two distinct communications lines running through the City: the AT& T Core Line, constructed in 1986, and the "Nex Gen" line completed in 2002. ("nex gen" is short for "next generation") The "nex gen" line is located west of the Core Line. Both lines converge on the downtown AT&T building, 126 E. Alameda.

The Core AT&T line is multiple ducts, encased in 4500 psi concrete, located approximately 3' below the surface, except at some of the major intersections, where AT&T used a steel sleeve and a deeper installation to stay clear of existing utilities.

The "Nex Gen" line is multi-duct HDPE installed by directional boring methods. It is located at a depth of about 3 feet in Alameda, but can be quite deep.

AT&T requires any new installations to maintain a 2' horizontal and vertical clearance from AT&T facilities. Also, AT&T requires that any excavation taking place withing5 feet of AT&T lines be undertaken only while an AT&T representative is onsite to monitor the digging.

AGE OF INFRASTRUCTURE

The Core AT&T line was constructed in 1986. The "Nex Gen" line was constructed in 2002.

ASSESSMENT OF CAPACITY

AT&T provided no information about planned capacity increases.

STREETCAR ALIGNMENT

AT&T duct runs parallel to the planned Modern Streetcar track location on Congress between Stone and Church. At this time it is not known whether relocations or upgrades would be needed in connection with the Streetcar construction.

COST & FUNDING

Relocation required by public roadway improvements will be paid for by the company. Relocations needed to accommodate private development will be paid by the developer.

LEVEL 3/BROADWING/WILTEL COMMUNICATIONS

OVERVIEW

Level 3 Communications has recently acquired two other telecommunication companies in downtown Tucson. These are WilTel Communications (acquired December 2005) and Broadwing Communications (acquired January 2007). These separate business identities are still maintained on the Arizona Blue Stake listings.

Level 3 (along with and its recently acquired telecoms) is a long haul fiber carrier, with a fiber optic presence in the Union Pacific Railroad right-of-way. Broadwing owns aerial cable in the UPRR right-of-way that goes underground at TEP's Tucson Substation (near 5th Street and Main) and continues in TEP duct bank to 33 North Stone, where it enters the building from the Pennington Street side. Wiltel's fiber optic presence leaves the UPRR right-of-way near the historic train station, and lands in the Level 3 telecommunications building at 135 N. 6th Avenue, just east of the AT&T/Qwest Tucson Main building at 126 E. Alameda. This fiber is typically installed in TEP duct bank. TEP is no longer renting duct space to telecommunications providers, but it is not requiring existing duct bank tenants to vacate.

Age of Infrastructure

No information was provided on infrastructure age.

ASSESSMENT OF CAPACITY

No information was provided on existing capacity or any plans for capacity improvements.

STREETCAR ALIGNMENT

Because of the location of the Level 3 facilities (at least 1/2 block north of Congress), no impacts are expected from the planned Modern Streetcar project.

COST & FUNDING

No information was provided.

McLeod USA

OVERVIEW

McLeod USA operates a small city ring which offers internet services. The ring has it's northwest corner at the 12th Street/3rd Avenue intersection. Long distance transport is on cable infrastructure owned by others. Because of the location of the McLeod facilities, no impacts are expected in the downtown Tucson planning area, or with the planned Modern Streetcar.

AGE OF INFRASTRUCTURE

No information was provided on infrastructure age.

ASSESSMENT OF CAPACITY

No information was provided on existing capacity or any plans for capacity improvements.

STREETCAR ALIGNMENT

Because of the location of the McLeod facilities, entirely located south and east of 12th Street and 3rd Avenue, the northwest corner, no impacts with the planned Modern Streetcar.

COST & FUNDING

No information was provided.

TIME WARNER TELECOM/XSPEDIUS

OVERVIEW

Time Warner Telecom provides voice and communications services and data transport services to a variety of customers, as a Competitive Local Exchange Carrier (CLEC) operating in the Tucson metropolitan area. With the merger of Time Warner Telecom and Xspedius in 2007, the number of CLEC's operating in the downtown Tucson was reduced to three. Customers of Time Warner/Xspedius include small and large businesses and various government agencies.

Time Warner maintains underground facilities in a majority of the streets located in the downtown and Rio Nuevo areas as part of a city wide fiber ring.

The Time Warner system is almost entirely underground in the downtown area. Time Warner cable switches from underground to aerial at the intersection of Court and Church, and then heads north across 6th Street and along 10th Avenue to the MCI Point of Presence (POP) at 220 West Elm. Time Warner also owns aerial fiber along Toole Avenue between Stone and 6th Avenue at this time, but this cable is scheduled to be relocated underground in the next few months, to accommodate construction of the Pima County/City Joint Courts Complex .

AGE OF INFRASTRUCTURE

Much of the Time Warner fiber system is located in underground conduit leased from TEP. All duct owned by Time Warner (as opposed to cable systems occupying rented TEP duct) has been installed since 1996. This comprises approximately 50% of the Time Warner communications system in the downtown and Rio Nuevo area. These newer duct systems were installed by Time Warner and Xspedius as stand alone (not joint trench) projects.

ASSESSMENT OF CAPACITY

At this time the Time Warner system has adequate capacity to meet customer needs. Cable extensions are designed and installed to meet new customer demand. No forecast or business plan providing for system expansion exists at this time, although this could change with the addition of one or two major customers.

STREETCAR ALIGNMENT

Time Warner has provided information on possible conflicts with the proposed Modern Streetcar alignment. There are many Time Warner underground crossings of the planned streetcar alignment in the downtown area, and many locations where underground conduit occupies Congress and Broadway. The most likely points of conflict (where Time Warner ducts are located parallel and in close proximity to the planned track locations) are: Congress directly east of Granada, and both Congress and Broadway, between Stone Avenue and 6th Avenue,

Splice length considerations will, in most cases, prevent reconstruction of underground crossings under the new streetcar track, but sleeves constructed in conjunction with the Streetcar might be used in future years.

Time Warner would be interested in joint trench opportunities associated with the Streetcar construction.

COST & FUNDING

Relocation required by public roadway improvements will be paid for by Time Warner. Occasionally the City of Tucson offers joint trench opportunities, where the City pays for the cost of the trench and (possibly) conduit installation.

Duct systems in new subdivisions would be placed at the developer's expense. Time Warner installs cable and makes connection. Funding for other customer-driven system expansions would be determined on a case-by-case basis.

UNIVERSITY OF ARIZONA FIBER OPTIC SYSTEM

OVERVIEW

The University of Arizona (UA) maintains a fiber optic system throughout its Main Campus. Within the downtown and Rio Nuevo study area the UA campus fiber net is limited to aerial cable attached to TEP power poles, along the north side of 6th Street, between the University Service Annex (USA) Building at 220 West 6th Street and Park Avenue. The 6th Street fiber optic line connects the main campus to the USA building. A second fiber connection to the Main Campus enters the USA building from the north.

The University of Arizona maintains off-campus connectivity through two fiber optic connections to the WilTel (Level 3) node at 235 North 6th Avenue. The first long distance connection is through aerial fiber optic cable running down the Union Pacific Railroad right-of-way from the USA building to a point near Toole Avenue and Alameda, where it leave the Railroad to connect to WilTel. The second runs from WilTel across the railroad right-of-way, then east along 8th Street to Herbert, and north to 6th Street and then east to Euclid.

New UA facilities will be constructed as part of the Rio Nuevo development. The extent and location of these new UA facilities are currently in negotiation between City of Tucson and UA. Communications connections between these facilities and the Main Campus are expected to run through the City of Tucson Fiber Network. The City has a fully redundant fiber ring which is already connected to the UA Computer Center located at 1077 N. Highland (SW corner of Speedway and Highland). Any additional UA facilities constructed in the downtown Rio Nuevo area will be connected to UA via the City's fiber network.

AGE OF INFRASTRUCTURE

The University's aerial fiber optic line running along the north side of 6th Street was installed in 2002. The UA WilTel connections were installed in 2005 and 2006.

All components of the Tucson Fiber Network have been constructed in the last 8 years.

ASSESSMENT OF CAPACITY

Communications engineers at UA calculate that the existing infrastructure will provide adequate capacity for 10 to 15 years.

STREETCAR ALIGNMENT

At this time it is expected that any fiber infrastructure expansion in conjunction with the Modern Streetcar alignment will be the responsibility of City of Tucson Fiber Network, with no direct involvement by UA.

COST & FUNDING

The University's communications needs for the new UA Rio Nuevo sites will be provided by the City of Tucson Fiber Network, and funded from the Rio Nuevo project.

UNION PACIFIC RAILROAD - INTERSTATE COMMUNICATIONS CORRIDOR

OVERVIEW

The Union Pacific Railroad (UPRR) right-of-way is a major interstate communication corridor. Copper and fiber optic lines for a number of interstate carriers, including Qwest National, Level 3 Communications, and MCI/Verizon are contained within the railroad right-of-way. Major nodes for these carriers are maintained at the Qwest/AT&T building on Alameda west of 6th Avenue, and at the MCI Building at 220 West Elm Street.

AGE OF INFRASTRUCTURE

No attempt was made, as part of this study, to obtain information on the specific ages and configurations of the individual long haul fiber systems occupying the UPRR right-of-way.

ASSESSMENT OF CAPACITY

No attempt was made, as part of this study, to obtain information on existing capacity or planned capacity improvements for the long haul fiber systems occupying the UPRR right-of-way.

STREETCAR ALIGNMENT

The planned Modern Streetcar route will take the streetcar under the Union Pacific Railroad tracks at the new 4th Avenue underpass, which is currently under construction. It is anticipated that the streetcar tracks will be installed in the underpass as part of the current 4th Avenue construction project. Therefore, no obstructions or conflicts are anticipated for the streetcar project.

COST & FUNDING

Any work performed in the UPRR right-of-way requires many additional regulatory and review steps. It is assumed that any work in the railroad right-of-way will be in connection with a public improvement project or utility expansion/relocation project. Private development projects should have no reason to disturb any facilities in the UPRR right-of-way.

VALLEY TELECOM GROUP

OVERVIEW

Valley Telecom Group is an incumbent local exchange carrier serving rural communities east of Tucson. Valley Telecom's presence in downtown Tucson is limited to a long distance fiber optic line, whose primary purpose is transfer of long distance calls from Valley Telecom customers (residing outside of Tucson) to Qwest, for further long distance distribution. The Valley Telecom fiber system is also utilized as Long Haul Transport for other communications companies.

The downtown Valley Telecom facility is an 8-duct underground fiber optic line, with minimum depth 50 inches, originating on the south side of Alameda at the Qwest building in the block directly west of Toole Avenue, then traveling south and east on Toole Avenue and local streets until passing outside of the downtown area. In some areas the conduit depth may be as great as 20 feet to avoid other utilities. The City of Tucson has 2 ducts in the same trench through most of this run.

Valley Telecom recently completed relocations in the Toole and 5th Avenue/4th Avenue area to eliminate conflicts with the upcoming 4th Avenue Railroad Underpass project. The relocated duct is placed at a minimum depth of 5 feet.

AGE OF INFRASTRUCTURE

The downtown part of Valley Telecom's system was placed in 2002 and 2003.

ASSESSMENT OF CAPACITY

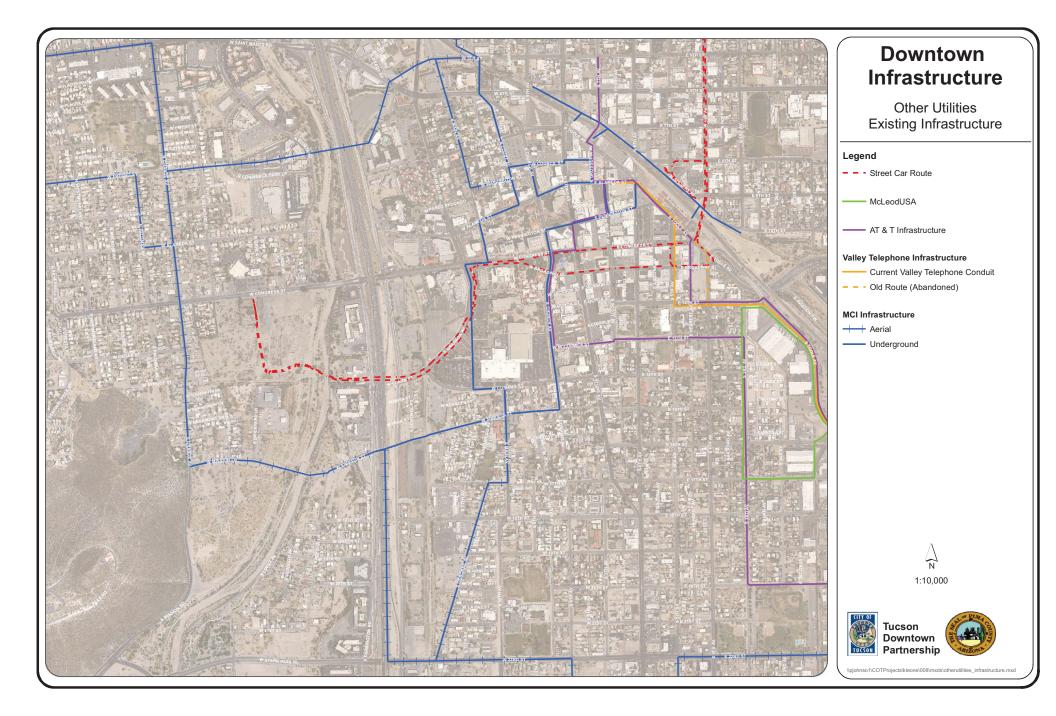
Valley Telcom has plans to increase its internet capacity by leasing existing fiber from Time Warner. There are no plans for new construction in Tucson streets, however.

STREETCAR ALIGNMENT

The current Valley Telecom route crosses the planned Modern Streetcar track on 5th Avenue at Broadway and at Congress. This is part of the new duct bank that was installed at a depth of 5 feet to avoid conflicts with the 4th Avenue Underpass project. No upgrades should be needed during construction of the Modern Streetcar.

COST & FUNDING

Construction and operation of the system is paid from long distance tolls applied to Valley Telecom's local customers outside of Tucson.



4TH AVENUE UNDERPASS

OVERVIEW

Planning is underway for a new 4th Avenue Underpass that will replace the existing underpass. Upon completion, it will provide for two lanes carrying traffic and streetcars, separate bicycle lanes, and two pedestrian walkways accessible for persons with disabilities. The pedestrian pathways will be 20 feet wide on the east side of the underpass and 10 feet wide on the west side.

To assist with pedestrian and bicycle access during the construction period, TDOT plans to install sidewalk and street light improvements along Eighth Street, to link 4th Avenue with the Sixth Avenue Underpass. Additionally, TDOT will complete a paved bike and pedestrian pathway from the Coronado Hotel to the existing sidewalk and bike lane on the north side of the Broadway Underpass.

PROJECT TIMELINE

The project is currently in the planning and engineering design phase. Construction of the new underpass will begin in summer 2007 and will take approximately 18 months to complete. The construction will require that the underpass be closed (between Congress Street and Ninth Street) for approximately 10 to 14 months.

STREETCAR ALIGNMENT

The streetcar will go through the new underpass. The new underpass will accommodate both the historic trolley and the modern streetcar.

COST & FUNDING

It is estimated that the total construction costs related to the project will be \$26 million. Most of the funding will come from State Highway User Revenue Funds (HURF). Utility companies will provide for approximately \$1.0 million of the costs associated with relocating their facilities and equipment involved in the project. Approximately \$1.7 million will be required from other funding sources.

CORPS OF ENGINEERS

OVERVIEW

The United States Army Corps of Engineers (USACE) provides engineering services to the nation including designing, building and operating water resources and other civil works projects (Navigation, Flood Control, Environmental Protection, Disaster Response)

In the downtown area the USACE is engaged in feasibility studies for the Paseo de las Iglesias project and the El Rio Medio Ranch project. The USACE is conducting feasibility studies for restoration of the Santa Cruz River in two reaches where portions of which are in downtown Tucson.

Paseo de las Iglesias Reach

The Paseo de las Iglesias Environmental Restoration Feasibility Study addresses a 7-mile reach of the Santa Cruz River from Los Reales Road on the south to Congress Street on the north. The study was undertaken by the US Army Corps of Engineers and the Pima County Regional Flood Control District, with input from the City of Tucson and other stakeholders. The study, completed in 2005, evaluated ecosystem restoration, flood control improvements, and river park trail development. The project is currently awaiting Federal authorization. The Recommended Plan includes 1,100 acres of mesquite bosques on river terraces and floodplain, bordered by palo verde woodland and desert shrubs. Plan features are consistent with the desires expressed by public involvement work groups, and have been endorsed by the County. Total first cost is \$97,000,000. The federal share is \$59,666,800. Of the remaining \$34,195,000 non-federal share, \$26,242,000 is accounted for by land contributions, leaving \$7,953,000 as the local sponsor's financial commitment. Local funding currently available includes \$14,000,000 in dedicated 2004 bonds.

El Rio Medio Reach

The El Rio Medio Feasibility Study focuses on a 4.5 miles reach of the Santa Cruz River and adjacent lands from Congress Street on the south to Prince Road on the north, constituting a study area of approximately 3,080 acres. The feasibility study phase was initiated in January 2001. The Pima County Regional Flood Control District and the City of Tucson are the current non-Federal sponsors of the project, which is being conducted by the US Army Corps of Engineers. The total cost of the feasibility phase is \$3,427,000, which is being shared equally (50/50) between the Corps and the non-Federal sponsors. The primary purpose of the study is ecosystem restoration. Water supply recharge for later recovery and municipal use is a secondary project purpose. The study team is developing an initial array of ecosystem restoration alternatives, and a separate array of water supply recharge alternatives. The best of each of these alternatives will be selected and combined to create a final recommended plan using tradeoff analysis. The study team anticipates having the recommended plan complete by December 2007.

I-10 WIDENING

OVERVIEW

Interstate 10 (I-10) through Tucson carries an estimated 60 million vehicles per day. Arizona Department of Transportation (ADOT) recently began construction on widening I-10 in the City of Tucson from Prince Road to 29th Street. This project will widen I-10 from the current six lanes of freeway to eight lanes (including the addition of two auxiliary lanes). The widening began in January 2007 and it is expected to be completed by Spring 2010.

CONDITION OF FREEWAY

The downtown portion of I-10 was constructed in the early 1960s. This section of the freeway is one of the oldest in Arizona. It was reconstructed in 1996; however, the reconstruction (primarily concentrated on the frontage roads) did not fully prepare for future traffic demand. Once the current I-10 Mainline Widening project from Prince Road to 29th Street is completed in 2010, the I-10 mainline and frontage roads will be adequate to handle the traffic needs through the year 2030.

CLARK STREET BRIDGE AND UNDERPASS

The widening of the Clark Street underpass will create greater east-west connectivity in the downtown area. Currently, approximately 2000 vehicles drive across Clark Street every day. Commuters make half of the daily vehicle trips across Clark Street.

In addition to the widening of the underpass, the Clark Street Bridge will be moved approximately 100 feet to the north of the existing bridge as part of the circulation and drainage plan for Rio Nuevo. The bridge opening was expanded to 230 feet to accommodate 140 feet of pedestrian/bicycle facilities. The I-10 widening project will also accommodate the streetcar passing underneath.

COST & FUNDING

It is estimated that ADOT will have spent in excess of \$220 million by the completion of the I-10 widening from Prince Road to 29th Street. TIF funds in the amount of \$9 million have been dedicated to construction related to the Clark Street Underpass. Additionally, the City has committed another \$4 million (in non-TIF funds) for underground box culverts and drainage improvements on and around the site of the proposed new arena.

DOWNTOWN LINKS

OVERVIEW

Downtown Links is a roadway construction project recently initiated by the Tucson Department of Transportation that will provide links between Barraza-Aviation Parkway and I-10, Broadway Boulevard and the 4th Avenue shopping district, and downtown and the neighborhoods to its north. These Downtown Links have been conceived as a modest, four-lane roadway on the north side of the railroad tracks, enhanced pedestrian and bicycle access routes, and the connection of Barraza-Aviation Parkway to 22nd Street and I-10. Enhancements on this corridor will provide more efficient access to downtown, new and safer underpasses, railroad crossings and sidewalks.

Downtown Links is part of the long-range Regional Transportation Authority (RTA) plan that was approved by Tucson-area voters in May 2006. All of the projects contained in the plan, including Downtown Links, will be funded by a half-cent transportation sales tax that went into effect on July 1, 2006

HISTORY

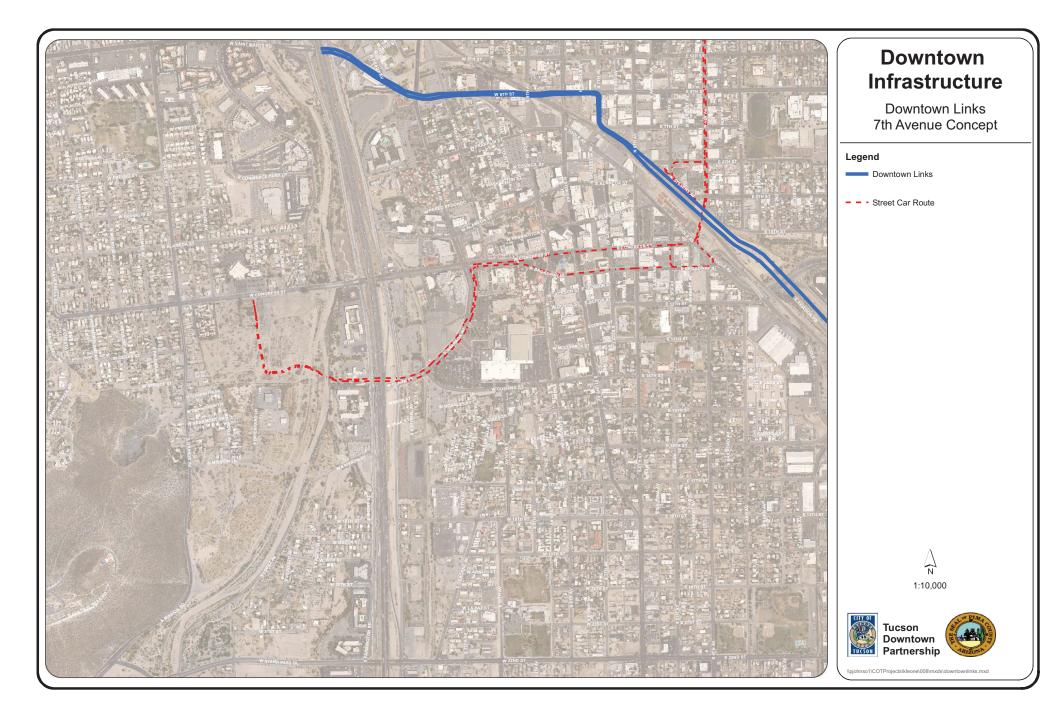
Moving traffic from the eastside of downtown Tucson to I-10 has been an ongoing debate since the 1970s. In 1972, plans for the Butterfield Parkway were rejected because the El Trajito Shrine, which was in the parkway's path, was placed on the National Register of Historic Places. In the early 1980s, Tucson's City Council directed staff to begin developing plans for the Aviation Parkway. After several routes for the Parkway were accepted and rejected, the downtown portion or "last mile" of Aviation Parkway was approved in 1985. However, in 1986 the voters turned down a vote to raise the sales tax by ½ cent and fund transportation projects that included money for the downtown leg of Aviation Parkway. Shortly after the election, many neighborhood and other community leaders began opposing the elevated 6-lane Aviation Parkway being built through downtown because it destroyed many historic buildings and cut off sections of the downtown, such as the Warehouse District and the 4th Avenue Business District.

In the late 1980s, the City of Tucson initiated the Downtown Land Use and Circulation Study (DLUCS) in response to citizen's concerns with a previous design concept and roadway alignment for the "last mile" of the parkway, through downtown Tucson. The DLUCS planning process allowed the community to develop a preferred alternative for the downtown section of the parkway. This new concept for the "last mile" was a four-lane roadway, which followed the Steven Avenue alignment, parallel to and north of the Southern Pacific Railroad. The new roadway would cross over 4th Avenue at about the same level as the railroad. It would dip down to meet 6th Avenue and then follow the Toole Avenue alignment to Stone Avenue. From this point, it would follow the Franklin Street alignment to Church Avenue at 6th Street, and would continue to I-10. The new roadway would provide a means to and from downtown and have bicycle and pedestrian pathways, as well as public art and urban design amenities. In addition, the design concept included a new roadway drainage system and major reconstruction of the Tucson Arroyo that would remove parts of downtown from the 100-year flood plain. In 1993, the

Mayor and Council approved the DLUCS Design Concept Report and in 1996, they approved the Barraza-Aviation Parkway General Plan.

At its meeting on December 12, 2006, the Downtown Links Citizen's Advisory Committee approved a concept to move forward for more detailed engineering and environmental study. The concept consists of a modest four-lane roadway starting at the Broadway/Barraza-Aviation Parkway Interchange and parallels the north side of the Union Pacific Railroad tracks and turns north along the existing Seventh Avenue alignment until it intersects with Sixth Street. The concept proceeds to the west and passes beneath a proposed railroad bridge in the proximity of Ninth Avenue. It is anticipated that this roadway will have vehicular connections to Fifth and Sixth Avenues and additional bicycle and pedestrian connections throughout.

The design concept phase of project development has begun and is anticipated to be complete by the end of 2007. Once the design concept phase is complete the final design phase will begin and is expected to take 18 to 24 months. Construction is expected to begin when funding from the RTA becomes available, currently in 2011.



PARKING

OVERVIEW

ParkWise, the City of Tucson Department of Transportation parking division, is responsible for on-street parking and a number of parking garages and lots in the downtown area. The Division also operates the Tucson Inner City Express Transit, the free downtown shuttle service, and administers both residential and non-resident parking permit programs throughout the community. ParkWise is a fully self-supporting program with both capital and operating budgets being paid through user fees.

OFF-STREET PARKING REQUIREMENTS

ParkWise has developed a 5-year off-street parking master plan for the core of downtown based on the same development assumptions used in this study. It is estimated that 13,000 parking spaces will be developed in new parking structures – 6,000 to replace existing surface parking, and 6,000 new spaces to meet the demand of new development. The projected cost for all of these structured spaces is \$230 million. It is anticipated that approximately \$73.5 million of TIF assistance will be required over the life of the district to help cover the shortfall of revenues to operating and debt service expenses. The timing of construction of each parking structure will need to be carefully considered to coincide with parking needs in order to assure the financial strategy can be successful. Prior to the TIF district terminating, it is anticipated that the off-street parking system will be fully self-supporting.

ON-STREET PARKING REQUIREMENTS

Downtown Tucson has a basic on-street metered parking system. Consideration should be given to an upgrade of this approach that would replace meters with a pay-by-space system and offer multiple payment options to customers. The pay-by-space system would also allow ParkWise to implement a pricing strategy that would eliminate the need for on-street time limits that are often a source of customer frustration. The cost to implement such a system is approximately \$3 million – with \$1.5 million in TIF assistance necessary.

PARKING INCENTIVES

The ParkWise Program and Commission are open to considering incentives such as a "first hour free" program in off-street facilities (on-street parking would not be included). This program would be available to all downtown customers as opposed to select ones. One hour free in garages may be a good marketing tool and should not significantly impact the revenue needed to build and provide the parking needed to support downtown revitalization. Longer periods of time, such as two-hours free, or overall rate reductions, would significantly impact revenue and could be easily abused. These incentives would also require a significantly larger contribution from the TIF district to make the system work.

See appendix for further details on parking.

ParkWise/Rio Nuevo Parking Funding Partnership

Fiscal Year	08	08	09		09		10		10		11	11	12	12
	PW	RN		PW	RN		PW		RN		PW	RN	PW	RN
Contribution (millions)	\$ 38.4	\$ 3.9	\$	26.4	\$	6.5	\$	87.5	\$	14.5	\$ 53.9	\$ 16.9	\$ 23.9	\$ 15.6

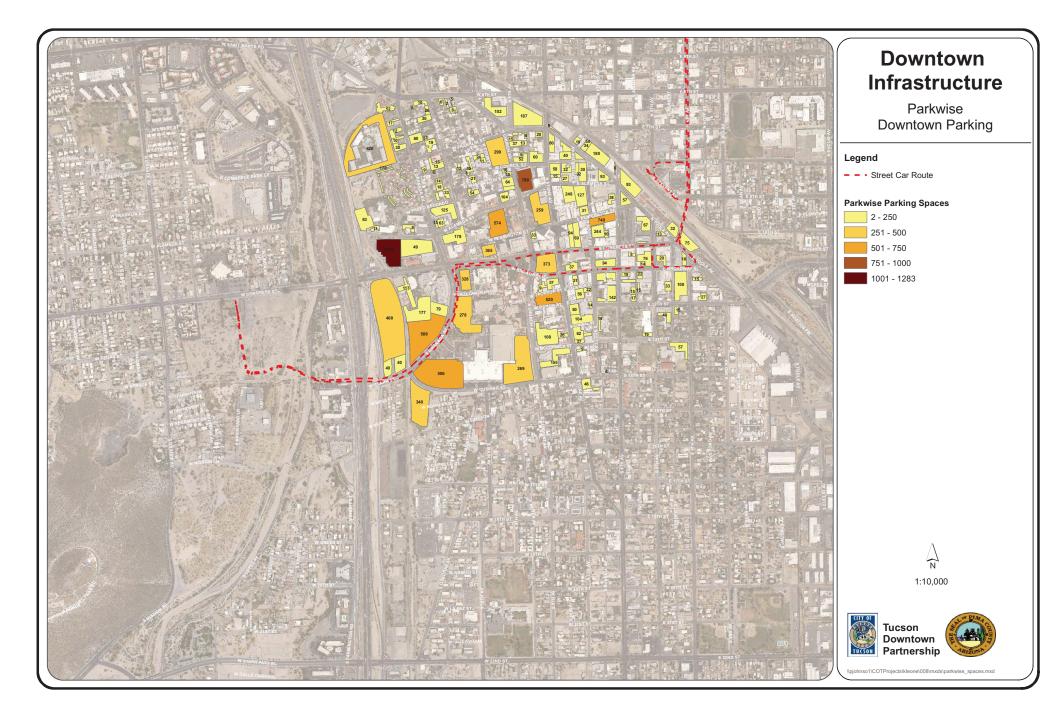
Fiscal Year	13	13	14	14	15	15	16	16	17	17
	PW	RN	PW	RN	PW	RN	PW	RN	PW	RN
Contribution	\$ -	\$ 10.2	OP*	\$ 6.5	OP	\$-	OP	\$-	OP	\$ -

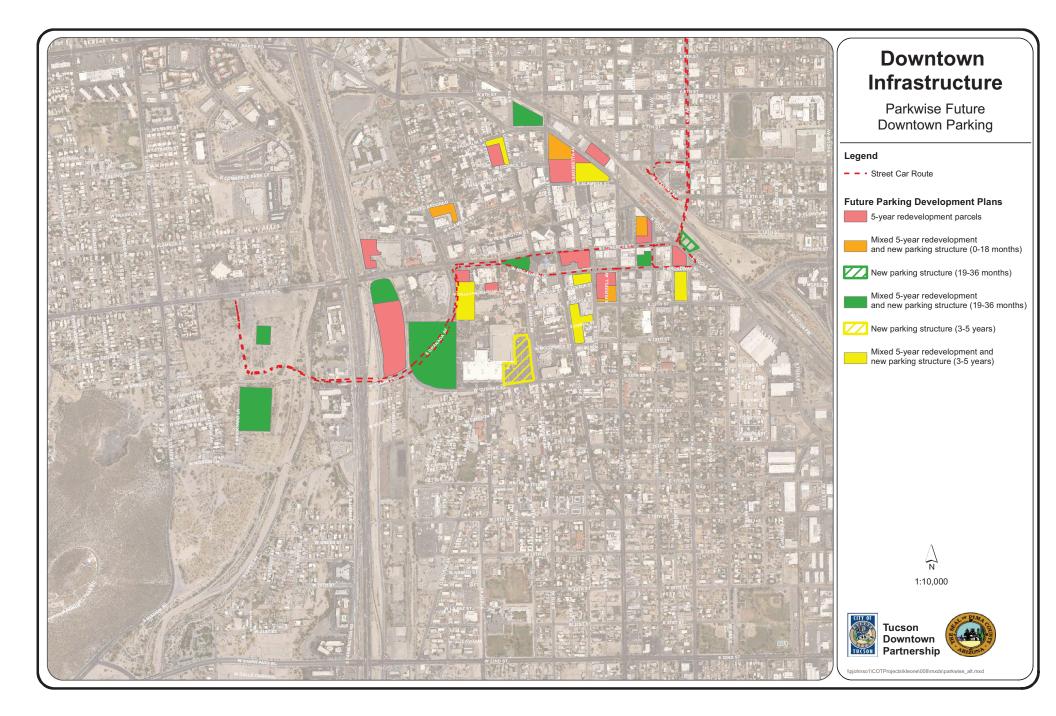
Fiscal Year	18	18	19	19	20	20	21	21	22	22
	PW	RN								
Contribution	OP	\$ -								

* OP = operating & debt service expenses only

Perio	d 1	Pe	riod 2	Per	iod 3	Perio	d 4
PW	RN	PW	RN	PW	RN	PW	RN
38.4	3.9	87.	5 6.5	53.9	16.9	0	10.2
26.4			14.5	23.9	15.6		6.5
64.8	3.9	87.	5 21	77.8	32.5	0	16.7

	Tota	ls			Totals with R	N backed o	ut of PW Numbers
	PW	RN			PW	RN	
	64.8	3.9			60.9	3.9	
	87.5	21			66.5	21	
	77.8	32.5			45.3	32.5	
_	0	16.7			0	16.7	
_	230.1	74.1	304.2	-	172.7	74.1	246.8





MODERN STREETCAR

OVERVIEW

The Modern Streetcar is currently undergoing preliminary engineering and will connect the University of Arizona to downtown Tucson along a four-mile route. It is anticipated that the construction of the Modern Streetcar will be completed in early 2010.

BACKGROUND

In the fall of 2004, the Tucson Department of Transportation (TDOT) began a federally sponsored Major Transit Investment Study now referenced as the Tucson Urban Corridor Study, to identify potential transit solutions in central Tucson. The study area boundaries are Grant Road on the north, 22nd Street on the south, Grande Avenue on the west and Campbell Avenue on the east. The study's goals are to provide a sustainable transportation investment within the central core that is able to:

- Connect major activity centers
- Create economic development
- Support population and employment growth
- Improve transit service
- Mitigate parking constraints

PROJECT TIMELINE

Phase 1 - 2004 – 2007 - Alternatives analysis and adoption of the locally preferred alternative

Phase 2 - 2006 – 2008 - Draft and final environmental assessment and preliminary engineering

Phase 3 - 2008 - 2010 - final design, vehicle testing, and construction

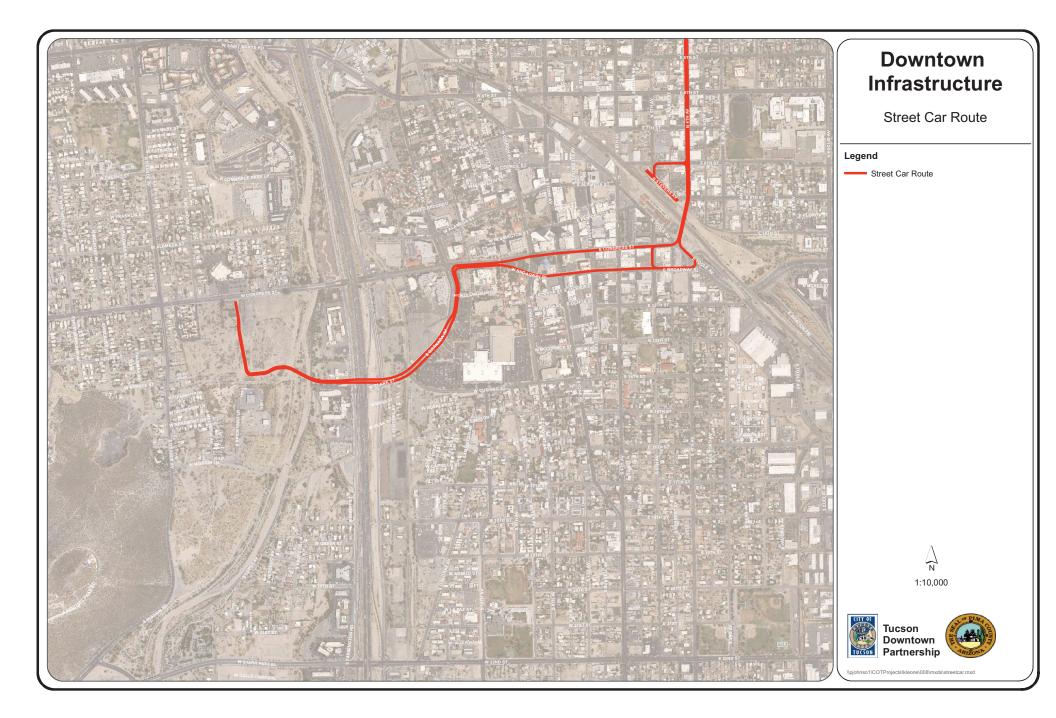
STREETCAR ALIGNMENT

In the downtown area, the streetcar will run west from the 4th Avenue Underpass along Congress and turn south on Granada and connect again to Congress on the west side of the freeway. Heading east, the streetcar runs along Broadway from Church Avenue to the 4th Avenue Underpass. Transit-oriented development opportunities are maximized on this route.

COST & FUNDING

The Modern Streetcar project is currently being advanced through the Federal Transit Administration (FTA) project development process to secure federal funding. Local funding for the Modern Streetcar project was approved by Pima County voters as part of the successful Regional Transportation Authority Plan in May 2006. It is anticipated that the construction of the Modern Streetcar will be funded by a 50 percent federal/local share.

Additional funding is needed for the extension of the streetcar from its original terminus at the center of the Mercado at Menlo Park on Avenida del Convento, to its approved terminus on West Congress Street (see Streetcar map). Costs are estimated at \$10 million.





CONGRESS - BROADWAY ONE WAY MODERN STREET CAR LEFT SIDE RUNNING

BI PE

REBE

0

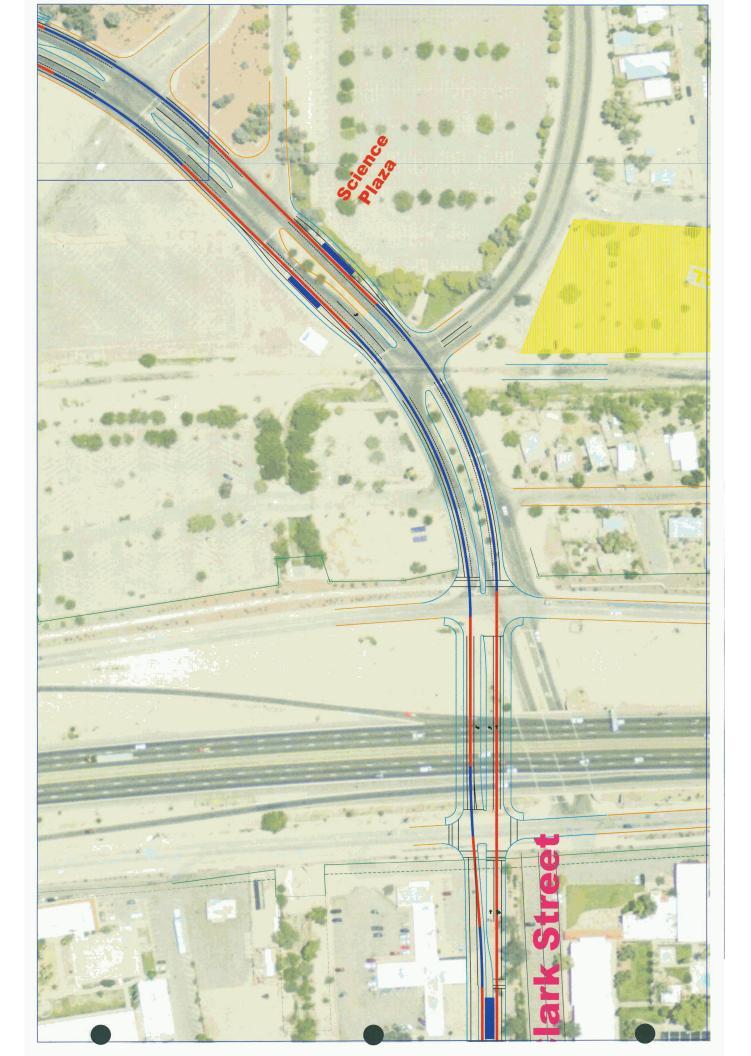
LOOP FOR OPT AND MODERN STREET CAR

rel

+

c:/dwg/tucson/splitmsc left side running\1-4-07-final.dwg













CITY OF TUCSON RIGHT-OF-WAY IMPROVEMENTS/STREETSCAPE

OVERVIEW

The majority of Tucson's downtown streetscape is owned by the City of Tucson (COT). For purposes of this report, streetscape includes all sidewalks, landscaped areas, plazas, parks, and streets located within the public right-of-way (ROW). Within these areas, specific elements include trees, shrubs, flowering plants, potted plants, lawns, sidewalks, plazas, crosswalks, street lighting, traffic lighting, pedestrian lighting, benches, trash receptacles, public art, drinking fountains, public restrooms, parking meters, information and security kiosks, and signage.

The focus of this study is the streetscape within the commercial business district, the TCC, and portions of the west Congress/Mercado district. Residential neighborhoods were not considered for this study.

AGE OF INFRASTRUCTURE

Much of the downtown streetscape has become physically and functionally obsolete. The concrete sidewalk, some almost a century old, is cracked and heaving. Brick surfaces vary in age and condition and many date back to the urban renewal efforts of the 1960s. Street lighting varies as well, from turn-of-the-century historic globe lighting to heavily oxidized 1970s modern fixtures. Much of the street furniture (e.g., benches, trash receptacles, and kiosks) are dated and dilapidated.

ASSESSMENT OF CAPACITY

A large portion of the public ROW area lacks the infrastructure necessary for elevating Tucson's decaying downtown environment to modern metropolitan standards. Reclaimed water lines, necessary for irrigating an expanded landscape, are not in place. Electrical service for lighting, irrigation, electronic parking meters, and special events will have to be installed. Water harvesting, including rain water and stormwater collection, can be implemented, but will require careful pre-planning and coordination with streetscape improvements.

Lighting needs to be thoroughly evaluated and a comprehensive array of streetlights, landscape lighting, façade lights, pedestrian lights, and festival lights needs to be implemented. The conduits, pull boxes, outlets, and fixtures that support this system need to be installed.

Pavers need to be considered carefully. Concerns regarding heat island effect, porosity, safety, and durability need to be balanced with value-enhancing style selections.

An extensive drought-tolerant native vegetation landscape should be developed and implemented. Consideration should be given to creating bio-diverse habitats within landscaped areas. Water harvesting combined with reclaimed water should be utilized in place of depleting potable water resources.

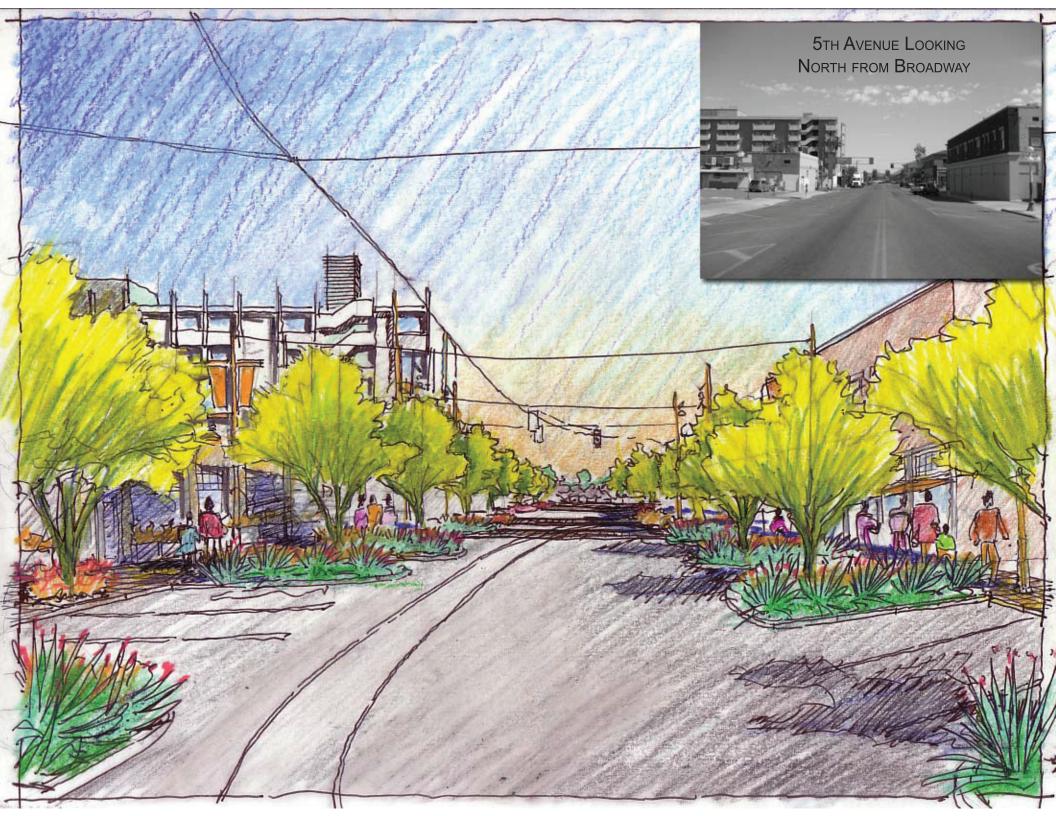
PILOT STREETSCAPE

It is recommended that a pilot streetscape be constructed as an initial demonstration project. The pilot would cover the east end of downtown (5th Avenue from Broadway to Toole, Broadway Boulevard from 5th Avenue to 4th Avenue, 4th Avenue between Broadway and Toole, Congress Street from 4th Avenue to Arizona Avenue, and Toole Avenue from 4th Avenue to 5th Avenue). The estimated cost for this pilot streetscape is \$3.1 million (this is not broken out in the budget breakdown on the following page, but is included in the totals in the breakdown).

COST & FUNDING

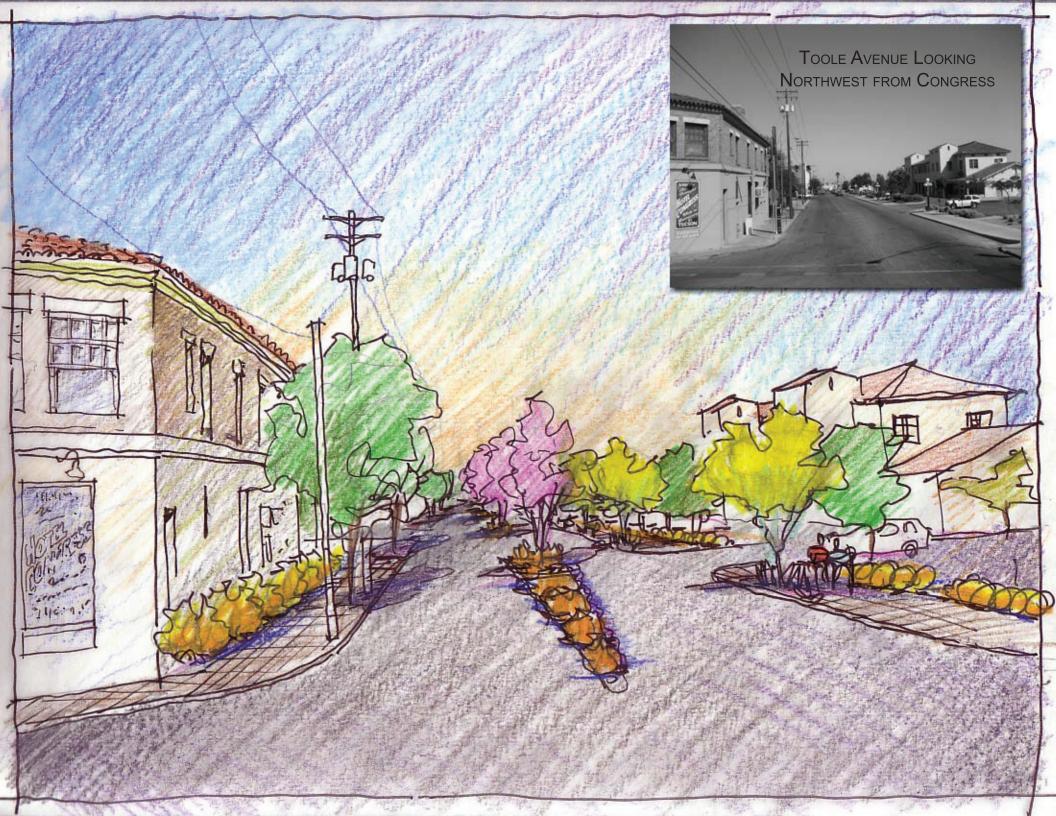
Funding for implementing this comprehensive streetscape plan is estimated at \$107 million. The majority of streetscape improvements are anticipated to occur along the existing built environment. Future development projects may be responsible for funding portions of the streetscape bordering their project. A budget breakdown for the streetscape is on the following page.

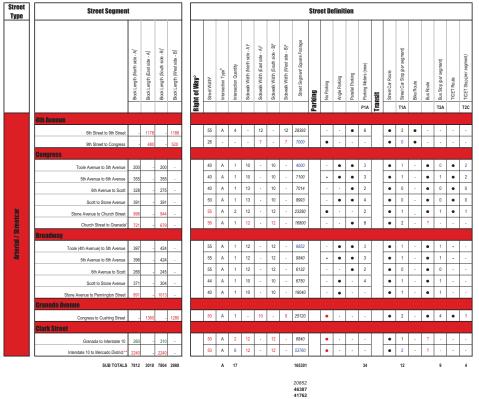
City of Tuc	son Right-of-Way Improvements/Street	scape	•
	Budget Breakdown		
Right of Way	Pavers through intersections	\$	402,950
Parking	Solar power meters, pay-by-space	\$	502,750
Transit	Transportation stops (streetcar, bus)	\$	237,500
Public Interest	Signage (traffic, parking, other)	\$	1,094,200
Landscaping	Planters, plants	\$	5,676,448
Hardscape	Pavers, tree grates	\$	6,471,314
Lighting	Street lights, landscape lights, upgraded caternary poles, traffic signals, festival lights	\$	10,876,920
Furnishings	Bollards, trash bins, seating, fountains	\$	4,946,000
Features + Amenities	Shard structures, restrooms, speakers	\$	4,510,113
Infrastructure	Irrigation lines, water lines, sewer (for restrooms), electrical, fountains	\$	24,360,365
Sub-total		\$	59,078,560
Demolition	Remove existing concrete, pavers, etc.	\$	2,888,528
Escalation	1% per month	\$	15,861,026
Contractor Fees	23%	\$	17,900,466
A/E Fees	20%	\$	19,145,716
Public Art	1% of budget	\$	1,148,743
Sub-total		\$	116,023,039
Additional Streetscapes:			
Pedestrian Bridges	Civic plaza/arena, south of 4th Avenue	\$	3,000,000
TCC Landscaping	Not included in TCC/Arena budget	\$	19,500,000
Mercado/Origins	Upgrade landscape	\$	537,600
Congress St Grande/ Silverbell	Extension of sidewalk and landscaping	\$	1,080,000
Sub-total		\$	140,140,639
Potential Deducts	Budgeted elsewhere in report	\$	23,205,400
Sub-total		\$	116,935,239
Streetscapes Outside Rio Nuevo Boundary	Deduct streetscapes out of the boundaries of Rio Nuevo	\$	9,774,895
Streetscape Total			6 107,160,344

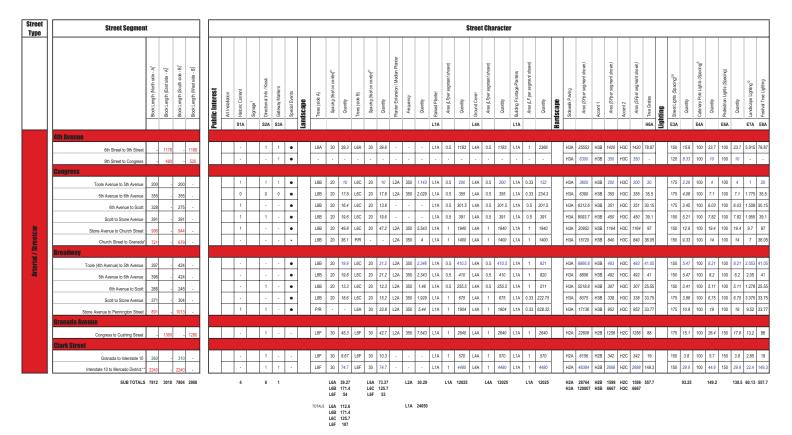












Street Type	Street Segment	Amenities	Notes
	Block Length North side. A ¹ Block Length Rant side. A ¹ Block Length Start side. A ¹ Block Length Starth side. B ¹ Block Length West side. B ¹	Rinki Shi Tinuga 203 Barchadis 204 Danimly 204 <	Saver Lines (1)
		E F8A F6C F9A F5A F7A F7D F1C F10A Ž A2A A3A A4A A1A Image: Comparison of the comparison of t	
	Attr Avenue 6h Street to 9h Street 1178 1188 9h Street to Congress 480 520	100 23.7 100 23.7 200 11.8 50 47.3 50 47.3 50 47.3 4 1 63.00 - 7.867 2.386 2 286 2.66 3.88 2 2866 3.88 2 286 3.333 1 1 1 1 1 2 2 3.333 1 1 1 1 2 2 2 3.333 1 <th1< th=""> <th1< th=""> 1</th1<></th1<>	286 Ziele This segment accounted for in 4th Ave. underpass budget (TDOT)
	Conjurcess Toole Avenue to 5th Avenue 200 - 200 - 5th Avenue to 6th Avenue 355 - 355 -		0 400 This segment accounted for in 4th Ave. underpass budget (TDOT) 0 710
	6th Avenue to Scott 328 - 275 -	100 6.03 100 6.03 200 3.02 50 12.1 50 12.1 50 12.1 4 1	3 603
	Scott to Stone Avenue 391 - 391 -	150 5.21 100 7.82 300 2.61 50 15.6 50 15.6 4 1 20.85 2.807 0.521 782 782 2.234 1.117 782	2 782
fcar	Stone Avenue to Church Street 996 - 944 -	150 129 100 194 300 647 50 388 50 388 50 388 4 1 51.73 51.73 6467 1.233	
Stree	Church Street to Granada* 721 - 679 -	150 9.33 100 14 300 4.67 50 28 50 28 50 28 - 1 37.33 - 4.667 0.933 1400 1400 4 2 1400	00 1400
a / 2	Broadway		This segment accounted for in 4th Ave. underpass
Arterial / Streetcar	Toole (4th Avenue) to 5th Avenue 397 - 424 -	Iso 5.47 100 8.27 300 2.74 50 16.4 50 </td <td>1 821 budget (TDOT) 0 820</td>	1 821 budget (TDOT) 0 820
	5th Avenue to 6th Avenue 396 - 424 - 6th Avenue to Scott 266 - 245 -		1 511
	Scott to Stone Avenue 371 - 304 -	150 4.5 100 6.75 300 2.25 50 13.5 50 13.5 - 1 17.36 17.36 2.25 0.45 675 675 1.92 0.964 675	5 675
	Stone Avenue to Pennington Street 891 - 1013 -	150 12.7 100 19 300 6.35 50 38.1 50 38.1 - 1 48.96 6.347 1.269 1904 1904 5.44 2.72 1904	14 1904
	Granada Avenue		
	Congress to Cushing Street - 1360 - 1280	150 17.6 100 26.4 300 8.8 65 40.6 65 40.6 65 40.6 - 2 59.08 - 8.8 176 2640 7.543 3.771 2640	10 2640
	Granada to Interstate 10 260 310 - Interstate 10 to Mercado District** 2240 - 240 -	200 2.85 100 5.7 400 1.43 65 8.77 65 8.77 - 1 13.3 - 1.9 0.285 570 570 1820 0.814 570 200 22.4 100 44.8 400 11.2 65 68.9 65 8.9 - 2 104.5 - 14.33 2.24 4480 4480 12.8 6.4 4480	0 570 I10 bridge overpass not included in street segment length This portion included in Origins + Mercado This portion included in Origins + Mercado
	SUB TOTALS 7812 3018 7804 2988	110.8 149.2 55.39 283.6 283.6 283.6 283.6 213 381 208.2 49.74 11.08 14921 14921 14921 42.63 21.32 1492	21 14921

Street Type	Street Segment						Street Definition																				
		Block Length (North side - A)	Block Length (East side - A)	Block Length (South side - B)	Block Length (West side - B) ¹	Right of Way ²	Street Width?	Intersection Type ⁶	Intersection Quantity	Sidewalk Width (North side - A) ²	Sidewalk Width (East side - A) ²	Sidewalk Wildh (South side - B)2	Sidewalk Width (West side - B) ²	Sireet Segment Square Foodage	Parking	No Parking	Angle Parking	Paralel Parking	PL4 Parking Meters (new)	Transit	Street Car Route	Street Car Stop (per segment)	Bike Route	Bus Route	(traubas tad) dots sng	TICET Route	ThCET Stop (per segment)
	Congress Street																										
	Granada Avenue to Interstate 10*	900		920			55	С	3	12		12		21840		•		-						•	2	•	2
	Interstate 10 to Santa Cruz River	600		600			55	с	4	12	-	12		14400	1	•		-		1	-	-	-	•	2	•	1
	Santa Cruz River to Grande Avenue*	1280	-	1280			56	A	1	12		12		15360	1	•		-	•		-	-	-	•	2	•	0
	Grande Avenue to Silverbell Ave.	1000		1000			56	с	3	12	-	12	-	24000		•	-	-	•	1	-		-	•	-	-	-
	6th Avenue to Stone																										
	6th Street to Underpass		734		674		55	В	2	-	12	-	12	16896		-		٠			-	-	-	٠	1	•	2
	Underpass to Alameda		238		153		26		-	-	9	-	9	3519		-		٠			-	-	-	٠	2	٠	2
	Alameda to Congress		594		715		55	в	1	-	12	-	12	15708		-		٠	2			-		-		-	+
	Congress to Broadway Blvd.		235		235		60			-	12	-	12	5640		-		٠	2		-	-		•	0	-	•
	Broadway to 12th Street		396		396		55	В	1	-	12	-	12	9504		-	•	•	6		-	-	-	٠	0	-	•
	12th Street to 13th Street		385		385		55	В	1	-	12	-	12	9240		-		٠	•		-	-	•	•	1	-	•
Arterial	13th Street to 14th Street		396		396		55	В	1	-	12	-	12	9504		-	-	٠			-	-	-	•	0	-	•
Arr	Stone Avenue																	-									
	6th Street to Toole Avenue		362		384		40	-	•	-	9	-	9	6714		-	•	٠			•	-	•	٠	0	-	·
	Toole Avenue to Alameda	-	623		623		55	В	2	-	12	-	12	14952		•		٠	•		-	-	•	-	-	•	·
	Alameda to Pennington		481		469		60	В	1		12	-	12	11400		-	•	٠	2			-		-	-	•	·
	Pennington to Congress		293		291		47	•	•	•	10	•	10	5840		٠	•	-			•	-	•	-	•	•	·
	Congress to Broadway Blvd.		246		248		52	•	•	•	10	•	10	4940		•	•	٠	2		•	•	•	٠	0	•	·
	Broadway Blvd. to Cushing		1030		910		50	В	3	-	10	-	10	19400		-	-	٠	4		-	-	-	•	1	-	·
	6th Street																		_								
	4th Avenue to 7th Avenue	1010		1137			55	В	3	12	•	12	-	25764		٠	•	-	•		-	-	•	٠	1	•	·
	7th Avenue to Granada Avenue	1516	-	1705			55	В	3	12	-	12	•	38652		•	-	-	•		-	-	•	•	1	-	·
	Toole Avenue																										
	4th Avenue to 6th Avenue	840		757	•		60	A	3	10	•	10	•	15970		•	•	-	•		-	•	•	•	0	•	·
	6th Avenue to Stone	1025	-	863			44	A	1	10	·	10	-	18880		•		-	•		•	-	•	-	-	·	·
	SUB TOTALS	8171	6013	8262	5879			A B C	4 15					224357					18						10		6
								U	6					198593													

198593 5640

Street Type	Street Segment	Street Character
	Book Length, North Sela - A ^j Book Length, Routh Sela - A ^j Book Length, Routh Sela - Si Book Length (Nees Sela - Si Book Length (Nees Sela - Si	Profile Interest Art hataflation 4.1 hataflation Statution 5.9 magnitudes Spangy Disconsition (Kook, Kook,
	Congress Street Granada Avenue to Interdate 10° 900 - 920 - Interdate 10 to Santa Cruz River 600 - 600 - Santa Cruz River to Granda Avenue" 1280 - 1220 - Granda Avenue to Silverbell Ave. 1000 - 1000 -	1 -
Arterial	6th Avenue to Stone 6th Avenue to Underpass - 734 674 Underpass to Alameda - 238 1133 Alameda to Congress - 564 775 Congress to Brandway Birdt - 225 - 225 Brandway 15 Abreet - 386 - 386 12th Street to 13th Street - 385 - 385 13th Street to 14th Street - 306 - 306	N N
Art	Stone Avenue 382 384 6h Sheet to Toole Avenue - 362 - 384 Toole Avenue to Alamedo - 6623 - 663 Alamedo to Pennington - 481 - 469 Pennington to Compress - 283 - 281 Congress to Broadwey Bivt. - 246 - 248 Broadwey Bivt. - 1030 - 910	1 1
	6th Street 4th Avenue to 7th Avenue 1010 1137 - 7th Avenue to Granada Avenue 1516 - 1706 - Toole Avenue 1516 - 1705 - 4th Avenue to Sth Avenue 640 - 757 - 6th Avenue to Sth Avenue 1025 - 683 - SUBIDIALS 8171 612 825 37	V L6B 20 50.5 L6C 20 86.9 · · L LB 1 2/47 LB 1
	SUBIUIALS BIT 6013 8262 SATA	/ 2 4 LBA 244.9 LBA 224.7 LBG 30/5 LTA 3465 LTD 16218.3 LTA 1150.05 HTA 162240.3 HTB 9013.35 HTC 9013.35 HD6 8013.5 H28 152.5 LBE 654.5 LTA 15.31 LTB 11763.3 LTB 12773.7 H2A 31356 H2B 1742.5 H2C 174

Street Type	Street Segment	Amenities	Notes
	Book Langth (Nem 140 - A/ Book Langth (Nem 140 - A/ Book Langth (Scuth 140 - B) Book Langth (Nemi 440 - 5)	Almost Shinuga Big	
	Congress Street		
	Granada Avenue to Interstate 10* 900 - 920 - Interstate 10 to Santa Cruz River 600 - 600 -	175 10.4 150 12.1 350 5.2 75 24.3 75 24.3 - 2 200 6 150 8 350 3.43 75 16 75 16 - 1 20 - 4 0.6 1200 1200 3/20 17/4 1200 1200 1200 12/20	This segment not included in budget (covered in 110 overpass budget by TDOT)
	Santa Cruz River to Grande Avenue* 1280 - 1280 -	200 6.4 150 8.53 360 3.66 75 17.1 75 17.1 75 17.1 7 17. 1 7 17. 1 7 17. 1 7 17. 1 1 21.33 - 4.267 0.64 1 280 1280 1280 1280 1280 1280 1280 128	North side of street improvmenets only, south side of street improvmenets by private development
	Grande Avenue to Silverbell Ave. 1000 - 1000 -		* Phase II (4-years out) SF cost applied to this segment
	6th Avenue to Stone		
	6th Street to Underpass - 734 - 674	150 9.39 250 5.63 300 4.69 50 28.2 50 28.2 50 28.2 1 23.47 - 4.693 0.339	
	Underpass to Alameda - 238 - 153	150 2.67 300 1.3 50 7.82 50 7.82 10 2.6 1	
	Alameda to Congress - 594 - 715	150 8.73 250 5.24 300 4.38 50 26.2 50 26.2 50 26.2 5 26.2 5 26.2 5 26.2 5 1 1 2 21.82 - 4.363 0.873	
	Congress to Broadway Blvd 235 - 235	150 3.13 250 1.88 300 1.57 50 9.4 50 9.4 - - 1 7.833 - 1.567 0.313 470 470 1.343 0.571 470<	
	Broadway to 12th Street - 396 - 396	150 5.28 250 3.77 300 2.64 50 15.8 50 15.8 - - 1 132 - 2.64 0.528 • 792 792 782	
	12th Street to 13th Street - 385 - 385	150 8.13 250 3.08 300 2.57 50 15.4 50 15.4 5 15.4 - - 1 7.7 - 2.567 0.513 770 - - 770	
Arterial	13th Street to 14th Street - 396 - 396	150 5.28 250 3.77 300 2.64 50 15.8 50 15.8 50 15.8 50 15.8 - - 1 13.2 - 2.64 0.528 792 792 2263 1.131 792 792 782	
Art	Stone Avenue		This segment not included in streetscape budget
	6th Street to Toole Avenue - 362 - 384	150 4.97 150 4.97 300 2.49 50 14.9 50 14.9 - - 1 11.72 - 2.487 0.497 746 746 - 746 746 - 746 746 746 - 746	(covered in Barrazza Aviation parkway budget)
	Toole Avenue to Alameda - 623 - 623	150 8.37 150 8.37 300 4.15 50 24.9 50 24.9 50 24.9 1 20.77 - 4.153 0.831 1246 1246 3.56 1.78 1246 1246 1246	
	Alameda to Pennington - 481 - 469	150 6.33 150 6.33 300 3.17 50 19 50 19 - - 1 15.83 - 3.167 0.633 950 950 2.714 1.357 950 <th></th>	
	Pennington to Congress - 293 - 291	150 3.89 150 3.89 300 1.95 50 11.7 50 11.7 50 11.7 1 9.177 - 1.947 0.389	
	Congress to Broadway Blvd 246 - 248	150 3.29 150 3.29 300 1.65 50 9.88 50 9.88 - - 1 8.233 - 1.647 0.329 494 494 1.411 0.706 494 494 494 494 1.411 0.706 494 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 494 494 1.411 0.706 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201<	
	Broadway Blvd. to Cushing - 1030 - 910	150 12.9 150 12.8 300 6.47 50 38.8 50 38.8 75 25.9 - - 2 32.33 - 6.467 1.283 • 1940 1940 5.43 2.771 1940 1940	
	6th Street	150 14.3 250 8.59 300 7.16 50 42.9 50 42.9 50 42.9 10 5.5 4 35.78 - 7.157 1.431 • 2147 8.134 3.067 2.147 2.147	
	4th Avenue to 7th Avenue 1010 1137 -	150 14.3 260 8.59 300 7.16 50 42.9 50 42.9 10 5.5 4 35.78 7.157 1.431 • 2147	This segment not included in streetscape budget
	7th Avenue to Granada Avenue 1516 - 1705 -		(covered in Barrazza Aviation parkway budget)
	Toole Avenue	150 10.6 150 10.6 300 5.32 50 31.9 50 31.9 50 31.9 10 6 1 28.62 28.62 5.323 1.065 • 1597 1597 4.563 2.281 1597 1597	
	4th Avenue to 6th Avenue 840 - 757 -		
	6th Avenue to Stone 1025 - 863 - SUB TOTALS 8171 6013 8262 5879	128.7 109.4 64.78 398.1 377 364 18.5 23 323.4 56.29 66.26 12.87 19878 19108 54.59 27.3 19878 19108	

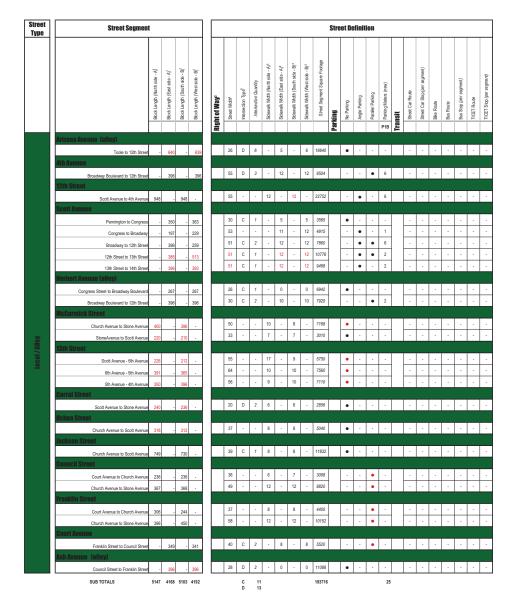
Street Type	Street Segme										;	Stree	et Dei	initi	on												
		Block Length (North side - A) ¹	Block Length (East side - A^{β}_{i}	Block Length (South side - B)	Block Length (West side - Bj	Right of Way ²	Street Width?	Intersection Type ⁹	Intersection Quantity	Sidewalk Width (North side - A) ²	Sidewalk Width (East side - A)2	Sidewalk Width (South side - B) ^{β}	Sidewalk Width (West side - B)2	Street Segment Square Foolage	Parking	No Parking	Angle Parking	Paralel Parking	Parking Meters (new)	Transit	Street Car Route	Street Car Stop (per segment)	Bike Route	Bus Route	Bus Stop (per segment)	TICET Route	TICET Stop (per segment)
	Eah Buonne					ä									Pa				P1B	Ë					T2B	_	_
	5th Avenue					_	55	D	1		12		12	9996			•	•	6								
	Toole to Broadway		374		459		55	c	1		12		10	8712			•	•	6								
	Broadway to 12th Street 12th Street to 13th Street		396 380		396 396		55	D	1		12		10	8520		-		•	6	_							
	Church Avenue	-	380	-	396			-										-	-						_		
	6th Street to Franklin Avenue		440		440		50	с	1		5		5	4400				•							-		
	Franklin Avenue to Alameda		751		744		49	с	2		10		8	13462		•								•	1		
	Alameda to Pennington		425		383		59	с	1		10		8	7314	ł	•								•	0		
	Pennington to Congress		261		252		50		-		9		10	4869		-		•	2		-				-		
	Congress to Broadway		243		208		50		-		12		12	5412	1	•								-	-		
	Broadway to Ochoa (La Placita)		410		440		50	D	2		12.5		14	11285	1	-	•	•	4					•	1		
_	Ochoa to Cushing Street (Convention)		760		810		50	D	2		12		12	18840	1	-	•	•			-	-	-	•	1	-	•
Collector Local	Granada Avenue																		-								
tor	6th Street to Franklin		692		692		51	с	1	-	10	-	11	14532		-	-	•			-	-	-	•	4	-	•
	Franklin to Alameda		896		896		35	с	2		10	-	10	17920	1	•					-	-		-	-		
	Alameda to Congress		320		312		47		-		9		10	6000	1	•					-			•	0		•
	Alameda Street																										
	Toole to Stone Avenue	711	-	815			40	С	1	10	-	10		15260		-	-	٠	2		-	-	-			-	•
	Stone to Granada	1052	-	976			40		-	10	-	10		20280		-	-	•	2		-	-	-		-	-	
	Pennington Street																										
	6th Avenue to Stone Avenue	784	-	755			48		-	8		8		12312		-	•	٠	4		•						•
	Stone Ave. to Church Ave.	295	-	292			32		-	8	-	8	•	4696		-	•	٠	2		-		•				•
	Church Avenue to Congress Street (E/W)	660		640			45	•	-	0	-	0		0		•					-				•	•	•
	Church Avenue to Congress Street (N/S)		140	.	160		45	D	1		8		8	2400		•									•		•
	Cushing Street							_			_			_	_						_						
	Stone Avenue to Church Avenue	550	-	550			48	•	-	10	•	10	•	11000		-	•	٠	•		-	•	•	•	•	•	·
	Church Avenue to Granada Avenue	1850		1850			45	•	-	10	-	8	•	33300		-	•	٠	·		-	•	•	٠	2	·	•
	SUB TOTALS	5902	6488	5878	6588			C D	9 7					230510					34						9		

92810 4356

Street Type	Street Segment	Street Character
	Image: Second	Image: light of the sector of the light of the sect
	12th Street to 13th Street - 380 - 396 Church Avenue	
	6th Street to Frankfin Avenue - 440 - 440 Frankfin Avenue to Alameda - 751 - 744 Alameda to Pennington - 425 - 383 Pennington to Corgensa - 261 - 252 Congress to Brandeny - 426 - 284	1 .
Collector Local	Original al activity Exit Exit Brashwy to Ochce (La Placita) - 410 - 440 Ochce to Cushing Street (Convention) - 780 - 810 Granada Avenue - - 605 Street to Frankin - 662 - 692	1 1
Collec	Franklin to Alameda - 896 - 896 Alameda to Congress - 320 - 312	- 100 7.9 2.4 - - - - - - 100 7.9 2.4 - - - - - 100 7.9 2.4 - - - - - 100 7.9 2.4 - - - - 100 7.9 2.4 - - - - 100 7.9 2.4 - - 100 7.9 2.4 - - 100 7.9 2.4 - - 100 1.9 - 100 1.9 - 100 1.9 - 100 1.9 - 100 1.9 1.9 1.9 1.9 </td
	Alameda Street Toole to Stone Avenue Titl Bits Stone to Granada Tots Pennington Street	- 20 272 12A 360 4 L1C 0.5 763 L1C 0.3 503.58 + H3A 1734 H3B 763 H3C 763 50.87 - 100 53 38.15 - 1 - - - 12A 360 6 L1C 0.5 104 L1C 0.3 503.58 + H3A 192.5 H3B 104 H3D 763 10.7 10 63 38.15 - - 100 0.3 507 + 100 0.3 507 + 100 0.3 507 + 100 0.3 507 + 100 0.3 507 +
	Other production 6th Avenue to Stone Avenue 784 755 - Stone Avenue 5tone Avenue 285 282 - Church Avenue to Congress Street (EVN) 660 - 640 - Church Avenue to Congress Street (IVS) - 140 - 160	1 .
	Stone Avenue to Church Avenue 550 - 550 - Church Avenue to Granada Avenue 1850 - 1850 -	1 - 1 - 1 - 1 - - - - - L1 0.25 275 L1 0 0 - 1 - - 1 - - - - L1 0.25 275 L1 0 0 - - - - L1 0.25 275 L1 0 0 - - - - L1 0.25 275 L1 0 0 - - 1 0 1 100 867 - 1 0 0 1 1 0 1 0 0 1 1.375 - 1 0.25 25 L1 0 0 1 1.30 1 </td
	SUB TOTALS 5802 6488 5878 6588	8 2 6 L&A 212.9 L&A 175.5 L2B 5568 L1C 8670 L1D 8670 L1C 6635.8 H1A 133508.6 H1B 9631.7 H1C 9631.7 885.8 152.2 248.6 43.35 L6B 164.9 L&C 142.1 L2A 31 L6D 95.4 L&D 95
		TOTALS LGA 388.4 L1C 15305.83 LGB 164.9 LGC 142.1

L6B 164.9 L6C 142.1 L6D 190.4

Street Type	Street Segme	ent														Ame	nities]				Inf	rastri	uctur	e		
		Block Length (North side - A) ¹	Block Length (East side - A) $^{\sharp}$	Block Length (South side - B)	Block Length (West side - B)	Furnishings	Benches ⁴	Quantity	Bike Racks ⁴	-	Virking Fountains*	Variation Park Trans.	1	Tash Cans ⁴	Quantity	F7E	Quantity	DI Bolards (Spacing across ROW) ¹⁰	Quantity	Media Enclosures ⁶ / Dumpster Enclosures	Features	Casema Barmers A24		Water Spigots	Bike Lockers	Valer Features		Infrastructure	Overhead Utility Line Relocation	Irrigation (ft)	Electrical for Street Lighting	Power for Landscape/Festivity Lighting		Electrical grid connection for PVs WFr	Water Uslikes (f)	Sewer Lines (If)
	5th Avenue																																			
	Toole to Broadway		374	-	459		150	5.553	150	5.553 4	50 1.3	851 75	11.11	75	11.11	1 75	11.11		-	-		13.8	3 -	1.666).555				833	833	2.38			833	833
	Broadway to 12th Street		396		396		150	5.28	150	5.28 4	150 1.	.76 75	10.56	5 75	10.56	6 75	10.56		-			13.2	-	1.584).528				792	792	2.263			792	792
	12th Street to 13th Street		380		396		150	5.173	150	5.173 4	50 1.	724 75	10.35	5 75	10.35	5 75	10.35		-			12.9	3 -	1.552).517				776	776	2.217			776	776
	Church Avenue																																			
	6th Street to Franklin Avenue		440		440		175	5.029	150	5.867 3	150 2.	514 75	11.73	75	11.73	3 75	11.73		-	-		14.6	7 -	1.76		0.503				880	880		-		880	880
	Franklin Avenue to Alameda		751		744		175	8.543	150	9.967 3	150 4.3	271 75	19.93	75	19.93	3 75	19.93		-	-		23.4	9 -	2.99		0.854				1495	1495	4.271 2	2.136		1495	5 1495
	Alameda to Pennington		425		383		175	4.617	150	5.387 3	150 2.3	309 75	10.77	75	10.77	7 75	10.77	10	5.9	-		13.4	1.	1.616		0.462				383	808	2.309 1	1.154		808	808
	Pennington to Congress		261		252		175	2.931	150	3.42 3	150 1.4	466 75	6.84	75	6.84	75	6.84		-	-		8.55	-	1.026		0.293				513	513	1.466	-		513	513
	Congress to Broadway		243		208		175	2.577	150	3.007 3	150 1.2	289 75	6.013	75	6.013	3 75	6.013	-	-	-		7.51	7 -	0.902		0.258				243	451		-		451	451
	Broadway to Ochoa (La Placita)		410		440		175	4.857	150	5.667 3	150 2.4	429 75	11.33	75	11.33	3 75	11.33		-	-		14.1	7 -	1.7		0.486				850	850	2.429 1	.214		850	850
-	Ochoa to Cushing Street (Convention)		760		810		200	7.85	150	10.47 3	150 4.4	486 75	20.93	75	20.93	3 75	20.93	10	5	-		26.1	1.	3.14		0.785				760	1570	4.486 2	2.243		1570	1570
Collector Local	Granada Avenue																																			
ctor	6th Street to Franklin		692		692		175	7.909	150	9.227 4	50 3.	076 65	21.29	65	21.29	65	21.29		-	-		23.0	7 -	2.768		0.791				1384	1384	3.954	1		1384	1384
olle	Franklin to Alameda		896		896		175	10.24	150	11.95 4	50 3.	982 65	27.57	65	27.57	65	27.57		-	-		29.8	7 -	3.584		1.024				1792	1792	5.12	-		1792	2 1792
	Alameda to Congress		320		312		175	3.611	150	1.213 4	50 1.	404 65	9.723	65	9.723	65	9.723		-	-		9.93	1 -	1.264		0.361				632	632	1.806 0).903		632	632
	Alameda Street																																			
	Toole to Stone Avenue	711		815			150	10.17	150	10.17 4	50 3.3	391 65	23.48	65	23.48	8 65	23.48	-	-	-		23.9	3 -	3.052		1.017			•	1526	1526	4.36	-		1526	6 1526
	Stone to Granada	1052		976			150	13.52	150	13.52 4	50 4.	507 65	31.2	65	31.2	65	31.2		-	-		31.8	1.	4.056		1.352				1052	2028	5.794	•		2028	3 2028
	Pennington Street														_																					
	6th Avenue to Stone Avenue	784		755			150	10.26	150	10.26 4	50 3.	.42 65	23.68	65	23.68	8 65	23.68	•	-	-		24.1	3 -	3.078		1.026				1539	1539		-		1539	9 1539
	Stone Ave. to Church Ave.	295		292			150	3.913	150	3.913 4	50 1.3	304 65	9.031	65	9.031	1 65	9.031	•	-	-		9.22	ŧ -	1.174		0.391				292	587		-		587	587
	Church Avenue to Congress Street (E/W)	660		640			-	-	-		-			-	•	-	•	10	4.5	-		20.4	3 -			-				-	1300	-	-		-	-
	Church Avenue to Congress Street (N/S)		140		160		175	1.714	150	2 4	50 0.	667 65	4.615	65	4.615	5 65	4.615	10	4.5	-		4.71	4 -	0.6		0.171					300		-		300	300
	Cushing Street											_			_	_				_	_	_	_	_									_			
	Stone Avenue to Church Avenue	550		550			200	5.5			_	444 75	+	-	14.67		14.67	•	-	•		17.2	+	2.2		0.55					1100	3.143	-		1100	-
	Church Avenue to Granada Avenue	1850		1850			200	18.5	150	24.67 4	50 8.3	222 75	49.33	75	49.33	3 75	49.33		-	•		58.1	4 -	7.4		1.85				3700	3700	10.57	1		3700	3700
	SUB TOTALS	5902	6488	5878	6588			137.8		157	56	6.52	334.:	2	334.2	2	334.2		19.9			400.	7	47.11		13.78				20542	24856	56.57	9.65		2355	6 23556



Prepared by: Rob Paulus Architect. Ltd.

5546.7

5/3/2007

Street Type	Street Segment	Street Character
	Book kurgen (Nenthrades - Al Book kurgen (Seant altor - Al Book kurgen (Seant altor - Bi Book kurgen (Nens sides - Bi Book kurgen (Nens sides - Bi	Plantic interessi as propertion Relation Relation Relation Relation Standy Relation Standy Relation
	Arizona Avenue (alley) Toole to 12th Street 640 - 639	LTA 5 128 LTA 5 128 LBA 0.25 320 - 0 0 LTC 0.33 422 H3A 1.4976 H3B 8.22 H3G 8.32 25.8. E3E 130 10.66 - 100 12.8 1.066 -
	Ath Avenue Broadway Boulevard to 12th Street - 396 - 396	L6A 20 19.8 L6A 20 19.8 L2B 3 17188 L1C 0.5 396 L1D 0.5 396 L1C 0.33 207 H2A 8553.6 H2B 475 H2C 475 30.6 150 5.28 - 100 7.92 1.32 -
	12th Street	LEB 30 31.6 PR L2A 350 5.42 L1C 0.5 948 L1D 0.5 948 L1C 0.33 626 H1C 22752 31.6 150 12.64 - 100 19 3.16 -
	Scott Avenue to 4th Avenue 948 - 948 - Scott Avenue	
	Pennington to Congress - 350 - 363 Congress to Broadway - 197 - 229	1 - - LD 20 7.5 LD 20 8.2 2 - - - 0 0 - 0 0 - 0 0 - 0
	Broadway to 12th Street - 396 - 259 12th Street to 13th Street - 385 - 513	1 - - LD 2 LB 2 1 2 1 2 3 1
	13th Street to 14th Street - 396 - 393 Herbert Avenue (alley)	- - - X - X - L2A 350 2.25 L1C 0.5 385 L1C 0.33 260 X - X - 150 5.26 - 100 7.89 1.315
	Congress Street to Broadway Boulevard - 267 - 267 Broadway Boulevard to 12th Street - 396 - 396	I I
Alley	Cormick Street Church Avenue to Stone Avenue 400 - 398 - StoneAvenue to Stott Avenue 200 - 210 -	1 3 5
Local / Alley	Scott Avenue - 5th Avenue 226 212 - 6th Avenue - 5th Avenue 391 355 - 5th Avenue - 4th Avenue 350 336 -	I I
	Corral Street Scott Avenue to Stone Avenue 240 - 236 -	- · · · L6B 20 12 L6C 20 11.8 · · · · · · · · · · · · · · · · · · ·
	Ochoa Street Church Avenue to Scott Avenue 318 - 312 -	· · · · LéB 20 159 LéC 20 15.6 · · · · · · · · · · · · · · · · · · ·
	Jackson Street Church Avenue to Scott Avenue 749 730 -	LEB 20 37.5 LEC 20 38.5 H1C 11832 73.36 150 9.86 - 100 14.8
	Council Street Court Avenue to Church Avenue 236 - 236 -	· · L6B 20 11.8 L6C 20 11.8 L2A 350 1.35 ·
	Church Avenue to Stone Avenue 367 - 368 -	Image: Note of the state of the st
	Court Avenue to Church Avenue 306 - 244 - Church Avenue to Stone Avenue 396 - 450 -	Image: style
	Court Avenue to Stone Avenue 396 - 450 - Court Avenue Franklin Street to Council Street - 349 - 341	L6D 20 17.5 L6D 20 17.1 L2A 350 1.97 H1C 5520 34.5 175 3.943 - 100 6.9
	Ash Avenue (alley)	
	Council Street to Frankin Street - 396 - 396 SUB TOTALS 5147 4168 5103 4192	2 2 L6A 19.8 L6A 19.8 L2A 22.73 L8A 849.3 L1D 3519 L1C 3516 H1C 165038 H2B 871.2 H2C 871.2 1219 E3D 101.14 186.1 14.56 L6B 241.6 L6C 207.8 L2B 1188 L1C 3519 H2A 1568.15 H3B 2188 H3C 2188 E3E 25.675
Prepared b	y: Rob Paulus Architect, Ltd.	L60 102.7 L60 105.1 H3A 39380.4 L7A 260.6 L7A 260.4 H5A 16030 707ALS L6A 39.6 L7A 527 L1C 7034 L60 209

Street Type	Street Segment	Amenities	Infrastructure
13/16	Best Lungh Neem ade - A/ Best Lungh Neem ade - A/ Best Lungh (Som ade - B/ Best Lungh (Som ade - B/ Best Lungh (New ade - B/	All Bacher (Spanng) ⁴ Jourthy Jourthy Jourthy	Infrastructure Infrastructure Dommad Uithy Um Blocation Haypanin Blochatin Sheet Lything Plower bit Synapu Lything Plower bit Synapu Lything Meter Utilise (1) Meter Utilise (1) Meter Utilise (1)
	Trizena Avenue falley! -	2 Fac Fac	
	12th Street Scott Avenue to 4th Avenue 948 - 948 - Scott Avenue 948 - 948 - 948 - Pennington to Congress - 350 - 363	1 .	1896 1896 5.417 . . . 713 713 . . 713 713 713
	Congress to Broadway 197 229 Broadway to 12th Street 396 259 12th Street to 13th Street 385 513 13th Street to 14th Street 396 393	150 2.84 150 2.84 500 8.52 50 8.52 50 8.52 5.	428 428 1217 - 428 426 655 655 1.871 - 655 655 898 898 2.586 - 898 898 - 789 2.254 - 789 789
	Berbiert Avenue (alley) Congress Street to Broadway Boulevare 267 267 Broadway Boulevare 12h Street 396 396 HicCommick Street 12h Street 396 396	1 - - - - - - 10 2.6 1 -	534 534 1.526 -
tocal / Alley	Church Avenue to Stone Avenue 400 - 396 - Stone-Avenue to Scott Avenue 220 - 210 - I311h Street - - - - -		796 796 -
Loca	Scott Avenue - 6th Avenue 226 - 212 - 6th Avenue - 5th Avenue 301 - 385 - 5th Avenue - 5th Avenue 350 - 396 - Corral Street 350 - 396 -	1 1 <td>438 438 - - - - 756 756 - - - - 746 746 - - - -</td>	438 438 - - - - 756 756 - - - - 746 746 - - - -
	Scott Avenue to Stone Avenue 240 - 238 - Dchard Street Church Avenue to Scott Avenue 318 - 312 - Inclusion Street		476 476 .
	Church Avenue to Scott Avenue 749 - 730 - Court Avenue to Church Avenue 236 - 238 -		• 1479 1479 • 472 472 • 735 735 2.1 . . .
	Church Avenue to Stone Avenue 387 - 388 - Franktin Street Court Avenue to Church Avenue 386 - 244 - Church Avenue to Stone Avenue 386 - 450 -		550 550 .
	Franklin Street to Council Street - 340 - 341 Ash Avonue failey1 - - 396 - 396	x x	690 690 -
	SUB TOTALS 5147 4168 5103 4192	23.21 23.21 9.52 54.01 54.01 8 6 5.802	17821 18610 29.81 4760 4760

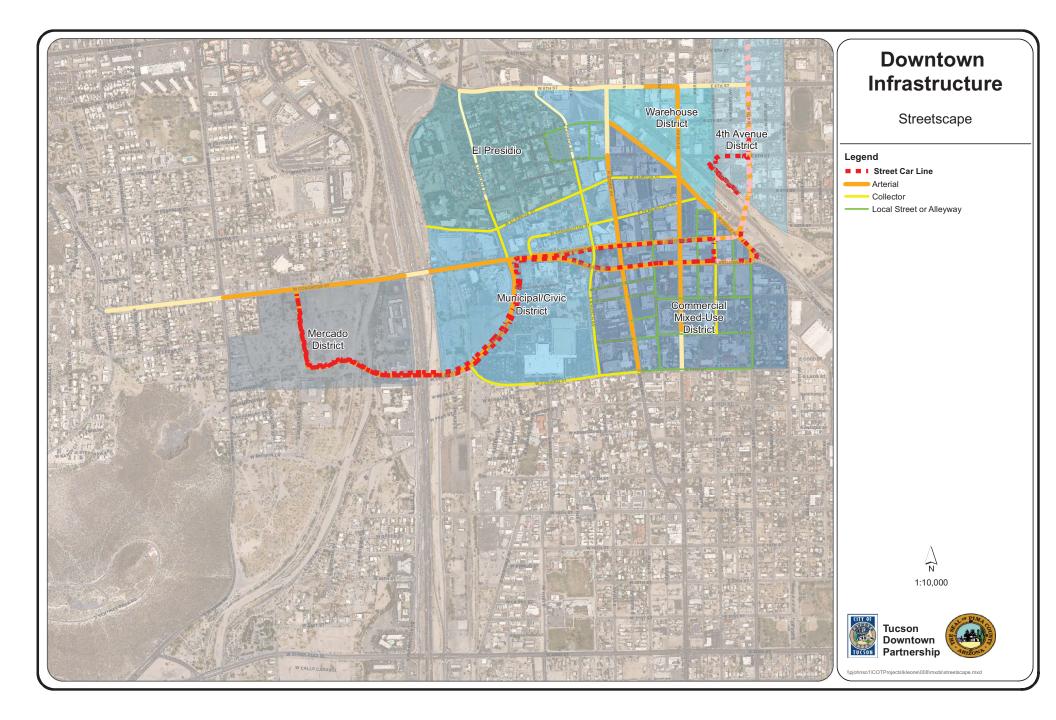
Prepared by: Rob Paulus Architect, Ltd.

General Notes

- P/R Parks + Recreation refer to Parks + Rec plans
 - X Existing to remain
 - Not Applicable
- red indicates information to be verified / confirmed
- blue indicates quantities NOT included in component totals or sub-totals; components for these segments are calculated in a separate budget number (included as line item in streetscape budget report) or excluded from streetscape budget
- green indicates quantity that has been reduced by an amount as indicated in Notes column at far right end of respective matrix row
 - * Refer to plans for Hotel Arizona / Arena project
 - ** Refer to plans for the Mercado district
 - *** Refer to plans for the Origins project

Footnotes

- 1 Street segment lengths (shown in feet) based on plans provided by Tucson Department of Transportation archives (March 2007) Lengths shown are for sidewalk street frontage; intersections are excluded and should be quantified separately
- 2 Right-of-way widths (shown in feet) based on plans provided by Tucson Department of Transportation archives (March 2007)
- 3 El Presidio neighborhood includes no intersection modifications
- 4 Apply one unit per length of linear feet indicated; unit frequency is per single side of street
- 5 Catenary poles for streetcar may double as street light poles; apply spacing from street light column on street
- 6 All street lights are to be staggered on both sides of the street unless ROW is 50' or greater.
- 7 Signage (including transportation signage, downtown signage, destination signage, etc.) to be allocated by TDOT Signage budget - not yet incorporated
- 8 not used
- 9 Intersection types established for a general budget depending on elaboration of paving material, plantings and interest
- 10 Apply one unit per length of linear feet indicated across right-of-way street width
- 11 If spacing of trees is less than 20', it indicates a double-row of trees to occur along sidewalk
- 12 Landscape Lights = 1/200sf of Raised Planter area on arterial + collector; 1/300sf of raised planter on local



Component List + Budget

MasterFormat	MasterFormat Category	litem	Keynote Lette	er Location	Description	Material La	abor/Equip	Cost Unit	Streetcar	Sub-Total	Arterial Sub-	Total Co	lector Sub-Total	Local	Sub-Total	Total	Category
Right of Way																	\$402,950
	Intersection Type	Intersection paving + design		streetcar / arterial	Intensive: pavers continuing across street + patterns, landscape curb-outs	\$4.000	\$3.400	\$7.400 lea	17	\$125.800	4	\$29.600				\$155,400	+,
	interocoulon Type	Intersection paving + design	B	collector	Medium: pavers continuing across street, landscape curb-outs	\$3.000	\$2,850	\$5.850 ea		\$120,000		\$87,750				\$87,750	
		Intersection paving + design	C C	local	Standard: painted crosswalk indicators	\$2,000	\$2,000	\$2,800 ea				\$16.800	9 \$25.200	11	\$30,800	\$72.800	
		Intersection paving + design	D	local / allev	T-type intersection: paver design at termination crossing	\$2,000	\$2,850	\$4.350 ea			0	\$10,000	7 \$30,450	13	\$56,550	\$87.000	
		Intersection paving + design		local / alley	1-type intersection: paver design at termination crossing	\$1,300	<i>\$2,000</i>	34,330 Bd					7 330,430	13	400,000	307,000	
Parking																	\$502,75
11 12 26	Parking Collection	Parking Meter	P1 A	streetcar / arterial	Solar powered, multiple space meter (includes power source)	\$8.000	\$250	\$8.250 lea	34	\$280,500	18 \$	148.500				\$429.000	
			В	collector / local	Pay-by-space meter (includes power source)	\$1,000	\$250	\$1,250 ea					34 \$42,500	25	\$31,250	\$73,750	
	Parking Striping	Paint Striping		parallel parking													
				angled parking													
												_			_		
Transit																	\$237,50
10 73 43	Transportation Stop Shelters	Streetcar Stop	T1 A	streetcar routes	Solar powered, LED-lit shelter	\$10,000	\$1,100	\$11,100 ea	10	\$111,000						\$111,000	
			В	streetcar routes (alt)	Euromodel "Urban Shelter"	\$8,500	\$850	\$9,350 ea	2	\$18,700						\$18,700	
						44.87				000 10-1	101	A00 500					L
10 73 43	Transportation Stop Shelters	Bus Transit Stop	T2 A	streetcar / arterial	custom bus shelter w/ PVs integrated	\$2,500	\$850	\$3,350 ea	9	\$30,150	10	\$33,500				\$63,650	
			B	collector / local	custom bus shelter	\$2,000	\$850	\$2,850 ea		A. 10			9 \$25,650			\$25,650	L
	1		C	TICET route	custom bus shelter	\$1,000	\$850	\$1,850 ea	4	\$7,400	6	\$11,100				\$18,500	L
Public Interest						-									_		
runic merest				1700		_										- halass	\$1,094,20
L	Public Art	Art Installations		TBD	public art = 1% of streetscape budget	1									SE	e below	—
10	0	lotered News Olympics														8700.000	
10	Signage	Street Name Signage		intersections	street name signs (lump sum allocation)											\$500,000	
10	Signage	Signage	1 1	RND	Signage Kiosks for downtown (per ParkWise allocation)	1		\$20.000 lea								\$520.000	
	loiginge	Joighago		puib	pignage masks of downown (per rankmac anotation)			420,000 00								4020,000	
10	Signage	Historic Content	S1 A	streetcar / arterial route	Historic signage indicator (plaque, lighting, engraved paver)	\$1.000	\$350	\$1,350 lea	4	\$5 400	7	\$9,450				\$14,850	
			B	collector / local	Historic signage indicator (plaque, lighting, engraved paver)	\$800	\$350	\$1,150 ea		42,122		44,122	8 \$9,200	2	\$2,300	\$11,500	
10 13 00	Directories	Directional Info Kiosk	S2 A	streetcar / arterial route	Euromodel free standing box; "Stealth" interactive kiosk	\$1,500	\$600	\$2,100 ea	6	\$12,600	2	\$4,200				\$16,800	
10 18 00	Informational Kiosks		B	collector / local	Euromodel with seating, trash receptacle	\$1,000	\$600	\$1,600 ea					2 \$3,200			\$3,200	
10	Signage	Gateway Markers	S3 A	streetcar / arterial route	Elaborate gateway marquees (custom design, w/lighting, etc)	\$3,000	\$350	\$3,350 ea	1	\$3,350	4	\$13,400				\$16,750	
			В	collector / local	Moderate gateway signage marquees	\$1,500	\$350	\$1,850 ea					6 \$11,100			\$11,100	
Landscaping						-									_		\$5,676,44
12 93 33	Disetses	Dala ed Diastera	1 1414			600	85.00	£07.00.L-(01050	8040.050	4005	405 445			_	\$774.495	\$3,070,44
12 93 33	Planters	Raised Planters	L1 A	streetcar route	Galvanized steel planters (with landscape + ped. lighting)	\$22	\$5.00	\$27.00 sf	24050	\$649,350		125,145 598.425				\$774,495 \$598,425	
			C	arterial routes	Stainless steel planters (with landscape + ped. lighting)	\$20	\$5.00	\$25.00 sf			23937 3	098,420		800.0			
				collector	Masonry planters (with landscape)	\$15	\$3.50 \$3.00	\$18.50 sf \$13.00 sf			16218 \$	210.834	15306 \$283,161 8670 \$112,710	7034	\$130,129 \$45,747	\$413,290 \$369,291	
		1	u lu	local	Cast concrete planters - with resevoir system for water conservation	\$10	\$3.00	\$13.00 SI			10210 3	10,004	00/0 a112,/10	3318	Q40,141	\$303,231	
32 90 00	Planting	Planter Extension	L2 A	between street pkg	curb-out with plants, groundcover, total area of one parking space (~150sf)	\$1,500	\$250	\$1,750 ea	30	\$52,500	15	\$26,250	31 \$54,250	23	\$40,250	\$173,250	H
52 50 00	, ionicity	Median Planters	L2 A	at middle of street	median with plants, groundcover, total area of one parking space (~150st) median with plants, groundcover, pedestrian lights	\$1,300	\$250	\$1,750 Ba \$30 sf	50	932,300		\$92,250	5568 \$167.040	1188	\$40,230	\$294,930	
					1	+=0	20	*** [**					0.01,010			111.110	·
32 96 13	Groundcover	Groundcover plants	L4 A	streetcar / arterial	mix of Verbana, bear grass, etc.	\$17	\$1.50	\$18.50 sf	12025	\$222,463					Г	\$222,463	
			В	collector / local	mix of Salvia, agave, etc.	\$15	\$1.50	\$16.50 sf								\$0	
									· · ·								
32 96 43	Trees	Trees	L6 A	east/west side of street	Hybrid Palo Verde (Desert Museum)	\$800	\$125	\$925 ea	112.6	\$104,155	582 \$	538,350	368 \$340,400	40	\$37,000	\$1,019,905	
			B	north side of street	Velvet Mesquite	\$800	\$125	\$925 ea	171.4	\$158,545		\$47,175	165 \$152,625	242	\$223,850	\$582,195	
			C	south side of street	TBD (Varies)	\$800	\$125	\$925 ea	125.7	\$116,273	57	\$52,725	142 \$131,350	208	\$192,400	\$492,748	
			D	east/west side of street	Sweet Acacia	\$800	\$125	\$925 ea					190 \$175,750	209	\$193,325	\$369,075	
			E	Toole Ave	Phoenix Hybrid Mesquite	\$800	\$125	\$925 ea			174 \$	160,950				\$160,950	
			F	Mercado	Palo Brea	\$800	\$125	\$925 ea	107	\$98,975	103	\$95,275				\$194,250	
	Trellis	Landscape - Trellis + Vines	L7 A	alleys	custom trellis (steel + cable) with landscape vines	\$10	\$2.50	\$12.50 sf						521	\$6,513	\$6,513	
1									1								1
	Boulders	Decorative boulders	L8 A	Alley edges, ends		\$3	\$2.50	\$5.50 sf						849	\$4,670	\$4,670	

Component List + Budget

MasterFormat	MasterFormat Category	Item	Keynote Let	er Location	Description	Material La	abor/Equip	Cost Unit	Streetcar	Sub-Total	Arterial	Sub-Total C	ollector Sub-Total	Local Su	b-Total To	otal	Category
Hardscape																	\$6,471,314
03 05 00	Concrete	Hardscape - Concrete	H1 A	1	Textured concrete paving	\$3.50	\$1.60	\$5.10 sf			162240	\$827,424	133501 \$680.855		\$1	.508.279	\$0,471,514
			В		Colored concrete paving	\$2.50	\$1.25	\$3.75 sf			9013	\$33,799	9632 \$36,120			\$69,919	
			C		Standard concrete paving	\$1.50	\$1.25	\$2.75 sf			9013	\$24,786	9632 \$26,488	105038	\$288,855	\$340,128	
32 14 13	Precast Concrete Unit Paving	Hardscape - Concrete Pavers	H2 A		12"x12" and 16"x16" concrete pavers	\$5.00	\$4.50	\$9.50 sf	28764	\$273,258	31365	\$297,968		15682	\$148,979	\$720,205	⊢
32 13 16	Decorative Concrete Paving	Hardscape - Concrete Pavers	H2 B		Wausau Tile recycled glass content concrete pavers	\$6.00	\$4.50	\$10.50 sf	1598	\$16,779	1743	\$18.302		871		\$44,226	
32 13 13	Concrete Paving	Hardscape - Concrete Pavers	H2 C		Wausau Tile "Cool Pavers"	\$5.00	\$4.50	\$9.50 sf	1598	\$15,181	1743	\$16,559		871	\$8,275	\$40,014	
32 14 16		lu i bii	H3A		1		A	\$8.50 sf	100007				B1300 0010 001				
32 14 16	Brick Paving	Hardscape - Brick	H3 A		standard pattern; tumbled + flashed decorative pattern	\$4.00	\$4.50 \$5.00	\$8.50 st \$10.00 sf	120007	\$1,020,060 \$66,670			71798 \$610,283 3989 \$39,890	39380 2188		1,965,073 \$128,440	l
			č		decorative pattern	\$5.00	\$5.00	\$10.00 sf	6667	\$66,670			3989 \$39,890	2188	\$21,880	\$128,440	
004440	lot	Ulanda con co Chana				20.50	A4 501	640.001-/								20	
32 14 40	Stone Paving	Hardscape - Stone	H4 A	adjacent to plazas / parks	stone pavers	\$8.50	\$4.50	\$13.00 sf								\$U	— —
32 14 43	Porous Paving	Hardscape - Porous	H5 A	pedestrian alleys	GraniteCrete paving for pedestrian / light vehicular traffic	\$4.00	\$4.50	\$8.50 sf						18030	\$153,255	\$153,255	
					·												
32 94 43	Tree Grates	Hardscape - Tree Grate	H6 A	streetcar / arterial routes	48" square; McKinley 36" square radial (Ironsmith)	\$450 \$271	\$150 \$150	\$600 ea \$421 ea	558	\$334,800	967	\$580,200	886 \$373.006			\$915,000 \$373.006	L
			C	local	groundcover / barkdust (36" square)	\$50	\$20	\$70 ea					000 0013,000	1219		\$85,330	
	·			•				1.11									
Lighting																	\$10,876,920
26 56 13	Pole Lighting	Street Lights	E3 A	streetcar route (30' high)	Bega (w/LED)	\$7,100	\$2,440	\$9,540 ea	93	\$887,220						\$887,220	
			B	arterial route (30' high) collector route (30' high)	Beacon (w/LED) Gardco (w/LED)	\$6,500 \$6,000	\$2,000 \$1,800	\$8,500 ea \$7,800 ea	\vdash		158	\$1,343,000	152 \$1,185,600	<u> </u>		1,343,000	L
				collector route (30' high) local (30' high)	Gardco (w/LED) 7BD (w/LED)	\$5,000	\$1,800 \$1,640	\$6.640 ea	\vdash				102 \$1,185,600	101		\$670.640	L
			E	alley (20' high)	TBD (w/LED)	\$4,500	\$800	\$5,300 ea								\$137,800	
			= +1 -			An ar				4544.411							
	Catenary Poles	Streetcar Catenary Poles	E4 A	streetcar route streetcar route	Option A Option B	\$3,000	\$800 \$800	\$3,800 ea \$3,300 ea	149	\$566,200						\$566,200	L
				Sileeical louie	Opauli B	92,300	2000	45,500 08								— I I	
26 56	Pedestrian Lighting	Pedestrian street lights	E6 A	streetcar / arterial	ornamental (w/LED)	\$7,500	\$100	\$7,600 ea	139	\$1,056,400	251	\$1,907,600			\$2	2,964,000	
			В	collector / local	ornamental (w/LED)	\$7,000	\$100	\$7,100 ea					249 \$1,767,900	26	\$184,600 \$1	1,952,500	<u> </u>
26 56 26	Landscape Lighting	Landscape Lights	E7 A	at raised planters	Heritage in-ground solar well light	\$160	\$100	\$260 ea	60	\$15.600	98	\$25,480	43 \$11,180	15	\$3,900	\$56,160	<u> </u>
										,							
	Festival Tree Lighting	Festival Lights	E8 A	arterial routes	Outlet box within planter and tree light fixtures for each tree	\$75	\$25	\$100 ea	558	\$55,800	1205	\$120,500				\$176,300	
	Traffic Signals	Traffic Signals		intersections	four-way street lights + sidewalk crossing signals			\$50,000 ea	8.5	\$425,000	6.25	\$312,500	4 \$200,000		1 3	\$937,500	<u> </u>
														_			
Furnishings			1														\$4,946,000
03 48 13 12 93 00	Bollards Site Furnishings (Bollards)	Furniture - Bollards Furniture - Bollards	F1 A	median crossings plazas	Custom Steel Bollard with custom light feature Bega stainless lighted bollard	\$500	\$150 \$125	\$650 ea \$525 ea								\$0	⊢
12 93 00	Site Furnishings (Bollarus)	Putriture - Bollards	C	alleys; special event streets	Automatic Bollard (retractable bollard)	\$400 \$300	\$125	\$400 ea	20	\$8,000	18	\$7,200	20 \$8,000	8	\$3,200	\$26,400	
12 46 13	Ash Receptacles	Furniture - Ash	F5 A	streetcar route	Landscape Forms "petosky"	\$1,200	\$100	\$1,300 ea	284	\$369,200	000	6000.000				\$369,200	L
			- B	arterial route collector route	Creative Pipe "fustiva" Creative Pipe "fustiva"	\$900	\$100 \$100	\$1,000 ea \$1,000 ea			369	\$369,000	334 \$334.000	54	\$54.000	\$369,000 \$388.000	<u> </u>
	1		1 1-					**,***[**									
12 93 23	Bike Racks + Lockers	Furniture - Bike Locker	F6 A	streetcar route	Creative Pipe perforated steel locker	\$1,000	\$100	\$1,100 ea								\$0	
-		Furniture - Bike Rack	B	arterial route streetcar route	ProPark bike locker Custom steel bike rank	\$800 \$250	\$100 \$100	\$900 ea \$350 ea	149	\$52,150						\$0	L
		Fulfillule - Dike Rack		arterial route	Landscape Forms "bola"	\$200	\$100	\$300 ea	143	aux,100	109	\$32,700				\$32,700	
			E	collector / local	CIS "D"	\$150	\$100	\$250 ea					157 \$39,250	23	\$5,750	\$45,000	
10.00.00	Tarah Dias	French and Transk Die					84001	64 000 L	04.1	2010.000						60.40.000	H
12 93 23	Trash Bins	Furniture - Trash Bin	F7 A	streetcar / arterial routes collector streets	Landscape Forms "petosky" Landscape Forms "pitch"	\$1,100	\$100	\$1,200 ea \$1,400 ea	284	\$340,800	377	\$527,800		<u>├</u>		\$340,800	<u> </u>
			Č	local streets	Landscape Forms pitch Landscape Forms "petosky"	\$1,100	\$100	\$1,200 ea			3/1	9327,000	334 \$400,800	54		\$465,600	
						44/-1											
12 93 23	Recycling Bins	Furniture - Recycling Bin	F7 D	arterial + collector	Creative Pipe "fustiva" CIS recycle bin	\$900	\$100 \$100	\$1,000 ea \$900 ea	284	\$284,000	364	\$364,000	334 \$300.600	54	\$48.600	\$648,000 \$349,200	
	1	1	1 16	hoogi gilagig	loio ioojoo am	4000	9100	4900 log						1 24	410,000	40-10,200	<u> </u>
12 93 43	Seating	Furniture - Seating	F8 A	streetcar route	Landscape Forms "stay"	\$1,800	\$100	\$1,900 ea	110	\$209,000						\$209,000	
			B	arterial route	Landscape Forms "pelosky"	\$1,400	\$100	\$1,500 ea			129	\$193,500				\$193,500	
			C	collector street local street	Euromodel bench with advertising or planter Wausau Tile cast concrete bench	\$1,000 \$550	\$100 \$100	\$1,100 ea \$650 ea	H				138 \$151,800	23	\$25,300 \$	\$177,100	L
	1	-	E	IGGdl Street	Wausau Life cast concrete bench Custom bench (steel frame + composite decking)	\$2,000	\$100	\$650 ea \$2,100 ea	55	\$115,500						\$115,500	(
						+-,		. ,		,							
22 47 13	Drinking Fountains	Furniture - Drinking Fountains	F9 A	streetcar / arterial	Belson stainless steel fountain	\$2,400	\$350	\$2,750 ea	55	\$151,250	65	\$178,750				\$330,000 \$130.650	
			B	coleictor / local	Peterson cast concrete fountain	\$1,600	\$350	\$1,950 ea					57 \$111,150	10	\$19,500 \$	\$130,650	L
	Media Enclosures	Media Enclosures				\$1,600		\$4.200 ea	13	\$54,600	23	\$96.600	57 \$111,150	10		\$130,650	
			В	coleictor / local	Peterson cast concrete fountain	\$1,600	\$350 \$1,200 \$1,200		13	\$54,600	23	\$96,600	57 \$111,150	6			

Component List + Budget

	asterFormat	t MasterFormat Category	Item	Keynote Lett	er Location	Description	Material La	bor/Equip	Cost Unit	Streetcar Sub-Total	Arterial Sub-	Total Collector Su	ub-Total L	ocal Sub-Total	Total	Cat
	atures + An	nenities														\$4
	0 71 00		Amenity - Shade Structures	A1 A	at seating areas, benches	custom shade structures (incorporate PVs where feasible)		\$2,000	\$7,000 ea	11 \$77,00	13 5	91,000 14	\$98,000	6 \$42,000	\$308,000	
				B	plazas	Euromodel shades	\$12,000	\$4,800	\$16,800 ea						\$0	1
				C	special event streets	Eide tensile shade structures (occasional use for special events)	\$2,500	\$1,000	\$3,500 ea						\$140,000	4 🛏
	73 13	Awnings	Amenity - Awnings	A1 C	streetcer / erteriel	Majartin charles	\$15.00	\$6	\$21.00 sf	27550 16667 \$578 55	28044.625	88 937			\$1 167 491	d ⊢
	1010		/ monity / whiligo	D					\$17.50 sf	21000.10007 4010,00	20011.020		\$403,393	32286 \$565,005		
																$1\square$
	83 16	Banners	Amenity - Banners	A2 A	arterial + collector streets	Includes banner + brackets on street-light poles	\$500	\$200	\$700 ea	381 \$266,70	323 \$2	26,100 401	\$280,700		\$773,500	4 🛏
		Sound System	Public Address Speakers	A3 A	streetcer / arterial	nuhër addrese sustam (huvtenaskare muintad on linht nolas)	\$150	\$25	\$175 00	208 \$36.40	56	\$9.800			\$46 200	5 –
		looding of stern	T ubile / darees opeakers		uncertain and and and and and and and and and an	pable address system (oscospeniers mounted or right pares)	\$100	020	\$110 Job	200 000,40	00	40,000				
		Water Spigots	Water Spigots	A4 A	arterial + collector	power wash, lockable, water spigots for sidewalk cleaning	\$150	\$25	\$175 ea	50 \$8,75	66	11,550 47	\$8,225		\$28,525	
	12 13	Fountaino	Amonity Water Features	4514	1	Outloor functions and a factors	£10.000	\$4,000	\$14.000 00						\$94,000	
	12 13	Fountains	Amenity - Water Peatures	AJA	piazas	Custom fountains, water features	\$10,000	\$4,000	\$14,000 [8d						304,000	-11-
	42 00	Public Restroom Facilities	Amenity - Restroom	A6 A	plazas	Exeloo East "Galaxy"	\$180.000	\$72.000	\$252.000 lea						\$504.000	i 🛏
				В			\$175,000		\$245,000 ea						\$490,000	i 🗆
						-										니ᄃ
		Storage Facilities	Maintenance Storage			parking bays for storage + maint vehicles + equipment			\$0 ea						\$0	4 —
						Streeteene Budget (hefere cub grade improvemente)			SubTotals	165.301 \$9.348.701	224,357 \$10.506	732 230.510 \$8.6	571.716	193.716 \$3.953.047	\$34,718,195	813
						Streetscape Budget Lietore sub-grade improvements		be		sf \$56.56					\$42.66	5 sf
	írastructur															\$
		Irrigation	Landscape - Irrigation		at planted areas + trees	irrigation system (does not include reclaimed rainwater)			\$110 f	14921 \$1,641,31	19878 \$2,	86,580 20452 \$	\$2,249,720	17821 \$1,960,310	\$8,037,920	4 🗖
		Water	Water Line		for d f + minute		-		\$55.1/	14021 \$820.65	10979 \$1.0	03 200 23556	21 205 590	4760 \$261 800	\$3.471.325	<u>-</u> -
Image: marking		water	water Line		for u.i. + spigots								1,293,300	4/00 \$201,000	\$3,471,323	-
									\$65 If	2000 \$130,00	1500	97,500				
			•			•										10
Image:		Sewer	Sewer Line										\$1,531,140	4760 \$309,400	\$4,102,475	4
									\$65 //		1500					4┣-
i i					por public real como					2000 \$110,000	1000	21,000				11
Image: Note: Instant Image: No		Electrical	Electrical Line							14921 \$2,312,75						
Power Opwer source Status St											19108 \$2,	01,880 24856 \$	\$2,734,160			
Image: Normality of the second seco					local streets	pedestrian lighting only			\$/5 1					18010 \$1,395,750	\$1,395,750	4
Image: Normality of the second seco		Power	Power source			power for landscape + festival lights			\$650 lea	431 \$27.95	55	35,750 56	\$36,400	30 \$19,500	\$119.600	1 -
Image: line of the second se														0 \$0		
Sub Totals Sub Totals Status 1858/224 20/24/37 \$1518/82 20/25/37 \$1518/72 20/25/37/						power for gateway marquees			\$500 ea	1 \$50	4	\$2,000 6	\$3,000	0 \$0	\$5,500	
Sub Totals Sub Totals Status 1858/224 20/24/37 \$1518/82 20/25/37 \$1518/72 20/25/37/		Electrical DV	ID) / Crid Connection			a sufficiency of the second seco									\$50,000	
Streetscape sunger (NIII) Mini Structure) Image: Nine of Streets (Street Street S		Electrical PV	FV Glid Collinection			conungency									\$50,000	1
Streetscape sunger (NIII) Mini Structure) Image: Nine of Streets (Street Street S						Otres at a sure Burdwet (with Inferenties at weathers)			SubTotals	165.301 \$15.692.236	224.357 \$17.651	802 230.510 \$16	.526.716	193.716 \$7.899.807	\$59.078.560	813,
Image: Second condition (% per morm) (%						Streetscape buuget twin imrastructures				sf \$94.93	sf \$78.68	sf \$71	.70	sf \$40.78	\$72.59) tota
Image: Second condition (% per morm) (%																
Image: Sub Total Stb Tota									1							4
Contractor Frees 2% (per Sund) \$4,222,811 \$52,329.90 \$5,359,614 \$27,896,228 \$57,789.67 \$57,89.67 \$57,69.67 \$57,789.67 \$57,6								ase: 1-year per typ	pe)							i i
Mar E Fees Ors Ors 4545583 55.001.623 55.702.477 52.703.203 51/1477.436 Mar						Contractor F	ees 23% (per Sundt)			\$4,222,781	\$5,237,2	90 \$5,3	359,614	\$2,779,942	\$17,900,466	3
Sub Total Star Star Star Star Star Star Star Star Star Star Star																4
Public Ar No diaget Stradget													732,457			-
Out of TiF Boundary Out of TiF Boundary S20,000 S3,812,622 S1,812,709 S1,852,14 S9,778,853 Streetscape Budget TOTAL TOTAL 127,346,29 S30,332,13 S32,255,917 S16,542,14 S9778,853 S16,242,144 Intel Project Streetscape S Over Plaza / Arena S10,000 S10,000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$27,099,236</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										\$27,099,236						-
Streetscape Budget TOTAL TOTAL B27,94,020 533,32,20 512,925,971 518,344,90 mail Project Streetscape Pedestrian Bridges Pedestrian Bridges <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Out of TIF Bound</td><td>arv Deduct for street sean</td><td>ents outside of T</td><td>IF houndary</td><td></td><td></td><td></td><td></td><td></td><td></td><td>i i</td></td<>						Out of TIF Bound	arv Deduct for street sean	ents outside of T	IF houndary							i i
Image: Streets capes Pedestrian Bridges Civic Plaza / Arena St.2000,000 [as Image: Streets cape Civic Plaza / Arena St.2000,000 [as St.000,000 [as Image: Streets cape Improvements Improvements Streets cape Streets cape St.000,000 [as Image: Streets cape Improvements Improvements Congress St.: Grande - Sliverbell Streets cape Streets cape St.000,000 [as Image: Streets cape Improvements Improvements Improvements Streets cape St										\$27,340,629	\$30,333	213 \$32	925.917	\$16,364,161	\$106.248.144	1
Pedestrian Bridges Orice Rear / Arma International and the state of the st											120,000	02		1.1,121,101	,,,	4
Pedestrian Bridges Orice Rear / Arma International and the state of the st	litional Pr	oject Streetscapes														1
Including			Pedestrian Bridges													j.
Mercado / Origins Improvements Streetscape Improvements Mercado/Origins Cousting Street/Avenue del Convento additional street Improvements \$10 st [Congress St.: Grande - Silverbeil Streetscape Improvements Iweat Congress St. Grande - Silverbeil street Improvements (plassed in Ature) \$45 st \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000					south of 4th Ave				\$1,000,000 ea						\$1,000,000	4
Mercado / Origins Improvements Streetscape Improvements Mercado/Origins Cousting Street/Avenue del Convento additional street Improvements \$10 st [Congress St.: Grande - Silverbeil Streetscape Improvements Iweat Congress St. Grande - Silverbeil street Improvements (plassed in Ature) \$45 st \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000		Tueson Convention Conter	Convention Center Londocon		ITCC	Indeens + hadeens + lighting + EEE immuments			\$751cf						\$19,500,000	26
Congress St.: Grande - Silverbell Streetscape Improvements west Congress St. Grande - Silverbell street improvements (phased in haure) \$45(s) 24000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000		Trucson Convention Center	Convention Center Landscape	1	100	lanoscape + nardscape + lighting + H+E impovments			\$/5 SI						\$19,500,000	201
Congress St.: Grande - Silverbell Streetscape Improvements west Congress St. Grande - Silverbell street improvements (phased in haure) \$45(s) 24000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000			Streetscape Improvements		Mercado/Origins	Cushing Street/Avenue del Convento additional street improvments		1	\$10 sf	53760 \$537.60					\$537.600	1
		Mercado / Origins Improvments														1
			Streetscape Improvements		west Congress St.	Grande - Silverbell street improvements (phased in future)			\$45 sf		24000 \$1,0	80,000			\$1,080,000)
Researce Reduct fuils Educational Residuate			Streetscape Improvements		west Congress St.	Grande - Silverbell street improvements (phased in future)			\$45 sf		24000 \$1,0	80,000			\$1,080,000	1
			Streetscape Improvements		west Congress St.	Grande - Silverbell street improvements (phased in future)			\$45 sf		24000 \$1,	80,000			\$1,080,000	2
			Streetscape Improvements		west Congress St.	(Grande - Silverbell street improvements (phased in future) Streetscape Budget (with Additional Projects)			\$45 sf		24000 \$1,0	80,000			\$1,080,000 \$130,365,744]

Component List + Budget

ormat	MasterFormat Category	Item	Keynote Letter Location	Description	Material Labor/Equip Cost	Unit	Streetcar Sub-Total	Arterial Sub-Total	Collector Sub-Total	Local Sub-Total	Total
							· · ·				· · · · ·
				Potential Deducts (redundancies)							
				Streetcar Budget Redundancy	per TDOT		(\$951,600)				(\$951,600)
				Parking			(\$1,000,000)	(\$1,000,000)	(\$500,000)	(\$500,000)	(\$3,000,000)
				Parks & Recreation	Toole Avenue			(\$5,000,000)			(\$5,000,000)
				Parks & Recreation						(\$2,000,000)	
				Parks & Recreation	Cushing Street/Armory Park link				(\$2,500,000)		(\$2,500,000)
				Parks & Recreation	(018)					(\$800,000)	(\$800,000)
				Parks & Recreation	El Presidio Walk (50% of \$800,000 at Church + Ala	imeda)			(\$400,000)		(\$400,000)
				Infrastructure	Water + Sewer (well-coordinated installation + upg	rades)	(\$2,350,520)	(\$2,805,360)	(\$2,826,720)	(\$571,200)	(\$8,553,800)
				Streetscape Budget (with deducts)	тот	AL	\$26,389,029	\$30,333,213	\$32,925,917	\$16,364,161	\$107,160,344
				Pilot Project							
				East End (overage on 4th Ave. underpass implementation)							
				5th Avenue (Bdwy. + Toole)	\$7	1.70 sf			9996 \$716,676		\$716,676
				Broadway Ave. (1/2 block)	\$94	1.93 sf	9852 \$935,263				\$935,263
				4th Ave (btwn Bdwy. + Toole)	\$9	1.93 sf	3500 \$332,259				\$332,259
				Congress Ave. (4th-Az. Ave)		1.93 sf	7500 \$711,985				\$711,985
				Toole Ave. (4th-5th Ave.)	\$71	3.68 sf		5325 \$418,957			\$418,957
				East End	TOT						\$3,115,140

Descriptive Items

1 Demolition	Demolition of existing streetscape is included as a contingency number
2 Signage	TDOT/ParkWise complete signage budget is not included; only additional portion for kiosks and additional signage enhancement for streetscape
	Note: It is proposed that signage elements be integrated with or attached to other elements such as light poles, traffic signal poles, transit stop structures, shade structures, etc. This will
	alleviate the need for additional signage poles and related pole foundations, and will alleviate visual clutter along the streetscape.
3 Lighting	It is recommended that the street lighting be phased into an LED system. Utilization of PVs that offset the cost of street lighting is recommended
4 Plants	Include as annual, recurring budget for seasonal plantings and maintenance (spring annuals and perrenials)
5 Parking	It is recommended that all parking meters be replaced with ticket-vendor meters.
	It is recommended that the City go into contract early with a nursery to train young trees to grow vertical for streetscape implimentation. This additional nursery contract cost should be
6 Trees	considered.
7 Barrio del Sol	The future Barrio del Sol neighborhood street improvement area is not included in this study.
8 Building Frontage Planting	It is recommended that a building frontage planting zone be included on all sidewalks wider than 10'-0".
9 Shade Structures	Shade structures to incorporate photovoltaics where possible
10 Awnings	A portion of the streetscape budget should be allocated to business owners for installation of awnings (along streetcar routes + pedestrian alleys)
11 Existing Billboards	Refurbish existing billboards (i.e., 6th Ave + Broadway)

\$78.68 \$71.70 \$40.78 \$2,695,289 \$2,695,289 Sub-Total \$2,695,289 \$45 \$1,080,000 \$1,080,000 \$302,121 \$302,121 \$1,384,720 \$1,384,720 \$98,032 \$98,032 \$747,749 \$747,749 \$3,612,622 Sub-Total \$1,812,769 \$1,812,769 \$798,052 \$798,052 Sub-Total \$1,812,769 \$225,108 \$225,108 \$593,436 \$593,436 \$125,114 \$125,114 \$387,576 \$387,576 \$322,980 \$322,980 \$386,108 \$386,108 \$342,555 \$342,555 \$289,948 \$289,948 n/a n/a Sub-Total \$1,654,214 TOTAL \$9,774,895

Streeto	ar		
	4th Avenue	6th Street - 9th Street	28,392
	•	Sub-Total	28,392

W. Congress Street	Grande - Silverbell street improvements (phased in future)		24
W. Congress Street	Grande - Silverbeit street improvements (phased in luture)		24
Congress Street	Melwood Ave Grande Ave.		3
6th Street	4th Ave 6th Ave.		17
		-	
Stone Avenue	Council Street - Toole Ave.		1
6th Avenue	13th St 14th St.		g
		Sub-Total	56,

Collector	Collector									
	Granada Avenue	Paseo Redondo - 6th Street		25,284 sf						
				-						
	Church Avenue	Council Street - 6th Street		11,131 sf						
			Sub-Total	36,415 sf						

Council Street - Franklin Street		5,520
Court Avenue - Stone Avenue		14,552
Church Avenue - Court Avenue		3,068
Broadway - 12th Street (12th - 14th St. already excluded from budget)		9,504
Broadway - 12th Street		7,920
		0.100
13th Street - 14th Street		9,468
All Assess Tab Assess		8,400
4th Avenue - 5th Avenue		0,400
4th Avenue - 5th Avenue		7,110
Stone Avenue - 4th Avenue (already excluded from budget)		
	Sub-Total	65,542
	Court Avenue - Stone Avenue Church Avenue - Court Avenue Broadway - 12th Street (12th - 14th St. already excluded from budget) Broadway - 12th Street 13th Street - 14th Street 4th Avenue - 5th Avenue	Court Avenue - Stone Avenue

Downtown Tucson Streetscape

BUSINESS IMPROVEMENT DISTRICT

OVERVIEW

The Downtown Tucson Enhanced Municipal Services Improvement District (EMSID) was established by the City of Tucson in 1998, pursuant to A.R.S. 48-575, with the cooperation of a majority of the commercial property owners in the downtown core. The EMSID, more commonly known as the Business Improvement District (BID), was approved by the Mayor and Council, governing the delivery of services with "baseline services" performed by the City and "enhanced services" carried out by Tucson Downtown Alliance (TDA).

HISTORY

The BID was established with an initial five-year term, expiring on June 30, 2003. The BID was renewed for a second five-year term, which expires on June 30, 2008. The funding formula and boundaries remain as originally established.

Downtown properties that are not part of the BID include the Santa Rita Hotel, properties west of Granada Avenue and south of Congress, Pima County properties, State of Arizona properties, and U.S. Government properties. The Hotel Arizona and La Placita properties have recently joined the District by contract, although the BID boundaries have not been formally altered.

The Tucson Downtown Alliance (TDA) is under contract with the City of Tucson to provide the following services within the enhanced municipal district:

- Sidewalk pressure-washing
- Litter pickup, done manually and by machine vacuum
- Service pedestrian trash cans
- Graffiti Removal
- Weeding, Tree trimming
- Curb Painting
- Security

Security is also provided with foot, bicycle, and golf cart/GEM vehicle patrols, seven days a week, 16-18 hours per day. TDA's Security Department is a licensed security agency through the Arizona Department of Public Safety (DPS), and all of its personnel are licensed through DPS.

BID EXPANSION

TDA, various stakeholders, and City officials desire to extend the BID boundaries to include the areas excluded in 1998 and 2003, as well as future Rio Nuevo developments. Under this expansion, the BID would be extended westward from its present-day boundary along Granada to bring in the new arena and private property between Cushing and Congress Streets, as well as the new developments west of the freeway: the 14 acres recently offered by the City as a

development opportunity, the Mercado District at Menlo Park, the Tucson Origins Heritage Park, and the Cultural Campus—consisting of the University of Arizona's Science Center, Arizona State Museum, and the Arizona History Museum.

The expanded area is expected to see intensive new developments, accompanied by dramatically increased traffic flow. The new arena is expected to draw three quarters of a million visitors annually, and the new museums (on the west side) are anticipated to attract several hundred thousand as well.

SERVICE ASSESSMENT

Expanding the BID to the West Side would necessitate the use of a pickup truck to patrol the larger area. Foot, bicycle, and golf cart patrols could serve specific zones or districts as they presently do in downtown, in order for lightly staffed shifts to serve the entire area, they would need to rely on a truck.

Many BID members desire 24/7 security. With the increase in staffing at the Tucson Police Department's Operations Division Downtown, downtown will have 24/7 police coverage effective April 1, 2007. With this change, it is now more practical for BID Security to consider 24-hour coverage as well because BID Security personnel are not armed and it is safer and more practical for them to patrol when they can depend on police backup.

Other factors necessitating an additional nighttime security presence include:

- A developing residential base in the downtown core
- Development of the Congress Street Entertainment District; more late-night venues open to attracting increased numbers of patrons
- Downtown becoming a nighttime destination due to the new arena
- More public investment in high-quality amenities requiring vandalism protection

With additional visitors downtown, there is also a need for ambassadors to welcome, greet, and assist visitors with directions to destinations, such as parking, restrooms, lodging, restaurants, and attractions.

MAINTENANCE

BID expansion will necessitate additional staffing, the acquisition of additional equipment, and the procurement of a storage area and base of operations on the West Side. A pickup truck will be necessary to transport personnel and haul equipment between the two sides of the freeway.

Since power-washing is done primarily at night and in the dark early morning hours when parked cars and traffic do not hinder the work, an expanded BID would necessitate that a second work crew with its own equipment would need to be utilized. Two crews will have to work simultaneously in the early morning hours at different locations.

It is anticipated that extending the BID to the west side of Menlo District at Menlo Park will require the staffing of six additional full-time-equivalent personnel.

EXPANDING EXISTING SERVICES

TDA does not currently service the planters that were installed in 2005 on East Congress Street. The addition of dozens of planters and landscaped areas, and possibly, plants hung high on light poles, will require a significant commitment of qualified staff and equipment to maintain them and keep them attractive and green.

Servicing hanging planters will require either a ladder or use of a mechanized aerial work platform. Safety considerations would seem to argue against the use of ladders, and in favor of a mechanized aerial work platform, which could serve multiple purposes. Among these are the installation and change-out of street banners on a regular basis, servicing festive lighting, tree pruning, and removing debris from high places without having to rely on expensive equipment rentals.

It is anticipated that servicing the existing BID, with its improved streetscape, more planters, trees, and flower beds, will require that at least three full-time-equivalent positions be staffed.

COST & FUNDING

The City participates financially in the BID, according to the same formula used to assess private commercial properties. The formula is based on square footage of land (10.6 cents/sq. ft.) plus 5.3 cents/sq. ft. of built or improved space. Properties owned by non-profit organizations are given a 50% discount.

The BID anticipates that the cost of acquiring the needed equipment to service the expanded BID area will be approximately \$110,800, and the annual operating cost to service that area will be approximately \$398,560. Much of this funding is expected to come from the new commercial businesses currently under development on the west side.

More intensive service coverage of the existing BID area will require \$26,500 worth of new equipment. Total annual operating expanses are projected at \$315,420.

TUCSON FIRE

OVERVIEW

The Tucson Fire Department (TFD) is responsible for protecting life, safety, and property in the community. Fire Station #1, currently located at Stone Avenue and Cushing Street serves the downtown area. This station is being relocated a few blocks west to the south side of the Tucson Convention Center into a new state-of-the-art facility.

ASSESSMENT OF CAPACITY

The department reports no problems with the infrastructure in the downtown area or concerns about the impact of the Modern Streetcar on its normal operations.

TUCSON POLICE

OVERVIEW

The Tucson Police Department (TPD) has primary responsibility for public safety in the downtown area. Several years ago, the Department designated the downtown area as a separate "beat," acknowledging the unique needs of the area. This designation assisted the department in assigning the resources necessary to properly serve the area.

ASSESSMENT OF CAPACITY

As progress continues in Tucson's downtown redevelopment, TPD believes that the City must invest in the Police Department and the visibility of officers in the downtown area. With the growth occurring downtown it is critical that the Downtown Division is staffed 24 hours a day. Boundary changes scheduled for this summer will allow for significant increase in downtown staffing, removing some of the scheduling issues that created staffing shortages at certain times of the day. Future growth of the residential population in the Downtown Division is a major driving force of the new boundaries in that division, as midnight shift officers must now deal with the issues facing residential populations in addition to the general security concerns found in any central business district. It is recommended that there be an increase in the number of Walking Beat Officers, Bike Officers and Community Response Team Officers for the downtown area. Their presence and visibility in the downtown community is essential to the safety and piece of mind of residents. Increasing the number of officers by 18 (16 Officers and 2 Sergeants) would cost an estimated \$1.8 million annually.

POLICE KIOSK AT RONSTADT TRANSIT CENTER

In an effort to further enhance police visibility downtown, the police department recommends building a Police Department Kiosk located at the Ronstadt Transit Center. Having officers highly visible and available at the Ronstadt Center would have a dramatic impact on the level of safety at the center, a key downtown location. Establishing a kiosk at this heavily used, highly visible location is an excellent way to continue the efforts already in place to make downtown a safe, inviting, friendly destination for people coming downtown. The cost of a kiosk is estimated to be \$50,000.

CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN (CPTED)

As the city looks at new developments and infrastructure it is important that analysis is done which incorporates crime into site analysis. This may include numerous design principles, for instance demographic analysis, crime analysis, site analysis, use analysis, neighborhood/user consultation, pathway and lighting analysis. There cost for this is included in the cost for new officers.

DOWNTOWN SECURITY CAMERAS

A comprehensive package of communication tools can help detect and prevent crimes in the downtown area. These tools include merchant-to-merchant email alerts, radio links, enhanced security ambassadors (Downtown Alliance Officers) and closed circuit television cameras throughout downtown Tucson.

This "Safe City" concept has a long record of successes in both the United States and the United Kingdom. The concept was established in the United Kingdom where partnerships between businesses, retailers, police and local government have worked together for years to reduce crime and violence while increasing health and vibrancy in metropolitan business districts. These tools in addition to increase police presence and visibility will broaden the safety net for downtown workers, visitors and residents. These enhanced tools provide valuable assistance to police officers charged with protecting public safety. With diminishing public resources, a closed circuit camera program would provide downtown Tucson with an innovative opportunity to detect and prevent crime from occurring.

The concept of a Safe City program centers on the creation of a wireless network, which would blanket a portion of the Downtown Division policed by the Tucson Police Department. Camera locations will utilize fiber backbone or wireless transmission. The wireless network (Wi-Fi Signal) would enable the use of wireless high-definition digital video cameras, mounted at designated public areas through downtown Tucson. The cameras would be linked via wireless signal to a video network with monitors housed at the Tucson Police Department Headquarters located at 270 S. Stone. The use of wireless technology and computer monitoring will allow new camera locations to be added to the system relatively easily and inexpensively.

The cameras would be mounted on businesses and intersections in designated public areas throughout the downtown area. They have the ability to rotate 360 degrees and would have night vision capability and the ability to read a license plate up to 200 yards. Dummy cameras could be located throughout the downtown area as a visible deterrent to criminal activity. Potential suspects will never know if the camera positioned in the area is real or a decoy. Due to the minimal cost, visible deterrence to crime can be achieved by fielding a large amount of decoy cameras. The wireless system of cameras will allow for simple and cost effective expansion, redeployment and reconfiguration of the surveillance system as the downtown redevelopment continues. Officer safety and risk management issues would be improved and criminal cases would be strengthened with video evidence. A media campaign would be initiated to increase the public knowledge and awareness of the program, which would also serve as a crime deterrent. The downtown police officers would have the ability to remotely monitor and control the pan, tilt and zoom controls.

Strategic planning with City of Tucson Officials, the Tucson Police Department personnel, business owners, residents, and technology experts should take place to determine safety needs and guidelines for implementation. Police Department officials would encourage community support through open discussion at town hall meetings, making the plan a welcomed community based effort. Guidelines would need to be established with the County Attorney, City Prosecutors Office and Courts for acceptable use and successful prosecution. In order to minimize privacy concerns and uphold public trust, video would be strictly limited to publicly viewable areas. It is important to realize that a "Safe City" concept utilizes a combination of technology and information-sharing tools to empower citizens and achieve results. This program will assist Tucson residents in feeling safer and less vulnerable. Tucson Police believes the program will have a strong impact in reducing shoplifting, auto theft, panhandling and assaults in our downtown areas.

The City needs to continue looking forward to utilize technological innovations as part of the Police Departments commitment to employ the latest and most efficient law enforcement tools to protect all of our Tucson residents.

TRASH/RECYCLING PICKUP

OVERVIEW

Solid waste and recycling pickup in the downtown area are provided by the City of Tucson Department of Environmental Services (ES). Residential collections are provided exclusively by the department while commercial customers have a choice and may contract with the solid waste department or with private haulers.

Solid waste management services for the downtown area pose challenges due to the density of projected development and the desirability of mitigating solid waste collection and disposal systems.

ASSUMPTIONS

In assessing the methods available for solid waste management in a dense downtown environment, the following assumptions have been made:

- In conjunction with new construction, the Cultural Plaza will plan and set aside appropriate collection space that accommodates large capacity collection dumpster/rolloffs (approximately a 10'x30' space per rolloff).
- In conjunction with new construction, the Civic Plaza will expand the current systems in place at the Tucson Convention Center. This includes planning space allocations for large capacity dumpster/rolloffs. Rolloff capacity ranges from 20 cubic yards to 40 cubic yards and require the dimensions specified above.
- Unlike the new construction assumptions for the two plazas, the areas that comprise the Warehouse Arts District and Congress Street Entertainment District will be predominantly infill development. Solid Waste Management has established guidelines for the Fox block, and assumes that this level of service would be provided for future infill development. The level of service prohibits commercial curbside containers and requires hand-loading. While labor intensive, hand-loading does minimize the need for large equipment.

ASSESSMENT

Per the assumptions stated above, it is estimated that an additional front load truck would be needed in the first 36 months as retail and residential demand increases. At full build-out, a second front load truck would be required. Between the first 36-month development and completed build-out, ES would absorb the increased demand with existing inventory. Average cost over the next five years for new front loading trucks is estimated to be \$225,000. The vehicles should be on a 10-year replacement schedule.

There are 20 cubic yard roll-offs with compactors in the City's existing inventory. Depending on exact placement, it is highly probable there will be a need at the Civic Plaza for a large capacity (40 cubic yard) roll-off within the first 36 months. Self-contained rolloffs with compactor, which are the most desirable for food waste, are estimated to cost \$175,000. Compactors not integrated into a roll-off unit are \$25,000.

ARCHAEOLOGICAL SERVICES (CITY OF TUCSON)

OVERVIEW

Archaeological services are under the City of Tucson Urban Planning and Design (UPD) Department. This service is provided under the 1999 Administrative Directive requiring assessment and appropriate treatment of archaeological and historic resources impacted by publicly funded capital improvement projects. This directive covers all COT, Rio Nuevo, Pima County and State of Arizona projects occurring within the study area. Federally funded projects also carry this requirement and are often more complicated as the federal agency oversees the process of assessing and addressing cultural resources.

Archaeological assessment is carried out by one of four on-call contractors. Desert Archaeology, Inc. had the sole on-call for 17 years, so they have provided the following status and cost estimates for the remaining City of Tucson held parcels.

ASSESSMENT

UPD reviewed all City-owned parcels in the downtown study area to determine the status of archaeological assessments. Costs for remaining work were identified.

COSTS & FUNDING

The cost for assessing the remaining publicly-owned properties within the study area is estimated to be \$3.3 million. A detailed parcel-by-parcel explanation of these estimates is attached.

City of Tucson Urban Planning & Design Downtown Infrastructure - Archaeology

owntown Infrastructure - Ar	chaeology				-		1 Const to	
						1	Cost to	
						Cost for	Infrastructure	
# Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
-3 City/County Courts I		City of Tucson/Pima Co.		-			-	
	117160140			Archaeology underwa	w Pima County		\$0	1
	117160140			Archaeology underwa			ψι	
	117160160							
	117160180							
	117160230							
	117160200							
	117160260							
-4 Cultural Plaza/Mission		01						
-4 complex		City of Tucson						
	11623090A			Archaeology	Mission project	\$0.00	\$0	
	11620031B			completed and	Rio Nuevo			
	110200010			underway				
-5 Diamond Rock Plaza		HSL/Roger Karber		underway				
-5 Diamonu Rock Plaza	117200310	City of Tucson			TIF	\$25,000.00	\$25,000	Cost is for both COT lots.
			404 M/ D		IIF	\$25,000.00	\$25,000	COST IS TOT DOLTI COT TOTS.
	11720019A		181 W. Broadway					
	11720019B	HSL Circle Properties	175, 177, & 179 W. Broadway					
	11720016C	City of Tucson						
-6 Downtown Fire Station		City of Tucson						
	11713069E			Archaeology underway	y, Capital project			
				Testing complete			\$0	
10 MLK Block		WDD/City of Tucson						
	11706089A	2		Archaeology done,				
	117060950			MOA signed	HUD Project		\$0)
	117060940							
	11706183A							
	11700103A							
11 Presidio Terrace		Reliance/Peggy Noonan						
TT Flesiulo Terrace	116192310	Reliance/Feggy Noonan		Archaeology almost	Community Service	26	\$0	Reviewing impact on Paseo Redondo
	110192310			complete	Community Service		ψυ	Reviewing impact of 1 aseo Redolido
-2 Arena		City of Tucson		complete				
	110001000	City of Tucson			Anna anairat	¢00.000.00	¢00.000.00	Dert der e
	116201390				Arena project	\$90,000.00	\$90,000.00	Part done.
	116201360							Included in project budget??
	11620041B							
	11620042B							
	11620043B							
	11620044B							
-4 El Mirador		City of Tucson (Town West)						
	11705068D			Assessment	Rio Nuevo	\$86,000.00	\$ 86,000.00)
	11705068C			complete				
-5 La Placita		Bourn Partners						
		Dourn annors						

						Cost for	Cost to Infrastructure	
ID# Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
	r arcer #		Address	otatao	. and	·······································		Park is City-owned, any mofification would
	11720016F	BP La Placita Village Investors						be handled through normal cultural resource review process
	117200180	City of Tucson						·
	11720017B	City of Tucson						
	11720016H	Metro, Tucson TC & Visitors Bureau	100 S. Church					
	11720016G	BP La Placita Village Investors	120 W. Broadway, 110 & 222 S. Church					
G-6 Menlo Park 12-acres		City of Tucson						
	11620137A	ony of rucson		Cleared		\$0.00	\$0	Cleared for development
	11620137A			oloaroa		\$0.00	ç u	
	116201250							
	11620124B							
	116201260							
	116201280							
	116201270							
	11620129A							
	116201320							
	116201330							
	116201340							
G-7 Museum complex		City of Tucson						
•	11620031D	2		Completed and	Rio Nuevo	\$0.00	\$0	
	116200320			underway				
G-8 Plaza Centro		Oasis/Jim Campbell						
G-o Plaza Cellulo	11706175A	City of Tucson	Former Greyhound, 2 S. 4th Av	Preliminary	Rio Nuevo	\$228,000.00	\$ 228.000.00	Not determined if developer or COT will
	11706162C	Union Pacific	330 N. Toole Ave	assessment		φ220,000.00	φ 220,000.00	fund. Development agreement will determ
	11706562C	Union Pacific	330 N. 100le Ave	assessment				lund. Development agreement will determ
			396, 400, 410, 414 & 418 N.					
	11706081D	City of Tucson	Toole					
G-9 Police Department TENTATIVE		City of Tucson						
	117200250	City of Tucson/Fuel Island	260 S. Stone		COT Capital budge	et		Depends on final placement of new structures.
G-11 Ronstadt Transit Ctr		City of Tucson						
	11706097A			Cleared		\$0.0	<u></u>	Cleared in current footprint
				Cicaleu		φ0.0	φU	If center is moved, assessment will be
	11706185A							needed.
G-12 Sixth Avenue & Toole	447000015	City of Tucson			TDOT	\$101 000 CC		
	11706081D		*Parcel is NW Train Depot	Cleared NE of	TDOT	\$164,000.00	\$0	Cleared NE of Toole Ave - Desert Arch.
	117060820		Parking Lot	Toole Ave.				working on balance. Testing recommended
	117060830		Parking Lot					in previous report.
	117060850 117060840		Parking Lot Parking Lot					

								Cost to	
							Cost for	Infrastructure	
ID#	Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
G-13	TCC Expansion		City of Tucson					•	
	(TCC AREA)	11720029A	City of Tucson		Probably OK	TIF	\$25,000 for	\$25,000	
	DI 1 475		222				assessment and te	esting	
Y-3	Block 175	11710089A	DDC			TIE an Davialan an	¢4,000,000,00	¢1 000 000	Significant recourses on this narroad
		11710089A				TIF or Developer	\$1,200,000.00	\$1,200,000	Significant resources on this paracel
	I-10 frontage @ Cushing -								
Y-5	22nd		Private development						
		116200460	Private	418 S SENTINEL AV	Data recovery plan		1,350,000	\$1,350,000	
		116200470	Private	608 W MESA ST	prepared for a portion -				
		116200540		609 W MESA ST	will develop estimate.				
		116200550							-
		116200560		406 S SENTINEL AV					-
		116200570		440 S SENTINEL AV					1
<u> </u>		116200580		none					1
<u> </u>		116200650		617 W PEAK ST					1
<u> </u>		116200660		500 S SENTINEL AV					1
		116200670		320 S SENTINEL AV					
		116200680		615 W SIMPSON ST					-
		116200690		618 W SIMPSON ST					-
<u> </u>		116200780		337 S SENTINEL AV					-
		116200790		387 S SENTINEL AV					-
		116200800	Private	421 S SENTINEL AV					-
		116200810							-
		116200820		425 S SENTINEL AV					-
		116200830		435 S SENTINEL AV					-
		116200840							-
		116200850		none					-
		116200860		443 S SENTINEL AV					-
		116200870		none					-
		116200880		none					-
		116200890		406 S SENTINEL AV				1	1
		116200900		473 S SENTINEL AV				1	1
		116200910		none					1
		116201400		331 S SENTINEL AV					1
		116230190	Private	712 W 18TH ST					Many of these lots are not private but state.
		116230200	Private	714 W 18TH ST					\$1.35 million represents an approximation
		116230210	Private	708 W 18TH ST					of public property that will be included in this
<u> </u>		116230220		704 W 18TH ST					project.
		116230230		718 W 18TH ST					
<u> </u>		116230240		713 W 18TH ST					
		116230250		725 W 18TH ST					
<u> </u>		116230260		720 W GREEN ST					
<u> </u>		116230270		701 W 18TH ST					1
		116230290		704 W GREEN ST					
		116230560		717 W GREEN ST					

							Cost for	Cost to Infrastructure	
ID#	Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
		116230590	Private	949 S FREEWAY				-	
		116230750		747 S FREEWAY					
		117190600	CITY	No address available					
		11714356A	CITY]				
		11620045B	Private						
		11623058A	Private	705 W GREEN ST					
		11623058B	Private						
		11623144A	Private	1007 S FREEWAY					
		11623154C	Private						
		11623154D	Private]				
		11623155B	Private	1125 S I10 WB FRONTAGE RD	1				
		11623555B	Private		1				
		11623155E	Private?	601 W SIMPSON ST					
		11623555C	Private						
		11623555D	Private						
		117143570	CITY	510 W 18TH ST					
		11708164B	CITY	501 W 18TH ST					
		11708165B	CITY		1				
		11708166B	CITY		1				
		11708169A	CITY	910 S OSBORNE AV	1				
		11708170A	CITY		1				
		11708171A	CITY		1				
		11708172A	CITY		1				
		11708173A	CITY]				
		11708174A	CITY	934 S OSBORNE AV	1				
		11708175A	CITY	540 W 20TH ST	1				
		11708176A	CITY	937 S OSBORNE AV	1				
		11709082B	CITY	500 W 20TH ST					
		11709083A	CITY	555 W 20TH ST		1			
		11709092A	CITY						
		11719059A	Private						
		11623155D	CITY						

Y-6 Norville Exhibition Ctr	Alan Norville/Eric Hutchens				
11620023	J	Assessment	N/A	\$0.00	\$0
11620023	H	done			
11713061					
11713061	Р				
11713061	N				
11720030	0				
11713069	D				

								Cost to	
							Const form		
	n de la companya de l				0		Cost for	Infrastructure	
ID#	Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
Y-7	Plaza San Agustin		Private development						
		117131620	De La Warr Investment Corp	141 S. Stone	Likely historic	Private developer	\$545,000.00	\$0	
		117131610	De La Warr Investment Corp	23 E. Ochoa	period resources				
		117131630	De La Warr Investment Corp						
		117131640	De La Warr Investment Corp						
		117131650	De La Warr Investment Corp						
		117131660	De La Warr Investment Corp						
		117131680	De La Warr Investment Corp						
		117131660	De La Warr Investment Corp						
<u> </u>		117131670	De La Warr Investment Corp						
<u> </u>		117131760	De La Warr Investment Corp						
<u> </u>		117131750	De La Warr Investment Corp						
<u> </u>		117131740	De La Warr Investment Corp						
		117131770	De La Warr Investment Corp						
<u> </u>		117131730	De La Warr Investment Corp						
—		117131780	De La Warr Investment Corp						
<u> </u>		117131780	Bring Funeral Home						
<u> </u>			Bring Funeral Home Bring Funeral Home						
		117131800		000.0.0#					
<u> </u>		117131720	Bring Funeral Home	236 S. Scott					
	<u></u>		B 1 1 1 1 1						
<u>Y-9</u>	Steinfeld West Triangle		Private development						D
		117100590	Madsen James E. and Deboral			Private	\$80,000 for privat	e parcels	Private developer build out.
		117100550	Madsen James E. and Deboral	1					
		117100540	State of Arizona			TIF	\$80,000 for all sta	ate parcels)	If City purchases lot.
		117100390	State of Arizona						
1		117100570	_						
		117100560	_						
		117100560 117100520	_ State of Arizona	302, 402 & 406 N. Church Ave.					
		117100560 117100520 11710049B	State of Arizona	302, 402 & 406 N. Church Ave.					
		117100560 117100520	State of Arizona 	302, 402 & 406 N. Church Ave.					
		117100560 117100520 11710049B 11710041A		302, 402 & 406 N. Church Ave.					
	Warehouse District Sou	117100560 117100520 11710049B 11710041A	State of Arizona 	302, 402 & 406 N. Church Ave.					
	Warehouse District Sou	117100560 117100520 11710049B 11710041A		302, 402 & 406 N. Church Ave.					
		117100560 117100520 11710049B 11710041A	City of Tucson/private	302, 402 & 406 N. Church Ave.					Estimate being prepared
		117100560 117100520 11710049B 11710041A	City of Tucson/private	302, 402 & 406 N. Church Ave.					Estimate being prepared
		117100560 117100520 11710049B 11710041A th 117160050	City of Tucson/private	302, 402 & 406 N. Church Ave.					Estimate being prepared
		117100560 117100520 11710049B 11710041A th 117160050 117160060	City of Tucson/private	302, 402 & 406 N. Church Ave.					Estimate being prepared
Y-10 (117100560 117100520 11710049B 11710041A th 117160050 117160060	City of Tucson/private development	302, 402 & 406 N. Church Ave.					Estimate being prepared
P-10 (of RR	117100560 117100520 11710049B 11710041A th 117160050 117160060	City of Tucson/private	302, 402 & 406 N. Church Ave.					Estimate being prepared
P-10 (of RR	117100560 117100520 11710049B 11710041A th 117160050 117160060	City of Tucson/private development	302, 402 & 406 N. Church Ave.	Most cleared	СОТ	\$135,000.00	\$0	Estimate being prepared
P-10 (of RR	117100560 117100520 11710049B 11710041A th 117160050 117160050 117160060	City of Tucson/private development	302, 402 & 406 N. Church Ave.	Most cleared	COT	\$135,000.00	\$0	Estimate being prepared
B-1 (of RR I-10 frontage @ Congress, se	117100560 117100520 11710049B 11710041A th 117160050 117160050 117160060	City of Tucson/private development Private development	302, 402 & 406 N. Church Ave.	Most cleared	COT	\$135,000.00	\$0	Estimate being prepared
B-1 (of RR	117100560 117100520 11710049B 11710041A th 117160050 117160060 117160070 116201350	City of Tucson/private development	302, 402 & 406 N. Church Ave.		СОТ	· ·		Estimate being prepared
B-1 (of RR I-10 frontage @ Congress, se	117100560 117100520 11710049B 11710041A 11710041A 117160050 117160060 117160070 116201350 116201350 11710072A	City of Tucson/private development Private development	302, 402 & 406 N. Church Ave.	Most cleared Likely archaeology		\$135,000.00	\$0 \$218,000	Estimate being prepared
B-1 (of RR I-10 frontage @ Congress, se	117100560 117100520 11710049B 11710041A th 117160050 117160050 117160060 117160070 116201350 11710072A 11710072A 11710069A	City of Tucson/private development Private development	302, 402 & 406 N. Church Ave.			· ·		Estimate being prepared
B-1 (of RR I-10 frontage @ Congress, se	117100560 117100520 11710049B 11710041A th 117160050 117160050 117160060 117160070 116201350 116201350 11710072A 11710069A 11710069B	City of Tucson/private development Private development	302, 402 & 406 N. Church Ave.			· ·		Estimate being prepared
B-1 (of RR I-10 frontage @ Congress, se	117100560 117100520 11710049B 11710041A th 117160050 117160050 117160060 117160070 116201350 11710072A 11710072A 11710069A	City of Tucson/private development Private development	302, 402 & 406 N. Church Ave.			· ·		Estimate being prepared

Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	Cost for remaining work	Cost to Infrastructure Effort	Comments
	r aroor #		Address					
Library Plaza South		City of Tucson						
Library Plaza obaal	117110720							Some work done at time of construct
	117110710							
	11711069C							
Library Plaza West		Private development						
	11711064C		*Section for library only					Some work done at time of construct
Mercado extension		Private development						
	11618254B	·		Private			\$ -	
	11618254C							
	116182530							
	116182520							
	116182510							
	11618250A		1002 W. Congress				\$0	
	11618250B		1002 W. Congress					
	116182270							
	116182260							
	11618224A							
	116182230							
	116182220							
	116182210							
	116181940							
	116181960							
	116183200							
	116213020							
	116213030							
	11620010B							
	11620010C							
	116191290							
	116191300							
	11619131A							
	116210270							
	116210260							
	116210250							
	116210240							
	116210230							
	116210220							
	116210020							
	116210010							
	116213040							
Millstone Site		Joe Millstone						
	11619153A	First Family Co. Ltd.	460 N. Freeway	Private				Have information as a result of I-10 v
	11619154C	First Family Co. Ltd.	450 N. Freeway					Some resources found.
	116193780	City of Tucson			COT			Some work done

							Cost for	Cost to Infrastructure	
ID#	Project	Parcel #	Owner - COT/Private	Address	Status	Funding source	remaining work	Effort	Comments
B-11	TCC 1,2,3		City of Tucson/Private development						
	(TCC AREA)	117200260	City of Tucson						Parking lots on fill, will need assessment.
B-12	Theresa Lee site		Pima County						
		11620027A			Building Assesment done.	Rio Nuevo	\$117,000.00	\$0	Archaeology remains to be done.
B-13	Warehouse District North of RR		Private development						
		117050650			Private			\$0	
		117050640							Some of area assessed as part of streetcar
		117051340							project. Historic architectural resources
		117160020							present.
		11716001A							
		11705069B 11705069A							
		11705069A 11705074A							
		11705080B							
		11705080C							
ΤΟΤΑ	LS								

ENVIRONMENTAL TECHNICAL SERVICES

OVERVIEW

Environmental Technical Services (ETS) is a division of the City's Environmental Services Department that has responsibility for environmental impacts at inactive landfills and Brownfields sites. ETS has responsibility for identifying, assessing, and remediating environmental issues at City-owned sites.

GUIDELINES

Phase I Environmental Site Assessments (ESAs) are completed for all City property acquisitions and/or conveyance of City-owned property to a new owner. Phase II ESAs will be completed for "recognized environmental conditions" (RECs) as recommended in the Phase I ESA report.

Phase I Environmental Site Assessments (ESA)

- Phase I ESAs shall be conducted for City-property purchases.
- Phase I ESAs shall be conducted in accordance with ASTM E1527-05 and continuing obligations must be met in order to ensure CERCLA liability protection.
- Phase I ESAs shall be completed within one year prior to the date of property acquisition with the exception that the following components must be completed/updated within 180 days of purchase date:
 - 1. Interviews
 - 2. Searches for environmental cleanup liens
 - 3. Government records review
 - 4. Visual inspection of property/adjoining property(s)
 - 5. Declaration regarding qualifications of the Environmental Professional
- Phase I ESAs conducted on private property will require a written access agreement with existing property owner to conduct a site inspection of the subject property as per "all appropriate inquiry" rule, ASTM E1527-05.

Phase II Environmental Site Assessments (ESA)

- The end use of the property must be known in order to adequately scope Phase II
 activities and define appropriate cleanup levels.
- Existing environmental conditions in the project area could potentially impact proposed subsurface structures.
 - 1. Investigation, remediation, and design costs may increase substantially due to existing environmental conditions.
 - 2. Engineering/institutional controls may need to be implemented.
 - 3. Project constructability may be influenced by environmental conditions.
- Existing agreements with previous property owners along the Union Pacific Railroad corridor must be carefully assessed prior to design and construction activities due to contractual obligations associated with environmental liabilities.
- Complexity and costs of Phase II ESAs vary significantly from property to property.

ASSESSMENT

For this study, ETS completed the tasks listed below. Costs were assigned based on assessment and remediation work yet to be completed.

- Reviewed existing environmental reports pertaining to parcels underlying identified development area(s) indicated in the Downtown Development and Infrastructure Projections Map dated, March 5, 2007.
- Identified known status of environmental conditions at each project area based upon existing reports as of March 30, 2007.
- Projected recommended additional environmental work to be performed.
- Projected costs for additional environmental work to be performed based on existing environmental data.
- Defined limitations and assumptions
- Prepared an appendix of existing environmental reports on file

COSTS & FUNDING

The following assumptions were made when completing the Downtown Development and Infrastructure Projections:

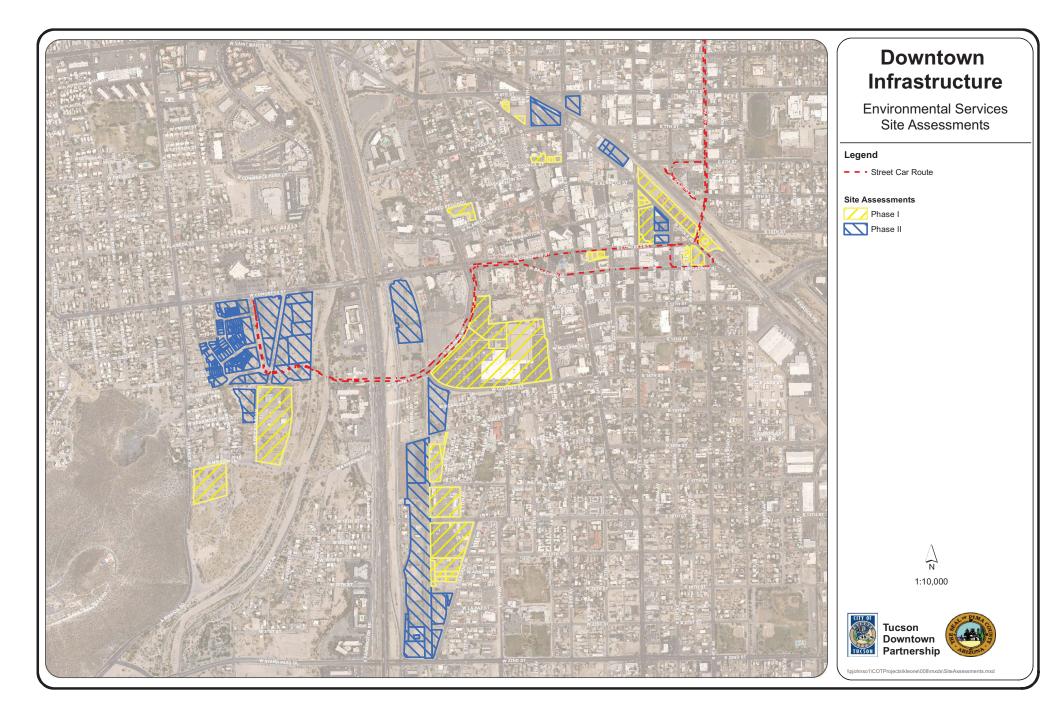
- Costs in 2007 dollars.
- Costs have been estimated to the next level of environmental assessment needed. Final total costs can only be determined once all investigation is complete.
- Costs have not been developed for private properties due to lack of environmental information.
- Costs of asbestos pre-demolition work will be dependent on square footage of existing structures.
- Cost projection does not include operations and maintenance costs if remediation is necessary.
- Soil borings costs:
 - 1. Assume 50 foot depth along Union Pacific railroad corridor (adjoining properties) and 80 foot depth elsewhere
 - 2. Samples collected at 10-foot intervals
- Public and private monitoring wells can be found throughout the underlying identified development area. Their locations must be considered during site design and pre-construction. Right of entry and access agreements for future monitoring activities may be needed.
- Some sites in the project area may have land use/title restrictions and/or environmental remediation systems due to historical environmental conditions.
- Soils in the project area may have been impacted by environmental conditions in the perched aquifer (depth may vary in the shallow groundwater zone).
- Unknown Recognized Environmental Conditions may be encountered and should be addressed during site construction activities.

The total estimated environmental costs for Phase I and II assessments and known remediation for identified parcels is \$22.2 million. It is anticipated that much of this funding may come from

TIF. Other sources of funds typically used for assessment and remediation include EPA Brownsfields grants and City-department capital budgets where applicable.

LIMITATIONS

Environmental Services shall not be responsible for conditions or consequences arising from relevant facts that were not readily available or fully disclosed. Environmental Services has assumed the information used to generate environmental costs/activities is true, correct, accurate, and complete, and has not conducted an independent examination of the materials and statements.



City of Tucson Environmental Service Estimated Environmental Assessment/Remediation Costs for Rio Nuevo Downtown Redevelopment Target Areas (for City of Tucson Properties)

					Phase I completed		Phase II completed		Estimated Environmental	
D#	Project	Parcel #	Owner - COT/Private	Address	Yes/No	Phase I - Date		Phase II Date		Cost Assumptions/ Notes
0-1	44 Broadway I		Pon Schwabe		·		·		\$0	Private property
		11713038F	44 Broadway Bloak LLC	、34 E. Broadway & 44 E. ´Broadway						
		11/13030F			No		No			
		11713037A	Williams Gary Intl.	50,56,60 E. Broadway & 57 E.						
0.0		111 1000171	Bonding Corp.	Jackson St.	No		No		AT 000	
0-2	Carlos Arruza Block	*	City of Tucson						\$5,000	Phase I update
	(TCC AREA)	*same as B-11 parcel	City of Tucson		Yes	06/20/06	No			
0-3	City/County Courts I		City of Tucson/Pima							
0-3	City/County Counts I		Co.						\$0	Funded by Pima County
		117160140			No		No			
		117160150			No		No			
		117160160			No		No			
		117160180			No		No			
		117160230		Former UST Site	No		No			
		117160200			No		No			
		117160260			No		No			
O-4 O-5	Cultural Plaza/Mission		City of Tucson						\$10,559,400	Phase II and remediation
	complex	11623090A			Yes	05/01/05	No		\$10,559,400	Does not include waste disposal fee
					163	03/01/03	NO			\$8.9 million approved by Mayor and
		11620031B			Yes	05/01/05	No			Council on 6/27/06
	Diamond Rock Plaza		HSL/Roger Karber						\$5,000	Phase I on City properties
		117200310	City of Tucson		No		No			
		11720019A	Pueblo Center Partners	181 W. Broadway	No		No			
		11720019B	HSL Circle Properties	175, 177, & 179 W. Broadway	No		No			
		11720016C	City of Tucson		No		No			
0-6	Downtown Fire Station		City of Tucson						\$0	Under development
		11713069E			Yes	05/05/06	Yes	02/09/07		
0-7	Julian Drew Block		Ross Rulney							Private property
		117170020	Lewis Hotel LLC	177 E. Broadway	No		No			
		117170010	Lewis Hotel LLC	178, 179, 180, 188 E. Broadway	No		No			
		117170090	Lewis Hotel LLC	118 S. 5th Av	No		No			
		117170100	Tiberon Apts.	128 S. 5th Av	No		No			
0.0			VantagePoint/Geo.							
	Lofts on 5th Avenue		Pilloton						\$0	Private property
					No		No			
	Mercado District		Rio Development						\$0	Property currently under developme
		116206240			Yes	05/01/05	Yes	09/01/05		
		116206280			Yes	05/01/05	Yes	09/01/05		
		116206290			Yes	05/01/05	Yes	09/01/05		
		116205330			Yes	05/01/05	Yes	09/01/05		
		116206260			Yes	05/01/05	Yes	09/01/05		
		116206230			Yes	05/01/05	Yes	09/01/05		
		116205240			Yes	05/01/05	Yes	09/01/05		

			Phase I completed		Phase II completed	Estimated Environmen	tal
ID# Project Parc	el # Owner - COT/Private	Address	Yes/No	Phase I - Date		Phase II Date Costs	Cost Assumptions/ Notes
	05270	Address	Yes	05/01/05	Yes	09/01/05	
	05250		Yes	05/01/05	Yes	09/01/05	
	05300		Yes	05/01/05	Yes	09/01/05	
	05280		Yes	05/01/05	Yes	09/01/05	
	05260		Yes	05/11/05	Yes	09/01/05	
	05230		Yes	05/01/05	Yes	09/01/05	
	05340		Yes	05/01/05	Yes	09/01/05	
	05310		Yes	05/01/05	Yes	09/01/05	
	05290		Yes	05/01/05	Yes	09/01/05	
1162	06240		Yes	05/01/05	Yes	09/01/05	
	05320		Yes	05/01/05	Yes	09/01/05	
1162	06270		Yes	05/01/05	Yes	09/01/05	
1162	05350		Yes	05/01/05	Yes	09/01/05	
1162	05360		Yes	05/01/05	Yes	09/01/05	
1162	05370		Yes	05/01/05	Yes	09/01/05	
1162	05380		Yes	05/01/05	Yes	09/01/05	
1162	05390		Yes	05/01/05	Yes	09/01/05	
1162	05400		Yes	05/01/05	Yes	09/01/05	
1162	05420		Yes	05/01/05	Yes	09/01/05	
1162	05430		Yes	05/01/05	Yes	09/01/05	
1162	05450		Yes	05/01/05	Yes	09/01/05	
1162	05460		Yes	05/01/05	Yes	09/01/05	
1162	05410		Yes	05/01/05	Yes	09/01/05	
1162	05440		Yes	05/01/05	Yes	09/01/05	
	06230		Yes	05/01/05	Yes	09/01/05	
1162	06270		Yes	05/01/05	Yes	09/01/05	
	05500		Yes	05/01/05	Yes	09/01/05	
-	05480		Yes	05/01/05	Yes	09/01/05	
	05470		Yes	05/01/05	Yes	09/01/05	
	05490		Yes	05/01/05	Yes	09/01/05	
	05530		Yes	05/01/05	Yes	09/01/05	
	05510		Yes	05/01/05	Yes	09/01/05	
	05520		Yes	05/01/05	Yes	09/01/05	
	06260		Yes	05/01/05	Yes	09/01/05	
	06300		Yes	05/01/05	Yes	09/01/05	
	06240		Yes	05/01/05	Yes	09/01/05	
	05590		Yes	05/01/05	Yes	09/01/05	
	05600		Yes	05/01/05	Yes	09/01/05	
	05580		Yes	05/01/05	Yes	09/01/05	
	05570		Yes	05/01/05	Yes	09/01/05	
	05560		Yes	05/01/05	Yes	09/01/05	
	05550		Yes	05/01/05	Yes	09/01/05	
	06230		Yes	05/01/05	Yes	09/01/05	
	05540		Yes	05/01/05	Yes	09/01/05	
	05610		Yes	05/01/05	Yes	09/01/05	
	05660		Yes	05/01/05	Yes	09/01/05	
	05670		Yes	05/01/05	Yes	09/01/05	
	05680		Yes	05/01/05	Yes	09/01/05	
L1162	06230		Yes	05/01/05	Yes	09/01/05	

in # Deviced		Ourse COT/Driveta		Phase I completed	Dhara I. Data	Phase II completed	Dhara II Data	Estimated Environmental	
	Parcel #	Owner - COT/Private	Address	Yes/No	Phase I - Date		Phase II Date	COSIS	Cost Assumptions/ Notes
	116205700			Yes	05/01/05	Yes	09/01/05		
	116205690			Yes	05/01/05	Yes	09/01/05		
	116205710			Yes	05/01/05	Yes	09/01/05		
	116206270			Yes	05/01/05	Yes	09/01/05		
	116205620			Yes	05/01/05	Yes	09/01/05		
	116205630			Yes	05/01/05	Yes	09/01/05		
	116205640			Yes	05/01/05	Yes	09/01/05		
	116205790			Yes	05/01/05	Yes	09/01/05		
	116205780			Yes	05/01/05	Yes	09/01/05		
	116205770			Yes	05/01/05	Yes	09/01/05		
	116205760			Yes	05/01/05	Yes	09/01/05		
	116205750			Yes	05/01/05	Yes	09/01/05		
	116205740			Yes	05/01/05	Yes	09/01/05		
	116205720			Yes	05/01/05	Yes	09/01/05		
	116205730			Yes	05/01/05	Yes	09/01/05		
	116205820			Yes	05/01/05	Yes	09/01/05		
	116205830			Yes	05/01/05	Yes	09/01/05		
	116206230			Yes	05/01/05	Yes	09/01/05		
	116205740			Yes	05/01/05	Yes	09/01/05		
	116205850			Yes	05/01/05	Yes	09/01/05		
	116206240			Yes	05/01/05	Yes	09/01/05		
	116205900			Yes	05/01/05	Yes	09/01/05		
	116205890			Yes	05/01/05	Yes	09/01/05		
	116205910			Yes	05/01/05	Yes	09/01/05		
	116205880			Yes	05/01/05	Yes	09/01/05		
	116205920			Yes	05/01/05	Yes	09/01/05		
	116206230			Yes	05/01/05	Yes	09/01/05		
	116205940			Yes	05/01/05	Yes	09/01/05		
	116205950			Yes	05/01/05	Yes	09/01/05		
	116205960			Yes	05/01/05	Yes	09/01/05		
	116205970			Yes	05/01/05	Yes	09/01/05		
	116205980			Yes	05/01/05	Yes	09/01/05		
	116205990			Yes	05/01/05	Yes	09/01/05		
	116206160			Yes	05/01/05	Yes	09/01/05		
	116206170			Yes	05/01/05	Yes	09/01/05		
	116206230			Yes	05/01/05	Yes	09/01/05		
	116206180			Yes	05/01/05	Yes	09/01/05		
	116206080			Yes	05/01/05	Yes	09/01/05		
	116206090			Yes	05/01/05	Yes	09/01/05		
	116206190			Yes	05/01/05	Yes	09/01/05		
	116206200			Yes	05/01/05	Yes	09/01/05		
	116206210			Yes	05/01/05	Yes	09/01/05		
	116206100			Yes	05/01/05	Yes	09/01/05		
	116206030			Yes	05/01/05	Yes	09/01/05		
	116206110			Yes	05/01/05	Yes	09/01/05		
	116206020			Yes	05/01/05	Yes	09/01/05		
	116206010			Yes	05/01/05	Yes	09/01/05		
	116206000			Yes	05/01/05	Yes	09/01/05		
	116206120			Yes	05/01/05	Yes	09/01/05		
L				100	00/01/00	100	00/01/00		

ID# Project	Dereel #	Owner - COT/Private	Address	Phase I completed Yes/No	Phase I - Date	Phase II completed Xes/No	Phase II Date	Estimated Environmental Costs	Cost Assumptions/ Notes
ID# Project	Parcel #	Owner - COT/Private	Address					COSIS	Cost Assumptions/ Notes
	116206130 116206310			Yes	05/01/05 05/01/05	Yes Yes	09/01/05		
	116206310			Yes Yes	05/01/05	Yes	09/01/05		
	116206230			Yes	05/01/05	Yes	09/01/05		
	116206140			Yes	05/01/05	Yes	09/01/05		
	116206150			Yes	05/01/05	Yes	09/01/05		
	116206050			Yes	05/01/05	Yes	09/01/05		
	116206050			Yes	05/01/05	Yes	09/01/05		
	116206070			Yes	05/01/05	Yes	09/01/05		
	116206250			Yes	05/01/05	Yes	09/01/05		
	116206220			Yes	05/01/05	Yes	09/01/05		
	11620130A			Yes	05/01/05	Yes	09/01/05		
	11620130A			Yes	05/01/05	Yes	09/01/05		
O-10 MLK Block	11020131A	WDD/City of Tucson		163	03/01/03	163	03/01/03	\$264,550	Remediation of contaminated soil
U-TU-WILK DIOCK	11706089A		345 E. Toole, Phase I 3-02-06	Yes	10/15/2003	Pre Demo ACM		φ <u>204</u> ,330	Remediation of contaminated soll
	117060950		0-0 L. 10016, 1 Hase 1 3-02-00	Yes	10/15/2003	Yes	03/02/06		
	117060940			Yes	10/15/2003	Yes	03/02/06		
	11706183A			Yes	10/15/2003	Pre Demo ACM	03/02/00		
	11700183A	Reliance/Peggy		Tes	10/15/2003	FIE Dellio ACIVI			
O-11 Presidio Terrace		Noonan						\$0	Property currently under development
	116192310	NUUIIdii	Recommend Updated Phase I	Yes	11/5/2004	No		φυ	Troperty currently under development
O-12 Rialto Block/Congress	110192310	Rialto/Biggers	Recommend opdated i hase i	163	11/3/2004	NO		\$0	Private property
0-12 Rialto Block/Colligiess	11706168B	Ridito/Diggets		No		No		ψυ	T fivate property
	11706168B			Yes	12/23/97	No			
	11706168A			No	12/23/97	No			
	117061740			No		No			
	11706177B			Yes	12/23/97	No			
	11700177B			Tes	12/23/97	INU			
O-13 Santa Rita Resort/Condo)	Pathway Developments						\$0	Private property
	11717022B			No		No		ψυ	T fivate property
	11717022B			No		No			
	11717025C			No		No			
	11717020A			No		No			
		Hotel Corp. Downtown		NO		INO			
	11717030A	Tucson	142 S. 6th	No		No			
O-14 The Post		Bourn Partners		INU				\$0	Private property
	117120850		Pre-Phase I : May 2002	Yes	11/15/2006	No		ψυ	i mate property
	117120850		Pre-Phase I : May 2002	Yes	11/15/2006	No			
	11712083A		Pre-Phase I : May 2002	Yes	11/15/2006	No			
	11712083B		Pre-Phase I : May 2002	Yes	11/15/2006	No			
G-1 200 Block	117 120030	W&D		1 03	11/10/2000	140		\$0	Private property
C-1 ZOU BIOCK	11706187D	TT&D		No		No		VV	i mate property
	11706193A			No		No			
	117062000		Former UST Site	No		No			
G-2 Arena	117002000	City of Tucson		INU		110		\$5,000	Phase I
G-2 Alena								\$3,000	Phase I may be needed depending on
	116201390			No		No			findings. Cost to be determined.
	116201360			No		No			
	116201360 11620041B			No		No			
	11020041B			INU		INU			

ID# Project	Parcel #	Owner - COT/Private	Address	Phase I completed Yes/No		ase II mpleted s/No	Phase II Date	Estimated Environmental Costs	Cost Assumptions/ Notes
•	11620042B			No		No	-		
	11620043B			No		No			
	11620044B			No		No			
G-3 City/County Courts II		City of Tucson/Pima							
		Co.						\$0	Funded by Pima County
	117160170			No		No			
	117160280			No		No			
	117160300			No		No			
	117160310			No		No			
	117160380			No		No			
	117160320 11716029A			No		No No			
	11716029A 117160360			No No		No			
	117160360			No		No			
	117160370			No		No			
	117 100330	City of Tucson (Town		INO		NO			
G-4 El Mirador (Franklin Lo	t)	West/Jim Horvath)						\$23,950	Additional Phase II work
2	11705068D			Yes	12/15/2005	Yes	12/04/06	<i>420,000</i>	
	11705068C			Yes	12/15/2005	Yes	12/04/06		
									Potential Waste Water Permits required
G-5 La Placita		Bourn Partners						\$25,000	on City-owned properties
	11720016F	BP La Placita Village							
	11/20016F	Investors		No		No			
	117200180	City of Tucson		No		No			
	11720017B	City of Tucson		No		No			
	11720016H	Metro, Tucson TC & Visitors Bureau	100 S. Church	No		No			
	11720016G	BP La Placita Village	120 W. Broadway, 110 & 222 S.						
	117200100	Investors	Church	No		No			
G-6 Menlo Park 12-acres		City of Tucson						\$93,900	Phase II and remediation
	11620137A			N/ a	05/04/05	N/ a	05/04/00		Phase II findings indicate possible UST
	440004074			Yes	05/01/05	Yes	05/01/06		in sidewalk area.
	11620137A			Yes	05/01/05	Yes	05/01/06		
	116201250 11620124B			Yes Yes	05/01/05	Yes Yes	05/01/06		
	11620124B			Yes	05/01/05	Yes	05/01/06		
	116201280			Yes	05/01/05	Yes	05/01/06		
	116201200			Yes	05/01/05	Yes	05/01/06		
	11620129A			Yes	05/01/05	Yes	05/01/06		
	116201320			Yes	05/01/05	Yes	05/01/06		
	116201330			Yes	05/01/05	Yes	05/01/06		
	116201340			Yes	05/01/05	Yes	05/01/06		
G-7 Museum complex		City of Tucson						\$9,900,000	Remediation
	11620031D			Yes	05/01/05	Yes	multiple reports	3	Does not include waste disposal fees
	116200320			Yes	05/01/05	Yes	multiple reports		· · · · · · · · · · · · · · · · · · ·
G-8 Plaza Centro		City of Tucson							Phase II may be needed. Cost to be
		(Oasis/Jim Campbell)						\$0	determined.
	11706175A	City of Tucson	Former Greyhound, 2 S. 4th Av		04/09/04	No			
	11706162C	Union Pacific	330 N. Toole Ave	No		No			

					Phase I		Phase II		Estimated	
	- • •				completed		completed		Environmental	
ID#	Project	Parcel #		Address	Yes/No	Phase I - Date		Phase II Date	Costs	Cost Assumptions/ Notes
		11706562C	Union Pacific		Yes	11/10/06	No			
		11706081D	City of Tucson	396, 400, 410, 414 & 418 N. Toole	Yes	11/11/06	No			
G-9	Police Department TENTATIVE		City of Tucson						\$49,160	Additional Phase II work
		117200250	City of Tucson/Fuel Island	260 S. Stone	No		No			
G-10	Rialto Block/Broadway		Rialto/Biggers		110		110		\$0	Private property
0 10	Hallo Blook Broadway	11706179A	T tianto/ Diggoro	Former Trailways LUST Site	No		No		ψ υ	- mate property
		117061780			No		No			
		11706177A			No		No			
		11706177B		Rialto Theater	Yes	12/23/1997	No			
G-11	Ronstadt Transit Ctr		City of Tucson						\$60,120	Phase II and remediation
		11706097A	X		Yes	01/29/07	No			
		11706185A			Yes	1/29/2007	No			
G-12	Sixth Avenue & Toole		City of Tucson						\$39,800	Phase II
		11706081D		*Parcel is NW Train Depot			Yes	09/01/98		
		117060820		Parking Lot	Yes	3/14/2005	Yes			Pre-phase I completed in 2005
		117060830		Parking Lot	Yes	3/14/2005	Yes	05/05/97		Geophysical completed in 1997
		117060850		Parking Lot	Yes	3/14/2005	Yes	05/05/97		
		117060840		Parking Lot	Yes	3/14/2005	Yes	05/05/97		
	TCC Expansion		City of Tucson						\$470,640	Phase II and remediation
	(TCC AREA)	11720029A	City of Tucson		Yes	06/20/06	No			
Y-1	44 E Broadway II		Ron Schwabe						\$0	Private property
		117130410	44 Broadway Block LLC	18 & 20 E. Ochoa	No		No			
Y-2	Baccus Lot		Buck Baccus						\$0	Private property
		117130290	Lerdal LTD Partnership		No		No			
		117130250	Lerdal LTD Partnership	62, 64, 66, 68, 70, 72, 74, & 76 S Stone	S. No		No			
		117130300	Lerdal LTD Partnership		No		No			
		117130310	Lerdal LTD Partnership		No		No			
Y-3	Block 175		DDC						\$0	Private property
		11710089A			No		No			
Y-4	Fourth Ave./Brdwy		Powell/Heller						\$0	Private property
	,	117062010	Dorothy Powell	245 & 246 E. Broadway	No		No			
		117062050	Dorothy Powell	*	No		No			
		117062080	Dorothy Powell		No		No			
			Dorothy Powell		No		No			
		117062110	Dorothy Powell	231 E. 12th	No		No			
		117062120	Dorothy Powell	146, 148 & 150 S. 4th Ave	No		No			
	I-10 frontage @ Cushing - 22nd	-	Private development						\$265,800	Phase II and remediation on City- owned properties
		116200460	Private	418 S SENTINEL AV	No		No			
		116200470	Private	608 W MESA ST	No		No			
		116200540	Private	609 W MESA ST	No		No			

				Phase I completed	Phase II completed	Estimated Environmental	
D#	Project Parcel #	Owner - COT/Private	Addross	Yes/No	Phase I - Date Yes/No	Phase II Date Costs	Cost Assumptions/ Notes
<i>σ</i> π	11620055		Address	No	No		Cost Assumptions/ Notes
	11620056		406 S SENTINEL AV	No	No		
	11620057		440 S SENTINEL AV	No	No		
	11620058		none	No	No		
	11620065		617 W PEAK ST	No	No		
	11620066		500 S SENTINEL AV	No	No		
	11620067	0 Private	320 S SENTINEL AV	No	No		
	11620068	0 Private	615 W SIMPSON ST	No	No		
	11620069	0 Private	618 W SIMPSON ST	No	No		
	11620078	0 Private	337 S SENTINEL AV	No	No		
	11620079	0 Private	387 S SENTINEL AV	No	No		
	11620080	0 Private	421 S SENTINEL AV	No	No		
	11620081			No	No		
	11620082		425 S SENTINEL AV	No	No		
	11620083		435 S SENTINEL AV	No	No		
	11620084			No	No		
	11620085		none	No	No		
	11620086		443 S SENTINEL AV	No	No		
	11620087		none	No	No		
	11620088		none	No	No		
	11620089		406 S SENTINEL AV	No	No		
	11620090		473 S SENTINEL AV	No	No		
	11620091		none	No	No		
	11620140		331 S SENTINEL AV	No	No		
	11623019		712 W 18TH ST	No	No		
	11623020		714 W 18TH ST	No	No		
	11623021 11623022		708 W 18TH ST	No	No		
	11623022		704 W 18TH ST 718 W 18TH ST	No No	No No		
	11623023		713 W 18TH ST	No	No		
	11623024		725 W 18TH ST	No	No		
	11623025		720 W GREEN ST	No	No		
	11623020		701 W 18TH ST	No	No		
	11623027		704 W GREEN ST	No	No		
	11623023		717 W GREEN ST	No	No		
	11623059		949 S FREEWAY	No	No		
	11623075		747 S FREEWAY	No	No		
	11719060		No address available	Yes	10/17/06 No		Former Flint Oil - EPA Grant funds
	11714356A	CITY	No address available	Yes	10/17/06 No		Former Flint Oil - EPA Grant funds
	11620045B	Private		No	No		
	11623058A	Private	705 W GREEN ST	No	No		
	11623058B	Private		No	No		
	11623144A	Private	1007 S FREEWAY	No	No		

11623154C Private

				Phase I		Phase II		Estimated	
				completed		completed		Environmental	
ID# Project	Parcel #	Owner - COT/Private	Address	Yes/No	Phase I - Date		Phase II Date	Costs	Cost Assumptions/ Notes
	-			-					•
				Yes	06/01/00	Vaa	10/25/02		
				res	06/01/00	Yes	10/25/02		
	110001510	D I							
	11623154D 11623155B	Private Private	1125 S I10 WB FRONTAGE RD	-					
	110231335	Privale	1125 S 110 WB FRONTAGE RD	-					
	11623555B	Private							
	11623155E	Private	601 W SIMPSON ST	Yes	12/01/97	Yes	06/05/98		
	11623555C	Private		No		No			
	11623555D	Private		No		No			
	117143570	CITY	510 W 18TH ST	Yes	04/15/04	No			Tucson Water Plant 1
	11708164B	CITY	501 W 18TH ST	_					
	11708165B	CITY		_					
	11708166B	CITY							
	11708169A	CITY	910 S OSBORNE AV	Yes	04/15/04	No			
	11708170A	CITY		_					
	11708171A	CITY		-					
	11708172A	CITY	500 M/ 00711 07		10/01/07		00/05/00		
	11709082B	CITY	500 W 20TH ST	Yes	12/01/97	Yes	06/05/98		Vacant
	11709083A 11709092A	CITY	555 W 20TH ST	Yes	12/01/97 12/01/97	Yes	06/05/98 06/05/98		Vacant Vacant
	11719059A	CITY		Yes	12/01/97	Yes	06/05/98		vacant
	11623155D	Private CITY		Yes	12/01/97	Yes	06/05/98		Vacant
	11023133D	Alan Norville/Eric		163	12/01/31	163	00/03/30		Vacant
Y-6 Norville Exhibition Ctr		Hutchens						\$0	Private property
	11620023J			No		No		* *	
	11620023H			No		No			
	11713061D			No		No			
	11713061P			No		No			
	11713061N			No		No			
	117200300			No		No			
	11713069D			No		No			
Y-7 Plaza San Agustin		Private development						\$0	Private property
	117131620	De La Warr Investment	141 S. Stone						
				No		No			
	117131610	De La Warr Investment	23 E. Ochoa	N.		NL			
		Colb		No		No			
	117131630	De La Warr Investment		No		No			
		Corp		No		No			
	117131640	De La Warr Investment Corp		No		No			
		De La Warr Investment		INU		INU			
	117131650	Corp		No		No			
		De La Warr Investment		INU		INU			
	117131660	Corp		No		No			
		De La Warr Investment		no		no			
	117131680	Corp		No		No			
L									

ID# Project	Parcel #	Owner - COT/Private	Address	Phase I completed Yes/No		nase II ompleted es/No		Estimated Environmental Costs	Cost Assumptions/ Notes
	117131660	De La Warr Investment		-					· · · · · · · · · · · · · · · · · · ·
	117131000	Corp		No		No			
	117131670	De La Warr Investment		No		No			
		Corp De La Warr Investment		INO		INO			
	117131760	Corp		No		No			
	447404750	De La Warr Investment							
	117131750	Corp		No		No			
	117131740	De La Warr Investment							
		Corp De La Warr Investment		No		No			
	117131770	Corp		No		No			
		De La Warr Investment		110		NO			
	117131730	Corp		No		No			
	117131780	De La Warr Investment							
		Corp		No		No			
	117131790	Bring Funeral Home		No		No			
	117131800 117131720	Bring Funeral Home Bring Funeral Home	236 S. Scott	No No		No No			
Y-8 Pueblo Garage	117131720	Buck Baccus	230 3. 3001	INO		INO		60	Private property
	117120080	Duck Ducous		No		No			· mate property
	11712007A			No		No			
Y-9 Steinfeld West Triangle		Private development					\$	\$10,000	Phase I's for ADOT properties the City may potentially purchase
	117100590	Madsen James E. and Deborah D. JR/RS		No		No			
	117100550	Madsen James E. and Deborah D. JR/RS		No		No			
	117100540 117100390	State of Arizona State of Arizona		No No		No No			
	117100530		302, 402 & 406 N. Church Ave.	No	09/26/99	No			
	117100560	State of Arizona	302, 402 & 406 N. Church Ave.	Yes	09/26/99	No			
	117100520	State of Arizona	302, 402 & 406 N. Church Ave.	Yes	09/27/99	No			
	11710049B	State of Arizona	302, 402 & 406 N. Church Ave.	Yes	09/28/99	No			
	11710041A	State of Arizona	302, 402 & 406 N. Church Ave.	Yes	09/29/99	No			
Y-10 Warehouse District South of RR		City of Tucson/private development					9	60	
	117160050			No		No			
	117160060			Yes	11/10/2006	Yes	01/01/00		
	117160070			Yes	11/10/2006	Yes	01/01/00		
B-1 I-10 frontage @ Congress, se							5	379,600	Phase II and remediation on City- owned parcels
	116201350			Yes	multiple reports	Yes	multiple reports		
B-2 Inn Suites		Tucson St. Mary's Suite						60	Private property
	11619175B	Tucson St. Mary's Suite	475 N. Granada Ave.	No		No			

					Phase I		Phase II		Estimated	
ID#	Project	Parcel #	Owner - COT/Private	Address	completed Yes/No	Phase I - Date	completed Yes/No	Phase II Date	Environmental Costs	Cost Assumptions/ Notes
B-3	Chase Bank lot		Private development						\$0	Private property
		11712091D			No		No		ψU	
		11712031D			No		No			
		117120950			No		No			
B-4	DDC Council lot		Private development						\$0	
		11710072A			Yes	6/5/2000	No		φU	Private property
		11710072A			Yes	6/5/2000	No			
		11710069B			Yes	6/5/2000	No			
		117100670			Yes	6/5/2000	No			
		117100680			Yes	6/5/2000	No			
B-5	Library Plaza South	111100000	City of Tucson			0/0/2000			\$5,000	Phase I
		117110720			No		No			
		117110710			No		No			
		11711069C			No		No			
B-6	Library Plaza West		Private development						\$5,000	Phase I
		11711064C		*Section for library only	No		No		43,000	F 11036 1
B-7	Mercado extension		Private development						\$0	Private property
		11618254B			No		No			
		11618254C			No		No			
		116182530			No		No			
		116182520			No		No			
		116182510			No		No			
		11618250A		1002 W. Congress	No		No			
		11618250B		1002 W. Congress	No		No			
		116182270			No		No			
		116182260			No		No			
		11618224A			No		No			
		116182230			No		No			
		116182220			No		No			
		116182210			No		No			
		116181940			No		No			
		116181960 116183200			No		No			
		116183200			No No		No No			
		116213020			No		No			
		11620010B			No		No			
		11620010D			No		No			
		116191290			No		No			
		116191300			No		No			
		11619131A			No		No			
		116210270			No		No			
		116210260			No		No			
		116210250			No		No			
		116210240			No		No			
		116210230			No		No			

					Phase I	Phase II		Estimated	
					completed	completed		Environmental	
ID#	Project	Parcel #	Owner - COT/Private	Address	Yes/No	Phase I - Date Yes/No	Phase II Date	Costs	Cost Assumptions/ Notes
		116210220			No	No			
		116210020			No	No			
		116210010			No	No			
		116213040			No	No			
B-8	Millstone Site		Joe Millstone					\$0	Private property
		11619153A	First Family Co. Ltd.	460 N. Freeway	No	No			
		11619154C	First Family Co. Ltd.	450 N. Freeway	No	No			
		116193780	City of Tucson		No	No			
B-9	Pima Co pkg lot @ B'way		Pima County					\$0	Private property
		117150060			No	No			
		117150080			No	No			
B-10	Reliance Tower II pad		HUB Properties					\$0	Private property
		11712099A			No	No			
B-11	TCC 1,2,3		City of Tucson/Private development						
								\$0	See O-2 for cost
	(TCC AREA)	117200260	City of Tucson		Yes	06/20/06 No			
B-12	Theresa Lee site		City of Tucson					\$20,000	Phase I and II
		11620027A			No	No			
	Warehouse District North of RR		Private development					\$0	Private property
		117050650			No	Yes	03/15/00		ADOT
		117050640			No	No			Rest of parcels are privately owned
		117051340			No	No			
		117160020			No	No			
		11716001A			No	No			
		11705069B			No	No			
		11705069A			No	No			
		11705074A			No	No			
		11705080B			No	No			
		11705080C			No	No			
ΤΟΤΑ	LS							\$22,186,920	

OVERVIEW

The City of Tucson Parks and Recreation Department has responsibility for developing and maintaining all public parks and plazas in the downtown area. Green space is an essential element of urban revitalization and is critical to the success of Rio Nuevo. Green space in the form of parks, plazas, and pedestrian-oriented promenades plays a vital role in creating a quality place and an environment people want to experience.

The inventory listed below is keyed to the accompanying map and provides an overview of existing green spaces, green spaces currently planned, and opportunities for new green space within the greater downtown area. The focus of these projects is on furthering the goals established for Rio Nuevo including:

- Creating life beyond the weekday hours of 8 a.m. to 5 p.m. for new residents craving an exciting urban lifestyle.
- Creating places for both visitors and residents to enjoy a variety of cultural, artistic, retail, and entertainment venues.
- Creating linkages within the downtown built environment for people to use as they experience the rich history and traditions of Tucson.

The Parks and Recreation Department has a long-range plan for downtown and its surrounding context that reflects a system of destinations and trail connects for bike and pedestrian use. The plan encompasses more than just the Rio Nuevo district. The enclosed cost estimate for the Department's Downtown Green Infrastructure Plan provides subtotaled project costs for those projects within the study area (or "district"), as well as a subtotal of those in the areas surrounding it. Asterisks (*) denote those projects that are located within the study area.

INVENTORY OF CURRENT FACILITIES

- E1 Iron Horse Park Located at the mouth and golden eyes end of Rattlesnake Bridge, this small park has a ramada, picnic tables, art work and a playground. The trail that passes through the Rattlesnake Bridge will be connected to the south with the construction of the Basket Bridge. When the Downtown Links Project and 4th Avenue Underpass are completed, the access to and awareness of this small park will increase.
- E2 Broadway Boulevard Greenway
- E3 Aviation Bikeway
- **E4** <u>Barrio San Antonio</u> This is a new natural resource "pocket park", located at Santa Rita and 14th Avenue It will be accessible to the Cherry Fields project and Arroyo Chico Trail. It has a group barbecue, shade cloth ramada, small neighborhood meeting and performance area, with rocks for seats. It also has a sand playground, and a special neighbor who supplies sand toys.
- **E5** <u>Tucson High School</u> The Tucson High School Feasibility Plan, which features exploration of activity space and renovation and parking needs at this 100-year old site, includes a suggestion for creating/scheduling spaces that can be used by the general public. The plan

is supported by a community/school design team and the area neighborhood associations. How the students travel through spaces downtown and use transportation sites is important in planning public spaces and linkages, as is the partnership with the school and district for usable spaces.

- **E6** <u>Miles Elementary School</u> A new partnership with the school opens the school grounds to the public when school is not in session. The playground includes a backstop, a walking path, playground features, picnic tables, and turf.
- **E7** <u>Highland Bike Route</u> A bike route that connects the University of Arizona and the Arroyo Chico detention basin project in Barrio San Antonio.
- **E8** <u>Santa Rita Park</u> Located at 22nd Street and 4th Ave, this park has two newly lighted softball fields, a concession stand, lit baseball field, basketball court, a playground, and a "flat water" pool (originally constructed in 1936, renovated in the 1980s). A much-anticipated skatepark is planned. It also has a continuing homeless population. The pool may be "lost" when 22nd Street is widened, which may provide an opportunity for a new style pool. The area along the east side of the park has been suggested for some community housing.
- **E9** <u>Mirasol Park</u> Located south of 22nd Street, 1100 E. Silverlake. The park has a lit softball field and playground, and a basketball court.
- E10 <u>Silverlake Park</u> Although relatively new, Silverlake Park (at Kino and 36th Street) has developed into a much used and loved park. It houses the four lit "Challenger Little League" fields, used for children with disabilities, as well as other leagues, two unlit soccer fields, a playground, picnic areas, a path around the park, a community garden, the American Israel Friendship path, and a Recreation Center with class spaces, weight room, child care and senior space. The park has a new, zero depth entry pool, spray toys, competition lanes and a slide. The park hosts a public library, and will soon have additional turf, with the addition of space from Hollinger School. This park will link with downtown when the El Paso Greenway is developed.
- E11 <u>Herrera Quiroz Park</u> Located at St. Mary's Rd. and I-10. Oury Center is a small, historic center (1919), housing recreation programming for children and seniors. The park has two softball fields, a playground, and a pool. The recent Master Plan of the site calls for a future center and improved grounds. A covered basketball court will be built within the year.
- **E12** <u>Carrillo Pool</u> Located at Carrillo Elementary School and owned and operated by the City of Tucson Parks and Recreation Department.
- **E13** <u>EI Tiradito and La Pilita Neighborhood Center</u> The "wishing shrine" site and historic building next door. La Pilita is leased and run by a non-profit that provides good programming for elementary students regarding Tucson's history and the environment.
- **E14** <u>Ormsby Park</u> This small park located one block south of 22nd Street near the Santa Cruz River, currently houses a small center and softball field. This area is a critical opportunity area, with plans to be expanded to include equestrian accommodations, and accessibility to the river and to the Heritage Park downstream.
- **E15** <u>Cesar Chavez Park</u> A small space located at the "Five Points" area, along 6th Avenue, containing small seating area.

- **E16** <u>Santa Rosa Park</u> Santa Rosa Park and Santa Rosa Center, childcare, and Library complex. Located on 10th Avenue near 22nd Street, the facilities include a medium-size recreation center, gym, weight room, classroom and meeting space. It also houses/hosts non-profits agencies on-site or across the street. The park is diagonal from the center, and has a ramada, playground, ball field, and basketball court (soon to be lighted).
- **E17** <u>Children's Museum Green Space</u> Located across the street from Armory Park & Center. The Museum, an active non-profit, offers children's science, learning, and recreational programs. (If the Children's Museum re-locates to Origins Heritage Park, a teen site at this location would provide much needed active space.)
- * E18 <u>Armory Park</u> One of the oldest parks in Tucson, Armory is the home of an increasing number of festivals and events, and "ending festival site" for holiday and St. Patrick's Day Parades. The Center houses a comprehensive senior program, and is home of the teen program, "AIR." It is on historic tour; it is the former site of Camp Lowell and the old Armory, Tucson's first "convention center" of activity after Arizona became a state in 1912.
 - **E19** <u>Performing Arts Center</u> This is the old All Saints Church, and is now a City-owned property. It is on the historical register, and was used as an emerging artist's performance space until a crack in one of the interior arches was discovered. Currently closed, the Center will be repaired using funds approved from the most recent Pima County bond program. Work can begin after an intergovernmental agreement between the City and the County is completed. An estimate for repairs is currently being performed. It is a good cornerstone for the Scott Avenue Art District area plan.
 - **E20** <u>Jacome Plaza</u> Located in front of Joel Valdez Main Library. The plaza space is a site for many special festivals, displays, and press announcements. It needs a playground for children, and re-design of hill and performance space. Construction of a high-rise building on the site, which has been publicly discussed, would eliminate downtown green space and an active festival area.
 - **E21** <u>EI Presidio Plaza at City Hall</u> Between City Hall and the historic County Courthouse, the Plaza is home to many large-scale special events, such as the annual Tucson Meet Yourself Festival, and a portion of the Family Arts Festival. Repairs are needed, as well as a re-design of the space. The Plaza is within the historic grounds of the old Presidio. An opportunity exists here to organize spaces leading from the TCC, over the bridge at Broadway, through Presidio Plaza, the County Courthouse, and to Jacome Plaza, for very large festivals. There also exists an opportunity to link the Plaza to the East Civic Plaza.</u>
 - **E22** <u>Sunset Park</u> The small area surrounding City Hall is a good meditative/meeting place. Low water use native vegetation is used throughout the Park. A portion of a re-created Presidio wall will be installed late summer 2007 to mark the Old Presidio boundaries. Future plans to commemorate the Tucson Meteorite/Blacksmith shop in this area should be considered.
 - **E23** <u>EI Presidio San Agustin del Tucson</u> This re-creation of the northeast tower of the Spanish Presidio is currently under construction, and due to open in May 2007. Included on the grounds are a Torreon (tower), a munitions building, soldiers quarters, and a commissary. A pit house, one of several on location, will be part of the interpretation of the site. A typical Mexican era plaza and row houses and zaguan is also part of the property. The row

houses will include a meeting space, interpretation of the artifacts found on site, and a small gift shop.

E24 <u>Veinte de Agosto (Pancho Villa) Park</u> – This Park is located between Broadway Boulevard and Congress Street, west of Church Avenue. Identified as the "gateway" between Congress Street, and the TCC/ Arena area, the site has a fountain feature, the infamous statue of Pancho Villa (a gift from Mexico), and the foundation stones for the original St. Agustin cathedral. This park was identified as an opportunity to link Congress Street with the East Civic Plaza, and to include expansion onto Church Avenue, where kiosks could be built to oversee the area, provide information (visitors bureau), and concessions for the area (see unadopted Congress Street Master Plan). It is one of two suggested sites for a carousel that would feature desert animals, and an interactive water feature. This is also a good location for a skate park. Teens and younger children should be included in planning downtown development and identifying a variety of gathering and play spaces.

To the north of the park along Congress Street are the Pima County government buildings. The south landscaped space could be re-designed to feature tables and umbrellas for meeting or lunch time use, bringing more people to the outside spaces to build a better "sense of place."

- **E25** <u>La Placita, The Gazebo</u> A small remnant of former site of Mesilla Plaza, this includes a historic gazebo, located near the Hotel Arizona and La Placita buildings. The gazebo is a popular site for weddings. This can be reconnected to Veinte de Agosto.
- **E26** <u>Adele Smith Sculptural Park</u> On Main Avenue, between Congress Street and St. Mary's Road, this is a small contemplative space with sculptures.
- **E27** <u>University of Arizona</u> An important node in the City of Tucson Parks and Recreation Department's strategy for connecting areas of interest and destinations with linkages like trails, greenways, bikeways and pedestrian corridors.
- **E28** <u>Estevan Park</u> Originally a "tent city", this old park contains the signature mesquite tree for the City Parks and Recreation Department logo. The park is at the end point for the Greenway, and a connection to it should be developed. The park contains a center, currently on loan to Tucson Urban League, who contracts it out for daycare use. Also at this site is the "home" for the Rugby League. A large field is the main feature. The park had a pool at one time, which has since been demolished. The park also has a basketball court. It is located across the street from Dunbar Spring.
- E29 Mel, Tucson's heritage tree
- **E30** <u>Menlo Park</u> Located on Granada, across from the Ward 1 Office. It has playgrounds, fields, basketball court, and pool with slide. It is due an upgrade.
- **E31** <u>Santa Cruz River and DeAnza Trail</u> The river path, developed on one or both sides of the river with accessibility for pedestrians and bicycles. There is a standard for trail development along the river, and riverside owners are encouraged to design features to make the pathway more appealing. In the downtown area, two identified Army Corps of Engineer projects are planned (not funded), including the Paseo de las Iglesias portion, and the Rio Medio portion. Also identified along the river is the Anza Trail, which includes historic commemorative plaques at points along the river. The river portion south of 22nd Street to Congress Street will be along the Sonoran Desert Natural Resource Park, the

Heritage Park, including Mission Gardens, the Convento, Chapel, Carrillo House, and festival area. Museums, the Mercado district, and 14 acres of land to be developed along Congress Street are included in this river area. It is critical to the "view shed" of the downtown area.

- **E32** "<u>A" Mountain</u> Originally named "Sentinel" because it was used by the Spanish and other early settlers as a "lookout. The peak includes a white boulder "A", built in 1916, and is now commonly referred to as "A" Mountain. For many years students burned the "A" the night before University of Arizona Homecoming and then whitewashed the "A" the next morning. The peak is archaeologically and historically significant, and it remains a citywide lookout point. Warner's old mill site, located on the northeast corner of the mountain at Mission Road and Mission Lane, should be purchased and developed as part of the area's history.
- **E33** <u>Leon Property</u> Located behind the Manning House, this historic site, unexcavated, is on the direct path of the Greenway, and will be important to interpret. There is an opportunity to acquire land to the north of the Manning House, which would be used to re-establish the once-planned Archaeology Park.
- **E34** <u>Garden of Gethsemane</u> This garden, located at Congress Street and Bonita Avenue, includes sculptural works of Felix Lucero in an enclosed park setting. It is the setting for many weddings and "quinceañeras."
- **E35** <u>Bonita Park</u> This park is located north of the Garden of Gethsemane, along the riverwalk. It has a playground and restroom, picnic tables and small turf areas. A small tot playground will be built north of the park within the year.
- **E36** <u>DeAnza Park</u> Located at Speedway Boulevard. and Stone Avenue, it is a "gateway" to downtown from the north. DeAnza has a playground, lit sand volleyball courts, restrooms, a playground, and open space. Some renovation is needed. It has an historic "A "Mountain basalt wall on its west side.
- **E37** <u>Catalina Park</u> Located on 4th Avenue, south of Speedway Boulevard. It has a playground, a historic registered ramada, and a wading pool. A splash park has been proposed, but is unfunded.

PLANNED IMPROVEMENTS

- P1 <u>Arroyo Chico</u> The Arroyo Chico Wash provides a planned urban greenway connecting downtown with Reid Park and many other destinations. The greenway portion between the Rattlesnake Bridge and Campbell Avenue has been designed and is in the process of being funded by the Army Corps of Engineers. One million dollars from Pima County 2004 bonds is available toward development of the greenway between Campbell Avenue and Tucson Boulevard. The City of Tucson Parks Department is pursuing other funding sources to close the funding gap for the greenway between Campbell Avenue and Reid Park.
- **P2** <u>Oury/Davis Connection</u> Herrera Quiroz Park and the neighborhood center located there (Oury Center) will have a pedestrian connection between the park and the nearby Davis Bilingual Magnet School. The pedestrian connection will pass through the El Paso

Greenway and the Community Services Department's SMART housing project east of the park.

- * P3 <u>El Paso Greenway</u> A major connection and structural element in the downtown green infrastructure plan, the El Paso Greenway is in the planning process, which will identify funding sources. The Greenway is ultimately planned to span from the Kino Boulevard/36th Street area, through South Tucson along Barrios' Santa Rosa, Viejo, Historico, by Fire Station One (under design), through the new arena area and El Presidio neighborhood, along the east side of I-10, across St. Mary's Rd., through Barrio Anita and ending near Estevan Park. It will be a connector path with some amenities along the way. It is being planned to emphasize walking and cycling. The old railroad roundhouse and the adjacent detention basin are located along the greenway and the area is a possibility for a park node.
 - P4 <u>Mendoza Park</u> A small neighborhood park in memory of two Barrio Viejo children killed in a traffic accident, it contains a shrine to the victims and a winding path with plants and shade. It will be located at Convent Avenue and 18th Street
- * **P5** <u>Depot Plaza</u> A planned urban plaza between the Train Depot and Club Congress.
- * **P6** <u>DeAnza Trail</u> A recreation of the historic Juan Batista DeAnza trail, on which the Spanish conquistadors rode between Mexico City and San Francisco, California. Pima County is implementing the trail in segments.
- * **P7** <u>Heritage Park</u> A large Rio Nuevo project that celebrates the origins of Tucson as an organized settlement. Heritage Park, west of the Santa Cruz, includes a reconstructed Convento, chapel and Mission Gardens. Other planned amenities include an archaeological area, Origins Center, museums and festival space. The project is in the design phase.
- * **P8** <u>Sonoran Desert Park</u> A planned natural resource park at the base of "A" Mountain. The site is a former landfill. This Brownfield project will include trails, a connection to the DeAnza Trail and the Heritage Park, native plants, water harvesting and interpretation of the Sonoran Desert along the Santa Cruz River.

New Park Considerations

- * **O1** <u>Gateway Park</u> This park would be located at the confluence of Iron Horse Park, the 4th Avenue underpass and the Arroyo Chico/Aviation urban greenway network. This would provide a green gateway into downtown.
 - **O2** <u>Railroad Wash Greenway</u> A trail connection to complement the planned Arroyo Chico Urban Greenway and the existing Aviation bikeway.
 - **O3** <u>High School Wash Greenway</u> A pedestrian/bike connection between Tucson High School, the University of Arizona and the Arroyo Chico Urban Greenway. This is an important link to complete a network of urban trails.

- * O4 <u>New park: El Paso Greenway meets the Arroyo Chico Greenway</u> A parcel along the El Paso Greenway just south of St. Mary's provides an opportunity for a green space node or park to complement the intersection of the greenway with the northern section of the Arroyo Chico Urban Greenway. The Arts District Walk connects to this proposed park via the Arroyo Chico Urban Greenway near St. Mary's Road/6th Street.
 - **O5** <u>Partnership with Davis Elementary</u> The City of Tucson Parks and Recreation Department enters into partnerships with schools when possible to create public parks on school grounds for use after school hours. Davis Elementary School is a potential partner.
- * O6 <u>Arts District Walk</u> A pedestrian corridor from the proposed gateway park at the 4th Avenue Underpass to the northern end of the Arts District provides an opportunity to link the Arts District with a larger network of pedestrian/bike trails. A complete network of trails brings together downtown amenities, the University of Arizona, Reid Park, 4th Avenue, the Arroyo Chico Urban Greenway, the Aviation bikeway and many neighborhoods.
 - **O7** <u>Arroyo Chico North Trail</u> A northern segment of the Arroyo Chico Urban Greenway that runs between the Arts District and the El Paso Greenway at St. Mary's Road.
 - **O8** <u>New park: Round House and adjacent detention basin</u> The historic railroad round house and an adjacent detention basis sit along the El Paso Greenway two blocks south of 22nd Street. These parcels are an opportunity for a park that could provide historic interpretation as well as active recreation in downtown.
 - **O9** <u>New Pedestrian/Bike Connection Between Santa Rosa Park and New Park at Osborne and 18th Street</u> A pedestrian/bike connection to join Santa Rosa Park with a network of community spaces and parks along Osborne Avenue
 - **O10** <u>Partnership with Carrillo School</u> Carrillo School is a potential partner for the City of Tucson Parks and Recreation Department to create a joint use park on the school campus.
 - **O11** <u>New Park: Tucson Water Property</u> A parcel on 18th Street and Osborne along the El Paso Greenway is an opportunity for a new park. It would complement Santa Rosa Park, Carrillo Pool, El Tiradito, La Pilita Neighborhood Center. These destinations would be joined by a pedestrian/bike trail along Osborne Avenue
 - **O12** Osborne Avenue Pedestrian/Bike Connection A pedestrian/bike connection along Osborne Avenue would create a well connected network of destinations including Santa Rosa Park, Carrillo Pool, El Tiradito, La Pilita Neighborhood Center and the proposed new park at Osborne and 18th Street This local network of community spaces would be connected to the larger network along the El Paso Greenway.
- * O13 <u>New Park: adjacent to Fire Station 1</u> Fire Station No. 1 is projected to fill the northern part of the parcel leaving room for a new park at the southern end.
 - **O14** <u>Pedestrian/Bike Underpass</u> A pedestrian/bike underpass that will connect the El Paso Greenway to the Santa Cruz River Park trail system.
 - O15 Ormsby Greenway to the Santa Cruz River A greenway to connect Ormsby Park to the Santa Cruz River so that the park may be used for equestrian staging to support festivals

at the Heritage Park. The connection also complements a larger network of trails and green spaces west of I-10.

- **O16** <u>Ormsby Park Expansion</u> An expanded Ormsby Park would provide an opportunity to provide an equestrian amenity to complement the Heritage Park. Horses could be staged at Ormsby Park and transferred to the Heritage Park via the Santa Cruz River. The park expansion would also create a significant greenspace in the downtown region. A pedestrian/bike connection between the park, the Santa Cruz River, the Heritage Park and the El Paso Greenway would support an expanded network between the west and east side of I-10.
- * **O17** <u>Cushing Street Pedestrian/Bike Connection</u> A connection between the Osborne Avenue amenities and the Children's Museum and Armory Park.
- * **O18** <u>Armory Park/M.L.K. Housing Pedestrian Connection</u> A landscaped pedestrian connection between Armory Park and its senior center to the Martin Luther King housing.
 - **O19** <u>Recreation on Rooftop of Pennington Street Garage</u> Finding green space and active recreation opportunities in downtown is a challenge and requires taking advantage of opportunities not normally pursued. The roof of the Pennington Street Garage is an opportunity for tennis courts, basketball courts or other active recreation.
- * O20 <u>Armory Park/Arizona Avenue Arcade</u> A pedestrian arcade along Arizona Avenue
 - **O21** <u>New Park: at Surface Parking across from El Charro</u> A surface parking lot at the northeast corner of Church and Council provides an opportunity for a large greenspace in downtown. It is one of the only opportunities for a park to support downtown activities, musical performances and festivals.
- * O22 <u>Viente de Agosto Park Expansion</u> An expansion of Viente de Agosto Park that connects the park to La Placita would create a seamless connection from the Tucson Convention Center to El Presidio Plaza. The area could become a significant pedestrian connection and festival space.
- * **O23** <u>El Presidio San Agustin Historic Walk with Trailhead</u> The historic location of the El Presidio wall provides an opportunity for a trailhead and commemorative walk.
- * **O24** <u>Warren Mill Interpretation</u> The historic Warren Mill site is privately held and provides an opportunity for a publicly interpreted site.
- * O25 <u>Wildlife Connection Between A Mountain/Tucson Mountain Park and the Santa Cruz River</u>

 The Sonoran Desert Park is one of the last places to connect wildlife areas like Tucson Mountain Park and "A" Mountain to the Santa Cruz River.
 - **O26** <u>Ormbsy Park/Sonoran Desert Park Trail Loop</u> A loop trail to connect the Sonoran Desert Park and Ormsby Park.
 - **O27** <u>Pedestrian/Bike Crossing at I-10</u> A pedestrian/bike crossing to connect the community spaces on the west and east sides of I-10.

- * **O28** <u>Pedestrian/bike crossing at 18th Street and I-10</u> A pedestrian/bike crossing at 18th Street to connect the community spaces on the west and east sides of I-10.
 - **O29** <u>New Park: Commerce Loop</u> A proposed new park to support active recreation.
 - O30 <u>Pedestrian/Bike Connection Between New Park at Commerce Loop and the Santa Cruz</u> <u>River</u> - A connection between the proposed park at Commerce Loop and the Santa Cruz River Park.
 - **O31** <u>Dunbar Spring Pedestrian/Bike Connection</u> A pedestrian and bike link between the Dunbar Spring Neighborhood and the Arts District Walk. The intersection of 9th Avenue and 6th Street is a popular spot for bicycles to access downtown.
 - **O32** <u>Railroad Greenway</u> An urban greenway along the existing railroad line to connect the Arts District with Dunbar Spring neighborhood and the El Paso Greenway.

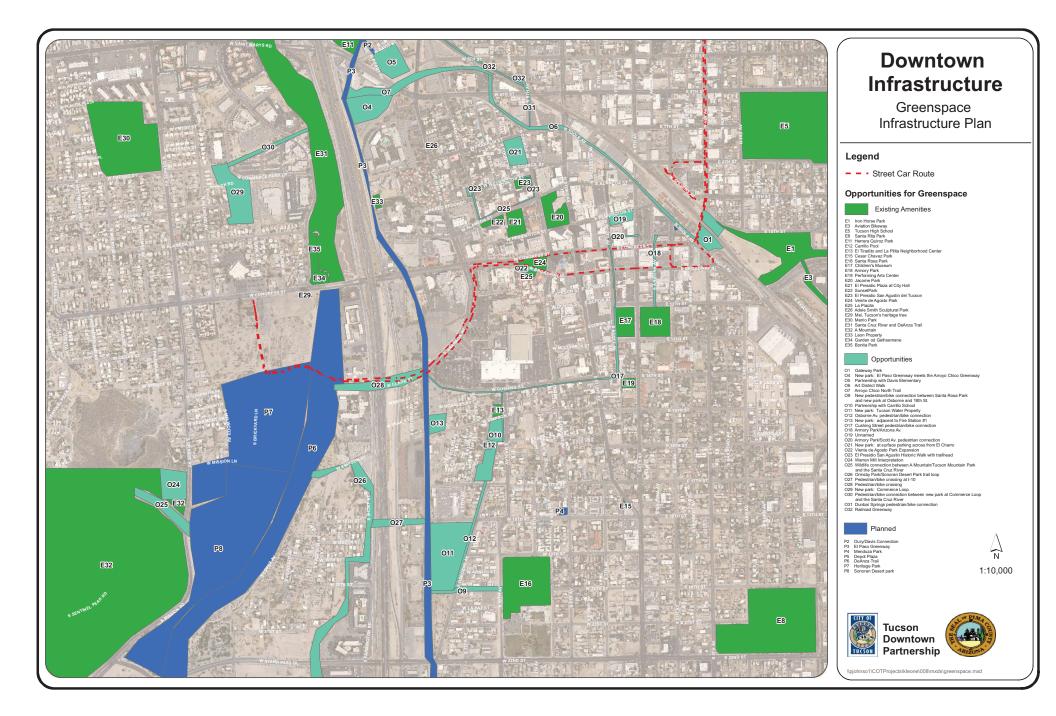
COST & FUNDING

Costs for projects within the study area are expected to total \$73,900,000. The majority of the funding will come from bonds, HURF, RTA, City of Tucson Parks and Recreation and private development. An additional \$7,800,000 will be requested from TIF funding.

Cost Estimate Downtown Green Infrastructure Plan City of Tucson Parks and Recreation Department April 24, 2007

Inside Rio Nuevo District?	Label (see map)	Project	Total Cost of Project	Amount of Current Funding	Source of Current Funding	Unfunded	TIF Request	Potential Funding Sources	Project Start (0-18 mo.s), (19-36 mo.s), (3-5 years), (5+ years)
у	P3	El Paso Greenway	\$5,000,000	\$600,000		\$4,400,000	\$1,000,000	R.T.A.	0-18 mo.s
					development, Rio				
у	P5	Depot Plaza	\$500,000		Nuevo	\$0	\$0		19-36 mo.s
у	P6	deAnza Trail	\$3,000,000	\$0		\$3,000,000		Pima County bonds 2008	19-36 mo.s
у	P7	Heritage Park	to be determined	to cover cost	Rio Nuevo	\$0	\$0		0-18 mo.s
у	P8	Sonoran Desert Park	\$20,000,000		none	\$20,000,000		Pima County bonds	0-18 mo.s
у	01	Gateway Park	\$1,300,000	\$0	none	\$1,300,000	\$0	developer funded	19-36 mo.s
у	04	New Park at El Paso/Arroyo Chico Greenway	\$1,500,000	\$0	none	\$1,500,000	\$0	developer funded	19-36 mo.s
у	06	Art District Walk	\$5,000,000		none	\$5,000,000		developer funded; included in another TIF request	3-5 years
у	013	new park at Fire Station 1	tbd	to cover cost	Fire Station 1 project	\$0	\$0		0-18 mo.s
у	017	Cushing St. pedestrian/bike connection Armory Park/Scott Ave.	\$3,000,000	0	none	\$3,000,000	\$0	included in antoher TIF request	3-5 years
v	020	pedestrian/bike connection	\$800.000	¢0	none	\$800.000		Rio Nuevo, bonds, developer funded	19-36 mo.s
y v	020	Arizona Avenue Arcade	\$2,000,000		none	\$2,000,000	¢2,000,000	covered in another TIF request; HURF	3-5 years
у	1018	Viente de Agosto Park	\$2,000,000	φU	none	\$2,000,000	\$2,000,000		5-5 years
V	022	expansion	\$20,000,000	02	none	\$20,000,000	\$1,000,000	covered in ParkWise TIF request; bonds, HURF	19-36 mo s
y v	022	El Presidio walk	\$800.000		none	\$800,000		Presidio Trust, HURF	3-5 years
y	024	Warren Mill site	\$3.000.000		none	\$3,000,000		2008 County bonds, R.T.A.	3-5 years
<u>,</u>	021	wildlife/pedestrian connection	+-,,			+-,,			
у	025	at A Mt. pedestrian/bike crossing at	\$5,000,000	\$0	none	\$5,000,000	\$0	2008 Pima County bonds, R.T.A.	3-5 years
v	028	Clark St.	tbd	to cover cost	Rio Nuevo	\$0	\$0		0-18 mo.s
y V	E18	Armory Park Expansion	\$3.000.000		none	\$3.000.000		Rio Nuevo	19-36 mo.s
<u>y</u>		subtotal for sites inside	\$0,000,000	φ.		\$0,000,000	\$0,000,000		
		district	\$73,900,000			\$72,800,000	\$7,800,000		
n	P1	Arroyo Chico Urban Greenway	\$6,000,000	\$1,450,000	2004 County bonds (\$1 million), impact fees (\$450,000)	\$4,450,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0-18 mo.s
n	07	Arroyo Chico West Greenway	\$750,000	\$0	none	\$750,000		Rio Nuevo, bonds, developer funded, HURF	19-36 mo.s
n	P2	Oury Center/Davis Elementary Connection	\$300,000	\$0	none	\$300,000		developer funded through SMART Housing project	19-36 mo.s
					\$205,000 Tucson B2B \$15,000 County Neighborhood				
n	P4	Mendoza Park	\$220,000	1	Reinvestment	\$0			0-18 mo.s
n	02	Railroad Wash Greenway	\$1,500,000	\$0	none	\$1,500,000		bonds, HURF	3-5 years
n	03	High School Wash Greenway	\$2,000,000	\$0	none	\$2,000,000		bonds, HURF	3-5 years
n	05	Partnership with Davis Elementary	\$1,000,000	\$0	none	\$1,000,000		bonds, Pima County Neighborhood Reinvestment, Community Services CDBG	19-36 mo.s
n	08	New Park at Round House and detention basin	\$1,500,000	\$0	none	\$1,500,000		bonds, Pima County Neighborhood Reinvestment, impact fees, Community Services CDBG, Back to Basics	3-5 years

						bonds, Pima County Neighborhood	
		Pedestrian/bike connection				Reinvestment, Community Services CDBG,	
n	09	along 20th St.	\$500,000	\$0 none	\$500,000	Back to Basics	3-5 years
						bonds, Pima County Neighborhood	
						Reinvestment, Community Services CDBG,	
n	010	Carrillo School Partnership	\$1.000.000	\$0 none	\$1.000.000	Back to Basics	19-36 mo.s
			\$1,000,000	¢onone	\$1,000,000	bonds, Pima County Neighborhood	10 00 110.0
		new park at 18th St. and				Reinvestment, Community Services CDBG,	
n	011	Osborne Ave.	\$1,300,000	\$0 none	\$1,300,000	Back to Basics	3-5 years
11		Obbolite Ave.	\$1,000,000	\$0 Hone	\$1,000,000	bonds, Pima County Neighborhood	0-0 years
		Osborne Avenue				Reinvestment, Community Services CDBG,	
	012	pedestrian/bike connection	\$2.000.000	\$0 none	\$2,000,000	Back to Basics	3-5 years
n	012	pedestrian/bike connection	\$2,000,000	\$U none	\$2,000,000	bonds, Pima County Neighborhood	5-5 years
			* 5 000 000	* 0	#F 000 000	Reinvestment, Community Services CDBG,	0.5
n	014	Pedestrian/bike underpass	\$5,000,000	\$0 none	\$5,000,000	Back to Basics	3-5 years
						bonds, impact fees, Pima County Neighborho	bc
						Reinvestment, Community Services CDBG,	
n	015	Ormsby Greenway	\$1,000,000	\$0 none	\$1,000,000	Back to Basics	19-36 mo.s
						bonds, impact fees, Pima County Neighborho	bc
						Reinvestment, Community Services CDBG,	
n	016	Ormsby Park Expansion	\$5,000,000	\$0 none	\$5,000,000	Back to Basics	19-36 mo.s
						bonds, impact fees, Pima County Neighborho	bc
		new park at surface parking lot				Reinvestment, Community Services CDBG,	
n	021	on Church/Council	\$5,000,000	\$0 none	\$5,000,000	Back to Basics	3-5 years
						bonds, impact fees, Pima County Neighborho	bc
		Ormsby/Sonoran Desert Park				Reinvestment, Community Services CDBG,	
n	026	trail loop	\$1,700,000	\$0 none	\$1,700,000	Back to Basics	19-36 mo.s
		· ·				bonds, Pima County Neighborhood	
		pedestrian/bike crossing at				Reinvestment, Community Services CDBG,	
n	027	18th St.	\$1.000.000	\$0 none	\$1,000,000	Back to Basics	3-5 years
			+ • • • • • • • •		+ , , ,	bonds, Pima County Neighborhood	
						Reinvestment, Community Services CDBG,	
n	029	new park at Commerce Loop	\$2.000.000	\$0 none	\$2,000,000	Back to Basics	3-5 years
	020		\$2,000,000	¢onone	\$2,000,000	bonds, Pima County Neighborhood	o o youro
		Commerce Loop Park/Santa				Reinvestment, Community Services CDBG,	
n	030	Cruz River connection	\$1,000,000	\$0 none	\$1,000,000	Back to Basics	3-5 years
11			φ1,000,000	ψυποπο	φ1,000,000	Aviation project, bonds, Pima County	J-J years
		Dunbar Springs				Neighborhood Reinvestment, Community	
n	031	pedestrian/bike connection	\$700.000	\$0 none	\$700.000	Services CDBG, Back to Basics	3-5 years
11	031	pedestrian/bike connection	\$700,000	ounone	\$700,000	bonds, Pima County Neighborhood	5-5 years
						Reinvestment, Community Services CDBG,	
			¢4,000,000	¢0	¢1 000 000		0.5
n	O32	Railroad Greenway	\$1,600,000	\$0 none	\$1,600,000	Back to Basics, R.T.A.	3-5 years
		subtotal for sites outside					
		district	\$42,070,000		\$40,300,000		
		GRAND TOTAL	\$115,970,000		\$113,100,000		



DOWNTOWN GREEN INFRASTRUCTURE PLAN: NODES AND CONNECTIONS

Downtown needs green space to be livable and sustainable. The City of Tucson Parks and Recreation Department proposes the Downtown Green Infrastructure Plan: Nodes and Connections as our long range planning document for creating lively, useable green space in the downtown area. The concept is one of creating nodes of green space for active and passive recreation, outdoor performances or festivals and connecting these nodes to the urban fabric through a network of urban greenways, pedestrian and bicycle paths and trails. The connections and nodes are describes below (Cs represents connections and Ns represent nodes).

C1 Arroyo Chico Urban Greenway

The Arroyo Chico Wash provides a planned urban greenway connecting downtown with Reid Park and many other destinations along the way. The greenway between the rattle snake bridge and Campbell Avenue is designed and is in the process of being funded for construction by the Army Corps of Engineers. \$1 million from Pima County 2004 bonds is available toward development of the greenway between Campbell Avenue and Tucson Boulevard. The City of Tucson Parks Department is pursuing other funding sources to close the funding gap for the greenway between Campbell Avenue and Reid Park.

C2 Railroad Wash Urban Greenway

The Railroad Wash is the route of a proposed urban greenway to connect the existing Aviation bikeway to the Arroyo Chico Urban Greenway.

C3 Aviation Bikeway

The existing bike route along Aviation will connect to the rattle snake bridge and the Arroyo Chico Urban Green Way with the completion of the basket bridge.

C4 Highland Avenue Bicycle and Pedestrian Route

The City of Tucson Department of Transportation is constructing a bicycle path along Highland between the University of Arizona and the Arroyo Chico detention basins. This trail links the University of Arizona with the Arroyo Chico Urban Greenway and beyond to the Aviation Bikeway.

C5 High School Wash Linear Park (Highland Avenue to Tucson High School)

A proposed urban pathway along High School Wash connects the University of Arizona, Tucson High School, and the Arroyo Chico Urban Greenway to Reid Park and the Aviation Bike Way to southeast Tucson.

C6 High School Wash Linear Park (Tucson High School to Fourth Avenue)

A proposed linear park along High School Wash to connect Tucson High School and downtown via the Fourth Avenue Underpass and the Arts District Pedestrian Corridor.

C7 Arts District Pedestrian Corridor

A landscaped, shaded pedestrian oriented streetscape that connects Gateway Park to the El Paso Greenway.

C8 El Paso Greenway

A major greenway link to provide a strong alternate mode connection between the Kino Blvd./36th Street area (Silverlake Park) through South Tucson and along Barrios Santa Rosa, Viejo and Historico. The greenway passes through the planned Fire Station One (under design) through the potential Arena area, El Presidio neighborhood, along the east side of I-10, across St. Mary's, through Barrio Anita, and ending near Estevan Park. The greenway includes activity nodes. The project is partially funded and converts the abandoned El Paso Railroad into an urban trail system.

C9 Ormsby Urban Green Way

A proposed urban greenway to connect the El Paso Greenway to an expanded Ormsby Park and the Santa Cruz River. The connection between Ormsby Park and the Santa Cruz River is used for transferring horses from Ormsby Park north along the Santa Cruz River and into Origins for equestrian related special events.

C10 Santa Cruz River Park

A planned urban greenway along the Santa Cruz River. The Santa Cruz River Park is a significant north/south connection for amenities on the west side of I-10. These amenities (the Sonoran Desert Park, Origins, A Mountain, Ormsby Park, mixed use development south of Congress Street, Warren Mill) form a circuit of destinations held together by the Santa Cruz River Park.

C11 18th Street Connector

A proposed trail to connect the proposed 18th Street/Osborn Avenue park with the Santa Cruz River Park via an existing pedestrian underpass at I-10.

C12 Pedestrian/ Bicycle Connector Path at the proposed Rio Nuevo Overpass

A link between the El Paso Greenway and the Santa Cruz River Park to facilitate pedestrian and bicycle travel between downtown and the Rio Nuevo projects on the west side of I-10.

C13 Osborne Avenue Pedestrian/Bicycle Route

A proposed route to connect The El Paso Greenway with the Carillo School School/Park Partnership facilities and the southern downtown area.

N1 Arroyo Chico Detention Basin

The Arroyo Chico Detention Basin project brings the Barrio San Antonio out of the floodplain, but also provides greenspace and trails. Pima County Flood Control and City of Tucson Department of Transportation have been working with the Army Corps of Engineers to design and construct this major infrastructure improvement. The project design is complete and the Army Corps is securing additional funding to complete construction.

N2 Tucson High School

Tucson High School's master planning includes community space and meeting rooms.

N3 Gateway Park

The proposed park is a gateway into the eastern end of downtown and its green infrastructure. The park incorporates the existing Iron Horse Park and proposes the acquisition of new parcels at Toole Avenue and Congress. Gateway Park serves as a collector for urban pathways and greenways from the southeast (i.e. the Arroyo Chico Urban Greenway, Aviation Bikeway), the north (i.e. pedestrian walkway along the Arts District) and the east (i.e. the 4th Avenue underpass, modern street car). Gateway Park provides a connection between 4th Avenue, the Train Depot, Depot Plaza and the Greyhound Depot. Suggested park amenities include a play area, including tot and youth playground structure, rock climbing wall, splash pad for interactive water play, sand volleyball, stage area for small outdoor concerts and kiosks for concessions. It has the potential to showcase great public art.

N4 Proposed Park at the El Paso Greenway South of Saint Mary's

Arroyo Chico Wash Urban Greenway meets the El Paso Greenway at a proposed new park. The park would create a node for outdoor performances, children's play equipment and other urban park amenities to complement the El Paso Greenway.

N5 Proposed Park at 18th Street and Osborne Avenue

A proposed new park on the southwest corner of 18th Street and Osborne Avenue. The park is connected to the surrounding urban trail system and nearby existing amenities via a pedestrian oriented streetscape along Osborne Avenue and an underpass to the west side of I-10. The streetscape along Osborne Avenue connects the new park with the existing Carrillo School. The Parks Department currently runs the Carrillo Pool at the school site. Other amenities along the Osborne Avenue streetscape include the El Tiradito Wishing Shrine and La Pilita neighborhood center. Osborne ends at the TCC. An existing pedestrian underpass connects the new park and Osborne Avenue amenities with the Santa Cruz River Park and a large circuit of planned and existing amenities at the base of A Mountain.

N6 Carrillo School Partnership

A proposed partnership between Carrillo School and the City of Tucson Parks and Recreation Department for shared active recreation opportunities on the school campus. The Parks Department currently operates the Carrillo Pool.

N7 Roundhouse and Detention Basin

A proposed new park for active recreation at the historic railroad yard and adjacent detention basin at the I-10 Frontage Road, 29th Street and Osborne Avenue. A wash to the east of the roundhouse is a proposed urban green way to connect a nearby school to the El Paso Greenway.

N8 Ormsby Park

A proposed expansion to an existing park to accommodate equestrian staging and active recreation. An equestrian staging area is needed to compliment festivals and special events at Origins.

N9 Sonoran Desert Park and Origins

The Sonoran Desert Park is a natural resource park planned at the base of A Mountain on the site of a landfill. It compliments Origins and provides a wildlife and pedestrian connection between the Santa Cruz River and A Mountain/Tucson Mountain Park. This wildlife connection is one of the last possible opportunities to bring a natural area to the basin's most significant riparian habitat.

N10 Downtown

A node containing multiple pocket to neighborhood sized parks as well as an abundance of other cultural and historical resources. Open space downtown ranges from a small sculpture garden to the new Presidio San Agustin del Tucson to such established parks as El Presidio Plaza and Armory Park. Many new greenspace-development opportunities exist in this node and each should be explored to the fullest in order to provide the population of this inner urban core with opportunities for open space and recreational activities.

N11 University of Arizona

A major population node with its own extensive green infrastructure.

N12 Menlo Park

Located on Granada, across from the Ward 1 office. It has playgrounds, fields, basketball court, and pool with slide. It is due an upgrade.

N13 David Herrera/Ramon Quiroz Park and Oury Center and pool

Located at St. Mary's road and I-10. Oury Center is a small, historic center (1919), housing recreation programming for children and seniors. The park has two softball fields, a playground, and a pool. The recent Master Plan of the site calls for a future center, and improved grounds. A covered basketball court will be built within the year.

N14 Estevan Park

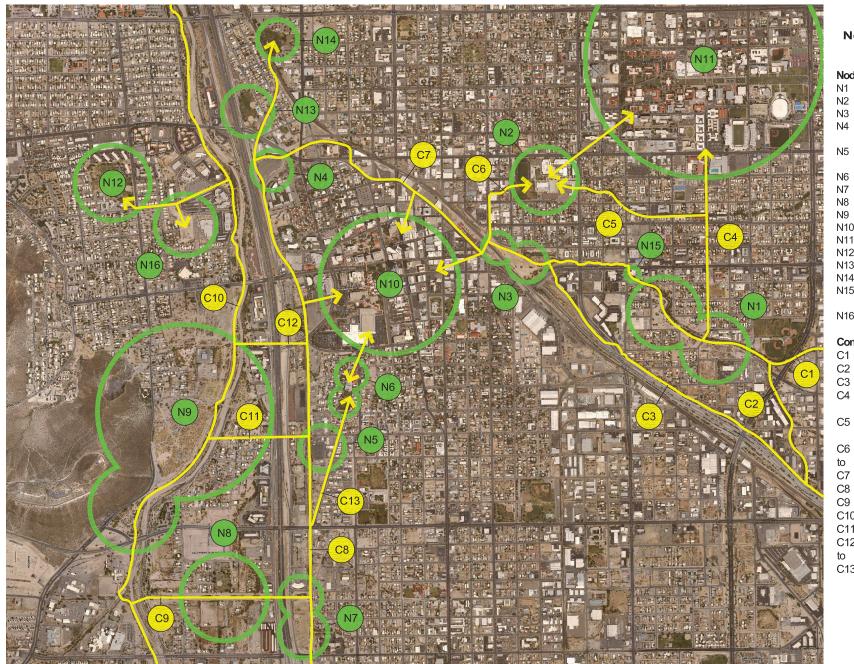
Originally a "tent city", this old park contains the signature mesquite tree for the City Parks and Recreation Department logo. The park is at the end point for theEl Paso Greenway, and a connection to it should be developed. The park contains a center, currently on loan to Tucson Urban League, who contracts it out for Day Care use. Also at this site is the "home" for the Rugby league. A large field is the main feature. The park also has a basketball court. It is located across the street from Dunbar Spring.

N15 Gateway to The Arroyo Chico Urban Greenway

A proposed new park development to act as a welcoming node to the Arroyo Chico network of urban trails leading south and east to Reid Park.

N16 Proposed Park/Ball Fields - Menlo Park Neighborhood

Possible new sports field location.



Downtown **Green Infrastructure** Nodes and Connections Master Plan

Nodes:

- N1 Arroyo Chico Detention Basin
- N2 Tucson High School
- Gateway Park N3
- Proposed Park at El Paso N4 Greenway & Saint Mary's
- N5 Proposed Park at 18th Street & Osborne Avenue
 - Carillo School Partnership
- Roundhouse & Detention Basin
- N8 Ormsby Park
- Sonoran Desert and Origins Parks
- N10 Downtown Parks
- N11 U of A Greenspace N12 Menlo Park
- N13 Herrera / Quiroz Park
- N14 Estevan Park
- N15 Gateway to Arroyo Chico Urban Greenway
- N16 Proposed Park / Ball Field Site

Connections:

- C1 Arroyo Chico Urban Greenway
- C2 Railroad Wash Urban Greenway C3 Aviation Bikeway
- C4 Highland Avenue Bicycle and Pedestrian Route
- C5 Highschool Wash (Highland to Tucson High)
- C6 Highschool Wash (Tucson High
- to 4th Avenue)
- C7 Arts District Pedestrian Corridor
- C8 El Paso Greenway
- C9 Ormsby Urban Greenway
- C10 Santa Cruz River Park
- C11 18th Street Connector
- C12 Pedestrian & Bicycle Connection to Rio Nuevo C13 Osborn Avenue Bicycle and Pedestrian Route



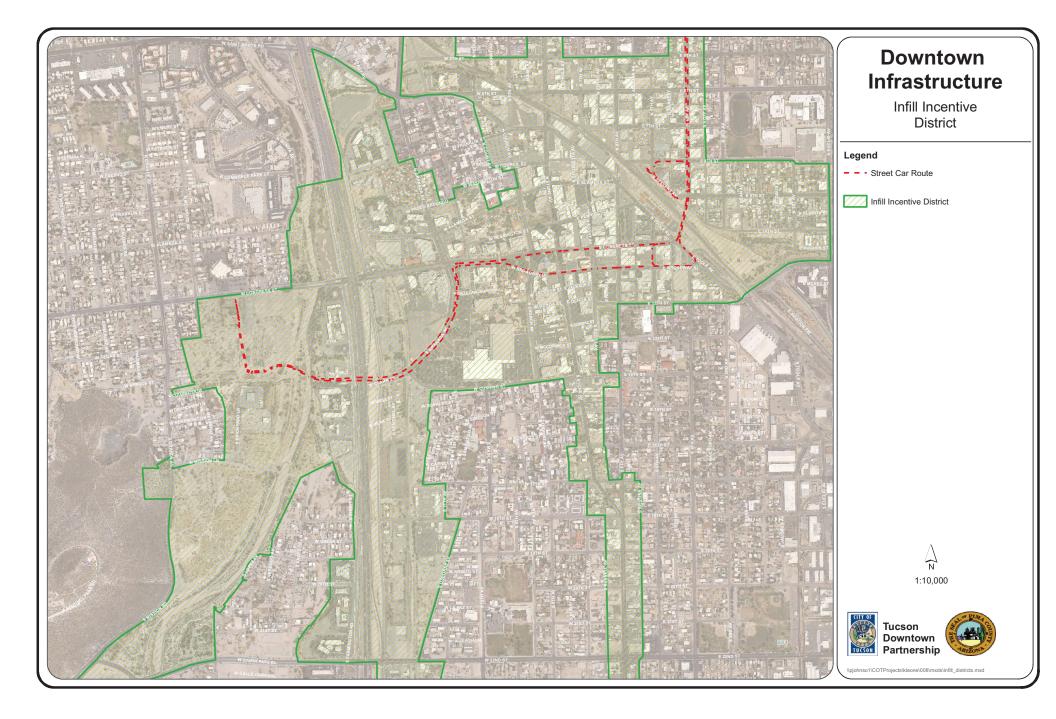
DOWNTOWN AREA INFILL INCENTIVE DISTRICT

OVERVIEW

On October 24, 2006, the City of Tucson established a Downtown Area Infill Incentive District (Resolution No. 20487). The goals of the Infill District are to: address barriers to downtown development such as inadequate infrastructure, lengthy permit processes, obsolete development standards, difficult parcel assembly, environmental clean-up issues, and associated development barrier issues. It is anticipated that the incentives included in this legislation will help enliven and revitalize the downtown area by promoting public-private partnerships, a pedestrian environment, and a mix of well-designed land use contributing to Tucson's rich historic, cultural, and artistic heritage.

DETAILS OF THE INFILL INCENTIVE DISTRICT

Under this legislation, the City of Tucson, through a development agreement, can waive or defer building permit fees, rezoning application fees, and/or fees for plan review. The City may also allow for modification to lot coverage standards, parking standards, or loading standards. Minimum project requirements to receive these benefits are: 1) a minimum physical project cost of at least \$250,000, and 2) meeting at least three of the stated goals of the legislation. A map of the Infill Incentive District is included in this report.



FAÇADE PROGRAM

OVERVIEW

A Façade Program for the Congress Street District was drafted in the first quarter of 2007 with input from private property owners and business owners along Congress Street. The program is designed to encourage aesthetic improvements in the Congress Street Entertainment District, and to facilitate Certificates of Occupancy. The geographic area for the program includes Congress Street and Broadway Boulevard from Veinte de Agosto Park at Church Ave to Toole Avenue. The district also covers the portions of 5th Avenue, 6th Avenue, Scott Avenue, Stone Avenue, and Church Avenue between Congress Street and Broadway Boulevard. The primary emphasis will be placed on proposals that front Congress Street between Stone and 4th Avenue. Facades are defined as sides of buildings that face public streets, alleyways, and rights-of-way.

APPLICATION PROCESS

Any property owner or business operator with the property owner's approval within the district may apply for funds. A Program Review Panel will be created, consisting of a representative from the Tucson Downtown Alliance, a representative appointed by the City Manager and a representative from the underwriter. In addition, a registered architect will serve a non-voting, advisory role. The Panel will review applications, consult with the architect on aesthetic issues and make recommendations for forwarding to the underwriter for final analysis and approval.

All projects will be subject to normal development procedures, including review by the Design Review Board, Historical Commission Plans Review Committee, permitting standards and review fees. Projects will be eligible for permit fee waivers and tax rebates as has been approved by the Mayor and Council.

Eligible expenses include physical improvements to façade of building, including but not limited to: painting, sandblasting, mortar repair, window replacement, installation of awnings, Temporary Revocable Easement (TRE) improvements, and signage. Architectural fees and construction management expenses up to 5% of total project funding awarded under this program will be eligible.

Property owners with a history of code enforcement actions, real estate or business tax delinquencies are not eligible to apply.

Proposals will be reviewed and ranked by the Program Review Panel for project's visible impact to streetscape of Congress District and compatibility with the District image as an arts and entertainment hub complemented by unique retail.

COST & FUNDING

There are two funding sources for the program. Each successful proposal will be funded with a combination of loan and grant proceeds. Each proposal must meet underwriting standards for the loan term.

- 1) Approximately \$550,000 from the Downtown Revolving Loan Fund, administered and underwritten by the Business Development Finance Corporation (BDFC) or a downtown-based lender.
- Approximately \$2 million (pending approvals) from Rio Nuevo District, subject to historic facade conservation easements or façade improvement and maintenance easements and long-term District facade leases.

Loans will be zero percent interest with a forgivable clause. Loan terms would be 20-year amortization, five-year balloon. Standard underwriting analysis would be applied to all projects recommended by the Program Review Panel. Eligibility for principle forgiveness will be based on quality and tenure of tenants and a matching formula greater than 1:2 that would allow forgiveness as a function of additional improvements made to the building.

For Rio Nuevo funding, a lease would be negotiated with the owner of each building to be improved, pursuant to which the owner would lease to Rio Nuevo approximately 10 horizontal feet of the building, measured from the public right of way. The term would be 20 years. In consideration, Rio Nuevo would agree to make certain specified improvements to the façade of the building.

Funding will be provided with a 1:1 match from the business or property owner for improving buildings with long-term, existing tenants and a current certificate of occupancy. Funding will be provided at a 1:2 match for buildings without existing tenants and/or current certificate of occupancy.

There will be a cap on funding available per project, and it will be calculated at \$50 per square foot of eligible façade. For historic renovations the cap would be \$65 per square foot of eligible façade.

Changes in the approved and constructed façade projects could subject property owner and/or assignees to repayment penalties.

It is recommended that a similar and separate program for the warehouse district be implemented. Program costs would be \$2.55 million.

PROPERTY RESEARCH ONLINE

OVERVIEW

The Property Research Online (PRO) project being developed by the City's Development Services Department, with mapping assistance from the Department of Transportation, intends to provide a web site that offers a rich resource of information to assist developers, property owners, and potential property owners with a contextually related and integrated site that is comprehensive, current, and provides most information needed when developing a property. The web site will provide both a text and map interface and will provide the following information on any property in Tucson and is designed to provide the same to any participating jurisdiction in Pima County:

- Jurisdiction and link to jurisdiction web site
- Parcel number and list of all addresses on the parcel
- All zoning on each parcel and:
 - o Context link to Land Use Code for each specific zone
 - Link to the rezoning and annexation conditions impacting the parcel (if any)
- All overlays (including web links to explanatory material) affecting the development of the property including:
 - o Impact Fee Benefit Area
 - o Ward
 - o Downtown Core, Rio Nuevo Downtown, Incentive Zone
 - Infrastructure availability
 - Airport Environs Zone
 - Wash and Floodplain
 - o Scenic Corridor
 - o Landfill
 - o **Historic**
 - o Etc.
- Permits, Inspection and Plan review results
 - All documents and plans available over the web:
 - Certificate of Occupancy documents
 - Last CofO
 - Last approved Site Plan
 - Last approved Floor Plan
 - Relevant Ordinances and Codes
 - Building Plans, Site Plans, Grading Plans, etc.

All of the above would be provided both in a text format and a map format with each displayed by parcel or address; there will be no need to travel to multiple sites or visit the record section of various departments. All information is available online by simply typing in an address or parcel, or selecting a parcel from a map.

Cost & Funding

In order to assemble this information and add the mapping interface for the downtown area within the next 6 months additional funding is needed for hardware, software, consulting, and staffing as follows:

Item Description	Amount
Department of Transportation	
Map Server Hardware	\$27,000
Map Server Software	\$69,000
Mapping Software Consulting Services	\$48,000
Transportation Subtotal	\$144,000
Development Services Department	
Temporary Records Staff to Research and Digitize Film	\$40,000
Web Software Consulting Services	\$40,000
Development Services Subtotal	\$80,000
Total Budget Requested	\$224,000

This assumes that the Development Services Information Technology section will be at full strength and positions vacated will be backfilled either with new hire(s) or consultants with comparable and needed skills. The six-month delivery schedule starts after budget is in place and most if not all support positions are secured. Monies in existing department budgets earmarked to fund required items not included above will be fully available to project needs.

TUCSON CONVENTION CENTER / ARENA

OVERVIEW

The Tucson Convention Center (TCC) was built in 1971. The TCC is the largest event facility in Tucson. It includes exhibit halls, an arena, two performing arts theaters, a ballroom and a limited amount of meeting space. Due to lack of meeting space, and an additional exhibit hall, the TCC is limited in the type of conventions and conferences it can attract. A proposed new arena and renovation of the current TCC should help alleviate the current space limitations. In addition to the new arena and TCC renovation, a Civic Plaza and a new hotel also serve a vital component of Rio Nuevo.

TCC Renovation

TCC Exhibit Hall will be renovated and the existing TCC arena converted into a second exhibit hall. Meeting rooms will be added to the complex at the location of TCC's existing east parking lot. The renovation will also include an additional ballroom. It is estimated that the cost of the renovation will be \$60 million. TIF dollars could account for \$30 million of the funding.

New Arena

A new arena is being proposed for an area of land located east of the Interstate 10 frontage road between West Congress and Cushing Street. The proposed arena would be approximately 300,000 square feet. The facility will contain approximately 12,300 seats. The facility will be developed as a quality, state-of-the-art venue and would accommodate the needs of various user types. It is estimated that the full costs of the new arena maybe approximately \$130 million (to be funded with TIF monies).

<u>Civic Plaza</u>

The proposed Civic Plaza will be located south of Congress Street and east of Interstate 10. It will connect the TCC with the proposed University of Arizona Science Center and the proposed new arena. It will have open space, ramadas, fountains and landscaping. Additionally, a parking garage will be located under the plaza. Estimated costs for the Civic Plaza adjacent to the new arena are \$2.5 million.

Some of the construction and improvement projects are shown in the following list:

- Greenway landscape and pedestrian pathway
- Private Hotel renovation
- Private Exhibition Facility
- Private Office Building.
- Parking (Cost included in Parkwise section)
- Retail/Entertainment
- Symphony Hall
- Utility, Roadway, and Streetscape Improvements
- Expansion of existing Central Energy Plant to meet development demand

New Hotel

Recently, the City issues a Request for Qualifications (RFQ) regarding the design and development of flagship convention center hotel.

ROADWAYS, STREETSCAPE, & PLAZAS

Significant realignment of roadways is not planned based on the current Arena location. It will be necessary to reconstruct the existing Granada Avenue for the installation of utilities, streetcar track, and new streetscape elements. Construction of roadway improvements is included for El Paso Southwestern Avenue (Greenway).

ASSESSMENT OF CAPACITY

The TCC's capacity and distribution system will need to be increased to serve the Arena and possibly the new hotel.

Expansion of TDE Central Plant

Existing capacity of TDE Central Plant is inadequate to meet expansion needs. The chiller and cooling tower capacity will need to be increased along with re-piping of the Central Plant. Cost \$19,025,500.

Chilled Water

Distribution piping within the Civic Plaza area will need to be installed with the streetscape projects.

<u>Heating water</u> Expansion of the heating water system (other than TCC expansion) is not currently planned.

<u>Potable Water</u> Expansion and relocation of the potable system is required to serve new development.

Reclaimed Water

Expansion of system to allow future connection and use by buildings.

Sanitary Sewer

New sewer system and connection to existing 60" Pima Count interceptor. Relocation or replacement of the interceptor is not included here.

Storm Sewer

New storm drains are required to correct existing drainage problems.

<u>Natural Gas</u>

Connections to new developments.

<u>Electricity</u>

New underground distribution system to serve development sites. Costs are shared between City and TEP per the existing franchise agreement.

<u>Telephone</u>

Expansion of distribution system to serve development sites. Costs shared with Qwest.

Cable TV

Expansion of distribution system to serve development sites. Costs shared with Cox.

COT/Pima County IT Networks

Expansion of system to include Civic Plaza area.

STREETCAR ALIGNMENT

The streetcar will run between the TCC and the new arena on the existing Granada Avenue alignment.

Cost & Funding

Costs for the new arena, the TCC expansion, the upgrade of the TDE Central Plant for heating and cooling, and the Civic Plaza will be funded from the bond issue for the new arena and are not included in the master budget spreadsheet for this report.

DOWNTOWN INFRASTRUCTURE STUDY

		COSTS	FUNDING					
		Total Cost to		Anticipated F	undi	ng Source	NOTES	
		Upgrade		Agency		ublic, Private & ther Sources		
UNDERGROUND UTILITIES								
Pima County Wastewater:								
Rehab. Existing Sewer	\$	750,000	\$	750,000	\$	-		
Streetcar Route Relocation	\$	3,542,000	\$	1,740,000	\$	1,802,000	Relocation cost responsibility under discussion btwn. City & County	
Upgrades for Future Development	\$	3,500,000	\$	3,500,000	\$	-		
Total	\$	7,792,000	\$	5,990,000	\$	1,802,000		
Southwest Gas:								
Upgrades Associated with Streetcar Route	\$	2,100,000	\$	-	\$	2,100,000	\$1M to increase capacity, \$100,000 cathodic protection, and \$1M to replace vintage stee pipes	
Other Upgrades for Future Development (within Study Area) Upgrades for Future Development	\$	1,000,000	\$	-	\$	1,000,000		
(outside Study Area)	\$	5,000,000	\$	-	\$	5,000,000		
Total	\$	8,100,000			\$	8,100,000		
Stormwater (City Transportation):	Ť	0,100,000			Ť	0,100,000		
Streetcar Route Relocation	\$	252,500	\$	-	\$	252,500		
Upgrades for Future Development	\$	13,000,000	\$	-	\$	13,000,000	Barrio Sin Nombre, Barrio Viejo, Civic Plaza, TCC expansion	
Total	\$	13,252,500			\$	13,252,500		
Tucson Electric Power:	1	-, - ,			<u> </u>	-, - ,		
Upgrade in Streetcar Route	\$	3,500,000	\$	-	\$	3,500,000	Estimated upgrade at \$300 per sq. ft. (11,702 feet from 4th Ave. to Santa Cruz River)	
New Substation	\$	8,000,000	\$	8,000,000	\$	-		
Undergrounding Power Lines	\$	1,000,000	\$	300,000	\$	700,000	Approximately a split in cost between TEP (30%) and developer (70%)	
Total	\$	12,500,000	\$	8,300,000	\$	4,200,000		
Tucson Water:								
Streetcar Route Relocation (potable water)	\$	4,100,000	\$	-	\$	4,100,000		
Replacement of Pipe (potable water)	\$	6,800,000	\$	-	\$	6,800,000	Pipe older than 40 years needs replacement	
Relocation of Maintenance Facility	\$	40,000,000	\$	40,000,000	\$	-		
New Reclaimed Water Lines	\$	1,500,000		-	\$	1,500,000		
Total	\$	52,400,000	\$	40,000,000	\$	12,400,000		
UNDERGROUND UTILITIES TOTAL	\$	94,044,500	\$	54,290,000	\$	39,754,500		
INFORMATION TECHNOLOGY								
City of Tucson:			-					
Fiber Network (with Pima County)	\$	1,000,000	\$	-	\$	1,000,000		
Downtown Wi-Fi	\$	6,000,000	\$	-	\$	6,000,000	Costs could be shared with	
Total	\$	7,000,000	·		\$	7,000,000	private operator	
Cox Communications:	Ŷ	1,000,000			φ	1,000,000		
Upgrades for Future Development	\$	2,300,000	\$	2,300,000	\$		Does not include trenching	
Streetcar Route Relocation	\$	2,300,000		2,300,000	\$	200,000	No service on much of	
		,		-			Congress, Broadway	
Total	\$	2,500,000	\$	2,300,000	\$	200,000		
Qwest Communications:	¢	2 000 000	¢		¢	2 000 000		
Streetcar Route Relocation	\$	3,000,000	\$	-	\$	3,000,000	Would be joint trenched with	
Undergrounding Lines	\$	2,100,000	\$	-	\$	2,100,000	TEP, which will lower cost	
Total	\$	5,100,000			\$	5,100,000		
INFORMATION TECHNOLOGY TOTAL	\$	14,600,000	\$	2,300,000	\$	12,300,000		

DOWNTOWN INFRASTRUCTURE STUDY

		COSTS	FUNDING			G	
	Total Cost to		Anticipated Funding Source			NOTES	
		Upgrade		Agency		<pre>blic, Private & ther Sources</pre>	
TRANSPORTATION							
4th Avenue Underpass Utility							
Relocation:	\$	2,000,000	\$	-	\$	2,000,000	
Access and Circulation:							
Extension and Bridge (Cushing across Santa Cruz)	\$	-	\$	-	\$	-	\$9M Rio Nuevo funding through Tucson Origins
New Streets (Heritage Park and Mercado Areas)	\$	-	\$	-	\$	_	\$1M Rio Nuevo funding through Tucson Origins
Pedestrian Bridge Across Congress to connect City/State Garage to Arena	\$	2,000,000	\$	-	\$	2,000,000	
Pedestrian Bridge Across 4th Ave. South of RR Tracks)	\$	1,000,000	\$	-	\$	1,000,000	
Total	\$	3,000,000	+		\$	3,000,000	
City of Tucson Right-of-Way Improvements/Streetscape:							
Landscape and Hardscape	\$	12,550,712	\$	-	\$	12,550,712	Planters, plants, pavers, tree grates
Lighting	\$	10,876,920	\$	-	\$	10,876,920	Street lights, landscape lights, upgraded catenary poles, traffic signals, festival lights
Furniture, Features, and Amenities	\$	12,439,306	\$	-	\$	12,439,306	Bollards, trash bins, seating, fountains, restrooms, speakers, trans. stops, parking amenities, public art, signage
Infrastructure	\$	24,360,365	\$	-	\$	24,360,365	Irrigation lines, water lines, sewer (for restrooms), electrical, fountains
Demolition	\$	2,888,528	\$	-	\$	2,888,528	Remove existing concrete, pavers, etc.
Contractor Fees, Overhead, Escalation	\$	33,761,492	\$	-	\$	33,761,492	
A/E Fees	\$	19,145,716	\$	-	\$	19,145,716	20%
TCC Landscaping	\$	19,500,000	\$	-	\$	19,500,000	Not included in TCC/Arena budget
Streetscape for Ped. Bridges, Mercado /Origins, Congress St. (Grande/Silverbell)	\$	4,617,600	\$	-	\$	4,617,600	Civic plaza/arena, south of 4th Avenue
Deduct for Items Budgeted Elsewhere	\$	23,205,400	\$	-	\$	23,205,400	
Deduct for Streetscapes Outside Rio Nuevo Boundary	\$	9,774,895	\$	-	\$	9,774,895	Extension of streetscape to Silverbell
Total	\$	107,160,344	\$	-	\$	107,160,344	
I-10 Widening:							
Clark Street Bridge and Underpass	\$	-	\$	-	\$	-	\$9M in TIF funding already approved
Box Culverts and Drainage for Arena							\$4M - City commitment of funds
Site Modern Streetcar - Extension to	\$	-	\$	-	\$	-	(non-TIF) Through Mercado and Menlo
Wodern Streetcar - Extension to Westside	\$	10,000,000	\$	-	\$	10,000,000	Park
Parking:							
New Parking Structures (cost plus debt)	\$	300,100,000	\$	230,100,000	\$	70,000,000	Structures to be built throughout the life of the TIF
New Pay-by-Space On-Street Parking System	\$	3,000,000	\$	1,500,000	\$	1,500,000	
Total	\$	303,100,000	\$	231,600,000	\$	71,500,000	
TRANSPORTATION TOTAL	\$	425,260,344	\$	231,600,000	\$	193,660,344	

DOWNTOWN INFRASTRUCTURE STUDY

	COSTS	FUNI	DIN	IG		
		Anticipated Funding Source		-	NOTEO	
	Total Cost to		Public, Private &		NOTES	
	Upgrade	Agency		Other Sources		
SERVICES						
Business Improvement District:						
New Capital Equipment (for expanded BID and enhanced services)	\$ 137,300	\$ 137,300	\$	-		
Enhanced Services (expanded BID and existing BID)	\$ 714,000	\$ 714,000	\$	-	Not a capital expenditure.	
Total	\$ 851,300	\$ 851,300	\$	-		
Fire	\$ -	\$ -	\$	-		
Police:					No expenses identified	
Additional Police Officers	\$ -	\$ -	\$	-	18 officers, plus bikes/vehicles - \$1.8M, not a capital expenditure	
Police Department Kiosk	\$ 50,000	\$ -	\$	50,000	To be located at the Ronstadt Transit Center	
Downtown Security Cameras	\$ -	\$ -	\$	-	Cost estimate: \$300,000	
Total	\$ 50,000	\$ -	\$	50,000		
Trash/Recycling Pick-up:	,		-	,		
Front Loading Trucks	\$ 450,000	\$ 450,000	\$	-		
Rolloff with Compactor	\$ 17,000	\$ 17,000	\$	-		
Total	\$ 467,000	\$ 467,000	\$	-		
SERVICES TOTAL	\$ 1,368,300	\$ 1,318,300	\$	50,000		
ARCHAEOLOGICAL SERVICES	,,	,,				
Assessments on Publicly Owned Sites	\$ 3,302,000	\$ 3,302,000	\$	-	Does not include TPD fuel island, Ronstadt, and I-10 frontage	
ENVIRONMENTAL TECHNICAL SERVICES						
Assessments on Publicly Owned Sites	\$ 22,191,920	\$ 22,191,920	\$	-	\$8.9 million already programmed in Cultural Plaza/Museum Complex	
PARKS						
Green Space/Parks	\$ 73,900,000	\$ 66,100,000	\$	7,800,000		
PUBLIC PROGRAMS						
Facade Program	\$ 5,000,000	\$ -	\$	5,000,000	\$2.5 million associated with Congress and \$2.5 million for the remainder of downtown	
GRAND TOTALS	\$ 639,667,064	\$ 381,102,220	\$	258,564,844		

The following section outlines the recommendations and Next Steps that are necessary to successfully create a "Development Ready" downtown.

1. Overall Recommendations

Actions:

- Convene a working group comprised of City agencies, utility companies, and downtown interests to oversee the implementation of this report's recommendations.
- Hire a "Downtown Czar" to oversee the City's redevelopment efforts downtown, including the coordination of the City's various capital programs and overall direction of the various agencies involved in downtown. This position should have the authority to provide the overall direction for City agencies in order to ensure the consistency of their efforts with the overall vision for downtown Tucson.
- Implement a streamlined permitting process for downtown development.
- Establish a thorough electronic database of infrastructure improvements (existing and proposed) within the downtown area.
- Improve downtown's image as a safe place by increasing the visibility of Tucson Police downtown, including the creation of a visible and welcoming police kiosk near the Rondstadt Transit Center.

Next Steps (Complete within 3 Months):

- Convene a study group to identify approaches to streamlining the development permitting process in the downtown area.
- Hire a "Downtown Czar."

2. Streetscape Improvements/Pedestrian and Bicycle Circulation

Goal: Create a world-class downtown streetscape that is "uniquely Tucson."

Actions:

- Build on past work/studies to create a set of streetscape standards for downtown streets that will ensure the consistency and quality of the public realm.
- •
- Identify, fund, and implement a first phase streetscape project ("Pilot Project") at the east end of Congress Street that fully coordinates with the Fourth Avenue Underpass, future streetcar, and private development projects.
- •
- Create a phasing plan for streetscape improvements that considers or accommodates other public projects and private development. Provide adequate funding from a variety

of sources (public and private) to implement streetscape improvements consistent with the phasing plan.

- Ensure adequate funding of ongoing maintenance of the downtown streetscape (e.g., irrigation, planter maintenance, street sweeping, painting, etc.) so that a high level of quality is maintained over the life of the streetscape projects.
- Coordinate streetscape improvements with other downtown projects such that the timing of streetscape implementation minimizes the overall disruption to downtown residents, businesses and visitors.
- Design, fund and implement a façade improvement strategy to target and improve dilapidated storefronts in the downtown core.
- Develop a comprehensive plan for downtown bikeways and walkways.
- Create an attractive and inviting pedestrian corridor linking the Tucson Community Center to Congress/Broadway.

Next Steps (Complete within 3 Months):

- Fund the development of streetscape standards for downtown and undertake the production of these standards. (Costs part of Pilot Project)
- Form a working group including city agencies and private interests to oversee the streetscape standards process.
- Identify and fully fund a first phase streetscape Pilot Project.
- Identify and fund a façade rehabilitation program for downtown.

3. Utility Improvements

Goal: Provide adequate utility services in the correct locations to ensure that downtown Tucson is Development Ready.

Actions:

- Coordinate work in the public rights-of-way (e.g., streetcar, Downtown Links, Fourth Avenue Underpass, etc.) with utility companies to ensure that necessary utility upgrades are provided concurrent with public works projects.
- Coordinate private development efforts and timelines with utility companies to ensure that utility services are available to meet current and future development needs in the downtown core.
- Create a free Wi-Fi zone in downtown.
- Enact a street cut moratorium policy that prohibits the installation or upgrade of utilities within a five-year period of a street being brought to full standards (e.g., completion of streetscape standards, completion of streetcar project, completion of repaving, etc.).

 Maximize cost efficiencies in the delivery of utility services to downtown by grouping utility improvements in common trenches where applicable.

Next Steps (Complete within 3 Months):

- Draft an RFP to solicit interest among Wi-Fi providers to create free Wi-Fi zone downtown.
- Utilizing the working group identified under #1. above, identify projects where utility upgrades/coordination will need to occur immediately. Among those projects which will require discussion are the Fourth Avenue Underpass, Modern Streetcar, and Downtown Links.

4. Modern Streetcar

Goals:

- Ensure that the Streetcar project is funded, developed, and in operation by as early a date as possible
- Upgrade utility services along the streetcar alignment in coordination with streetcar construction and ensure that construction impacts are minimized.

Actions:

- Identify what, if any, utility impacts are present along the streetcar alignment. Where
 relocation is necessary, ensure that utility relocations are consistent with future capacity
 needs for downtown.
- Identify other improvements (e.g., streetscape improvements, intersection improvements, etc.) that should be coordinated and timed to coincide with the Streetcar project to avoid future construction disruption.

Next Steps (Complete within 3 Months):

- Convene a utility working group immediately to coordinate utility relocation efforts with the Streetcar project.
- Study opportunities to move up construction of the track slab on Congress and Broadway downtown to minimize construction impacts.
- Secure federal funding to complete the streetcar funding package and explore a local funding package for phase 2 of the streetcar project.

5. Parks/Open Space Improvements

Goal: Establish/create exciting and high quality open spaces in the downtown area to engender a sense of place and create social and recreational opportunities for downtown residents, employees, and visitors.

Actions:

- Identify potential open space opportunities in the downtown core and establish a funding plan to acquire and develop these spaces.
- Work with private sector developers to identify opportunities to incorporate public and semi-public open spaces within development projects.

Next Steps (Complete within 3 Months):

 Identify a City Parks representative to work with other infrastructure stakeholders in the downtown core on the planning, development and funding of open space improvements.

6. Funding and Financing

Goals:

- Create a realistic and sustainable funding and financing plan for the implementation of infrastructure improvements within the downtown core.
- Identify and secure a variety of funding sources public and private to broaden the base of available funding and potentially accelerate the pace of infrastructure development.

Actions:

- Create a five year sources and uses funding plan for infrastructure development. The plan should include specific recommendations for funding sources by project and a cash flow by year. The plan should be updated annually to cover the next five year period and include new projects as funding allows.
- As part of the five year funding and financing plan, include a look-ahead budget for the next 5-10 years that identifies the infrastructure projects that will likely be pursued and the funding needs for those projects.
- Establish a \$1M \$2M Strategic Opportunity Fund within the five year plan that provides a flexible fund that the City can utilize to catalyze or respond to development proposals.
- Creatively identify potential financing sources for infrastructure improvements. Utilize the City's ability to issue tax-exempt financing to stretch infrastructure dollars as far as possible.
- Analyze the creation of a Municipal Services District covering all or portions of the downtown area as a mechanism to incorporate private investment in downtown infrastructure.

Next Steps (Complete within 3 Months)

- Establish an initial draft of a five year funding and financing plan for review and comment.
- Identify potential funding sources (public and private) that may be utilized for implementing infrastructure improvements.



ADOPTED BY THE MAYOR AND COUNCIL MAY 8, 1989 RESOLUTION NO. 14889

nna ement

Prepared by the City of Tucson Planning Department May 8, 1989

MAYOR AND COUNCIL

Sharon B. Hekman George Miller Thomas J. Volgy, Mayor Roy B. Laos Roger H. Sedlmayr

Janet Marcus Bruce Wheeler

CITIZENS ADVISORY PLANNING COMMITTEE

Gene Berry Kenneth Goodman Robert Lewis Matt Perri Louis Katz, Chair David Dybvig John Jones Larry Lucero Sonia Trejo

Ann Fina Paul Lindsey Douglas Mitchell Joseph Yee

CITY MANAGER

Joel D. Valdez

PLANNING DEPARTMENT

William D. Vasko, Director

John F. Siry, Assistant Director J. T. Fey, Principal Planner Bob Brumbaugh, Drafting Supervisor George Hovey, Drafting Technician Camilla J. Kari, Planning Program Coordinator Greg Fisher, Senior Planner Karol Cruz, Drafting Technician Photography by Greg Fisher

UNIVERSITY AREA PLAN STEERING COMMITTEE

Chuck Albanese Bill Brown William Craig Jerry Gardner Hardy Grant Larry Hecker Lynne Peterson Philip Van Wyck Chair: Mark Adams Bill Barrow Sharon Chadwick Jaki Foster Bob Giebner Michael Haggerty Wayne Kappel Maria Self Ellen Wheeler

Susan Bernhard Phil Cheeseman Jamie French George Giley Venece Hardy Carol Oestreich Karla Timmons

Special thanks to David Duffy and Bruce Wright from the University of Arizona, and Tony Paez and Benny Young from the City of Tucson Department of Transportation for their input and assistance.

CITY OF TUCSON PLANNING DEPARTMENT

May 8, 1989

Este documento se publica en inglés solamente. Para solicitar asistencia en la traducción de este documento, las personas de habla híspana pueden comunicarse con el Departamento de Planeación y Servicios de Desarollo, llamando al 791-5500, o visitando sus oficinas ubicadas en el segundo piso del edificio County-City Public Works, con dirección 201 North Stone Avenue.

Mayor and Council

May 8, 1989 - Resolution #14889 (Adoption) June 10, 1991 - Resolution #15693 (Amendment) February 24, 2003 - Resolution #19520 (Amendment) December 13, 2011 – Resolution #21835 (Amendment)

<u>Citizen's Advisory Planning Committee</u> April 12, 1989 May 1, 1991

Planning Commission January 8, 2003 November 2, 2011

TABLE OF CONTENTS

Introductio	on	.1
Section 1:	Overall Goals of the University Area Plan	.5
Section 2:	Neighborhood Conservation/Historic Preservation	.7
Section 3:	Land Use and Development	.9 .10 .11 .14 .14
Section 4:	Transportation	.19
Section 5:	Environment	.22
Section 6:	Public Services	.23
Section 7:	University of Arizona	.24
Section 8:	General Design Guidelines	.27
Section 9:	Defensible Space Guidelines	.31
Section 10	: Definitions	.33

MAPS

Map 1. University Area and Vicinity	2
Map 2. General Land Use	
Map 3. Neighborhoods and Historic Districts	6
Map 4. Pedestrian Commercial Districts	
Map 5. Industrial Districts and Zoning	
Map 6. Major Streets	
Map 7. Alternate Modes Transportation Routes	
Map 8. University of Arizona Campus Plan Area	

FIGURES

Figure 1. Perimeter Greenbelt Concept	26
Figure 2. Complement Surrounding Development	
Figure 3. Reflect Neighborhood Character	27
Figure 4. Buffer Adjacent Uses	
Figure 5. Respect Historic Development	
Figure 6. Preserve Residential Privacy	29
Figure 7. Utilize Fine-grained Design Elements	30
Figure 8. Territorial Space	31
Figure 9. Assigned Open Space	32

INTRODUCTION

Location

The *University* Area is centrally located in the developed portion of metropolitan Tucson (Map 1), bounded by Broadway Boulevard on the south, Country Club Road on the east, Grant Road on the north, Stone Avenue on the west, and Toole Avenue on the southwest. The 5.17 square mile plan area includes eleven registered neighborhoods and several pedestrian districts surrounding the main campus of the University of Arizona (UA).

(December 13, 2011, Resolution 21835, changed 'pedestrian commercial districts' to 'pedestrian districts')

Important Note: In accordance with State law, UA property is not subject to City of Tucson jurisdiction, if used for government purposes. UA campus development is guided through the policies of the *Comprehensive Campus Plan*, adopted and administered by the UA. In order to distinguish the City's adopted area plan from the University's adopted *Campus Plan*, references to the City of Tucson *University Area* and *University Area Plan* will be noted in *italics*.

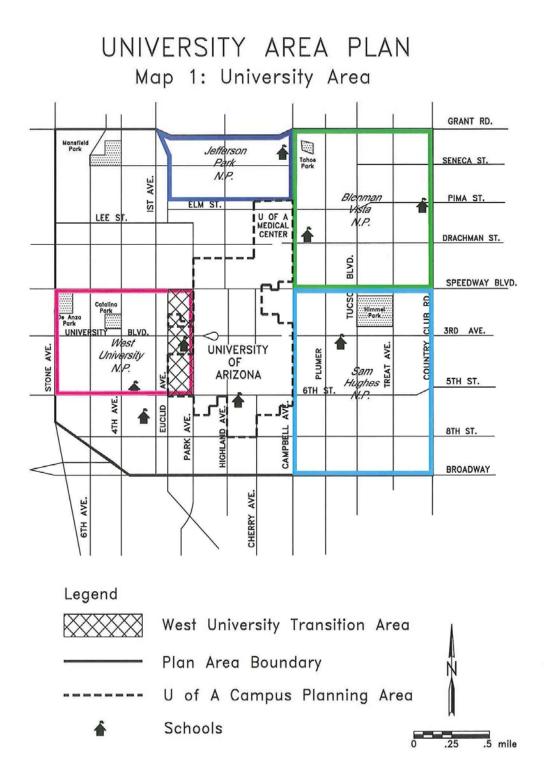
Character

The *University Area* is rich and diverse in character, offering a unique blend of housing and lifestyle options, educational and cultural amenities, and pedestrian-oriented commercial services. The special qualities of the *University Area* are built on a foundation of individual neighborhoods and commercial districts closely linked to the activity and development of the University of Arizona.

Demographic and housing characteristics in the *University Area* are strongly influenced by the large population of students (over 30,000) attending the UA. In 1988, more than 50 percent of all *University Area* residents were between 20 and 44 years of age, and more than 50 percent of all *University Area* residents rented their homes.

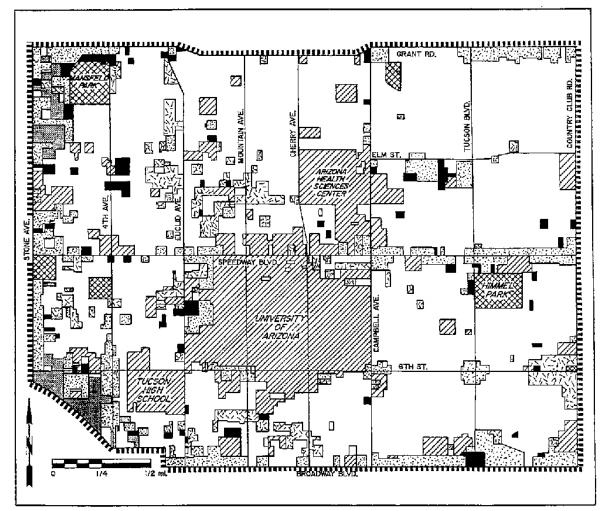
Land uses in the *University Area* (Map 2) have developed around a square mile "gridiron" system of major streets surrounding low-density residential subdivisions. Over time, intensified development in the UA campus vicinity has resulted in the establishment of the University of Arizona regional activity center, a relatively compact area of residential, commercial, educational, and recreational uses.

Neighborhoods which surround the UA activity center (Map 3) have retained their historic charm and residential vitality. These neighborhoods, in combination with historic landmarks such as the University's Old Main Building, and pedestrian-oriented commercial districts such as Fourth Avenue, serve to enrich the spirit of place which characterizes the *University Area*.

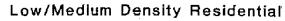


(December 13, 2011, Resolution 21835, revised Map 1)

Map 2: General Land Use



Legend







Moderate/High Density Residential



Public/Institutional

Industrial



Parks/Open Space

Office/Commercial

Vacant

Note: Land use on University of Arizona Property is guided by the policies of the UA Comprehensive Campus Plan adopted by the Arizona Board of Regents in 1988

History

The UA was founded in 1885 as Arizona's first and only land grant college. Following the establishment of the UA campus and the extension of a trolley line east of Downtown Tucson, residential neighborhoods began to develop and eventually surround the original campus site. As the UA campus developed, so did the need for additional land to serve a growing student population. Extensive University land acquisition in the 1960's and 1970's resulted in the establishment of the University Medical Center and McKale Arena as well as the loss of numerous residences from the surrounding neighborhoods.

In 1980, the Mayor and City Council adopted the *University District Plan* to guide land use in the neighborhoods surrounding the UA campus. Between 1980 and 1988, City of Tucson neighborhood plans were adopted for the West University, Sam Hughes, and Blenman-Vista neighborhoods, and a portion of the West University neighborhood was granted historic zoning status under the City's Historic District and Landmark Zone Ordinance. During the same period, National Historic Districts were established in the Iron Horse Expansion Neighborhood and portions of the West University Neighborhood and University of Arizona campus.

Shortly following the adoption of the *University District Plan*, the University of Arizona began to lay the groundwork for the establishment of their own plan to guide the long-term development of the campus within a defined planning area. The *Comprehensive Campus Plan* was adopted by the Arizona Board of Regents in 1988 with substantial input from neighborhood residents and the general public. In addition to providing an organized framework for land use and transportation system development, the *Campus Plan* includes measures designed to improve compatibility between the UA and the surrounding neighborhoods of the University Area. The *Campus Plan* was most recently updated in 2009.

(December 13, 2011, Resolution 21835, included reference to 2009 Campus Plan update)

The City of Tucson's 1989 *University Area Plan* is the logical extension of the 1980 *University District Plan*, which sought to "maintain the neighborhoods in the University District as healthy residential areas". Since 1980, numerous changes have taken place within the plan area. These include residential infill projects, major street development, and the adoption of the *Comprehensive Campus Plan* by the University of Arizona.

Currently, UA campus development is continuing under the guidance of the *Campus Plan*. A number of University Area neighborhoods have matured to the point where many properties are now eligible for historic designation at the national or local levels. Strong gains have been made in the preservation and enhancement of the University Area's historic development and vitality, often through the innovative combination of public, private, and neighborhood efforts. Perhaps most importantly, planning policy based on organized citizen involvement is now recognized as an essential tool for guiding both public and private development in the community.

The City of Tucson's *University Area Plan* has been established for an area surrounding but not including the main campus of the University of Arizona. Land use and development on UA property is guided by the policies of the University's *Comprehensive Campus Plan*, adopted by the Arizona Board of Regents in 1988, and most recently updated in 2009.

The *University Area Plan* recognizes the importance of the *Comprehensive Campus Plan*, and seeks to enhance coordination between the policies of the two plans in the best interests of University Area neighborhoods and the community of Tucson.

The *University Area Plan* provides general guidance for (non-campus) land uses throughout the University Area, while three adopted neighborhood plans (*West University, Blenman-Vista,* and *Sam Hughes*) offer more specific direction for land use in each respective neighborhood (Map 3). While the policies of the *University Area Plan* and the three neighborhood plans are intended to work together, the neighborhood plans will be controlling where they provide more specific policy direction than the *University Area Plan*.

(December 13, 2011, Resolution 21835, modified wording of the previous sentence, but maintained the intent)

The *University Area Plan* will play a key role in the review of new development in the University Area. The Mayor and City Council will make decisions on specific land use proposals based on the direction established by the *University Area Plan*, adopted neighborhood plans, and the professional recommendations of City staff, as well as input from the Planning Commission, registered neighborhood associations, and the general public.

(December 13, 2011, Resolution 21835, changed 'Citizen's Advisory Planning Committee' to 'Planning Commission')

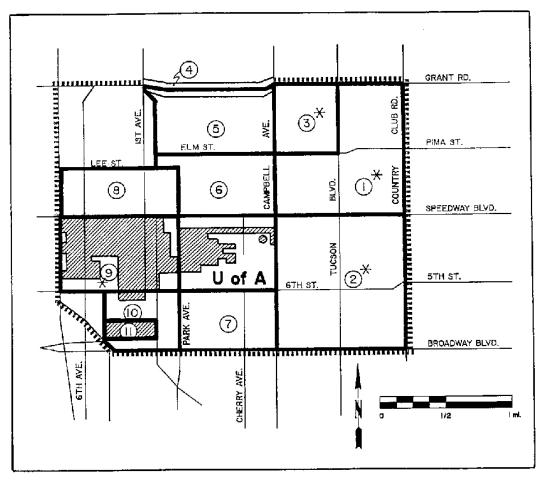
Adopted Policies and Recommendations

SECTION 1: OVERALL GOALS OF THE UNIVERSITY AREA PLAN

- 1. Recognize distinct neighborhoods in the University Area, and support those changes which protect and enhance the character, identity, and residential quality of life in these neighborhoods.
- 2. Promote cooperation between neighborhoods, private developers, the City of Tucson, and the UA to ensure that new development is sensitive to local neighborhood concerns and supportive of adopted city-wide policies.
- 3. Recognize the nature and potential of the University and its immediate surroundings as a relatively compact, pedestrian-oriented regional activity center, and work to strengthen the identity and quality of this area consistent with city-wide and neighborhood goals (see *City of Tucson General Plan*).

UNIVERSITY AREA PLAN

Map 3: Neighborhoods and Historic Districts



Registered Neighborhoods: (City of Tucson Citizen Participation Office) Legend

- (i) Blenman-Elm*
- (2) Sam Hughes^{\times}
- (3) Catalina Vista*
- (4) Grant Road
- 5 Jefferson Park
- 6 North University
- 7 Rincon Heights

- (8) Northwest University
- (9) West University *
- D Pie Allen
- Iron Horse
 - * Adopted Neighborhood Plan
 - National Historic District

SECTION 2: NEIGHBORHOOD CONSERVATION/HISTORIC PRESERVATION

Goal: Preserve and enhance the historic character and residential quality of life in University Area neighborhoods.

Policies:

- 1. Utilize the City's Historic District and Landmark Zone Ordinance to designate and protect local historic resources, including those properties which are listed on the National Register of Historic Places and those which may be eligible for historic designation.
- 2. Utilize the City's adopted ordinances, plans, and guidelines (e.g., *Tucson Land Use Code*, *University Area Plan*, *Roadway Development Policies*) to protect neighborhood perimeters from the intrusion of noncompatible uses.
- 3. Support the continued vitality of established pedestrian districts (Map 4), including those areas such as Fourth Avenue which provide historic and cultural value to the University Area and the City.

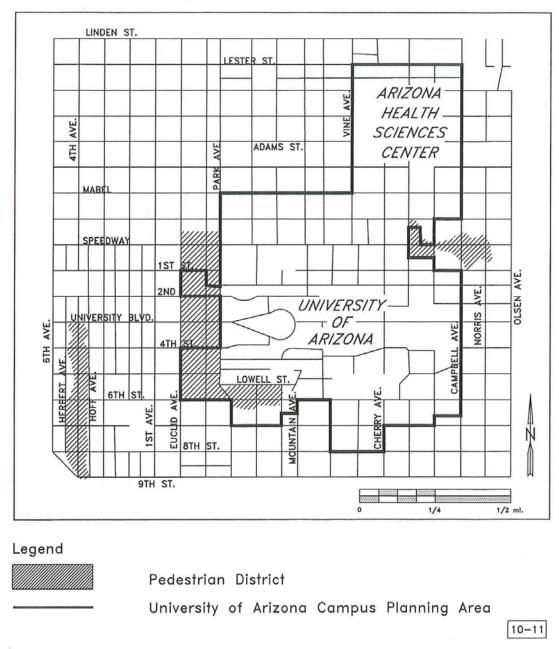
(December 13, 2011, Resolution 21835, Policy 2.3, changed 'pedestrian commercial districts' to 'pedestrian districts')

- 4. Support new cooperative efforts between the City of Tucson, the University of Arizona, and registered neighborhood associations to:
 - 4.1 Encourage the preservation of all properties undergoing historic survey until final eligibility is determined;
 - 4.2 Protect designated and potentially eligible historic properties from demolition or neglect; and
 - 4.3 Assist in the relocation of displaced neighborhood commercial services to pedestrian districts (Map 4) and other appropriate locations within the University Area.

(December 13, 2011, Resolution 21835, Policy 2.4.3, changed 'pedestrian commercial districts' to 'pedestrian districts')

- 4.4 Achieve the objectives of the above policies (4.1 4.3) through the continued revision of City Codes, and through the establishment of rehabilitation funds, preservation easements, and revolving loan programs.
- 5. Work to ensure the timely implementation of approved development projects so as to minimize disruption to neighborhood residents and businesses.
- 6. Recommend against the granting of parking variances which may produce unacceptable levels of on-street parking, noise, or through-traffic in residential areas (see Transportation Policies, Section 4).

University Area Plan Map 4: Pedestrian Districts



(December 13, 2011, Resolution 21835, revised Map 4 to replace 'pedestrian commercial districts' with' pedestrian districts'; show new UA campus planning boundaries; and show entire West University Transition Area as a pedestrian district)

SECTION 3: LAND USE AND DEVELOPMENT

Goal: Support new development which serves to enhance the character and quality of University Area neighborhoods.

SECTION 3.A: GENERAL POLICIES:

- 1. Strongly encourage the development of vacant property throughout the University Area to complement the existing scale, character, and identity of the surrounding neighborhood.
- 2. Encourage the retention of contributing historic buildings and viable residential structures by including them as integral components of new development.
- 3. Support new development on the perimeter of residential areas which serves to protect and enhance the quality of life for neighborhood residents.
- 4. Demonstrate sensitivity to surrounding uses in the design, location, orientation, landscaping, screening, and transportation planning of new development, as outlined in the General Design Guidelines (Section 8).
- 5. Utilize Defensible Space Guidelines (Section 9) in the design of new development.
- 6. Builders and developers of proposed projects which require City of Tucson rezoning approval are encouraged to consult in the early stages of project planning with representatives of neighborhood associations registered with the City of Tucson Citizen Participation Office:
 - 6.1 The City of Tucson shall provide public and neighborhood notification of rezonings and other land use changes in compliance with adopted standards and procedures.
 - 6.2 Developers are strongly encouraged to notify and offer to meet with neighborhood associations and residents within 300 feet of a proposed development site in the early stages of rezoning case review to provide a summary of the proposed project.
 - 6.3 In rezoning cases where specific traffic impacts from new development are uncertain, a developer-funded traffic impact study may be required at the discretion and approval of the City of Tucson Traffic Engineer.
- 7. Encourage the City of Tucson Citizen Participation Office to explore the use of public access cable television, supplemental newspaper advertising, and other means to provide additional early public notice of proposed development projects.

SECTION 3.B: NEW RESIDENTIAL DEVELOPMENT

Subgoal: Support new residential development which provides a wide range of housing types to meet the diverse needs of University Area residents while serving to enhance the stability of neighborhoods and schools.

Policies:

1. Except in the West University Transition Area, encourage residential infill which is compatible with neighborhood scale, density, and character, as outlined in the General Design Guidelines.

(December 13, 2011, Resolution 21835, Policy 3.B.1, added 'Except in the West University Transition Area')

- 2. Under the guidance of the General Design Guidelines, provide for residential development in appropriate locations:
 - 2.1 Low density (1-6 units per acre) residential development is appropriate in the interior of established single-family residential areas.
 - 2.2 Except in the West University Transition Area, medium density (7-14 units per acre) residential development is appropriate in conformance with the Flexible Lot Development (FLD) provision of the *Land Use Code*, or where vehicular access is provided to an arterial or collector street and vehicular traffic is directed away from the interior of low density residential areas.

(December 13, 2011, Resolution 21835, Policy 3.B.2. 2, added 'Except in the West University Transition Area'; and changed Residential Cluster Project to Flexible Lot Development)

2.3 Except in the West University Transition Area, high density (15 or more units per acre) residential development is appropriate in conformance with the FLD provision of the *Land Use Code*, or in conformance with the following criteria:

(December 13, 2011, Resolution 21835, Policy 3.B.2.3, added 'Except in the West University Transition Area', and changed RCP to FLD)

- 2.3.1 The site is surrounded by predominantly medium/high density residential or nonresidential development;
- 2.3.2 Vehicular access is provided to an arterial or collector street, and vehicular traffic is directed away from the interior of low density residential areas;
- 2.3.3 Development includes a well-defined pedestrian system linked to the public sidewalk system, convenient access to transit facilities, and secure bicycle parking areas; and

- 2.3.4 Where appropriate, development includes integrated neighborhood commercial services (e.g., grocery market, cafe, florist) oriented to a local pedestrian clientele (see Mixed Use Development Policies, Section 3.D).
- 2.4 Support new residential development in the West University Transition Area in accordance with the policy direction provided in the West University Neighborhood Plan.

(December 13, 2011, Resolution 21835, added new Policy 2.4)

3. Explore the provision of incentives to encourage compatible residential infill development. Such measures may include fee waivers and tax credits for new residential development, while avoiding the use of "density bonus" provisions, except in conformance with the FLD provision of the *Land Use Code*.

SECTION 3.C: OFFICE/COMMERCIAL DEVELOPMENT

Subgoal: Support the development of new commercial and office activities which complement the scale and character of neighborhoods and commercial districts in the University Area.

Policies:

1. Support the maintenance and intensification of neighborhood and UA campus-oriented commercial services (under the guidance of Office/Commercial Development Policies 3-3.3) in the following established pedestrian districts:

-Speedway/Campbell -Sixth Street, Park to Santa Rita -Fourth Avenue Shopping District -Park/Speedway -West University Transition Area

Note: Pedestrian Districts are illustrated on Map 4.

(December 13, 2011, Resolution 21835, Policy 3.C.1., changed 'pedestrian commercial districts' to 'pedestrian districts'; and changed 'University Blvd./Tyndall' district to 'West University Transition Area' district)

- 2. Support the development of concentrated centers of pedestrian-oriented commercial/office activity through the following means:
 - 2.1 Discourage the establishment or extension of strip commercial development.

2.2 Recommend against rezonings or changes in development plans which include new drive-through facilities, except as provided for in adopted neighborhood plans.

(December 13, 2011, Resolution 21835, Policy 3.C.2.2, added 'except as provided for in adopted neighborhood plans')

- 2.3 Encourage the consolidation of adjacent development parcels in order to provide integrated circulation and access while reducing the number of vehicular curb cuts along the street.
- 2.4 Encourage the establishment of a well-defined pedestrian system linking adjacent uses, secure bicycle parking areas, and convenient access to transit facilities, as integral components of new office/commercial development.
- 3. Consider the special characteristics of individual neighborhoods and adopted neighborhood plan policy in the review of rezoning cases involving the conversion of residential uses to nonresidential uses. Characteristics to be evaluated include:

-adjacent uses and zoning
-existing land use patterns
-traffic, noise, and visual impacts of the proposed development
-historic significance and physical condition of structure(s)
-viability of continued residential use

- 3.1 Consider the conversion of residential uses on arterial streets to residentiallyscaled office uses under the guidance of the General Design Guidelines (Section 8) and through the analysis of the characteristics outlined in Office/Commercial Development Policy 3.
- 3.2 Consider the conversion of residential uses on arterial streets to commercial uses under the guidance of the General Design Guidelines (Section 8) and through the analysis of the characteristics outlined in Office/Commercial Development Policy 3, and in conformance with the following criteria:
 - 3.2.1 Adjacent uses and zoning are commercial;
 - 3.2.2 Sufficient lot depth exists to provide adequate buffering, landscaping, and on-site circulation and parking in compliance with City of Tucson standards; and
 - 3.2.3 Vehicular access is provided to an arterial or collector street, and vehicular traffic is directed away from the interior of residential areas.

- 3.3 Recommend against the conversion to nonresidential use of residentiallyzoned properties abutting Fifth-Sixth Street, except as provided for in adopted neighborhood plans.
- 3.4 Consider the conversion of residential to commercial uses on Park Avenue in the Speedway Pedestrian District under the guidance of the General Design Guidelines (Section 8), through the analysis of the characteristics outlined in Office/Commercial Development Policy 3 and in conformance with the following criteria:
 - 3.4.1 The proposed site design provides well-defined pedestrian and bicycle access and demonstrates that the proposed commercial use serves the surrounding University community.
 - 3.4.2 The proposed site design is sensitive to adjacent residential uses in terms of screening, landscaping, access and traffic circulation.

Vehicular access is provided only to Park Avenue.

(June 10, 1991, Resolution #15693, UAP, Office/Commercial Policy 3.4)

- 3.5 Consider the conversion of residential uses to parking on 422 and 428 North Martin, in order to provide parking for commercial uses located northeast of the amendment site, on 6th Street between Martin Avenue and Campbell Avenue. Development is to be consistent with *University Area Plan* General Design Guidelines (Section 8), Office/Commercial Policy 3, the direction of the University *Campus Plan*, and the following criteria:
 - 3.5.1 Primary vehicular access is oriented towards the arterial.
 - 3.5.2 Development includes pedestrian access throughout the site, including landscaping of pedestrian facilities.
 - 3.5.3 University input and comment is provided as a part of any rezoning submittal.
 - 3.5.4 A narrow intense vegetative buffer is placed on the south side of the parking lot.

(February 24, 2003, Resolution #19520, UAP, Office/Commercial Policy 3.5)

3.6 Refer to the West University Neighborhood Plan for policy direction that applies to the West University Transition Area.

(December 13, 2011, Resolution 21835, added new Policy 3.C.3.6)

SECTION 3.D: MIXED USE DEVELOPMENT

Subgoal: Support carefully designed and located mixed use development as a viable means to integrate housing, employment, shopping, and related activities in a relatively compact pedestrian-oriented area, consistent with regional activity center policy (*General Plan*, August 6, 2001, Element 2, Policy 6.13).

Policy:

Support the careful integration of residential and nonresidential development in areas which are predominantly high density residential or nonresidential, under the guidance of the General Design Guidelines (Section 8) and in conformance with the following criteria:

1. Except in the West University Transition Area, vehicular access is provided to an arterial or collector street, and vehicular traffic is directed away from the interior of residential areas;

(December 13, 2011, Resolution 21835, Policy 3.D.1., added 'Except in the West University Transition Area')

- 2. Commercial activity is located at the street level, and is connected to the public sidewalk system;
- 3. Tenant mix offers goods and services oriented to local residents and compatible with the neighborhood; and
- 4. Development includes a well-defined pedestrian system linked to the public sidewalk system, convenient access to transit facilities, and secure bicycle parking areas.

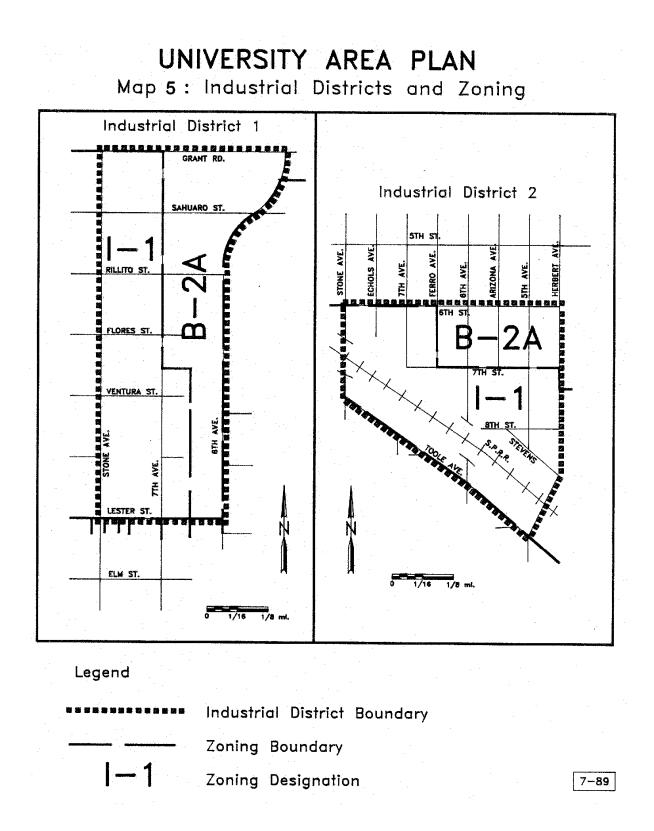
SECTION 3.E: INDUSTRIAL DEVELOPMENT

Subgoal: Support the maintenance and development of light industrial, commercial, and mixed use development in identified districts as permitted by current zoning.

Policies:

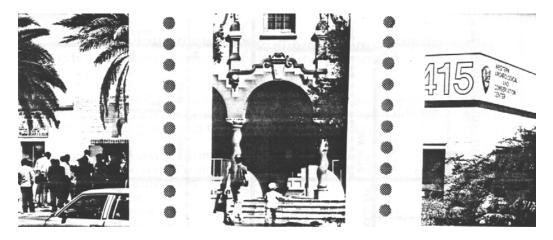
- 1. Recognize two established districts of predominantly commercial/industrial use in the University Area (Map 5), and encourage the upgrading and sensitive redevelopment of these areas:
 - 1.1 Industrial District 1 is bounded by Lester Street, Stone Avenue, Sixth Avenue, and Grant Road. Support the development and upgrading of commercial and light industrial uses as permitted by current zoning and under the guidance of the General Design Guidelines (Section 8).

- 1.2 Industrial District 2 is bounded by Toole Avenue, Herbert Avenue, Stone Avenue, and Sixth Street. In conjunction with the development of the Tucson Arts District and Fourth Avenue Shopping District, encourage the establishment of artists housing and studio space and arts-related commercial/industrial uses in District 2.
- 2. Maintain existing commercial zoning (Map 5) for properties at the perimeter of industrial Districts 1 and 2 to provide a transitional buffer between industrial uses at the district core and residential uses in the surrounding neighborhoods.
- 3. Discourage rezonings to permit new industrial uses on land which is currently zoned for residential or commercial uses.
- 4. Encourage both new and existing industrial development in the University Area to comply with federal, state, and local guidelines ensuring that:
 - 4.1 Noise, fumes, lighting, and other negative impacts are not extended off-site;
 - 4.2 Any potentially noxious or hazardous materials, activity, and/or byproducts are separated from the environment in a safe and lawful manner; and
 - 4.3 Adequate pollution control and monitoring, emergency evacuation and containment procedures are established.



SECTION 3.F: PUBLIC/SEMI-PUBLIC DEVELOPMENT

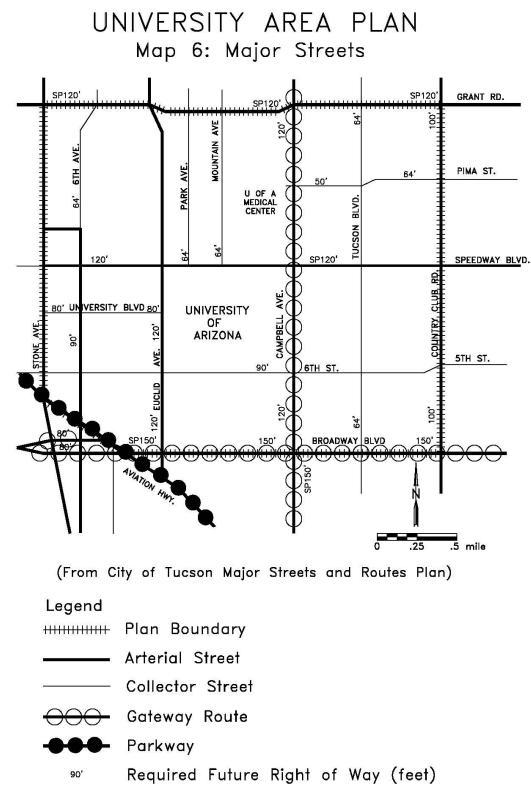
Subgoal: Recognize the important role of public and semi-public uses, and encourage the development of these uses in a manner which is compatible with the character and quality of University Area neighborhoods.



Policies:

- 1. Encourage the maintenance and enhancement of existing public and semi-public uses such as libraries, schools, parks, churches, social and cultural facilities.
- 2. Support the development of new public and semi-public uses which are compatible with the physical environment and social needs of the University Area neighborhoods.
- 3. Demonstrate sensitivity in the design and location of new public facilities and open spaces through the guidance of the General Design Guidelines (Section 8) and local neighborhood input.
- 4. Encourage public development which supports city-wide planning policy and complies with locally adopted ordinances and guidelines.
- 5. Support the inclusion of neighborhood amenities (e.g., useable open space, recreational facilities, public art) in the development of new public and semi-public facilities. Such amenities should be coordinated with input from local neighborhoods.

Note: See University of Arizona Policies 2 and 11 (Section 7).



(December 13, 2011, Resolution 21835, revised Map 6)

SECTION 4: TRANSPORTATION

Goal: Encourage the development of a multi-modal transportation system which is sensitive to neighborhood and regional concerns.

Policies:

- 1. Ensure neighborhood participation in roadway project design through the adopted ordinances and policies of the City of Tucson.
- 2. Undertake joint City/University efforts to design and implement multi-modal streetscape designs and neighborhood buffer treatments for the following streets providing access to the University of Arizona regional activity center:

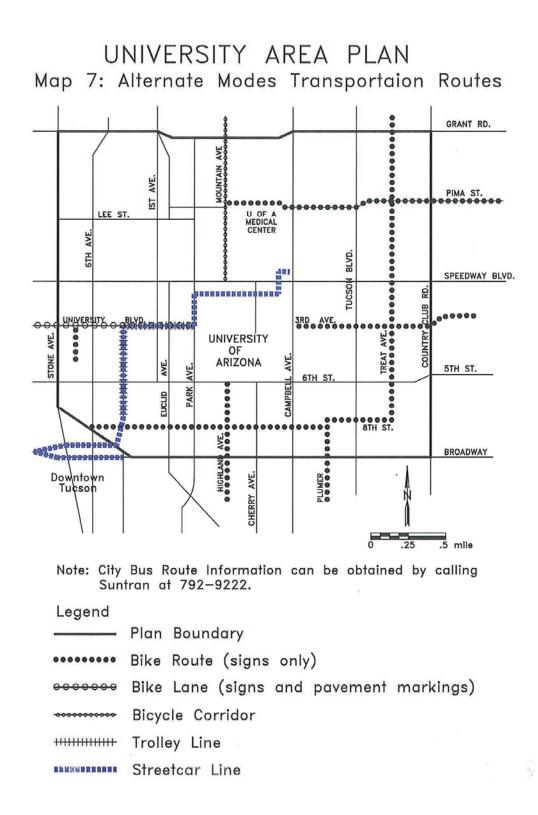
Highland Avenue from Sixth Street to Broadway
Mountain Avenue from Speedway to Grant Road
Speedway Boulevard
Park Avenue
Euclid Avenue
Campbell Avenue
Sixth Street
University Boulevard

- 3. Beginning in the earliest stages of roadway planning and development, ensure that the following actions are taken under the guidance of the City's adopted *Roadway Development Policies*, the *General Plan*, and public input:
 - 3.1 Inventory and evaluate the impacts of proposed roadway development on historic resources, neighborhood landmarks, pedestrian circulation and safety, noise levels, air quality, and other elements which determine residential quality of life.
 - 3.2 Mitigate the impacts of proposed roadway development on neighborhoods through the preservation of historic structures and viable residences, the development of frontage roads, street closures, noise walls, landscaped buffers and recreational amenities, acquisition of entire properties on one side of the street (as opposed to partial takings from both sides), and variations in roadway alignment and streetscape design as appropriate to enhance the quality and character of each neighborhood.
 - 3.3 Maintain and enhance communication among City officials, roadway project consultants, neighborhood organizations, property owners, and residents.
 - 3.4 Mitigate any existing or potential drainage problems.

- 4. Mitigate the impacts of traffic from the proposed Broadway Corridor and Aviation Parkway projects on neighborhood streets, residences, and businesses.
- 5. Encourage timely funding for the advance purchase of private properties to be utilized in future roadway development projects.
- 6. Work to ensure the timely implementation of approved roadway projects so as to minimize disruption to area residents and businesses.
- 7. Mitigate the impacts of non-resident parking demand in neighborhoods, and support efforts to address parking issues in commercial districts such as Fourth Avenue through the following means:
 - 7.1 Expand the utilization of the Residential Parking Permit program where appropriate to ensure an adequate supply of residential parking and address the special parking needs of residents.
 - 7.2 Encourage the implementation of organized circulation and parking improvements in cooperation with the City of Tucson, the University of Arizona, and University Area businesses and residents.
- 8. Design and locate public and private parking facilities so as to mitigate traffic and visual impacts on surrounding residential areas.
- 9. Support the continued development of alternate modes transportation facilities throughout the University Area, including the expansion of existing transit, bicycle, and pedestrian access to the UA regional activity center. For example, support the implementation of the proposed Mountain Avenue Bicycle Corridor demonstration project. (Map 7)
- 10. Support the enhancement of physical access between the UA, Fourth Avenue, and Downtown Tucson, while maintaining or reducing volumes of auto traffic. For example, encourage the continued development of trolley and/or streetcar service connecting the UA with Downtown Tucson via University Boulevard and Fourth Avenue.

(December 13, 2011, Resolution 21835, Policy 4.10, added 'and/or streetcar)

11. Undertake a coordinated City-University transportation study to develop a balanced multi-modal transportation network which enhances travel efficiency to the UA regional activity center while reducing impacts of auto traffic on surrounding neighborhoods. This *Plan* would update the 1983 *Joint Comprehensive Circulation Study* (Barton-Aschman).



(December 13, 2011, Resolution 21835, revised Map 7 – added streetcar line)

SECTION 5: ENVIRONMENT

Goal: Maintain and enhance the environmental quality of the University Area, in support of city-wide and regional efforts.

Policies:

- 1. Support measures throughout the University Area designed to:
 - 1.1 Improve air quality in the community by encouraging the development of alternate modes of transportation and pedestrian-oriented regional activity centers (CP Section 2, Policy 5).
 - 1.2 Regulate and control airborne dust and pollen.
 - 1.3 Maintain high standards of water quality through the continued identification, monitoring, and control of potential sources of surface and groundwater pollution.
 - 1.4 Regulate and control noise and light pollution.
 - 1.5 Monitor and control the transportation, storage, and disposal of toxic waste.

Note: See Industrial Development Policy 4 (Section 3.E), and UA Policy 8 (Section 7).

- 2. Utilize the *City of Tucson Floodplain Ordinance* and additional flood management guidelines to:
 - 2.1 Protect the safety of residents and properties in the University Area.
 - 2.2 Encourage the maintenance of open spaces adjacent to drainageways and natural wash areas for a combination of scenic, pedestrian/bicycle circulation, and flood control purposes.
 - 2.3 Protect and enhance the condition and appearance of all drainageways and any remaining natural wash areas (CP Section 3, Policy 2).
- 3. Encourage the use of drought-tolerant and low pollen-producing plants in the landscaping of new development. Landscaping should be compatible in scale, character, and use pattern with established neighborhood landscape/streetscape themes.
- Note: The City of Tucson *Development Standards*, Section 9-06.0 contains an updated list of drought-tolerant landscaping plants. Additional copies of this list may be obtained through the Southern Arizona Water Resources Association, at (602)881-3939.
- 4. Encourage the use of energy and water saving devices and the demonstration of energy-efficient technology in new development.

SECTION 6: PUBLIC SERVICES

Goal: Ensure an adequate supply of high quality public services to meet the current and projected needs of University Area residents and businesses.

Policies:

- 1. Support local crime prevention efforts through the implementation of Defensible Space Guidelines (Section 9) and the organization of neighborhood watch groups in cooperation with the City of Tucson Police Department.
- 2. Support local fire prevention and safety efforts through area-wide and neighborhood participation in public education and safety programs offered through the City of Tucson Fire Department.
- 3. Encourage government agencies and utility providers to coordinate the planning and development of projects in order to maximize efficiency while minimizing neighborhood disruption.
- 4. Encourage government agencies and utility providers to consult with representatives from registered neighborhood associations and Historic District Review Boards in the early stages of project planning to ensure that projects are designed to enhance the character and quality of each neighborhood.
- 5. Support the inclusion of neighborhood amenities (e.g., open space, recreational facilities, public art) in the development of new public facilities and infrastructure.
- 6. Wherever possible, place utility and service equipment underground or in other visually screened locations.
- 7. Maintain and expand recreational opportunities through the expansion of joint use agreements between the City Parks Department and the Tucson Unified School District.
- 8. Support governmental efforts to enhance public safety and health through street, alley, and drainageway maintenance and improvement, and the upgrading of solid waste disposal service. Specific improvements should be coordinated with input from registered neighborhood associations.

SECTION 7: UNIVERSITY OF ARIZONA

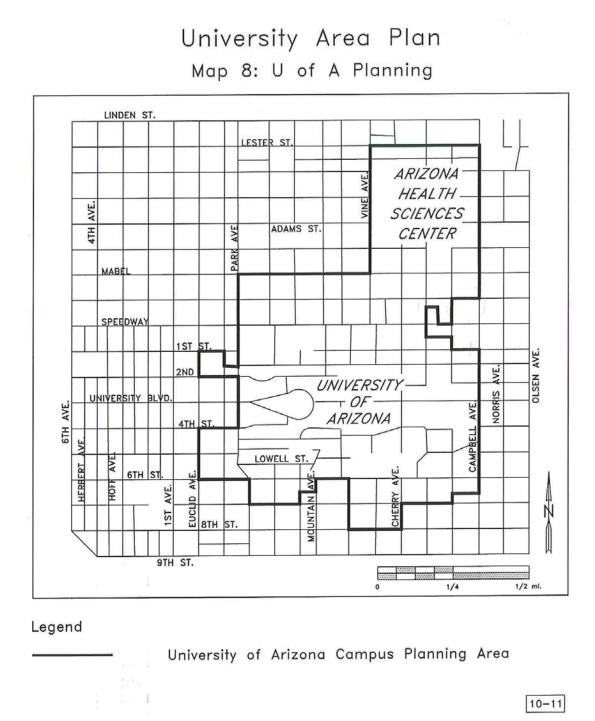
Goal: Recognize the importance of the University of Arizona and its immediate environs as a regional activity center (CP Section 2, Policy 5), and support cooperative efforts in the development of this activity center in a manner which protects and enhances University Area neighborhoods.

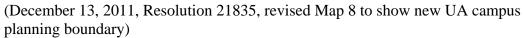
Policies:

- 1. Encourage the University of Arizona to comply with local plans, guidelines, ordinances, and regulations in the implementation of its projects.
- 2. Support continued efforts to coordinate adopted City policy with the policies of the University of Arizona *Comprehensive Campus Plan* in the development of streets and other infrastructure serving the campus, and in the development of new land uses at the campus planning area perimeter.
- 3. Support the implementation of the University's adopted *Comprehensive Campus Plan* policies to mitigate impacts on adjacent neighborhoods through the development of a transition zone or buffer at the campus perimeter (Map 8).
- 4. Encourage the University to recognize the value and significance of historic and potentially historic properties within the campus planning area (Map 8), and to preserve and enhance such properties wherever feasible in conjunction with new project planning and development.
- 5. Encourage the University to provide for student housing needs and related services within the boundaries of the campus planning area.
- 6. Enhance the physical and symbolic linkages between the University of Arizona and Downtown Tucson. For example, support the coordination of activities and linkages between the UA Fine Arts Complex and the Tucson Arts District.
- 7. Encourage the University to continue to support the development and utilization of alternate modes of transportation through the following means:

-expansion of Rideshare incentives;
-expansion of the Sun Tran bus pass program;
-implementation of further restrictions on parking;
-provisions for improved bicycle facilities; and
-implementation of the proposed campus shuttle system.

Note: See the Transportation Policies, (Section 4) for additional University-related transportation guidelines.





- 8. Encourage the University to continue to comply with federal, state, and local guidelines ensuring that:
 - 8.1 Noise, fumes, lighting and other negative impacts are not extended off-site;
 - 8.2 Any potentially noxious or hazardous materials, activity, and/or byproducts are separated from the environment in a safe and lawful manner; and
 - 8.3 Adequate pollution control and monitoring, emergency evacuation and containment procedures are established.
- 9. Encourage the University of Arizona to continue to comply with City and County stormwater detention policies to mitigate the impacts of University development on downstream areas.
- 10. Encourage the University to provide additional open space areas for groundwater recharge, water harvesting, and stormwater detention.
- 11. Investigate the establishment of a "greenbelt" system (Figure 1) at the UA campus perimeter to serve as a neighborhood buffer and visual amenity while providing new circulation and recreational opportunities (e.g., bicycle routes, seating and play areas, jogging trails).

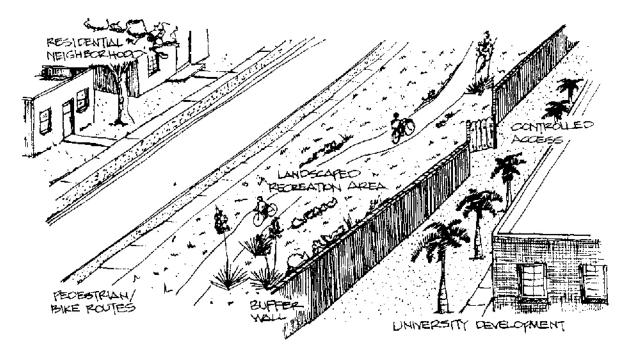


Figure 1: Perimeter greenbelt concept

SECTION 8: GENERAL DESIGN GUIDELINES

1. Complement surrounding development - Utilize compatible building materials, architectural style and ornamentation, setbacks, stepbacks, and variations in building height or mass to complement the scale and character of surrounding development and reduce the appearance of excessive height and bulk (Figure 2).

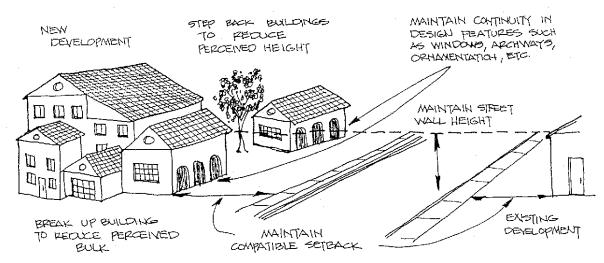


Figure 2: Elements of compatible scale and character

2. Reflect neighborhood character - New development should be carefully designed to reflect and enhance neighborhood identity, streetscape continuity, historic development patterns, neighborhood landmarks, predominant architectural and landscaping themes, and scenic or historic views (Figure 3).

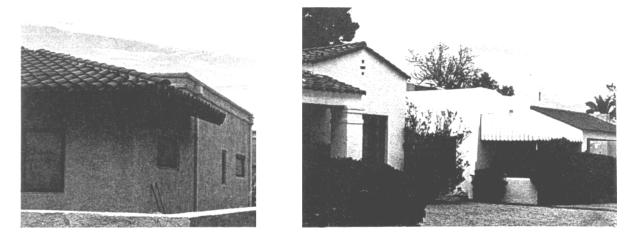


Figure 3: New residential infill development (left) reflects the predominant land use and architectural style of the surrounding neighborhood (right).

3. Buffer adjacent uses - Utilize appropriate screening techniques to mitigate the impacts of new development on adjacent uses. Design and orient drought-tolerant landscaping, masonry walls, earthen berms, outdoor lighting, trash storage areas and other elements to provide an attractive and effective barrier to undesirable access, noise, odor, or views (Figure 4). Limitations on the hours of operation for a commercial use may also be considered.

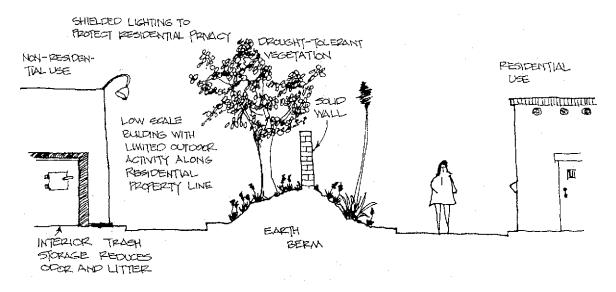


Figure 4: Appropriate buffering techniques

4. Respect historic development - Ensure compatibility between the character and appearance of new development and that of adjacent historic properties (Figure 5). New development should also demonstrate sensitivity to the broader context of a surrounding historic district.

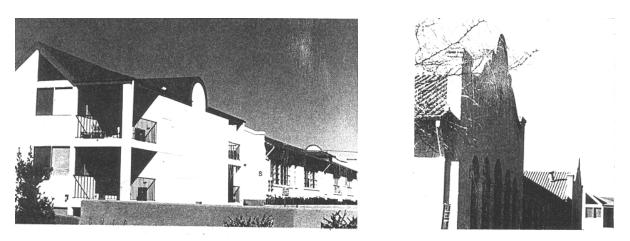


Figure 5: New apartment development (left) was designed to reflect the architectural character of the historic University Heights School (right).

- 5. Use drought-tolerant landscaping Encourage the use of drought-tolerant, and low pollen-producing plants in new landscaping projects. Landscaping should be compatible in scale, character, and use pattern with established neighborhood landscape/streetscape themes (see Environment, Policy 3).
- Note: The *City of Tucson Development Standards*, Section 9-06.0 contains an updated list of drought-tolerant landscaping plants. Additional copies of this list may be obtained through the Southern Arizona Water Resources Association, at (602)881-3939.
- 6. Screen private service areas Outdoor storage and trash collection areas should be screened from view of all adjacent streets and properties, and designed and located to minimize litter and odor. Trash dumpsters should be located within screened enclosures.
- 7. Preserve residential privacy Orient buildings, windows and balconies so as to protect the privacy of adjacent residents (Figure 6). Outdoor lighting should be directed away from adjacent residential uses to protect residential privacy, and shielded above the horizon to comply with regional light pollution guidelines.



Figure 6: Windows and balconies oriented to protect residential privacy.

- 8. Coordinate pathways and linkages Coordinate private pedestrian walkways and bicycle paths with public pedestrian and bicycle facilities.
- 9. Employ defensible space concepts Employ defensible space concepts in the design of new development (see Defensible Space Guidelines, Section 9).

Additional Guidelines for multi-family and nonresidential development:

10. Encourage alternate modes of transportation - Provide a well-defined pedestrian system linked to the public sidewalk system, convenient access to transit facilities, and secure bicycle parking areas. Where appropriate, integrate convenient, comfortable transit facilities into the design of new development.

- 11. Consolidate adjacent parcels Wherever possible, consolidate adjacent development parcels in order to provide integrated circulation and access, reduce the number of curb cuts along the street, and enhance screening and buffering between adjacent, noncompatible uses.
- 12. Coordinate information with architecture Integrate signs and other information systems into the overall design of new development in an architecturally coordinated and sensitive manner. Building addresses should be clearly visible from the public right-of-way.
- 13. Provide neighborhood amenities Wherever possible, incorporate neighborhood amenities such as open space, recreational facilities, and public art in new development and in the redevelopment of existing areas. Such amenities should be developed with input from local neighborhoods.
- 14. Provide active and interesting development at the street level Provide "fine-grained" design elements and pedestrian-oriented amenities and services at the street level to enhance streetscape vitality and visual interest. (Figure 7) Large expanses of unbroken wall surface or reflective glass should not occur at the street level.

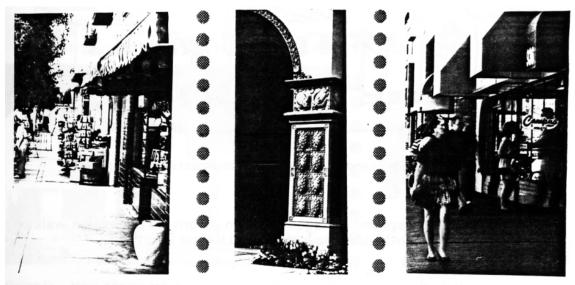


Figure 7: Fine-grained architectural treatment and a concentration of pedestrian-oriented activity at the street level serve to enhance streetscape and neighborhood vitality.

SECTION 9: DEFENSIBLE SPACE GUIDELINES

1. Create Territorial Spaces - Utilize design relationships and materials to establish the territorial limits of development. A combination of physical barriers (walls, fences, gates) and symbolic barriers (changes in surface grade or texture, landscaped areas, steps) can be used to define transition zones between public, semiprivate, and private spaces (Figure 8).

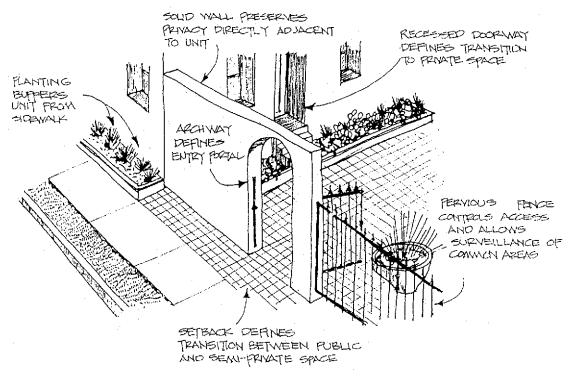


Figure 8: Territorial design methods

- 2. Provide surveillance opportunities Design and locate building units, paths, windows, stairwells, landscaping, doors, and elevators to facilitate the visual monitoring of non-private spaces within a development complex (examples: clustered building units, strategically located windows or wall openings, pervious fencing material). Design building corridors and openings to limit opportunities for human intrusion and concealment.
- 3. Assign open spaces Use territorial methods and design techniques to "assign" open space areas to a specific group of buildings or units so that strangers entering the space are easily identified and observed by building tenants and residents (Figure 9).
- 4. Control access Limit the number of public access points and views into semiprivate spaces, while designing entryways so as to permit the observation of people leaving and entering these "assigned" spaces.

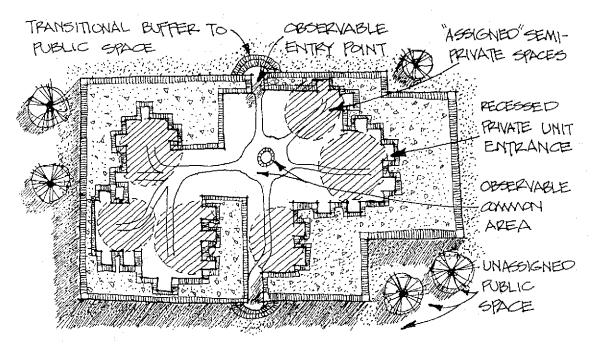


Figure 9: Utilize design techniques to "assign" open space to a specific cluster of units.

- 5. Design landscaping for safety Design and maintain landscaping to provide surveillance opportunities. Dense landscaping should not be located directly adjacent to pathways, windows, and doorways. In unassigned public spaces, landscaping should be trimmed to permit the surveillance of human activity in an area approximately 2-8 feet above surface grade.
- 6. Consider defensive landscaping Consider the establishment of dense, thorny vegetation (cactus, pyracantha, etc.) beneath windows and around fences to discourage intrusion.
- 7. Provide adequate lighting Utilize shielded outdoor lighting to increase night time visibility around doorways, windows, pathways, and landscaped areas. Lighting should be shielded above the horizon to comply with regional light pollution guidelines.
- 8. Post address numbers Building address numbers should be clearly visible from the public right-of-way. Address numbers may also be painted on building rooftops to facilitate identification from the police helicopter.
- 9. Coordinate development with the Tucson Police Department Encourage contact between developers and the City of Tucson Police Department in the review of development proposals for compliance with Crime Prevention Through Environmental Design (CPTED) principles. The Police Department Community Services Division can be reached by telephone at (602)791-4450.

SECTION 10: DEFINITIONS

- <u>Activity Center</u> (Regional): Identified in the City of Tucson *General Plan* as an area where mixed use development is permitted and/or encouraged. The purpose of activity center development is to combine housing, shopping, recreation, and other activities in a compact arrangement which serves to reduce auto dependence, air pollution, and the cost of public service delivery while providing interesting and exciting places in which to live, work, and play.
- <u>Alternate Modes of Transportation</u>: Means of transportation other than the private automobile. Alternate modes include buses, bicycles, van pools, shuttle trams, rail systems, and walking. The widespread use of alternate modes can serve to improve air quality and reduce traffic congestion, while also extending the functional capacity of existing public right-of-way.
- <u>Arterial Street</u>: Identified in the City of Tucson *Major Streets and Routes Plan* as a street which carries moderate to high volumes of traffic (12,000 or more average daily trips) across the City of Tucson, providing access to regional destinations and connecting to the interstate highway system.
- <u>Buffer</u>: The use of design elements such as masonry walls, landscaping, earth berms, building setbacks, and stepbacks to minimize the impacts of more intense development on adjacent, less intense uses.
- <u>Campus Planning Area</u>: Defined area (see Map 8) surrounding the main campus of the University of Arizona. The campus planning area is to be developed under the policies of the University's *Comprehensive Campus Plan* over a period of 20-30 years.
- <u>Collector Street</u>: Identified in the City of Tucson *Major Streets and Routes Plan* as a street which carries low to moderate volumes of traffic (3,000-12,000 average daily trips) between local neighborhood streets and major arterial streets.

(December 13, 2011, Resolution 21835, deleted definition of Commuter Arterial Street)

- <u>Comprehensive Campus Plan</u> (University of Arizona): A physical development guide for the UA campus planning area, including the UA main campus and the Arizona Health Sciences Center. The *Comprehensive Campus Plan* was adopted by the Arizona Board of Regents in 1988. It was revised in 2003, and updated in 2009.
- <u>Curb Cut</u>: Depressed portion of a vertical curb which is utilized for vehicular access. The elimination of curb and median cuts along major streets serves to enhance travel efficiency by reducing friction from vehicular ingress/egress.

<u>Density</u>: Number of dwelling units per acre (43,560 square feet)

<u>Low Density</u> - Average density of up to six units per acre. Low density housing consists primarily of single family detached residences, although duplex and townhome units on larger lots may be considered low density.

<u>Medium Density</u> - Average densities of 7-14 units per acre, including a variety of housing types such as single family homes on small lots, duplexes, townhomes, mobile homes, apartments, and condominiums.

<u>High Density</u> - Density of 15 or more units per acre. High density housing generally includes multi-story or densely developed apartments, condominiums, and townhomes.

<u>Defensible Space</u>: Defensible space is a term used to describe a series of physical design characteristics that maximize the control of human behavior, particularly crime, within a residential or nonresidential building complex. Defensible space is designed and organized to define the territorial limits of development and provide opportunities to monitor activity and control movement between public, semiprivate, and private zones of space.

<u>Public Spaces</u> - These are generally "unassigned" spaces which are available for public use on a 24 hour basis. Examples include public parks, perimeter open space, and city sidewalks.

<u>Semiprivate Spaces</u> - These are "assigned" spaces which provide a transition zone between public and private spaces. Examples include common open space, recreation facilities, corridors, and lobbies associated with a private building complex or cluster of buildings.

<u>Private Spaces</u> - These are spaces which are "assigned" to an individual building unit and accessible only at the discretion of the unit occupant. Examples include enclosed private yards, balconies, patios, and unit interiors.

Drought-Tolerant Vegetation: Plants which can survive in an arid environment (e.g., Sonoran Desert) with little or no supplemental watering after becoming established.

Earth Berm: A mound of earth utilized as a screen to undesirable views and/or noise. Earth berms are often supplemented with vegetation or low walls.

^{*} *The General Plan* was originally adopted as the "*Comprehensive Plan*" pursuant to the Tucson *Zoning Code* and, subsequently, the Tucson *Land Use Code*. The term "Comprehensive Plan (CP)" was changed to the "General Plan" by Ordinance 9517, which was adopted by Mayor and Council on February 12, 2001. This change in title does not affect the content of the Plan.

- <u>Fine-Grained</u>: Rich in detail, texture, and variety. Fine-grained building design emphasizes diversity, visual interest, and human scale.
- <u>Flexible Lot Development (FLD) Option:</u> The FLD provision of the *City of Tucson Land Use Code* provides flexibility in the development of residential projects which include consolidated open space and support community goals such as historic and archaeological preservation, the development of barrier-free or low income housing, and urban infill. The FLD may exceed standard residential densities subject to compliance with a number of specific development criteria, as outlined in Section 3.6.1 of the *Land Use Code*.

(December 13, 2011, Resolution 21835, changed name of 'Residential Cluster Project' to 'Flexible Lot Development Option', and changed 'Zoning Code' to 'Land Use Code')

- <u>Gateway Route</u>: Identified in the *Major Streets and Routes Plan* as a specially designated route linking major employment centers, shopping areas, recreation areas, and transportation centers, and which is traveled by large numbers of residents and visitors (generally greater than 30,000 average daily trips). Special regulations for Gateway Routes include additional landscaping and screening requirements.
- <u>General Plan</u> (City of Tucson): Regional plan and physical development guide for Tucson, adopted by the Mayor and City Council in 1979. The policies of the *General Plan* offer a framework for the development of more specific plans to guide land use, transportation, and housing in the City of Tucson. The General Plan referred to in this document was adopted on August 6, 2001.
- (December 13, 2011, Resolution 21835, added last sentence to the definition above)
- <u>Historic</u>: Property officially designated at the national, state, or local level as worthy of preservation based on specific criteria outlined for National Register of Historic Places nomination and/or that has been designated in compliance with the City of Tucson's Historic District and Landmark Zone Ordinance.
- <u>Natural Wash Area</u>: A drainageway and its immediate surroundings which have not been substantially altered in course or cross section except through natural processes. In the University Area sections of natural wash areas may include mature nonnative vegetation and minor man-made improvements.
- <u>Neighborhood Commercial Service</u>: Business which provides goods and/or services oriented to local neighborhood residents. Examples include small grocery markets, cafes, and specialty retail stores.
- <u>Pedestrian District</u>: Concentrated area of mixed-use development in which pedestrianoriented activities are facilitated and encouraged, while auto circulation and parking is generally restricted. (see Map 4)

(December 13, 2011, Resolution 21835, changed 'Pedestrian Commercial District' to 'Pedestrian District' and modified definition)

Regional Activity Center: (see Activity Center)

- <u>Roadway Development Policies</u>: The City of Tucson's official guidelines for the development of major street improvements, adopted by the Mayor and Council in 1986 and administered through the City of Tucson Department of Transportation.
- Scale: Size, height, shape, and setback in comparison to adjacent buildings, architectural elements, landscaping, and human form.
- <u>Street Level</u>: Elevation of a building or space which abuts the street and serves the users of the street and sidewalk (generally 0-10 feet above sidewalk grade).
- <u>Streetscape</u>: A combination of distinct physical elements and land use characteristics which define and characterize a contiguous segment of street frontage. Streetscape elements may include buildings, landscaping, lighting, benches, and the types of activities which occur in and along the street.
- <u>Streetwall</u>: Average height and setback of a segment of buildings which abut the street, particularly where a group of adjacent buildings are similar in scale.
- <u>Territorial Space</u>: Property belonging to or associated with a specific individual or group of individuals by virtue of grade change, access control, visual separation, and other design techniques which provide distinct definition to public, semi-public, or private spaces.
- Transit: Mass transportation such as buses, shuttle trams, trolleys, and light rail systems.
- <u>Unbroken Wall Surface</u>: Vertical building surface devoid of ornamentation, variation, or decoration. Particularly undesirable at the street level, as a monotonous visual impression can be created. Street level building surfaces may include windows and voids which permit views of interior spaces or activities, surface ornamentation, information, and/or artwork.
- <u>University Area</u>: 5.17 square mile area within the City of Tucson bounded by Stone Avenue on the west, Toole Avenue on the southwest, Broadway on the south, Country Club Road on the east, and Grant Road on the north. Property controlled by the University of Arizona, while located within the boundaries of the University Area, does not fall under the jurisdiction of the City of Tucson's *University Area Plan*.
- <u>University Area Plan</u>: Land use plan adopted by the Mayor and City Council to guide future development within the defined boundaries of the University Area, excluding property owned and controlled by the University of Arizona.

University of Arizona Comprehensive Campus Plan: (see Comprehensive Campus Plan)

<u>West University Transition Area:</u> The area bounded by Speedway Boulevard on the north, Park Avenue on the east, Sixth Street on the south, and Euclid Avenue on the west.

(December 13, 2011, Resolution 21835, added definition of West University Transition Area, and deleted University Area Public Agency Resource Directory)

WEST UNIVERSITY NEIGHBORHOOD PLAN

Este documento se publica en inglés solamente. Para solicitar asistencia en la traducción de este documento, las personas de habla hispana pueden comunicarse con el Departamento de Planeación y Servicios de Desarollo, llamando al 791-5500, o visitando sus oficinas ubicadas en el segundo piso del edificio County-City Public Works, con dirección 201 North Stone Avenue.

West University Neighborhood Plan

WEST UNIVERSITY NEIGHBORHOOD PLAN

Prepared by West University Neighborhood Association November 1981

MAYOR AND COUNCIL

Rodolfo C. Bejarano Roy B. Laos Lewis C. Murphy, Mayor Brent L. Davis George Miller

Charles Ford Tom Volgy

CITIZENS ADVISORY PLANNING COMMITTEE

Carol Dorsey Connie Maraschiello Donn Phillips Joe Scott, Ph.D. Lawrence D. Mann, Ph.D., Chair Margaret Blue Fred McDerment Priscilla Robinson Ben Shein

William J. Fisher, Ph.D. Joy Mills Larry Schloss Charles Wilson

WEST UNIVERSITY NEIGHBORHOOD COUNCIL

Betsy Snell, President Hope Lora, Vice President Earline MacKenzie, Recording Secretary Harry Rodriguez, Corresponding Secretary Evelyn Smith, Historian Bruce Dusenberry, Treasurer

PLANNING COMMITTEE

Carol Dorsey, Chairperson Linda Laird Frank Behlau

1

TABLE OF CONTENTS

Formal Action Profile/Related Plans Plan History Purpose Adopted Policies and Recommendations POLICY 1: NEIGHBORHOOD CONSERVATION POLICY 2: TRANSITION AREA POLICY 2: TRANSITION AREA POLICY 3: NEW RESIDENTIAL DEVELOPMENT POLICY 4: COMMERCIAL AND OFFICE DEVELOPMENT POLICY 5: PUBLIC IMPROVEMENTS POLICY 6: UNIVERSITY OF ARIZONA

MAPS

Map 1 – West University Neighborhood Plan Area

Map 2 – University Area Plan and West University Neighborhood Plan Areas

Map 3 – Transition Area Land Use Designations

Map 4A – Building and Massing, View from Speedway/Euclid, looking southeast Map 4B – Building and Massing, View from University/Euclid, looking northeast Map 5 – Land Use Map

APPENDIX

WUNP – Amendment History

(December 13, 2011, Resolution #21836, added Table of Contents, Transition Area Policy 2, and Appendix)

2

Formal Action

Mayor and Council:

February 1, 1982 - Resolution 11733 (Adoption) March 24, 1986 - Resolution 13561 (Amendment) October 12, 1987 - Resolution 14220 (Amendment) August 1, 1988 - Resolution 14564 (Update) November 28, 1988 - Resolution 14706 (Amendment) February 11, 1991 - Resolution 15586 (Amendment) September 14, 1992 - Resolution 16107 (Amendment) June 28, 1993 - Resolution 16335 (Amendment) April 14, 1997 - Resolution 17608 (Amendment) April 12, 1999 – Resolution 18264 (Amendment) January 12, 2004 – Resolution 19760 (Amendment) December 7, 2009 – Resolution 21449 (Amendment)

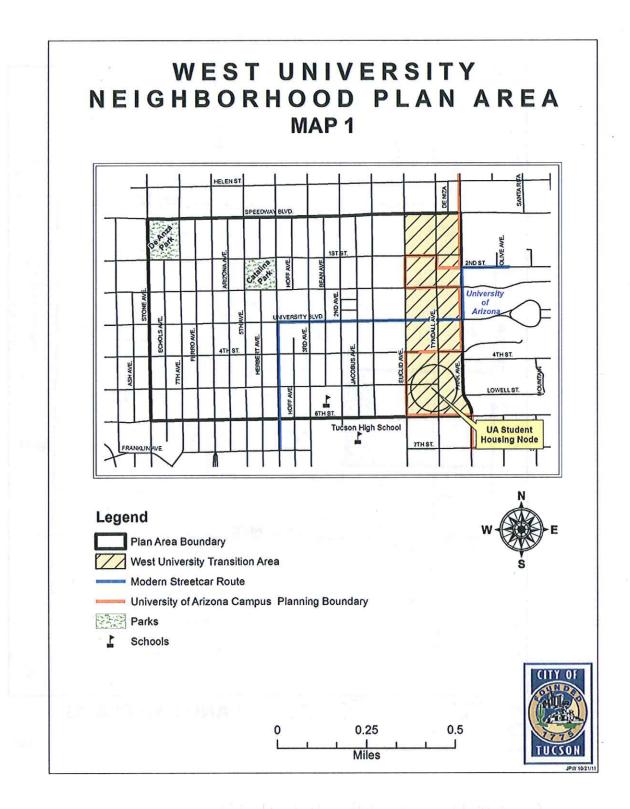
Hearings:

Mayor and Council February 1, 1982 March 24, 1986 October 12, 987 August 1, 1988 November 28, 1988 February 11, 1991 September 14, 1992 June 28, 1993 April 14, 1997 April 12, 1999 January 12, 2004 December 7, 2009 December 13, 2011 Citizens Advisory Planning Committee* December 1 & 2, 1981 March 5, 1986 September 2, 1987 July 6, 1988 November 2, 1988 January 16, 1991 August 5, 1992 April 7, 1993 March 5, 1997 (Planning Commission) March 3, 1999 (Planning Commission) December 3, 2003 (Planning Commission) October 7, 2009 (Planning Commission) November 2, 2011 (Planning Commission)

* The name of the Citizens Advisory Planning Committee was changed to the Planning Commission in 1995.

Profile/Related Plans

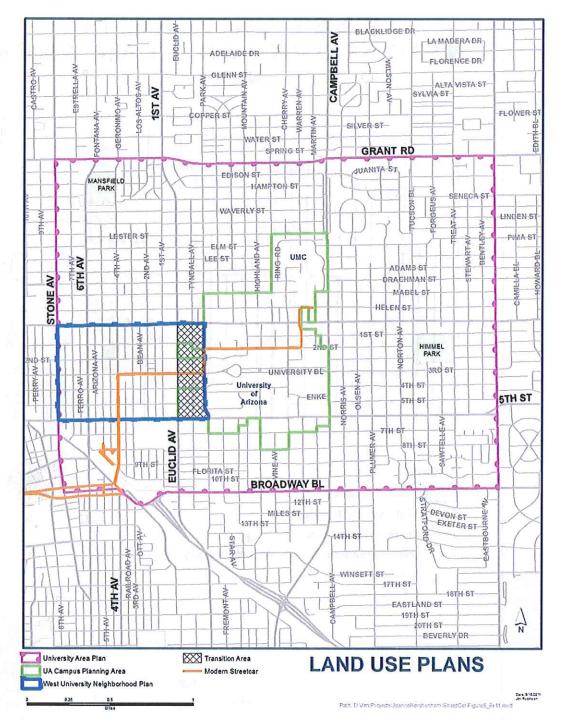
The *West University Neighborhood Plan* area is bounded by Speedway Boulevard on the north, Park Avenue on the east, Sixth Street on the south, and Stone Avenue on the west (see Map 1). It encompasses a 60-block area located approximately six blocks north of the Downtown Tucson area and immediately west of the University of Arizona (UA), and includes the northern portion of the Fourth Avenue commercial district. The West University plan area is approximately 0.36 square miles, and it is wholly located within the *University Area Plan* area (Adopted in 1989, see Map 2).



(December 13, 2011, Resolution #21836, updated Map 1)

4

MAP 2



(December 13, 2011, Resolution #21836, added Map 2)

5

The policies of the *West University Neighborhood Plan*, the *University Area Plan* and the City of Tucson's *General Plan*^{*} provide guidance for proposed land use changes in the West University Neighborhood. If there are policy contradictions, the West University Neighborhood Plan will be controlling where it provides the most specific direction.

Plan History

<u>University District Plan, 1970.</u> Prior to the adoption of the West University Neighborhood Plan in 1982, the 1970 University District Plan was used to guide land use planning in the West University area. The University District Plan assumed the UA would expand westward, and envisioned high-density apartments for UA students, and a mix of land uses across much of the neighborhood. Neighbors were concerned this plan would lead to the razing of many historic homes, and change the character of their neighborhood. To have a more active voice in neighborhood matters, they formed the West University Neighborhood Association (WUNA) in 1978, and began working toward achieving historic district status for the neighborhood.

At WUNA's urging, the *University District Plan* was revised in 1980. By then, the UA had limited its planned westward expansion to the area between Park and Euclid (i.e., the Transition Area), and the revised *University District Plan* reflected this. The 1980 *Plan* also emphasized preserving historic residential development. In 1980, WUNA's efforts led to most of the West University Neighborhood achieving National Historic District status. WUNA was also working to achieve listing as a local City of Tucson Historic District (i.e., the local Historic Preservation Zone or HPZ), which occurred in 1984.

<u>West University Neighborhood Plan, 1982.</u> WUNA also worked with city staff to draw up a new land use plan for the neighborhood. This led to the adoption, in 1982, of the West University Neighborhood Plan, which replaced the 1980 University District Plan as the land use planning document for the West University Neighborhood. The focus of the new Plan was to preserve and enhance the historic residential character of the neighborhood. This plan established a residential density cap of 40 units per acre in certain locations.

In the few years after the adoption of the 1982 *Plan*, there were several rezoning requests throughout the neighborhood, to allow residential structures to be converted to office and commercial uses. Redevelopment to higher intensity land uses was also getting underway in the Transition Area between Park and Euclid Avenues. At WUNA's request, the *West University Neighborhood Plan* was updated in 1988.

^{*} *The General Plan* was originally adopted as the "*Comprehensive Plan*" pursuant to the Tucson *Zoning Code* and, subsequently, the Tucson *Land Use Code*. The term "Comprehensive Plan (CP)" was changed to the "General Plan" by Ordinance 9517, which was adopted by Mayor and Council on February 12, 2001. This change in title does not affect the content of the Plan.

<u>West University Neighborhood Plan, 1988 Update</u>. The 1988 update maintained most of the policies in the 1982 *Plan*. Policies were added and/or revised to further restrict the conversion of residential structures to non-residential uses, limit building height throughout the neighborhood, and guide redevelopment in the Transition Area (between Speedway Boulevard and Sixth Street, and Park and Euclid Avenues). It was during this update that the 40-foot building height restriction in the Transition Area was added.

<u>West University Neighborhood Plan, 2011 Amendment.</u> Since the late 1980s, the Transition Area has been evolving into a higher-intensity mixed-use activity node, consistent with what would be expected next to a major university. A UA student housing node is near the southern end of the Transition Area, and the Main Gate commercial development is in the center of the Transition Area. Continued, higher-intensity infill development is expected, especially north of Main Gate and south of Speedway Boulevard.

In early 2010, the Mayor and Council directed staff to analyze policy issues and recommend changes that would facilitate infill development in the Downtown and University areas. Staff had long identified the 40-foot building height restriction and the density cap of 40 units pre acre in the Transition Area as problematic relative to urban intensity infill. The 2011 amendment removed the 40-foot building height restriction and the 40 units per acre density cap, and added a new policy section and design guidelines to guide the development of appropriate, mixed-use, pedestrian and transit-oriented urban infill in the Transition Area.

(December 13, 2011, Resolution #21836, added new section on Plan History)

Purpose

The goals of this plan are to

• Preserve and enhance the historic, residential character of the established neighborhood west of Euclid Avenue;

(December 13, 2011, Resolution #21836, added "historic" and "west of Euclid Avenue" to the above)

- Recognize the potential for land use changes associated with the planned implementation of the modern streetcar; and
- Promote transit-oriented infill development in the Transition Area (between Park and Euclid Avenues, and Speedway Boulevard and Sixth Street).

(December 13, 2011, Resolution #21836, added the second and third goals)

Adopted Policies and Recommendations

POLICY 1 - NEIGHBORHOOD CONSERVATION: Protect the residential character of the established neighborhood west of Euclid Avenue.

(December 13, 2011, Resolution #21836, added "west of Euclid Avenue" to the above)

Action Needed

- A. Utilize *Tucson's Historic District Ordinance* to protect the historic character of the West University Neighborhood.
- B. Preserve sound housing throughout the West University Neighborhood while implementing programs to improve deteriorated housing.
 - 1. Establish a housing rehabilitation cooperative in the West University Neighborhood that will sponsor and implement a series of self-help programs for neighborhood property owners and residents to minimize building rehabilitation costs.
 - 2. Encourage the use of currently available and future Federal, State and local housing rehabilitation and historic preservation programs by neighborhood residents (e.g., local emergency rehabilitation and weatherization programs).
 - 3. Aid and encourage owners and residents to improve and maintain their properties and contribute to an improved appearance for the neighborhood.
 - 4. Encourage owners of alley houses to upgrade the structures to make them an attractive part of the neighborhood.
 - 5. Except in the Transition Area, encourage voluntary downzonings throughout the neighborhood in areas where:

(December 13, 2011, Resolution #21836, added "Except in the Transition Area" to the above)

- a) Existing land use is inconsistent with present zoning;
- b) The stability and integrity of the neighborhood is threatened;
- c) Present zoning is inconsistent with the land uses specified on the Land Use Map, particularly in those areas designated "Maintain and Infill Low Density Residential and Related Services."

(December 13, 2011, Resolution #21836, changed name of Development Concept Map to Land Use Map)

Groupings of downzonings are encouraged in order to maximize their impact and assure efficient processing. 6. Discourage rezonings to nonresidential use or more intensive residential use in the areas designated as "low density residential" on the Land Use Map, except as provided for in Policy 4.A.1., which supports the conversion of residential structures to office uses along major streets, subject to certain criteria.

(December 13, 2011, Resolution #21836, changed Policy 3.A.1 to Policy 4.A.1, and added description of Policy 4.A.1 to the above)

7. Limit building heights west of Euclid Avenue to that allowed by zoning on August 1, 1988.

(December 13, 2011, Resolution #21836, deleted policies 1.B.7. - 9. Maintained Policy 1.B.10, renumbered it to Policy 1.B.7., and modified allowable building heights in the Transition Area – see Transition Area policy section)

- C. Develop and implement programs that will contribute to an increase in homeownership within the West University Neighborhood to promote neighborhood stability and reinvestment.
 - 1. Support the conversion of existing rental housing units to fee simple owneroccupancy, cooperative and condominium forms of ownership.
 - 2. Maintain and infill low density (l-15 units per acre) housing in appropriate locations as shown on the Land Use Map.
- D. Maintain the economic and ethnic diversity historically present in the West University Neighborhood.
 - 1. Provide a full range of recreational, educational and community service facilities to fulfill the needs of neighborhood residents.
 - 2. Support the continued presence of community-based organizations offering community service and recreational facilities.
 - 3. Support the continued presence of Roskruge Elementary School.
 - 4. Encourage the development of an agreement between the City of Tucson Parks Department and Tucson Unified School District #l to provide community recreational facilities and programs at Roskruge Elementary School.

9

- E. Improve the appearance and quality of the landscape within the West University Neighborhood consistent with the area's historic character.
 - 1. Improve, as economically feasible, the condition of the residential landscape.
 - 2. Encourage the selection and installation of plant materials that were historically used or are of similar appearance and scale of historically utilized plants to the neighborhood.

3. Encourage the selection and installation of plant materials that will not require excessive water or maintenance, especially when located in the public right-of-way.

POLICY 2 - TRANSITION AREA

The Transition Area is subject to the following policies and design guidelines. If there is a conflict between this section's policies and another part of the neighborhood plan, this section shall take precedent.

The Transition Area includes Areas 1, 2, and 3, as shown on Map 3. Areas 1 and 2 consist mostly of privately-owned property, while Area 3 consists mostly of property owned by the Arizona Board of Regents (ABOR). It is encouraged that the ABOR properties be developed consistent with the transit-oriented development (TOD) policies and design guidelines in this plan. Land uses encouraged in Areas 1, 2, and 3 are indicated in Policy A below. Maximum allowable building heights are indicated in Policy B below.

POLICIES

A. Land Use

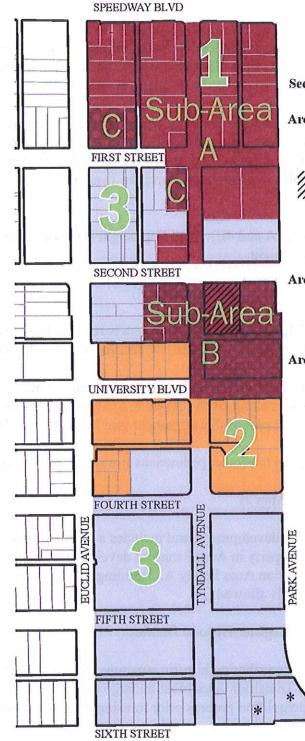
1. The following uses are considered supportive of TOD and are encouraged in Areas 1, 2, and 3. In addition, a use not listed below may be allowed if the Planning and Development Services Director makes a finding that the subject use is of the same intensity as the uses listed below.

Administrative and Professional Offices Alcoholic Beverage Services, including micro-breweries Civic Assembly Cultural Uses Day Care - Child Care Educational Uses Educational Use-Post-Secondary Entertainment Uses, including theaters **Financial Services** Food and Beverage Sales General Merchandise Sales Instructional School Lodging Medical Services - Outpatient Mixed Use (a combination of residential and other uses in this list) Parking Personal Services Residential, Attached Residential, Multi-Family Travelers' Accommodation

2. Allowable Special Transit-Oriented Development (TOD) Uses

Drive-thrus may be allowed as an accessory use and shall be designed so as not to interfere with pedestrian circulation.

MAP 3 TRANSITION AREA LAND USE DESIGNATIONS



See Transition Area Policy A for allowable land uses.

Area 1: Transit-Oriented Development (TOD) Area Includes Sub-Areas A, B, C Varied Heights - See Transition Area Policy B

Amended 12/7/2009, Resolution No. 21449, to allow 140 - foot high building in the northwest portion of the block bounded by Second Street, Park Avenue, University Boulevard, and the Tyndall Avenue alignment

Area 2:

Mixed Use Area Restricted Heights - See Transition Area Policy B

Area 3:

University of Arizona TOD Area Owned by ABOR, except *privately owned

Support TOD on privately owned parcels. Building height consistent with surrounding development - See Transition Area Policy B

B. Building Height

1. Area 1 - Transit-oriented Development (TOD) Area

Area 1 has three Sub-Areas, A, B and C (see Map 3). Allowable building heights are as follows:

- a. Sub-Area A: A variety of building heights, not to exceed 14 stories, is allowed, as per Maps 4A and 4B. Sidewalks will be designed to protect pedestrians from Speedway Boulevard and Euclid Avenue traffic.
- b. Sub-Area B (Maps 3, 4A and 4B): Building heights in this area are restricted to the existing zoning building height; except a building height not to exceed 14 stories is allowed in the northwest portion of the block bounded by 2nd Street, Park Avenue, University Boulevard, and the Tyndall Avenue alignment.
- c. Sub-Area C (see Maps 3, 4A and 4B): Building height is restricted to the existing zoning building height.
- 2. Area 2 Mixed Uses, Restricted Heights (see Map 3)
 - a. Unless otherwise noted, building height in this area is restricted to the existing zoning building height, and shall not exceed 40 feet for new development.
 - b. The properties at the northeast corner of Euclid Avenue and Fourth Street may be developed to four stories along Euclid Avenue, to align with the Geronimo Hotel, and six stories to the east of this alignment (see Maps 4A and 4B).
 - c. Sidewalks will be designed to protect pedestrians from Euclid Avenue traffic.
- 3. Area 3 UA TOD Area (see Map 3)

Area 3 consists mostly of UA development, and includes a couple of parcels not owned by ABOR. Private property in Area 3 may be developed with TODsupportive uses, as per Transition Area Policy A. Building height consistent with the surrounding development is allowed.

- C. Demolition Proposals, National Register Historic District
 - 1. A demolition proposal for a contributing historic structure located in the National Register District within the Transition Area must undergo the Historic Preservation Zone (HPZ) demolition process prior to using the Urban Overlay District (UOD) zoning option.

MAP 4A BUILDING and MASSING View from Speedway/Euclid, looking southeast

Numbers refer to stories. Massing boundaries are approximate. *2009 Plan Amendment, 140' building height allowed.



	Modern Street Car Line
Area 1	
	Sub Area A
	Sub Area B
	Sub Area C
Area 2	
	NE Corner of Euclid Ave and 4th Street

MAP 4B BUILDING and MASSING View from University/Euclid, looking northeast

Numbers refer to stories. Massing boundaries are approximate. *2009 Plan Amendment, 140' building height allowed.



	Modern Street Car Line
Area 1	
	Sub Area A
	Sub Area B
	Sub Area C
Area 2	
Contract of Contract of States of States	NE Corner of Fuelid Ave and 4th Street

TRANSIT-ORIENTED DESIGN GUIDELINES

The following design guidelines apply to the Transition Area:

- 1. Overall Design Guideline Development in the Transition Area shall be focused on creating an urban neighborhood with residential and non-residential uses, and a multi-modal emphasis that is comfortable for pedestrians.
- 2. Streetscape Design In developing a streetscape for a new development, the following design features apply:

Sidewalks

Sidewalks should be designed to be consistent with adjoining properties, and wide enough to comfortably accommodate pedestrian traffic. Further, they should include space for street features like outdoor seating for restaurants and cafes, merchandise display, vegetation, and street lights. Sidewalks will be designed to protect pedestrians from arterial traffic.

Building Height Transitions

Buildings along Speedway Boulevard and Euclid Avenue should be designed to step back building height away from the arterial streets.

Permeability

First floors of buildings should have a significant portion of the façade area with windows that highlight visible activity within and outside the building.

Entrances

Front doors should be visible or identifiable from the street and spaced to accommodate pedestrians.

Setbacks

Building should be designed to be adjacent to the sidewalk. Parking areas should be either within a parking structure or at the side or rear of the building.

Shade

Walking, waiting, and seating areas should be designed to assure that pedestrians are provided a shade option by trees or artificial shading devices, such as covered walkways, awnings, balconies, and overhangs. Shaded patios, courtyards, and covered walkways contribute to a pedestrian environment, add architectural value, and create areas for passive and active recreation.

Landscaping

Vegetation should be encouraged around development to provide shade and ground cover so as to present a cool respite from the extremes of Tucson weather. The vegetation should be drought tolerant and planted using best practices of urban landscaping design. Vegetation should be strategically located to reduce solar heat gain and create shade.

Street Corners

Street corners offer an opportunity to create open space, public gathering places, and neighborhood entry features. Buildings at street corners have a high level of visibility. The height, massing and accent materials of buildings at corners should be encouraged to display interesting architectural features, and create shade areas and public gathering spaces. Uses such as cafes and restaurants, when safely designed, should be located nearby to activate the area.

Open Space

New development is encouraged to have ample open space features such as esplanades, courtyards, plazas and similar features to create public gathering spaces. Pedestrian activities should be considered in the design and planning of ground floor spaces so there is easy passage to the nearby public spaces. It is important that the plazas, parks and similar open space areas provide ample shade structures and tree canopies. Open space areas should be designed as a ratio of the lot size, and have a public function.

3. Architectural Design

Scale, Proportion, and Massing

A building's scale, proportion and massing should create a comfortable and welldetailed urban environment by establishing a broad variety of buildings, heights, architectural form and detail. Scale, proportion, and massing should also establish architectural patterns or features that relate to adjacent developments. Large areas of undifferentiated or blank building façades or out-of-scale buildings should be avoided. Varying proportions are encouraged. The building design and street level architectural details should reinforce active streetscapes and be of visual interest to pedestrians.

Solar Heat Gain

Landscaping and shade are especially encouraged on the south and west sides of new development. Heat build-up should be minimized, especially in pedestrian areas. Energy consumption should be designed to be efficient within the development. Paved surfaces should be minimized on the south and west sides of buildings where vegetated ground cover, permeable surfaces and trees are encouraged. Roofs should be designed to include vegetation and/or highly reflective materials.

4. Parking Design - Most parking should be within a parking structure. Parking structures should be designed to activate the street level by incorporating ground floor retail/commercial uses, and have visually appealing facades. Large areas of surface parking should be discouraged, as they create an uninviting pedestrian zone. Individual parking plans are encouraged for each development. The City or other property owners may need to consider a public parking structure if the need for one is identified. All new development must include adequate bicycle parking.

- 5. Loading and Service Areas Design Loading and service areas should be located away from pedestrian areas, and visually minimized. Service driveways should be at the rear or side of development, or located within a parking structure. They should be screened with landscaping or other architectural screening elements. Temporary loading zones may be located on rear or side streets and used during off-peak hours.
- 6. Access Management Existing and new sidewalks should be maintained to be readily accessible and easily connected to adjoining properties. Where driveways are necessary, they should be designed to have the least interference with pedestrian areas.
- 7. Special Streetscape Design Scenarios
 - a. Speedway Boulevard and Park Avenue Buffering Development along Speedway Boulevard and Park Avenue should be designed to assure pedestrian comfort and safety, by incorporating wider street setbacks along Speedway Boulevard and maintaining existing sidewalk widths (at least 10 feet) on Park Avenue. Bollards, trees and similar features should be used to increase pedestrian safety, especially along Speedway Boulevard. Wider sidewalks should also be considered, to allow pedestrian passage and safety.
 - b. Southeast Corner of Speedway Boulevard and Euclid Avenue Development along this corner should be designed to be historically compatible with the adjacent neighborhood to the west.
 - c. Northeast corner of Euclid Avenue and Fourth Street Buffering Development along Euclid Avenue should be designed to assure pedestrian comfort and safety. Bollards, trees and similar features should be used to increase pedestrian safety. Wider sidewalks should also be considered, to allow pedestrian passage and safety.

(December 13, 2011, Resolution #21836, added new Transition Area policy section – Policy 2)

POLICY 3 - NEW RESIDENTIAL DEVELOPMENT (Outside of the Transition Area)

(December 13, 2011, Resolution #21836, Policy 2 was renumbered to Policy 3, and added "Outside of the Transition Area")

As living in the inner city becomes more attractive and more in demand, incentives are needed to encourage construction of residential units that maintain the vitality of neighborhoods and their schools. This policy applies to new residential development outside of the Transition Area.

(December 13, 2011, Resolution #21836, added the last sentence to the paragraph above)

Action Needed

- A. Encourage the construction of new compatible residential development within the West University Neighborhood.
 - 1. Encourage the development of sensitively designed housing units on scattered lots (infill construction) throughout the West University Neighborhood.
 - 2. Stimulate the construction of sensitively designed, moderate density housing and explore the potential for mixed use residential/commercial development at appropriate locations as shown on the Land Use Map. Except in the Transition Area, moderate residential densities of 15-40 units per acre are appropriate.

(December 13, 2011, Resolution # 21836, added "except in the Transition Area"; renumbered Policy 2.A.2.a. to Policy 3.A.2., and deleted Policies 2.A.2.b. and c. Policy 2.A.2.b. related to an October 12, 1987 amendment for the block bounded by 2nd Street, Tyndall Ave., University Blvd. and Euclid Ave., which was subsequently developed as part of Main Gate Square (Resolution # 14220). Policy 2.A.2.c. related to a January 12, 2004 amendment (Resolution # 19760) at the southwest corner of Park Avenue and First Street, which was superseded by the Transition Area Policies).

- B. Ensure that new residential developments of significant size incorporate general recreational amenities and landscape areas as part of their overall development programs.
- C. Ensure that new residential developments provide adequate off-street parking. This is especially important in areas of the neighborhood where existing houses do not have off-street parking.
- D. Encourage that underutilized alleys either be vacated and returned to adjacent property owners, developed for other public purposes (e.g., recreational facilities), developed as off-street parking areas, or sold to private developers.

POLICY 4 - COMMERCIAL AND OFFICE DEVELOPMENT (Outside of the Transition Area)

(December 13, 2011, Resolution #21836, Policy 3 was renumbered to Policy 4, and added "Outside of the Transition Area")

Commercial and office activities serve the needs of the neighborhood, the community and the region. Therefore, the adequacy and appropriateness of office or commercially zoned land should be evaluated and zoning adjustment made when necessary. This policy applies to new commercial and office development outside of the Transition Area.

(December 13, 2011, Resolution #21836, added the last sentence to the paragraph above)

Action Needed

- A. Ensure that conversion of residential structures to nonresidential uses is minimized to protect the integrity of residential areas.
 - 1. Closely review all zoning requests for conversion within the neighborhood to ensure they comply with the following criteria:

Consider conversion of residential uses to office uses along major streets in the "Low Density and Related Services" areas, only when all of the following criteria apply:

(March 24, 1986, Resolution #13561, WUNP Commercial Development Policy 4.A.1)

(December 13, 2011, Resolution #21836, renumbered Policy 3.A.1 in amendment reference above to 4.A.1)

- a. the adjacent uses and zoning are also office or commercial.
- b. access can be provided from the front or side of the property
- c. parking and maneuvering requirements can be met on-site.
- d. the parcel is not suitable for residential purposes.

When a rezoning application is for adaptive reuse, the stability of the property for residential purposes shall be determined by the governing body on a case by case basis.

2. Consider the partial conversion of residential uses to residentially scaled office uses in the "Low Density and Related Services" areas when in conformance with the following criteria:

- a. The property is of suitable size and configuration such that the residential and office component use can operate compatibly on-site. This will be accomplished by maintaining the existing residential portion of the site.
- b. The scale of the office use, considering its size and intensity, will not create traffic, parking, or other negative impacts which would adversely affect the character of the area.
- c. The residential and office component use meets the following criteria:
 - 1) The property is located within 400 feet of Speedway Boulevard, Stone Avenue or Euclid Avenue.
 - 2) All parking and maneuvering can be met on-site.
 - 3) The office component portion of the site contains no more than two offices. If two offices are desired, the total square footage of both offices combined total a minimum of 1,600 square feet.
 - 4) No more than 60 percent of the building or structure is devoted to office use.
 - 5) The residential component is retained on-site and does not have a home occupation
 - 6) The residential portion of the property contains only one single family use.

(June 28, 1993, Resolution #16335, WUNP Commercial Development Policy 4.A.2.)

(December 13, 2011, Resolution #21836, renumbered Policy 3.A.2 in amendment reference above to 4.A.2)

- B. Prevent the establishment or extension of strip commercial districts in the neighborhood.
 - 1. Support the maintenance, intensification, and strengthening of existing neighborhood commercial nodes at University Boulevard/Tyndall Avenue and Fourth Avenue/Sixth Street.
 - 2. Restrict commercial development to those areas identified on the Land Use Map.

(December 13, 2011, Resolution #21836, changed Development Concept Map to Land Use Map)

- C. Upgrade and maintain existing commercial services.
 - 1. Promote shared off-street parking facilities, the development of streetscape improvement programs, and the establishment of landscape buffers between commercial uses and adjacent residential properties.
 - 2. Encourage commercial retail and service uses and related facilities to screen storage and trash removal areas.
 - 3. Encourage the development of off-street parking areas with appropriate amenities and screening within defined commercial districts.
- D. Allow for the adaptive use/reuse of the historic YWCA building for professional and semiprofessional office uses, if the following criteria are met:
 - 1. The existing principal structure on the parcel is retained.
 - 2. The existing principal structure, which contributes to the historic district, is maintained.
 - 3. The governing body has determined that the structure is not suitable for residential use.
 - 4. The office use does not adversely impact surrounding land uses.

(September 14, 1992, Resolution 16107, WUNP, add Commercial Development Policy 4.D Adaptive Reuse of YWCA)

(December 13, 2011, Resolution #21836, renumbered Policy 3.D in amendment reference above to 4.D.)

- E. Allow for the adaptive reuse of the old Lohse YMCA site for residential, craftwork, entertainment, gallery, professional, and semi-professional office and restaurant uses if the following criteria are met:
 - 1. The craftwork, entertainment, gallery, and office uses do not adversely impact surrounding residential land uses.
 - 2. Adequate off street parking is provided to prevent spill-over into the West University Neighborhood.
 - 3. Parking access and egress are designed so as to minimize non-residential traffic on residential streets.

(April 14, 1997, Resolution #17608, WUNP add Commercial Development Policy 4.E. Adaptive Reuse of YMCA)

(December 13, 2011, Resolution #21836, deleted the first criterion under Policy 4.E, as the principal structure had long been demolished, and renumbered the remaining three criteria; and renumbered Policy 3.E in amendment reference above to 4.E.)

POLICY 5: PUBLIC IMPROVEMENTS

West of Euclid Avenue, develop and maintain a streetscape that supports the West University Neighborhood's residential and historic character.

(December 13, 2011, Resolution #21836, Policy 4 was renumbered to Policy 5, and added "West of Euclid Avenue" to the sentence above)

Action Needed

- A. Ensure that any transportation improvements that affect the West University Neighborhood are designed to ensure maintenance and preservation of neighborhood integrity and character.
 - 1. Ensure that any transportation improvements within or adjoining the neighborhood are done in a manner which minimizes impact on the neighborhood. Great care should be taken to ensure maximum protection to existing residential structures within the National Register of Historic Districts, and minimum property acquisition should occur only after all other avenues of action have been explored with the neighborhood.
 - 2. Work closely with municipal and regional transportation planners to minimize new traffic flow within the neighborhood and, insofar as possible, to reduce existing traffic flow.
 - 3. Maintain residential speed limits on all interior streets within the neighborhood.
 - 4. Ensure that new major traffic arteries are routed around, rather than through, the neighborhood.
 - 5. Ensure that all residential uses are adequately buffered from major transportation corridors.
- B. Support the development of public transit facilities necessary to serve the West University Neighborhood, and link it with other parts of the community.

(December 13, 2011, Resolution #21836, added "and link it with other parts of the community")

- 1. Maintain a level of bus routes and stops which adequately serve the community while protecting lower density residential areas from unwarranted intrusion.
- 2. Encourage the appropriate maintenance of bus stops and waiting areas, including the surfacing and placement of benches and bus waiting shelters.
- 3. Develop bus stop benches and shelters that are architecturally consistent with the historic nature of the West University Neighborhood.

- 4. In coordination with the *El Centro de Tucson Design Plan*, encourage the reintroduction of the University trolley/tram following the Fourth Avenue/University Boulevard route to the Central Business District (CBD).
- 5. Support the implementation of a modern streetcar in the neighborhood, linking the UA, Fourth Avenue, the Tucson Downtown area, and areas west of Downtown.

(December 13, 2011, Resolution #21836, added new Policy 5.B.5.)

C. West of Euclid Avenue, upgrade and improve the existing streetscape elements (lights, signs, and sidewalks) in a manner that is consistent with the residential and historic nature of the West University Neighborhood.

(December 13, 2011, Resolution #21836, added "West of Euclid Avenue")

- 1. Develop and implement a neighborhood-wide program to upgrade the existing street light system to contemporary standards for security and energy conservation, while maintaining the historic street lights in designated areas.
- 2. Ensure that all remaining old style street signs are preserved. In addition, develop a program to replace all new style signs with newly-manufactured replicas of the old style signs. The designated National Register of Historic Districts should receive first priority for this program. However, the entire West University Neighborhood should eventually receive the old style signs to promote neighborhood identity.
- 3. Replace damaged sidewalks and install new sidewalks where none exist. Ensure that all sidewalk replacement and repair work maintain WPA imprints and cast metal water utility stop boxes.
- D. Designate and improve major pedestrian corridors that: (a) link major community elements (e.g., residential areas, commercial areas, campus) and (b) stimulate foot travel and bicycling.
 - 1. Install handicapped ramps at all major street intersections.
 - 2. Encourage paving and lighting improvements to public alleys throughout the neighborhood.
- E. Work for the continued upgrading, facility improvements, and security patrols in DeAnza and Catalina Parks to encourage community social interaction.
 - 1. Provide general improvements to DeAnza and Catalina Parks, such as lighting, irrigation systems, planting beds, walkways, seating, etc.

- 2. Continue the development of DeAnza Park, at Speedway Boulevard and Stone Avenue, as a community park to serve the needs of the neighborhood, the adjacent Pima Community College and city-wide needs.
- 3. Continue the development of Catalina Park, at Fourth Avenue and Second Street, as a neighborhood park to primarily serve the needs of neighborhood residents (e.g., active recreation, passive recreation, events programming).

POLICY 6: UNIVERSITY OF ARIZONA

(December 13, 2011, Resolution #21836, Policy 5 was renumbered to Policy 6)

Work closely with the UA to assure that University-related development is compatible with the character of the neighborhood.

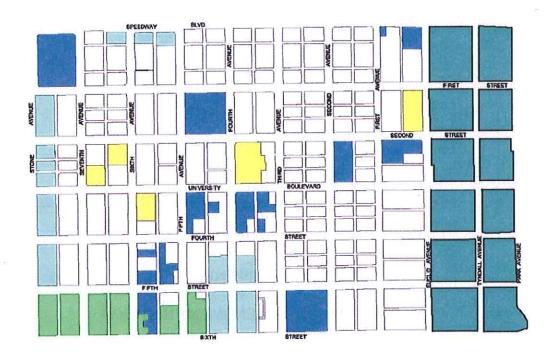
Action Needed

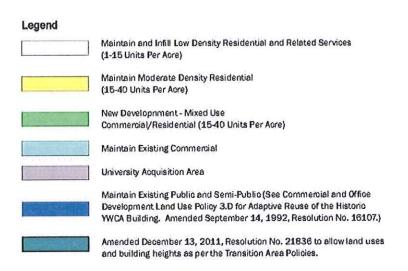
A. Continue to coordinate with the UA regarding the implementation of projects in the West University neighborhood, consistent with this neighborhood plan and the UA Comprehensive Campus Plan.

(December 13, 2011, Resolution #21836, modified policy wording but maintained intent. Deleted references to Campus Community Relations Committee, transition zone, and 1988 UA Comprehensive Campus Plan)

- B. Work with the UA and the City of Tucson to limit the number and ensure the appropriate location of fraternities and sororities so as to minimize adverse impacts on the Neighborhood.
- C. Continue to work with the UA and the City of Tucson Transportation Department in examining the possibility of street closures in the Fifth Street and Tyndall Avenue area.

MAP 5 West University Neighborhood Plan Land Use Map





(December 13, 2011, Resolution #21836, revised Proposed Generalized Future Development Concept Map in the Transition Area, and renamed it the WUNP Land Use Map)

APPENDIX

WUNP - AMENDMENT HISTORY

NOTES	Neighborhood-initiated amendment, in response to several rezoning requests to convert residential	to commercial and office uses, in "low density	and related services areas."					The project upon which the amendment was	based (UT Commons) was never built. Because	the amendment allowed for an increased building	height, it allowed a rezoning to proceed for the	Main Gate redevelopment, including the hotel at	the southwest corner of Tyndall and 2 nd Street.	The amendment area was redeveloped with the	hotel, the UA's University Services building west	of the hotel, and Main Gate shops along	University Boulevard.								
Policy Change		;	X											Х										1	
Map Change														X											2 1
Amendment Description	In "low density and related services areas", the policies	were revised to prohibit	conversions of residential to commercial uses, and to allow	conversions of residential to	office uses only along major	streets, and subject to certain criteria.		Allowed high-density dormitory	housing (up to 126 units/acre),	and building heights of up to 90	teet, with integrated	commercial development, on	the block between Tyndall and	Euclid Avenues, and University	Boulevard and 2 nd Street	2	Prior to the amendment, the	plan called for "maintaining	existing commercial uses" on	the eastern half of the site, and	mixed-use commercial/	residential development (15-40	units/acre) on the western half	of the site.	
Reso.#	#13561						#14220																		
DATE	3/24/1986						10/12/1987																	7	

DATE	Reso.#	Amendment Description	Map Change	Policy Change	NOTES
8/1/1988	#14564	Neighborhood Plan Update			Plan was updated at the request of the neighborhood. Plan policies were revised to strengthen the language that promotes
				×	maintaining and enhancing the residential character of the neighborhood. New policies were added to guide development in the transition
					area, as well as development by the University of Arizona in the neighborhood plan area.
11/28/1988	#14706	On Speedway Boulevard, in "low density and related			See Commercial And Office Development Policy 3.A.1, and footnote 1. Some homes along
		services" areas, permitted the conversion of residential uses to			Speedway were subsequently rezoned to O-1 and
		0-1 office uses even if the		Х	converted to restactifianty-seated office uses.
		adjacent uses and zoning are residential (it waived the			
		adjacency criterion along Speedway Boulevard).			
2/11/1991	#15586	Allowed residentially-scaled			The Marshall Foundation rezoned and converted
		Euclid, between Speedway			the northeast corner of Euclid and First Street.
		Boulevard and First Street.	Х	Х	
		density residential and related			
9/14/1992	#16107	Allowed the historic YWCA building at 738 N Fifth			The site was rezoned to permit office uses, and the building is currently used as offices
		Avenue, to be adaptively re-			
		used for office purposes. Prior	Х	Х	
		to the amendment, the plan			
		allowed public/semi-public uses."			

DATE	Reso. #	Amendment Description	Map	Policy	NOTES
6/28/1993	#16335	Allowed partial conversion of residential uses to residentially- scaled office uses, in "low density residential and related services areas", subject to criteria.		X	Amendment was filed to allow the property at 1010 N. Fifth Ave. to be rezoned to O-1, to allow the owner to sublease the office space. There was a legal, non-conforming office use on the site, in addition to a residential use. Without the rezoning, code restrictions allowed only the resident and one outside employee to use the office space. The amendment request resulted in a decision to add a new policy allowing partial conversions of residential to office uses in certain locations, subject to certain criteria. The site was subsequently rezoned and redeveloped with a small office use.
4/14/1997	#17608	Allowed a mix of studio, rehearsal, performance, gallery, office and residential uses, on the site of the former Lohse YMCA building on NEC N. 5^{th} Ave. and E. 6^{th} Streets.	54	х	This amendment was for the International Arts Center, which was never built. The building was razed. The site, which had been vacant for over a decade, is being developed as a 5-story student housing project.
4/12/1999	#18264	Allowed a residentially-scaled office use (O-1) on three lots at the southwest corner of First Street and Tyndall Avenue. Prior to the amendment, the area was designated as University Acquisition Area.	×		A rezoning to O-1 was processed but expired. The buildings are used primarily for University of Arizona purposes.

Policy NOTES Change	The site has been developed with a bank and an associated parking area for several decades. X	The amendment was for a planned hotel that would be the final phase of the Main Gate development.	This amendment was directed by the Mayor and Council. X
oc O			
Map Change	×	×	×
Amendment Description	Allowed up to 6-story, mixed- use development at the southwest corner of Park Avenue and First Street. The previous land use designation was "maintain existing commercial".	Allowed a 140-foot high building at the southeast corner of Tyndall Avenue and Second Street. The site, which is west of the Louise Foucar Marshall Building, is currently vacant and is used as a surface parking area.	Added a new policy section and design guidelines to support transit-oriented development in the Transition Area, and the implementation of a modern streetcar through the neighborhood. Updated other sections of the plan.
Reso. #	#19760	#21449	#21836
DATE	1/12/2004	12/7/2009	12/13/2011