

Regional Tree and Shade Summit 2.0
Branching Out One Community at a Time

Green Infrastructure Projects & Public Strategies Towards Success



Presenting Today:

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Green Infrastructure

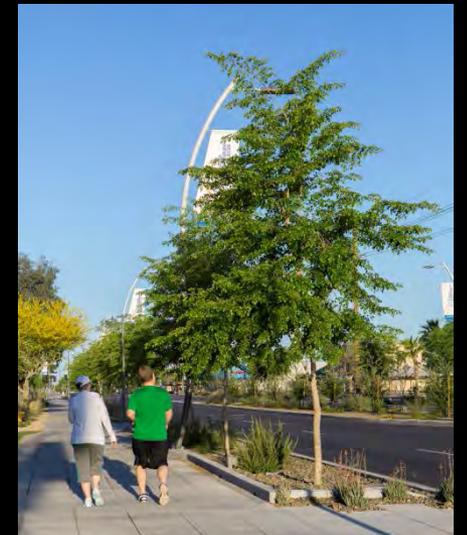
Park Systems & Connectivity

Urban Forests

- Urban Heat Island
- Air Pollution & Carbon
- Property Values

Green Streets

- Multi-modal transportation
- Street Trees
- Bio Swales
- Technology



Public Strategies Towards Success

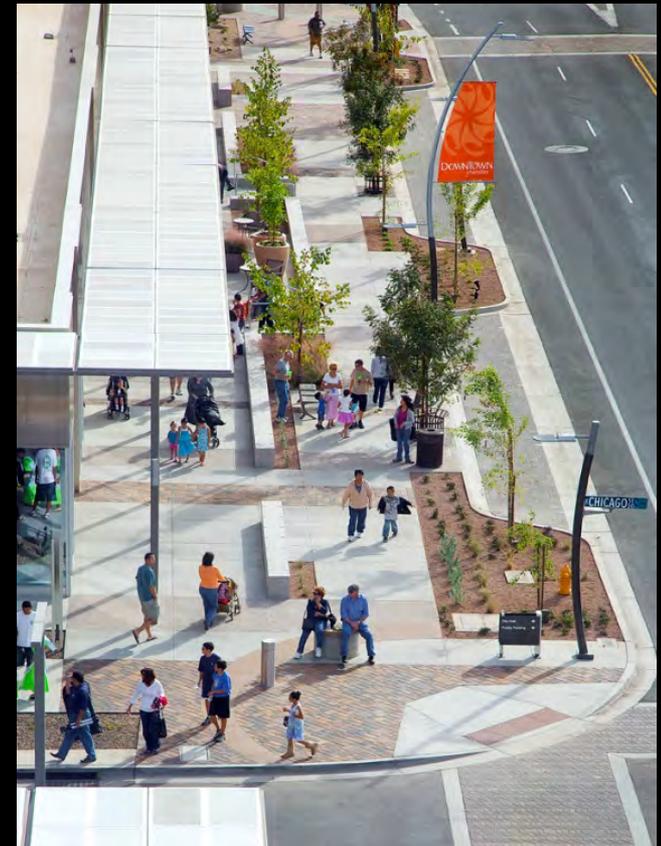
Community and Stakeholder Involvement

Sensitivity to Environment

Complete Streets

- Placemaking
- Art
- Economic Development
- Multi-modal Transportation

Low Impact Development (LID)



Stakeholder Outreach & Public Involvement

- Building Consensus / Develop Community Excitement
- Public and Stakeholder meetings / workshops
- Project website and hotline
- Flyers
- BBQ in the park
- Team and City Staff lunches at local businesses
- Coffee on the corner



Stakeholder Outreach & Public Involvement

- Mock-ups
- Booths at Festivals



Fiesta District Improvements

Southern Avenue Improvements, Mesa, AZ

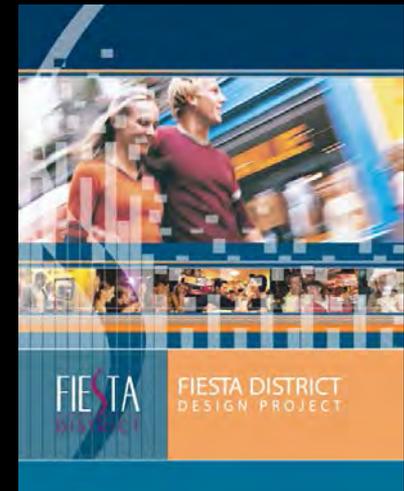
District Revitalization / Economic Development / Green Infrastructure



Fiesta District Vision

“The District Vision creates a uniquely identifiable area for Mesa that is economically vibrant, pedestrian friendly, and an active, urban destination. Revitalization of the Fiesta District will again transform this major City employment center to a place of destination...”

- Pedestrian friendly with integrated mix of uses
- Diversity of entertainment and evening uses
- Unique branding and sense of place
- Urban Atmosphere and activated street scene
- Supported by an improved public transit system
- A place where businesses are eager to locate
- A place to live, work, shop, learn and do business



Fiesta District Improvements

District Area: Tempe Canal to Extension Road



Existing Conditions



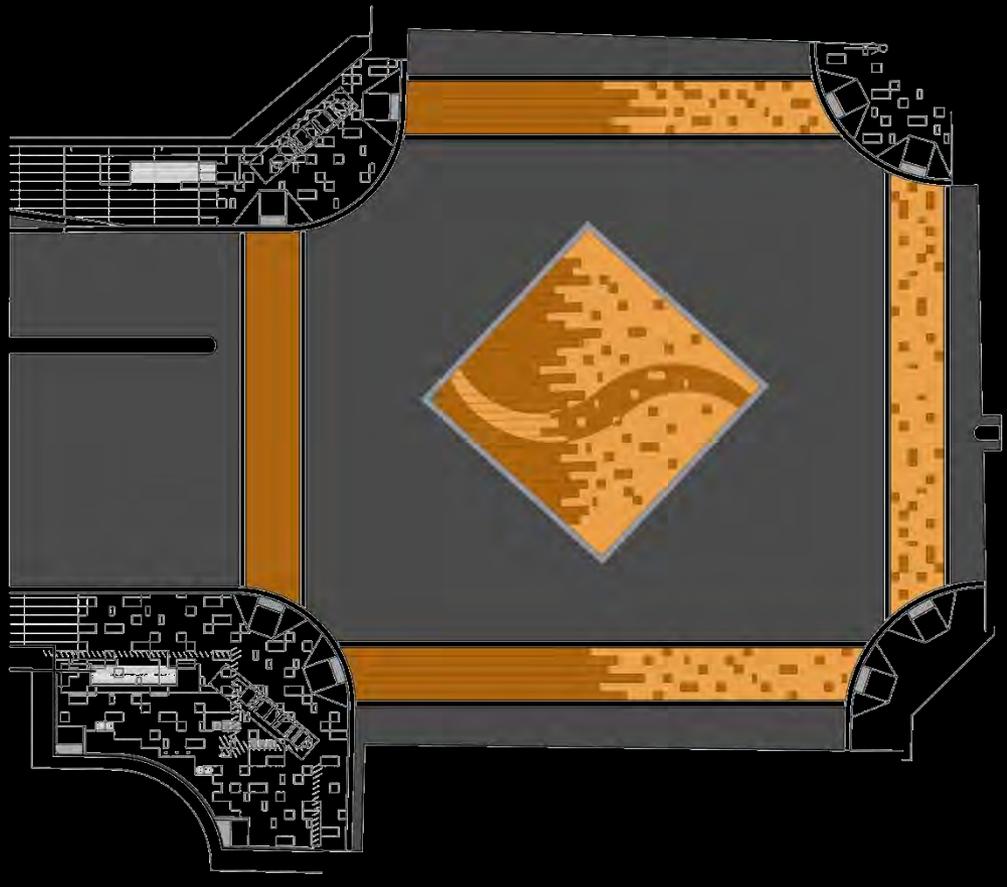
Southern Cross Section (Looking East)



Placemaking: Downtown & District Redevelopment:



Primary Intersection Paving Treatment (Temperature Reduction Surfacing)

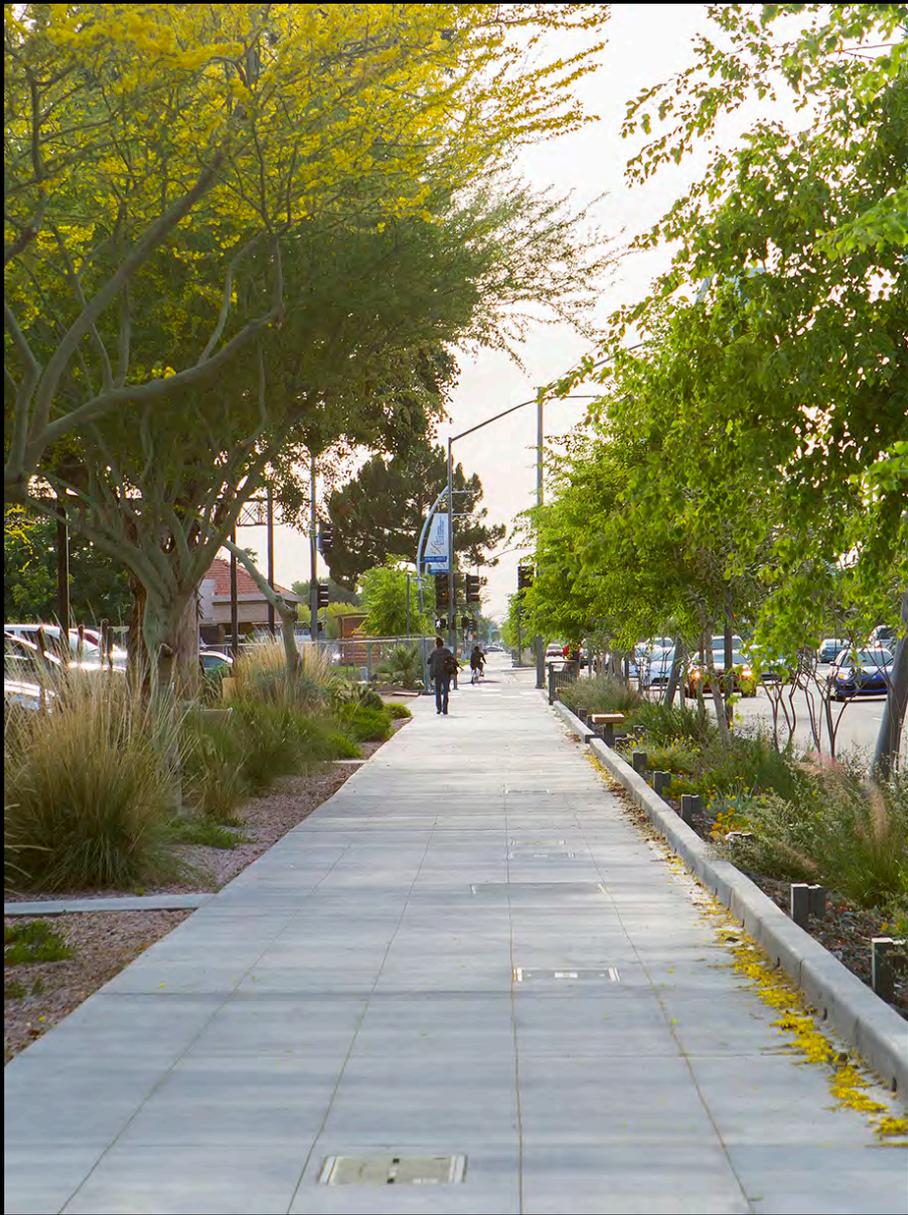




Temperature Reduction Surfacing



Integrated Landscape & Paving



Multi-use Path



Multi-use Path & Stormwater Harvesting Swale

Stormwater Harvesting (Bioswale)



Stormwater Harvesting (Bioswale)



Southern Avenue Bus Shelter Concept



Southern Avenue Bus Shelter w/ Solar Lighting



Southern Avenue

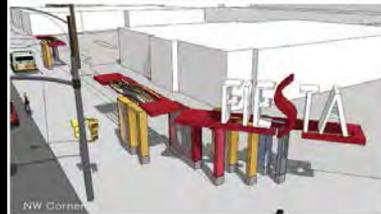
Median Monument Concept



Southern Avenue Gateway Monumentation Concept



Base Gateway



Expanded Gateway



Expanded Gateway Concept with "DISTRICT" Element

Overhead canal with ribbon lattice - can be lit as per original concept. Provides overhead shelter as well as interesting shadow patterning.



Expanded Gateway Concept

Fixed glass element is 8' 10" and 12" length 10' height. Can be upgraded as needed to accommodate corner configuration while retaining a consistent presentation.

Composition creates a dynamic visual for passing vehicles and an interesting sequence for pedestrians.

Continued overhead gully intensity 18 letters at 45° to street.

Continues expands presence of gateway without encroaching into mobility strips.

Plans match frame angled opening internally lit for nighttime glow. Typical for all.

Taken from original concept.

Concrete Base

Public Art piece - LED/Metal Ribbon Composition with metal mesh cover.

Taken from original concept and made transparent to meet CPED standards.

Mesh cover provides vandalism protection for exposed LED's and creates a more pattern as direct more past.

Southern Avenue Gateway Monumentation Concept



Southern Avenue Gateway Monumentation

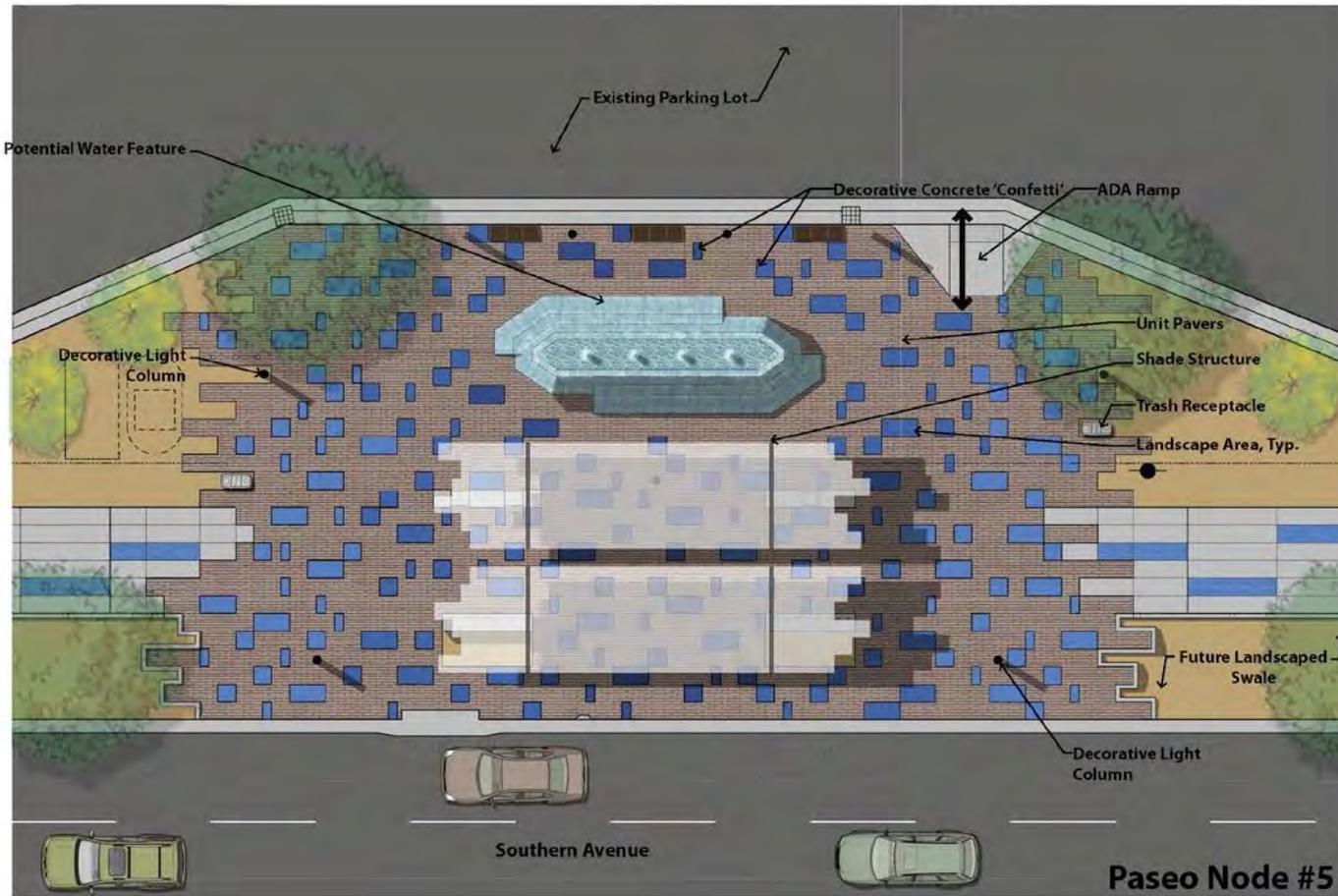


Southern Avenue Gateway Monumentation



Fiesta Paseo Nodes

(5 Southern Avenue Pocket Parks)



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Fiesta Paseo Nodes

(5 Southern Avenue Pocket Parks)





DELTA STREET
1500 W → 1200 S ↑
Southern Ave



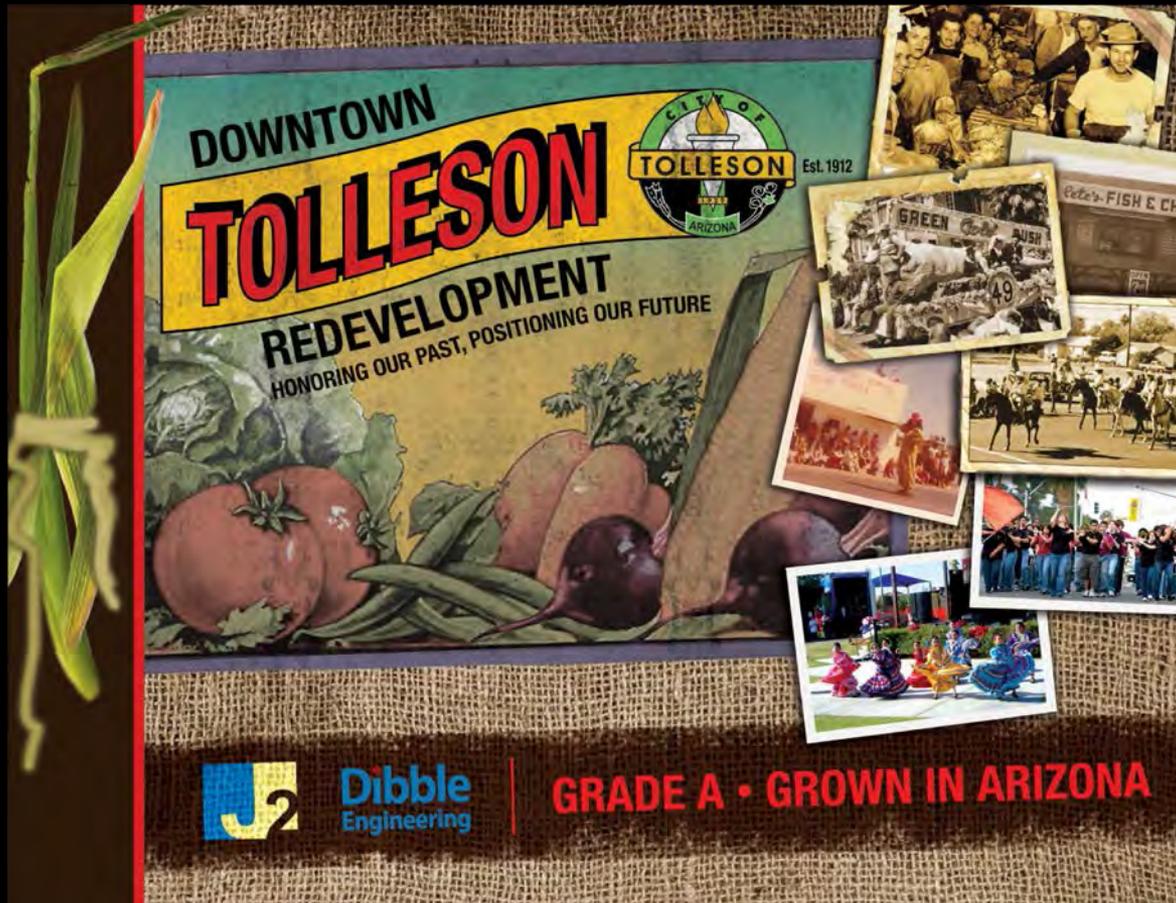
Fiesta Paseo Nodes

(Adjacent Private Development in Progress)



Downtown Tolleson Redevelopment Project

Van Buren Street

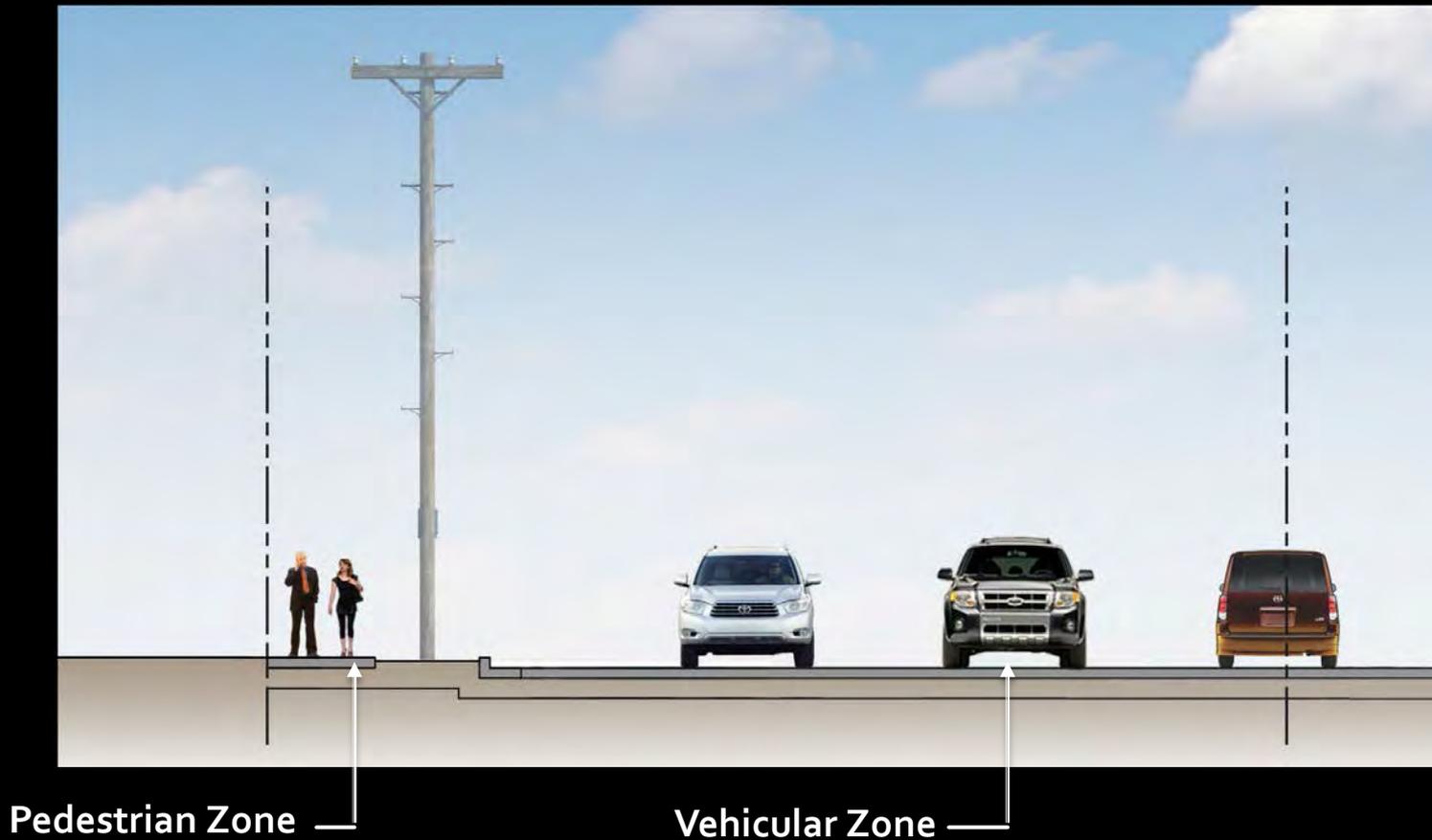


Elements of the Van Buren Streetscape

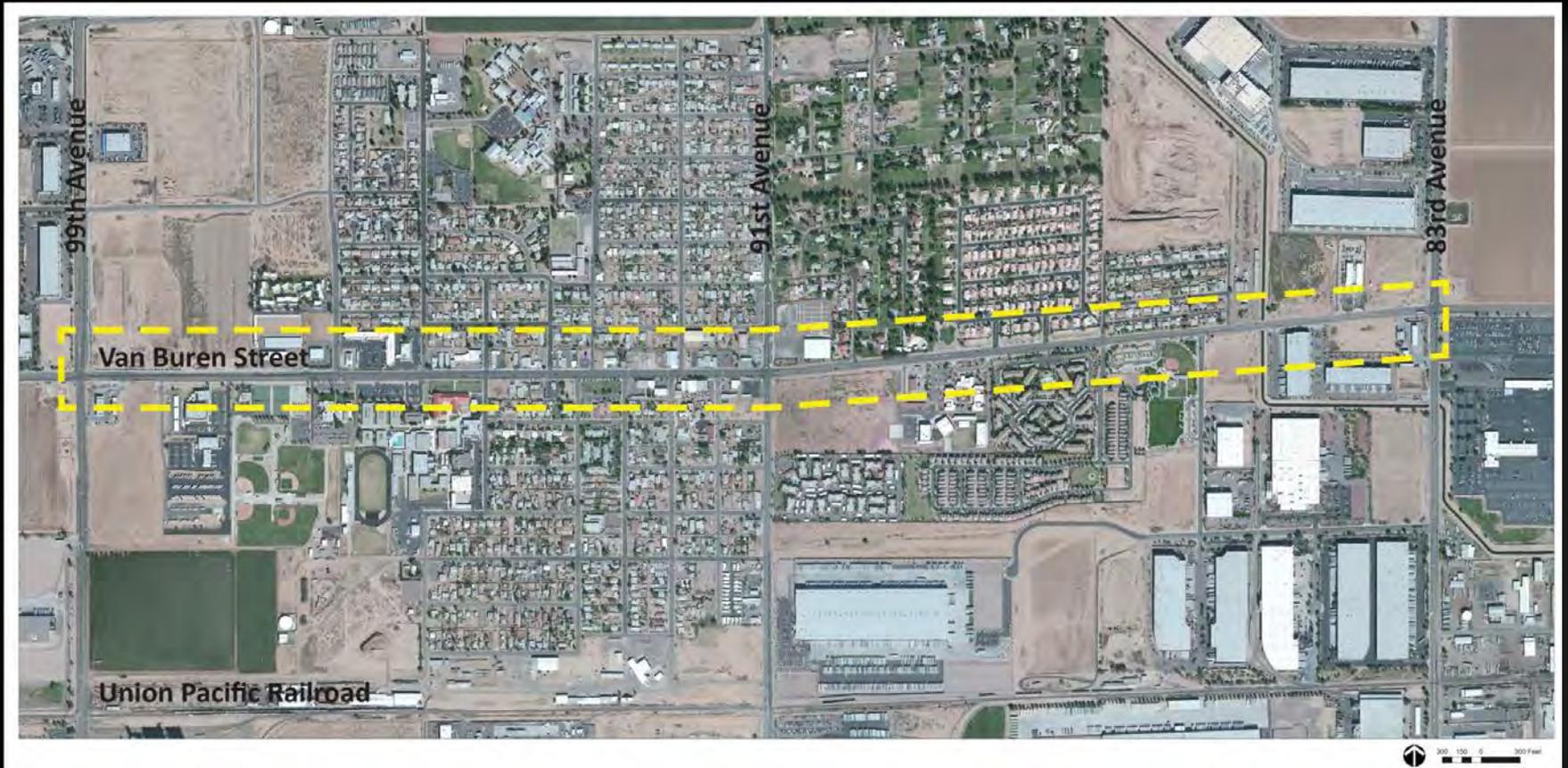
Existing Conditions Looking East



Van Buren Streetscape – Existing Cross Section



Project Limits: Conceptual Planning



Development Zones

1st Stage Improvement Project

91st to 99th Avenue



Zone 3

Zone 2

Zone 1

Zone 4

Project Overview

"Build Upon Existing Downtown Assets"

- Street Width / Right-of-Way / Speed Limit (25 mph)
- Available Open Space
- Community Ownership: Residents, Stakeholders & Businesses
- "Activity on the Street": City Hall, Arizona Desert Elementary, Tolleson Union High School, and Post Office
- Existing Buildings on the Right-of-Way / Urban Flavor



Downtown Open Space Assets



Intersection Improvements & Gateway Opportunities



Define The Vision:

Transition to a Vibrant Downtown
that is a Long-term Economic Engine

- Outstanding Opportunity to “Set the Table” for Downtown
- Develop a Destination Environment with a True Sense of Place
- Pay Tribute to Tolleson’s Community, Heritage, & Culture
- Develop a multi-modal Downtown that balances vehicular, pedestrian, bicycle, and mass transit traffic
- Develop with a green building focus

Van Buren Street

Proposed Cross Section

- 15' to 18' Pedestrian Zone
- Shade Trees, Seating Opportunities, & Planting Buffer
- Successful Mix of Vehicular, Pedestrian, Bicycle, & Mass Transit Traffic
- Provide Outstanding Opportunity for Private Development to Invest in Downtown



Aesthetic Lighting, Banners, Signage/Wayfinding, Art & Cultural Amenities, and On-Street Dining

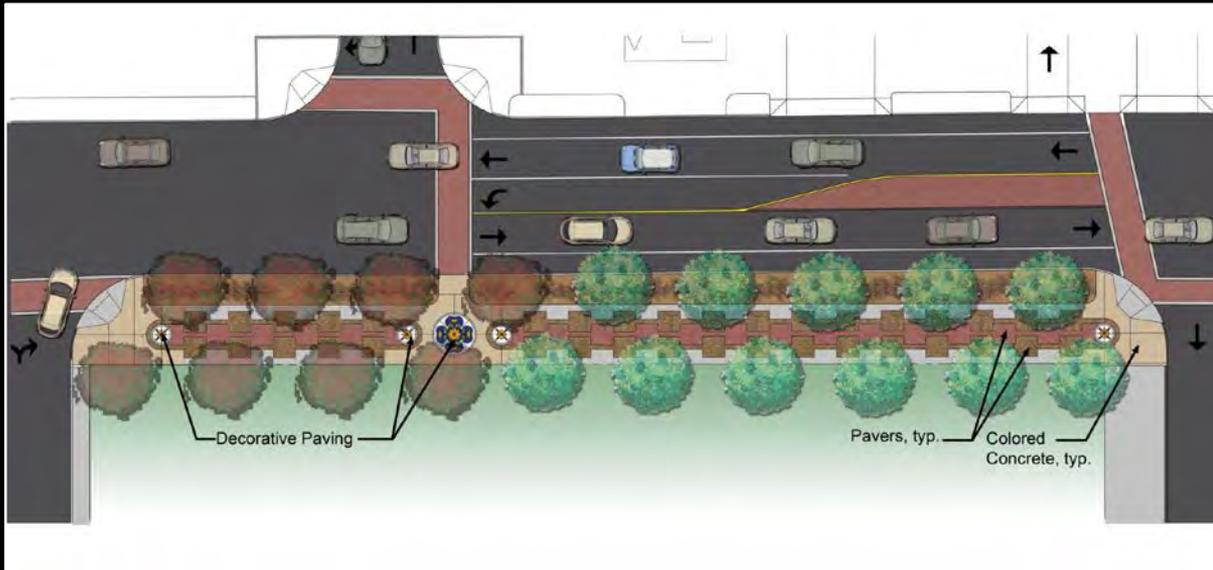
Design and Operate Entire Right-of-Way



Economic Revitalization



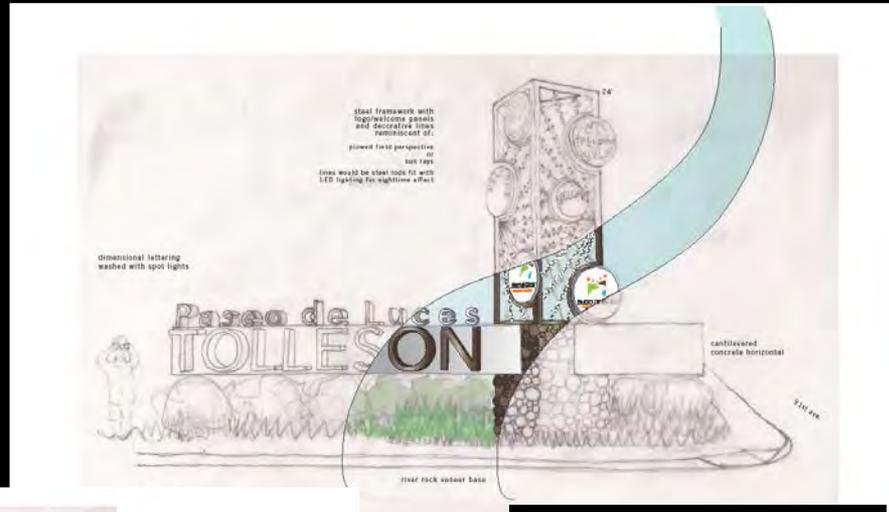
Pedestrian & Crosswalk Paving



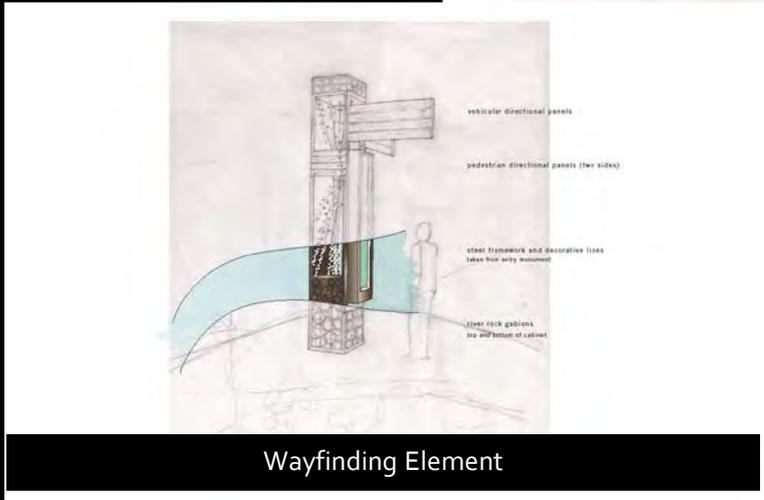
Branding and Logo



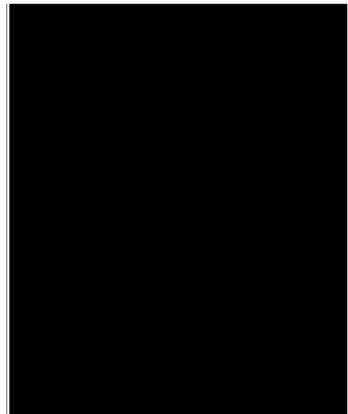
Gateway Entry Monuments, Pedestrian Wayfinding, and Art Kiosk Opportunities



Gateway Entry Monument



Wayfinding Element



Art Kiosk Element

Gateway Entry Monuments, Pedestrian Wayfinding, and Art Opportunities





- ↑ Boys & Girls Club
- ↑ Fire Department
- ↑ Police/Court 1 mi
- ↑ Veterans Park 1 mi



SEASON

Paseo de Luces











Upcoming Enhancements



Before



Façade Renovation Concepts for Future Restaurant

The Arizona Avenue Improvement Project

Streetscape and Downtown Redevelopment Improvements

Building More than 'Just a Road'



Downtown Chandler



State Route 87

1941 AZ Ave
Relocation

Strip
Commercial
and Industrial
Development
Follows

Arizona Avenue - Before



Elements of the Arizona Avenue Streetscape

Declining Businesses



Conceptual Options



Concept 'A' Bird's-Eye View



Concept 'B' Bird's-Eye View



Concept 'C' Bird's-Eye View



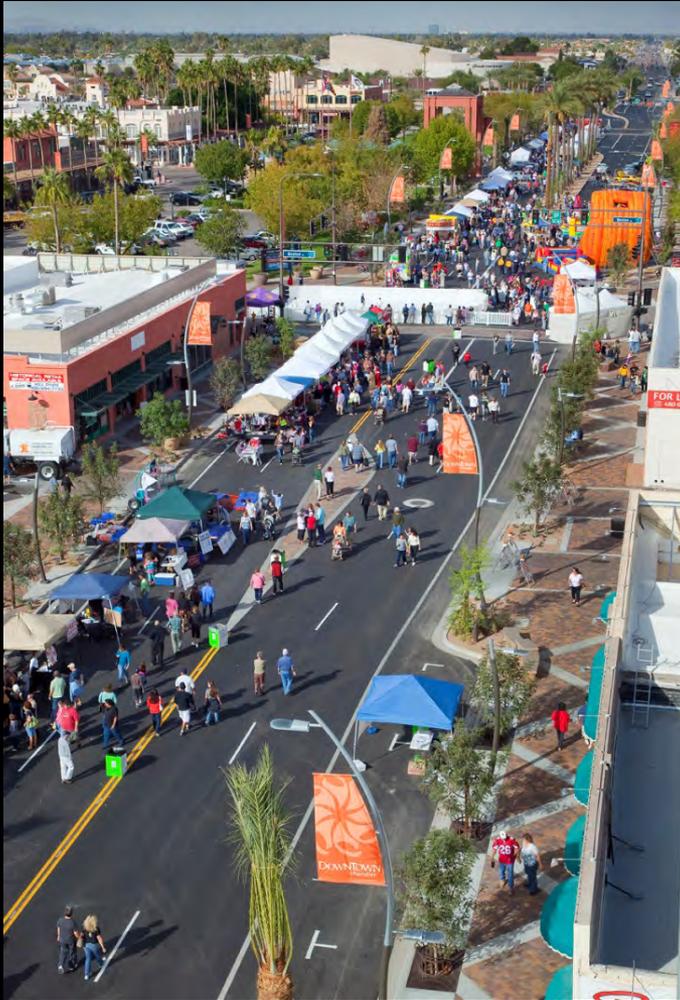
Concept 'D' Bird's-Eye View

Arizona Avenue – Selected Option

4 Travel Lanes, Bike Lanes, Parallel On-Street Parking
(Future Room for Light Rail)

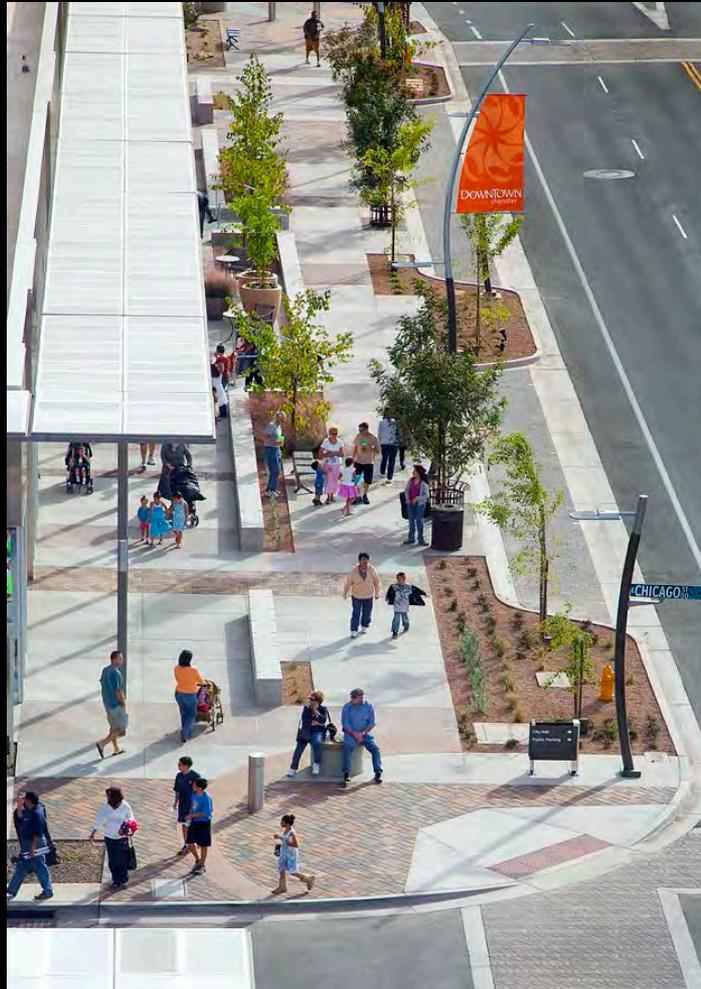


Dimensions: “Metrics” of the Streetscape



- Reduced Pedestrian Crossings from the 88' to 90' Range Down to the 58' Range
- Reduced Asphalt Width
- Reduced Lane Widths from the 14' range to 10.5' (maintained 35 mph speeds)
- Added Bike Lanes
- Increased Sidewalk / Pedestrian Zone from the 5' to 8' Range to the 15' to 20' Range to Allow for the Street Tree System & a Variety of Uses
- Designed “Bulb-outs” at Corners to Reduce Crosswalk Width, Enhance Aesthetics, Increase Planting Area, and Calm Vehicular Traffic

Bulb-out Example



Pedestrian Crossings / In-Roadway Lighting



Designing for Pedestrian Scale & Vehicular Scale



Placemaking: A Destination Environment

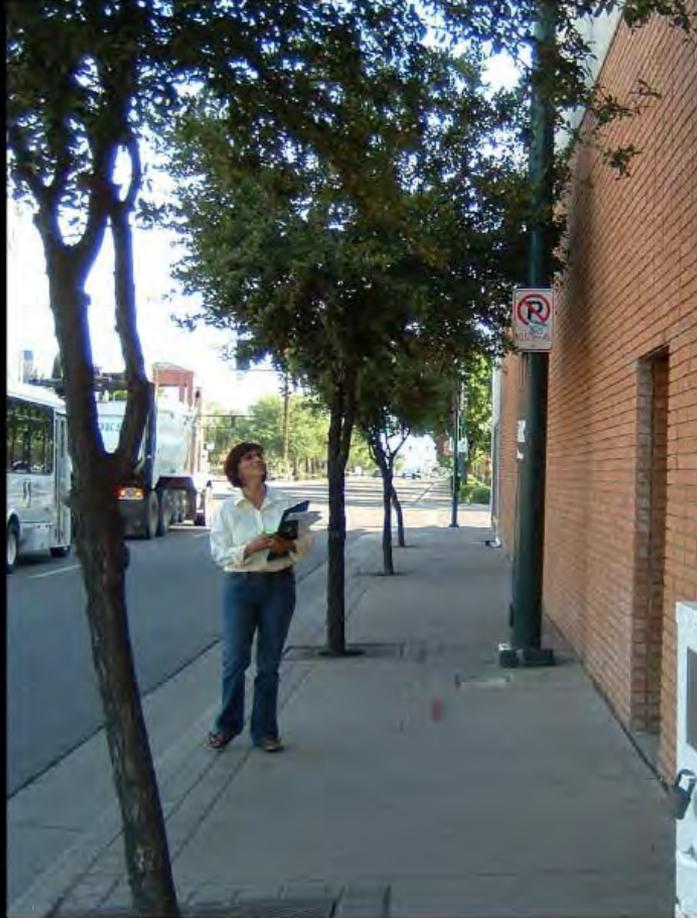
Street Tree System / ADA Accessibility / Design for All Ages / Multi-Modal
Memorable Environment / Signage Wayfinding / Places to Rest



A Road in Balance is a 'Place'



ROW Encroachment



Before



After

Develop a True Sense of Place For a Variety of Users



Design Affects Speed

| Date | Average Speed | 85th Percentile |
|---------------|---------------|-----------------|
| June 2008 | 36.7 | 40.4 |
| February 2011 | 29.2 | 33.6 |



Lighting (Before Improvements)

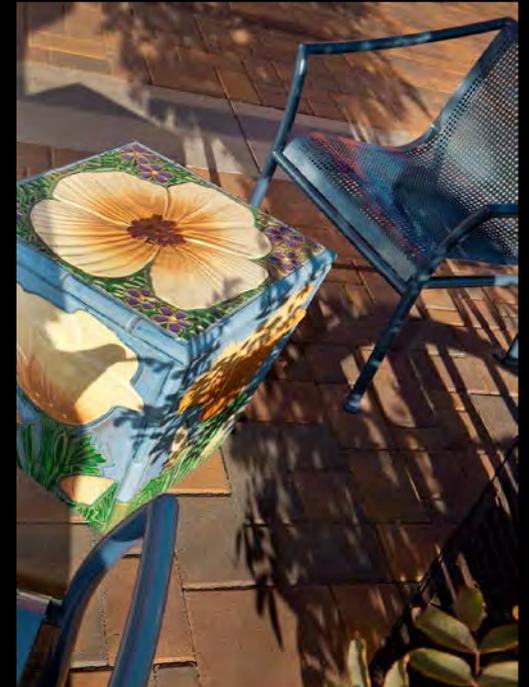


Custom Lighting (After Improvements)

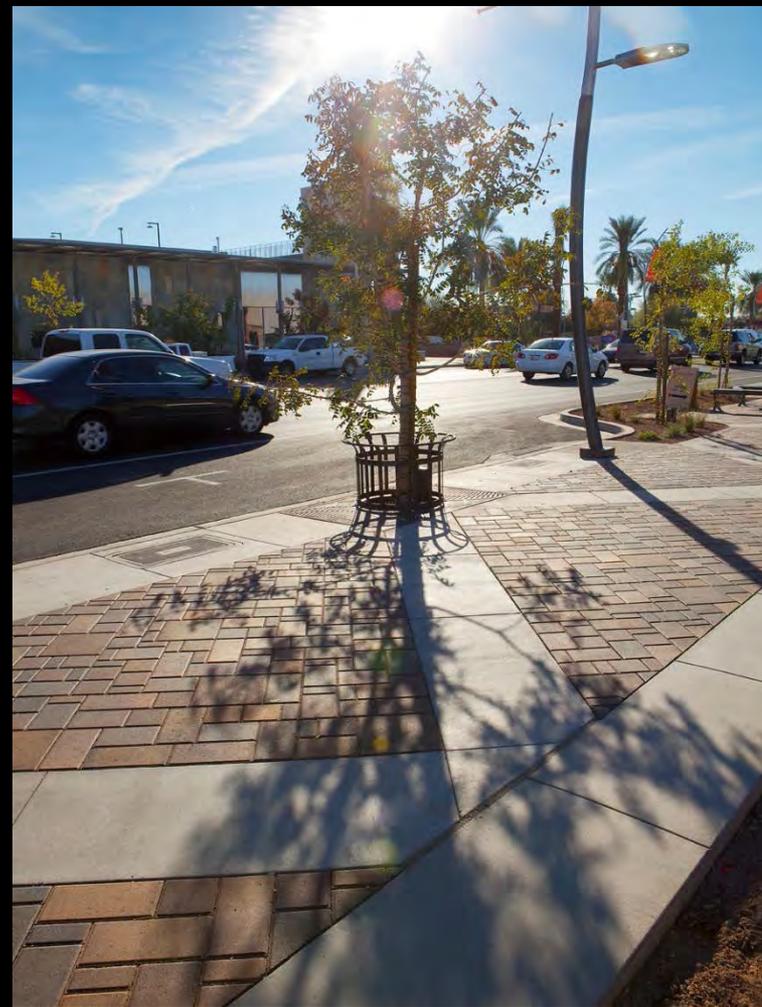
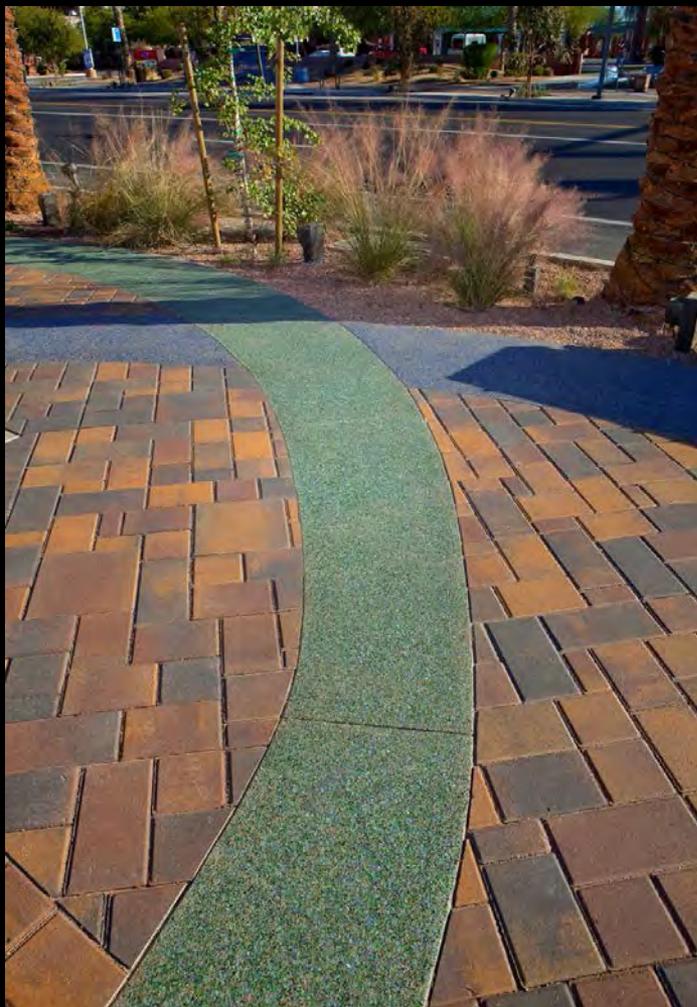


LED Light Fixtures

Integration of Art



Enhanced Paving and Utilities



Recycled Glass

Variety of Seating Options



Street Trees / Utilize Existing Materials



Accommodate Festivals





Arizona Avenue



Before

The Power of Place

- Civic pride
- U of A and ASU Downtown campuses
- Over 625 new jobs
- Double digit Sales Tax Growth
- Less than 2% Retail vacancy
- Positive press – over 100 major spots
- Growing Special Events Including a Downtown Stage
- International, National and Local Awards
- 20 new businesses
- Multiple residential developments being planned

Thank You

Questions & Answers

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