Green Infrastructure Projects &
Public Strategies Towards Success

Presenting Today:

Denise Dunlop, Landscape Architect
J2 Engineering & Environmental Design

Teresa Makinen, President
MakPro

Jeff Velasquez, Landscape Architect
J2 Engineering & Environmental Design

March 9, 2016
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 & 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
Southern Avenue
Gateway Monumentation Concept
Southern Avenue
Gateway Monumentation
Fiesta Paseo Nodes
(5 Southern Avenue Pocket Parks)
Fiesta Paseo Nodes

(5 Southern Avenue Pocket Parks)
Fiesta Paseo Nodes
(5 Southern Avenue Pocket Parks)
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

Pedestrian Zone

Vehicular Zone
Project Limits: Conceptual Planning
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

Paseo de Luces
DOWNTOWN TOLLESON

See TOLLESON IN A WHOLE new light 2013
Gateway Entry Monuments, Pedestrian Wayfinding, and Art Kiosk Opportunities
Gateway Entry Monuments, Pedestrian Wayfinding, and Art Opportunities
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
Conceptual Options
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

<table>
<thead>
<tr>
<th>Date</th>
<th>Average Speed</th>
<th>85th Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2008</td>
<td>36.7</td>
<td>40.4</td>
</tr>
<tr>
<td>February 2011</td>
<td>29.2</td>
<td>33.6</td>
</tr>
</tbody>
</table>
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
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

Contact Information:
Denise Dunlop & Jeff Velasquez, J2 Engineering & Environmental Design
ddunlop@j2design.us  jvelasquez@j2design.us  602-438-2221

Teresa Makinen, MakPro
teresa@makprosvc.com  480-890-1927