Tempe Streetcar

APTA Streetcar Subcommittee
2019 Mid-Year Meeting
February 27, 2019
Outline

• Regional Rail System
• City of Tempe
• Overview/Project Features
• Design Challenges
• Schedule/Milestones
• Construction Challenges
• Financial Breakdown
• Streetcar Extension Study
Tempe, AZ

- Business Sector
- A-Mountain
- Downtown
- Stadium
- ASU Campus
- Bammage Auditorium

5
Overview

- Approximately 3 Miles
- 14 Stops
- 2 LRT Crossings
  - Ash Avenue
  - Mill Avenue
- 1 LRT Connection
  - Dorsey Lane
- 3 Traction Power Sub Stations (TPSS)
Public Art
Streetcar Vehicle
Mill Avenue Configuration

Mill – University to Rio Salado
Design Challenges - Miscellaneous

• Utility Relocation Requirements
• # of TPSS
• Feeder Cables
• Landscaping
• Stops
• Alignment
Design Challenges - Roundabout
Design Challenges – Rio Salado
Construction Schedule

<table>
<thead>
<tr>
<th>Construction Elements</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tbody>
<tr>
<td>Utility Relocation</td>
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<td>Roadway Work</td>
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<td>Track Guideway Installation</td>
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<td>Stop Platforms</td>
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<td>Electrical Systems Installation</td>
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<td>Operations Training</td>
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<td>Vehicle &amp; System Testing</td>
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<td>Opening</td>
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• 14-year process: planning start - 2007
Tempe Streetcar Milestones

- Rail Delivery
- EE Approval
- ASU Agreement
- APS Agreement
- GMP Negotiations
- Risk Review
- SYGA Approval
Construction Challenges - LRT
Construction Challenges - Traffic

Traffic Control Challenges

- No surprises
- Capacity maintained during peak travel around the alignment dependent on caliber of work
- Restrictions limited to active work areas (traffic control will disperse when/where work is completed)
- Coordination with special events, adjacent construction, stakeholders, traffic engineering, Tempe PD
### Tempe Streetcar Project Funding

<table>
<thead>
<tr>
<th>Funding</th>
<th>Amount</th>
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<tr>
<td>Regional/Prop 400</td>
<td>$95 M</td>
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<td>FTA Small Starts</td>
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<td>Federal CMAQ</td>
<td>$19 M</td>
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<td>Tempe/Private</td>
<td>$13 M</td>
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<td><strong>Total</strong></td>
<td><strong>$202 M</strong></td>
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Outreach & Business Assistance
Coordinating with Others

Gilbane
Tempe Commission for Disability Concerns
City of Phoenix – Water
Artists
Tempe Police Dept.
Valley Metro – Operations & Maintenance
Southwest Gas
Brookville
Cousins
FTA
Whole Foods
Public Works Department
Centsury Link
Omni
ASU
Hayden Flour Mill
ADOT
UPRR
Downtown Tempe Authority
Tempe City Council
Tempe Historic Preservation Commission
Four Southern Tribes
Maple-Ash Neighborhood Association
Maple-Ash
Tempe Fire Dept.
SRP
VMAG
Mirabella
Level 3
Nexa
Maricopa County – Environmental Services
Level 3
Tempo Police Dept.
Hayden Ferry Lakeside, LLC.
ATS
Air Products
AT&T
Public Relations
Valley Metro – Operations & Maintenance
Valley Metro – Public Relations
Tempe Historic Preservation Commission
Maricopa County – Environmental Services
Level 3
VMAG
Streetcar Extension Study

- Partnership with Valley Metro, Tempe & Mesa
- Investigate and identify high-capacity rail corridors
- Expand on potential extensions identified in 2014
Next Steps

- SYGA Approval
- Continue Track Installation (2,600’ out of 28,000’ to date)
- Finish utility relocations, including 3rd Party
- First Summer Downtown
- Vehicle Delivery April 2020
- Substantial Completion November 2020
- Open 2021
Thank You!

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