Making Better Decisions by Linking ADA Curb Ramps to PMS Data

Sui Tan, Metropolitan Transportation Commission
Problem Since July 8, 2013:

Department of Justice/Department of Transportation
Joint Technical Assistance on the Title II of the Americans with Disabilities Act Requirements to Provide Curb Ramps when Streets, Roads, or Highways are Altered through Resurfacing
Treatment is a Maintenance When...

<table>
<thead>
<tr>
<th>Crack Filing and Sealing</th>
<th>Surface Sealing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Seals</td>
<td>Slurry Seals</td>
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<tr>
<td>Fog Seals</td>
<td>Scrub Seals</td>
</tr>
<tr>
<td>Joint Crack Seals, Repairs, Dowel Bar Retrofit, Diamond Grinding</td>
<td>Pavement Patching</td>
</tr>
</tbody>
</table>
### Resurfacing is an Alteration when...

<table>
<thead>
<tr>
<th>Overlay</th>
<th>Reconstruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-graded surface course</td>
<td>Micro-surfacing</td>
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<tr>
<td>Thin Lift Overlays</td>
<td>Cape Seals</td>
</tr>
<tr>
<td>In-place Asphalt Recycling</td>
<td>Concrete Pavement Rehab &amp; Reconstruction</td>
</tr>
</tbody>
</table>
Cost of ADA Ramps:

Full-blown 4-corner ramps at Intersection:

$4,000  $10,000
Avoidance:

- Change treatment name from Microsurfacing to “Polymer-modified slurry seal”
- Switch to another treatment
- Business as usual
- ADA Transition Plan – lip service?
Consequences:

• Caltrans settled lawsuit for $1.1 billion for next 30 years
• City of Sacramento – 20% annual budget for curb ramp.
• Your agency -
Current Issues:

• Not having sufficient $ to fund curb ramp in paving projects
• Curb ramps cost additional 30% - 40%
• Shorten project limit?
Current Issues (cont’d):

• Delay paving project?
• Factor curb ramp cost in treatment unit cost
• Not my problem in public works?
Solution:

Build ADA Curb Ramp compliance in long-term capital improvement plan
Asset Management Approach:

• You have pavement management system
• You have integrated pavement preservation strategies in your PMS
• Your know your pavement maintenance needs

Why Not Your ADA Curb Ramp Needs?
Benefits:

• Get your ADA Transition Plan in action
• Improve safety for pedestrian and disabilities
• Reduce financial liability
• Cost savings due to economies of scale
Case Study:

- City of Los Altos
  - Semi rural neighborhood
  - 110 miles of streets
  - Current Pavement condition, PCI = 75
  - Use StreetSaver to manage pavements
# Paving & Curb Ramp Needs

## City of Anywhere

### Needs - Pavement Alterations and ADA Compliance Costs

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Begin Location</th>
<th>End Location</th>
<th>Street ID</th>
<th>Section ID</th>
<th>FC</th>
<th>Surface</th>
<th>PCI</th>
<th>Cost</th>
<th>Treatment</th>
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<tbody>
<tr>
<td><strong>Year: 2015</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ADAMS CT</td>
<td>END</td>
<td>PUTNAM ST</td>
<td>ADAMSR</td>
<td>0100</td>
<td>R</td>
<td>AC</td>
<td>100</td>
<td>$14,740</td>
<td>OVERLAY W FABRIC</td>
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<tr>
<td>ALBANS CT</td>
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<td>0100</td>
<td>R</td>
<td>AC</td>
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<tr>
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### CurbRampID

<table>
<thead>
<tr>
<th>ID</th>
<th>Cost</th>
<th>Work</th>
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<tbody>
<tr>
<td>12dsaqd</td>
<td>$2,000</td>
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<tr>
<td>cr2431</td>
<td>$2,000</td>
<td>Replacement</td>
</tr>
</tbody>
</table>

*Interest: 2.00%  Inflation: 4.00%  Printed: 06/04/2015*
Priority Ranking:

- Capitol improvement program
- Close to pedestrian generators (like business district)
- Close to pedestrian crash locations
Priority Ranking (cont’d):

• Close to other non-compliant intersections
• Close to elderly/disabled (hospitals, nursing homes, senior centers) facilities
• Safe routes to school
Questions?

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