CITY OF LANCASTER

- Population: 160,000
- High Desert City of 94 Square miles
- Lane-miles or roadway = 750
- Flat as a pancake
- Average rainfall +/- 7"
- Temperature range from 5 – 115 degrees
2008 Capital Construction budget = $30,300,000.00
2012 Capital Construction budget = $17,300,000.00
43% Reduction in available funds
0% Reduction in lane miles
**TYPICAL PROCESSES**
- Chip Seal
- Slurry Seal
- Cape Seal
- Mill and Fill
- Pavement Reconstruction
- Full Depth Reconstruction

**ALTERNATIVE METHODS**
- Bonded Wearing Course
- Cold in Place Recycle
- Central Plant Recycle
- Full Depth Reclamation
- Re-HEAT
<table>
<thead>
<tr>
<th>Group</th>
<th>GIS ID</th>
<th>Street Name</th>
<th>Description</th>
<th>Length (ft)</th>
<th>Area (sq. yd.)</th>
<th>Classification</th>
<th>Rehabilitation Type</th>
<th>Estimated Cost</th>
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<tr>
<td>2</td>
<td>1182-1</td>
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WHEN TO USE FDR?

- Overall Condition Index of <30
- Severe pavement distress
- Subgrade failure
- Increased Traffic Index
WHY FDR?

- Eliminates ALL asphalt failures
- Produces stronger base section
- Can reduce HMA or PCC pavement section
- Highly resistant to infiltration
- Fewer traffic related challenges
- Sustainable (Generally no import or export)
- Substantial cost savings over reconstruction
PHYSICAL CONSTRAINTS

CURB AND GUTTER

INCREASED PROFILE
UNCONFINED AREAS
Use excess material to improve shoulder
WEATHER
Emulsion needs warm dry weather to cure

FREEZING TEMPERATURES  WET WEATHER
Equal to or less than conventional methods
It’s the right thing to do!