

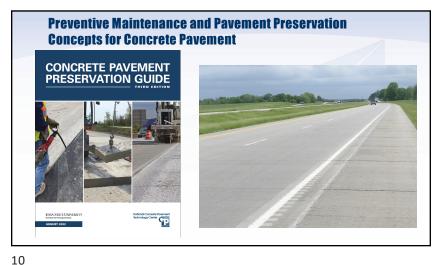
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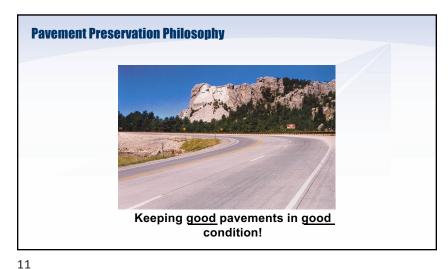


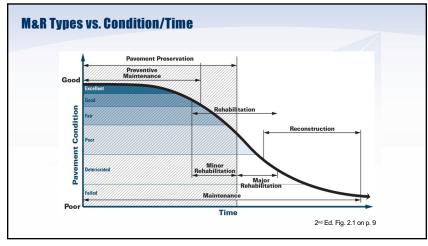


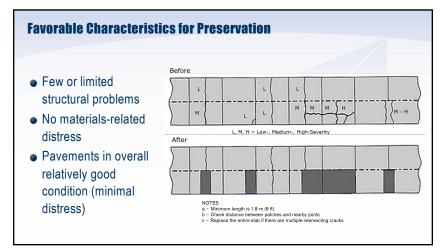














Treatment Sequencing for Concurrent Application

Ilea PUU Shoulders

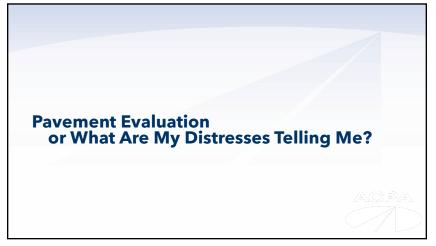
Cross-Stitching/Slot-Stitchin

Dowel Bar Retrofit

Full-Depth Repair

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Pavement Evaluation Overv

Historical Data Collection Records Review
Initial Site Visit and Asse
Initial Site Visit and Asse
Field Testing Activities

Laboratory Materials
Characterization

Data Analysis
Final Field Evaluation Re

Initial Field Evaluation Re

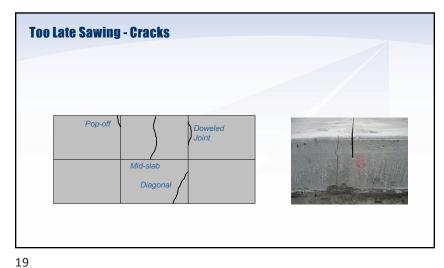
Initial Field Evaluation Re

Initial Site Visit and Asse

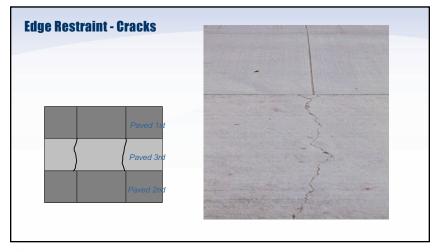
Initial Site Visi

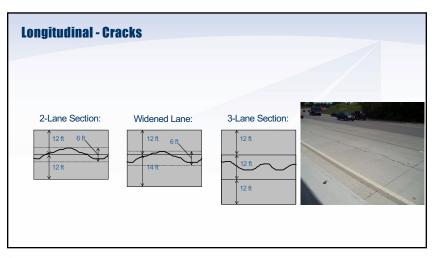
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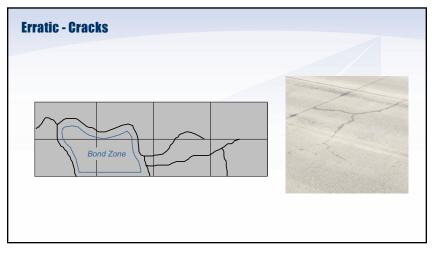


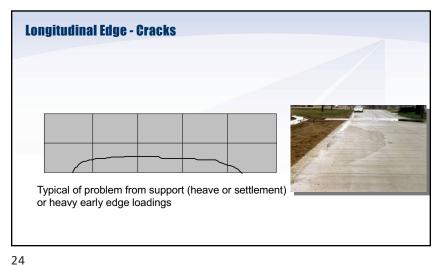
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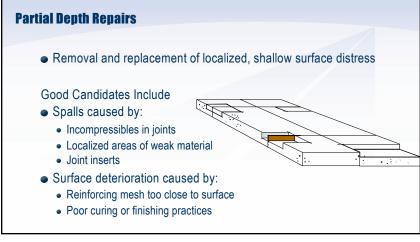


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Concrete Pavement Surface Defects **Distress Assessments** Surface Delamination and Solutions Guide Material-Related Cracks · Transverse and Diagonal Cracking Longitudinal Cracking Corner Cracking Spalling – Transverse and Longitudinal **Joints and Cracks** Faulting · Joint Curling and Warping Blowups Subgrades and Base Support Issues • Continuously Reinforced Concrete Pavement Overlays

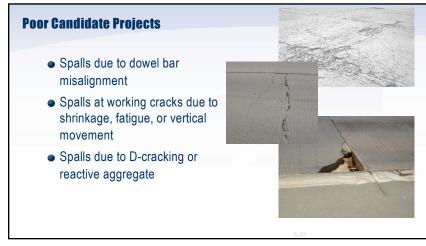


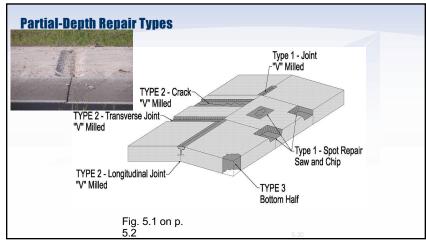
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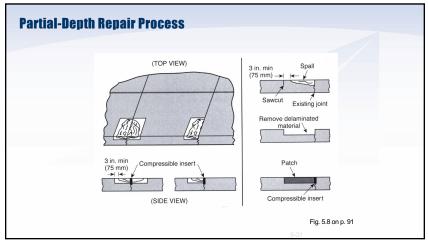


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Rey Factors For Success
Proper selection of candidate projects
Proper material selection
Identification of repair boundaries
Use of joint/crack reformers
Achieving good bond

Patch area clean and dry
Sandblasting sidewalls
Application of bonding agent

Proper placement and curing

31 32



Full-Depth Repairs

Cast-in-place concrete repairs that extend the full-depth of the existing slab

Applications:
Address structural deterioration
Cracks, corner breaks, shattered slabs, buckling
Address severe spalling / joint lock up
Utility cut repairs

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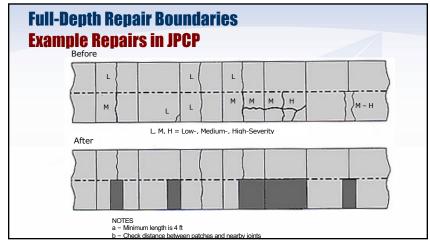


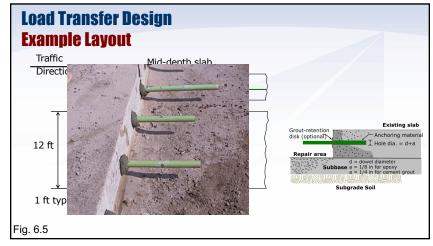
Full-Depth Repair – Limitations

- Does not address structural inadequacy
- Not a long-term solution for material-related distresses (e.g., ASR, D-cracking)
- Not cost-effective for widespread deterioration
- Potentially an expensive cost item

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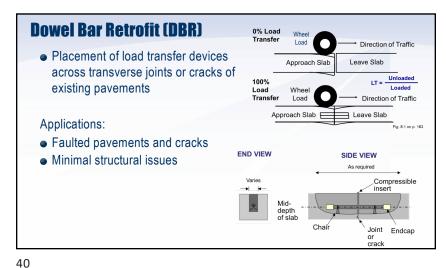
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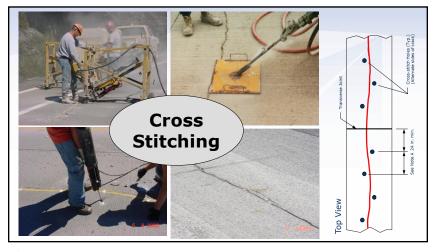


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Removal of thin surface layer of concrete using closely spaced diamond saw blades

Applications:
 Rough pavements
 Loud pavements
 Pavements in need of friction and safety improvements

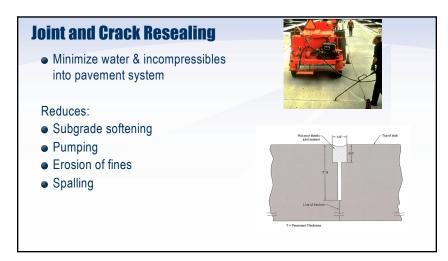
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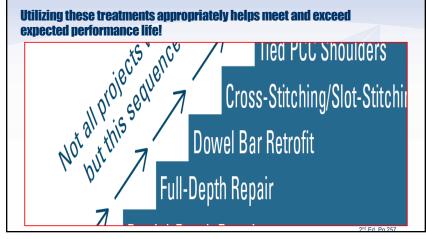




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