BOONE COUNTY STREET RECONSTRUCTION PROGRAM

Micah Taylor, P.E.
Design Engineer
Boone County Resource Management
Topics of Discussion

■ What is a reconstruction/rehab project?
■ How do you choose project areas?
■ Project Design
■ Project Construction
■ Lessons Learned & Suggestions
■ Questions
What is a reconstruction project?

- A reconstruction project is the complete removal of the existing pavement (concrete) and replacing it with a new full asphalt pavement section.
How do you choose project areas?

- Pavement management system.
  - Every other year rate each individual panel in our 24-mile concrete network
    - Rated as “Good”, “Damaged”, or “Replace”
    - Reconstruction candidates have >50% “Damage” & “Replace” area
Project Design

Slap your standard section on the Plans and go

Not Advised

Chances are the subgrade will not be great and you will not have the time or space for drying and compacting

Instead Perhaps:
- Hire geotech to estimate subgrade strength
- Design construction platform based on strength
- Design asphalt layer based on traffic. If established area, traffic should be more predictable for design.

8" Asphalt Pavement
8"-10" Aggregate Base
Geotextile or Geogrid
Subgrade
Project Construction

Step 1: Saw Cut Gutterlip

Step 2: Curb and Gutter Repair

Step 3: Pavement Removal/Excavation
Project Construction

Step 4: Fabric & Base Rock Installation

Step 5: Asphalt Paving
Lessons Learned & Suggestions

■ Communication is key
  - *Resident Outreach*
    ■ Meetings, postcards, & construction updates

■ Evaluate all infrastructure in the area
  - *Stormwater & utilities*
    - *Best time for upgrades, replacements, or relocations*

■ Design for the future

■ Protect the investment
Questions?

Thank you

Micah Taylor, P.E.
Design Engineer
Boone County Resource Management
537-886-4480
mtaylor@boonecountymo.org