CAPITAL PAVEMENT IMPROVEMENTS TO THE STATE HIGHWAY SYSTEM
CAPM, 2R and 3R Project Decision Tree
October 2, 2019

Collect Pavement Condition Data & Place in Pavement Management System (PMS)

Evaluate PMS Triggered Locations by Pavement “Needs” (Distress Modes)

Is Pavement Distress Major?

No

Perform Safety Screening for Proposed Project Limits

Yes

Are Pavement Distress Major?

No

Evaluate PMS Triggered Locations by Pavement “Needs” (Distress Modes)

Yes

Are there identifiable Collision Patterns that are Correctable?

No

Are there Cost-effective Traffic Operation Strategies that address the Collision Pattern(s) identified?

Yes

No

CAPM Projects
20.xx.201.121
Minor Pavement Rehabilitation
- Use Design Information Bulletin (DIB) 81
- Intent is to improve ride & preserve serviceability
- Repair Strategies are to be easily constructible, minimize traffic disruption, and relieve Maintenance Crews from intensive activities.

2R Projects
20.xx.201.122
Major Pavement Rehabilitation (Pavement Focused)
- Use Design Information Bulletin (DIB) 79
- Intent is pavement restoration; returning a roadway with identified structural deficiencies to the condition existing after original construction
- Include Pedestrian Accessibility features
  - See DIB 82 for additional guidance
- Include Bicycle features as needed
  - See HDM Chapters 300, 1000 and DIB 89 for guidance
- Include Storm Water Management features
  - See the Project Planning and Design Guide (PPDG) for additional guidance
- Include traffic operation strategies such as signing, striping, and protection devices as needed.
- Include Drainage repairs for structural deficiencies and restoration of function and capacities as needed.

3R Projects
20.xx.201.120
Major Pavement Rehabilitation
- Use Design Information Bulletin (DIB) 79
- Intent is pavement rehabilitation & replace/upgrade other highway appurtenances which are failing, worn out or functionally obsolete

Establish Scope of Candidate Project

Pavement Structure Repairs & Costs
- Traveled Way
- Shoulders
- Ramps
- Pavement Drainage
- Evaluate Constructability of Repairs
- Evaluate Traffic Management Scheme(s)

Non-Pavement Features & Costs
- User Safety features
- Worker Safety features
- Geometric Design features
- Pedestrian Accessibility features
- Bicycle Accommodation features
- Roadside Safety features
- Drainage features
- Structure (Bridge) features
- Storm Water Management features

Field Review Candidate Project Location
- Select Pavement Repair Strategy(s) and Limits
- Confirm Project Limits
- Determine Non-Pavement Features to Include or Defer to Another Project
- Confirm Available Work Windows & Traffic Management Scheme(s)

Confirm Pavement Repair Category

Determine Project Costs, Perform Life Cycle Cost Analysis & Select Project Alternative