Start

SSF > 20% or DCR > 20% or (SES >= 25% and SEJ >= 25%) or SES >= 50% or SEJ >= 50% or BRO > 20%

YES

Last Rehab = Maj CPR

YES

Age > 40 Years

YES

Do Nothing

NO

SSF >= 20% or BRO >= 20%

YES

DCR > 20% or BRO > 20%

YES

Maj CPR & Plane

NO

Unbonded Overlay

Curb

YES

Reinforced Concrete

YES

Reinforced Concrete

YES

Unbonded Overlay Rubblize

CD Rural

NO

Unbonded Overlay Crack & Seat

CD Rural

NO

Unbonded Overlay Crack & Seat

CD Rural

Last Rehab = Maj CPR

YES

Age > 40 Years

YES

Maj CPR & Plane

NO

Do Nothing

NO

RQI > Trigger Value

YES

Age > 15 Years

YES

Joint Seal

NO

Last Rehab = Major CPR

YES

Do Nothing

NO

Last Rehab = Minor CPR

YES

Thick Overlay

NO

RQI > Trigger Value

YES

Age <= 17 Years

YES

Minor CPR

NO

Age > 40 Years

YES

Maj CPR & Plane

NO

Do Nothing

NO

RQI > Trigger Value

YES

Age <= 17 Years

YES

Minor CPR & Plane

NO

Age > 40 Years

YES

Maj CPR & Plane

NO

Do Nothing

NO

Last Rehab = Diamond Grind

YES

Minor CPR & Plane

NO

Minor CPR & Plane

Thick Overlay

Network Level Concrete Decision Tree (06/21/12)

List of Fixes in this Decision Tree
- Do Nothing
- Joint Seal
- Minor CPR
- Thick Overlay (Over 4’)
- Rubblize & Thick Overlay (Rubblize)
- Crack/Seat & Thick Overlay (Crack & Seat)
- Unbonded Overlay
- Full Pavement Replacement (CD Rural) (CD Urban)
- Minor CPR & Diamond Grind (minor CPR & Plane)
- Major CPR & Diamond Grind (Maj CPR & Plane)

Distress Codes
SLS = Slight Transverse Spall
SES = Severe Transverse Spall
SLJ = Slight Longitudinal Spall
SEJ = Severe Longitudinal Spall
DCR = D-Cracking
BRO = Broken Panel
SSF = Patch > 5 Square Feet

Trigger Values
RQI | SP | DRI
---|---|---
Rural Principal Interstate 3.0 | 2.7 | 3.0
Rural Principal Arterial 3.0 | 2.7 | 2.9
Rural Minor Arterial 2.8 | 2.5 | 2.8
Rural Major Collector 2.8 | 2.5 | 2.6
Rural Minor Collector 2.8 | 2.5 | 2.6
Rural Local 2.7 | 2.4 | 2.5
Urban Arterial 3.1 | 2.7 | 3.0
Urban Principal Arterial Freeway 3.1 | 2.7 | 2.9
Urban Principal Arterial 2.8 | 2.5 | 2.9
Urban Minor Arterial 2.7 | 2.4 | 2.8
Urban Collector 2.6 | 2.4 | 2.6
Urban Local 2.5 | 2.4 | 2.6

- Preventive Maintenance
- Rehabilitation
- Reconstruction