

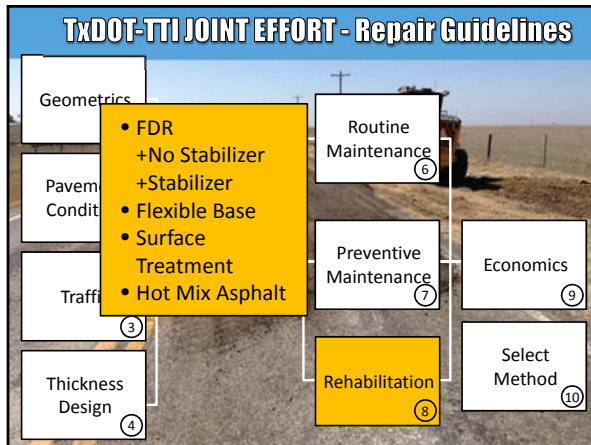
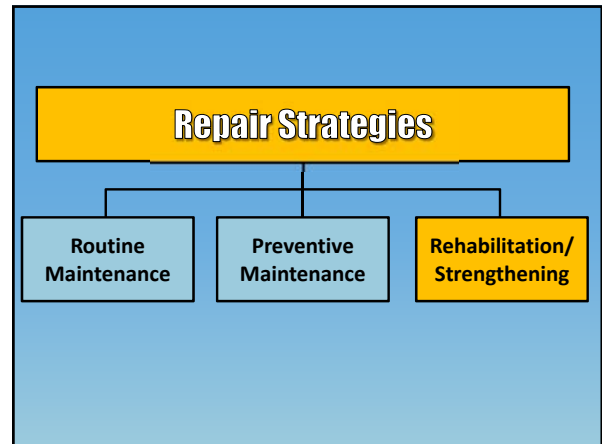
Rehabilitation

PP-16-11

Maintenance Division
Inter Agency Contract

Summer 2016





STEP 8 REHABILITATION

- Maintenance crews
- Maintenance contract
- Construction contract



STEP 8 REHABILITATION

- Widen the pavement
 - 28 to 32 ft. minimum
- Improve structural strength
- Longer term solution
- Full Depth Recycling (FDR)



STEP 8 REHABILITATION



Yoakum





**STEP 8 – REHABILITATION
Subbase**

- Full Depth Recycling (FDR)
- 6 to 8 in. typical for FDR
- Without stabilizer
- 2 % portland cement modification
- Asphalt emulsion
- Foamed asphalt
- Fly ash with or without portland cement or lime

**STEP 8 – REHABILITATION
Base**

- Flexible base (6-12 in.) (Type A, Grade 1 or 2)
- Cement modified flexible base (2%)
- Salvaged base
- Cement modified salvaged base
- Hot Mix-Cold Laid (HM-CL)
- Limestone Rock Asphalt (LRA)

**STEP 8 – REHABILITATION
Surface**

- Surface treatments
 - Single (Grade 3,4 and 5)
 - Double (Grades 3 and 4, 4 and 5, 4 and 4)
 - Triple (Grades 3, 4 and 5)
- Hot Mix-Cold Laid (HM-CL)
- Limestone Rock Asphalt (LRA)
- Hot Mix Asphalt (HMA)

**STEP 8
REHABILITATION**

- Comments
 - Widths 28 to 32 ft. minimum
 - Surface treatments are very popular
 - HMA should be a minimum of 4 inches
 - Districts use emulsified asphalts
 - Contractors hot applied binder (TR, P)
 - New flexible base added to FDR
 - Inverted primes (RC-250, Gr. 5) on base common


STEP 8 REHABILITATION

- Comments
 - Consider subgrade stabilization
 - Trap water in flexible base
 - Keep base dry
 - Portland cement modification with base?
 - Ride quality with surface treatments?
 - Must construct under traffic



Rehabilitation Documents

Document Number	Title
ESB-14-01	TxDOT/TTI Joint Effort to Address Roadway Damage Resulting from Energy Development
ESB-15-06	Pavement Strengthening
IR-14-01	Current TxDOT Practices for Repair of Road Damage Associated with Energy Development and Production



Documents available on TxDOT Maintenance Division SharePoint site at <https://txdot.sharepoint.com/sites/division-mnt/site/pages/home.aspx>