



South Dakota Airport Conference

A New Option for Pavement Rehab Full Depth Reclamation

Developed & Presented by: Travis Hirschey



Introduction to Speaker

- Project Manager/Civil Engineer
- 8 Years of Aviation Engineering Experience
- Based Out of Rapid City, SD
- Master Business Administration – UND
- B.S. Civil Engineering – South Dakota Mines



Travis Hirschey, PE

Key Discussion Points



What is Full Depth Reclamation?



Where can Full Depth Reclamation be Used?

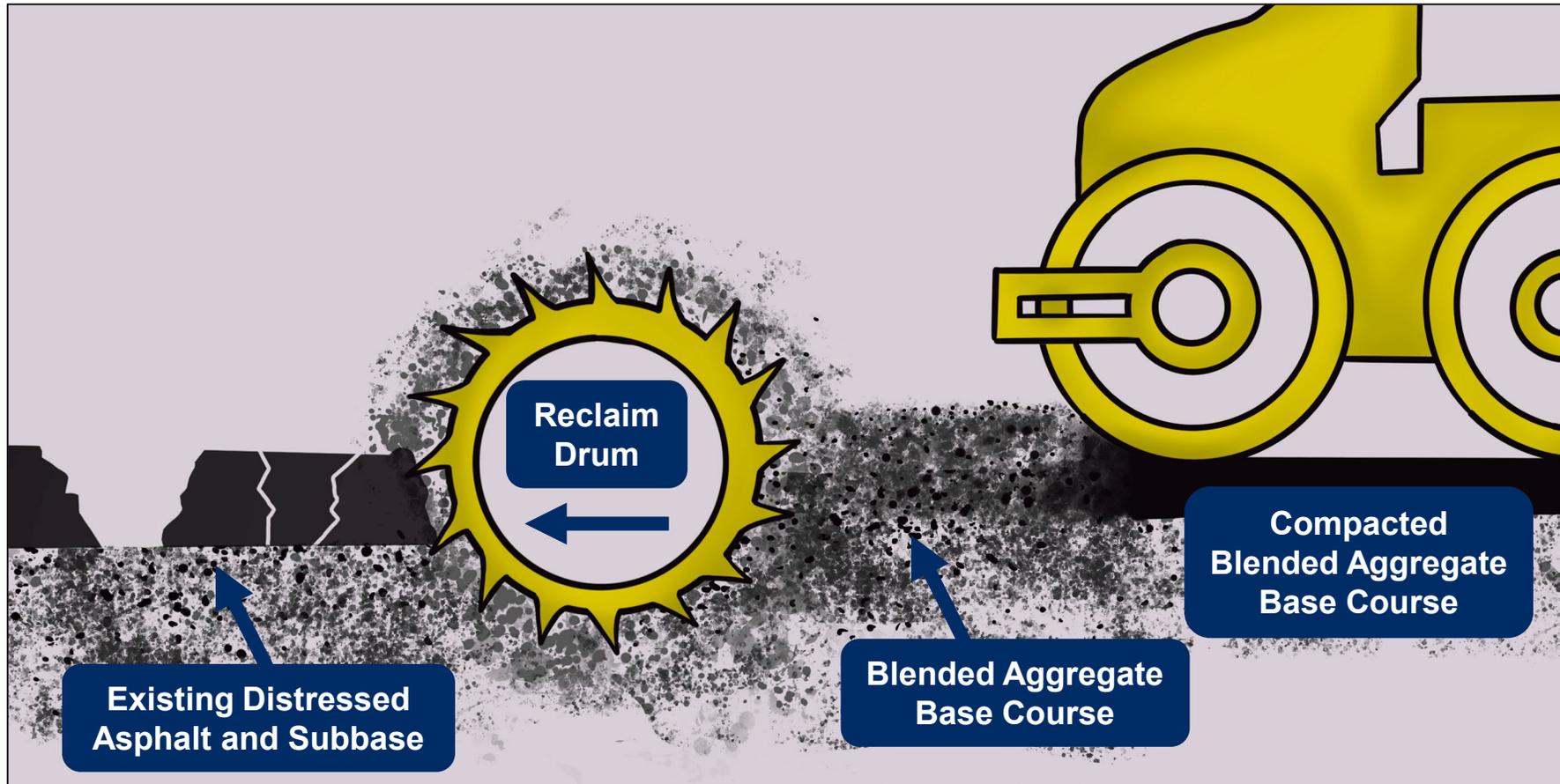


Why is Full Depth Reclamation an Option Now?

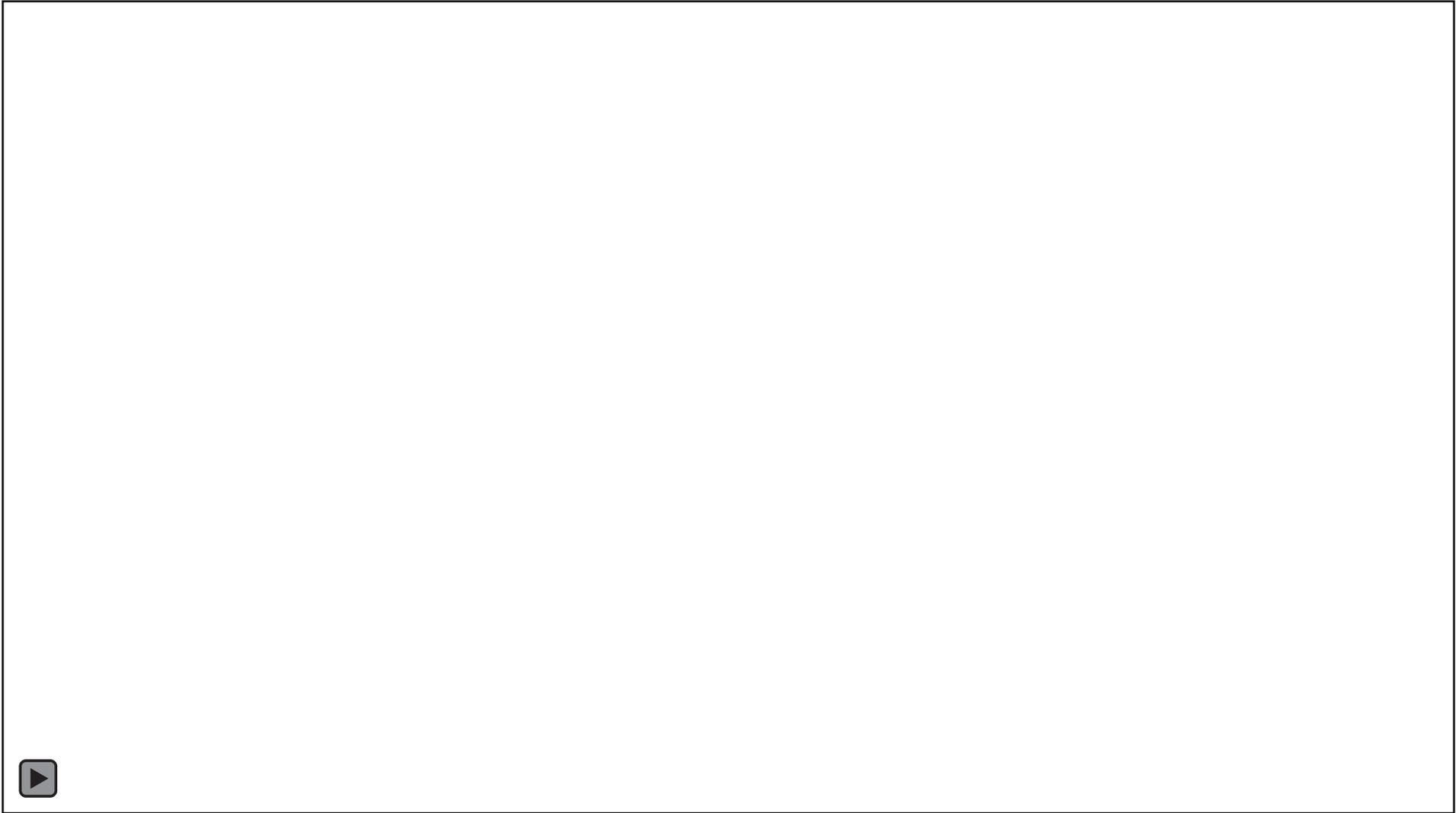


Why haven't we seen Full Depth Reclamation in the Past?

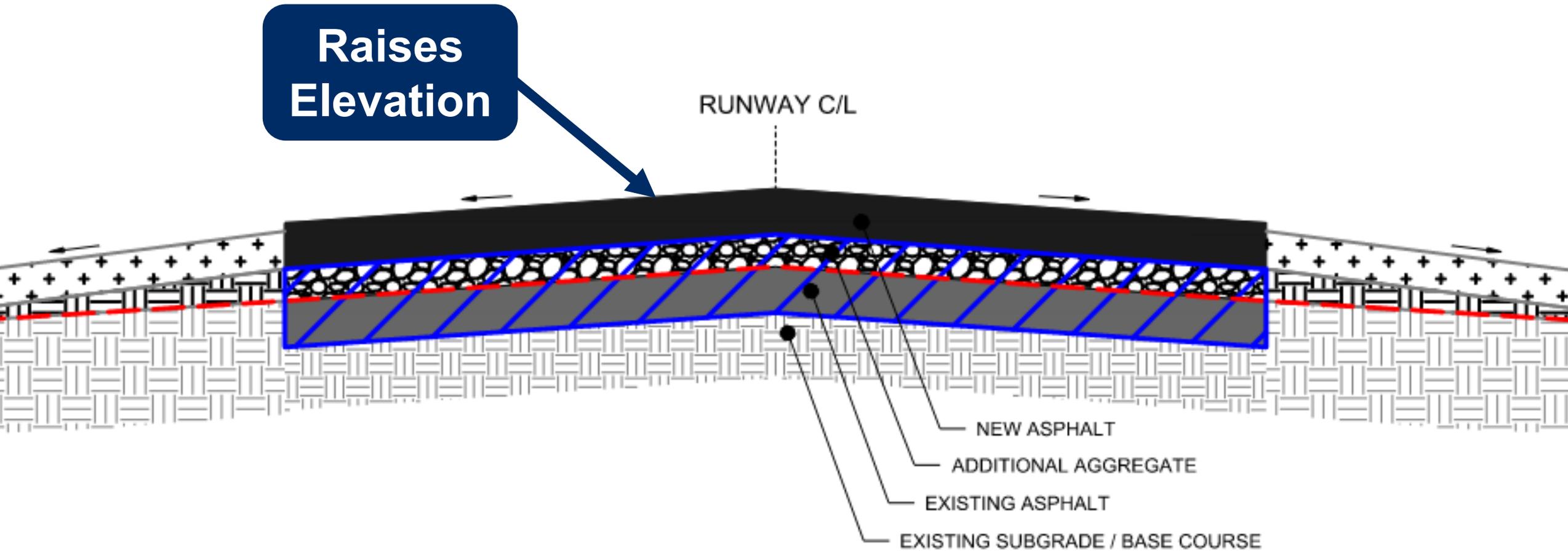
What is Full Depth Reclamation (FDR)?



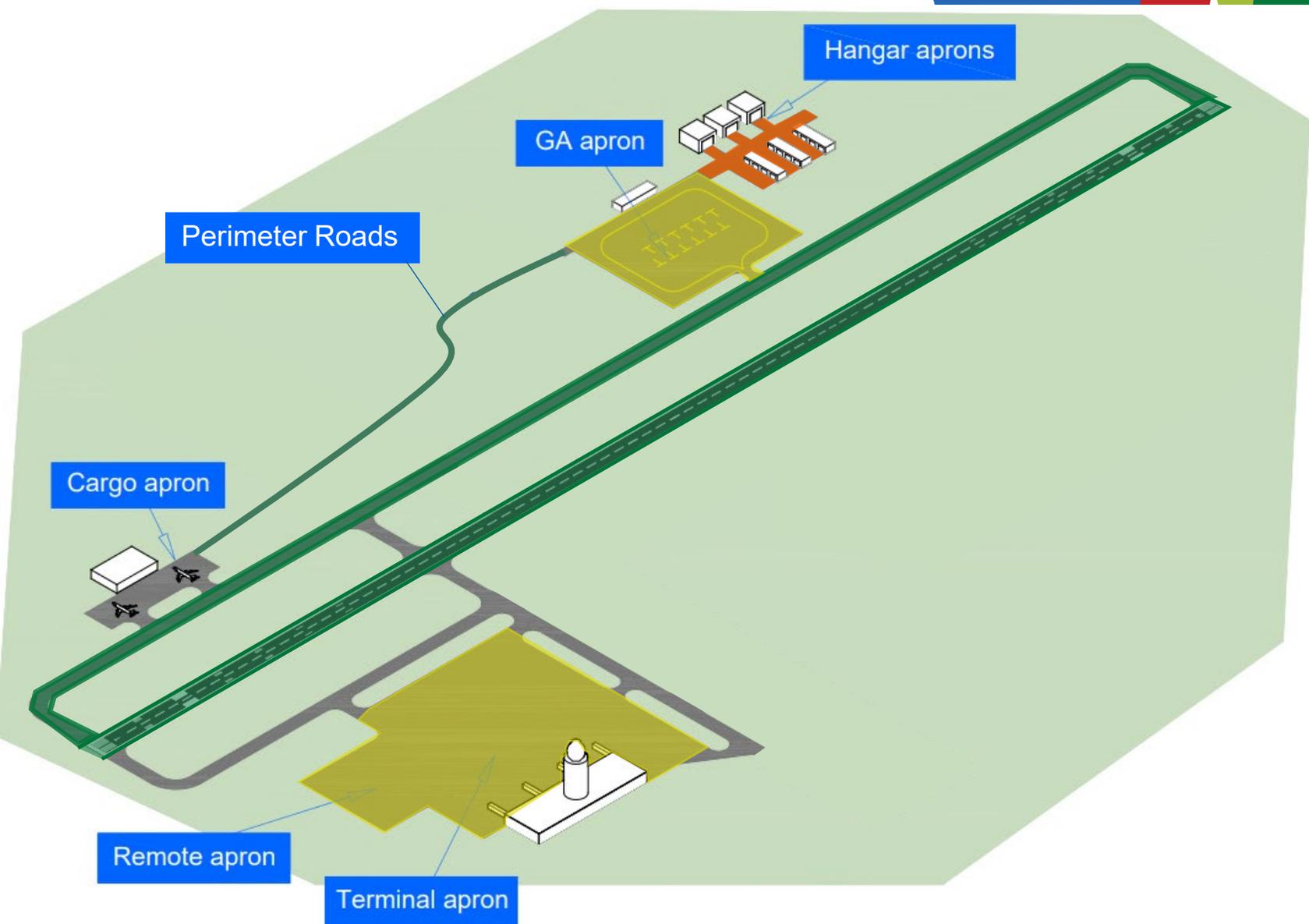
Full Depth Reclamation Process



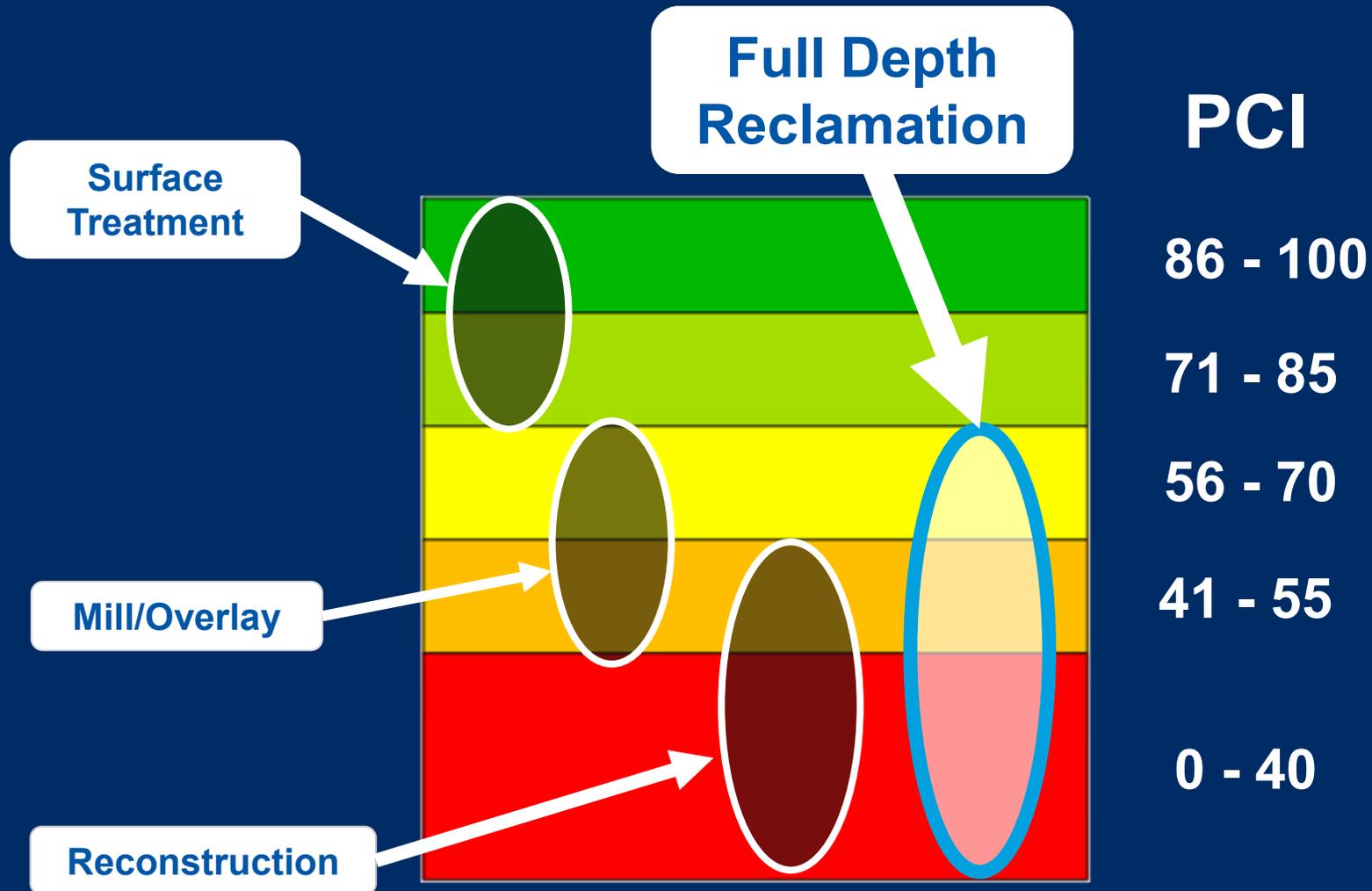
What is Full Depth Reclamation (FDR)?



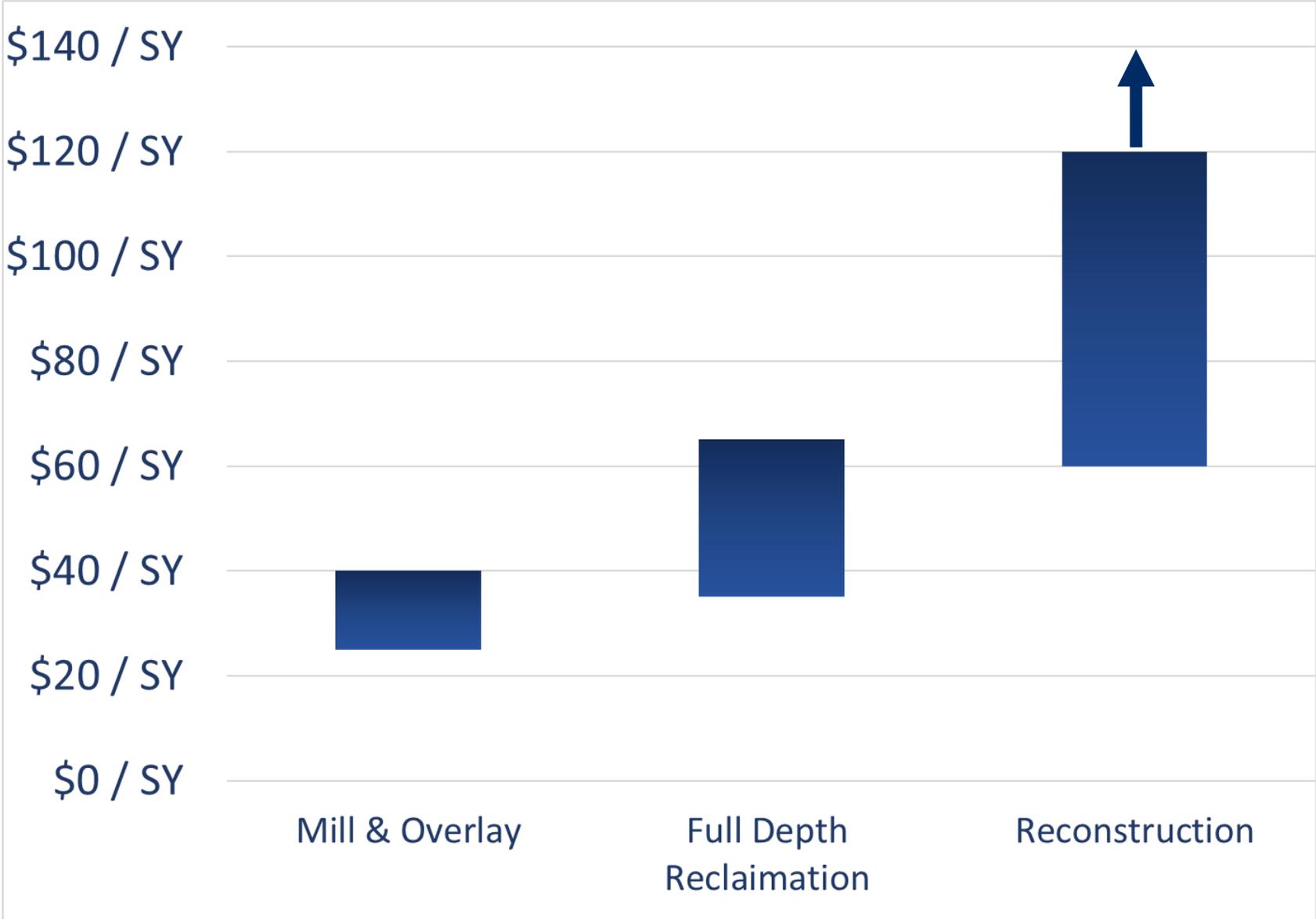
Where Can FDR be Used?



When is Full Depth Reclamation an Option?



Cost Comparison



Make Every Penny Count!



Benefits of Using FDR

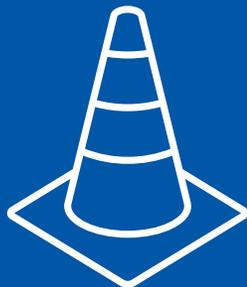
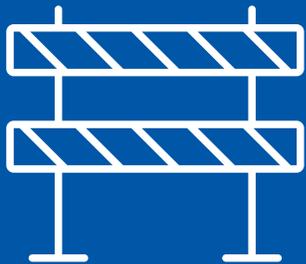
Sustainable Construction



Flexibility to Fix Issues



Minimal Disruption



Reduced Maintenance



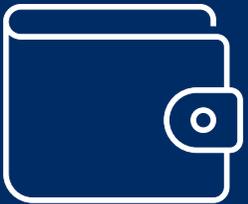
FDR Considerations



Drainage Improvements



Existing Conditions



Higher Initial Costs

Why Haven't You Seen FDR Used in the Past?

2018: FAA Releases First FDR Specification

Construction Costs Increase Significantly

2022: FDR Processes Begin Being Used on Airports in the Dakotas

State DOT Successfully Start Using FDR Processes

1950s: Development of Reclaiming Equipment

Project Examples

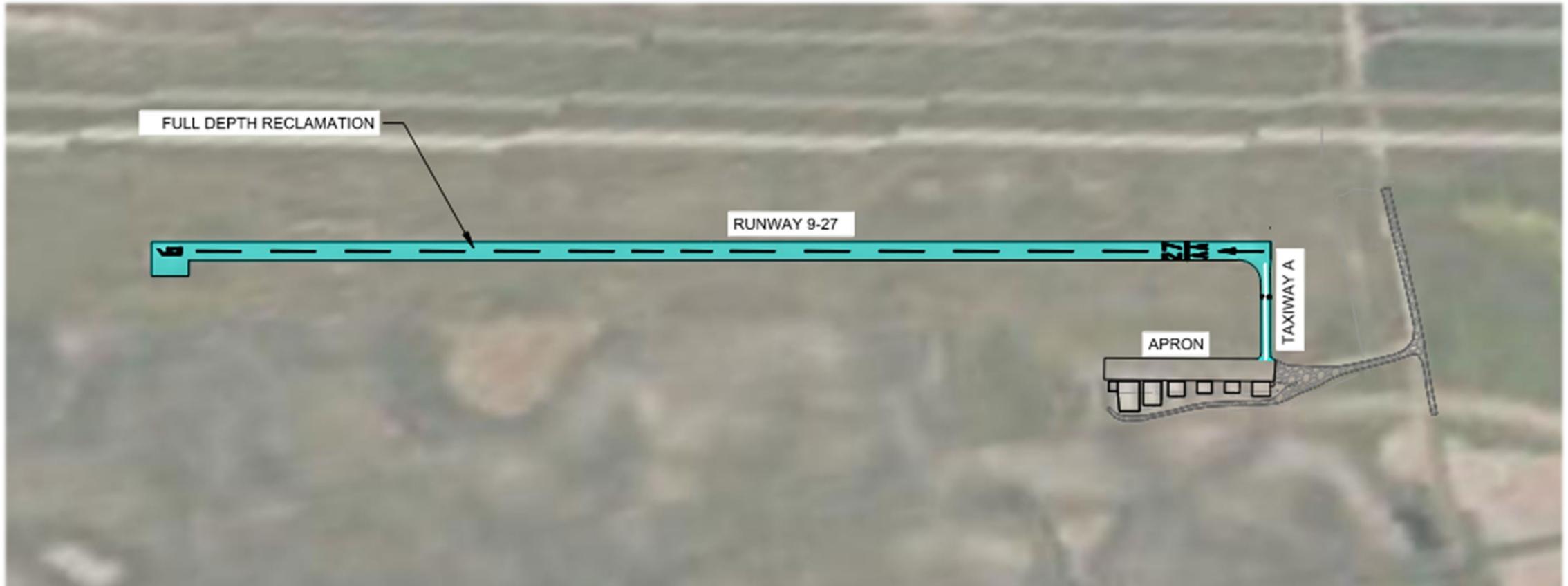
Runway 14-32 – Westhope Municipal Airport



Project Examples

Runway 9-27 – Leeds Municipal Airport

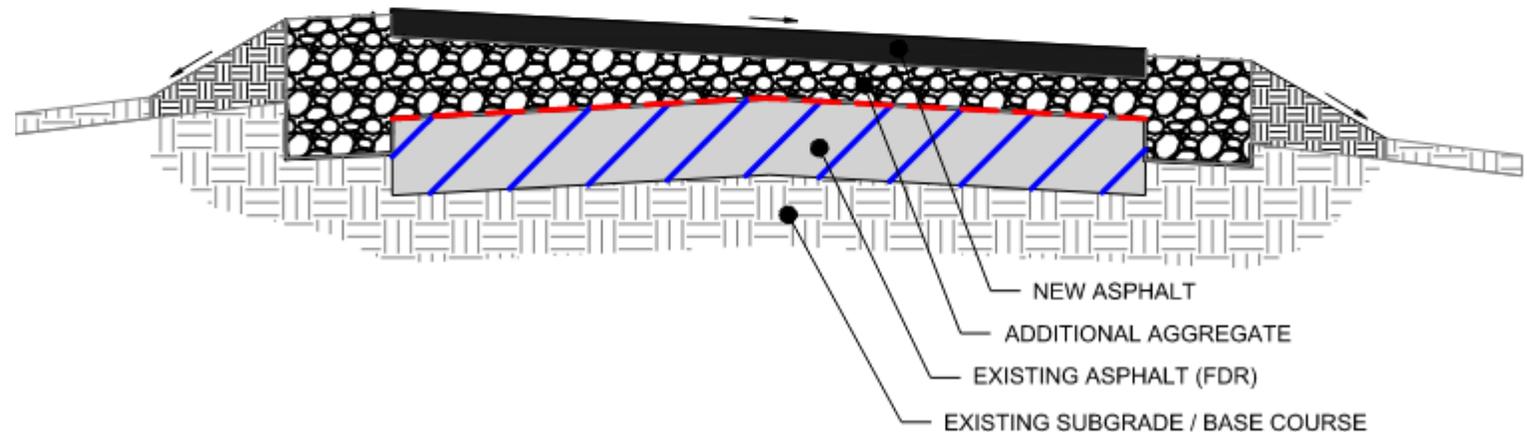
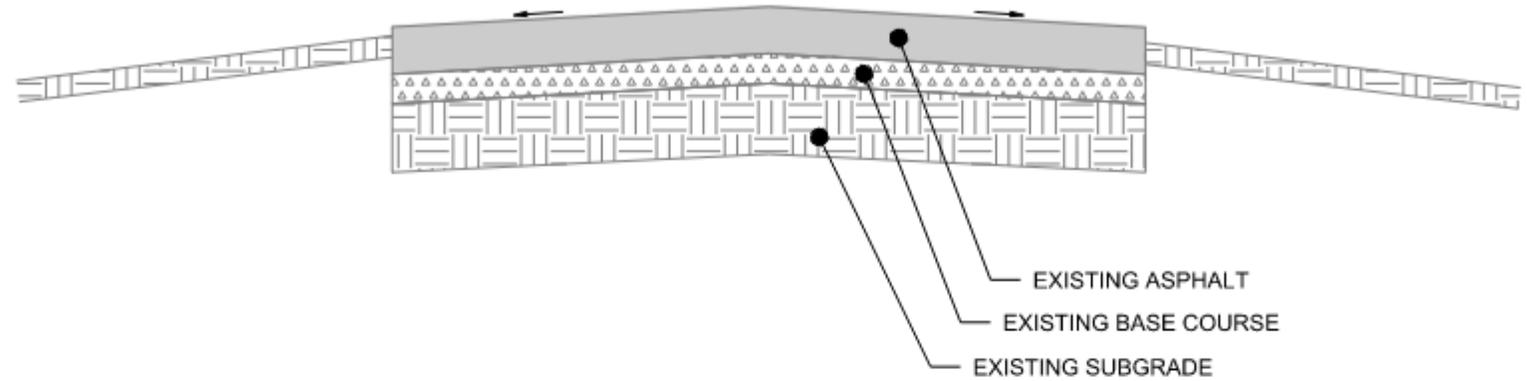
- Raised Profile 5 Inches
- Saved Cost of Reconstruction



Project Examples

Perimeter Roads at Hector International Airport

- Drainage Improvements by Building Up
- Keep & Improve Strength



Project Examples

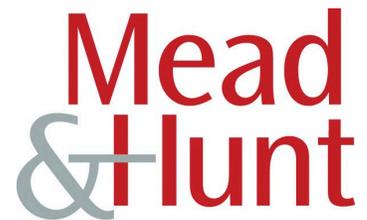
Perimeter Roads at Hector International Airport





Summary

- Make Every Penny Count!
- Minimal Disruption
- Sustainable Solution
- History of Success



Questions?



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