Southern Ohio Veterans Memorial Highway
State Route 823
PROJECT ROUTE

- Project Location
  - Scioto County
  - 90 miles south of Columbus, OH
  - 100 miles east of Cincinnati, OH
Completes Appalachian Highway in Ohio

The Appalachian Highway system is designed to:

• Generate economic development;
• Connect Appalachia to interstate system;
• Improved Regional & National market access.

Currently the “through” traffic disburses over 6 different routes

Reduces current 26 mile travel time by avoiding:

• 30 traffic signals,
• 80 intersections,
• 500 driveways

Improves safety and congestion
Traditionally:
Design-Bid-Build (DBB)

“Alternative Delivery”:
Design-Build (DB)

Public Private Partnership (P3)

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| Contract Length   | 1-5 years | 1-5 years | 20-30 years |
Identified Benefits of the P3 Delivery:

- Accelerates delivery of the project by 17 years
- Allows ODOT to pay for the project over longer period
- Achieves competitive, firm fixed price
- Single phase instead of 3 different phases
- Efficiency due to economy of scale
- Risk transfer to private sector
  - Construction, finance, operation & maintenance risks transferred to Developer
- Effective long-term warranty through O&M contract
PROJECT SCOPE

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  - 16-mile, 4-lane, limited access highway through mountainous terrain of SE Ohio
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  • High fill embankments (> 180’) and deep culverts (> 170’)

PROJECT SCOPE
Design broke down in buildable units to expedite start of construction.
Project broke down in segments with balanced earthwork quantities.

Allows construction to be performed in the different Segments concurrently and independently.
PROJECT TIMELINE

Financial Close

NTP: Design Work start

Commencement of Construction

Substantial Completion Date

Final Acceptance Date

Operating Period: 35 years

Construction Period: 3 years – 8 months

End of Term Dec. 2053

Funding of Handback Reserve

CONSTRUCTION PERIOD: 3 years – 8 months

120 days

2 years

April 2015

June 2015

Dec. 2018
CONSTRUCTION PROGRESS

- **EARTHWORK**
  - 20.5 million CY of excavation
  - 19.5 million CY moved

- **STRUCTURES**
  - 22 bridges
  - 7 bridges completed
  - 13 bridges with girders installed

- **DRAINAGE**
  - All mainline culverts complete
  - 60% top drainage installed

- **304/PAVING**
  - 25% pavement installed
CONSTRUCTION PROGRESS

**MANPOWER**
- Over 350 Craft personnel onsite at peak
- More than 1 million man-hours worked to date

**EQUIPMENT**
- Over 350 pieces of major equipment
  - 6 EA -1200 Excavators (10 CY)
  - 30 EA- 50 TON Trucks
A LONG TERM COMMITMENT

○ After DB:

  • Developer provides **fixed** price DB & FOM – $430M
  • ODOT repays the Developer upon completion of construction during the 35 year operating period in monthly payments, subject to deductions for availability and performance.
  • Developer will “own” what they build for 35 years; any cost overruns or defects in the project are the responsibility of the Developer.
  • Developer will perform routine maintenance (e.g. roadside sweeping, vegetation removal) and major maintenance (e.g. bridge repair).
  • After 35 years of operations, developer hands back roadway to ODOT in proper condition.
- Private Activity Bonds
- TIFIA
- Equity
- 70%, 80% and SC Milestones
O&M

- Operation and Maintenance
  - 35 years begins at Substantial Completion (2018 to 2053)
  - Routine and preventative maintenance of all features
  - Asset scoring regime: routine safety inspections, biennial bridge inspections
  - Pavement conditions checked by ODOT
  - Operational management of:
    - adverse weather impacts
    - damage to project facilities
    - complaint resolution together with ODOT
    - monitoring and clearance of obstruction and debris including rock falls
  - Scheduled interventions for paving, bridges, fence, striping, etc
  - ODOT retains:
    - Snow Plowing
    - Emergency Management
    - Road Weather System
    - Energy costs
Questions?