



Virginia Asphalt Association Conference

Presentation:

I-64 and I-264 Pavement Rehabilitation Project

VDOT Hampton Roads District

Challenges and Successful Outcome

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I-64 and I-264 Pavement Rehabilitation VDOT Hampton Roads District

Presentation

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I-64 and I-264 Pavement Rehabilitation VDOT Hampton Roads District

- **Project Overview**
- **Complex Project**
- **Unique Project with Many Challenges**
- **Meeting the Challenges**
- **Lessons Learned**
- **Successful Outcome**
- **Q&A**

I-64 and I-264 Pavement Rehabilitation VDOT Hampton Roads District

Roadway conditions as of March 2013

- I-64 and I-264 due for major rehabilitation



I-64 and I-264 Pavement Rehabilitation VDOT Hampton Roads District

Roadway conditions as of March 2013

- Significant traffic volume and truck weight increase since original construction
- Aging highway, deterioration from weather and time

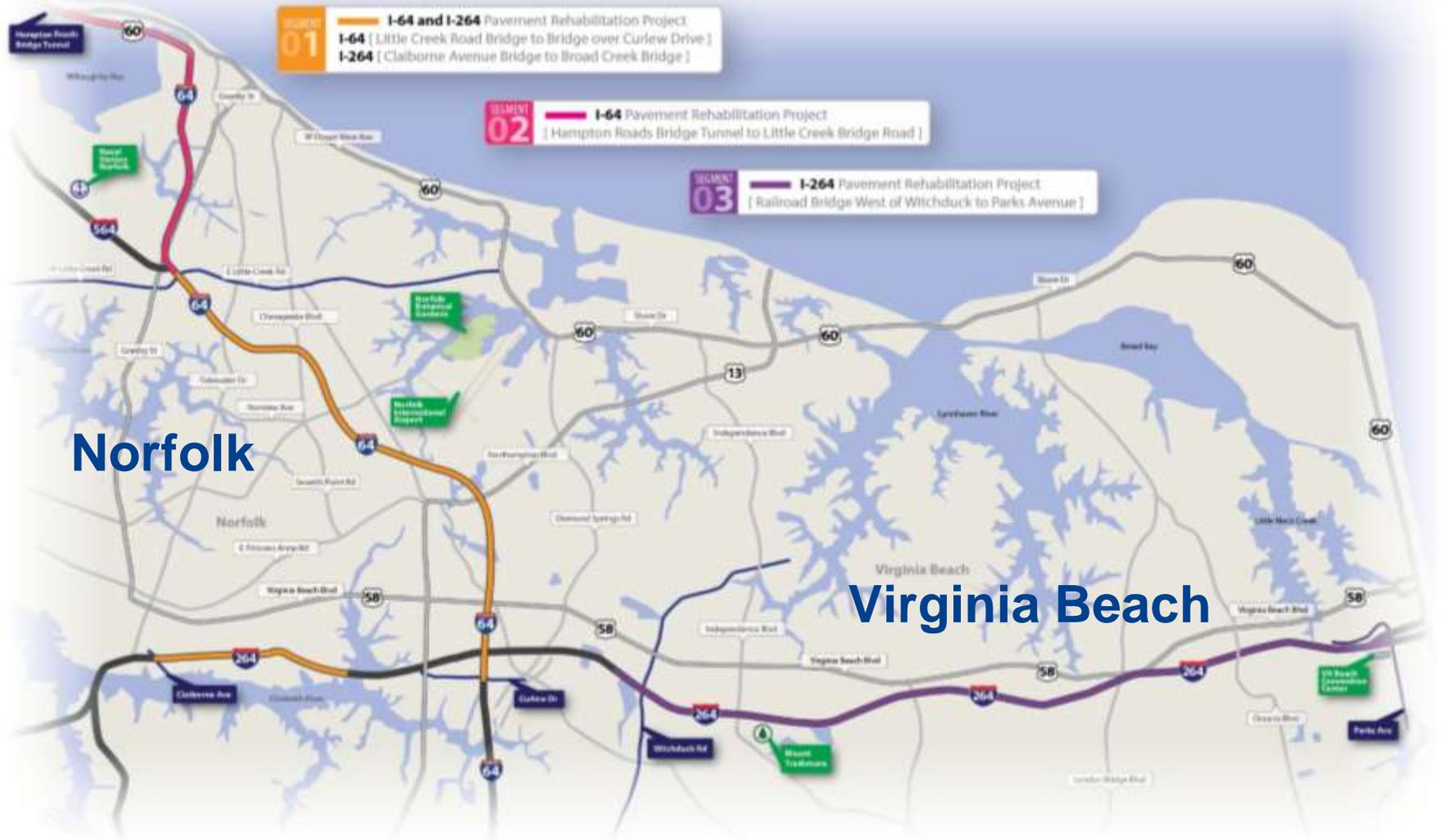


I-64 and I-264 Pavement Rehabilitation Project Overview

Complex project: I-64 and I-264 Project in Hampton Roads

- **\$128 million project**
- **163 lane miles of eastbound and westbound interstate segments**
- **Concrete patching and asphalt pavement**
- **Adjustments to drainage structures, barriers and guardrails; minor drainage improvements; pavement markings; safety improvements**
- **18 months of construction**

I-64 and I-264 Pavement Rehabilitation Project Overview



Norfolk

Virginia Beach

I-64 and I-264 Pavement Rehabilitation Project Overview

**Project divided into three segments and managed by
VDOT as one project**

Segment 1: 10 miles | 67 lane-miles

**I-64 from Little Creek Road Bridge to Bridge over Curlew Drive
and I-264 from Claiborne Avenue Bridge to Broad Creek Bridge**

Segment 2: 5 miles | 20 lane-miles

I-64 from HRBT to Little Creek Road Bridge

Segment 3: 12 miles | 76 lane-miles

**I-264 from Railroad Bridge West of Witchduck Road
to Parks Avenue**

I-64 and I-264 Pavement Rehabilitation Challenges

Unique project with many challenges

- Project area over 2 cities: Norfolk and Virginia Beach
- Multiple construction activities
- Night work



I-64 and I-264 Pavement Rehabilitation Challenges

Unique project with many challenges

- Long Work Zones
- Lane Closures
- Exit Closures
- Detours



I-64 and I-264 Pavement Rehabilitation Challenges

Unique project with many challenges

- Scheduling
- Maintenance of Traffic
- Coordination with emergency responders
- Public perception



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Design and Construction with Successful Outcome

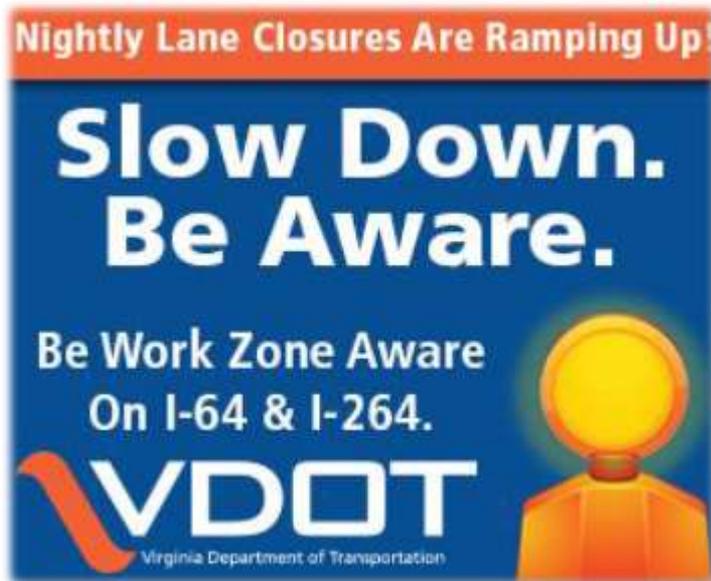
- Road conditions required accelerated procurement by VDOT
- Design-Build Project
- 3 Contractors and VDOT align toward the same goal
- VDOT leadership supports high visibility Project



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Project Priorities

- Safety
- Maintenance of Traffic (MOT)



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Building relationships among key stakeholders

- **VDOT**
- **Contractors**
- **Transportation Operations Center**
- **Cities of Norfolk and Virginia Beach**
- **Safety Service Patrol (SSP)**
- **Virginia State Police and Emergency Responders**
- **Media**
- **Traveling Public**

I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

VDOT and Contractor Collaboration



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

VDOT and Contractor Collaboration

- **Open, two-way communications**
- **Weekly Project meetings**
- **Contractor Coordination meetings**



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

VDOT and Contractor Collaboration

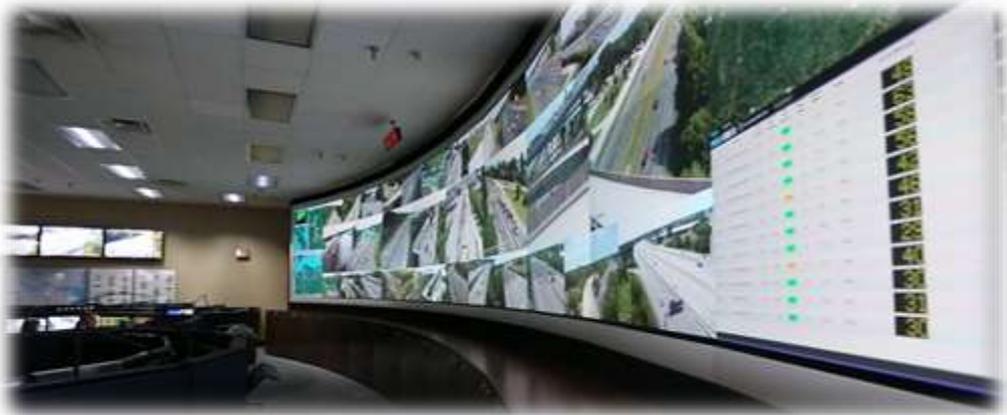
- Risk identification and risk management
- VDOT provides support and resources
- Flexibility: Design, Approvals, Allowable work hours
- Obstacles and Solutions



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Successful Scheduling

- Lane closures managed weekly
- Project managed within region-wide work
- Work suspended during holidays and significant events
- Minimize motorist and tourist impacts



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Successful public outreach

- Three segments managed as one PR project
- Proactive public outreach during all phases
- Continuous media traffic alerts
- Project updates provided to media and public



I-64 and I-264 Pavement Rehabilitation Meeting the Challenge

Public outreach focus on safety

- Outreach focuses on safety for motorists and project crews
- Weekly, monthly, quarterly communications to cities, employers, business groups, civic leagues to sustain project and safety awareness
- Direct outreach, meetings, email and advertising



I-64 and I-264 Pavement Rehabilitation Lessons Learned

Lessons Learned: Project Management

- **60 days from NTP to start of construction: Difficult to develop submittals in short amount of time**
- **Specify reconciliation/hold points at Preconstruction: Project Records should be reconciled/completed to date to expedite the Project Closeout**
- **Separate out the TMP early from the design would expedite review processes**
- **CADAC has a steep learning curve**
- **Disputes handled well, but timeliness of reconciliation encouraged**

I-64 and I-264 Pavement Rehabilitation Lessons Learned

Lessons Learned: Design and Construction

- **Proposed DOR to accept liability for Design Build Projects**
- **Constant nightly milling activity created excessive claims: Revising means and methods to only mill when and where necessary reduced citizen claims**
- **SMA was difficult at lower temperatures: Contractor utilized new equipment and strict tolerances with the SMA stone used in the mix**

I-64 and I-264 Pavement Rehabilitation Lessons Learned

Lessons Learned: Claims

- **The claims process to be addressed and defined at Preconstruction**
- **Contractor took responsibility for citizen claims satisfying public needs**

I-64 and I-264 Pavement Rehabilitation Lessons Learned

Lessons Learned: Shoulder, Lane and Ramp Closures

- Closure process to be reviewed during the Preconstruction Meeting
- Review to include detail, concise hours, requirements, expectations, emergency notification, response plan, matrix of communication and special events

I-64 and I-264 Pavement Rehabilitation Lessons Learned

Lessons Learned: Public Relations

- Three projects handled as one PR program
- VDOT takes the lead, supported by contractors' PR
- VDOT's process evolved to broader PR press releases; much more effective and accurate
- Press releases include clear location closures to provide concise and effective information to the public

Successful Outcome

I-64 and I-264 Pavement Rehabilitation Project

- Completed on time
- Extends the useful life of Hampton Roads' major highways by more than 15 years
- Result in a smooth, safe driving surface for motorists



Questions & Answers