2009-19 Engineering Outlook

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Hampton Roads District
Assistant District Administrator, Engineering & Planning

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Old Dominion University
Civil and Environmental Engineering Visiting Council

Presentation available online @
www.vdot.virginia.gov
THE MISSION

Plan, deliver, operate and maintain a transportation system that is safe, enables the easy movement of people and goods, enhances the economy, and improves the quality of life.
Statewide Organizational Structure

Virginia Department of Transportation - 10/01/08

Special Assistant to the Commissioner for Multimodal, Interstate and Federal Activities
Dr. Mary Toscher

Administrative Services
Linda Cheatham

Management Services
Larry Jones

Chief of Communications
Jeffrey Caldwell

Inspector General
Wanda Wells

Chief of Equal Business and Employee Opportunity
Grady Johnson

Commonwealth Transportation Commissioner
David Elkins, P.E.
Chief Deputy Commissioner
Gregory Whitley, Sr.

Internal Audit
Bradley Gelles

External and Construction Audit
Julie Brown

Investigations
Ronald Marker

Civil Rights
Freddie Jones

Chief Engineer
Malcolm Kerley, P.E.

Chief of System Operations
Comstance Spurnell

Chief of Policy and Environment
Richard Walton

Staunton District
Garrett Moore, P.E.

Lynchburg District
Richard Cagwood, P.E.

Hampton Roads District
Dennis Heron, P.E.

Richmond District
Thomas Hurthauser, P.E.

Bristol District
James Grooms

Culpeper District
James Utterback, P.E.

Northern Virginia District
Montana Saleti

Fredrick/Montgomery District
Quintin Elliott

Traffic Engineering
Raymond Khunwar, P.E.

Right of Way
Richard Bennett

Environmental Stewardship
Stephen Long

Policy
Keith Martin

Operations Planning
Robert Hsuaco, P.E.

Operations and Security Division
Gunnar Marlin

Human Resources
Kathleen Ramirez

Knowledge Management Office
Donna Moore

Financial Planning
John Lesmeen

Innovative Finance
Deborah Brown

Workforce Safety and Health
John Cooper, Jr.

Transportation Research
Michael Perfater (Acting)

Human Resources
Marcela Melendez

Development
Meredith Baker

Chief Financial Officer
Robert Shoker

Location and Design
Mohammed Mithova, P.E.

Materials
Andrew Robich, P.E.

Structure and Bridge
Kendall Wright, P.E.

Innovative Project Delivery
Tommy Pacheco, III, P.E.

Scheduling and Contract
Danele Coburn, Jr., P.E.

State Construction Engineer

*This position meets the statutory requirements set out in Section 332-4 of the Code of Virginia*
VDOT’s “Blueprint” for the Future

• Reduce VDOT full time staff from 8,600 to 7,500 by July 2010
  – Legislative directive under House Bill 1600

• Produces
  – A smaller agency
  – Providing services differently and proportioned differently
What to Expect from “Blueprint” Changes

• Organization / Staffing
  – Combine shared VDOT services
  – Reduce layers of supervision

• Services and Program
  – Separate District on-call turn key contracts
  – Consistent statewide evaluation metrics
  – Reinforce performance measures

• CTB Program
  – More reductions in revenue
  – Increase federal funds used for maintenance, decrease in construction funds available
  – Revised Six Year Improvement Program this year, Public Hearing - December 1 in Richmond
  – All programs subject to reduction or elimination
“Blueprint” Implementation affecting Consultants

• **Stage I (complete Fall 2008)**
  – Release of all Part Time / Wage employees

• **Stage II (complete Fall 2009)**
  – Reduce and re-organize construction
  – Reduce and re-organize engineering
  – Reduce and regionalize material laboratories
  – Reduce and regionalize right-of-way and utilities

• **Stage III (complete Spring 2010)**
  – Reduce and re-organize planning
  – Close residencies
  – Re-organize land development & permits
Procurement Processes

- Request for Proposals (RFP)
- Design-Build Program (DB)
- Public-Private Program (P3)
  – aka Public-Private Transportation Act or PPTA
**Procurement Process**

**Typical RFP**

1. **Advertise RFP for Services**
2. **Receive EOI’s**
3. **Review EOI’s**
4. **Select best firms (shortlist) based upon EOI’s**
5. **Contact shortlisted firms for interviews**
6. **Interview shortlisted firms**
7. **Prioritize based upon interview**
8. **Negotiate contract for services**
9. **Award contract**

**External Process**
- Re-Advertise / Cancel RFP
- 2 - 3 months

**Internal Process**
- 3 - 6 months
Procurement Process

Typical RFP

• What do we look for?
  – Understanding of the:
    • Services
    • Project Objective
    • Environment (Physical and non-Physical)
  – Technical Abilities
  – Prior Similar Experience
  – MBE/DBE Participation
  – Consistency in your Response

• Committee membership
  – 3-5 Voting Members
  – Administrators and Managers
  – Non-voting Project Partners (Technical Advisors)
Procurement Process
Design Build

1. Identify possible project & scope
2. Finding of Public Interest (Commissioner Approval)
3. Request for Qualifications
4. Evaluate & score proposals
5. Evaluate best value ranking of proposals
6. Award contract

External Process
- Re-Advertise / Cancel RFP

Internal Process
- 6 - 9 Months

2009-10 Engineering Outlook
Procurement Process Design Build

• What do we look for?
  – Qualifications
  – Project Concept and Management Plans
  – Design and Construction Approach
  – Quality Control/Quality Assurance
  – Project Control
  – MBE/DBE participation
  – Best Value

• Committee membership
  – Central Office & District Staff
  – Administrators and Managers
Solicited Procurement Process - P3

1. Advertise Solicitation for Proposals (SFP)
2. Receive Proposals
3. Quality Control Review
4. Independent Review Panel
5. Conduct Public Participation
6. Request for Detailed Proposals (RFDP)
7. Review RFDP’s
8. Select team and negotiate contract
9. Award contract
10. CTB Recommendations
11. External Process
12. Internal Process
13. Re-Advertise / Cancel P3

Duration: 32 - 48 months
Solicited Procurement Process - P3

• What do we look for?
  – Solicit for Proposals (SFP)
    • Approach
    • Development Process
    • Financing
  – Request for Detailed Proposals (RFDP)
    • Qualifications
    • Project Concept and Management Plans
    • Design and Construction Approach
    • Quality Control/Quality Assurance
    • Project Control
    • Financial Feasibility
    • MBE/DBE participation
    • Best Value

• Independent Review Panel (IRP)
  – Members appointed by the Secretary of Transportation
  – Municipal, Regional, and State Administrators
  – Citizens & Academia
On-Call Engineering/Design Contract Opportunities

- **Construction**
  - Estimating
  - Engineering & Inspection (CEI)
  - Maintenance Plans
  - Operations Area Technical Services

- **Environmental**
  - Environmental Documents
  - Noise Abatement
  - Wetlands and Water Quality

- **Innovative Project Delivery (IPD)**
  - Design Build/ P3 Services

- **Location & Design (L&D)**
  - Computer Generated Rendering
  - Design Services
  - District On-Call Services
  - Permit Construction Services
  - Quality Plan Review
  - Regional Drainage / River Mechanics
  - Regional Surveying
  - Subsurface Utility Designating
  - Traffic Engineering Design
  - Traffic Engineering for Operations
  - Utility Adjustment Plans

- **Materials**
  - Geotechnical Engineering Design
  - Pavement Evaluation & Design

- **Transportation Mobility & Planning (TMPD)**
  - Chapter 527 Services
  - Multi-Modal Planning
  - Transportation Planning
  - Travel Demand Modeling

- **Right-of-Way**
  - Appraisals

- **Structure and Bridge (S&B)**
  - Geotechnical Engineering for Bridges
  - Movable Bridge Inspection & Repair Plans
  - Regional New Design & Inspection
  - Regional Maintenance & Repair Plans
  - Regional Safety inspections & Traffic Control Devices
  - Regional Virtis Live Load Ratings
  - Tunnel Repair Plans

- **Traffic Engineering**
  - Traffic Engineering Services
  - Traffic Signal System Optimization

http://www.virginiadot.org/business/gpmps.asp
Decision Process for Using On-Call Contracts for Tasks

- **On Call Contract**
  - Engineering Services Fee < $750,000

- **???**

- **Project Contract**
  - Engineering Services Fee > $1,000,000

**Department Discretion**
Anticipated Consultant Contracts (6-12 Months)

- **Location & Design (L&D)**
  - Nine (9) District On-Call Services

- **Hampton Roads**
  - Support Services Contract for the Midtown Tunnel P3 Project

- **Lynchburg**
  - District Wide CEI Contract 2

- **Salem**
  - Route 221 CEI Services
Statewide Advertisement Outlook

Projects with an estimated value >$2 million
Statewide Advertisement Outlook

Projects with an estimated value >$2 million
### Statewide Advertisement Opportunities during 2010

<table>
<thead>
<tr>
<th>District</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
<th>Total</th>
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**Total**

|       | 32     | 16     | 5      | 14   | 67    |

Projects with an estimated value >$2 million
## Statewide Advertisement

### Opportunities during 2010

<table>
<thead>
<tr>
<th>District</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
<th>Total</th>
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<tr>
<td>Bristol</td>
<td>$7,162,466</td>
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<td>$1,091,289,295</td>
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adam.jack@vdot.virginia.gov

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