General Engineering Consultant

for

Program Management Services
Of
Mega Regional Transportation Projects
Program Management Services

GEC Industry Workshop Goal

• To provide a forum for the exchange of information between VDOT and the Consultant Industry for the development of a General Engineering Consultant RFP to manage the major, complex, and diversified congestion relief projects of the Northern Virginia Region.

• To provide information and instruction for the development of RFP proposal, address concerns regarding Conflict of Interest, define scope of services, and facility needs.
Program Management Services

General Program Needs

- Provide and Maintain Facilities and Communication/IT Systems
- Provide Core GEC Contract Administrative Duties
- Provide Project Partnering and Risk Management Analysis
- Provide Public and Community Outreach efforts
- Financial Plan Development and Monitoring
- Environmental Permit Acquisition, Monitoring Review
- Design and Contract Development and Review
- Submittal and Shop Drawing Coordination and Review
- Project Controls Administration Review
- Constructability and Bid Ability Review
- Traditional CE&I Inspection for Design-Bid-Build Projects
- QA Program Inspection for Design-Build Projects
- Safety Program Review and Inspection
- Regional/Project level Operations Monitoring and Implementation
DBE Development and Outreach Program Management

• The GEC will operate a “Disadvantaged Business Enterprises” Program.

• The DBE Program will comply fully with US Department of Transportation regulations, 49 CFR Part 26.

• DBE Program team will assist in workforce development.

• A Civil Rights Council (CRC) will be established to recommend advisory DBE goals.

• A Community Resource Board (CRB) will be established to assist in the identification of businesses within the specific work items.
NoVA Regional Transportation Program
Program Facilities

• Local Program Office, within Fairfax County, centrally located to the projects to co-locate, VDOT Program and Project Staff, FHWA Staff, and GEC Full Program Staff.
  – Multiple Conference facilities with the largest with a capacity of up to 50 people.
  – Parking to accommodate all full time occupants
  – Near Metro

• Communication System
  – Seamless Office, mobile, and data communication
  – Telephone and video conference capabilities

• IT Network
  – Seamless Electronic Network between Projects, VDOT, FHWA, and consultant personnel
  – Transfer of e-mail, CADD drawings, schedules, reports
  – Electronic Document Control/depository
Financial Management

July 26, 2007
Kaye-Sandra L. Braxton
Program Finance Manager
Financial Plan

- **Financial and Progress report for the program**
  - Integrates project planning, schedules and costs

- **Provide routine updates to the program**
  - Program status
  - Program Financial status

- **Will require that projects be reported by phase**
  - Project status

- **Determine cash flow requirements**
  - Funding Source
  - Allocations and Authorizations

- **Will require change and updating**
  - Project Status
  - Project Cost Estimates
  - Budget Updates
  - Cash-Flow
Financial Reporting

Routine financial reports generated

Project expenditures
  • Ongoing reconciliation
  • Monthly reporting

Project funding
  • Funding Sources
  • Allocations and Authorizations

Reports Schedule
  ▪ Monthly - Expenditure Reporting
  ▪ Quarterly - Financial Plan Updates
  ▪ Annually - Financial Plan Updates
Internal Audits

- Ensure compliance with program requirements and evaluate the integrity of business operating systems.
  - Business Process and transactions
  - Expenditure Integrity
  - Budgets
- Assess the effectiveness of management controls
  - Policy and Procedures
  - Risks
  - Mitigation
- Determine Compliance with policies and regulations
  - Policy and Procedures
  - Risks
  - Mitigation
Structure and Bridge

- Bridges and Culverts
- Retaining Walls
- Sign Structures
- Sound Walls
- High Mast Light Poles
- Foundations
Scope of Services

Provide
  Coordination
  Oversight
  Review

During all Phases of Project Development
  – Concept Plan Development Phase
  – Final Plans Development Phase
  – Construction Phase
Concept Plans

• **Bridge Design Criteria**
  – Design and Construction Specifications
  – Design Method, Loads, Material Specifications
  – Bridge Roadway Geometry, Bridge Railing
  – Standard Details
  – Etc.

• **Design Exceptions**

• **Approval of Concept Plans**
Final Plans

The GEC’s coordination and oversight effort may include the following:

- Review all details and sections necessary to build the structure.
- Review of all horizontal and vertical clearances
- Evaluation of feasibility of any staged construction (in conjunction with a constructibility review process)
- Proper selection of bridge structure elements, including joints, bearings, paint system, bolted and welded connection details, etc.
- Review of quantities and construction cost estimates
- Evaluation of bridge life cycle costs.
- Review foundation design process and proposed foundations.
- Review of Hydraulic studies and Reports for approval by the Department.
- Attend progress and partnering meetings.
Construction Support

- Technical oversight of the Developer’s QC/QA program.
- Monitor and review responses to RFC’s
- Secondary review of shop drawings and other submittals (e.g. temporary shoring, drilled shaft submittals, MSE wall submittals, pile order lengths or as deemed necessary by the Department)
- Process and review design revision packages.
- Participate in construction and progress meetings.
Right of Way & Utilities
Right of Way & Utilities
Oversight & Quality Control

- VDOT approved R/W & Utilities Turn Key Consultants (Mandatory)

- Serve as VDOT Regional Mega Projects R/W & Utilities Office under direction of VDOT R/W & Utilities Regional Projects Manager

- Responsible from Preliminary Engineering through post acquisition responsibilities (Final Non-Appealable Order, by Deed, or by an Agreement after Certificate executed and approved by VDOT and the appropriate court.)

- Responsible for creating and maintaining VDOT R/W & Utilities Project/Parcel files & RUMS compliance
Right of Way & Utilities
Oversight & Quality Control

- Ensure compliance with VDOT R/W & Utilities Manuals of Instructions, I & II

- Ensure compliance with Virginia Code of 1950, as amended; Sections 25.1 pertaining to Real Property Acquisition & 33.1 Condemnation Procedures

Right of Way & Utilities

- Responsible for providing weekly and monthly Status reports on R/W & Utilities to VDOT R/W & Utilities Project Manager

- Responsible for providing staffing support to VDOT R/W & Utilities manager

- Responsible for supporting and cooperating with ALL R/W & Utility Audits
July 26, 2007
Steven M. Titunik
Program Communications Director
Program Public Relations

- **Develops/implements Public Relations Strategy/Plans**
  - Supports program and project TMP’s
  - Provides proactive media outreach

- **Provides print and air media releases**
  - Lane closures
  - Major traffic switches
  - Transit alternatives
  - Public awareness campaigns/initiatives
Program Community Relations

• **Develops/implements Community Relations Strategy**
  • Project newsletters and fact sheets

  • Project and Commuter Information Stores
    – Springfield
    – Tyson’s Corner
    – Fredericksburg (possible)

• **Coordinates Community Outreach Efforts**
  • Facilitate community information meetings
  • Respond to comments and complaints
  • Develop and maintain project and program website
VDOT Oversight and General Engineering Consultant

for

Project Management Services

I-95 4th Lane Widening Projects

Presented By:

Harinderbir S. Warraich, Project Manager
Project Management Services
I-95 4th Lane Widening Project

- 12 lane mile road construction.
- 10 bridges widening including two bridges over Occoquan River.
- 16 Retaining Walls
- 8 Sound walls
- 2.5 Mile of Strom pipe installation

I-95-4th Lane Widening Project
Fairfax County Parkway at Newington 6.5 miles to Route 123 at Occoquan
## Project Management Services
### I-95 4th Lane Widening Project

### Project Management Schedule

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- **January 2008**
- **August 2011**
Project Management Services
I-95 4th Lane Widening Project

Project Management Milestone

Project Advertisement: September 11, 2007
Bid Opening: January 9, 2008
Contract Execution/NTP: March 2008
Construction Start: March 2008
Milestone 1: November 2009
Milestone 2: September 2010
Milestone 3: July 2011
Project Completion: August 2011
Project Management Services
I-95 4th Lane Widening Project

GEC Expectations

• Under VDOT direction, GEC will provide as needed project management

• GEC to supplement core inspection and management duties

• Review of Project & construction documents, public affairs/outreach Projects, safety, environmental and quality assurance.

• Provide oversight and scope control: planned vs. actual and QA/QC.

• Provide/handle potential changes within VDOT/FHWA guidelines

• Shop Drawing/Submittal Review

• Plan ‘Errors and Omissions’ Review

• Ongoing Risk Assessment/Risk Management/Scope Management

• Financial reporting to support SYP and Admin Services/Support
Project Management Services
I-95 4th Lane Widening Project

Organizational Chart – Project

NOTE: See Overall Organizational Chart for VDOT and GEC Management Support

PROJECT

VDOT KEY STAFF ON SITE

GEC KEY STAFF ON SITE

ADDITIONAL TECHNICAL SUPPORT

Construction
2 - Construction Manager
9 - Inspectors

Maintenance of Traffic
1 - MOT Manager shared between DBB & DB projects

Project Control
1 - Scheduler
1 - Estimator/Change Engr.
1 - Cost Engineer

Administration
1 - Office Engineer
1 - Administrative Assistant
1 - Receptionist shared between DBB & DB projects

Public Outreach
1 - Public Relation officer
1 - Assistant Public Relation Officer

Safety
1 - Safety Engineer

Right of Way & Utilities
(Support shared between all projects from program management staff)

Roadway/Bridge - Design Review
1 - Plan Reviewer
1 - Material Technician

Environmental Oversight - Permits & Issues
1 - Environmental Coordinator shared between DBB & DB projects
VDOT Oversight and General Engineering Consultant
for
Project Management Services

I-495 HOT Lanes Projects

Presented By:
Theresa L. DeFore, PE
Project Description

- Two new HOT lanes in each direction
- 14 miles from Springfield to north of Dulles Toll Road
- Phase VIII – HOV ramps at Springfield Interchange
- Increases capacity
- Expands regional HOV system
- Upgrade or replacement of 42 bridges and overpasses
- First major improvement to Beltway in more than 30 years
Improving the Entire Beltway

• Construct two NEW General Purpose lanes and to the outside in each direction
• Partial reconstruction/mill and overlay of existing two inside lanes, for use as HOT Lanes
Project Staffing Needs

• Organizational Chart - Project

I - 495 HOT LANE PROJECT (PPTA)

( NOTE: See Overall Organizational Chart for VDOT and GEC Management Support)

PROJECT

VDOT KEY STAFF ON SITE

GEC KEY STAFF ON SITE

ADDITIONAL TECHNICAL SUPPORT

Roadway
1- QA/QC Manager
1 - QA/QC Engineer

Bridge
1- QA/QC Manager
1 - QA/QC Engineer

Maintenance of Traffic
1- MOT Manager shared between 3 PPTA projects.

Project Control
Shared bet. 3 PPTA projects:
1- Scheduler
1- Estimator/Change Order Engineer

Environmental Oversight - Permits & Issues
1 - Environmental Engineer shared between 3 PPTA projects

Public Outreach
1- Safety Engineer shared between 3 PPTA projects

Safety
4

1 - Material Technician

Roadway - Design Review
1 - Plan Reviewer
1 - Plan Reviewer
(Mat. Tech. to be Shared)

Bridge - Design Review
Safety

Traffic & Tolling Support
1- Manager shared between 3 PPTA projects

Project Manager (1)

Assistant Project Manager (1)

Administrative Lead (1)

Right of Way & Utilities
1- Office Engineer
1- Administrative Asst.
1- Receptionist shared between 3 PPTA projects.

Administration

1- Office Engineer
1- Administrative Asst.
1- Receptionist shared between 3 PPTA projects.

Environmental Oversight - Permits & Issues
1 - Environmental Engineer shared between 3 PPTA projects

Maintenance of Traffic
1 - MOT Manager shared between 3 PPTA projects.

Project Control
Shared bet. 3 PPTA projects:
1- Scheduler
1- Estimator/Change Order Engineer

Public Outreach
1- Safety Engineer shared between 3 PPTA projects

Safety
1 - Material Technician

Roadway - Design Review
1 - Plan Reviewer
1 - Plan Reviewer
(Mat. Tech. to be Shared)

Bridge - Design Review

Traffic & Tolling Support
1- Manager shared between 3 PPTA projects

Project Manager (1)

Assistant Project Manager (1)

Administrative Lead (1)
# Project Management Services

## Beltway HOT Lanes

- Rough Project Management Schedule

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Path Forward

• VDOT and Fluor/Transurban currently negotiation Master Agreement and sub-agreements

• Financial Close anticipated late Fall, 2007

• Design and Initial Construction Activities early 2008

• Heavy Construction begins Spring/Summer 2008

• Open to traffic late Summer, 2012
VDOT Oversight and General Engineering Consultant for Project Management Services

I-95/395 Corridor Projects

Presented By:
Larry Cloyed, Project Manager
Project Management Services
I-95/395 Corridor Projects

I-95/I-395 HOT Lanes Phase I
Eads Street in Arlington to the north and
Garrisonville Rd to the south

I-95/I-395 HOT Lanes Phase II
Garrisonville Rd south to Route 17 By-pass at
Massaponax
Project Details

• 56-mile proposed project

• Expands existing 28 miles of HOV from 2 lanes to 3 lanes

• Extends existing HOV lanes 28 miles south to Massaponax

• Expands transit and carpool options in Northern Virginia and Fredericksburg regions

• 33 proposed entry and exit points for better access

• Part of transportation solution for BRAC
I-95/395 Lane Configuration

Northern Section:
Interstates 95/395 HOV/Bus/HOT Lanes
Eads Street (Arlington County) south to
Dumfries Road (Prince William County)

Southern Section:
Interstates 95/395 HOV/Bus/HOT Lanes
Dumfries Road (Prince William County) to
Massaponax (Spotsylvania County)
Project Management Services
I-95/395 Corridor Projects

GEC Expectations

Environmental Review
Design Review
Shop Drawing/Submittal Review
Plan ‘Errors and Omissions’ Review
Ongoing Risk Assessment/Risk Management/Scope Management
Constructability Review
Transit Services Review
Financial and Admin Services/Support
High Level Project Management Assistance
High Level QA/QC Inspection/Review
High Level Safety Inspection/Review
# Project Management Services
## I-95/395 Corridor Projects

## Rough Project Management Schedule
*(Dated from NTP)*

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Organizational Chart - Project

I-95/395 BRT/ HOT LANE PROJECT
PHASE 1 (PPTA)

( NOTE: See Overall Organizational Chart for VDOT and GEC Management Support)

VDOT KEY STAFF ON SITE

PROJECT

GEC KEY STAFF ON SITE

ADDITIONAL TECHNICAL SUPPORT

ROADWAY
1 - QA/QC Manager (shared with Phase II)
1 - QA/QC Engineer

BRIDGE
1 - QA/QC Manager (shared with Phase II)
1 - QA/QC Engineer

MAINTENANCE OF TRAFFIC
1 - MOT Manager shared between 3 PPTA projects.

PROJECT CONTROL
Shared bet. 3 PPTA projects:
1 - Scheduler
1 - Estimator/Change Engr.
1 - Cost Engineer

ADMINISTRATION
1 - Office Engineer
1 - Administrative Aasst.
1 - Receptionist shared between 3 PPTA projects.

PUBLIC OUTREACH
(Support shared between 5 projects from program management staff)

SAFETY
1 - Safety Engineer shared between 3 PPTA projects

ENVIRONMENTAL OVERSIGHT-
Permits & Issues
1 - Environmental Engineer shared between 3 PPTA projects

RIGHT OF WAY & UTILITIES
(Support shared between 3 projects from program management staff)

ROADWAY - DESIGN REVIEW
1 - Plan Reviewer
1 - Material Technician

BRIDGE - DESIGN REVIEW
1 - Plan Reviewer
(Mat. Tech. to be Shared)

TRAFFIC & TOLLING SUPPORT
1 - Manager shared between 3 PPTA projects
Project Management Services
I-95/395 Corridor Projects

Organizational Chart - Project

**I - 95/395 BRT/ HOT LANE PROJECT PHASE 2 (PPTA)**

(Note: See Overall Organizational Chart for VDOT and GEC Management Support)

**Project Manager**
(Shared with Phase I)

**Assistant Project Manager**

**Project Control Manager (1)**

**VDOT Key**

**Staff on Site**

**GEC Key**

**Staff on Site**

**Additional Technical Support**

**Roadway**
1- QA/QC Manager (shared with Phase I)
1- QA/QC Engineer

**Bridge**
1- QA/QC Manager (shared with Phase I)
1- QA/QC Engineer

**Maintenance of Traffic**
1- MOT Manager shared between 3 PPTA projects

**Project Control**
Shared bet. 3 PPTA projects:
1- Scheduler
1- Estimator/Change Engr
1- Cost Engr

**Administration**
1- Office Engineer
1- Administrative Asst.
1- Receptionist shared between 3 PPTA projects.

**Right of Way & Utilities**
(Support shared between 5 projects from program management staff)

**Public Outreach**
(Support shared between 5 projects from program management staff)

**Safety**
1- Safety Engineer shared between 3 PPTA projects

**Environmental Oversight - Permits & Issues**
1- Environmental Engineer shared between 3 PPTA projects

**Roadway - Design Review**
1- Plan Reviewer
1- Material Technician

**Bridge - Design Review**
1- Plan Reviewer
(Mat. Tech. to be Shared)

**Traffic & Tolling Support**
1- Manager shared between 3 PPTA projects
VDOT Oversight and General Engineering Consultant for Project Management Services

Dulles Railway Extension Project

Presented By:
Peter Vigliotti, PE
Project Manager
Project Management Services
Dulles Railway Extension Project

Dulles Corridor Metro Rail Phase 1
West Falls Church Station to Wiehle Ave. Station
**Project Details**

- 23-mile new Metrorail line branching off the East Falls Church Station
- 11 new stations: 5 in Phase 1 and 6 in Phase 2
- Utility Relocations on Rte 7 and 123
- Improvements to Rte 7 in Tyson’s Corner area
Enhancing Route 7

BEFORE

Service Road

AFTER

Thru/ Right-Hand Turning Lane

Sidewalk

Thru/ Right-Hand Turning Lane

Sidewalk
Project Management Services
Dulles Railway Extension Project

Summer 2007 – Partial TMP Plan Implementation

Late Summer/Early Fall 2007 – Utility relocation on Route 7, design review permit issuance

Summer/Fall 2008 – Construction begins starting with Route 7 enhancements

Summer 2008 – Phase 1 construction begins

2013 – Phase 1 opens for business

Phase 2
• Tie-ins at Rt. 606 and Rt. 772 – Dates TBD
Regional Transportation Management Plan

Management

- Facilitate Working Groups to develop TMP budgets and Strategies
- Assist TMP Project Manager in the Development, Administration, and implementation of the Region TMP
- Assist Project Level Development, Administration and Implementation TMP Plans
- Coordinate with incident response agencies for Work Zone related issues
Regional Transportation Management Plan Management

- Develop, Coordinate, and Operate Operations Center to coordinate regional Work zone operations

- Develop and implement Lane Closure Conflict monitor and approval process for Regional projects

- Provide analysis of measurements of effectiveness of TMP Strategies for reports to Localities, Elected Officials, and Transportation agencies
Other Projects and Regional Congestion Management Efforts

• **BRAC Support**
  – **Possibility of up to $500 M of Design-Build or Design-Bid-Build Transportation Projects**
    
    • Possible projects include: Fairfax County Parkway extension, Woodlawn Replacement Road, I-95 Access Improvements, Quantico Access improvements
    • Oversee coordination between military/FHWA with other MEGA project managers.

  – **Right-of-Way Acquisition**