## Network for Success Local Programs Workshop

#### Session Name: Design / Submission Requirements Breakout Session # 2D Track: Project Delivery

George T. Rogerson, Jr

Policies & Procedures Section Manager Central Office Location and Design Division October 24, 2012



#### **Speaker Introductions / Outline**

George Rogerson - Moderator Design / Submission Requirements Design Exceptions Design Waivers Plan Submission ADA Requirements

Al Bryan – Landscape Architect – VDOT Location & Design Division Bicycle and Pedestrian Accommodations / ADA

Heather Ham – Pennoni Engineering Relationship between VDOT the Localities and Consultants



#### Design / Submission Requirements

**General Design Requirements :** 

See Part 2 Chapter 12 (Project Development) of the LAP Manual.

#### **Design Exceptions:**

When design features as outlined in IIM-LD-227 do <u>not</u> meet AASHTO minimums, a Design Exception is required and approval <u>shall</u> be requested from the State Location and Design Engineer by completing form LD-440.

#### **Design Waivers:**

When design features as outlined in IIM-LD-227 do not meet VDOT minimums, but exceed AASHTO minimums, a Design Waiver is required and shall be requested from the District Location and Design Engineer by completing the form LD-448

Design waivers are <u>not</u> required on projects that <u>will be maintained by</u> <u>the locality.</u>



#### Design / Submission Requirements

**Plan Submission:** 

All Right of Way and Advertisements Plans are to be submitted electronically to the VDOT Project Coordinator to be place in the Falcon in the Central Office Plan File Library.



#### Design / Submission Requirements

#### ADA

#### It is <u>NOT</u> a Choice, it is the <u>LAW</u>!



#### **Speaker Introductions**

Al Bryan – Landscape Architect – VDOT Location & Design Division Bicycle and Pedestrian Accommodations / ADA

Heather Ham – Pennoni Engineering Relationship between VDOT the Localities and Consultants

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#### Design Requirements and Compliance with ADAAG Breakout Session # 2D Track: Project Delivery

Al Bryan

East Region Landscape Architect, Virginia Department of Transportation October 24<sup>th</sup>, 2012

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#### **Design Resources**

VDDT Virginia Department of Transportation



Please include Non-Std' Site Details

#### Engineering Design Standards - Sidewalks -



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- 5' minimum width Sidewalk with Buffer Strip
- 4' width Buffer Strip / 6' minimum width with Trees
- 4' width for clear accessible route
- 8' minimum width from BOC with on-street parking







#### Engineering Design Standards - Shared Use Paths -





- 10' minimum width, 2' shoulder, 3' clear zone,
- 5% grade, 2% cross slope



#### Engineering Design Standards - Shared Use Paths -

5 to 6%	For up to 800 feet
7%	For up to 400 feet
8%	For up to 300 feet
9%	For up to 200 feet
10%	For up to 100 feet
11+%	For up to 50 feet

Source: AASHTO – Guide For The Development Of Bicycle Facilities.\*

#### TABLE A-5-8

#### MAXIMUM GRADE LENGTHS

- Exceptions to Slope as noted in Road Design Manual, Appendix A
- Plus trail adjacent to roadway may parallel the roadway slope

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DOT Virginia Department of Transportation

#### Engineering Design Standards - Shared Use Paths -

Typical section with roadway sign and trail sign.



 VDOT is maintaining the 3' Clear Zone requirement despite AASHTO's reduction to 2' as indicated in the 2012 Bicycle Facilities Guide.







#### Engineering Design Standards - Shared Use Paths -

#### Suggested Alternative Construction Materials to Asphalt Paving:

#### Crushed Aggregate Surface

4" of base course No. 21A's, topped with 2" of finely crushed limestone aggregate using 3/8" minus crushed fines or "VDOT No. 10's"





### Don't be afraid to ask questions!

## Network for Success Local Programs Workshop

#### Effectively Managing a VDOT Project Team Breakout Session # 2D Track: Project Delivery

#### Heather M. Ham, PE, DBIA

Office Director Pennoni Associates Inc. October 24, 2012





- Strategies for effective management of a VDOT Design project
- What are the localities responsibilities
- What should the locality expect from their consultant



## Strategies for effectively managing a VDOT design project

- Communication Plan
- Scope/Schedule/Budget
- Federal Strategy



#### **Communication Plan**

- The most important component to a successful project
- Clearly identify a chain of communication for the locality and consultant to follow
- Establish an open and courteous platform for information to be distributed



### Scope/Schedule/Budget

- Scope should be reasonable, clear and concise
- Schedule should be realistic and identify all commitments
- Distribute all information to the team in the beginning
- Identify any pitfalls or problems as soon as possible to allow adequate time for resolution
- Budget must be reasonable



#### **Federal Strategy**

- Clearly identify milestones and commitments the project must meet
- Work closely with your VDOT counterparts to insure compliance with the Federal Strategy
- Make sure you consultant is aware of your commitments



#### **Localities Responsibilities**

- Coordination w/ VDOT
- Timely response to comments and questions
- Internal QA



### **Coordination with VDOT**

- Locality is the glue that binds the project
- Locality is the critical keeper of all the project information
- Frequent meetings based on project complexity and volume



### **Timely Information Distribution**

- Address issues as soon as practicable
- Relay information to all team members
- Suggestions
  - Project email group
  - Project meetings
  - Progress emails
  - Review meetings



#### **Internal QA process**

- Verify scope requirements
- Insure compliance with VDOT/FHWA design standards and specifications
- Clearly identify any design exceptions and obtain approval
- Coordinate with operation and maintence divisions



#### **Consultant Responsibilities**

• Design

• Plan submittals

• Timely response to localities needs



### **Design Requirements**

- Comply with VDOT/FHWA standards and specifications
- Comply with locality standards and specifications
- Identify design exceptions early
- Insure design is compatible with scope of work
- Sustainable design



#### **Plan Submittals**

- Verify the submittal is complete with respect to VDOT checklist for applicable level
- Do your own QA of the plans
- Know the commitments your client has for the project and work with them to meet those dates.



#### **Successful Project Delivery**

- Truly a "Team" effort
- Days of the 10 Year VDOT project are long gone
- Now an age of accountability
- Projects must be efficient and financially constrained
- Communication is the key



# Questions