

Appendix 3A-1 Definitions and Abbreviations

Abbreviations:

FEMA Federal Emergency Management Agency

**Appendix 3B-1 Documentation Data Sheet for
Hydrologic and Hydraulic Computations**

SUBMITTAL:		SUBMITTAL DATE:	
<u>FIELD INSPECTION</u>		<u>10/21/01</u>	
Project:	<i>Route 33 West Point Bridges over Pamunkey and Mattaponi Rivers</i>	Scheduled Advertisement: Revised:	<i>May 2002 May 2003</i>
Project Nos.	<i>0033-333-102, PE-101 0033-333-103, PE-101</i>	Drainage Manual Revision:	<i>6/86</i>
		Agreement Date:	<i>10/23/99</i>
		Earliest Date of Calculations:	<i>11/99</i>
Location:	<i>New Kent County King William County Town of West Point King and Queen County</i>		
From:	<i>New Kent County</i>	Scheduled / actual milestones Preliminary Field Review:	
		Field Inspection:	
		Public Hearing Plans:	
Other Info:		Public Hearing:	
Submitted By:	<i>Company/Agency address</i>	Right-of-Way	
Submitted To:	<i>VDOT C.O. Richmond, VA</i>	Pre-Final:	
		Final:	
Submitted To:		Construction Completion:	
Submitted To:			
Design Assignments			
	Project Manager	Hydraulics Task Leader	

Note: Sheet to be filled out and included in H&H Report. Blank sheet provided on next page.

**Appendix 3B-1 Documentation Data Sheet for
Hydrologic and Hydraulic Computations**

SUBMITTAL:		<u>FIELD INSPECTION</u>	SUBMITTAL DATE:	
Project:			Scheduled Advertisement:	
			Revised:	
Project Nos.			Drainage Manual Revision:	
			Agreement Date:	
			Earliest Date of Calculations:	
Location:				
From:			Scheduled / actual milestones	
			Preliminary Field Review:	
To:			Field Inspection:	
			Public Hearing Plans:	
Other Info:			Public Hearing:	
Submitted			Right-of-Way	
By:			Pre-Final:	
Submitted			Final:	
To:			Construction Completion:	
Submitted				
To:				
Design Assignments				
	Project Manager		Hydraulics Task Leader	

Note: This sheet to be filled out and included in H&H Report.

**Appendix 3B-2 Suggested Outline for VDOT
Hydrologic and Hydraulic Analysis Reports**

Cover for H&HA Report describing project, submittal, and schedule

Section I - Hydrology

- A. Criteria
- B. Methodology
- C. Peak Discharge Computations and Summary Table
- D. FEMA Flood Maps
- E. Previous Studies
- F. Data Gathering

Section II - Open Channel Hydraulics

- A. Criteria
- B. Methodology
- C. Typical Roadway Ditch Sections
- D. Roadway Ditch Computations and Summary Table
- E. Existing Stream Inventory
- F. Data Gathering

Section III - Culverts Hydraulics

- A. Criteria
- B. Methodology
- C. Culvert Computations and Summary Table
- D. Data Gathering

Section IV - Storm Sewer Hydraulics

- A. Criteria
- B. Methodology
- C. Spread Computations
- D. Storm Sewer and Hydraulic Grade Line Computations
- E. Data Gathering

Section V - Stormwater Management

- A. Criteria
- B. Methodology
- C. Stormwater Management Plan Summary
- D. Detention Pond Computations
- E. Data Gathering

Section VI – Erosion and Sediment Control

- A. Criteria
- B. Methodology
- C. Sediment Basin Plan Summary
- D. Phase I Narrative
- E. Phase II Narrative
- F. Data Gathering

Note: This suggested format and does not attempt to identify all the elements necessary for adequate analysis or documentation

Appendix 3B-3 Field Engineer's Hydraulic Report

IV. State rip rap and/or scour protection recommendations and justification for these recommendations. (Dist. Bridge Engr.).

V. Provide a basic assessment of the environmental, ecological, historical and economic considerations, which may exert an influence on this site. (District Drainage Engineer)

VI. Make note of any flood plain zoning and/or flood plain studies in existence or eminently proposed. (Dist. Drainage Engr.)

VII. Other Special Considerations and Remarks (District Bridge and Drainage Engineers)
