

PROJECT MANAGER R. Edward Coke, P.E., Salem, S&B (540) 387-5221  
SURVEYED BY and DATE COMPLETED Gary Brant, L.S., Salem, L&D (540) 387-5227, August 23, 2011  
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SALEM DISTRICT DESIGN UNIT

DESIGN FEATURES RELATING TO CONSTRUCTION  
OR TO REGULATION AND CONTROL OF TRAFFIC  
MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	11	0011-011-110, M-501	2

# GENERAL NOTES

## GRADING

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than 1 foot or the limits of such excavation, such change shall be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.
- G-6 The borrow material for this project shall be a minimum CBR = 5 or as approved by the Materials Engineer.

## DRAINAGE

- D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
- D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.
- D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.
- D-6 Pipes shall conform to any of the allowable types shown on sheet number 3C, within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standards PC-1.
- D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.
- D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.

## PAVEMENT

- P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

## INCIDENTALS

- I-7 Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.
- I-8A Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Engineer. Sta. 19+50 to Sta. 24+00
- I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets 1J(1) thru 1J(19) and as directed by the Engineer.
- I-19 The following sources, under contract with VDOT, have provided information on this project:
- Hydraulic Design

Roadway Design

Bridge Design

Traffic Design
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- TranSystems

Alvi Associates, Inc.

TranSystems

Anderson & Associates, Inc.
- If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

- I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, MicroStation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

- I-21 All electronic plan assemblies will include the construction plans in two formats: .pdf files and MicroStation format (.dgn) files. Only the .pdf files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The MicroStation files will only match the scanned files if all levels are turned on. A MicroStation Software license is required to be able to read these files.

## EROSION AND SEDIMENT CONTROL (ESC)

- E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

- E-3 The following symbols are used to depict Erosion Control items in the plan assembly:

- >>>>>>

(EC-2)
- Denotes Protective Covering, St'd. EC-2
- >>>>>>

(EC-3A)
- Denotes Soil Stabilization Mat, St'd. EC-3 Type A, B or C
- (EC-3B)

(EC-3C)
- (TFB)
- Denotes Temporary Filter Barrier, St'd EC-5
- x—x—x—x—x—x—x—x—x—

(TSF)
- Denotes Temporary Silt Fence, St'd EC-5
- ⇄⇄⇄⇄⇄⇄⇄⇄⇄⇄

(TDC)
- Denotes Temporary Diversion Channel, St'd EC-12
- (DD)
- Denotes Temporary Diversion Dike, St'd EC-9
- (TC-I)
- Denotes Turbidity Curtain, Type - Impervious
- (TC-P)
- Denotes Turbidity Curtain, Type - Pervious
- △

(RCD-1)
- Denotes Rock Check Dam, Type I; St'd EC-4
- ▲

(RCD-2)
- Denotes Rock Check Dam, Type II; St'd EC-4
- (IP-A)
- Denotes Inlet Protection, Type A; St'd EC-6
- (IP-B)
- Denotes Inlet Protection, Type B; St'd EC-6