

SOURCE: U.S.G.S. TOPOGRAPHIC QUADRANGLES:  
MONETA SOUTHWEST, VA AND  
SMITH MOUNTAIN DAM, VA

### INDEX MAP

SCALE: 1" = 2000'

### GENERAL NOTES

1. AERIAL SURVEY TO PROVIDE PLANIMETRIC AND TOPOGRAPHIC MAPPING WAS PERFORMED BY HURT AND PROFFITT, LYNCHBURG, VIRGINIA, IN MAY, 2003. AERIAL SURVEY WAS SUPPLEMENTED BY FIELD INVESTIGATIONS PERFORMED BY CORNERSTONE SURVEYING IN MARCH AND APRIL, 2009. AERIAL PHOTOGRAPHY TO PROVIDE PLANIMETRIC MAPPING WAS OBTAINED FROM THE VIRGINIA GEOGRAPHIC INFORMATION NETWORK (VGIN). THE MAPPING WAS PREPARED IN 2000.
2. VERTICAL CONTROL IS BASED UPON MEAN SEA LEVEL, NORTH AMERICAN VERTICAL DATUM OF 1988.
3. HORIZONTAL CONTROL IS BASED UPON THE VIRGINIA STATE PLANE SOUTH ZONE, NORTH AMERICAN DATUM 1983.
4. PROPERTY INFORMATION, INCLUDING BOUNDARY LINES AND TAX MAP NUMBERS, SHOWN ON THESE PLANS IS APPROXIMATE AND IS BASED ON DIGITAL TAX MAPS PROVIDED BY FRANKLIN COUNTY.
5. AIR RELEASE VALVES (ARV) SHALL BE LOCATED AT HIGH POINTS IN THE WATER LINE AND SHALL BE INSTALLED AS TO NOT INTERFERE WITH FUTURE VIRGINIA DEPARTMENT OF TRANSPORTATION MAINTENANCE OPERATIONS. ARV LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
6. BLOW-OFF VALVES (BOV) SHALL BE LOCATED AT LOW POINTS IN THE WATER LINE AND SHALL BE INSTALLED AS TO NOT INTERFERE WITH FUTURE VIRGINIA DEPARTMENT OF TRANSPORTATION MAINTENANCE OPERATIONS. BOV LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
7. MINIMUM PIPE COVER FOR WATER LINES SHALL BE 3'-0" UNLESS NOTED OTHERWISE.
8. THE EXISTENCE AND LOCATION OF EXISTING UTILITIES ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. ANY DAMAGE DONE TO EXISTING UTILITIES AND FACILITIES SHALL BE REPAIRED WITH THE UTILITIES AND FACILITIES RESTORED TO AT LEAST THEIR ORIGINAL CONDITION.
9. WATER LINES AND APPURTENANCES ON V.D.O.T. RIGHT-OF-WAY SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE V.D.O.T. "ROAD AND BRIDGE SPECIFICATIONS", "ROAD AND BRIDGE STANDARDS," SPECIAL PROVISIONS-MP-63 AND SUBSEQUENT SPECIAL PROVISIONS-MP-71.
10. WATER LINE MATERIAL SHALL BE CLASS 350 DIP FOR 4-INCH OR LARGER AND "K" TYPE COPPER FOR 3-INCH OR SMALLER.
11. ALL FINAL PAVEMENT PATCHES AND OVERLAYS WITHIN VDOT RIGHT-OF-WAY SHALL BE INSTALLED WITH A PAVING MACHINE AND SHALL MEET VDOT SPECIFICATIONS FOR PAVEMENT REPLACEMENT.
12. THE CONTRACTOR SHALL CONTACT "MISS UTILITY OF VIRGINIA" 72 HOURS BEFORE ANY EXCAVATION WORK IS BEGUN. "MISS UTILITY OF VIRGINIA" MAY BE REACHED AT 1-800-552-3120.
13. WATER LINES AND APPURTENANCES SHALL BE INSTALLED AT A MINIMUM OF 3 FEET FROM THE EDGE OF PAVEMENT ALONG SECONDARY ROADWAYS AND 5 FEET ALONG PRIMARY ROADWAYS IN FILL SECTIONS AND AT A MINIMUM OF 18 INCHES BACK OF DITCH LINES IN CUT SECTIONS.
14. WHERE WATER LINES CROSS ROADWAY DRAINAGE CULVERTS, THE WATER LINES MUST BE INSTALLED UNDER ALL VDOT DRAINAGE STRUCTURES WITH A MINIMUM CLEARANCE OF 18 INCHES, OR PROVISIONS SHALL BE MADE TO INSTALL THE WATER LINES AT LEAST 10 FEET FROM THE END OF THE DRAINAGE STRUCTURE IF CONDITIONS WARRANT NOT INSTALLING UNDER THE STRUCTURE.
15. WATER METER LOCATIONS AND SERVICE LINE ROUTES SHALL BE DETERMINED IN THE FIELD BY A MUTUAL AGREEMENT BETWEEN THE HOMEOWNER/WATER SYSTEM OWNER, CONTRACTOR, AND ENGINEER.
16. ALL UNPAVED AND UNGRAVELED AREAS DISTURBED BY EXCAVATION SHALL BE SEEDED.
17. WORK SHALL NOT BE PERFORMED ON VDOT RIGHT-OF-WAY PRIOR TO THE ISSUANCE OF A LAND USE PERMIT BY VDOT.
18. CHAMBERS OR PITS CONTAINING VALVES, BLOWOFFS, METERS OR OTHER SUCH APPURTENANCES TO A DISTRIBUTION SYSTEM SHALL NOT BE CONNECTED TO ANY DRAIN OR SANITARY SEWER. CHAMBERS OR PITS SHALL BE DRAINED TO SURFACE OR TO ABSORPTION PITS ABOVE THE GROUNDWATER TABLE. ADDITIONALLY, BLOWOFFS OR ARVS CANNOT BE CONNECTED DIRECTLY TO ANY SEWER.
19. RIGHT-OF-WAY REQUIREMENTS, PRIVATE PROPERTY: A 20' WIDE PERMANENT EASEMENT 10' LEFT AND RIGHT OF WATER LINE AND A 40' WIDE TEMPORARY EASEMENT 20' LEFT AND RIGHT OF WATER LINE RIGHT-OF-WAY REQUIREMENTS, PUBLIC PROPERTY: CONSTRUCTION LIMITS ARE DEFINED BY THE PUBLIC RIGHT-OF-WAY.
20. OWNERSHIP OF DOCUMENTS - THIS DOCUMENT, INCLUDING THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THOMPSON + LITTON AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THOMPSON + LITTON.

### GENERAL LEGEND

EXISTING	NEW	DESCRIPTION
W		WATER LINE
		BLOW-OFF VALVE
		GATE VALVE
		AIR RELEASE VALVE
		FIRE HYDRANT
		CASING PIPE
		BUILDING OR STRUCTURE
		PAVED ROAD
		DIRT/GRAVEL ROAD
		RIGHT-OF-WAY
		CULVERT
		UTILITY POLE
		STREAM/SHORELINE
		COUNTY LINE

### SHEET INDEX

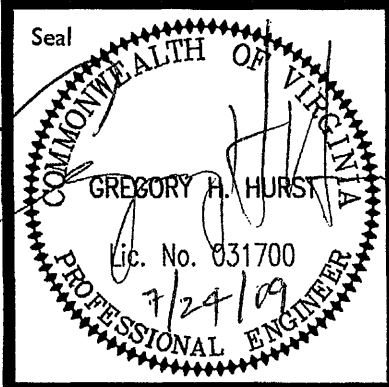
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SHEET INDEX, INDEX MAP, GENERAL NOTES, EROSION AND SEDIMENT CONTROL NOTES & LEGENDS
3.	PLAN AND PROFILE - LINE 100W
4.	PLAN AND PROFILE - LINE 100W
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7.	PLAN AND PROFILE - LINE 100W
8.	PLAN AND PROFILE - LINE 100W
9.	PLAN AND PROFILE - LINES 100W & 200W
10.	PLAN AND PROFILE - LINE 100W
11.	PLAN AND PROFILE - LINE 100W
12.	PLAN AND PROFILE - LINE 100W
13.	PLAN AND PROFILE - LINE 100W
14.	PLAN AND PROFILE - LINE 100W
15.	PLAN AND PROFILE - LINES 100W & 300W
16.	PLAN AND PROFILE - LINES 200W & 201W
17.	PLAN AND PROFILE - LINE 201W
18.	PLAN AND PROFILE - LINE 300W
19.	STANDARD WATER LINE DETAILS
20.	STANDARD WATER LINE DETAILS
21.	TYPICAL DETAILS - RESTRAINING DEVICES & PRV STATIONS

### EROSION AND SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
	SILT FENCE
	CULVERT INLET PROTECTION
	PERMANENT SEEDING
	TEMPORARY SEEDING
	TOPSOILING
	MULCHING

### EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS, THE EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT AND THE LATEST EDITION OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK," BY THE DEPARTMENT OF CONSERVATION AND RECREATION, AS APPLICABLE.
2. THE CONTRACTOR SHALL KEEP AT THE PROJECT SITE COPIES OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" AND THE EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL FACILITIES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN-APPROVING AUTHORITY.
4. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED EROSION AND SEDIMENT CONTROL FACILITIES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES UNTIL FINAL STABILIZATION IS ACHIEVED.
5. MATERIAL STOCKPILES SHALL BE CONTAINED WITHIN SEDIMENT BARRIERS. STOCKPILES THAT ARE TO REMAIN UNWORKED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING WITHIN 7 DAYS AFTER THE COMPLETION OF STOCKPILING.
6. TEMPORARY STABILIZATION SHALL BE INSTALLED WITHIN 7 DAYS ON DENUDED AREAS THAT ARE TO REMAIN DORMANT FOR GREATER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. PERMANENT STABILIZATION SHALL BE INSTALLED WITHIN 7 DAYS OF FINAL STABILIZATION.
7. ALL AREAS WHICH REQUIRE SEEDING SHALL BE "TOPSOILED" AND STABILIZED WITH MULCH IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND SPECIFICATIONS FOR THIS PROJECT.
8. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL FACILITIES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MADE IMMEDIATELY. RECORDS OF ALL INSPECTIONS AND REPAIRS MADE TO EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR.
9. NO MORE THAN 150 LINEAR FEET OF TRENCH MAY BE OPEN AT ONE TIME.
10. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
11. PAVED OR PUBLIC ROAD SURFACES SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY.
12. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH A DEWATERING STRUCTURE AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
13. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
14. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IS COMPLETED IN THE WATERCOURSE.



STATE ROUTE 616 WATER LINE EXTENSION  
FOR THE  
FRANKLIN COUNTY BOARD OF SUPERVISORS  
AND  
WESTERN VIRGINIA WATER AUTHORITY  
SHEET INDEX, INDEX MAP, GENERAL NOTES,  
EROSION AND SEDIMENT CONTROL NOTES & LEGENDS

No.	Date	Purpose of Document Issue
1	07/02/09	REVIEW DOCUMENTS ISSUED
2	07/17/09	OWNER COMMENTS 07/13/09
3	07/22/09	FINAL DOCUMENTS ISSUED

Designed	
Drawn	
Checked	
Date	JULY 2009
File No.	WATER LINE PLANS

Project No.  
**9343-02**



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Sheet No.

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