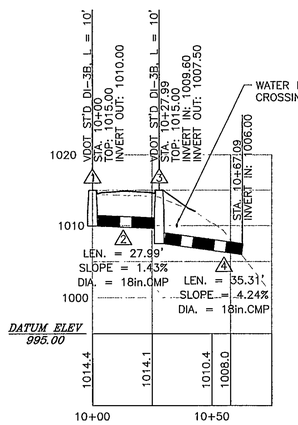
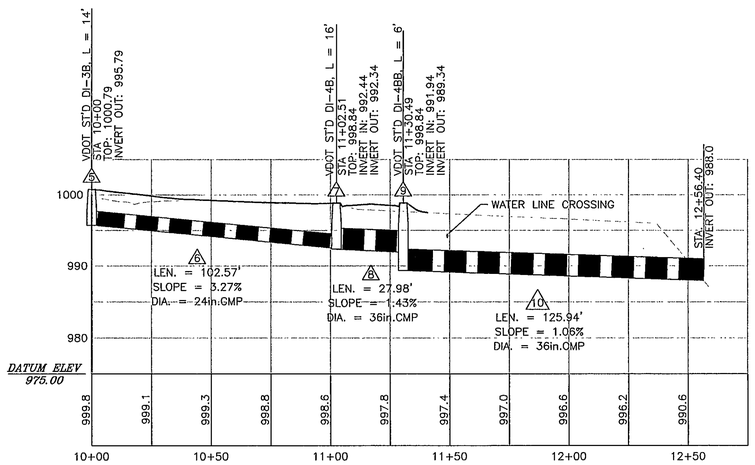
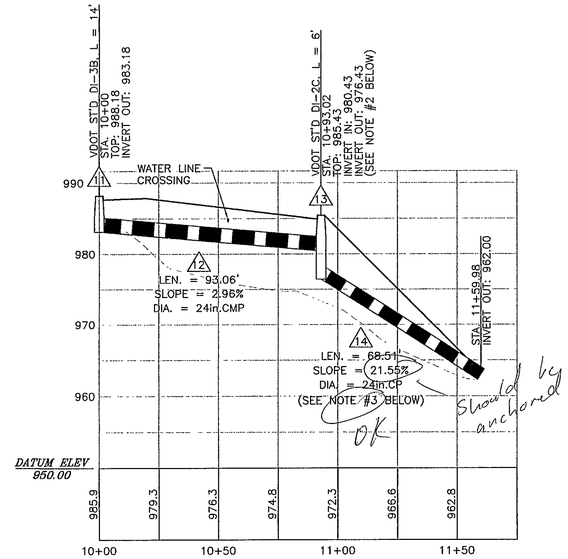






STORM SEWER PROFILES

SCALE: HOR: 1"=30', VERT: 1"=10'

PROPOSED STRUCTURE SCHEDULE

STRUCTURE	DESCRIPTION
1	VDOT ST'D DI-3B, THROAT LENGTH=10', THROAT INV. ELEV.= 1014.5', TOP ELEV.=1015.00', INV. OUT=1010.00'
2	27.99 L.F.-18" CMP INV. IN=1010.00', INV. OUT=1009.60', S=1.43%
3	VDOT ST'D DI-3B, THROAT LENGTH=10', THROAT INV. ELEV.= 1014.5', TOP ELEV.=1015.00', INV. OUT=1007.50'
4	35.31 L.F.-18" CMP INV. IN=1007.5', INV. OUT=1006.00', S=4.24%, ES-2 END (LENGTH DOES NOT INCLUDE END SECTION)
5	VDOT ST'D DI-3B, THROAT LENGTH=14', THROAT INV. ELEV.= 1000.29', TOP ELEV.=1000.79', INV. OUT=995.79'
6	102.57 L.F.-24" CMP INV. IN=995.79', INV. OUT=992.44', S=3.27%
7	VDOT ST'D DI-4B, THROAT LENGTH=16', THROAT INV. ELEV.= 998.34', TOP ELEV.=998.84', INV. OUT=992.34'
8	27.98 L.F.-36" CMP INV. IN=992.34', INV. OUT=991.94', S=1.43%
9	VDOT ST'D DI-4BB, THROAT LENGTH=6', THROAT INV. ELEV.= 998.34', TOP ELEV.=998.84', INV. IN=991.94', INV. OUT=989.34'
10	125.94 L.F.-36" CMP INV. IN=989.34', INV. OUT=988.00', S=1.06%, ES-2 END (LENGTH DOES NOT INCLUDE END SECTION)
11	VDOT ST'D DI-3B, THROAT LENGTH=14', THROAT INV. ELEV.= 987.68', TOP ELEV.=988.18', INV. OUT=983.18'
12	93.06 L.F.-24" CMP INV. IN=983.18', INV. OUT=980.43', S=2.96%
13	VDOT ST'D DI-2C, THROAT LENGTH=6', THROAT INV. ELEV.= 984.93', TOP ELEV.=985.43', INV. IN=980.43', INV. OUT=976.43', (SEE NOTE #2, SHEET #4)
14	68.51 L.F.-24" CONCRETE PIPE INV. IN=976.43', INV. OUT=962.00', S=21.55% (SEE NOTE #3)(DETAIL DWG., SHEET #5) ES-2 END (LENGTH DOES NOT INCLUDE END SECTION)

DETENTION POND

RISER	54" CMP STANDPIPE, 16.0" HOLE AT INV. IN 934.50', TOP: 941.00'
15	105.00 L.F.-36" CMP INV. IN=934.00', INV. OUT=932.50', S=1.43%

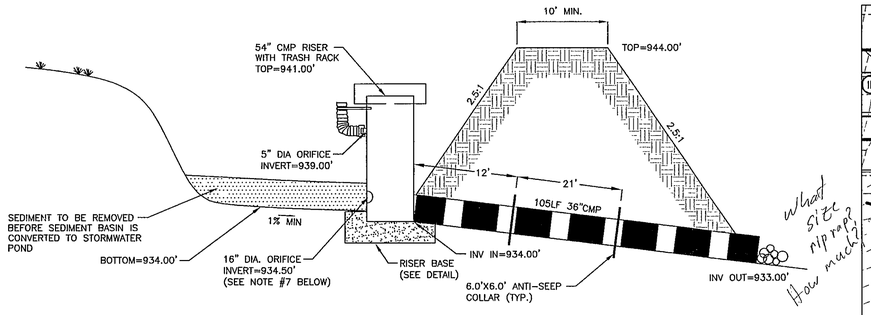
SEDIMENT BASIN

DRAINAGE AREA = 10.9 AC.
APPROX. 115' X 70'

TRASH RACK AND ANTI-VORTEX:
78" DIA.
25" HEIGHT

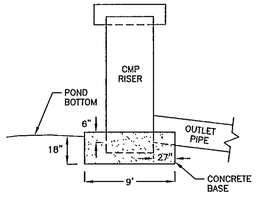
EMBANKMENT SHALL BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, STUMPS, SOD, OVERSIZED STONES, ROCKS, OR OTHER PERISHABLE OR OBJECTIONABLE MATERIAL. THE MATERIAL SELECTED MUST HAVE ENOUGH STRENGTH FOR THE DAM TO REMAIN STABLE AND BE TIGHT ENOUGH, WHEN PROPERLY COMPACTED, TO PREVENT EXCESSIVE PERCOLATION OF WATER THROUGH THE DAM.

ALL FILL MATERIAL TO BE COMPACTED TO A MINIMUM 95% OF STANDARD PROCTOR AT ±3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.



SEDIMENT BASIN/STORMWATER POND DETAILS

N.T.S.



RISER BASE DETAIL

N.T.S.

GENERAL NOTES:

1. CONTRACTOR SHALL CALL MISS UTILITY OF CENTRAL VIRGINIA @ 1-800-552-7001 PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLANS.

2. STRUCTURE #13 SHALL BE CONSTRUCTED IN ACCORDANCE WITH DDM1. (VIRGINIA DEPARTMENT OF TRANSPORTATION DRAINAGE MANUAL, 2002, CHAPTER 15, "DRAINAGE DESIGN MEMORANDA")

3. PIPE #14 TO BE CONSTRUCTED WITH ANCHOR BLOCKS IN ACCORDANCE WITH DDM1. (VIRGINIA DEPARTMENT OF TRANSPORTATION DRAINAGE MANUAL, 2002, CHAPTER 15, "DRAINAGE DESIGN MEMORANDA")

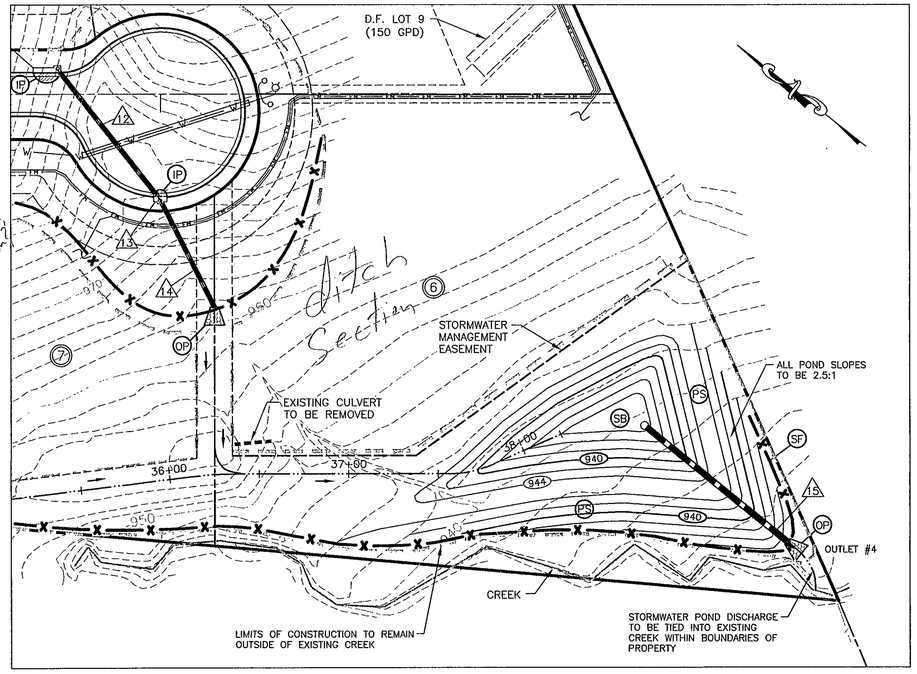
4. FUTURE MAINTENANCE AND PRESERVATION OF STORMWATER MANAGEMENT POND TO BE COMPLETED UNDER THE STORMWATER POND "MANAGEMENT" AGREEMENT PROVIDED BY OWNER/DEVELOPER.

5. STORMWATER POND TO BE USED AS SEDIMENT BASIN UNTIL CONSTRUCTION SLOPES HAVE BEEN STABILIZED.

6. ALL REMAINING SEDIMENT FOUND IN THE BASE OF THE SEDIMENT BASIN SHALL BE REMOVED PRIOR TO CONVERSION TO STORMWATER POND.

7. AT CONVERSION, ALL EXISTING ORIFICES SHALL BE PLUGGED AND A 16" ORIFICE (ELEV. = 934.50') SHALL BE DRILLED.

8. STORMWATER POND IS SIZED TO PROVIDE STORMWATER MANAGEMENT FOR ALL LOTS SHOWN. NO ADDITIONAL STORMWATER RETENTION WILL BE REQUIRED ON EACH INDIVIDUAL LOT.



STORMWATER MANAGEMENT POND

SCALE: 1"=40'

DATE	APPROVAL

REVISIONS

DESCRIPTION

Stone Engineering
250 S. Main Street
Rocky Mount, Virginia 24151
(540) 483-0078

DESIGN: KSH
DRAFT: KSH
CHECK: RDS

STORM SEWER AND STOMWATER POND LAYOUT SHEET FOR

MOUNTAIN VIEW VILLAGE

LOCATED ON VIRGINIA ROUTE 122
GILES CREEK MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA

DATE: 2-15-06
SCALE: AS SHOWN
SHEET 4 OF 6
PROJECT NO. 05016

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