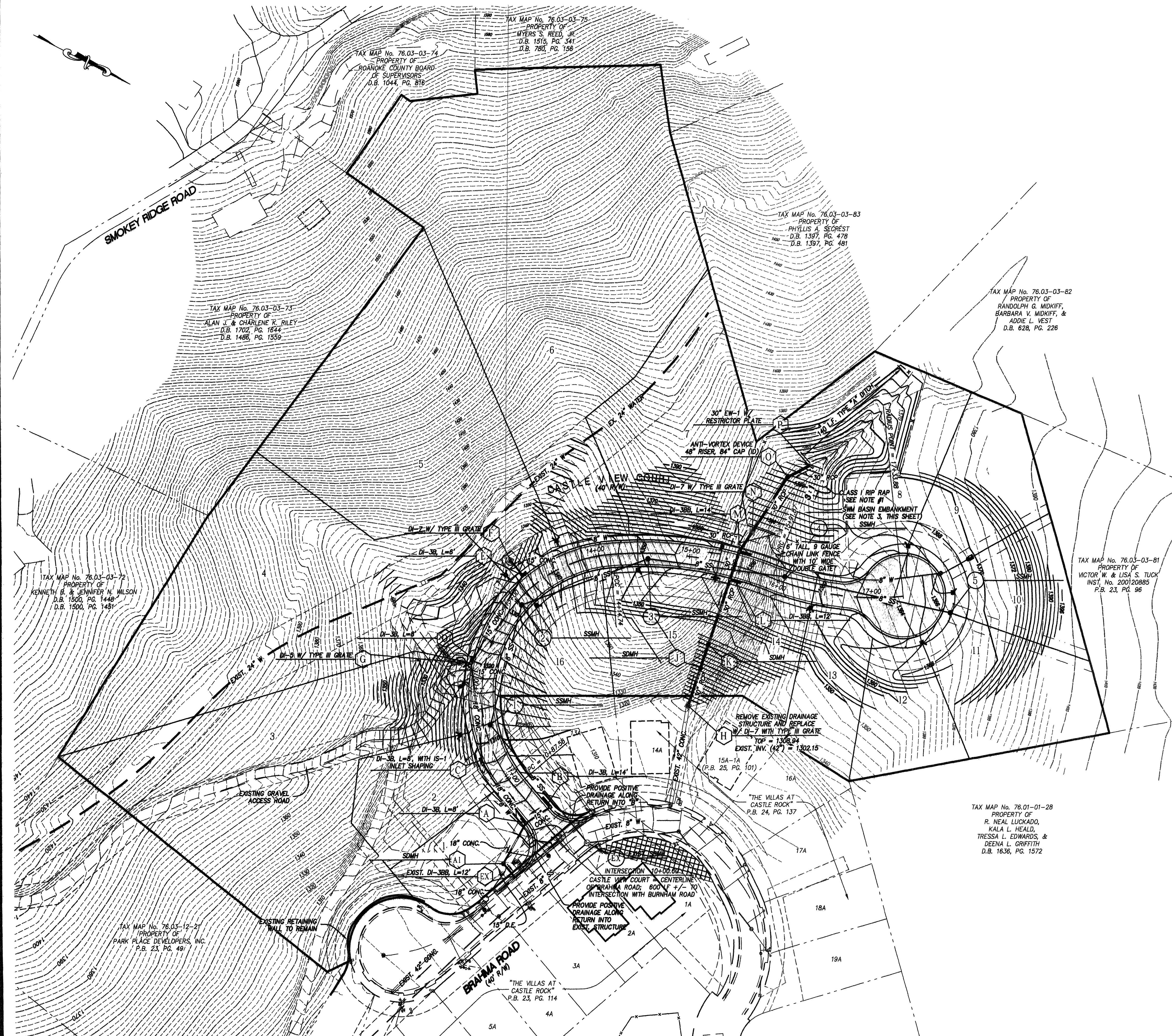
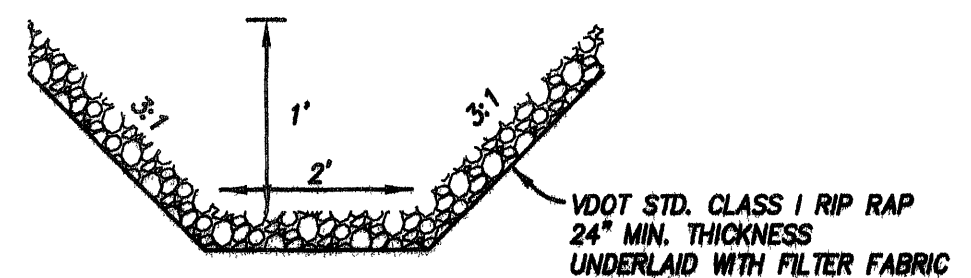




MINIMUM FLOOR ELEVATIONS FOR GRAVITY SANITARY SEWER SERVICE		
LOT No.	CLEANOUT INVERT	MINIMUM FLOOR ELEVATION
1	1302.82	1306.8
2	1306.08	1312.2
3	1303.78	1309.9
4	1307.83	1309.7
5	1332.06	1337.7
6	1332.80	1336.8
7	1348.63	1353.7
8	1355.06	1359.1
9	1357.02	1361.0
10	1357.00	1361.0
11	1355.24	1358.0
12	1349.80	1354.0
13	1344.07	1348.2
14	1336.70	1342.7
15	1309.88	1313.8

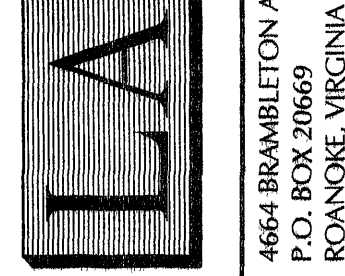
- NOTES:
- CLASS I RIP RAP IS TO BE PROVIDED ON THE FILL EMBANKMENT OF THE STORM WATER MANAGEMENT FACILITY UP TO AN ELEVATION OF 1360.50. CLASS I RIP RAP IS TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE VDOT AND ROANOKE COUNTY STANDARDS AND SPECIFICATIONS. CLASS I RIP RAP SHALL BE INSTALLED TO 24" MINIMUM THICKNESS AND UNDERLAID WITH FILTER FABRIC.
 - VDOT WILL INSPECT THE BEDDING, INSTALLATION, AND BACKFILL OPERATIONS FOR THE OUTFALL STORM DRAIN SYSTEM FROM THE STORMWATER MANAGEMENT DETENTION FACILITY (STRUCTURES "P" TO "H") TO INSURE COMPLIANCE WITH THE 2001 VDOT ROAD AND BRIDGE STANDARDS AND THE CURRENT VDOT SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT THE VDOT RESIDENCY PRIOR TO THE START OF CONSTRUCTION.
 - THE SWM BASIN EMBANKMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2001 VDOT ROAD AND BRIDGE STANDARDS AND THE CURRENT VDOT SPECIFICATIONS. A LICENSED GEOTECHNICAL ENGINEER, OR ACCEPTABLE CONSULTING FIRM, SHALL INSPECT THE EMBANKMENT CONSTRUCTION TO INSURE IT IS PROPERLY CONSTRUCTED. A LETTER SEALED BY A PROFESSIONAL ENGINEER SHALL BE PROVIDED TO THE VDOT RESIDENCY CERTIFYING THE CONSTRUCTION.



TYPE "A" DITCH
NO SCALE

LEGEND	
ITEM	EXISTING / PROPOSED
Pavement	--- EXISTING --- / --- PROPOSED ---
Curb and Gutter	--- EXISTING --- / --- PROPOSED ---
Concrete	--- EXISTING --- / --- PROPOSED ---
Sanitary Sewer Manhole	--- EXISTING --- / --- PROPOSED ---
Sanitary Sewer Line	--- EXISTING --- / --- PROPOSED ---
Waterline	--- EXISTING --- / --- PROPOSED ---
Storm Drain	--- EXISTING --- / --- PROPOSED ---
Underground Electric Line	--- EXISTING --- / --- PROPOSED ---
Underground Cable Line	--- EXISTING --- / --- PROPOSED ---
Underground Gas Line	--- EXISTING --- / --- PROPOSED ---
Contours	--- EXISTING --- / --- PROPOSED ---

LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA



THOMAS C. DALE
No. 033002
10/6/05
PROFESSIONAL ENGINEER

GRADING
PLAN

"THE HILLS AT CASTLE ROCK"
PREPARED FOR
PARK PLACE DEVELOPERS, INC.
WINDSOR HILLS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

REVISIONS	
NO.	DATE
1	5/31/05
2	7/10/05
3	10/6/05
4	
5	

DATE: JUNE 14, 2004

SCALE: 1" = 50'

COMMISSION NO: 2002-312

CADD FILE: P:\2002\02312-ENR\312COMP.DWG

SHEET 6 OF 11