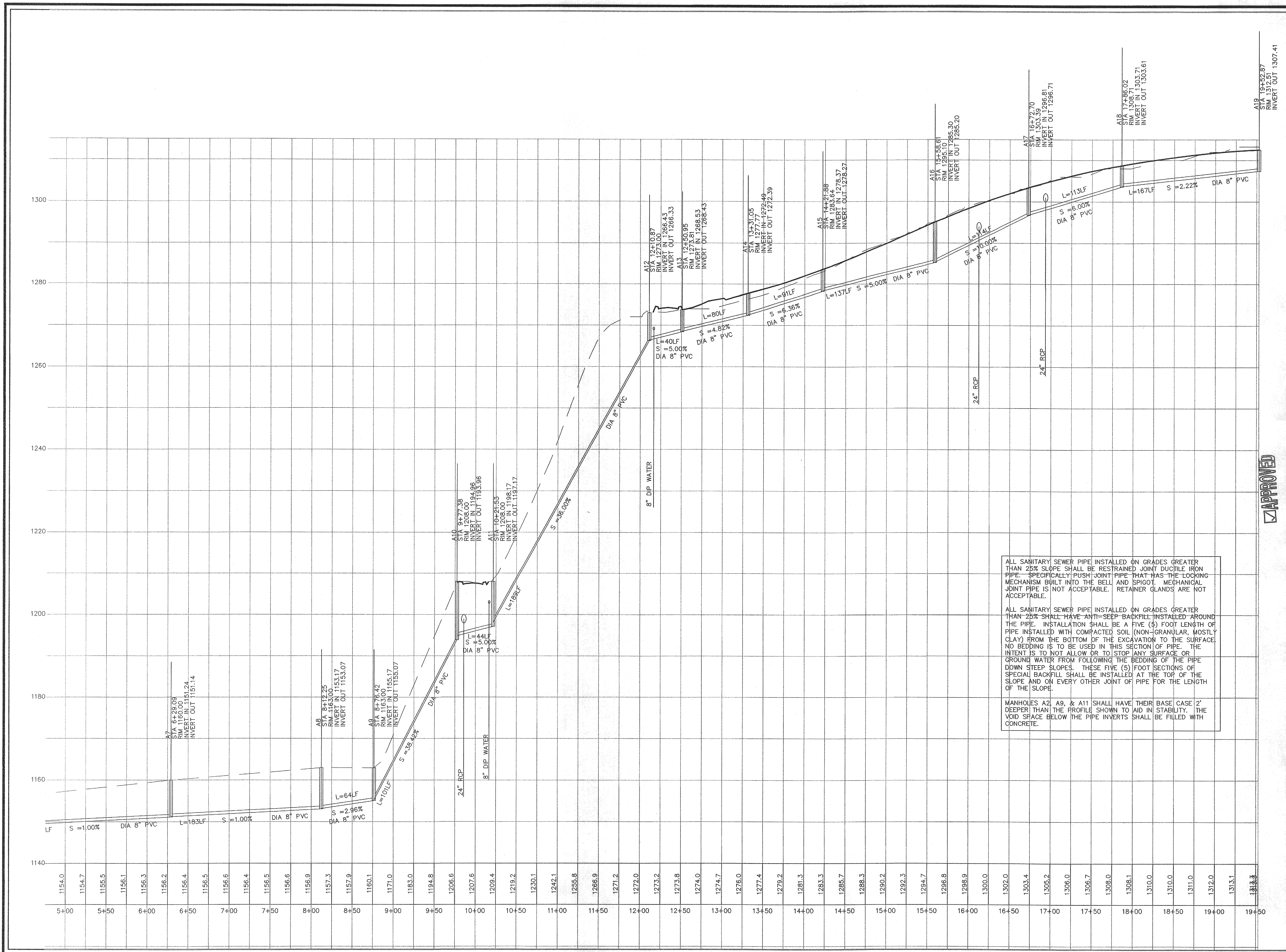


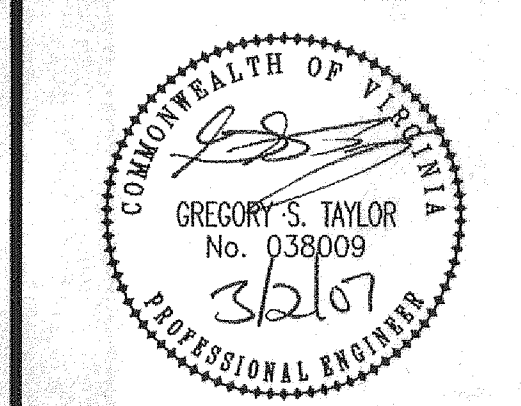


ALL SANITARY SEWER PIPE INSTALLED ON GRADES GREATER THAN 25% SLOPE SHALL BE RESTRAINED JOINT DUCTILE IRON PIPE - SPECIFICALLY "PUSH-JOINT" PIPE THAT HAS THE LOCKING MECHANISM BUILT INTO THE BELL AND SPIGOT. MECHANICAL JOINT PIPE IS NOT ACCEPTABLE. RETAINER GLANDS ARE NOT ACCEPTABLE.

ALL SANITARY SEWER PIPE INSTALLED ON GRADES GREATER THAN 25% SHALL HAVE ANTI-SEEP BACKFILL INSTALLED AROUND THE PIPE. INSTALLATION SHALL BE A FIVE (5) FOOT LENGTH OF PIPE INSTALLED WITH COMPACTED SOIL (NON-GRANULAR, MOSTLY CLAY) FROM THE BOTTOM OF THE EXCAVATION TO THE SURFACE. NO BEDDING IS TO BE USED IN THIS SECTION OF PIPE. THE INTENT IS TO NOT ALLOW OR TO STOP ANY SURFACE OR GROUND WATER FROM FOLLOWING THE BEDDING OF THE PIPE DOWN STEEP SLOPES. THESE FIVE (5) FOOT SECTIONS OF SPECIAL BACKFILL SHALL BE INSTALLED AT THE TOP OF THE SLOPE AND ON EVERY OTHER JOINT OF PIPE FOR THE LENGTH OF THE SLOPE.

MANHOLES A2, A9, & A11 SHALL HAVE THEIR BASE CASE 2' DEEPER THAN THE PROFILE SHOWN TO AID IN STABILITY. THE VOID SPACE BELOW THE PIPE INVERTS SHALL BE FILLED WITH CONCRETE.

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Site Development Plan

Prepared for Slate Hill II, LLC

Cave Spring Magisterial District
Roanoke, Virginia

REVISIONS:

County & VDOT Comment Revisions	August 8, 2006
County & VDOT Comment Revisions	October 20, 2006
County, WWA & VDOT Revisions	December 8, 2006
County, WWA & VDOT Revisions	January 12, 2007
County, WWA & VDOT Revisions	March 2, 2007

DESIGNED BY: GST
DRAWN BY: GST
CHECKED BY: SRB
SCALE: AS NOTED
DATE: April 7, 2006

SHEET TITLE:
Sanitary Sewer Profiles