

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE SECOND SECTION OF A 70 LOT (TOTAL) RESIDENTIAL SUBDIVISION WITH ASSOCIATED ROAD, WATER, SANITARY SEWER AND DRAINAGE SYSTEMS. SECTION 2 CONSISTS OF 35 LOTS. THE DISTURBED AREA IN SECTION No. 2 IS APPROXIMATELY 12 ACRES.

EXISTING SITE CONDITIONS

THIS SITE IS MODERATELY SLOPING AND DRAINS TO AN EXISTING NATURAL WATERCOURSE THAT DRAINS IN A SOUTHEASTERLY DIRECTION ON THE OPPOSITE SIDE OF ROSELAWN ROAD FROM THE PROPERTY.

ADJACENT AREAS

THIS DEVELOPMENT IS BORDERED ON NORTH EAST SIDE BY PRIVATE PROPERTIES OWNED BY WAYNE E. & GLENNA S. WINTER AND JASPER A. & SHARON C. BRUNDEGE, ON THE SOUTH SIDE BY STONE MANOR SECTION 1, TO THE WEST BY ROSELAWN ROAD, AND TO THE NORTHWEST BY PROPERTIES OWNED BY NORMAN M. TYLER, JR. & DIANE L. TYLER, DORIS P. MARTHA BLEVINS LIGHT, AND MARIE HAWLEY WINTER.

OFFSITE AREAS

THIS IS A BALANCED SITE; THEREFORE, THERE SHOULD BE NO NEED FOR OFFSITE FILL OR BORROW AREAS. HOWEVER, IF NEEDED, THE LOCATION OF ALL OFFSITE FILL OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT SHALL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.

EROSION AND SEDIMENT CONTROL MEASURES

CONSTRUCTION ENTRANCE (3.02) - TWO STONE CONSTRUCTION ENTRANCES SHALL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED ONTO EXISTING ROADS.

CONSTRUCTION ROAD STABILIZATION (3.03) - CONSTRUCTION ROAD STABILIZATION SHALL BE INSTALLED TO MINIMIZE EROSION WITHIN THE ROADWAY.

SILT FENCE (3.05) - SILT FENCE SHALL BE INSTALLED AT THE DOWNHILL ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

INLET PROTECTION (3.07) - INLET PROTECTION SHALL BE USED AT ALL PROPOSED DROP INLETS TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO ENTERING THE STORM DRAIN SYSTEM.

DIVERSION DIKE (3.08) - DIVERSION DIKES SHALL BE INSTALLED TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT TRAPS.

TEMPORARY FILL DIVERSION (3.10) - A TEMPORARY FILL DIVERSION IS A CHANNEL WITH A SUPPORTING RIDGE OF SOIL ON THE LOWER SIDE, CONSTRUCTED ALONG THE TOP OF AN ACTIVE EARTH FILL TO DIVERT RUNOFF FROM UPSLOPE AREA AWAY FROM UNPROTECTED SLOPE TO A STABILIZED OUTLET OR SEDIMENT TRAP/BASIN.

DIVERSION (3.12) - A DIVERSION IS A CHANNEL CONSTRUCTED ACROSS A SLOPE WITH A SUPPORTING RIDGE OF SOIL ON THE LOWER SIDE TO INTERCEPT AND DIVERT RUNOFF TO STABILIZED OUTLETS AT NON-EROSIVE VELOCITIES.

TEMPORARY SEDIMENT TRAPS (3.13) - SEDIMENT TRAPS SHALL BE UTILIZED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE. TWO OF THESE TEMPORARY SEDIMENT TRAPS WILL BE UTILIZED AS INTERMEDIATE TRAPS TO SLOW AND FILTER SEDIMENT LADEN WATER BEFORE IT ENTERS THE SEDIMENT BASIN.

TEMPORARY SEDIMENT BASIN (3.14) - A SEDIMENT BASIN SHALL BE UTILIZED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE.

TEMPORARY SLOPE DRAIN (3.15) - A TEMPORARY SLOPE DRAIN CONSISTING OF HOPE CONDUIT SHALL BE INSTALLED FROM THE TOP TO THE BOTTOM OF STEEP SLOPES TO CONDUCT CONCENTRATED RUNOFF SAFELY DOWN THE SLOPE WITHOUT CAUSING EROSION OF THE SLOPE. USE DIVERSION DIKE OR TEMPORARY FILL DIVERSION ABOVE SLOPE TO CONCENTRATE FLOW TO FLARED END SECTION INLET.

STORM WATER CONVEYANCE CHANNEL (3.17) - A STORMWATER CONVEYANCE CHANNEL SHALL BE UTILIZED TO GUIDE WATER FROM THE SEDIMENT BASIN EMERGENCY SPILLWAY & PRIMARY OUTFALL DIRECTLY TO THE ROADSIDE DITCH ON ROSELAWN ROAD.

TEMPORARY SEEDING (3.31) - THE TEMPORARY DIVERSION DIKES, TOPSOIL STOCKPILES AND ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISH GRADED DURING THE INITIAL PHASE OF CONSTRUCTION, SHALL BE SEED WITH FAST GERMINATING, TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING, OR INSTALLATION IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.

PERMANENT SEEDING (3.32) - ALL DISTURBED AREAS ONSITE SHALL RECEIVE PERMANENT SEEDING. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE SHEET 6.

STORMWATER MANAGEMENT

STORMWATER MANAGEMENT FACILITIES WERE DESIGNED IN ACCORDANCE WITH ROANOKE COUNTY STANDARDS WITH SECTION 1 OF THIS DEVELOPMENT TO ACCOUNT FOR THE INCREASE IN RUNOFF. NO FURTHER DETENTION IS REQUIRED.

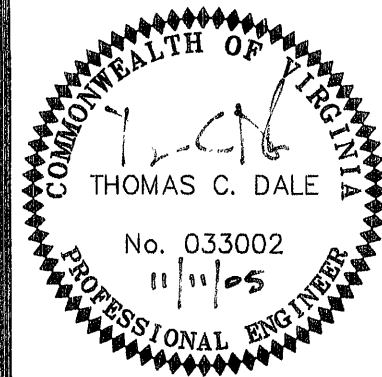
MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:

1. THE SEDIMENT TRAPS AND SEDIMENT BASIN SHALL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
2. THE SILT FENCE SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEDED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.
4. CONSTRUCTION ENTRANCE, INLET PROTECTION, OUTLET PROTECTION, AND ROCK CHECK DAMS SHALL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. IF STONE IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED, CLEANED, AND/OR REPLACED.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL APPLY FOR DCR LAND DISTURBING PERMIT AT LEAST TWO (2) DAYS PRIOR TO LAND DISTURBANCE AND PROVIDE ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT A COPY OF SAID PERMIT WITHIN FIVE (5) DAYS OF ISSUANCE.
2. A CERTIFIED RESPONSIBLE LAND DISTURBER SHALL BE NAMED AND A COPY OF HIS RLD CERTIFICATE SUBMITTED TO ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT AT LEAST 2 DAYS PRIOR TO THE PRECONSTRUCTION MEETING. RLD SHALL ATTEND SAID MEETING.
3. INSTALL CONSTRUCTION ENTRANCE, DIVERSION, SEDIMENT BASIN AND SILT FENCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
4. INSTALL DRAINAGE SWALES, SEDIMENT TRAPS AND THEIR RESPECTIVE DIVERSION DIKES AS SOON AS GRADING OPERATIONS BEGIN IN THE AFFECTED AREAS. THE CONSTRUCTION PROCESS SHOULD BE SEQUENCED AS MUCH AS POSSIBLE SO THAT EACH AREA IS SEEDDED AND STABILIZED PRIOR TO BEGINNING GRADING OPERATIONS IN ANOTHER AREA.
5. INSTALL INLET PROTECTION AND OUTLET PROTECTION ALONG WITH THE STORM DRAIN CONSTRUCTION.
6. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.



EROSION & SEDIMENT CONTROL PLAN

SECTION No. 2 STONE MANOR PREPARED FOR BOONE HOMES, INC. WINDSOR HILLS MAGISTERIAL DISTRICT ROANOKE COUNTY, VIRGINIA

NO.	DATE	DESCRIPTION
1	11/11/05	REVISED SEDIMENT BASIN PRIMARY SPILLWAY AND ADDED PIPE SIZES TO TEMP. SLOPE DRAIN
2		
3		
4		
5		

DATE: August 23, 2005

SCALE: 1" = 50'

COMMISSION NO. 01-409

SHEET 9 OF 12

SEE SHEET 10 FOR CONTINUATION OF EROSION AND SEDIMENT CONTROL NARRATIVE

WWW.ID# 6PKXBZ