

THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY. ALSO SEE APPROVED EROSION AND SEDIMENT CONTROL PLAN DATED 3 JAN. 2005.

OFFSITE FILL AREA
SEE APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR TAX# 86.01-01-07 DATED 28 JUNE 2005.

CONSTRUCTION SEQUENCE

1. CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL BE NAMED AT AND ATTEND THE PRE-CONSTRUCTION MEETING AND PROVIDE A COPY OF HIS RLD CERTIFICATE THEREAT.
2. CONTRACTOR SHALL APPLY FOR DEQ LAND DISTURBANCE PERMIT AT LEAST TWO (2) DAYS PRIOR TO LAND DISTURBANCE AND PROVIDE ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT COPY OF SAID PERMIT WITHIN FIVE (5) DAYS OF ISSUANCE.
3. USE EXISTING CONSTRUCTION ENTRANCE.
4. INSTALL SILT FENCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
5. INSTALL DIVERSION DIKES AND SEDIMENT TRAPS AS REQUIRED FOR GRADING PHASES. TEMPORARY DIVERSION DIKES MAY NEED TO BE RELOCATED AS REQUIRED GRADING OPERATIONS PROGRESS.
6. AREAS TO BE CUT AND FILLED ARE TO BE CLEARED AND GRADED IN PHASES. THIS PHASING WILL BE DONE TO MINIMIZE THE LENGTH OF TIME AREAS ARE SUBJECT TO EROSION. ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS IN THE AFFECTED AREAS.
7. INSTALL INLET PROTECTION AND OUTLET PROTECTION ALONG WITH STORM DRAIN CONSTRUCTION.
8. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED WITH IMPROVEMENTS OR ESTABLISHED VEGETATION.
9. PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES OWNER/DEVELOPER SHALL BE NOTIFIED IF INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES MAY AFFECT TREES HAVING A TRUNK DIAMETER GREATER THAN SIX (6) INCHES.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BI-WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. ACCUMULATED SEDIMENT AT TRAPPING MEASURES SHALL BE ROUTINELY REMOVED.

ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DOR'S MS-18. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT IS LOCATED OFF TWO FORD ROAD IN ROANOKE COUNTY. THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A NEW, 30 UNIT, SINGLE FAMILY DETACHED, RESIDENTIAL DEVELOPMENT. APPROXIMATELY 7.9 ACRES OF LAND WILL BE DISTURBED WITH THIS PROJECT.

EXISTING SITE CONDITIONS:
THE SITE IS MAINLY WOODED, MODERATELY SLOPING (2% - 13%), WITH SOME STEEP SLOPE AREAS (25% - 47%). VEGETATION IS PRIMARILY FOREST WITH MODERATE BRUSH. THE ENTIRE SITE DRAINS INTO AN UNNAMED TRIBUTARY OF MUD LICK CREEK. THIS DEVELOPMENT WILL NOT ALTER THIS DRAINAGE PATTERN.

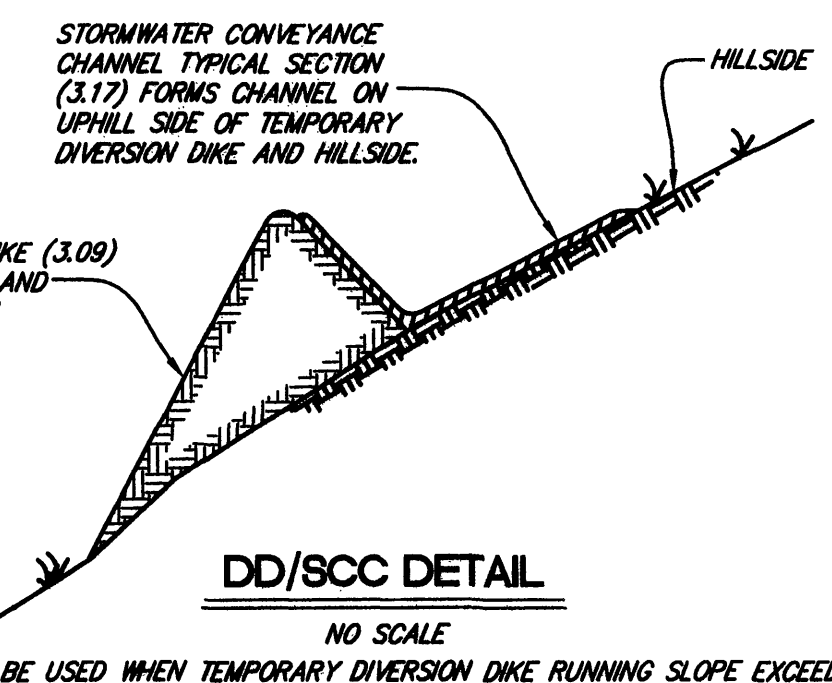
ADJACENT AREAS:
THIS DEVELOPMENT IS BORDERED ON THE NORTH AND EAST BY RESIDENTIAL PROPERTY, TO THE SOUTH BY TWO FORD ROAD AND TO THE WEST BY RESIDENTIAL PROPERTY ALONG CAVALIER DRIVE.

OFF-SITE AREAS:
THE OFFSITE FILL AREA FOR THIS PROJECT IS LOCATED ON TAX MAP # 86.01-01-07 (THE COON PROPERTY) NEAR THE CORNER OF TWO FORD AND ROSELAWN ROADS. SEE THE APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR TAX # 86.01-01-07 FOR ADDITIONAL INFORMATION. THE LOCATION OF OTHER OFFSITE BORROW OR FILL AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THOSE AREAS.

...CONTINUED ON SHEET 13 OF 13.

SPECIAL NOTE
DIVERSION DIKE (3.08) / STORMWATER CONVEYANCE CHANNEL (3.17) - WHERE TEMPORARY DIVERSION DIKE (DD) EFFECTIVELY CREATES A CHANNEL SLOPE GREATER THAN TWO PERCENT (2%) THE EFFECTIVE CHANNEL PORTION OF THE TEMPORARY DIVERSION DIKE SHALL BE CONSTRUCTED AS A STORMWATER CONVEYANCE CHANNEL (SCC). SEE "DD/SCC" DETAIL BELOW.

EROSION AND SEDIMENT CONTROL MEASURES
CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.
CONSTRUCTION ROAD STABILIZATION (3.03) - CONSTRUCTION ROAD STABILIZATION WILL BE INSTALLED TO MINIMIZE THE EROSION WITHIN THE UNFINISHED ROADS.
SILT FENCE (3.05) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.
INLET PROTECTION (3.07) - INLET PROTECTION WILL BE INSTALLED AT EACH STORM DRAIN INLET TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
CULVERT INLET PROTECTION (3.08) - CULVERT INLET PROTECTION WILL BE INSTALLED AT THE INLET END OF CULVERTS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING THE CULVERT.
DIVERSION DIKE (3.08) - DIVERSION DIKES WILL BE INSTALLED TO DIVERT OFFSITE RUNOFF AROUND THE CONSTRUCTION AREA AND ALSO TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT TRAPS.
TEMPORARY SEDIMENT TRAPS (3.13) - SEDIMENT TRAPS WILL BE UTILIZED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE.
OUTLET PROTECTION (3.18) - OUTLET PROTECTION WILL BE INSTALLED TO PREVENT EROSION AND SCOUR AT THE OUTLET ENDS OF CULVERTS.
ROCK CHECK DAMS (3.20) - ROCK CHECK DAMS WILL BE INSTALLED TO PREVENT EROSION AND VELOCITY WITHIN DRAINAGE DITCHES.
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 STABILIZATION
ALL DISTURBED AREAS ONSITE MUST RECEIVE PERMANENT SEEDING. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE THE EROSION AND SEDIMENT CONTROL DETAIL SHEET.



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10-1-05
PROFESSIONAL ENGINEER

EROSION AND SEDIMENT CONTROL PLAN

"THE PRESERVE AT TWO FORD ROAD"
PREPARED FOR
BENCHMARK BUILDERS, INC.
WINDSOR HILLS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

NO.	DATE	DESCRIPTION
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4		
5		

DATE: October 10, 2005
SCALE: 1"=50'
COMMISSION NO.: 02-244

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