



THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT 1-800-552-7001 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

- NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT VERSION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
 2. ALL PROPOSED DROP INLETS AND CURB INLETS ARE TO HAVE BLOCK AND GRAVEL INLET PROTECTION.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION CONTROL DEVICES SHALL BE CHECKED DAILY TO INSURE THAT ALL ARE PROPERLY IN PLACE AND FUNCTIONING AS PLANNED. ALL EROSION CONTROL DEVICES WILL BE REPAIRED (CLEANED) AS NECESSARY, AND AFTER EACH RAINFALL PRODUCING RUNOFF.
 4. STORM SEWER SYSTEM WILL BE INSPECTED UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL REMOVE ANY SEDIMENT OR DEBRIS FOUND IN STORM SYSTEM AT CONTRACTOR'S EXPENSE.
 5. ALL DISTURBED AREAS TO RECEIVE TEMPORARY SEEDING AND MULCH. PERMANENT SEEDING TO BE SOD BY DEVELOPER.
 6. ALL RIPRAP TO BE EC-1 CLASS I.
 7. ALL TEMPORARY SEDIMENT BASINS SHALL BE REMOVED ONCE THE SITE HAS STABILIZED AND A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED AND BASE STONE HAS BEEN LAID IN AREAS TO BE PAVED.
 8. ALL FILL TO BE COMPACTED TO 98% STANDARD PROCTOR, PLACED IN 6" LOOSE LIFTS IN BUILDING AREAS. ALL OTHER FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 9. PROVIDE TEMPORARY SEEDING AND MULCH ON ALL DIVERSIONS AND BASINS IMMEDIATELY FOLLOWING CONSTRUCTION (SAME DAY).
 10. NO EXCESS MATERIAL IS EXPECTED OTHER THAN THE TOPSOIL THAT MUST BE HAULED OFFSITE. CONTRACTOR TO PROVIDE ROANOKE COUNTY WITH AN APPROVED E&S PLAN FOR ALL OFFSITE WASTE AREAS.
 11. SEE DETAIL SHEET 29 FOR SEDIMENT BASIN DETAILS.
 12. NO LAND DISTURBING ACTIVITY SHALL OCCUR PRIOR TO THE CONTRACTOR OBTAINING THE LAND DISTURBANCE PERMIT FROM THE COUNTY. CONTRACTOR RESPONSIBLE FOR BOND.
 13. CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DEEMED NECESSARY BY THE COUNTY INSPECTORS.
 14. CONTRACTOR TO CHECK AND MAINTAIN SEDIMENT BASINS ONCE A WEEK AND AFTER EVERY STORM EVENT THAT PROVIDES RUNOFF AT A MINIMUM WITHIN 24 HOURS OF RAIN. CONTRACTOR TO CHECK SLOPES, SEEDING, SEDIMENT BUILDUP IN BOTTOM OF SEDIMENT BASIN, AND SPILLWAY INTEGRITY. CONTRACTOR TO DE-WATER SEDIMENT BASIN WITH A "DIRT BAG" OR APPROVED EQUAL MEASURE, AND SILT TO BE DISPOSED OF LEGALLY.
 15. ALL EROSION CONTROL/STORMWATER MANAGEMENT MEASURES MUST BE DE-WATERED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND ALL TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE. SITE CONTRACTOR RESPONSIBLE FOR DEWATERING AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.
 16. SILT FENCE SHOWN INSIDE SITE IS AFTER FINAL GRADES. PERIMETER SILT FENCE MUST BE IN PLACE AS A 1ST STEP MEASURE AND REMAIN UNTIL AFTER FINAL STABILIZATION. USE VDOT 1-1 INVERT SHAPING IN ALL STORM MANHOLES.
 17. CONTRACTOR TO BE RESPONSIBLE FOR REROUTING ALL TEMPORARY DIVERSION DIKES AS NECESSARY DURING CONSTRUCTION TO MAINTAIN PROPER DRAINAGE OF DISTURBED AREAS.
 18. CONTRACTOR TO UTILIZE DUST CONTROL OVER ENTIRE SITE AS NECESSARY TO PREVENT DUST FROM EXITING PROPERTY ONTO ADJACENT RESIDENTIAL LOTS.
 19. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND OR REPLACING ANY STORM SEWER STRUCTURES THAT ARE DAMAGED DURING CONSTRUCTION.
 20. THE Δ OR ∇ DENOTES THE ELEVATION DIFFERENCE BETWEEN THE END OF THE GARAGE TO THE FINISH FLOOR ELEVATION. THIS INFORMS THE CONTRACTOR AS TO HOW TO POUR THE STEP INTO THE GARAGE OF THE UNITS.

- PHASING:**
1. PHASE 1 E&S WILL CONSIST OF THE MEASURES SHOWN FOR THE EXISTING GRADE OF THE SITE.
 2. PHASE 2 E&S WILL COMMENCE DURING AND AFTER PHASE 1 E&S HAS BEEN INSTALLED AND GRADING HAS TAKEN PLACE. A COMBINATION OF THE PHASE 1 AND PHASE 2 PLAN MAY BE NECESSARY TO ADEQUATELY PROTECT THE SITE AND OFFSITE AREAS AND TO CONVEY THE RUNOFF TO THE SEDIMENT BASINS AS THE GRADES ARE CHANGED.
 3. CONTRACTOR SHALL REFER TO SHEETS 10 AND 11 FOR STORMWATER STRUCTURE AND PIPE INFORMATION.



1	09/06/05	PER COUNTY COMMENTS
2	09/06/05	PER CLIENT COMMENTS
3	11/04/05	PER COUNTY COMMENTS
4	12/06/05	PER COUNTY AND VDOT COMMENTS

OVERALL GRADING PLAN
FOR
ORCHARD VILLAS
ROANOKE COUNTY, VIRGINIA

PROJECT NO. 20040345
G.L. NO. 260-04-C4.7
FILE NO. LS-11039
DATE: 09/06/05
DRAWN BY: DLC
CHECKED BY: MDM

