



KEVIN KAMENETZ
County Executive

VINCENT J. GARDINA, *Director*
Department of Environmental Protection
and Sustainability

PROJECT: _____
PROJECT ID #: _____
ENGINEER: _____
REVIEW NO.: _____
DATE: _____

GRADING PLAN REVIEW CHECKLIST

(Please return this checklist with each re-submission)

LEGEND FOR REVIEW CHECKLIST:

<u>✓</u>	Acceptable	<u>X</u>	Not Acceptable	<u>INC</u>	Incomplete
<u>NA</u>	Not Applicable	<u>NC</u>	Not Checked	<u>R</u>	Required, Not Submitted

___ I. CERTIFICATIONS (Must be on the plans):

___ A. **OWNER'S/DEVELOPER'S CERTIFICATION - GRADING:**

I/We certify that all grading on this site will be done in accordance with the current grading requirements as set forth by the Baltimore County Department of Environmental Protection and Sustainability and with the requirements specified in Article 33, Title 5 of the Baltimore County Code.

_____	_____	_____
Signature of Owner/Developer	Title	Date

Print Name		

___ B. The grading plan must be prepared and signed by a professional engineer, land surveyor, landscape architect or architect, licensed to practice in the State of Maryland. (*Seal Required*).

- ___C. A certification note (shown below) must also be placed in a conspicuous location within the seal block of all Phase II Development Plans.



___II. PLAN REQUIREMENTS:

- ___A. Vicinity maps with benchmark information described and location shown.
- ___1. North arrow and scale
 - ___2. Maryland Coordinate System, (MCS) should be indicated in the lower right corner of each sheet.
- ___B. Scope of plan is delineated and noted in title block.
- ___C. General Plan Information:
- ___1. Legend, north arrow and scale (minimum 1" = 50' or larger).
 - ___2. Show three grid ticks on the site plan with MCS coordinates on the crosshairs.
 - ___3. Grading stamps must be placed on the 1st sheet of plans. Required stamps may be found at this link:
<http://resources.baltimorecountymd.gov/Documents/Environment/SWM/swmstamps.pdf>
 - ___4. Limits of disturbance/grading delineated and total area stated in square feet and acres.
 - ___5. Existing and proposed contours are shown in contrasting line types and are adequately labeled at a uniform interval.
 - ___6. Proposed contours reflect grading for scope of plan, i.e., Mass Grading, Roads Only or Final Grading Plan. Interim mass grading contours should not be shown on Final Grading Plan.
 - ___7. Property information:
 - ___a. On-site and adjacent properties clearly labeled with owner, deed reference, etc.
 - ___b. 100 year Floodplain delineation as accepted by Dept. of Public Works.
 - ___c. Temporary easement or letter of permission required for grading shown off-site.
 - ___d. Limits of SWM easements or reservations, streams, wetlands, forest buffer and tree conservation areas designated and delineated.
 - ___8. The grading plan reflects the proposed condition of the SWM Hydrology.
 - ___9. Sediment control devices should not be shown unless needed for coordination.
 - ___10. Erosion and sediment control devices should be perimeter type, located sufficiently outside of proposed grading, therefore, proposed grading should not be shown to the limits of property lines, wetlands, floodplains or buffers.
 - ___11. All storm drain inlets and their connections to the main storm drain system must be shown up to a suitable outfall.

___D. Slope Benching Requirements:

- ___1. For 2H (horizontal): 1V (vertical) grade, the maximum slope height without bench is 20 feet.
- ___2. For 3H:1V grade, the maximum slope height without bench is 30 feet.
- ___3. For 4H:1V grade, the maximum slope height without bench is 40 feet.

___E. Building Requirements:

- ___1. Building locations shown.
- ___2. Sidewalks and driveways shown.
- ___3. Positive drainage shown away from all building foundation walls.
- ___4. Indicate whether the proposed (or minimum) first floor is a concrete slab or wood.
- ___5. Indicate whether the proposed walls are masonry or wood frame.
- ___6. Building code requires a minimum distance 8 inches from any part of the wood framing to proposed ground.
- ___7. Proposed first floor or minimum first floor elevations are shown with related spot ground elevations.
- ___8. Proposed sanitary and water lines and their connections to the existing systems are shown and are included within the Limits of Disturbance.

___F. Grade Requirements:

- ___1. Minimum Gradient (To prevent standing water):
 - ___a. Concrete or other impervious surface, 1/8 inch per foot (1%).
 - ___b. Pervious surface, 1/4 inch per foot (2%).
- ___2. Maximum gradient within 6 feet away from all building foundation walls shall be 4H:1V, 3 inches per foot (25%).
- ___3. 3H:1V maximum grade on residential use.
- ___4. 2H:1V maximum grade on non-residential use.
- ___5. Retaining walls shown with bottom and top of wall elevations where slopes cannot meet maximum grade (2:1 or 3:1) requirements.

___G. Well and Septic Requirements:

- ___1. Well and septic reserve areas shown.
- ___2. Positive drainage away from water supply wells and septic systems.
- ___3. Excavation is prohibited in septic reserve area.
- ___4. Slopes 4H:1V or steeper are not permitted within 25 feet on the downslope side of septic reserve area.
- ___5. Maintain a min. 25' setback from septic reserve area to sediment basin/traps.

___H. Swale Requirements:

- ___1. Swales must outfall to a public road, drainage and utility easement, inlet, or other suitable location.
- ___2. Swales must meet longitudinal gradient standard, 2% min. for vegetative swale.
- ___3. Safe drainage conveyance overland must be available should the underground drainage systems surcharge or below ground systems fail.

