

ENVIRONMENTAL SITE DESIGN CHECKLIST

Your Name _____ Date _____

Project Name _____

County ID # _____ Site Area: _____ acres Imperviousness: _____ %

LEVEL I ANALYSIS: ARE ENVIRONMENTAL SITE DESIGN (ESD) PRACTICES PROPOSED?

1. Do you see any of the following ESD practices on project plans? Yes No
If yes, note below the number of each type ESD practice you see on the plans

| NUMBER | ESD PRACTICE |
|--------|---|
| | A-1 Green Roofs |
| | A-2 Permeable Pavements |
| | A-3 Reinforced Turf |
| | N-1 Disconnection of Rooftop Runoff |
| | N-2 Disconnection of Non-Rooftop Runoff |
| | N-3 Sheetflow to Conservation Areas |
| | M-1 Rainwater Harvesting |
| | M-2 Submerged Gravel Wetlands |

| NUMBER | ESD PRACTICE |
|--------|--|
| | M-3 Landscape Infiltration |
| | M-4 Infiltration Berms |
| | M-5 Dry Wells |
| | M-6 Micro-Bioretenion |
| | M-7 Rain Gardens |
| | M-8 Swales |
| | M-9 Enhanced Filters |
| | Structural Practices (Ponds, Filters, Bioretention...) |

2. If yes, what percentage of proposed impervious areas will either drain to an ESD practice or be made of an alternate surface (Green Roof, Permeable Pavement or Reinforced Turf)? %

LEVEL II ANALYSIS: ARE FORESTS, STEEP SLOPES & WATERWAYS PROTECTED?

3. Will Forest Conservation requirements be met on the site?
- Do you see any Forest Conservation or Buffer Easements on the plan? Yes No Uncertain
 - Do you see references to Forest Conservation-Buffer Easements on the plan? Yes No Uncertain
 - Do you see any reference to a Fee-In-Lieu-Of or Grandfathering on the plan? Yes No Uncertain
4. Are steep slopes protected? *Look for areas with dark highlighting.*
- Does the plan show steep slopes (>25%) present on the site? Yes No Uncertain
 - If steep slopes are present, then do the plans show new roads, buildings or other disturbances within the steep slope areas? Yes No Uncertain
5. Waterway Buffers Protected? *Use My Neighborhood or MERLIN to see if waterways are on or near the site*
- Are wetlands present? Yes No Uncertain
 If yes, are they protected with a minimum 25-foot buffer? Yes No Uncertain
 - Do tidal waters adjoin the site? Yes No Uncertain
 If yes, are buildings and other disturbances set back a minimum of 100 feet? Yes No Uncertain

- c. Are streams present on or near the site? Yes No Uncertain
 If yes, are buildings and other disturbances set back a minimum of 75 feet? . Yes No Uncertain

LEVEL III ANALYSIS: DETAILED ESD PRACTICE ANALYSIS

- 6. Closely examine each proposed building, street, parking lot and other proposed impervious surface.
 - a. Are all proposed impervious surfaces located upslope of an ESD practice? . . Yes No Uncertain
If yes, go to Question 7.
 - b. If a proposed building **does not** appear to drain to an ESD practice then do you see any indication that it will have a Green Roof? Yes No Uncertain
 - c. If a proposed parking area **does not** appear to drain to ESD practices then do you see any indication that Permeable Pavers will be used? Yes No Uncertain

- 7. Place a check in the box next to any ESD practices that appears to drain an area greater than the following permitted maximums and highlight the problem practices on the plan with yellow highlighter, a red circle, etc.:
 - N-1 Disconnection of Rooftop Runoff: 500 square feet
 - N-2 Disconnection of Non-Rooftop Runoff: 1,000 square feet
 - N-3 Sheetflow to Conservation Areas: 1,000 square feet
 - M-1 Rainwater Harvesting 1.0 acre
 - M-2 Submerged Gravel Wetlands: 1.0 acre
 - M-3 Landscape Infiltration: 0.25 acres
 - M-4 Infiltration Berms 1.0 acre
 - M-5 Dry Wells: 0.01 acres - 500 square feet
 - M-6 Micro-Bioretenion: 0.50 acres
 - M-7 Rain Gardens: 0.25 acres
 - M-8 Swales: 1.0 acre
 - M-9 Enhanced 1.0 acre

Note: A Green Roof, Permeable Pavers and Reinforced Turf only treat precipitation that falls directly upon each practice. Runoff from adjacent areas generally cannot be directed to these three practices.

COMMENTS
