

5.4.2 Nonstructural Practices

N-1. ROOFTOP DISCONNECTION

REQUIRED

➔ **Items/stages that must be confirmed/documented:**

- ☐ --- 1. All contributing areas are stabilized or device is protected
- ☐ --- 2. Final grading and permanent stabilization
- ☐ --- --- a. Pervious area is between 15-FT and 75-FT long
- ☐ --- --- b. Average slope is 5% or less
- ☐ --- --- c. Disconnected downspouts are at least 10-FT from the nearest impervious surface
- ☐ --- --- d. Vegetation is well established

➔ **Inspection and Verification Provided By:**

- ☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)
* *Locate the ESD on a drawing in relation to the house/structure*
- ☐ --- OPTION-1: Certified by a Licensed Professional
OR
- ☐ --- OPTION-2: Each item/stage documented with digital photo by builder
(*Must be clear and indisputable photo evidence of compliance*)
OR
- ☐ --- OPTION-3: Each item/stage inspected by County
- ☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

N-2. NON-ROOFTOP DISCONNECTION

REQUIRED

→ Items/stages that must be confirmed/documented:

- ☐ --- 1. All contributing areas are stabilized or device is protected
- ☐ --- 2. Final grading and permanent stabilization
- ☐ --- --- a. There is a 1-Ft to 2-FT wide gravel transition strip separating impervious and pervious
- ☐ --- --- a. Pervious area is between 10-FT and 75-FT long
- ☐ --- --- b. Average slope is 5% or less
- ☐ --- --- c. Disconnected is at least 10-FT from the nearest impervious surface
- ☐ --- --- d. Vegetation is well established

→ Inspection and Verification Provided By:

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N-3. SHEETFLOW TO CONSERVATION AREAS

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement for the Conservation Area

➔ **Items/stages that must be confirmed/documented:**

☐ --- 1. All contributing areas are stabilized or protected

☐ --- 2. The conservation area is staked and signed for avoidance

☐ --- 3. Final grading and permanent stabilization

☐ --- --- a. Conservation area is at least 50-FT wide and 20,000-SF in area

☐ --- --- b. Pervious area is between 10-FT and 75-FT long

☐ --- --- c. Average slope is 5% or less

☐ --- --- d. Disconnected is at least 10-FT from the nearest impervious surface

☐ --- --- e. Vegetation is well established

➔ **Inspection and Verification Provided By:**

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

* *Locate the ESD on a drawing in relation to the house/structure*

☐ --- OPTION-1: Certified by a Licensed Professional

OR

☐ --- OPTION-2: Each item/stage documented with digital photo by builder

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OR

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☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

5.4.3 Micro-Scale Practices

M-1. A. RAINWATER HARVESTING (CISTERNS)

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ Inspection and Verification Provided By:

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

☐ --- Certified by a Licensed Professional

** Locate the ESD on a drawing in relation to the house/structure, i.e., pull distance from house corners to center of ESD*

☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ Triennial Inspections required in perpetuity

M-1. B. RAINWATER HARVESTING (RAIN BARRELS)

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ Items/stages that must be confirmed/documented:

☐ --- 1. Concrete, block or brick base pad

☐ --- 2. Mosquito screen on top of barrel

☐ --- 3. Overflow pipe (hose) near top to stable discharge

☐ --- 4. Outlet spigot near bottom of barrel

→ Inspection and Verification Provided By:

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

** Locate the ESD on a drawing in relation to the house/structure*

☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ Triennial Inspections required in perpetuity

M-2. SUBMERGED GRAVEL WETLAND

** Not recommended for use on individual lots in residential subdivision*

5.4.3 Micro-Scale Practices

M-3. LANDSCAPE INFILTRATION

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ Items/stages that must be confirmed/documented:

☐ --- 1. All contributing areas are stabilized or device is protected

☐ --- 2. Excavation to subgrade (length, width, depth)

☐ --- 3. Placement of anchored observation well

☐ --- --- a. Proper pipe material (size, thickness, solid, perforated)

--- --- 4. Placement of:

☐ --- --- a. Non-woven filter fabric on sides ONLY (Provide Manufacturer Specs)

☐ --- --- b. Sand, soil and gravel media (per specifications)

☐ --- 5. Placement of appurtenant conveyance structures

☐ --- 6. Placement and choice of plants and mulch layer (per specifications)

☐ --- 7. Final grading and stabilization

☐ --- --- a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug

→ Inspection and Verification Provided By:

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

* *Locate the ESD on a drawing in relation to the house/structure*

☐ --- OPTION-1: Certified by a Licensed Professional

OR

☐ --- OPTION-2: Each item/stage documented with digital photo by builder

(Must be clear and indisputable photo evidence of compliance)

OR

☐ --- OPTION-3: Each item/stage inspected by County

☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ Triennial Inspections required in perpetuity

M-4. INFILTRATION BERMS

REQUIRED

→ **Items/stages that must be confirmed/documented:**

- ☐ --- 1. Proper placement of gravel media and soil
- ☐ --- 2. Upon proper completion of final grading and permanent stabilization
- ☐ --- --- a. Berms are installed on contour are level and at a consistent height
- ☐ --- --- b. In series, toe elevation of upstream berm shall equal top elevation of downstream berm
- ☐ --- --- c. The berm is asymmetric with the top being 2-FT wide
- ☐ --- --- d. The upgrade berm slope is concave
- ☐ --- --- e. Berm side slopes are shallow (3:1 or flatter) to allow for mowing

→ **Inspection and Verification Provided By:**

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M-5. DRY WELLS

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/documented:**

☐ --- 1. All contributing areas are stabilized or device is protected

☐ --- 2. Excavation to subgrade (length, width, depth)

☐ --- 3. Placement of anchored observation well

☐ --- --- a. Proper pipe material (size, thickness, solid, perforated)

--- --- 4. Placement of:

☐ --- --- a. Non-woven filter fabric on sides ONLY (Provide Manufacturer Specs)

☐ --- --- b. Sand and gravel media (per specifications)

☐ --- 5. Placement of appurtenant conveyance structures

☐ --- 6. Final grading and stabilization

☐ --- --- a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug

☐ --- --- b. Located downhill from building structures

☐ --- --- c. Min 10-FT from buildings

☐ --- --- d. Min 50-FT from confined water supply wells (100-FT from non-confined)

☐ --- --- e. Min 25-FT from septic systems

☐ --- --- f. Min 100-FT from fill slopes of 15% and 200-FT from fill slopes of 25%

→ **Inspection and Verification Provided By:**

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* *Locate the ESD on a drawing in relation to the house/structure*

☐ --- OPTION-1: Certified by a Licensed Professional

OR

☐ --- OPTION-2: Each item/stage documented with digital photo by builder

(*Must be clear and indisputable photo evidence of compliance*)

OR

☐ --- OPTION-3: Each item/stage inspected by County

☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

M-6. MICRO-BIORETENTION

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ **Items/stages that must be confirmed/documented:**

☐ --- 1. All contributing areas are stabilized or device is protected

☐ --- 2. Excavation to subgrade (length, width, depth)

☐ --- 3. Placement of anchored observation well

☐ --- --- a. Proper pipe material (size, thickness, solid, perforated)

☐ --- 4. Placement of sand and gravel media (per specifications)

☐ --- 5. Placement of appurtenant conveyance structures

☐ --- 6. Placement and choice of plants and mulch layer (per specifications)

☐ --- 7. Final grading and stabilization

☐ --- --- a. Observation well 6"-12" above final grade with glued cleanout adaptor and removable plug

☐ --- --- b. Located downhill from building structures

☐ --- --- c. Min 10-FT from buildings

☐ --- --- d. Min 50-FT from confined water supply wells (100-FT from non-confined)

☐ --- --- e. Min 25-FT from septic systems

☐ --- --- f. Min 100-FT from fill slopes of 15% and 200-FT from fill slopes of 25%

→ **Inspection and Verification Provided By:**

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

* *Locate the ESD on a drawing in relation to the house/structure*

☐ --- OPTION-1: Certified by a Licensed Professional

OR

☐ --- OPTION-2: Each item/stage documented with digital photo by builder
(*Must be clear and indisputable photo evidence of compliance*)

OR

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☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ **Triennial Inspections required in perpetuity**

5.4.3 Micro-Scale Practices

M-7. RAIN GARDENS

REQUIRED

☐ --- Deed of Easement and Maintenance Agreement

→ Items/stages that must be confirmed/documented:

☐ --- 1. All contributing areas are stabilized or device is protected

☐ --- 2. Excavation to subgrade (length, width, depth)

☐ --- 3. Placement of planting soil and other media (per specifications)

☐ --- 4. Placement of appurtenant conveyance structures

☐ --- 5. Placement and choice of plants and mulch layer (per specifications)

☐ --- 6. Final grading and stabilization

→ Inspection and Verification Provided By:

☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)

** Locate the ESD on a drawing in relation to the house/structure*

☐ --- OPTION-1: Certified by a Licensed Professional

OR

☐ --- OPTION-2: Each item/stage documented with digital photo by builder
(*Must be clear and indisputable photo evidence of compliance*)

OR

☐ --- OPTION-3: Each item/stage inspected by County

☐ --- Final Inspection and Approval by COUNTY prior to U&O issuance

→ Triennial Inspections required in perpetuity

5.4.3 Micro-Scale Practices

M-8. SWALES

REQUIRED

→ **Items/stages that must be confirmed/documented:**

- ☐ --- 1. Proper placement and backfill of underdrain and sand, soil or gravel medias
- ☐ --- 2. Installation of diaphragms, forebays, check dams and weirs (per specifications)
- ☐ --- 3. Upon proper completion of final grading and permanent stabilization
 - ☐ --- --- a. Bottom width is between 2-FT and 8-FT wide (per specifications)
 - ☐ --- --- b. The channel slope 4.0% or less
 - ☐ --- --- c. Channel side slopes are 3:1 or flatter
 - ☐ --- --- d. There is a thick vegetative cover

→ **Inspection and Verification Provided By:**

- ☐ --- As-Built drawing (*Must be provided prior to Final Inspection*)
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OR
- ☐ --- OPTION-2: Each item/stage documented with digital photo by builder
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M-9. ENHANCED FILTERS

- An Enhanced Filter is a modification applied to a specific practice (e.g., micro-bioretenion) to add groundwater recharge (Re_v) to the ESD. The installation of the construction of the enhanced filter will be incorporated into the design and stages of the ESD practice it enhances.

→ **Items/stages that must be confirmed/documented:**

Follow the requirements listed for the ESD being enhanced.

→ **Inspection and Verification Provided By:**

Follow the requirements listed for the ESD being enhanced.