

ADDENDUM \_\_\_\_\_  
FILTER STRIP / LEVEL SPREADER  
STORMWATER BEST MANAGEMENT PRACTICE  
MINIMUM MAINTENANCE MEASURES

Project Name: \_\_\_\_\_

I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the removal efficiency of the BMP.

Important operation and maintenance procedures:

- Immediately after the filter strip is established, any newly planted vegetation will be watered twice weekly if needed until the plants become established (commonly six weeks).
- Once a year, the filter strip will be reseeded to maintain a dense growth of vegetation
- Stable groundcover will be maintained in the drainage area to reduce the sediment load to the vegetation.
- Two to three times a year, grass filter strips will be mowed and the clippings harvested to promote the growth of thick vegetation with optimum pollutant removal efficiency. Turf grass should not be cut shorter than 3 to 5 inches and may be allowed to grow as tall as 12 inches depending on aesthetic requirements (NIPC, 1993). Forested filter strips do not require this type of maintenance.
- Once a year, the soil will be aerated if necessary.
- Once a year, soil pH will be tested and lime will be added if necessary.

After the filter strip is established, it will be inspected **quarterly and within 24 hours after every storm event greater than 1.0 inch**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediate

| BMP element:                             | Potential problem:                   | How I will remediate the problem:                                        |
|------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|
| The entire filter strip system           | Trash/debris is present.             | Remove the trash/debris.                                                 |
| The flow splitter device (if applicable) | The flow splitter device is clogged. | Unclog the conveyance and dispose of any sediment off-site.              |
|                                          | The flow splitter device is damaged. | Make any necessary repairs or replace if damage is too large for repair. |

| <b>BMP element:</b>                | <b>Potential problem:</b>                                                                    | <b>How I will remediate the problem:</b>                                                                                                                                                   |
|------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The swale and the level lip</b> | The swale is clogged with sediment.                                                          | Remove the sediment and dispose of it off-site.                                                                                                                                            |
|                                    | The level lip is cracked, settled, undercut, eroded or otherwise damaged.                    | Repair or replace lip.                                                                                                                                                                     |
|                                    | There is erosion around the end of the level spreader that shows stormwater has bypassed it. | Regrade the soil to create a berm that is higher than the level lip, and then plant a ground cover and water until it is established. Provide lime and a one- time fertilizer application. |
|                                    | Trees or shrubs have begun to grow on the swale or just downslope of the level lip.          | Remove them.                                                                                                                                                                               |
| <b>The bypass channel</b>          | Areas of bare soil and/or erosive gullies have formed.                                       | Regrade the soil if necessary to remove the gully, and then reestablish proper erosion control.                                                                                            |
|                                    | Turf reinforcement is damaged or ripap is rolling downhill.                                  | Study the site to see if a larger bypass channel is needed (enlarge if necessary). After this, reestablish the erosion control material.                                                   |
| <b>The filter strip</b>            | Grass is too short or too long (if applicable).                                              | Maintain grass at a height of approximately three to six inches.                                                                                                                           |
|                                    | Areas of bare soil and/or erosive gullies have formed.                                       | Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is established.<br>Provide lime and a one-time fertilizer application.                 |
|                                    | Sediment is building up on the filter strip.                                                 | Remove the sediment and restabilize the soil with vegetation if necessary. Provide lime and a one-time fertilizer application.                                                             |
|                                    | Plants are desiccated.                                                                       | Provide additional irrigation and fertilizer as needed.                                                                                                                                    |

| <b>BMP element:</b>                     | <b>Potential problem:</b>                                     | <b>How I will remediate the problem:</b>                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The filter strip<br/>(continued)</b> | Plants are dead, diseased or dying.                           | Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application. |
|                                         | Nuisance vegetation is choking out desirable species.         | Remove vegetation by hand if possible. If herbicide is used, do not allow it to get into the receiving water.                                          |
| <b>The receiving water</b>              | Erosion or other signs of damage have occurred at the outlet. | Contact the NC Division of Water Quality Raleigh Regional Office, or the 401 Oversight Unit at 919-807-6300.                                           |

I, \_\_\_\_\_, hereby acknowledge that I am the financially responsible party for maintenance of this stormwater BMP. I will perform the maintenance as outlined above, in compliance with the requirements of the Town of Spring Lake's Phase II Stormwater Ordinance.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

STATE OF NORTH CAROLINA  
COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public of \_\_\_\_\_ County, in the State of North Carolina, do hereby certify that \_\_\_\_\_ personally appeared before me this day and acknowledged the execution of the foregoing instrument.

Witness my hand and seal, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

(SEAL)

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_