




<b>Oak Park Conservancy District Stormwater Best Management Practices (BMPs) Sediment Management Practices (SMPs)</b>		<b>SMP-12</b>
<b>Activity: Filter Strips</b>		
<b>PLANNING CONSIDERATIONS:</b>  <b>Design Life:</b> 1 yr  <b>Acreage Needed:</b> Minimal  <b>Estimated Unit Cost:</b> Avg: \$100 Range: \$50-\$150  <b>Monthly Maintenance:</b> 60% of Installation		
	<b>Target Pollutants</b>	
	Significant ♦                      Partial    ♦                      Low or Unknown ♦	
	Sediment ♦    Heavy Metals ♦    Nutrients ♦    Oxygen Demanding Substances ♦    Toxic Materials ♦ Oil & Grease ♦    Bacteria & Viruses ♦    Floatable Materials ♦    Construction Waste ♦	
<b>Description</b>	Utilizing vegetation allows soil to be protected from erosion and velocity flow while reducing or preventing discharge of pollutants to the storm system or waterways. This method uses filter strips to accomplish the goal of filtering sediment needing to be settled out of runoff.	
<b>Suitable Applications</b>	<ul style="list-style-type: none"> <li>➤ Areas that need immediate cover (such as sodding and plugging) due to having turf prior to construction, areas subject to erosion (graded or cleared areas), and permanent vegetative areas</li> <li>➤ Wetlands and/or sensitive water bodies</li> <li>➤ Steep and unstable slopes</li> <li>➤ Temporary or permanent buffer areas that include the floodway and 50 feet perpendicular to the floodway. If a floodway has not been determined then the buffer must be 25 feet perpendicular from each side of the stream bank, creek, or unnamed waterway under "bank-full conditions"</li> <li>➤ Area within the buffer must not be cleared. It should be surveyed, flagged and delineated by a colored temporary fence and these instructions explained to each employee on the site</li> </ul>	

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<b>Installation Procedures</b>	<ul style="list-style-type: none"> <li>➤ Cultivate the area then install the irrigation system</li> <li>➤ Areas should be excavated and backfilled (plant holes)</li> <li>➤ Areas are to be fine graded and rolled prior to sodding</li> <li>➤ Sodded areas are to be uniform and smooth (prior to sodding) and distributed with top soil were needed (to even out the area)</li> <li>➤ Sod end of adjacent strips should stagger by half the width or length</li> <li>➤ Areas adjacent to sidewalks, concrete headers, header boards and other paved borders shall be 1.5 in-0.25 in below the top grade of the facilities</li> <li>➤ Seed beds should be added to fertilizers and added to the correct site condition to slow the velocity of runoff and allow sediment to take place</li> <li>➤ Roll sod to eliminate air pockets and allow a closer contact with the soil.</li> <li>➤ Water sod so that the soil at a minimum depth of 4 feet is moistened</li> <li>➤ Do not allow sod to dry out</li> <li>➤ Sod should not be planted on slopes that are greater than 3:1 (H:V) if no mowing is to occur</li> <li>➤ Vegetate sodded areas</li> <li>➤ Do not use buffer strip for vehicular traffic</li> <li>➤ All fertilization efforts should follow the outline of the state, county, and/or local government</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>➤ Inspect weekly after rainfall events until turf is established</li> <li>➤ Mowing shall consist of "tall" mowing, weeding and the irrigation system is growing and operating properly</li> <li>➤ Fertilize as needed and as indicated by soil testing</li> <li>➤ Overseed, repair bare spots, or apply additional mulch as necessary</li> </ul>
<b>Inspection Checklist</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Check for vehicular traffic.</li> <li><input type="checkbox"/> Dead areas requiring seeding, plugging or resodding</li> <li><input type="checkbox"/> Under wash turf compacted.</li> </ul>