<b>CTIVITY:</b> Fil	ter Strips	TCP	TCP – 23		
	GRASS K K K CREEK	PATPAT PATAT	PAP 		
	_	Targeted Const			_
Significant		<ul> <li>Partial Impa</li> <li>Floatable Mater</li> </ul>		• Low or Unk	
	Heavy Metals		Bacteria & V	Oxygen Demanding	g Substances
		elementation Rec			
● Hig	-	Medium	1	◦ Low	7
<ul> <li>Capital Costs</li> </ul>	• O & M Costs	• Maintenance	• Suitab	ility for Slopes >5%	• Training
	partial reduction		metals, toxic	nificant reduction in s materials, floatable m	
Suitable Applications	construction, or permanent, long	for any graded or cle g-lived plant cover is od plains, adjacent to	eared area that needed immo	at contained turf prior at might erode and wh ediately. Filter strips other sensitive water	ere a are particularly
	A buffer match that the buff that the buff the floodwa has not been from each st	by be a planned feature fer include all of a floor y plus 50 feet (15.2 m n determined, the buf ide of the stream ban	re and/or a re oodplain. Ho n) perpendic fer must be a k, creek, or u	equirement of MDPW owever, a buffer must ular to the floodway. at least 25 feet (7.6 m) innamed waterway un dditional descriptions	. It is preferred at least include If a floodway perpendicular ider "bank-full
	5.9, <u>SHALI</u> delineated b	L NOT BE CLEARE	<u>D</u> . They sho	lation presented in Vo uld be surveyed, flagg on fence. This should	ged, and
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## Installation/ Application Criteria

Sodding and plugging is the placement of permanent grass cover that has been grown elsewhere and brought to the site. Sodding stabilizes an area by immediately covering the soil surface with grass, thereby protecting the soil from erosion, enhancing infiltration, filtering sediment and removing other pollutants, and slowing runoff velocities. Plugging stabilizes an area by planting clumps of grass material, which then grow and spread to provide complete covers. Plugging is generally used for hybrid grasses that cannot be established from seed.

Sodding and plugging should only be performed if permitted under regulations presented in Volume 1 Section 5.9.2.

A vegetative filter strip is a vegetated strip of land that is either created with new vegetation as part of a project, or may be a strip of existing vegetation left undisturbed or reinforced on a construction site. The purpose of a vegetative filter strip is to achieve temporary or permanent water quality benefits by slowing the velocity and filtering certain pollutants from stormwater runoff.

- Sod shall be protected with tarps or other protective covers during delivery and shall not be allowed to dry out between harvesting and placement.
- All weeds and debris shall be removed before cultivation of the area to be planted and shall be disposed in accordance with local ordinances.
- After cultivation, installation of irrigation systems, and excavation and backfilling of plant holes are completed, areas to be planted with sod shall be fine graded and rolled. Topsoil may be needed in areas where the soil textures are inadequate. Areas to be planted with sod shall be smooth and uniform prior to placing sod. Areas to be planted with sod adjacent to sidewalks, concrete headers, header boards, and other paved borders and surface areas shall be 1.5 in. 0.25 in. (38 mm 6 mm) below the top grade of such facilities after fine grading, rolling, and settlement of the soil. Sod shall be placed so that ends of adjacent strips of sod are staggered by half the width or length. All edges and ends of sod shall be placed firmly against adjacent sod and against sidewalks, concrete headers, header boards, and other paved borders and surface areas.
- Prepare a good, firm seed bed by adding soil amendments such as fertilizer as needed. After seeding, apply a mulch to protect the vegetation during establishment. Select a seed mixture appropriate to the site conditions, remembering that dense grasses are the most effective in slowing flow velocities and removing pollutants such as sediment. A thick root structure is needed to control erosion.
- After placement of the sod, the entire sodded area shall be lightly rolled to eliminate air pockets and to ensure close contact with the soil. After rolling, the sodded areas shall be watered so that the soil is moistened to a minimum depth of 4 in. (100 mm). Sod shall not be allowed to dry out. Sod should not be planted during very hot or wet weather. Sod should not be placed on slopes that are greater than 3:1 (H:V) if they are to be mowed.
- If irregular or uneven areas appear before or during the plant establishment period,

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	such areas shall be restored to a smooth and even	appearance.			
	<ul> <li>Plant during the best time for the particular grass of</li> </ul>	or vegetation selected.			
	<ul> <li>Use planting equipment and methods that provide placement of seed.</li> </ul>	uniform distribution and prop			
	<ul> <li>Water or irrigate the vegetation as needed to supply</li> </ul>	lement rainfall until established			
	<ul> <li>Avoid using the buffer strip for vehicular traffic as and reduce its effectiveness as a buffer.</li> </ul>	s it will damage the vegetation			
	<ul> <li>Application of fertilizer, lime, or other soil amend and/or local guidelines and label instructions.</li> </ul>	ments shall follow state, count			
Maintenance	<ul> <li>Inspect sod installations weekly and after significant storm events, until the turf is established.</li> </ul>				
	<ul> <li>Maintenance shall consist of "tall" mowing, weeding, and ensuring that the irrigation system is operating properly and as designed to sustain growth.</li> </ul>				
	<ul> <li>Fertilize in accordance with label instructions and indicated by soil tests.</li> </ul>	the needs of the grass and soil			
	• Overseed, repair bare spots, or apply additional m	ulch as necessary.			
Limitations	The purchase and placement of sod is more expensive than growing vegetation from seed. Additionally, sod is generally more expensive to maintain than other types of vegetation because of the need for irrigation, weeding, and mowing. Sod will not survive unless properly maintained. Plugging is more expensive than seed but less expensive than sod. Plugging requires a longer establishment period than for sod before effective control is provided.				
Primary References	Caltrans Storm Water Quality Handbooks, Constructi Specifications, CDM et.al. for the California Departme				
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	gement Practices – Management Practices TCP-23-3				

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Inspection Checklist • Is there evidence of vehicular traffic over the filter strip?

- Are there any dead areas that require seeding, plugging, or resodding?
- Is there evidence of under wash that requires turf compaction?
- Is the strip receiving more flow then it can sustain without eroding?