BEREA, KERHILICKY	City of Berea, Kentucky Stormwater Best Management Practices (BMPs) Erosion Prevention Practices (EPPs)) EPP 4.2.1			
	Activity: Construction Road Stabilization (CRS)				
PLANNING CONSIDERATIONS:					
Design Life: 2 yrs					
Acreage Needed: Variable					
Estimated Unit Cost: Medium		CRS			
Monthly Maintenance:	Target Pollutants				
Negligible	Significant Partial	Low or Unknown ♦			
	Sediment ◆ Heavy Metals ◇ Nutrients ◇ Oxygen Demanding Sub Oil& Grease ◇ Bacteria & Viruses ◇ Floatable Materials ◇ Cons	ostances \diamond Toxic Materials \diamond struction Waste \diamond			
Description	Construction vehicles frequently use access roads, subdivision roads, p on-site transportation routes that are not accessible to the public. Con and drawings should demonstrate methods and practices to stabilize th erosion between the time of initial grading and final stabilization.	struction specifications			
Suitable Applications	 Temporary construction traffic routes, phased construction projects and off-site road access. Detour roads for local or temporary construction traffic. Construction during wet weather. Construction roads utilizing a temporary stream crossing must be indicated and approved. 				
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Approach	-	e roadway. ction traffic. Chemical to prevent dust. No			
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Design Considerations	All existing vegetation (trees, bushes, ground cover) shall be retained as long as feasibly practicable to reduce the exposure of disturbed grounds. Removal of vegetation should be					
for Construction Road Stabilization	4	Alternative routes should be established to incorporate these measures to account for conditions such as dry areas, wet conditions and other circumstances that would inhabit a s and stable route for construction traffic. Permanent roads and parking areas should be pave				
		as soon as possible after grading. The early application of gravel or or solve potential erosion and stability problems where construction w gravel roadways should be considered during the wet weather seaso than 5 percent.	ill be phased. Temporary			
		When gravel roads are needed, a minimum 6-in. course of 2 to 3-in. crushed rock, gravel ba or crushed surfacing base course should be applied immediately after grading or the completion of utility installation within the right-of-way. Chemical stabilization may also be used upon compacted native sub-grade. These chemical controls should be applied per the manufacturer's directions.				
		Installed inlets should be protected to prevent sediment-laden wate sewer system.	r from entering the storn			
	Tem	porary Roads and Parking Areas				
		 Grade The gradient and vertical-horizontal alignment should be design intended traffic patterns. Grades for temporary roads should not exceed 10% for lengths 	-			
	K	 Frequent grade changes can reduce erosion and improve sedin Grades for parking areas should not exceed 4%. 				
		 Width The radius for temporary roads should not be less than 35-feet vehicles, and 50-feet for tractor trailers. 				
		 Temporary road widths should not be less than 14-feet for one two-way traffic. Temporary roads should include two shoulders with a minimur 				
		 each side. Side Slopes All cuts and/or fills should be graded at a slope of 2:1 wheneve A slope of 3:1 should be used whenever machined mowing will ground cover. 	•			
		 Drainage The design and capacity of all drainage structures should be co engineering principles and suitable for the type of road that will permanent. 				
		 Structures should withstand flows from a 25-year, 24-hour stor 	rm event.			

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Design Considerations (cont'd)	A A	 Stabilization Install a 6-inch layer of coarse aggregate immediately after grading or utility installation within the right-of-way. For added stability, a geotextile should be installed beneath the base stone. All adjacent drainage swales, cuts, and fills shall be properly seeded or sodded. Permanent Roads and Parking Areas Permanent roads and parking areas should be designed to the codes and standards of the local authority and the Kentucky Transportation Cabinet. Permanent roads should have an initial base coarse of gravel immediately after site grading. 				
Maintenance	\triangleright	Periodically apply additional aggregate on gravel roads.				
		Active dirt construction roads are commonly watered three or more times per day during the dry season.				
	\triangleright	Remove silt and debris from road side ditches and swales to prevent clogging or dammin				
	\triangleright	Inspect weekly, and after each rain event and repair any eroded area	s immediately.			
Inspection Checklist		Gravel roads are preventing mud and dirt from leaving project area.				
		Dirt and gravel roads do not show signs of erosion, including but not erosion.	limited to, rill and gully			
		All stream crossings are maintained as mandated by the appropriate permit.	general or individual			