



April 30, 2013

**ALL SITES ARE  
REQUIRED TO MEET  
THE MINIMUM  
PERFORMANCE  
STANDARDS:**

**ESC & Pollution  
Prevention**

- Minimize tracking of sediment and debris onto roadways.
- Protect roadways, properties and stormwater facilities from sediment and debris.
- Properly wash out concrete trucks and equipment.
- Protect water bodies, streams and wetland from sediment and pollutants.
- Remove temporary BMPs after permanent controls have been established.

**See Bend Code Title 16  
(link on back) for  
additional minimum  
performance standards:**

16.10.070 Clearing & Grading  
16.10.090 Blasting  
16.10.100 Tree Preservation  
16.15.040 Post Construction

# CITY OF BEND

## Construction Site ESC Compliance featuring the International Erosion Control Association (IECA)

- Free Training Opportunity -

**Contractors, developers, engineers, municipal inspection and construction staff...if you are not completely familiar with Bend Code Title 16, you do not want to miss this!** The City of Bend Stormwater Utility is sponsoring an IECA Erosion and Sediment Control Live Training Course. Attendance is free and PDHs are available. This training will include information to help keep you in compliance with the City's new regulations in a cost-effective manner. As construction ramps up, now is the time to learn the new rules.

### TRAINING COURSE:

*Complying with Erosion and Sediment Control Requirements*

**DATE:** Tuesday, May 14, 2013      **TIME:** 9:00 am to 11:30 am

**LOCATION:** Municipal Court - 555 NE 15th St, Bend OR 97701

### Course Description:

This course will first provide a brief overview of erosion and sediment control requirements in Bend and provide an update on enforcement response. The main course is taught by an erosion and sediment control expert from the IECA, Alex Zimmerman, who will focus on the ever expanding set of tools now available to assist with erosion and sediment controls on active jobsites. Course participants learn how to control costs, prevent erosion, protect water quality, and comply with regulatory requirements in a positive, proactive, profitable manner. Classroom topics will include both choosing and properly implementing Best Management Practices (BMPs), maintenance and inspection, and proper documentation. The session also includes a half hour onsite field demonstration visit.

### To Register:

Please register by contacting David Buchanan (Bend), at [dbuchanan@ci.bend.or.us](mailto:dbuchanan@ci.bend.or.us) or 541-693-2176 with your name, agency/company, and contact information.

### Interested but Can't Make This Time?

Then join us for a repeat of the classroom presentation hosted by Central Oregon Builders Association (COBA), Tuesday May 14, 2013 from 1pm-3pm at the COBA offices, located at 1051 NE 4<sup>th</sup> Street in Bend. Contact Gretchen Palmer (COBA) at 541-389-1058 for registration information and costs.

### A New Enforcement Program:

Over the past year City Staff has been focused on providing education and outreach materials on the recently adopted Stormwater Ordinance – Bend Code Title 16. Now that the (1 year) education and outreach campaign has been completed, the City is going to transition into an education and enforcement program. To avoid costly delays and/or fines please review Bend Code Title 16 and attend this training.

**Alex Zimmerman CPESC, CISEC, CESSWI.** Alex Zimmerman brings over 15 years of large scale construction experience to Erosion and Sediment Control training. From large disturbance, linear, and single family construction to restoration and emergency landslide repair his experiences add to informative trainings on real world compliance issues for construction site operators, inspectors, and designers. Focusing on productive site management and site audits to identify potential problems and more effectively insure regulatory compliance. Awarded the Educational Achievement award for 2009 by the International Erosion Control Association, Alex continues to keep up to date and present the latest information on regulations and compliance challenges.

**IECA:** The International Erosion Control Association (IECA) is a non-profit, member organization that provides education, resource information and business opportunities for professionals in the erosion and sediment control industry. IECA has 2,500 members representing over 30 countries and 22 fields of professional practice.

# Commonly Used Erosion and Sediment Pollution Preventions Measures

## ❑ Construction Access

**Purpose:** A temporary construction entrance is a gravel pad located where vehicles leave a construction site. This rock pad is designed in such a way to allow vehicle tires to slightly sink into the rock. This helps to remove mud and debris from vehicle tires.

**City Standard Drawing: R-27**

### Tips

- Locate Construction Entrance away from existing catch basins
- Limit the number of Access points
- Cover Trucks before they leave the site



## ❑ Sediment Control

**Purpose:** Sediments from construction activity can find their way into the stormwater system through storm sewers, storm grates and storm inlets. This sediment can plug inlets, pipes, dry wells, drill holes, and may cause flooding or impact water quality in the Deschutes River. Sediment fences, wattles and compost filter berms can help capture and remove sediment from construction site runoff.

**City Standard Drawing: E-1**

### Tips

- Install silt fence along lower edges of the project site
- Inspect and maintain sediment controls regularly
- Remove once permanent controls are established



## ❑ Soil Stabilization

**Purpose:** Wind rain and snow combined with the removal of ground cover accelerates the process of erosion. Using hydro-seeding, applying a layer of straw, planting native grasses or installing jute matting can help stabilize soils and prevent sediment from being washed or blown off site.

**City Standard Drawing: E-5 & E-6**

### Tips

- Phase construction operations to limit the amount of un-stabilized soil
- Stabilize disturbed soil as soon as possible after work is completed



## ❑ Inlet Protection

**Purpose:** Storm drain inlet protection measures prevent soil and debris from entering storm drain inlets. These measures are temporary and should be implemented before a site is disturbed. Inlet protection is the last line of defense in protecting the stormwater system from sediment.

**City Standard Drawing: E-2**

### Tips

- Routinely inspect and remove excess sediment regularly
- Place bulk material stockpiles away from catch basins and paved surfaces



## ❑ Good Housekeeping

**Purpose:** Proper storage, maintenance, clean-up and disposal of materials and machinery can prevent pollutants from entering storm drainage facilities.

### Tips

- Properly store paints and chemicals; clean up accidental spills safely and promptly.
- Sweep up sediment or debris tracked onto roadways; put litter in appropriate receptacles.
- Keep machinery properly maintained; use an oil pan when needed; repair leaks promptly.



**CITY OF BEND  
STORMWATER UTILITY**  
575 NE 15 ST  
BEND, OREGON, 97701  
541-317-3000

### Additional Links

**City of Bend Code Title 16**

<http://www.ci.bend.or.us/modules/showdocument.aspx?documentid=6732>

**City of Bend Design Standards**

[www.ci.bend.or.us/modules/showdocument.aspx?documentid=2104](http://www.ci.bend.or.us/modules/showdocument.aspx?documentid=2104)

**Business and Home Best Management Practices**

[www.bendoregon.gov/index.aspx?page=298](http://www.bendoregon.gov/index.aspx?page=298)