

Roadside Environmental Unit



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REU Sections

- Erosion Control and Vegetation Management
 - Soil and Water Engineering
 - Vegetation Management
 - Landscape Design & Development
- Environmental Operations
- Rest Areas
- Field Operations
- Office of Beautification Programs
- Scenic Byways Program



Soil and Water Engineering

- E & SC Design using latest technologies
- Designs are phase oriented to provide the greatest level of environmental protection





Vegetation Management

- Develops programs for establishment and maintenance of all roadside vegetation (turfgrass, groundcover for EC, ornamental plantings, etc)
- Maintenance Programs
 - Wildlife Habitat Areas
 - Recycling
 - Wildflower Program





NorthStar Boomless Head



GPS enabled Controller



CDA Boom



Controlled Droplet Application (CDA)

Landscape Design & Development

- Landscape Plantings
- Rest Area Site Development
- Tree Preservation & Reforestation
- Historic Mitigation
- Bio-Retention Basins (water gardens)
- Special Projects



Rest Areas

- **Oversee planning and design**
 - Renovations
 - New site projects
- **Implementation of Elements**
 - Cisterns
 - Solar hot water
 - Recycled Materials
 - Regional Materials
 - Daylighting
- **Coordinate with Other DOT Units**
 - Create all Maintenance Contracts



Environmental Operations

- 401 / 404 Environmental Compliance
- NPDES Permit Compliance
 - Stormwater BMP Program Management
 - Industrial Facilities
 - Education
- Hazardous Materials Management / Cleanup



Field Operations

- Oversight of E&SC Program
- Plan Reviews
- Involved Early in the Design Phase
- Involved in Research and Data Collection
- Stream/Wetland Restoration Projects
- Power/Machinery
- Special Programs



From Basic EC devices...



Rock Dams

Silt Fence



To Challenging Turbidity Issues...

Sand Media Filter



Turbidity Curtains

Always searching for innovative ideas...



Skimmer

Forebay w/Baffles



Preformed Scour Holes



Stream Restoration and Stabilization



Under Construction

2 years later



Office of Beautification Programs

- Adopt-A-Highway Program
- NCDOT Litter Programs
 - NC Big Sweep
 - Swat-a-Litterbug Program
 - Specialty License Plate
- Sponsor A Highway



Scenic Byways Program

- Selects routes that embody the diverse history, geography, and culture of NC and provide travelers with a safe and interesting alternate route



Visit us at:

www.doh.dot.state.nc.us/operations/dp_chief_eng/roadside/

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