



CASPER | LARAMIE | SARATOGA | **ARVADA** | FT. COLLINS

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[www.2DOTconsulting.com](http://www.2DOTconsulting.com)



## ENVIRONMENTAL SERVICES

*drones • environmental • engineering • water | soil | air • remediation • gis*



## 2DOT'S ENVIRONMENTAL SERVICES:

- Regulatory permitting
- Air quality permitting
- Wetland delineation/404 permitting
- Due diligence – ASTM Standards
- Phase I & II environmental site assessments – ASTM Standards
- Phase I & II ESA reporting – ASTM Standards
- Wildlife & avian surveys
- Pre/post-construction wildlife monitoring
- Remediation & cleanup
- Drone & GIS mapping
- SPCC plans
- Reclamation and Implementation
- Aerial inspections (with drones)
- ROW permitting and siting assessments
- NEPA & FERC permitting and compliance
- Public outreach
- Stormwater management (SWPPP, SWMP, BMPs)
- Fatal Flaw



## ENVIRONMENTAL PLANNING

*2DOT's staff are experts in environmental surveys and are cross-trained in many valuable disciplines that allow staff to perform multiple tasks in one field visit (i.e. a raptor survey and stormwater inspection). This represents 2DOT's dedication to our clients budget, time management, and efficiency.*



## APPROACH

Our approach relies heavily on project goals, budget, and schedule. Every step of the way, we will use our knowledge and technology to identify environmental liabilities and provide solutions. 2DOT's expert senior staff, with over 100 years of combined experience in environmental planning will provide the framework needed for the best-value solutions. Our junior staff are cross-trained and certified in many disciplines so that we can provide multiple options during fieldwork. In one field visit, we can complete a stormwater inspection, spray herbicides/pesticides, or conduct a wetland delineation. This allows better use of our staff, your budget, and increases efficiency.

## Working Relationships With:

- Bureau of Land Management
- Bureau of Reclamation
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- Farm Service Agency
- U.S. Army Corps of Engineers
- Colorado Parks and Wildlife
- Wyoming Game and Fish Department
- Utah Division of Wildlife
- WY, CO, & UT State Historic Preservation Office
- Local and County Governments

## Qualifications/Training:

- 2DOT biologists have over 100 years of combined wildlife experience and all have a minimum of a 4-year degree from an accredited university in the environmental field
- Certified Wildlife Biologists (CWB) from The Wildlife Society
- Expertise in Federal, State, and County Permitting & Regulations
- Section 10(a)(1)(A) USFWS Scientific Collection Permit
- Mexican Spotted Owl Survey Certification
- Yellow-billed Cuckoo Survey Certification
- SafeLand USA Training
- H2S Safety Training
- OSHA Safe Driving Training/Winter Travel
- MSHA New Minor Training
- Preble's Jumping Mouse Trapping

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## STORMWATER MANAGEMENT

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# 2DOT'S STORMWATER MANAGEMENT SERVICES

## Pre-Construction and Engineering

- Stormwater Conveyance Design & Engineering
- Permit Submittals: Municipal, State, and COGCC
- Preparation and Design of SWMP/SWPPP with ESC Maps
- Amendments to Existing Plans

## Construction Monitoring

- Weekly or Bi-weekly and Post-Precipitation Inspections
- BMP Installation, Maintenance, and Removal
- Vegetation Monitoring and Weed Management
- Groundwater Sampling and Reporting

## Post-Construction Reclamation and Maintenance

- Reclamation: Grading, Seeding, Watering
- Final Stabilization Monitoring and Inspections
- Weed Management
- Permit Termination: Municipal, State, and COGCC



## PURPOSE

Stormwater replenishes our aquifers and flows into streams and rivers. Heavy or contaminated runoff can cause stream bank erosion, habitat destruction, infrastructure damage, and downstream flooding. Our stormwater management solutions are meant to mimic natural hydrology and control infiltration into the ground.



## BMPs & CONTROL MEASURES

Temporary and Permanent BMP Installation and Maintenance (Silt Fence, Straw Wattle, Inlet Protection, Rock Check Dams, etc.)

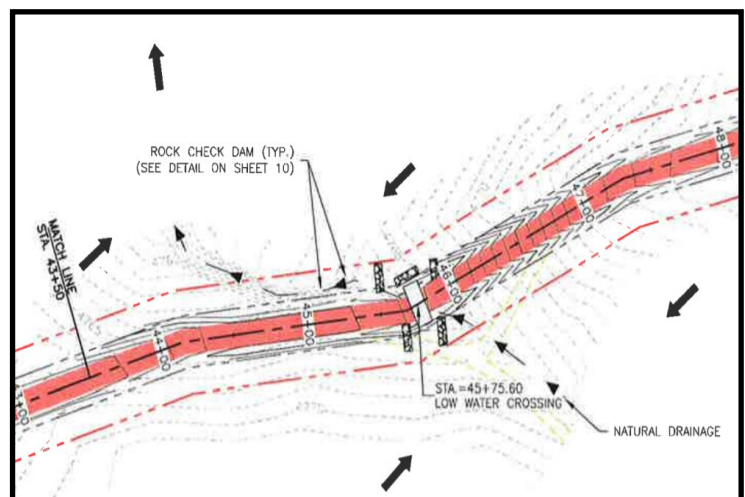
Temporary and Final Stabilization (Erosion Control Blanket, Surface Roughening, Seeding and Straw-Crimping, Hydroseeding, etc.)

## DESIGN

- Engineered stormwater structure and conveyance design (drainage structures, rip-rap)
- BMP selection based on federal, state, and municipal standards
- SWMP/SWPPP: preparation and design including ESC maps
- Stormwater program audits and training
- Regulatory compliance inspections

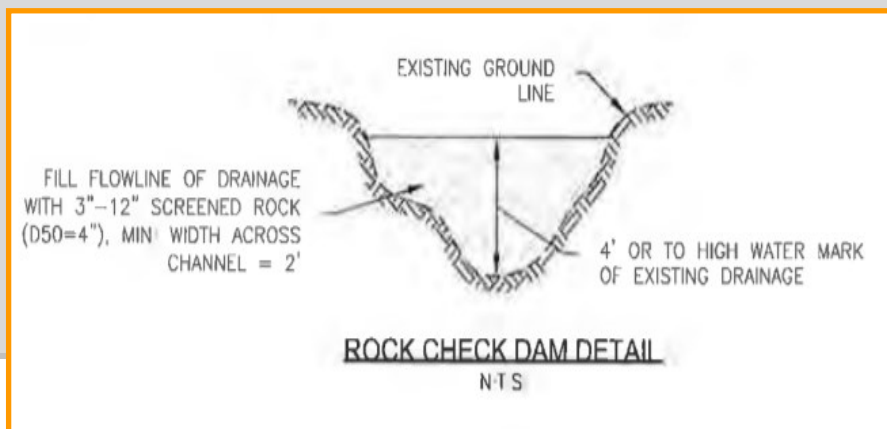
## RESTORATION

- Stream embankment stabilization/restoration
- Landscape and planting plan design
- Seeding and planting



## STORMWATER PROJECT EXPERIENCE:

- Large construction permits
- Municipal, transportation, industrial, and construction stormwater permits
- Commercial and residential development (5 - 500ac)
- Land development and site improvements
- SPCC plans and secondary containment
- Stormwater design/  
grading plans
- Agency coordination
- Stream restoration
- Reclamation/  
remediation



## QUALIFICATIONS:

- Professional Civil Engineer: WY, CO, and UT
- CDOT SWMP Preparer Certification
- CDOT Transportation Erosion Control Supervisor (TECS) Certification
- 40-hour OSHA HAZWOPER Training
- 10-hour OSHA Construction Industry Safety Training
- 8-hour OSHA Site Supervisor Training
- 4-hour OSHA Confined Space Entry Training
- Colorado Association of General Contractors
- Erosion, and Sediment Control Inspector Training
- Secondary Containment for SPCC Plan Training

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