

SCOPE OF WORK

CDOT- REGION 5 ENVIRONMENTAL SUPPORT SERVICES NON-PROJECT SPECIFIC SCOPE OF WORK (SOW)

Region 5 of the Colorado Department of Transportation has developed the following Scope of Work to obtain proposals from qualified consultants able to provide environmental support services on an as-needed basis to meet a wide range of engineering, technical, and project planning needs. It is expected that the consultant provide a project team that can address all of the specialty areas as noted below. It is anticipated that the consultant may be part of a blended team responsible for developing an overall project perspective and strategy. This team may consist of CDOT staff, local agencies, contractors and project stakeholders and will occur at CDOT's discretion.

The consultant should provide a team consisting of environmental professionals with a demonstrated ability to review, prepare and develop National Environmental Policy Act (NEPA) documents and studies, technical resources reports, transportation studies, and develop engineering plans, notes and specifications. A contract manager is needed with demonstrated contract management experience that includes the coordination of sub consultants, knowledge of CDOT procedures for processing task orders and experience with Professional Service contracts. Services will be directly related to the development, and environmental clearance of specific engineering projects.

The selected team shall demonstrate experience and abilities in the preparation of clearly written and well organized documents and reports, conducting environmental field surveys, environmental permit applications, public involvement experience, plan development and other related projects that meet CDOT and FHWA standards, policies and guidelines. The services will include, but are not limited to the following specialty areas:

Based on Region 5 needs, support could focus on tasks related to Categorical Exclusions, wetland delineations and permit acquisition, threatened and endangered species clearances and surveys, water quality, planning, and other needs. A summary of services would include, but is not limited to, the following:

- US 160 Corridor Design support
- 491 Corridor Design support
- US 550 Corridor Design support
- Categorical Exclusions preparation
- Coordination with regulatory agencies and FHWA
- Conduct biological field surveys
- Prepare Biological Assessments and Biological Evaluations.
- Water Depletions support
- Wetland delineation and mapping
- Wetland Finding preparation
- Section 404 permitting
- Develop wetland monitoring reports and mitigation plans;
- Historical evaluations/Section 106
- Section 4(f) support

Scope of Work (January 18, 2012)

- Hazardous waste assessments
- Planning support (e.g. preparing presentations for misc. meetings)
- Noxious weed surveys
- Commitment tracking
- Water quality, design and inspection
- Construction monitoring
- GPS or field survey location of wetlands or other features, as needed
- Prepare reports, as needed
- Attend meetings, as needed

SPECIALTY AREAS:

A. Environmental Services:

- 1) History/ 106 Evaluation
- 2) NEPA Expertise
- 3) Wetland delineation and Section 404 Permitting
- 4) Wildlife/Threatened and Endangered Species (TES) Evaluation
- 5) Noise Analysis and Modeling
- 6) Air Quality and Conformity Evaluations
- 7) Geographic Information Services (GIS)
- 8) Water Quality
- 9) Environmental Oversight for Design/Build Contracts
- 10) Hazardous Waste
- 11) Section 4(f) Evaluation
- 12) Other duties, as directed

B. General Administrative Requirements:

- 1) Attend and provide assistance at meetings
- 2) Prepare materials including spreadsheets, design drawings and graphics, PowerPoint presentations, reports, meeting minutes
- 3) Interpret and discuss detailed engineering plans to a wide range of audiences
- 4) Provide coordination assistance

NECESSARY EXPERTISE AND REQUIREMENTS

A. Environmental Services:

- 1) History/Section 106 Evaluation
 - Provide documentation and report preparation for historical and cultural resources
 - Demonstrated knowledge of CDOT and FHWA policies pertaining to historic resources
 - Expertise with the preparation of studies pertaining to historic resources
 - Working knowledge of Section 106 of National Historic Preservation Act (NHP A) and the State Historic Places Act
 - Demonstrated experience working with the Colorado State Historic Preservation office (SHPO) on transportation projects

Scope of Work (January 18, 2012)

- Familiarity with the Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation (48 CFR 44739)

2) NEPA Expertise:

- Familiarity with NEPA regulations including MAP-21
- Experience with NEPA Document Preparation (i.e., PEL's, CE's, EA's, EIS's and Reevaluations)
- Experience with Public Involvement and techniques for building and gaining consensus on transportation projects
- Familiarity with incorporating Context Sensitive Solutions (CSS) into transportation planning and project development for decision-making purposes
- Provide Environmental document review
- Experience with preparation of administrative records

3) Wetland and Section 404 Permitting Services:

- Demonstrate expertise with conducting wetland delineations, preparing wetland findings, and wetland mitigation plans in accordance with CDOT, FHW A and USACE practices and policies
- Familiarity with current practices and methodologies concerning the development of wetland banking
- Demonstrate ability to prepare U.S. Army Corps of Engineer (USACE) Nationwide and Individual Section 404 Permits for highway projects
- Coordinate wetland and Section 404 issues throughout design and construction
- Develop and review annual monitoring reports for Section 404 permits and make recommendations for remediation and/or implementation requirements, if needed
- Evaluate projects for consistency with Section 404(b) (1) Guidelines with regard to alternative selection
- Understanding of CDOT/COE Section 404 merger agreement

4) Wildlife and Threatened and Endangered Species (TES) Services:

- Knowledge of wildlife biology and applicable federal and state regulations
- Knowledge of the Endangered Species Act (ESA)
- Experience with conducting wildlife field surveys and preparing of Section 7 Evaluations for submittal to the U.S. Fish and Wildlife Service (USF&W)
- Experience addressing Colorado Parks and Wildlife (CPW) species
- Expertise with Biological Assessments and Biological Opinions
- Provide prairie dog management services in accordance with most recent *CDOT's Impacted Black-Tailed Prairie Dog Policy* guidelines for extermination and relocation
- Familiarity with the specific requirements and policies of the federal land management agencies concerning TES and Sensitive Species
- Familiarity with Senate Bill 40 (SB 40) requirements
- Experience and familiarity with current practices and methodologies for development of conservation banks

Scope of Work (January 18, 2012)

5) Traffic Noise Analysis and Modeling

- Familiarity with FHWA noise regulations contained in 23 CFR 772
- Familiarity with traffic Noise Abatement Criteria (NAC)
- Demonstrated familiarity with CDOT and FHWA noise program
- Expertise with noise modeling techniques and methodologies used in the State of Colorado (STAMINA 2.0 and TNM 2.5 or later versions)
- Expertise with conducting noise studies and analyses for highway projects following CDOT Noise Analysis and Abatement Guidelines
- Expertise with gathering, evaluating and assessing highway traffic data for noise analysis
- Knowledge of AutoCAD or Microstation for engineering level design and for planning purposes, design of noise mitigation and alternative analysis

6) Air Quality and Conformity

- Experience with modeling, documentation and report preparation
- Experience with conducting hot spot analysis and modeling for transportation projects (using CAL3QHC, or later model); in accordance with EPA guidance
- Familiarity with the federal Transportation Conformity Regulations
- Ability to qualitatively assess air quality impacts for transportation related studies, reports and documents
- Familiarity with CDOT policies pertaining to air quality

7) Geographic Information Services (GIS)

- Expertise with GIS mapping
- Knowledge of the CDOT mapping program

8) Water Resources

a) Point/Nonpoint Source Pollution Control

- Demonstrated ability to develop and provide technical review of CDOT Stormwater Management Plans (SWMPs)
- Knowledge of Section 402 of the Clean Water Act
- Familiarity with CDOTs Stormwater program
- Provide engineering level design for stormwater features to be implemented on CDOT projects
- Knowledge of the CDOT MS4 Requirements

b) Watershed Management/Coordination

- Provide coordination with state and local officials and watershed association representatives concerning highway related water quality matters
- Attend meetings as needed to provide technical expertise on a wide range of water quality matters
- Provide technical expertise on various water quality matters related to TMDLs, sediment loading, interpretation of water quality data

c) Water Quality Monitoring

- Provide technical expertise to implement and review stream monitoring programs

Scope of Work (January 18, 2012)

- Interpret, review, summarize and make recommendations with regard to water quality data
 - Perform stormwater site inspections per CDOT RECAT and monthly audit criteria
 - Install, repair, remove, and/or replace temporary construction site stormwater BMP's including purchasing materials
- d) Highway Maintenance Activities
- Familiarity with the COOT maintenance program, including the use of deicers, data tracking and BMP maintenance
 - Perform maintenance on permanent BMP's such as water quality ponds, stormwater vaults, and other erosion control and sediment capturing devices to include sediment removal, repairs, and documentation
- 9) Environmental Oversight for Design/Build Contracts
- Familiarity with current practices and policies concerning design/build projects
 - Demonstrate ability to provide adequate personnel (engineering and environmental specialists) on design/build projects from start to finish
- 10) Hazardous Waste
- Ability to conduct Phase I Initial Site Assessments (ISA's)
 - Ability to conduct Phase II Site Investigations (SI's)
 - Knowledge of ASTM standards
 - Knowledge of Underground Storage Tank (UST) closure regulations
 - Knowledge of historic mining, heavy metals remediation and Superfund
 - Ability to develop Environmental Health and Safety and Material Management Plans
- 11) Section 4(f)
- Expertise in the preparation of Section 4(f) Evaluations
 - Familiarity and knowledge for preparing administrative records for Section 4(f) Evaluations and documentation of the process