



GENERIC SCOPE OF WORK BASIC CONTRACT

CONTRACT TYPE

- Specific Rate of Pay**
- Cost Plus Fixed Fee
- Other

SOW DATE:

PROJECT NUMBER: IM 0250A-050/IM025A-043

PROJECT LOCATION: I-25 at Drew Dix Parkway / Dillion Drive M.P. 103-105

PROJECT CODE: 24395/21642

THE COMPLETE SCOPE OF WORK INCLUDES THIS DOCUMENT (ATTACHED TO THE CONTRACT FOR CONSULTANT SERVICES)

SECTION 1	GENERAL SCOPE OF WORK
SECTION 2	GENERAL REQUIREMENTS
SECTION 3	PERSONNEL REQUIREMENTS
SECTION 4	COST PROPOSAL ASSUMPTIONS
APPENDICES	

Comments regarding this scope may be directed to:
CONTRACTS AND MARKET ANALYSIS BRANCH
Engineering Contracts Unit
Marci Gray, Contracting Officer
303-757-9297

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Project Specific Information
Construction Services Scope of Work
I-25 Drew Dix Roundabout/Dillon Frontage Road
CDOT Region 2
Scope Date:

It is intended that services will be performed primarily for the following projects I-25 at Drew Dix Parkway / Dillion Drive (Project Number: IM 025A-050 & IM 025A-043, SA 24395 & SA 21642)

Project Numbers: IM 025A-050 IM 025A-043
Project Codes: SA 24395 SA 21642
CMS ID Number: TBD TBD
Project Location: I-25 at Drew Dix Parkway / Dillion Drive M.P. 103-105
Contract Type: Project Specific, Specific Rate of Pay
Contract Subject: Construction Management, Inspection, Materials Testing Services and Public Relations

The Contract Administrator for this Contract will be:

Laurel Jones, Resident Engineer
Region 2 – South Program
5615 Wills Boulevard Suite A
Pueblo, CO 81008
(719) 251-3499
laurel.jones@state.co.us

Active Day-to-Day administration and monitoring of this contract will be delegated to the assigned Project Manager as follows:

Timothy McGhghy, Civil Engineer Project Manager II
Region 2 – South Program
5615 Wills Boulevard Suite A
Pueblo, CO 81008
(719) 251-6970
timothy.mcghghy@state.co.us

1.0 General Scope of Work

The scope of work and associated cost estimate is for providing construction administration support services for the referenced project. The scope of work will be for:

- 1 full-time Consultant Assistant Project Engineer (APE)
- 2 full-time Consultant Construction Inspector
- 1.5 full-time Consultant Materials Testing Technician
- 1 full-time Public Information Manager

1.1 Project Description and Location

The primary objective of this project is to complete the east I-25 frontage road and construct a roundabout at the west frontage road and Dillon Drive intersection. The project is located on I-25 at exit 104.

1.2 Work Duration

The time period for the work described in this scope of work will last approximately fifteen months (15) months including the duration of the construction plus pre and post construction activities as required. It is anticipated that the duration of work covered by this scope of work is approximately December 2022 (or when Notice-to-Proceed is issued) through March 2024.

1.3 Definitions (also see Appendix B)

CDOT Resident Engineer – The CDOT Resident Engineer is responsible to the Region Program Engineer for the quality and successful completion of a transportation project. The Resident Engineer authorizes interim and final payments and all changes to Contracts for all Consultants and Contractors.

CDOT Region Materials Engineer – The CDOT Region Materials Engineer (RME) assists the Resident Engineer on this project with materials related issues including concrete, asphalt, soils and steel.

Consultant – The individual, firm or corporation contracting with CDOT to perform services as described in this Contract.

Consultant Professional Engineer – The Consultant's Professional Engineer is in responsible charge of services performed as described in this contract. The Consultant's Professional Engineer must be licensed in the State of Colorado.

Consultant Assistant Project Engineer – The Consultant employee who performs construction inspection and other project-related services under the responsible charge of the Consultant Professional Engineer, and at the direction of the CDOT Project Engineer and CDOT Resident Engineer.

Public Information Manager – A full-time Public Information Manager (PIM) will be the responsible charge for all activities associated with public information services.

Contractor – The individual, firm or corporation contracting with CDOT to construct a transportation project.

2.0 General Requirements

2.1 Authorization to Proceed

Work shall not commence until the written Notice to Proceed is received by the consultant, and shall be completed in the time specified.

2.2 Routine Billing & Reporting

The Consultant shall provide the following on a regular basis:

- Monthly billing formats, suitable to the Project Engineer, for all contract activities performed by the Consultant.
- Monthly billings should include the contract status.
- Weekly time cards for consultant personnel. The Project Engineer prior to billing must sign these time cards.
- Supporting documentation for all direct costs.
- Weekly approval of mileage for vehicles.

2.3 Status of Contract

The Consultant shall monitor the fiscal status of the contract, and advise the Resident Engineer of any potential need for supplementing their contract or negotiating an additional task order. Failure to monitor status and provide timely notification may result in the discontinuation of the Consultant's services on the project until a supplemental agreement can be implemented and executed.

2.4 Labor, Materials, Vehicles and Equipment

The Consultant shall furnish all personnel, materials, equipment and transportation required to perform the work. Consultant personnel shall have appropriate vehicles (equipped with flashing amber beacon) cellular phones, computers and miscellaneous equipment and supplies (printers, calculators, manuals, office supplies, safety equipment, DMI, etc.) required to perform the work.

Field Office will be provided by Construction Contract pay items. Personnel qualifications, staffing level, and number and types of vehicles shall be subject to the approval of the Resident Engineer. Each consultant staff shall be supplied with a state of the art computer and loaded with the most current version of MS Office including Microsoft Project, Primavera,

SiteManager, and/or QA/QC program if applicable. The Consultant shall have a digital camera available to staff at all times and document the project accordingly submitting flash drives with relevant photos to the Resident Engineer on a regular basis. At least one Consultant vehicle shall be equipped with a DMI (distance measuring instrument) to facilitate inspection and measurement of materials placed on the project.

The Consultant shall assign personnel for the duration of the Construction Contract unless otherwise approved by the CDOT Resident Engineer.

2.5 Engineer's Certification

The CDOT Resident Engineer shall be the final authority regarding acceptance of work not conforming to the plans and specifications.

2.6 Project Meetings

The Consultant and CDOT project personnel shall meet to coordinate and schedule the required work prior to active construction. The Consultant shall complete all work in accordance with the approved schedule or as approved by the Project Manager.

The Consultant personnel shall be present at all project meetings as required and as directed by the Project Manager.

2.7 Post-Construction Activities

The Consultant shall assist in preparing and submitting redline drawings that have been revised to reflect actual as-constructed details as recorded throughout the construction of the project, wage and payroll certification and other closeout activities. Work may consist of finals preparation, and helping the Resident Engineer with preparation of upcoming project(s). Such work may be plan review, attend project meetings, Form 859 development, and project showings.

2.8 Project Standards

Inspection and documentation shall be in accordance with the latest versions of the CDOT Construction Manual, Field Materials Manual, CDOT Laboratory Manual of Test Procedures, CDOT Inspector's Checklist, Standard Specifications for Road and Bridge Construction, the Supplemental Specifications, M & S Standards, and the plans and specifications currently in use when the construction project is advertised or revised under advertisement.

References to “the specifications” shall include all applicable CDOT Standard Specifications for Road and Bridge Construction including Supplemental Specifications, Project Standard Revisions and Project Plans and Specifications.

Proposed work procedures shall be coordinated with the Project Engineer prior to the start of work.

2.9 Documentation

The Consultant shall provide all correspondence and applicable CDOT forms to the CDOT Project Engineer for review and signature.

The Consultant personnel shall be capable of preparing CMO’s, justifications for CMO’s and MCR’s; price justification (force account analysis); review of MHT’s, construction quantity calculations required for this type of project; inspection reports; daily diaries; Site Manager; review of 205’s; and other construction administration documentation required per CDOT construction manual.

Each of the Consultant’s personnel shall maintain a daily diary for each day they perform work on the project. They shall use CDOT’s Automated 103a – Project Diary unless otherwise approved by the Resident Engineer. The contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work. Editorial comments are not to be incorporated in the diaries or on any written correspondence applicable to the project. A copy of the daily diary shall be given to the CDOT Project Engineer within one working day of its date.

The Consultant’s personnel shall be thoroughly familiar with CDOT forms and documentation requirements.

3.0 Personnel Requirements

Personnel qualifications and staffing levels for the project shall be subject to the approval of the Project Engineer. CDOT will reserve the right to review the resume and interview any new proposed staff to the project. CDOT may not approve personnel to be added to the project as determined from either the resume or interview.

Personnel provided by the Consultant who do not meet all of the specified requirements, or who fail to perform their work in an acceptable manner, shall be removed from the project when determined and directed by the Resident Engineer.

The Consultant shall also provide any other services as requested by the Project Engineer.

Back-up Consultant resources shall be available in case of loss of staff, sickness, or vacations or as required for the project.

3.1 Consultant Assistant Project Engineer

The Consultant APE shall work under the direction of a Colorado Licensed Professional Engineer (PE) and be experienced with road and bridge construction and have documented experience with CDOT procedures including construction schedule review, contract modifications preparation, force account analysis, and shall be proficient with SiteManager. The Consultant APE shall be familiar with road and bridge construction and it is preferred they have extensive documented experience with CDOT procedures including, structures, water quality, phasing, utilities, roadway paving and documentation.

The CDOT Project Engineer will be responsible for the day to day activities and duties associated with CDOT contract administration in coordination with the CDOT Resident Engineer and as supported by the Consultant APE. These responsibilities and duties include supervision of project staff, verbal and written correspondence with the Prime and Sub-Contractors, inspection of materials and methods of construction to verify compliance with CDOT and contract specifications, preparing monthly pay estimates, reviewing and approving Methods of Handling Traffic (MHT's), prepare project change orders and minor contract revisions(including justification letters), monitoring the project schedule and financial status, reviewing certified payrolls(in B2G and LCPtracker), resolving material and traffic control issues, and coordination/contract with local entities and business with respect to construction activities.

The Consultant APE shall be familiar with road and bridge construction and have documented experience with CDOT procedures including roadway, utility, and structure inspection and

associated documentation, be proficient with SiteManager and shall have all required CDOT Inspector Certifications.

The Consultant APE will be responsible for day to day activities as assigned by the CDOT Project Engineer. These responsibilities may include documentation and inspection of construction activities, preparing payments for items of work, preparing pay estimates in SiteManager, supervision and documentation of time and material of work, and preparation of daily diaries documenting contractor activities and relevant observations, and Davis-Bacon wage review and certification.

The individual shall be able to inspect and document all work performed and produced by the CDOT construction contractor on the project. The service shall include inspection and documentation of requirements set forth in the Standard Specifications for Road and Bridge Construction, the M & S Standards and references there from. This work is to be accomplished in accordance with the CDOT Construction Manual. The individual shall meet all the requirements as outlined in CDOT Policy Memo 25, Construction Inspector Qualification Program including Traffic Control Supervisor training. The Consultant APE shall be familiar with SiteManager Construction Management System to enter CMO's, Time Counts, Daily Work Reports, and other areas as needed.

Inspection work shall conform to the CDOT Construction Manual and the Inspector Checklist. Each of the Consultant's field inspectors shall maintain a daily diary for each day the Consultant performs work on the project. They shall use CDOT's Survey 123 – Project Diary, or other form approved by the Resident Engineer. The contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work. Editorial comments are not to be incorporated in the diaries or any written correspondence applicable to the project. A copy of the daily shall become a part of the permanent project record.

Responsibilities may include but are not limited to the following:

1. Preparing and transmitting updates of construction activities to the CDOT's Public Information Officer.
2. Monitoring and documenting contractor payroll compliance.
3. Participation in weekly progress meetings with contractor, subs, utilities and other interested parties.
4. Securing project documentation from the contractor.
5. Anticipating project problems and directing solutions to the CDOT Project Engineer.



6. Reviewing drawings and data submitted by the construction contractor and suppliers for conformance with the specifications. Inform and obtain concurrence as needed from the Project Engineer and keep relevant documentation for project records.
7. Maintaining accurate notes reflecting actual construction details to be used in preparation of as-constructed plans.
8. Communicating with adjacent landowners as required towards resolving issues that arise during construction.
9. Review and approve the Contractor's Method of Handling Traffic if delegated by the CDOT Project Engineer.
10. Monitoring compliance with and taking appropriate action to preserve safety on the project for all workers and traveling public in accordance with Method of Handling Traffic (MHT) and the Manual of Uniform Traffic Control Devices (MUTCD).
11. Initial follow up, and final inspections of work in progress including interim and final measurements.
12. Promptly notifying contractors and CDOT Project Engineer of non-compliance with the contract plans and specifications.
13. Performances of special tests, investigations, or monitoring which are required to fulfill the intent of the CDOT inspection program.
14. Preparation of inspection documentation for development of progress payments for the contractor in accordance with prescribed procedures.
15. Submittal of standard documentation reports no later than the following working day.
16. Preparation of routine correspondence to the contractor, CDOT Staff, local agencies, etc.
17. Providing liaison and communication to contractor field crews.
18. Assist the CDOT Project Engineer with preparation of final "As Constructed" plans.
19. Assist in preparing punch lists of uncompleted work, non-conformance reports, and deficiency notices.
20. Assist in preparing responses to contractors' and suppliers' requests for information, submittals, change notices, claims, and correspondence.
21. Prepare the project's Finals Package and submit to CDOT's Final Engineer within 45 days of the project's acceptance letter (including materials finals). Continue to work with the Finals Engineer to adjust or revise finals documentation until it is determined to be acceptable.
22. Ensure all materials testing documentation is entered into LIMS software system.

3.2 Consultant Construction Inspector

The Consultant Construction Inspector shall be able to inspect and document all work performed and produced by the CDOT construction contractor on the project. The service shall include inspection and documentation of requirements set forth in the Standard Specifications for Road and Bridge Construction, the M & S Standards and references there from. This work is to be accomplished in accordance with the CDOT Construction Manual. The individual shall meet all the requirements as

outlined in CDOT Policy Memo 25, Construction Inspector Qualification Program including Traffic Control Supervisor training. The Consultant shall be familiar with SiteManager Construction Management System to enter CMO's, Time Counts, Daily Work Reports, and other areas if needed.

Inspection work shall conform to the CDOT Construction Manual and the Inspector Checklist. Each of the Consultant's field inspectors shall maintain a daily diary for each day the Consultant performs work on the project. They shall use CDOT's Form 103 or automated 103a – Project Diary, or other form approved by the Resident Engineer. The Contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work. Editorial comments are not to be incorporated in the diaries or on any written correspondence applicable to the project. A copy of the diary shall become a part of the permanent project record.

Structure Specialty – This inspector should have 3 years of inspection experience on major structures. They shall be familiar with bridge and structure plans and terminology. They shall have inspection experience with deep foundations and retaining walls.

3.3 Consultant Materials Testing Technician

The Consultant Materials Testing Technician shall sample, test, inspect and document all materials generated on the project unless otherwise notified by the CDOT Project Manager. This includes but is not limited to: materials delivered to the project that are listed in the Summary of Approximate Quantities in accordance with the schedule in the Field Materials Manual; materials that may be added to the project through contract modification orders; and altered material quantities whether increased or decreased. The testing technician and CDOT's Project Manager shall review project quantities on a weekly basis to ensure that sufficient tests have been performed for the material placed to date. The consultant shall also provide any other related testing services requested by the CDOT Project Manager.

Testing of materials that are specifically designated to be pre-inspected or pre-tested shall remain the responsibility of CDOT. The consultant shall document and obtain samples of any and all materials to be transported to CDOT Central Laboratory that are required to be tested by CDOT regardless of pre-inspection or pre-testing responsibilities. The items and test frequencies of Department tested materials shall be in accordance with the Materials Manual under Schedule (Owner Acceptance), Central Laboratory.

The materials testing technician shall be under the direction of, and shall be reviewed by the Project Manager, and CDOT testing personnel. A consultant supervisor shall be available to review work, resolve problems, and make decisions in a timely manner as requested by the CDOT Project Manager, and must be experienced and competent in road and bridge construction, materials testing, and inspections.

The materials testing technician assigned to the project on a full-time basis and have a minimum of two years of experience in each specialty field (soils, aggregates, asphalt paving, and concrete) that is being



tested, and shall have the following qualifications: WAQTC certification, nuclear safety certified as issued by the Colorado Department of Health, ACI certified as a concrete Field Testing Technician Grade 1, ACI certified as concrete Strength Testing Technician Grade 1, CAPA certification LabCAT Levels A & B and Traffic Control Supervisor training. The individuals shall meet all the requirements as outlined in CDOT Policy Memo 25, Construction Inspector Qualification Program. Nuclear Gauges must be calibrated using the Department's standard blocks. The materials testing technicians shall be thoroughly familiar with CDOT forms and documentation requirements and have had LIMS training in site-manager with the ability to enter all materials documentation into site-manager LIMS program.

The equipment shall be furnished by the consultant tester for each segment of the project in sufficient quantity and in good working order to ensure accurate performance of all work required in a timely manner. Equipment for this project may include, but not limited to following;

1. Nuclear Moisture/Density Gauge.
2. Sieves for aggregates and soils gradation.
3. Electronic scales, if not furnished by the contractor.
4. AC gauge, Rice equipment and hand tools for HMA Testing.
5. Sample containers including, but not limited to: quart sized asphalt cement cans with lids, 3-gallon metal containers and lids for HMA samples, sample bags, 5-gallon buckets with rubber seal lids for moisture samples, and buckets for sampling concrete.
6. Proctor equipment for soil curves and 1-point tests.
7. Atterberg equipment.
8. Sample drying equipment.
9. Miscellaneous pans, tools, and equipment for performing the required soils, concrete, and asphalt field tests.
10. Concrete cylinder molds which conform to AASHTO requirements.
11. Tape measure and various hand tools.
12. High/low and recording thermometers.
13. Various office supplies and calculators.
14. Computer and CDOT approved programs.
15. CDOT M & S Standards, Construction Manual, and Inspector's Checklist.
16. Concrete testing equipment: air meter, slump cone, unit weight scale, hand tools and beam molds.

3.4 Consultant Public Information Management

Public Information Manager (PIM). The Consultant shall designate a PIM who shall be responsible for all activities associated with Public Information Management for this project. The Consultant shall submit the name, contact information, and resume qualifications of the PIM and the Backup PIM for approval by the Engineer. The RCM will also review the PIM's and Backup PIM's resume. The PIM shall be identified, approved, and able to perform all requirements in this Section at least 14 days before the start of work. The PIM shall have a minimum of five years of professional experience in public/media relations, marketing, or other

related field and good verbal and written communication skills. Administrative/business office experience is not considered experience in a related field.

(a) *Activities of the PIM.* From the Notice to Proceed of the Construction Contract through the Final Acceptance of the project, the PIM shall be responsible for the following:

(1) *Project Onboarding Checklist.* The PIM or Backup PIM shall complete and update the Project Onboarding Checklist (<https://form.jotform.com/71167524405150>) on a monthly basis or as requested by the Engineer. The checklist will assist the PIM and CDOT with tracking required activities and deliverables.

(2) *On-Call.* The PIM shall be available or on-call each day there is work on the project and shall be available upon the Engineer's request outside of normal working hours.

(3) *Public Information Office.* The Consultant shall establish a public information office equipped with a telephone, a local telephone number with voicemail, a computer, and an email address. The public information office may be located within the project office, off-site, or within the PIM's office. The telephone line will be the Project Hotline and shall be included on the Project Information signs. The voicemail greeting shall be updated at least weekly. The greeting shall include the project's completion date, forthcoming activities for the update period, and allow the caller to leave a voice message. The PIM shall answer calls, check voicemail and email messages, and respond to messages throughout each day that construction operations are in effect. The PIM, and when necessary the Engineer, shall respond to all inquiries with a phone call, a voice message, or an email within one work day. The PIM shall document the name, contact information, either a phone number or email address, and the action taken. Within two days of receiving the message, the PIM or Backup PIM shall enter message details and follow-up action into Dialog.

(4) *Lane Closure Reporting.*

(i) *Dialog Project Account.* At the Pre-construction Conference, the PIM shall submit a "Request for Dialog Account" to the Engineer. The Engineer will provide the Consultant a login and password for the Dialog Customer Service Program and the Lane Closures and Updates Program. At least once per week, the PIM or Backup PIM shall be responsible for entering project information into the Dialog Project Account.



- (ii) *Weekly Lane Closures.* The PIM shall enter the planned weekly lane closures and updates into the Dialog Program by Thursday at 12:00 P.M. for the upcoming Sunday through Saturday. The information will be included on the website, www.cotrip.org, and a media report. The PIM shall develop Traffic Advisories that include lane closure and update information. The PIM or Backup PIM shall notify the Engineer and the RCM one week in advance of all planned “no work” periods. The Engineer will approve the Lane Closure and Updates by each Friday at 3:00 P.M.. Each Monday by 12:00 P.M., the PIM shall review www.cotrip.org and verify that the lane closure and update information is accurate. If corrections are necessary, the PIM shall coordinate those corrections to www.cotrip.org with the Engineer.

 - (iii) *Real-Time Lane Closure Changes.* The PIM or Backup PIM shall notify the Engineer at least 24 hours in advance for changes to an approved Lane Closure. The Engineer will notify the PIM when the Dialog Program record is available for changes. After changes are made, the PIM shall notify the Engineer that the changes are ready for review and approval.
- (5) *Public Information Collateral.* The PIM shall develop a variety of Public Information Collateral to share project information with the public as necessary for major project milestones such as long-term closures or impactful construction activities. Collateral includes the following:
- (i) *Photographs and Video Recordings.* The PIM shall take photographs and video recordings on regular intervals (Monthly) and submit them to the Engineer and the Region Communications Manager. A cell phone camera is permitted. Photographs and video recordings may capture traffic control, paving, slope repair, erosion control, bridge deck, and rail work activities. Photographs and video recordings may also include other key areas of work as identified by the Engineer and will be used in Public Information Collateral. The Contractor shall submit a minimum of two digital photographs or video recordings each month to the Engineer. Each photograph and video recording shall include project number, project code, date, time, location and station or milepost, and name of person taking the picture or video recording.

 - (ii) *Web Page Updates.* The PIM shall work with CDOT to develop the latest project information for the internet web page content. The PIM shall supply information for the web page using the CDOT web page template. When applicable, the updates shall contain all appropriate web page links to and from other sites. The PIM shall provide updated information at least weekly. CDOT will update the web page.

- (iii) *Project Fliers.* The PIM shall develop Project Fliers using the CDOT template and shall include CDOT's logo, and at the Engineer's discretion may include the project logo. The PIM shall contact the Engineer for copies of the templates. At least 14 days prior to delivering Project Fliers, the PIM shall prepare and submit a draft of the flier to the Engineer. The Engineer's review will not exceed seven days. Fliers shall be approved by the Engineer before distribution. Fliers shall be delivered in person, by mail, and by email. The list of recipients shall be developed via <http://uspseverydoordirectmail.com>, the use of a mailing list from county GIS mapping, or other approved method. An email containing the flier shall be sent to stakeholders identified in the Stakeholder List. The RCM will post the Project Fliers on social media.

This project requires Project Fliers at the following milestones:

1. Initial Project Flier
2. Major Traffic Switches

Initial Project Flier. At least four days prior to the start of work, the PIM shall deliver one approved flier per property and tenant owner within ½ mile of the project limits. The Initial Project Flier shall provide the project start and end dates, project location, description of work, traffic impacts, scheduled work hours and work days, the Project Hotline, email address, web address, project map, photo of project area, and a construction safety message as defined by CDOT.

- (iv) *Media Relations.* The PIM shall develop media releases using the CDOT template. The releases shall include detour maps or other visual aids. The PIM shall develop media releases based on major construction milestones such as project start, lane shifts, a traffic switch, closures, and on other occasions as directed by CDOT. At least 14 days prior to the construction milestone, the PIM shall submit a draft to the Engineer for approval. The Engineer's review will not exceed seven days. The media release shall be approved by the Engineer before distribution. CDOT will distribute media releases.

At least 14 days prior to the start of work, the PIM shall submit for approval by the Engineer a media release summarizing the project scope, construction phasing, potential construction activities that impact traffic, the project end date, and a summary of project benefits.

CDOT will address all media inquiries and media requests. The PIM or Backup PIM shall immediately notify the Engineer of any on-site situations involving the media.

When the media contacts the PIM or Consultant staff, the PIM shall provide the RCM's contact information.

- (v) *Maps and Graphics.* The PIM shall develop maps, detour maps, and graphics for use in Public Information Collateral.

- (6) *Public Information Plan.* The PIM shall submit a Public Information Plan (PIP) within ten days of the Pre-construction Conference for approval by the Engineer. The PIP shall be specific to the project. The Plan shall include the public information strategies for community and business relations, government affairs and media relations, the stakeholder list, identification of public information issues, proposed outreach, and approach to crisis communications using the Public Information Collateral. The PIP shall be updated as necessary and as directed by the Engineer.

- (7) *Project Meetings.* The PIM shall participate in the weekly project meetings. The PIM shall discuss communication issues, and provide a status on the items in this specification.

- (8) *Language Assistance for LEP Persons.* CDOT is required to provide access to Limited English Proficient (LEP) persons. LEP persons are individuals for whom English is not their primary language and who have a limited ability to read, write, speak, or understand English. Examples of language assistance include translation of meeting notices and interpretation services at meetings. The PIM shall work with CDOT to provide interpretation services upon request by an LEP person. When the project is located in a community that has greater than five percent LEP persons, Public Information Collateral shall be translated for those individuals. The PIM shall document all measures taken to communicate with LEP persons and record all requests for language assistance.

- (9) *Outreach Events.* The Consultant shall provide appropriate technical staff and they shall participate in all Outreach Events.
 - (i) *Public Meetings.* The PIM may host in-person and/or telephone town hall public meetings, as directed by the Engineer. The Public Meeting shall occur at a convenient location to the project and shall accommodate the anticipated number of attendees. The PIM shall publicize the meeting through multiple means using the Public Information Collateral. The Engineer will approve the method and content of the advertisement. The PIM shall develop and submit to the Engineer for approval



all visual displays for the meeting. The Engineer’s review of the advertisement method, content, and displays shall not exceed 10 days.

(ii) *Stakeholder Meetings.* The PIM and the Consultant shall participate with CDOT on all meetings requested by the Engineer.

(iii) *Tours and Special Events.* The PIM shall coordinate media, business, and government official tours of the construction areas and events. The PIM and the Consultant shall participate in tours and events.

(b) *Response Protocol to CDOT and the Public.* The PIM shall follow Table 626-1 in responding to correspondence from stakeholders and the public.

Table 626-1
RESPONSE PROTOCOL

TYPE OF COMMUNICATION	TIMING OF RESPONSE
Project Hotline calls and voice messages	Answer calls and check messages throughout each work day. Respond the same day or within 24 hours. Enter details into Dialog within two days.
Email messages	Respond the same day. For high volume situations, respond within two work days. Enter details into Dialog within two days.
Calls from CDOT Staff	Respond as soon as possible, and within 24 hours.
Web page Inquiries	Respond the same day. For high volume situations, respond within two work days.
Public Meeting Inquiries	Respond within one week of the meeting.

(c) *Deliverable Protocol.* The PIM shall conform to the Project Onboarding Checklist or Region Public Information Management Communication Checklist available from the Engineer and RCM.

- (d) *Public Information Management Contact Sheet.* The PIM shall complete and update a Public Information Management (PIM) Contact Sheet with the names and contact information of the individuals pertinent to Public Information for approval by the Engineer. At a minimum the Contact Sheet will include the Resident Engineer, the Project Engineer, Region Communications Manager, CDOT Website Administrator, CDOT Dialog Administrator, CDOT Colorado Traffic Management Center, Contractor Superintendent, PIM, and Traffic Control Supervisor. The contact sheet shall include the Region 2 Joint Operations Center. The PIP shall include the PIM Contact Sheet.
- (e) *Stakeholder List.* The PIM shall submit a Stakeholder List as part of the PIP. The Stakeholder List shall include stakeholder's information including stakeholder group, contact name, telephone number, email, and notes on communication needs for the project and project impacts.



4.0 Cost Proposal Assumptions

The attached compensation proposal is **SPECIFIC RATE OF PAY**.

A supplement to this task order may be necessary in the event the level of effort required increases beyond that described, including but not limited to extended construction duration and/or additional construction shifts.

Direct costs will be expended as required for the proper performance of the work, and in accordance with CDOT requirements and approvals. Work may be required night and/or day, weekends, holidays, and/or on a split shift basis when requested by the Resident Engineer. Workweeks may be in excess of or less than the standard 40-hour week.

Man-hour estimates will be based on **50 hours** maximum per week.

The Scope of Work is based on the assumption that some nights will be worked and will not need to be covered by Consultant staff (night work defined as over 50 hours/week or between 6:00 p.m. and 6:00 a.m. – each work night will be assumed as 10 hours). The attached cost proposal for construction services is based upon several assumptions and a specific organization throughout construction. Since construction management tasks extend over a long duration of time and tasks will overlap greatly throughout any construction day, the general approach to the fee is based on number of full time employees on the project as opposed to duration of each task. As a result, the budget defined will be considered the scope of work. The CDOT Resident Engineer will be notified of any work outside the budget and considered out-of-scope, and will not proceed without formal approval by the CDOT Resident Engineer.

4.1 Per Diem

Staff considered being “Traveling Away from Home” as defined per Fiscal Rule 5-1, Section 2.24 will be reimbursed at the applicable per diem rate per the Fiscal Rule 5-1, Section 6.11 to cover costs of meals and incidental expenses while traveling.

Should the consultant personnel choose to procure a short term home rental for the duration of the project, CDOT shall be notified of this intent prior to securing a lease. Additionally, per Fiscal Rule 5-1, Section 11.11, the Department may negotiate a special per diem rate when a traveler is furnishing their own lodging and meals. Please notify CDOT immediately if this will be the case, so that a special per diem rate can be negotiated.

4.2 Travel

All travel and per diem expenses shall be in accordance with CDOT procedures and policies and state fiscal rules.



Staff assigned full or part time to the project and considered “Traveling Away from Home” per Fiscal Rule 5-1; Section 2.24 will be reimbursed for actual lodging costs per Fiscal Rule 5-1, Section 6.11. Reimbursement of lodging costs will follow Fiscal Rule 5-1, Section 9.

CDOT will reimburse Consultant for time and mileage of personnel “Traveling Away from Home ” who are full or part time on-site personnel for one roundtrip per week at a maximum of 4 hours per roundtrip and maximum of 200 miles.

Mileage and time for staff not assigned to the project or “Traveling Away from Home” will be reimbursed for actual time and miles from when the employee leaves home base until return to home base minus 1 (one) hour.

A summary of these situations is provided below in accordance with the CDOT Travel Reimbursement Guidance for Consultant Contracts and Task Orders.

CDOT is Paying for Housing		CDOT is not Paying for Housing	
Type of Travel Expense	Reimbursement	Type of Travel Expense	Reimbursement
Lodging	Actual	Lodging	NA
Meals	Per Diem Rate (State Rate) for actual days worked at project site	Meals	Per Diem Rate (State Rate) for actual days worked at project site
Incidental Expenses	Per Diem Rate	Incidental Expenses	Per Diem Rate
Rental Vehicles	Actual	Rental Vehicles	Actual
Mileage for Company Vehicles	Current Mileage Rate for 2WD vehicles only. 4WD vehicle is allowed when specified in scope of work.	Mileage for Company Vehicles	Current Mileage Rate for 2WD vehicles only. 4WD vehicle is allowed when specified in scope of work.
1) Travel from Main Office to Project Site	Not paid	1) Travel from Main Office to Project Site	Actual Mileage over 35 mile radius
2) Travel from Temporary Residence to Project Site	Not paid	2) Travel from Permanent Residence to Project Site	Actual mileage over 35 mile radius
3) Project related travel (Design or Construction) from or within Project site	Design Projects: Actual project related mileage. Construction Projects: Estimated average daily mileage as stated in project task order.	3) Project related travel from or within Project site	Design Projects: Actual project related mileage. Construction Projects: Estimated average daily mileage as stated in project task order.
4) Personal travel – including travel from	Not paid	4) Personal travel	Not paid



temporary housing to project site			
5) Personal travel to place of permanent residence	Not paid	5) Personal travel to place of permanent residence	NA
6) Travel time from place of permanent residence or Office to Temporary Residence or Project site	One round trip per week at a maximum of 4 hours per round trip and a maximum of 200 miles mileage	6) Travel Time to Project Site	Actual time from when employee leaves home base until return to home base minus one (1) hour
7) Airfare	Actual	7) Airfare	Actual
8) Tips	Included in Per Diem Rate	8) Tips	Included in Per Diem Rate
9) Other Allowable Travel Expenses	Actual	9) Other Allowable Travel Expenses	Actual



APPENDIX A

REFERENCES

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) PUBLICATIONS (using latest approved versions):

- A. A Policy on Design Standards-Interstate System
- B. A Policy on Geometric Design of Highways and Streets
- C. Guide for Design of Pavement Structures
- D. Standard Specifications for Highway Bridges
- E. Guide for the Design of High Occupancy Vehicle and Public Transfer Facilities
- F. Guide for the Development of Bicycle Facilities
- G. Standard Specifications for Transportation Materials and Methods of Sampling and Testing – Part 1, Specifications and Part II, Tests
- H. Highway Design and Operational Practices Related to Highway Safety
- I. Roadside Design Guide
- J. Load Resistance Factor Design (LRFD) Specifications

2. COLORADO DEPARTMENT OF TRANSPORTATION PUBLICATIONS (using latest approved versions):

- A. Design Guide (all volumes)
- B. Bridge Design Guide
- C. Bridge Detailing Manual
- D. Bridge Rating Manual
- E. Project Development Manual
- F. Erosion Control and Stormwater Quality Guide
- G. Field Log of Structures
- H. Cost Data Book
- I. CDOT Traffic Analysis and Forecasting Guidelines



- J. Drainage Design Manual
- K. Landscape Architecture Manual
- L. NEPA Manual
- M. Environmental Stewardship Guide
- N. Various CDOT Environmental Resource Guidance (i.e Air Quality, Hazardous Materials, Noise, Visual)
- O. Quality Manual
- P. Survey Manual
- Q. Field Materials Manual
- R. Standard Plans, M & S Standards
- S. Standard Specifications for Road and Bridge Construction and Supplemental Specifications
- T. Item Description and Abbreviations (with code number) compiled by Engineering Estimates and Market Analysis Unit (“Item Book”)
- U. Right-of-Way Manual
- V. The State Highway Access Code
- W. Utility Manual
- X. TMOSS Generic Format
- Y. Field TMOSS Topography Coding
- Z. Topography Modeling Survey System User Manual
- AA. Interactive Graphics System Symbol Table

3. CDOT PROCEDURAL DIRECTIVES (using latest approved versions):

- A. No. 27.1 Social Marketing – Use of Web 2.0 and Similar Applications
- B. No. 31.1 Website Development
- C. No. 400.2 Monitoring Consultant Contracts



- D. No. 501.1 Requirements for Storm Drainage Facilities and Municipal Separate Storm Sewer System Facilities
- E. No. 503.1 Landscaping with CO Native Plant Species and Managing the CO Pollinator Highway
- F. No. 514.1 Field Inspection Review (FIR)
- G. No. 516.1 Final Office Review (FOR)
- H. No. 1050.1 Contracts with Local Agencies for Maintenance of State Highways
- I. No. 1217a Survey Request
- J. No. 1304.1 Right-of-Way Plan Revisions
- K. No. 1305.1 Land Surveys
- L. No. 1601 Interchange Approval Process
- M. No. 1700.1 Certification Acceptance (CA) Procedures for Location and Design Approval
- N. No. 1700.3 Plans, Specifications and Estimates (PS&E) and Authorization to Advertise for Bids under Certifications Acceptance (CA)
- O. No. 1700.5 Local Entity/State Contracts and Local Entity/Consultant Contracts and Local Entity/R.R. Contracts under C.A
- P. No. 1700.6 Railroad/Highway Contracts (Under Certification Acceptance)
- Q. No. 1905.1 Preparation of Plans and Specifications for Structures prepared by Staff Bridge Branch

4. FEDERAL PUBLICATIONS (using latest approved versions):

- A. Manual on Uniform Traffic Control Devices
- B. Highway Capacity Manual
- C. Urban Transportation Operations Training – Design of Urban Streets, Student Workbook
- D. Reference Guide Outline – Specifications for Aerial Surveys and Mapping by Photogrammetric Methods for Highways



- E. Executive Order 12898
- F. Executive Order 11988 & 13690 FHWA Federal-Aid Policy Guide
- G. FHWA NHI Hydraulic Circular (HEC) and Hydraulic Design Series (HDS) Reports
- H. Technical Advisory T6640.8A
- I. U.S. Department of Transportation Order 5610.1E
- J. Geometric Geodetic Accuracy Standards and Specifications for Using GPS Relative Positioning Techniques
- K. ADAAG Americans With Disabilities Act Accessibility Guidelines
- L. 23 CFR 771, the FHWA Technical Advisory T6640.8A
- M. 44 CFR 59-72, standards of the National Flood Insurance Program (NFIP)
- N. U.S. Army Corps of Engineers Wetlands Delineation Manual of 1987 and appropriate regional supplements

5. AREA:

- A. Manual for Railway Engineering
- B. Urban Storm Drainage Criteria Manual (MHFD, formerly UDFCD)
- C. Any appropriate local agencies references as appropriate



APPENDIX B

DEFINITIONS

Note: For other definitions and terms, refer to Section 101 of the CDOT Standard Specifications for Road and Bridge Construction and the CDOT Design Guide.

AASHTO	American Association of State Highway & Transportation Officials
ADT	Average two-way 24-hour Traffic in Number of Vehicles
AREA	American Railway Engineering Association
ATSSA	American Traffic Safety Services Association
AT&SF	Atchison, Topeka & Santa Fe Railway Company
ADAAG	Americans with Disabilities Accessibility Act Guidelines
BAMS	Bid Analysis and Management Systems
BFE	Base Flood Elevation
BLM	Bureau of Land Management
BNRR	Burlington Northern Railroad
CA	Contract Administrator – The CDOT Manager responsible for the satisfactory completion of the contract by the consultant
CAP	CDOT’s Action Plan
CBC	Concrete Box Culvert
CDOT	Colorado Department of Transportation
CDOT/PM	Colorado Department of Transportation Project Manager – The CDOT Engineer responsible for the day to day direction and CDOT Consultant coordination of the design effort (as defined in Section 2 of this document)
CDOT/STR	Colorado Department of Transportation Structure Reviewer – The CDOT Engineer responsible for reviewing and coordinating major structural design
CDPHE	Colorado Department of Public Health and Environment
CEQ	Council on Environmental Quality
COG	Council of Governments
COGO	Coordinate Geometry Output
CONSULTANT	Consultant for the project
CONTRACT ADMINISTRATOR	Typically, a Region Engineer or Branch Head. The CDOT employee directly responsible for the satisfactory completion of the contract by the Consultant. The contract administration is usually delegated to a CDOT Project Manager (as defined in Section 2 of this document).
C/PM	Consultant Project Manager – The Consultant Engineer responsible for combining the various inputs in the process of completing the project plans and managing the Consultant design effort.
CWCB	Colorado Water Conservation Board



DDM	Drainage Design Manual
DEIS	Draft Environmental Impact Statement
DHV	Future Design Hourly Volume (two-way unless specified otherwise)
DRCOG	Denver Regional Council of Governments
D&RGW	Denver & Rio Grande Western Railroad
EA	Environmental Assessment
EIS	Environmental Impact Statement
ESAL	Equivalent Single Axle Load
ESE	Economic, Social and Environmental
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FHPG	Federal Aid Highway Policy Guide
FHWA	Federal Highway Administration
FIPI	Finding In Public Interest
FIR	Field Inspection Review
FONSI	Finding of No Significant Impact
FOR	Final Office Review
GIS	Geographic Information Systems
GPS	Global Positioning System
LA	Professional Landscape Architect registered in Colorado
MAJOR STRUCTURES	Bridges and culverts with a total clear span length greater than twenty feet. This length is measured along the centerline of roadway for bridges and culverts, from abutment face to abutment face. Retaining structures are measured along the horizontal distance along the top of the wall. Structures with exposed heights at any section over five feet and total lengths greater than a hundred feet as well as overhead structures including (bridge signs, cantilevers and butterflies extending over traffic) are also considered major structures.
MHFD	Mile High Flood District (formerly UDFCD)
MPO	Metropolitan Planning Organization (i.e. Denver Regional Council of Governments, Pikes Peak Area Council of Governments, Grand Junction MPO, Pueblo MPO, and North Front Range Council of Governments).
MS4	Municipal Separate Storm Sewer System
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NGS	National Geodetic Survey
NICET	National Institute for Certification in Technology
NOAA	National Oceanic and Atmospheric Administration
PAPER SIZES	See Computer-Aided Drafting Manual(CDOT); Table 6-13 and Table 8-1
PE	Professional Engineer registered in Colorado
PM	Program Manager
PLS	Professional Land Surveyor registered in Colorado
PRT	Project Review Team
PS&E	Plans, Specifications and Estimate



PROJECT	The work defined by this scope
PWQ CM	Permanent Water Quality Control Measure
ROR	Region Office Review
ROW	Right-of-Way: A general term denoting land, property, or interest therein, usually in a strip acquired for or devoted to a highway
ROWPR	Right-of-Way Plan Review
RTD	Regional Transportation Director
T/E	Threatened and/or Endangered Species
SFHA	Special Flood Hazard Area
SH	State Highway Numbers
TMOSS	Terrain Modeling Survey System
TOPOGRAPHY	In the context of CDOT plans, topography normally refers to existing cultural or manmade details.
USACE	United States Army Corp of Engineers