

SCOPE OF WORK

PROJECT NUMBERS: FSA 2873-233, FSA 2873-234, & FBR 2873-235
PROJECT CODES: 27210, 27211, & 27244
CMS ID NUMBER:
PROJECT LOCATION: US 287 (MP 362.18 to MP 383.88)
CONTRACT TYPE: Program Specific
CONTRACT SUBJECT: Construction Management, Inspection, and Testing
DATE: January 9, 2026

Project Background

US 287 extends from the Colorado-Wyoming border through the foothills, linking several North Front Range communities. The highway features rural, flat, and rolling undivided two-lane sections, with occasional passing lanes in both directions. This project will be executed in two construction phases, primarily aiming to enhance safety on US 287 between Ted's Place and the Wyoming border, with the focus on reducing severe injuries and fatal accidents. Additionally, the project will improve surface conditions and prolong the highway's functional life. These improvements were found to be necessary in a safety study conducted by Stolfus & Associates in 2021, which produced data on crash causes and locations along the highway. This project will include two different construction packages.

Construction Package 1 (CP1) (27210) Anticipated Construction June 2026 to November 2026

- Intersection Improvements
 - Bonner Springs Ranch Road
 - Red Mountain Road
- Snow Closure Gate
- Sign Replacement

Construction Package 2 (CP2) (27211) Anticipated Construction June 2027 to November 2028

- NB Shoulder Widening
- SB Shoulder Widening
- Wildlife Crossing and Fencing
- Resurfacing
- Structures Preventative maintenance
- Sign Replacement

Bridge Enterprise A-15-A (27244) Anticipated Construction Part of Construction Package 2

- Replacement and Removal of A-15-A

1. Administration & General Requirements

A. Administration

The active day-to-day administration and monitoring of this contract is delegated to:

For CDOT: **US 287 Safety Improvements, FSA 2873-233 & FSA 2873-234, FBR 2873-235, 27210, 27211, & 27244**
Erick Romero Ortega
Project Engineer
10601 W. 10th Street, Greeley CO 80634
Phone: (970) 397-1503
E-mail: erick.romeroortega@state.co.us

B. General Requirements

This Scope of Work (SOW) has been carefully reviewed by the Department and reflects a plan of approach based on the known goals. The Consultant's analysis of the project goals, its evaluation of the work elements, and its formulation of the work plan, coupled with its understanding of and sensitivity to the key issues may produce new approaches or modifications to the project's work elements. Therefore, the Final Scope of Work for the project may change in some details to incorporate the Consultant's input. This work is located on US287 from Ted's Place to the Wyoming border in Larimer County located in Region Four of the Colorado Department of Transportation.

The positions described herein are based on anticipated needs. The Department reserves the right to not utilize any of the positions listed if at the time of construction the Department has available resources to staff the project from within and to otherwise determine a different team make up as determined by the Engineer.

2. Definitions

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 Project Engineer - The CDOT employee assigned by the Resident Engineer to be the Chief Engineer's duly authorized representative. The CDOT Project Engineer is in direct charge of the work and is responsible for the administration and satisfactory completion of the project under contract

Consultant Assistant Project Engineer – The Consultant employee of eight (8) years of experience and previous CDOT experience. Will be responsible for performing daily coordination with CDOT Project Engineer and contractor. Consultant Assistant Project Engineer must have experience using PMWeb.

Consultant - The firm or corporation providing personnel under this agreement to perform construction services as outlined herein

Consultant Project Manager - The Consultant employee who administers the Consultant contract with CDOT.

Consultant Inspector - Consultant employee who performs construction inspection services, and other project-related services at the direction of the CDOT Project Engineer

Consultant Inspector/Materials Testing Technician – A consultant employee who performs material testing duties as well as some limited construction inspection duties.

Consultant Materials Testing Technician (MTT) - Consultant employee who performs construction materials testing services, construction inspection, and other project-related services at the direction of the CDOT Project Engineer.

Consultant Office Engineer - Consultant employee who is the project's Chief Clerical Officer. Responsible for communication with the Region Finals Engineer to coordinate project documentation needs for the Project Final and Site Manager requirements under the responsible charge of the CDOT Project Engineer.

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

CDOT Region Materials Engineer – The CDOT Region Materials Engineer (RME) assists the CDOT Resident Engineer and CDOT Project Engineer on this project with materials related issues including earthwork, concrete, asphalt, steel and other materials as required by the project.

3. General Requirements for Personnel, Vehicles, and Equipment

- A. During construction CDOT anticipates utilizing the following personnel to perform the work. The Consultant shall furnish up to approximately:

US 287 Safety Improvements, FSA 2873-233 & FSA 2873-234, FBR 2873-235, 27210 (June 2026 to November 2026), 27211 (April 2027 to November 2028), 27244 (April 2027 to November 2028),

27210 Construction Package 1

- 1 Consultant Asst. Project/Office Engineer
- 1 Consultant Materials Testing Technician
- 1 Consultant Inspector
- 1 Half Time EEO/Civil Rights Specialist

27211 & 27244 Construction Package 2

- 1 Consultant Asst. Project/Office Engineer (The preference would be the same individual from CP1)
- 2 Materials Testing Technician
- 3 Consultant Inspectors
- 1 Half Time EEO/Civil Rights Specialist

- B. All personnel furnished by the Consultant shall have an appropriate vehicle, equipped with flashing amber beacon, all personal protective equipment, and a functional cellular phone in addition to specific equipment needs outlined in the qualifications section for each classification of personal provided by the consultant.
- C. Conditions Applicable to all Consultant Personnel: Overtime / Commute Miles -Overtime hours will be paid by CDOT at the same rate as regular, non-overtime hours. Actual commute miles not to exceed 75 miles will be paid plus all mileage on the project. Travel will not be paid for.
- D. No Per Diem will be paid.
- E. Labor, Materials, Vehicles & Equipment

CDOT will provide a field office and field laboratory Class – 2 and any required traffic control. The Consultant shall provide the following for their personal assigned to the project and as agreed to by the CDOT Project Engineer and the Consultant Assistant Project Engineer each employee will have access to the following:

- A suitable vehicle equipped with at least one (1) flashing, oscillating, or rotating amber beacon that shall be visible a minimum of five hundred (500) feet in normal sunlight.
- Consultant Project Manager's vehicle and all Consultant Inspectors' vehicles shall each be equipped with an electronic distance-measuring device, accurate to within +/- 5 feet per mile.
- A cellular phone.
- Each with a computer with networking capability sufficient for accessing internet email through a project-supplied internet-service provider. Each computer shall be loaded with MS Office software (latest version), including MS Word and MS Excel at a minimum. Computers shall be capable of running current CDOT software, including Asphalt '03, Voids '03, PMWeb, etc. All computers shall be connected or networked to a Consultant-supplied project printer/scanner, as follows:
- Miscellaneous equipment (calculator, office supplies, safety equipment, etc.) required to perform the work (ASTM Certified Work Boots, ANSI Certified Hardhat (Z89.1 stamp and be High Visibility), Safety Glasses (Z87 stamp on the glasses/goggles) and Approved Safety Vest. (Meeting or exceeding ISEA for Class 3), including all applicable manuals.
- Manuals necessary for the completion of assigned tasks, including at a minimum, current editions of: *CDOT Standard Specifications for Road and Bridge Construction*, *CDOT Construction Manual*, *CDOT M& S Standards*, *CDOT Field Materials Manual*
- Additional manuals appropriate to the inspection and testing duties may be required and shall be provided immediately by Consultant upon request by the CDOT Project Engineer.

4. Personnel Qualifications

Personnel qualifications, staffing level, and number and types of vehicles shall be subject to the approval of the Engineer. The Consultant shall assign personnel for the duration of the Contract unless otherwise approved by the Engineer. Employees required to operate vehicles must possess and maintain a valid State of Colorado driver's license. The Consultant Project Manager(s) and Consultant Inspectors permanently assigned to a project shall be competent in road and bridge construction and be thoroughly familiar with CDOT specifications, manuals, forms, and documentation requirements including Site-Manager. The level of qualification provided shall be as requested and approved by the CDOT Project Engineer. The qualifications for the level(s) shall be

commensurate to experience, and are as follows:

- Materials Testing Technician – Two (2) or more years of experience in Materials testing and previous CDOT experience. Familiarity using ATSER.
- Inspector – Two (2) or more years of experience in the Inspection of CDOT Bridge Construction and Highway construction inspection.
- Asst. Project Engineer – Eight (8) or more years of experience in highway construction project management and supervision of consultant inspectors and testers. It is desirable that the Asst. Project Engineer has at least 8 years of experience working on CDOT roadway and bridge projects.
- EEO/Civil Rights Specialist – Two (2) or more years of experience in project Equal Employment Opportunity and Civil Rights compliance. Familiarity with using LCP Tracker and CDOT B2G.

A copy of work experience and proof of Certification and/or License shall be provided to the CDOT Project Engineer before work begins. 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 CDOT Project Engineer.

Personnel qualifications shall be subject to the approval of the CDOT Project Engineer. The Consultant shall assign personnel for the duration of the Contract, unless otherwise directed by the CDOT Project Engineer. Personnel shall have the following qualifications, or as approved by the CDOT Project Engineer:

5. General Work Description

The Consultant Inspectors shall inspect or sample and document specific materials and products or methods utilized in the construction of the project. The Consultant inspector shall also perform construction inspection documentation and such other project-related tasks as may be directed by the CDOT Project Engineer. The Consultant Materials Testing Technician shall perform all testing requirements per CDOT specifications. The Consultant Assistant Project Engineer will assist the CDOT Project Engineer with Project Duties as assigned. All Consultant personnel shall also perform other project-related tasks as may be directed by the CDOT Project Engineer.

6. Work Duration

Anticipated Construction: Construction Package 1 June 2026 to November 2026. Construction Package 2 April 2027 to November 2028.

The time for the work described in this scope of work covers the period from Notice to Proceed to December 2028 or 90 days after Final Acceptance of the construction project, whichever is later. For portions of the project, night work may be required. Work may also be required during the day, on weekends, holidays, and/or on a split-shift basis. Project workweeks may be in excess of or less than the standard 40-hour week.

7. Location of Work

This project is located in Larimer County along US 287 from MP 362 to MP 384

8. Authorization to Proceed

Work shall not commence until the written notice to proceed is received by the Consultant. The work shall be completed in the time specified.

9. Routine Billing & Reporting

The Consultant shall provide the following on a regular basis:

- a) Monthly billing formats, suitable to the Project Engineer, for all contract activities performed by the Consultant.
- b) Monthly billings should include the contract status.
- c) Periodic reports and billings required by CDOT Procedural Directive 400.2.
- d) Weekly time cards for consultant personnel. These timecards will be completed on CDOT Form10 or other format as specified by the Project Engineer. The Project Engineer prior to billing must sign these time cards.
- e) Supporting documentation for all direct costs
- f) Weekly approval of mileage for vehicle

10. Status of Contract

The Consultant shall monitor the status of the contract and advise the CDOT Resident Engineer and Project Engineer of any potential need to supplement the contract. Failure to monitor contract status and provide timely notification may result in discontinuation of the Consultant's services.

11. Project Standards

Work procedures will be coordinated by the CDOT Project Engineer prior to the start of work, and as the work proceeds.

All sampling, testing, inspection and documentation shall be in accordance with the *CDOT Construction Manual* and *CDOT Field Materials Manual*. The applicable *CDOT Field Materials Manual* shall be the one currently in use when the construction project is advertised. If the required method is not described in the *CDOT Field Materials Manual*, the required work shall be completed in accordance with:

- a) *AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing* (as revised and supplemented), or
- b) The *ASTM Standards* and *Tentatives*, in that order.

All construction inspection shall be in accordance with the latest versions of the *CDOT Construction Manual* and applicable *Inspector's Checklist*, *Standard Specifications for Road and Bridge Construction*, applicable *M & S Standards*, and the plans and specifications in use when the construction project is advertised or revised under advertisement.

12. Documentation

Each of the Consultant's project personnel shall maintain a daily diary for each day they perform work on the project. They shall use CDOT Form 103, Project Diary, or a form approved by the CDOT Project 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. Each Consultant Inspector shall give a copy of his/her daily diary to the CDOT Project Engineer within one working day of its date.

Test results and sample submittals transmitted to CDOT's Region or Central Laboratory shall be recorded on appropriate CDOT Forms. The Consultant Inspector may use CDOT worksheets or worksheets approved by the CDOT Project Engineer. CDOT Forms and worksheets are available through the CDOT Project Engineer.

The Consultant Inspectors shall furnish the CDOT Project Engineer with original copies of all worksheets and test results on a daily basis. The CDOT Project Engineer shall be informed immediately of any non-specification material.

The Consultant Inspectors shall provide all correspondence and applicable CDOT forms to the CDOT Project Engineer or his authorized representative for review and signature.

13. Submittal of Final Documentation:

Final documentation shall be submitted to the CDOT Project Engineer within 30 working days after completion of all work. Failure to submit final documentation as required will result in withholding of Consultant payments.

14. Project Personal Requirements/Qualifications

A. Consultant Materials Testing Technician Requirements

1. Project Standards

All sampling, testing, inspection, and documentation shall be in accordance with the Colorado Department of Transportation (CDOT) Construction Manual and Field Materials Manual. The applicable CDOT Manual shall be the one currently in use when the construction project is advertised.

If the required method is not described in the CDOT Field Materials Manual, the required work shall be completed in accordance with:

- a) AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing (as revised and supplemented), or
- b) The ASTM Standards and Tentatives, in this order.

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

2. General Work Description

The Consultant MTT (Materials Testing Technician) shall sample, test, and document all materials incorporated into the project. This includes materials delivered to the project that are listed in the Summary of Approximate Quantities or referred to in the Design/Build Plans and Specifications. The number of tests required shall be in accordance with the Schedule in the Field Materials Manual. Additional quantities may be added by Contract Modification Order, or plan approximate quantities may be increased or decreased. The MTT, the Consultant Project Manager, and CDOT's Project Engineer will review project quantities on a weekly basis to ensure that sufficient tests have been performed for all material placed to date. The consultant shall also provide any other project-related services requested by the CDOT Project Engineer.

Testing of materials that are specifically designated to be pre-inspected or pre-tested by this or any other Department of Transportation will remain the responsibility of CDOT. The MTT shall document and transport samples of any and all materials to the CDOT Region or Central Laboratory that are required to be tested by CDOT, regardless of pre-inspection or pre-testing responsibilities. The items and test frequencies of CDOT tested materials shall be in accordance with the column titled "Central Laboratory" in the Schedule in the Field Materials Manual.

3. Additional Labor, Materials, Vehicles & Equipment Required:

The Consultant shall furnish the Consultant Materials Testing Technician with the following:

- A computer with networking capability sufficient for accessing internet email through a project-supplied internet-service provider. This computer shall be loaded with MS Office software, including MS Word and MS Excel at a minimum. This computer shall be capable of running current CDOT software, including Asphalt '03, Voids '03, PMWeb, etc. This computer shall be connected or networked to the Consultant-supplied main project printer/scanner described above, or shall be provided with a separate stand-alone printer.
- Miscellaneous equipment (calculator, office supplies, safety equipment, etc.) required to perform the work (ASTM Certified Work Boots, ANSI Certified Hardhat (Z89.1 stamp and be High Visibility), Safety Glasses (Z87 stamp on the glasses/goggles) and Approved Safety Vest. (Meeting or exceeding ISEA for Class 3) including all applicable manuals.
- CDOT will provide a Class II field laboratory and any required traffic control.

The following equipment shall be furnished along with the MTT for each project in sufficient quantity and in good working order (with current calibration) to ensure accurate performance of all work required in a timely manner:

- Nuclear Asphalt-Content Gauge;
- Nuclear Moisture/Density Gauge; (Calibrated according to CDOT requirements)
- Concrete air meter, slump cone, and other concrete testing equipment;
- Sieves for aggregates and soil gradations, including a full set of Half Height Sieves;
- Electronic scales;
- Asphalt & A/C sample containers and small tools;
- Proctor equipment for soil curves and one point tests;
- Atterburg, Rice value, and Sand Equivalent equipment;
- Sample drying equipment;
- Concrete cylinder molds which meet AASHTO requirements except that paper molds shall not be used, and plastic molds shall not be reused;
- Miscellaneous equipment for performing the required soils, asphalt and concrete tests.

4. Personnel Qualifications

Personnel qualifications, staffing level, and number and types of vehicles shall be subject to the approval of the Engineer. The MTT shall be thoroughly familiar with CDOT specification, manuals, forms, and documentation requirements. The MTT shall be permanently assigned to a project for the duration of the project and shall have the following qualifications:

- A degree in Engineering from a four year curriculum school or a *National Institute for Certification in Engineering Technology (NICET*)* Level II Certification in Construction Materials Testing and Inspection for the types of work being performed, e.g. aggregates, asphalt, concrete, and soils.

- The MTT performing concrete tests shall be certified by *The American Concrete Institute (ACI)*. Field and Strength.
- The MTT performing hot bituminous pavement tests shall be Level II, A&B certified by *The Colorado Asphalt Technician Certification Program (LabCAT)*.
- WAQTC, Soils Certification/ Inspection.
- The MTT shall be thoroughly familiar with CDOT specification, manuals, forms, and documentation requirements.

* Or equivalent as agreed to by the CDOT Project Engineer.

A copy of work experience and proof of Certification, Degree, and/or License shall be provided to the CDOT Project Engineer before work begins. 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 CDOT Project Engineer.

5. Documentation

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 Form 103a - Project Diary unless otherwise directed by the Engineer. The contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work, and sketches as needed for clarification and documentation. 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 available to the CDOT Project Engineer at the end of each workday.

Test results and sample submittals transmitted to CDOT's Region or Central Laboratory shall be recorded on appropriate CDOT Forms. The MTT may use CDOT worksheets or worksheets approved by the CDOT Project Engineer. CDOT Forms and worksheets are available through the CDOT Project Engineer.

The MTT shall furnish the CDOT Project Engineer with original copies of all worksheets and test results on a daily basis. The MTT shall also keep the CDOT Form 626 up to date at all times and provide copies of this form to the CDOT Project Engineer within 12 hours. The CDOT Project Engineer shall be informed immediately of any non-specification material. At the discretion of the CDOT Project Engineer, the MTT may also be required to provide the CDOT Form 626 to the contractor within 12 hours for any non-specification material.

The MTT shall provide all correspondence and applicable CDOT forms to the CDOT Project Engineer or his authorized representative for review and signature.

6. Assurance Sampling and Testing

The MTT shall coordinate the schedule of the Independent Assurance Tests (IAT) for the project with the Region Materials Section in accordance with the CDOT Form 379. Advance notice of 48 hours is required for proper coordination.

7. Submittal of Final Documentation

Final documentation shall be submitted to the CDOT Project Engineer within 30 working

days after completion of all work. A completed CDOT Form 250 shall be submitted to the CDOT Project Engineer 10 days after the consultant has been notified of final quantities. Failure to submit final documentation as required will result in withholding of consultant payments. *Final Documentation work will be completed under a supplemental task order and is not to be completed in task order number one.*

B. Consultant Inspector Requirements

1. Project Standards

All construction inspection shall be in accordance with the Colorado Department of Transportation's Construction Manual, Field Materials Manual, Standard Specifications for Road & Bridge Construction, Project Standard Provisions, Project Special Provisions, and the plans and specifications in use when the project is advertised. All Consultant construction inspection activities shall be as authorized by the Engineer. For the purposes of this document, construction inspection shall be known as "the work" and references to "the specifications" shall include all applicable CDOT Standard Specifications for Road and Bridge Construction as amended by Project Standard Provisions, Project Special Provisions, and project plans and specifications.

2. General Work Description

The Consultant Project Manager and Consultant Project Inspectors shall provide support to the CDOT project staff through assignment of personnel to assist with project management and inspection responsibilities. Inspection responsibilities include:

Assist the CDOT Project Engineer in the following Construction activities:

- Prepare inspection documentation for development of progress payments for the contractor in accordance with prescribed procedures;
- Submit daily diary at the end of the working day;
- Submit payment-documentation reports (Form 266's) at the end of the working day;
- Prepare periodic reports and billings required by CDOT Procedural Directive 400.2;
- Monitor contractor payroll compliance;
- Participate in weekly progress meetings with contractor, subcontractors, utilities and other interested parties;
- Secure project documentation from the contractor;
- Anticipate project problems and propose solutions to CDOT Project Engineer;
- Review drawings and data submitted by the construction contractor and suppliers for conformance with the intent of the specifications;
- Obtain concurrence as needed from the CDOT Project Engineer and keep relative documentation for project records;
- Maintain accurate notes reflecting actual construction details to be used in preparation of as-constructed plans;
- Communicate with adjacent landowners as required to resolve issues that arise due to construction;
- Monitor compliance with and take appropriate action to preserve safety on the project for all workers and traveling public in accordance with Method of Handling Traffic (MHT);
- Perform initial, follow-up, and final inspections of work in progress including interim and final measurements;
- Notify contractors and CDOT Project Engineer of non-compliance with the contract plans and specifications;

- Perform special tests, investigations, or monitoring to fulfill the intent of the CDOT inspection program;
- Aid in the preparation of correspondence to the contractor, CDOT Staff, local agencies, etc.;
- Provide liaison and communication to contractor field crews;
- Prepare final "As-Constructed" plans upon project completion;
- Prepare punch lists of uncompleted work, non-conformance reports, and deficiency notices;
- Prepare responses to contractors' and suppliers' requests for information, submittals, change notices, claims, and correspondence;
- Prepare and transmit updates of construction activities to the CDOT Public Information Office;
- Deliver material samples to designated laboratories or locations;
- Perform miscellaneous project-related duties as requested by the CDOT Project Engineer.

3. Personnel Qualifications

Personnel qualifications, staffing level, and number and types of vehicles shall be subject to the approval of the Engineer. The Consultant shall assign personnel for the duration of the Contract unless otherwise approved by the Engineer. Employees required to operate vehicles must possess and maintain a valid State of Colorado driver's license. The Consultant Project Manager(s) and Consultant Inspectors permanently assigned to a project shall be competent in road and bridge construction and be thoroughly familiar with CDOT specifications, manuals, forms, and documentation requirements including PMWeb. The qualifications for the level(s) shall be commensurate to experience, and are as follows:

The Consultant Inspectors shall either have a *National Institute for Certification in Engineering Technology (NICET*)* Certification Level III in Highway Construction or have an Engineer-In-Training (EIT) certification from the State of Colorado, unless otherwise approved by CDOT.

A copy of work experience and proof of Certification and/or License shall be provided to the CDOT Project Engineer before work begins. 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 CDOT Project Engineer.

* Or equivalent as agreed to by the CDOT Project Engineer.

4. Documentation

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 Form 103a - Project Diary unless otherwise directed by the Engineer. The contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work, and sketches as needed for clarification and documentation. 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 available to the CDOT Project Engineer at the end of each workday.

C. Consultant Assistant Project Engineer Requirements

1. Project Standards

All construction inspection shall be in accordance with the Colorado Department of Transportation's Construction Manual, Field Materials Manual, Standard Specifications for Road & Bridge Construction, Project Standard Provisions, Project Special Provisions, and the plans and specifications in use when the project is advertised. All Consultant construction inspection activities shall be as authorized by the Engineer. For the purposes of this document, construction inspection shall be known as "the work" and references to "the specifications" shall include all applicable CDOT Standard Specifications for Road and Bridge Construction as amended by Project Standard Provisions, Project Special Provisions, and project plans and specifications.

2. General Work Description

The Consultant Project Manager and Consultant Project Inspectors shall provide support to the CDOT project staff through assignment of personnel to assist with project management and inspection responsibilities. Inspection responsibilities include:

Assist the CDOT Project Engineer in the following Construction activities:

- Manage day to day activities and work assignments of consultant project staff as agreed by the CDOT Project Engineer.
- Report project status, needs and issues to CDOT Project Engineer daily.
- Implement project document management plan/system in accordance with relevant CDOT manuals.
- Oversee project document management plan/system compliance.
- Assign contractor RFI's to Office Engineers for coordination with the designer or CDOT Specialty Units as required.
- Prepare inspection documentation for development of progress payments for the contractor in accordance with prescribed procedures;
- Submit daily diary at the end of the working day;
- Submit payment-documentation reports (Form 266's) at the end of the working day;
- Prepare periodic reports and billings required by CDOT Procedural Directive 400.2;
- Monitor contractor payroll compliance;
- Participate in weekly progress meetings with contractor, subcontractors, utilities and other interested parties;
- Secure project documentation from the contractor;
- Anticipate project problems and propose solutions to CDOT Project Engineer;
- Review drawings and data submitted by the construction contractor and suppliers for conformance with the intent of the specifications;
- Obtain concurrence as needed from the CDOT Project Engineer and keep relative documentation for project records;
- Maintain accurate notes reflecting actual construction details to be used in preparation of as-constructed plans;
- Communicate with adjacent landowners as required to resolve issues that arise due to construction;
- Monitor compliance with and take appropriate action to preserve safety on the project for all workers and traveling public in accordance with Method of Handling Traffic (MHT);
- Perform initial, follow-up, and final inspections of work in progress including interim and final measurements;

- Notify contractors and CDOT Project Engineer of non-compliance with the contract plans and specifications;
- Perform special tests, investigations, or monitoring to fulfill the intent of the CDOT inspection program;
- Aid in the preparation of correspondence to the contractor, CDOT Staff, local agencies, etc.;
- Provide liaison and communication to contractor field crews;
- Prepare final "As-Constructed" plans upon project completion;
- Prepare punch lists of uncompleted work, non-conformance reports, and deficiency notices;
- Prepare responses to contractors' and suppliers' requests for information, submittals, change notices, claims, and correspondence;
- Prepare and transmit updates of construction activities to the CDOT Public Information Office;
- Prepare and transmit updates of construction activities to the Flood Recovery Office (FRO);
- Deliver material samples to designated laboratories or locations;
- Perform miscellaneous project-related duties as requested by the CDOT Project Engineer.

3. Personnel Qualifications

Personnel qualifications, staffing level, and number and types of vehicles shall be subject to the approval of the Engineer. The Consultant shall assign personnel for the duration of the Contract unless otherwise approved by the Engineer. Employees required to operate vehicles must possess and maintain a valid State of Colorado driver's license. The Consultant Project Manager(s) and Consultant Inspectors permanently assigned to a project shall be competent in road and bridge construction and be thoroughly familiar with CDOT specifications, manuals, forms, and documentation requirements including PMWeb. The level of qualification provided shall be as requested and approved by the CDOT Resident Engineer.

A copy of work experience and proof of Certification and/or License shall be provided to the CDOT Project Engineer before work begins. 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 CDOT Project Engineer.

4. Documentation

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 Form 103a - Project Diary unless otherwise directed by the Engineer. The contents of the diary shall be brief and accurate statements of progress and conditions encountered during the prosecution of the work, and sketches as needed for clarification and documentation. 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 available to the CDOT Project Engineer at the end of each workday.

D. Additional Construction Inspection and Materials Testing Requirements:

In addition to the qualifications, requirements set forth above, the following certifications will also be required*:

Class/Certification	Consultant Assistant Project Engineer	Consultant Inspector	Consultant Inspector's Aide	Consultant Materials Testing Technician
Basic Highway Math	X *	X	X	X
Basic Construction Surveying	X *	X	X	X
Basic Highway Plan Reading	X *	X	X	X
Storm water Management and Erosion Control	X	X		
CCA Traffic Control Supervisor	X	X		
Concrete Transportation Construction Inspection	X	X		
SPECIALTY CERTIFICATIONS				
NICET** Level IV in Highway Construction				
NICET** Level III in Highway Construction				
NICET** Level II in Construction Materials Testing & Inspection				
Colorado Asphalt Technician Certification LabCAT (Level C includes Volumetrics)		Level A		Level A,B,C
Asphalt Paving Inspection LabCAT Level I		X		X
WAQTC Soils Certification		X		X
ACI Field Testing Grade I (including: casting concrete cylinders)				X
ACI Field Strength Testing Grade I, <u>or</u> : ACI Lab Testing				X

Technician Level I (including: breaking concrete beams and cylinders)				
--	--	--	--	--

* Not required if the Consultant Project Manager or Assistant Project Manager is a licensed Professional Engineer.

** Or equivalent as agreed to by the CDOT Project Engineer.

Each Consultant Inspector shall be thoroughly familiar with CDOT specifications, manuals, forms, and documentation requirements. Consultant personnel who do not meet these qualifications, or who fail to perform their work in an acceptable manner, shall be removed from the project upon request by the CDOT Project Engineer.