

Scope of Work **Addendum 1 - 10/26/2023**

Colorado Department of Transportation
Colorado Transportation Investment Office

Central 70 Owner Oversight during the Operating Period

The Contract Administrator for this Task Order will be:

John Gregory
CTIO Major Projects Manager
Colorado Transportation Investment Office
2829 West Howard Place
Denver, Colorado 80204
Office: (303) 809-0658

Active day-to-day administration and monitoring of this contract will be delegated to the following CDOT employee:

John Gregory
CTIO Major Projects Manager
Colorado Transportation Investment Office
2829 West Howard Place
Denver, Colorado 80204
Office: (303) 809-0658

I. General Scope of Work

Project Background

Central 70 is a Design-Build-Finance-Operate-Maintain (DBFOM) Project. The Project consisted of reconstructing a 10-mile stretch of the I-70 corridor, adding one new express lane in each direction, removing the aging 50-year-old viaduct, lowering the interstate between Brighton and Colorado boulevards, and placing a four-acre cover over a portion of the lowered interstate. The Project widened I-70 from I-270 to Chambers Road and restriped I-70 from I-25 to Brighton Boulevard to accommodate the new express lane.

The Developer began construction of the Project in 2018 and achieved Substantial Completion in February 2023, which began the Operating Period. Final Acceptance was reached in July 2023.

CDOT desires to contract a Consultant to develop and implement an oversight program that comprehensively assesses, documents, tracks, and reports Developer compliance with Project Agreement requirements during the C70 Operating Period. Owner's oversight will begin in June

2024. The Consultant will be responsible for conducting regular audits of all Developer O&M work and Renewal work.

Oversight Program

The Consultant shall develop an oversight program that ensures all Developer O&M work and Renewal work meets the quality, level of service, and timelines detailed in the PA. The Consultant will work as an extension of CDOT/CTIO staff by leading the day-to-day oversight operations team and will report the project status to the CDOT/CTIO Project Manager weekly. The team shall perform regular audits to determine if the Developer is performing work in accordance with Schedule 11 appendix A-2 (Exhibit A) and the approved O&M plans (Exhibit B). The audits will include but are not limited to the following work components:

- Pavement (Roadway, Ramps, Access Roads, and Other Paved Areas)
- Drainage Systems
- Structures
- Roadway Markings
- Guard Rails, Barriers, Impact Attenuators
- Signs
- Traffic Signals
- Lighting
- Fences and Walls
- Landscaping and Aesthetics
- Earthwork and Embankments
- Graffiti
- Incident Response
- Snow and Ice Removal
- Courtesy Patrol
- Sweep and Cleaning
- Cover Top and Cover MEP System
- ITS and ETC Facilities
- Maintenance of Traffic (MOT)

The Consultant will be responsible for assisting with the resolution of audits that result in a Nonconformance Notice (NCN) as well as closeout of Developer Nonconformance Reports and Corrective Actions. The Consultant will also assist CDOT/CTIO in drafting non-compliance events (NCE's) and recommend deduction assessments as detailed in Schedule 6 (Exhibit C) of the PA. The Consultant will attend regular meetings and interface the Developer and the Developers O&M contractor.

The Consultant shall provide project controls through Aconex to distribute and track all project submittals and correspondence required per the PA. The Consultants Organizational chart shall name a Projects Controls Lead with Aconex Experience. The CDOT/CTIO preference is that the project controls lead is a shared role with one of the roles defined in the Personnel Requirements section. The Consultant will also assist CDOT/CTIO with enforcing and auditing the Developer's compliance with Schedule 15 (Exhibit D) requirements within the Central 70 Project Agreement.

II. Personnel Requirements:

~~The Consultant shall provide a resume for each member of the Oversight Team.~~ The Consultant shall designate which Work components each member is qualified to audit. The resumes Project Team Section of the Proposal should clearly describe the individual qualifications that meet or exceed the minimum requirements (if applicable). CDOT desires to have a qualified and experienced oversight staff. In the event that a team member is replaced during the contract term, with two weeks' notice, the Consultant shall submit a resume of the new team member for approval by the CDOT/CTIO Project Manager.

O&M Project Manager

CDOT requires that the O&M Project Manager has Construction Management experience on State Highway projects. The O&M Project Manager's major duties and responsibilities shall include:

- Overseeing the day-to-day oversight team and reporting the project status to the CDOT/CTIO PM weekly.
- Attend regular O&M meetings and serve as the lead role for CDOT/CTIO interests.
- Ensure all developer O&M work and Renewal work meets the quality, level of service, and timelines detailed in the PA (specifically schedules 6, 11, & 24). Closeout Developer Nonconformance Reports and Corrective Actions.
- Assist CDOT/CTIO in drafting NCE's and recommend deduction assessments (Schedule 6).
- Conduct reviews and provide recommendations/improvements on the overall project administration, Renewal work and O&M work plans.
- Review design and construction plans for compliance with CDOT standards and specifications. Direct the planning and completion of a risk-based oversight program that comprehensively assesses, documents, tracks and reports Developer compliance with Project Agreement requirements during the C70 Operating Period

The O&M Project Manager shall meet the minimum qualifications:

- Licensed Colorado PE.
- 5 Years of Construction Management experience overseeing contractor work quality, inspection and testing in accordance with CDOT Standards and Specifications, Environmental and Civil Rights compliance.
- Experience must include experience on a CDOT construction project as the project engineer, discipline lead or lead oversight of tunnel MEP system construction. Experience must also include managing a project team of 4 or more people.
- Experience negotiating contract change orders and negotiating cost (Schedule 24, Exhibit E).
- Experience reviewing and approving traffic control plans.
- Experience with CDOT design project delivery
- Experience with Operation and Maintenance of Tunnel MEP Systems and NTIS is preferred.

This position is expected to be full time with a 30-40 hour per week commitment.

O&M Oversight and Project Controls Lead

The O&M Oversight and Project Controls Lead responsibilities shall include:

- Perform field and office audits to ensure the Developer is performing O&M work and Renewal work in compliance with all PA requirements, specifically Schedule 11 appendix A-2 and the approved O&M plans.
- Audit the Developers Maintenance Management Information System records to ensure routine inspections and repairs of the Cover systems and all other C70 assets are performed on time.
- Audit the Developer's spare parts facility and supply yard.
- Verify the weekly lane closure report and audit Traffic Control setup complies with the approved MHT. Document any issues or Non-Permitted Operating Period Closures and report to them the O&M Project Manager.
- Routinely drive the projects limits with a focus on worker and public safety, including during inclement weather events.
- Provide recommendations for closeout of Developer Nonconformance Reports and Corrective Actions.
- Use Aconex to manage, distribute and track all project submittals and correspondence required per Project Agreement.
- Maintain accurate notes and photos of O&M work and Renewal work.

The O&M Oversight and Project Controls Lead shall meet the minimum requirements:

- 5 years' experience auditing or inspecting contractor work for compliance with CDOT Standards and Specifications.
- Specific experience inspecting the installation of guardrail, placement of concrete and asphalt, and inspection of traffic control (TCS Certification).
- Experience clearly documenting and reporting observations.
- Experience with Snow and Ice removal operations on high volume highways, including managing plow routes and tracking level of service achievement.
- Experience with Operation and Maintenance of Tunnel MEP Systems (NTIS is preferred)

This position is expected to be full time with a 40 hour per week commitment.

O&M Oversight and Project Controls Auditor

The O&M Oversight and Project Controls team shall have the same duties as the O&M Oversight Lead but are primarily responsible for supporting the O&M Oversight Lead and providing flexibility for the nighttime, daytime, and time off.

The O&M Oversight and Project Controls team shall meet the minimum requirements:

- 3 years' experience auditing or inspecting contractor work for compliance with CDOT Standards and Specifications.
- Specific experience inspecting the installation of guardrail, placement of concrete and asphalt, and inspection of traffic control (TCS Certification).
- Experience clearly documenting and reporting observations.

This position is expected to be full time with a 40 hour per week commitment.

O&M Environmental Manager

The O&M Environmental Manager's major duties and responsibilities shall include:

- Perform regular audits verifying compliance with Schedule 10 (Exhibit F) Sections 14.10 and 14.11 and report to CDOT/CTIO on the progress towards Landscape Acceptance and through the Landscape Warranty period. Coordinate the transfer of Cover Top Landscaping and Enhance Landscaping to Denver Parks and Recreation in accordance with Project Agreement and applicable IGAs.
- Provide annual review and recommend updates as needed to the Developers Environmental Compliance Work Plan. For routine O&M work, provide assistance with assessing Developer compliance with PA requirements (specifically Schedule 17) as needed.
- After Landscape Acceptance monitor, audit vegetation growth/establishment and report to CDOT/CTIO.
- Audit the Developers maintenance, Sand and Mag Chloride facilities for compliance with the State and EPA regulations.
- Engaged during renewal work, provide plan spec review, provide environmental compliance audits/advisement during construction of renewal work.

The O&M Environmental Manager shall meet the minimum requirements:

- 5 years' experience with CDOT landscape establishment oversight.
- 5 years' experience with noxious weed identification and management.
- Experience with NEPA, and CDOT Form 128 environmental clearance processes.
- Experience with environmental requirements for deicing chemical storage and handling.

This position is expected to be a part time position, 8 hours per week during routine O&M work, up to 20 hours per week during renewal work.

O&M Civil Rights Manager

The O&M Civil Rights Manager will assist CDOT staff with enforcing and auditing the Developer's compliance with Schedule 15 (Exhibit D) requirements within the Central 70 Project Agreement.

The O&M Civil Rights Manager shall meet the minimum requirements:

- 3 years' experience related to CDOT Civil Rights Compliance Oversight.
- Experience shall include DBE and ESB commitment tracking, labor classification and reporting, wage determination and reporting, prompt payment verification/issue resolution.
- Experience with the LCPTracker and B2GNow software applications.

This position is expected to be a part time position, 8 hours per week during routine O&M, up to 20 hours per week during renewal work.

Cover Systems Expert

The Cover Systems Expert responsibilities shall include:

- Provide technical expertise and advisement to the CDOT/CTIO O&M team related to the MEP cover systems. Assist in assessing the Developer's compliance with Schedule 10, Section 12 of the PA.
- Provide annual reviews of the TOMIE and other O&M management plans.

The Cover Systems Expert shall meet the minimum qualifications:

- Colorado Licensed PE.
- 5 years' experience in design and/or construction of industrial Mechanical, Plumbing and Electrical systems. Including fire suppression systems, jet fans, pump stations and automated monitoring systems.

This position is expected to be on call/as needed and must be able to respond to the project within 24 hours. This role is not required to be an independent person.

III. Work Location, Equipment, Vehicles and Expenses

The Consultant shall provide and furnish the office facilities, equipment, and transportation required to perform the Owner's Oversight. Additionally, and at a minimum, each member of the Consultant Team shall have:

- Appropriate vehicles equipped with flashing beacons that are capable of traversing typical work zone terrain. The Consultant shall display the company logo on each vehicle. Vehicle dash cameras will be required on any vehicle performing field audits auditing.
- A cell phone capable of service at any location within the Project limits
- A state of the art laptop computer with internet connectivity. The Consultant shall be responsible for proving their own internet service.
- The ability to connect to the internet remotely from any location within the Project limits to perform audits.
- Access to a color printer and a scanner (capable of scanning 11"x17" sheets).
- Digital GPS cameras for documentation of construction work
- The O&M Oversight Lead and Auditor are required to onsite or within 15 minutes of the projects during normal business hours. All other personnel may work remotely as approved by CTIO. Office facilities shall be capable of housing 3 work stations, a meeting room for 4-6 people, and common amenities (basic kitchen and restroom facilities). Shared office facilities with the developer are acceptable.

IV. Deliverables

The Consultant will be expected to prepare a monthly Quality Assurance Oversight Report to CDOT/ CTIO on the status of the performance requirement tasks that will include:

- Summary of Service and Financial Performance of the Developer.
- Observations of trends in the Developers performance.
- Recommendations for changes to the type and frequency of monitoring.
- If there have been non-compliance points assessed per Schedule 6, status of the cure(s).
- Back-up for the auditing and review tasks conducted for Service Performance.

- Back-up for the monitoring tasks conducted for Financial Performance:
- Developer's reports reviewed during the month.
- Documentation of auditing related to non-compliance points.