

Indefinite Delivery/Indefinite Quantity Line Item Contract for State-Wide MSE Wall Preservation

November 13, 2020

1. Purpose

The Indiana Department of Transportation (INDOT) submits this work plan for review and approval to evaluate the use of Federal-Aid for an Indefinite Delivery / Indefinite Quantity (IDIQ) Line Item Contract to address Mechanically Stabilized Earth (MSE) wall preservation needs. With approval of this work plan, INDOT will use federal aid for IDIQ Contracts under the FHWA SEP-14 program to expedite project delivery to the lowest responsive and responsible bidder.

The use of the IDIQ procurement method is anticipated to reduce life cycle costs and maintain quality for MSE Wall preservation projects. The current procurement practice revolves around the use of emergency contracts (which are often paid for at a premium) or traditional design, bid, build that is incorporated into a larger bridge or road preservation project. Both practices are inefficient and increase costs. It is anticipated the IDIQ procurement method for MSE Wall preservation will allow INDOT to more effectively and efficiently complete preservation projects specific to MSE Walls.

2. Scope

INDOT intends to utilize the IDIQ line item contract method to procure a single contract in an amount of \$8,400,000 for MSE Wall preservation and maintenance at various locations throughout the State of Indiana. The contract will specify various MSE Wall preservation methods that will include specialized repairs such as MSE wall soil nail reinforcement, underseal of reinforced concrete bridge approach with pressure grouting, MSE wall backfill stabilization with flowable fill, and MSE wall facing panel joint filling with weep hole installation. INDOT has identified approximately 30 predesignated locations, based upon the INDOT retaining wall asset inventory database, as candidates for this contract.

The IDIQ contract will identify pay items associated with special provisions developed specifically for the associated MSE Wall preservation work types, provide typical drawings for the special provisions, and estimate nominal quantities for the contractors to bid upon. These quantities are based on the known locations prioritized for preservation and the preliminary preservation method estimated for the specific location but will be considered indefinite. The contractor will provide unit bid prices that will be considered contractual. INDOT will select a single contractor based on the lowest, responsive, and responsible bids received.

Once awarded, INDOT will send the contractor work order assignments for locations identified as candidates for the work types outlined in the IDIQ contract. The selected contractor will provide a final design of the preliminary scope work developed by the department to identify final placement and engineering of the specialize preservation method. Locations are prioritized based on INDOT's retaining wall asset inventory database and placed into the STIP for funds and asset management tracking. Prior to INDOT approval of any contractor submitted work order, INDOT and the contractor must complete the following:

- Participate in an on-site joint scoping meeting,
- Contractor will submit joint scoping documentation to INDOT,
- INDOT will provide NEPA review of submitted scope documentation for compliance with programmatic agreements or project categorical exclusion,

- Contractor will submit engineering plans based on information from joint scoping meeting for review by INDOT Geotech,
- Contractor will submit work order to INDOT for concurrence prior to construction mobilization (reviewed plans, quantities, cost estimate, and schedule),
- INDOT will review the submitted work order and final design plans for compliance with the contract and engineering design standards,
- Upon approval, contractor will mobilize for construction,
- INDOT to provide on-site construction inspection and record management.

It is anticipated that work performed by the IDIQ contract would include:

- MSE Wall Panel Rehabilitation or Repair
- Approach stabilization caused by MSE backfill loss
- MSE Wall Reconstruction or Reinforcement
- MSE Wall Backfill stabilization

The contract will meet all Federal requirements. This would include the FHWA 1273, the Material requirements of 23 CFR 635 Subpart D (including Buy America), NEPA, DBE provisions, etc.

3. Schedule

INDOT will administer this project over a three-year period starting in FY 2021 through FY 2024. INDOT will obligate the total anticipated project amount in FMIS under the master contract in FY 2021. The following schedule is anticipated for the project:

- Advertisement of Contract: December 2020
- Bid Opening: January 2021
- Notice to Proceed: February 2021
- Contract Status Review and Report: February 2022
- Contract Status Review and Report: February 2023
- Contract Status Review and Report: February 2024
- Substantial Completion: May 2024
- Contract Closeout: July 2024
- Final Contract Status Report: September 2024

Administration of NEPA approvals, right of way certification, and utility coordination for each predesignated site will be completed by INDOT prior to contract advertisement.

4. Measures

- a. INDOT will review and evaluate the following during the IDIQ program:
 - i. Time from joint project scoping to project completion,
 - ii. Responsiveness of contractors,
 - iii. Cost effectiveness to perform the work,
 - iv. Contractor/ industry reaction to this method,
 - v. What worked well, what did not, and suggestions for improvement, and
 - vi. Quality of work delivered.

5. Reporting

- a. The INDOT IDIQ Program Manager will submit an annual status report to FHWA each February (February 2022, February 2023, and February 2024)
- b. The INDOT IDIQ Program Manager will submit a final evaluation report to FHWA within four months after substantial completion of the contract.