

North State Street Road Bridge at Ackerman Creek | Br. No. 10C-0065

The following additional tasks will be performed by the Quincy Engineering Team for the design of a new bridge and approach roadways:

- Additional project management, project coordination and project team meetings for agency, right of way and project design issue resolution.
- Additional bridge design and analysis as a result of the liquefaction criteria and recent guard railing MASH compliance requirements per CT.
- Additional R/W support and revisions of R/W documents based on landowner negotiations
- Additional Utility coordination with PG&E (electric & natural gas), AT&T, Comcast, City of Ukiah Electric, City of Ukiah Sewer, and Millview County Water District
- Additional permitting support for approved permits that will need revising

The additional and supplemental work required is described below in accordance with the original contract scope of work.

PHASE 1- PROJECT STUDY REPORT/TYPE SELECTION

TASK 1.0: PROJECT MANAGEMENT

Additional Project Management tasks are required due to an additional three-year project delay resulting from external agency input, utility company input, and property owner negotiations. This includes project management, tracking, and communication of project engineering design budget, administrative costs, project progress reporting, and coordination with the County, as well as other project stakeholders, and the entire Project Development Team (PDT).

This includes the following project management tasks:

- Critical Path Schedule updates;
- In person PDT meetings (total 2);
- Monthly teleconference meetings (12);
- Meeting Agendas, Minutes, and Action Item Summaries; and
- Monthly Invoices, Progress Reports, and Look-Ahead Summaries.

Task 1 Deliverables:

- Schedule Updates
- Project Meetings (2)
- Project Progress Reports
- Monthly Teleconference Meetings (12)

PHASE 3- PRELIMINARY DESIGN

TASK 20.0: UTILITY COORDINATION

Quincy will perform additional utility relocation coordination with PG&E (electric & natural gas), AT&T, Comcast, City of Ukiah Electric, City of Ukiah Sewer, and Millview County Water District. This coordination includes evaluation and review of the horizontally directionally drilled natural gas transmission main, as well as the temporary and permanent relocations of the above-ground facilities. Additional coordination driven by changes to the final Right of Way limit is required. Quincy will provide communication and coordination with the utility companies by contacting them during the final design phase. Using County letterhead, we will prepare the C letters according to Caltrans and County procedures. We will coordinate the relocation and protection of the existing utilities for the project based on information obtained from the various affected utility owners.

QEI will coordinate work with utilities and review facility relocation designs provided by the utility companies to ensure they are consistent with the project design and proposed ROW. Since the bridge construction will be phased over two seasons, additional coordination to ensure existing utilities remain in service between construction seasons is required. Additional coordination for the tie-in timing prior and after construction is also required. Utility relocation design is specifically not part of the Team's scope of

work.

Task 20 Deliverables:

- Utility C Letters
 - Utility Coordination Meetings
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PHASE 4- FINAL DESIGN

TASK 21: FINAL DESIGN

TASK 21.1 – FINAL BRIDGE DESIGN

The current Caltrans Type 732SW bridge railing is not acceptable since it is not crash tested, not in compliance with federal Mash and Caltrans requirements. The bridge railing will be changed to a reinforced concrete Type 842 SW railing. Approximately 6 bridge plan sheets will need revisions due to the changes to the barrier.

TASK 21.2 – FINAL APPROACH ROADWAY DESIGN

Additional final approach roadway design will be required due to the change to the concrete bridge railing width. Additional design to ensure this extra width will work with the stage construction details that have been previously developed will be needed. Approximately 10 roadway plan sheets will need revisions due to the changes to the barrier.

Task 21 Deliverables:

- Revised Final Bridge Design Details
 - Revised Final Roadway Design Details
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TASK 26: CONSTRUCTION QUANTITIES & ESTIMATE

Construction quantities and the Team's estimate of construction costs (Q and E) will be updated. Quantities will be calculated in accordance with Caltrans' practice and segregated into pay items. The final estimate will show quantities and costs as well as a project cost summary. Summary sheets of various structures items for the Construction Resident Engineers use will also be provided.

Task 26 Deliverables:

- Revised Quantities and Engineer's Estimate
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TASK 29: RIGHT-OF-WAY ENGINEERING

QEI performed additional right of way engineering tasks, including, field surveys to determine property boundaries, development of appraisal maps, plat maps and legal descriptions for acquisition deeds, perform a record of survey and preparing right of way record mapping. The Right of Way engineering needed several iterations as a result of the negotiations with the adjacent landowners. Addition Right of Way coordination with the utility companies was also required.

Task 29 Deliverables:

- Revised Appraisal Maps
 - Revised Plat Maps and Legal Descriptions
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TASK 30: REGULATORY AGENCY PERMITS

QEI will provide additional technical support such as exhibits, quantity calculations, and other technical information as required to adequately identify and describe the limits of impact (lateral and vertical), likely construction methodologies, temporary vs. permanent impacts, and other technical information required for the various environmental permit applications. QEI should also review permit applications and provide feedback on commitments that are proposed to the agencies.

The following permits have been obtained, though will need reviewing for consistency with the final design:

- Section 404 Permit (U.S. Army Corps of Engineers)
- Section 401 Water Quality Certification (North Coast Regional Water Quality Control Board)
- Section 1600 Streambed Alteration Agreement (California Department of Fish and Game)

Task 30 Deliverables:

- Permit Review
 - Permitting Agency Coordination
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TASK 33: RIGHT-OF-WAY-APPRAISAL & ACQUISITION SUPPORT

The County has been performing all tasks related to appraisals and acquisition of necessary right of way, temporary easements and/or other permanent easements. Quincy Engineering has performed additional coordination with the county to determine and verify right of way acquisitions are adequate for the project. Right of way needs have changed after the submittal of the 65% Plans and construction details, including property access, utility relocation, and other appurtenances have required modification.

Task 33 Deliverables:

- Right of Way Support as required by County
 - Coordination of changes to details resulting from Right of Way Changes
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