

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 www.ctmale.com



August 26, 2025

Ryan K. Riper, P.E.
Director of Planning & Engineering
Town of Wilton
22 Traver Road
Wilton, NY 12831

*Re: Proposal for Engineering Services- TSCO #1
Smith Bridge Road Widening & Dam Upgrade Project
Final Design Phase, Permitting, Bidding and Construction Phase Services
Town of Wilton, Saratoga County, NY*

Dear Mr. Riper:

C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. (C.T. Male) is pleased to present this proposal to prepare additional services related to the Smith Bridge Road Widening Project and upgrade to Smith Bridge Road Dam. Our report entitled "*Smith Bridge Road Widening Evaluation, Summary of Conceptual Findings,*" dated July 21, 2025 and preliminary design plans discuss the proposed project. The proposed project includes widening the roadway by adding a paved shoulder to both sides of the road, increasing the horizontal curve radius of Smith Bridge Road at Cider Mill Way and improvements to Smith Bridge Road Dam to facilitate the road widening.

The Town Board has accepted our findings and authorized the project to proceed to final design to facilitate construction of the road widening project.

These services are described below:

1. Final Design Phase Services
2. Permitting
3. Bidding
4. Construction Administration
5. Construction Observation

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Task 1: Final Design

Task 1 includes the remainder of design phase services necessary to advance the preliminary plans to final design plans and specifications.

1. Advance preliminary plans for the road widening project to include construction level details and a plan/profile. Additional details will be provided at the intersection of Cider Mill Way for that intersection re-alignment.
2. The plans for the road widening over the Smith Bridge Road Dam are considered more conceptual in nature (as of the July 2025 preliminary submission) and require the most effort to advance to final design. The following additional design phase services are included:
 - a. Advancement of one soil boring along the dam to a maximum depth of 60 feet, collection of soils samples, completion of in-situ permeability tests, and installation of a monitoring well within the drilled borehole upon completion of drilling. C.T. Male will retain a drilling subcontractor to perform the work and provide observation during the drilling. It is assumed that the Town Highway Department will provide traffic control for a temporary one lane closure of the road while the soil bring is performed and maintain closure for 2 hours after completion of the drilling for the concrete road patch to cure. Limited geotechnical laboratory index testing will be completed on recovered soil samples at the engineer's discretion.
 - b. Finalization of the slope stability analyses based upon the subsurface investigation and testing.
 - c. Preparation of the design level details for the widening of the dam including sheet piles, underdrains, controlled fill, grading details and structural details for incorporation of existing culvert/headwalls and sheet pile wall.
3. Preparation of an Engineer's Report for the Smith Bridge Road Dam upgrades, for issuance to NYSDEC as part of the permit process.
4. The opinion of probable construction cost will be refined based upon the final design plans.
5. Prepare a project manual, which includes bidding and contract documents and technical specifications.

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The following assumptions apply for this task:

- The widening project will include installation of a 3-foot wide paved shoulder with an overlay on the existing asphalt. Based upon the preliminary plans, the conservative estimate of earth disturbance is approximately 40,000 square feet, below the 1 acre threshold for coverage under GP-0-25-001. This proposal assumes that coverage under the GP is not required, and no post-construction stormwater management controls are included in the project scope.
- The widening project at the western end of Smith Bridge Road will not include work within the NYSDOT right-of-way. However, it is our understanding that a traffic signal is planned to be installed at this intersection and final design plans for that traffic signal will be provided to C.T. Male for inclusion in our design plans, for reference to the separate Contract only.
- The preliminary plans identify conflicts with several utility poles, which will need to be relocated (to a location still within the Town ROW) as part of this project. This proposal assumes that the Town will coordinate this work with National Grid.

Task 2: Permitting

1. Wetland Delineation: C.T. Male will complete a delineation of wetlands and waterbodies at the project site. The wetland delineation will cover the entire length of Smith Bridge Road on both sides of the road within the right-of-way. The delineation will be conducted in accordance with 1987 U.S. Army Corps of Engineers (Corps) Methodology and its Northeast Regional supplement. Individually labeled flagging will be placed in the field and representative photographs will be taken. If applicable, representative ordinary high-water mark (OHWM) points within streams will be determined and located, and representative stream width measurements will be taken to determine average stream width within the site, along with a linear feature showing overall stream course. Corps Data Forms will be prepared for each representative wetland identified, along with at least one (1) upland data form per site. Wetland/waterbody boundaries will be located using a Trimble GPS unit.

NYSDEC will not validate wetlands in the winter season so this proposal assumes that the wetland delineation will be performed in the fall of 2025.

2. NYSDEC Jurisdictional Determination & Boundary Validation: C.T. Male will submit a Jurisdictional Determination (JD) request to the NYSDEC for the wetlands delineated

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on the site. The intent of this JD request is to determine if any of the site wetlands are State wetlands subject to permitting requirements under the NYS Freshwater Wetland Act (2025), and to obtain a validated wetland delineation and jurisdictional determination from the NYSDEC. This task includes the following items:

- Submit the wetland delineation map and report to NYSDEC Region 5 under the current JD procedures “Consultant Option.”
 - Complete up to one (1) day in the field with NYSDEC Region 5 staff to validate or modify as needed the delineated NYSDEC freshwater wetland (FWW) boundaries.
 - Complete minor revisions to the wetland delineation map and report, as required by the NYSDEC, and coordinate acceptance by the NYSDEC.
3. Wetland and Waters of the U.S. Permitting: To authorize wetland, stream, and FWW adjacent area impacts, C.T. Male will prepare a Joint Permit Application (JPA) for submission to the U.S. Army Corps of Engineers (Corps) and NYSDEC to authorize work regulated waters and adjacent areas that are delineated under this scope of work. For this proposal we assume the project will require coverage under the following permits:
- Nationwide Permit #3 Maintenance (Corps)
 - Section 401 Water Quality Certification (NYSDEC)
 - Article 24 Freshwater Wetlands (NYSDEC)
 - Article 15 Protection of Waters (NYSDEC)
 - Dam Safety (D-1 Supplement)

The following assumptions apply for this task:

- General or blanket permits will be used where possible.
- This task assumes that the aquatic impacts will meet general permit requirements so that compensatory mitigation is not required.
- An impact mitigation plan is not included.
- A pre-application conference call with the agencies is included, as well as one (1) additional site visit with permitting agencies.
- The fee includes responding to one round of revisions on the dam upgrade by NYSDEC, Division of Dam Safety.

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- Any permit fees (if required) will be paid by the Town.

Task 3: Bidding Services

Task 3 will include bidding services including:

- Provide plans and specifications for each prospective bidder in electronic format.
- Respond to questions during the bid period. Issue addenda, as necessary.
- Attend pre-bid meeting, prepare pre-bid meeting minutes.
- Attend bid opening, analyze bids and recommend award.

Task 4: Construction Administration

For work on Smith Bridge Road Dam, NYSDEC Dam Safety will require engineering oversight, issued under the D-1 application. It is assumed (based upon our experience with Dam Safety work) that the permit issued will require the engineer of record for the project to certify the work was completed under their direct supervision and was completed per the design plans. NYSDEC also required in the past a record drawing survey of the work.

This proposal assumes that C.T. Male will provide construction phase services for both the work to widen the road and for the work on the dam.

The construction administration services include:

1. Assemble and distribute contract manuals for signature.
2. Schedule and attend pre-construction meeting.
3. Attend and organize periodic progress meetings. It is assumed that meetings will be held bi-weekly during the construction phase. For budgeting purposes, a twelve (12) week construction schedule is anticipated.
4. Address construction issues, interpret contract documents.
5. Assist the Town in administering the terms of the construction contract. Should disputes arise, C.T. Male will provide interpretation of the contract documents. Work resulting from claims by the contractor for items outside the control and/or authority of C.T. Male will require additional effort not included in this scope of work.
6. Review and approval of submittals and payment applications.

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7. Review change order requests and issue change orders as needed for Town consideration. This proposal covers reasonable change orders with the scope of the bid documents to address common site conditions. If the Town requires additional or changed work that is beyond the bid document scope, then additional hours will be negotiated.
8. Certify that the work has been completed in substantial conformance with the contract documents.
9. Certify to NYSDEC that the work on Smith Bridge Road Dam has been performed in conformance with the original design plans.
10. For work on the dam, prepare a record drawing based upon an as-built survey of the work for submission to NYSDEC along with the project certification.

If there are unforeseen conditions during construction that warrant project design changes or additional responses above and beyond the standard of care for a project of this scope, a separate scope and fee will be prepared for consideration.

Task 5: Construction Observation

C.T. Male will provide a full-time construction observer for the project to perform the following tasks:

1. Observe work for general conformance with the contract documents and report progress and deviations from the plans and specifications.
2. Obtain record information, as needed. The Contractor will be responsible for submitting record plans in electronic format for the road widening portion. Record plans for the dam work will be performed by C.T. Male.
3. Assist in review of Contractor's payment requests for accuracy.

The total hours necessary for construction observation will depend on the contractor's schedule. Construction observation will be performed at an hourly rate, with estimated construction duration of 12 weeks, or approximately 540 hours of observation time assuming a 45-hour work week. Mileage for construction observation is included in Task 4.

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Fee:

C.T. Male's fee breakdown to conduct the work described in this proposal is as follows:

Task/Work Item	Task Total (Lump Sum)
1: Final Design	\$ 65,000
2: Permitting	\$ 18,000
3: Bidding	\$ 7,700
4: Construction Administration	\$ 32,000
Total Tasks 1-4	\$ 122,700
5: Construction Observation	\$140 per hour*

**Construction observation will be billed on an hourly basis. For this project, the budgeted estimate would be 540 hours for an estimated construction duration of 45 hours per week for 12 weeks for a total of \$75,600.00.*

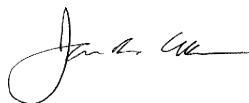
If you have any questions, please feel free to contact me at your convenience at 518-786-7651 or k.serra@ctmale.com.

Sincerely,

C.T. MALE ASSOCIATES



Kathryn C. Serra, P.E.
Senior Civil Engineer/Project Manager



James R. Edwards, P.E.
Vice President