

June 9, 2022

Mr. Frank Smeriglio
Director of Public Works
Town of Wilton
238 Danbury Road
Wilton, CT 06897

**Re: Scribner Hill Road Slope Stabilization
Wilton, CT**

Dear Mr. Smeriglio:

Thank you for the opportunity to work with the Town of Wilton on this project. As requested, Cardinal Engineering Associates has prepared the following Scope of Services and Fee Proposal for completing the conceptual design for the repair of the slope failure at the east side of Scribner Hill Road along the CTDOT property.

The project area is located on Scribner Hill Road approximately 850 feet north of Blue Ridge Road and is approximately 250 feet in length. The slope failure occurred along the eastern downhill embankment. A section of roadway has failed as well.

The project involves providing civil engineering design services to provide a repair of the embankment and to prevent future failures.

Cardinal will engage the services of a geotechnical engineering firm (Down to Earth Consulting, LLC.) to assist in the analysis of existing conditions and design of the proposed improvements.

We look forward to working with the Town of Wilton. If you have questions or require additional information, please do not hesitate to call.

Very truly yours,

CARDINAL ENGINEERING ASSOCIATES, INC.



Roy Seelye, P.E.
Senior Project Manager

**PROPOSAL FOR
CIVIL ENGINEERING DESIGN SERVICES FOR
SCRIBNER HILL ROAD SLOPE STABILIZATION
TOWN OF WILTON, CT**

SCOPE OF SERVICES

A. Survey

1. Obtain from the Town the records of the USC and GS datum and horizontal control if available in the vicinity of the Project area.
2. Establish survey baselines.
3. Perform all field topographic survey necessary for preparation of conceptual plans for repairs to the slope, including locating the existing roadway, curbing, drainage structures and piping, sanitary sewers, water, gas and all other utilities, significant vegetation, utility poles and overhead utilities, signs, fences, guiderail, walls, mailboxes, visible iron pins and merestones along street line and property corners and all other features necessary for design.
4. Plot existing utility sizes, inverts and type, if necessary, for design based on available as-built utility plans. Obtain invert elevations of storm drains, if necessary, to supplement as-built information.
5. Prepare plan and profile of existing conditions for use in design.
6. Plot approximate street line based on the Town GIS mapping. No deed research or field survey to set property lines/street rights-of-way will be performed.

B. Existing Field Conditions Review

1. Develop a subsurface exploration program, including securing and coordinating the services of a reputable boring contractor. It is assumed that three borings advanced to a depth of 20-feet or refusal will be sufficient to characterized subsurface conditions to be used in the preparation of conceptual designs. Two (2) 10-ft. rock cores will be taken to confirm depth and assess the quality of the rock. Two days of borings is anticipated and included in the scope of services. Observe the subsurface soil investigation. Please refer to Down to Earth's proposal (attached) for more detail.
2. Perform acoustic televiewing of the rock cores to estimate the rock core jointing and orientation. This information will be used to perform the global (i.e. rock slope) stability analysis of the proposed wall/slope geometry.
3. Secure the services of a Geotechnical Engineer. Review site conditions, observe the borings and prepare a report summarizing the results of the boring program and provide recommendations for the geotechnical design and construction of the proposed wall. See attached scope and fee proposal from Down to Earth.
4. Meet with Town Staff. and perform site walk to evaluate existing conditions.

C. Conceptual Engineering Study

1. Develop conceptual plans for the repair of the damaged roadway embankment and guiderail and for modifying the existing roadway to prevent future slope failures within the project area. One concept plan will be developed.

2. Provide conceptual design cost estimates for the conceptual plans.
3. Attend up to two site meetings with Town representatives to review conceptual plans.

COMPENSATION

A. Survey

For all services under this task, the Lump Sum of \$ 4,500

B. Existing Field Conditions Review

For all services under this task, the Lump Sum of \$ 3,000

C. Conceptual Engineering Study

For all services under this task, the Lump Sum of \$ 12,500

TOTAL \$ 20,000

D. Direct Costs

Direct Costs (Actual invoice plus 5%)

Geotechnical Engineer / Borings / Geotechnical Report \$ 19,650

Soil Scientist \$ 2,000

Printing, mileage \$ 500 EST

Preliminary and Final Design, Bidding, Permitting and Construction Phase services are not included in this proposal but can be provided for an additional fee.