



CITY OF MARLBOROUGH
Department of Public Works
 Engineering Division
 135 Neil Street
 Marlborough, Massachusetts 01752

March 15, 2023

To: All Bidders of Record
 Date Issued: March 15, 2023

RE: Addendum No. 3:
Lake Williams Boardwalk
Contract ED 2023-02
Bid Date: Friday, March 17, 2023 @ 9:00 AM

This addendum shall become part of the Contract Documents as described within the Instructions to Bidders section for the above referenced project. Bidders are advised that this Addendum must be acknowledged in the appropriate space provided on the Form for General Bid.

The purpose of this addendum is to clarify the following:

Q. Is there a section on an allowable load in compression, tension, and a shear load for the piles?

A. The contractor's structural engineer shall provide the design loads that will include lateral (all horizontal load components including seismic base shear or wind), and axial loads (including compression and uplift). These design loads should be used by the contractor's professional engineer to design the helical piles, including but not limited to the sizing of the helical pile, helices configuration, minimum depth of helical piles, and required torque to achieve the pile capacity based on the site specific soil conditions.

The boardwalk as described in the Complete Plan Set dated March 2, 2023, shall be designed in accordance to the minimum design loads of the 9th edition of the MA Building Code. As indicated in this set, the Helical pile foundation shall be sized by a licensed structural engineer (i.e., structural engineer to select the final helical pile size and configuration of helices). The minimum distributed design pedestrian live load should be 100 psf. In addition to this, the following loads should be considered:

- The weight of a standard ATV used as emergency and/or maintenance vehicle.
- The weight of any construction equipment and machinery that will be used by the contractor during construction.

The contractor's professional engineer should incorporate in its analysis ice, snow and dead loads as well as wind, seismic and the live loads described above. Potential uplift loads should be considered and are dependent on the system the contractor is installing.

Q. Do you have the loads that the helical pile will need to withstand? This will help us in determining our helical flight configuration.

A. The professional engineer of record shall select the design loads per the response in the question above and design the final helical pile size and configuration to determine the design depth.

Q. Can you please confirm the pile size diameter? It is mentioned in the Boardwalk specifications that 2-7/8" O.D. should be assumed.

A. The diameter of the helical shaft, as well as the number/diameter/spacing of the helices will be designed by a licensed professional engineer of record. The City of Marlborough does not represent that the 2-7/8" O.D. pile size diameters will be adequate to support the design loads.

END OF ADDENDUM NO. 3