

**PETERSON POND
SPILLWAY REPAIR
Project No. 22-4441**

SECTION 02484

STEEL SHEET PILING

PART ONE - GENERAL

1.01 SCOPE

- A. This work consists of furnishing and installing new steel sheeting and related items as shown on the plans and specified herein.

1.02 SUBMITTALS

- A. Mill reports...Contractor shall submit a certified copy of all mill reports covering the chemical and physical properties of new steel piling used in the work under this Section of the specifications.

PART TWO - PRODUCTS

2.01 NEW STEEL SHEET PILING

- A. General...Steel sheet piling shall conform to the requirements of ASTM A328 with a minimum yield strength of 36,000 psi.
- B. Sections...Piles shall be of the types indicated on the drawings and shall be of a design, such that when in place they will be continuously interlocked throughout their entire length.
- C. The types and dimensions of the piles the Contractor proposes to furnish shall be submitted for approval, and no order for delivery of such piles shall be given by the Contractor prior to receipt of written approval of the Architect/Engineer. Piles shall have the properties listed in the following table.

PROPERTIES OF SECTIONS

<u>Thickness (in.)</u>	<u>Modulus (in³/ft wall)</u>	<u>Section Weight (lbs/ft²)</u>
0.197	4.14	11.50

- D. Each steel pile shall be free from any kinks and shall not possess camber, twist, or warp of a degree which will, in any manner, prevent easy and ready driving of a pile. The interlock of each pile shall be straight throughout its entire length and shall be of such shape and dimensions as will permit free and easy threading of the pile.

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- E. Fabrication of special piles...The Contractor shall fabricate and furnish special corner piles as required. Special piles shall be constructed using plates and angles utilizing standard welding practices.
- F. Connectors...Nuts and washers and threaded tie rod shall be standard strength, conforming to ASTM A307 and be hot dipped galvanized.
- G. Welding Electrodes...E60 or E70 series.

2.02 PILE CAP

- A. General...Steel pile cap material shall conform to the requirements of ASTM A36.
- B. The types and dimension of the pile caps the Contractor proposes to furnish shall be submitted for approval, and no order for delivery of such pile caps shall be given by the Contractor prior to receipt of written approval of the Architect/Engineer. Piles caps shall meet the following: table.

PROPERTIES OF SECTION

<u>Thickness (in.)</u>	<u>Modulus (in³/ft wall)</u>	<u>Section Weight (lbs/ft²)</u>
0.250	4.5	9.9

PART THREE - EXECUTION

3.01 CONSTRUCTION METHODS

- A. Removing Obstructions...Remove any hidden rocks or other items that would prevent driving of the proposed sheeting.
- B. Placing and Driving...Piles shall be carefully located as shown on the drawings and driven in a plumb position, each pile interlocked with adjoining piles for its entire length, so as to form a continuous diaphragm, throughout the length of each run of wall. The Contractor shall drive all piles as true to lines as practicable and shall provide suitable temporary walers or guide structures to insure that the piles are driven in correct alignment. All piles shall be driven to the depths shown on the drawings and shall extend to the elevations indicated for the tops of the piles. After driving the piles shall be cut off to the required top elevation as shown on the drawings. The tops of the piles shall all be at the required elevation after cutting off.

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- C. The horizontal alignment of the sheet pile wall shall be within three (3) inches of the required location shown on the Plans
- D. Boulders and Obstructions...If boulders or obstructions are encountered they shall be removed, split, or dislodged to allow driving to continue.
- E. Alignment...Contractor to brace and hold in alignment sheet piling while driving.

3.02 OTHER STEEL WORK

- A. Pile cap shall be attached to each pile section in accordance with manufacturer's recommendation for this application.

END OF SECTION