



Virginia Route 164 Over Western Branch of Elizabeth River Portsmouth, Virginia

Overview

CA provide a VE proposal to use large diameter FRP pilings which reduced the construction cost of replacing the deteriorated wooden fender system. Low overhead constraints under the bridge required the contractor to use short pile sections with splices.

Pilings

Diameter (in.)	Wall Thickness (in.)	Length (ft.)	Quantity
24	0.875	89	42

Installation Method: Vibration Hammer

Installation

Owner: Virginia DOT
Engineer: Composite Advantage
Contractor: Ryan Construction
Installation Date: June 2019

Wales

Wale Type: Plastic Timber FRP bars
Wale Splices: FRP splice channel

