PART W40

REPAIR OF TIMBER PILES WITH EPOXY RESIN OR CEMENTITIOUS GROUT

CONTENTS

1.   GENERAL
2.   MATERIALS
3.   METHODOLOGY
4.   WARRANTY
5.   PAYMENT
6.   HOLD POINTS

1.   GENERAL

.1   This Part covers the repair of piles by encapsulating the timber in either epoxy resin or cementitious grout.

.2   The type of repair to be used shall be as indicated on the Drawings. The Contractor shall inspect all piles at the site and report to the Superintendent any piles that may need repair but are not shown on the Drawings as such.

2.   MATERIALS

.1   The Contractor shall supply all materials required for the repair of the piles.

3.   METHODOLOGY

.1   For both types of repair system, the Contractor shall undertake the repair in accordance with the Contractor's Methodology Statement.

.2   At a minimum, the Contractor's Methodology Statement shall detail the following:

(a)   extent of marine growth, debris and decomposed timber to be removed prior to the repair;
(b)   method of removing marine growth, debris and decomposed timber;
(c)   depth below seabed of pile to be removed if total loss of pile section has occurred;
(d)   length of pile sleeve to be used to form the epoxy or grout;
(e)   method of treating large cavities in the timber;
(f)   proprietary products to be used, instruction for their use and source of supply;
(g)   product performance characteristics to be achieved;
(h)   method of avoiding honeycombing or segregation; and
(i)   method of verifying integrity of repair.

4.   WARRANTY

.1   The Contractor shall warrant all repair work for a period of 2 years, including but not limited to the loss of strength of the epoxy or grout, erosion of the product under the action of seawater, reduced flexibility and cracking.

5.   PAYMENT

.1   Payment for pile repair will be made per number of piles depending on their row location, and shall be inclusive of all work associated with the repair of each pile including the removal, demolition and reinstatement of timber bracing.

6.   HOLD POINTS

.1   There are no Hold Points referenced in this Part.

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