Steel pipe piles shall be of uniform diameter and meet the requirements of ASTM A252, Grade 3 (344.7 MPa yield strength).

Galvanized steel pipe piles, in accordance with Section 3.105 of the Standard Specifications, shall be utilized. Hot-dip galvanizing or metallizing pipe pile piles is not required.

Remove and replace or repair to the satisfaction of the Engineer piles that are damaged, deformed or collapsed during installation or driving.

Pipe splices shall be in accordance with the Standard Specifications and any other applicable standards.

For steel pipe piles, remove all soil and water from inside the pile before placing reinforcing steel and concrete. For galvanized pipe piles, remove all soil and water from inside the piles to construct the concrete plug without fouling the concrete.

Form the concrete plug such that the reinforcing steel or concrete does not move and the clearance from the reinforcing steel to the inside of the pile is maintained. The pipe pile plates shall be placed directly on the concrete plug and centered properly. The pipe piles shall be installed such that the pipe piles maintain a minimum compressive strength of 10.3 MPa.

The reinforcing steel, class A concrete, galvanizing, and the pipe pile plates, if required, are considered incidental to the contract unit price bid per meter for PP 356 x 12.7 steel piles.

Pipe pile plate detail:

Pipe pile splice detail:

Bill of Material for One PP 356 x 12.70 Steel Pipe Pile:

<table>
<thead>
<tr>
<th>Bar Types</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1</td>
<td>16</td>
<td>250 kg</td>
</tr>
<tr>
<td>S1</td>
<td>13</td>
<td>1.520m (minimum plug)</td>
</tr>
</tbody>
</table>