Design Piles using strands in the table below.

**DIAMETER**

- 0.153" Special

**PILE DATA**

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>STRANDS</th>
<th>SPECIFIED</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.153&quot;</td>
<td>2</td>
<td>0.125</td>
<td>44</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0.093</td>
<td>61</td>
<td>157</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.072</td>
<td>51</td>
<td>131</td>
</tr>
</tbody>
</table>

**BUILD-UP**

Clean surface and remove old pile. Bury a 2" deep trench through the concrete of the pile head. Install an extension plate from the top of the pile to the trench, and then backfill between the piles. The backfill should be all fine material from the top to the extension plate. The top of the plate should be level with the top of the pile. The backfill should be compacted to an embankment grade of 0.1:1.0.

**PILE ANCHORAGE DETAILS**

- For piles up to 12' long, build the pile in 32' increments.
- Use 32' long prestressed concrete piles.

**TOLERANCES**

- 0.125" to 0.153" diameter
- 0.010" to 0.020" variation from specified strand
- 0.010" to 0.020" variation from specified location
- 0.010" to 0.020" variation from specified height
- 0.010" to 0.020" variation from specified depth
- 0.010" to 0.020" variation from specified location
- 0.010" to 0.020" variation from specified height
- 0.010" to 0.020" variation from specified depth
- 0.010" to 0.020" variation from specified location
- 0.010" to 0.020" variation from specified height
- 0.010" to 0.020" variation from specified depth

**PILE ORIENTATION DETAIL**

- Pile to be located in the center of the pile group when it was placed in the ground.
PILE ORIENTATION
DETAIL

 Orient pile such that "Top" face of pile is perpendicular to E-W axis

Top face is the top surface of the pile when it was poured in the casting hole.