### Soil Condition

#### Standard Strain Poles

<table>
<thead>
<tr>
<th>Pole Foundation</th>
<th>48&quot; Diameter Drilled Pier Length (L) - Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reinforcement</strong></td>
<td><strong>Soil Conditions</strong></td>
</tr>
<tr>
<td><strong>Case No.</strong></td>
<td><strong>Longitudinal</strong></td>
</tr>
<tr>
<td><strong>Axial (kip)</strong></td>
<td><strong>Column</strong></td>
</tr>
<tr>
<td><strong>Shear (kip)</strong></td>
<td><strong>Bar Size [&quot;]</strong></td>
</tr>
<tr>
<td><strong>Moment (ft-kip)</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Foundation Selection:

1. **Values shown in the "Reactions at the Pole Base" column represent the minimum acceptable capacity allowed for design using a design CSR of 1.00.**
2. Use chairs and spacers to maintain proper clearance.
3. Hard Stiff Column - Recommend use of air entrained concrete mix.
4. Get the appropriate standard pole case number from the plans or from the Engineer.
5. Select the appropriate column under "Standard Foundations" based on the pole load case and the row intersect.
6. The foundation depth is the value shown in the "Standard Foundations" category where the column and the row intersect.

#### General Notes:

1. **Perform a standard penetration test at each proposed foundation site to determine "N" value.**
2. Select the soil type (Clay or Sand) that best describes the soil condition.
3. Select the appropriate wind zone from M 1 drawing.
4. Get the appropriate standard pole case number from the plans or from the Engineer.
5. Select the appropriate column under "Standard Foundations" based on soil type and "N" value. Select the appropriate row based on the pole load case.

#### Notes to Designers:

- **Soil Conditions**
- **Plan Date:** February 2016
- **Sheet No:** Sig.M8
- **FILE:** S:\ITS&SU\ITS Signals\Signal Design Section\Eastern Region\M Sheets\2016\2014 Sig.M8 Std. Strain Pole Found.-Saturated Soil Condition.dgn
- **Date:** 17-Feb-2016 16:14

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**Standard Strain Pole Foundation for All Soil Conditions**

**48" Dia. Foundations Concrete Volume (cubic yards) = (0.465) x Drilled Pier Length**