### METHOD: MAXIMUM MOMENT

#### Diagonal Configuration

| Support Type | Maximum Support Height above finished grade (ft) | Span (ft) | Minimum Seg (ft) | Maximum of three less faces (ft) | Maximum of four less faces (ft) | (H x 1.14) AVAILABLE L1 POLES CLASS L2 POLES CLASS L3 POLES CLASS L4 POLES CLASS |
|--------------|-----------------------------------------------|-----------|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| S            | 45                                            | 40        | 3.0             | 4                               | 5.13                            | 1.14                            | 50-56                           | 45-56                            | 45-56                           | 50-56                           |
| W            | 45                                            | 50        | 3.0             | 4                               | 6.27                            | 2.38                            | 65-56                           | 60-56                           | 60-56                           | 65-56                           |
| T            | 55                                            | 60        | 4.0             | 4                               | 5.13                            | 1.26                            | 50-56                           | 45-56                           | 45-56                           | 50-56                           |
| Z            | 55                                            | 60        | 4.5             | 8                               | 6.27                            | 2.24                            | 65-56                           | 55-56                           | 55-56                           | 65-56                           |

#### Square or Rectangular Configuration:

| Support Type | Maximum Support Height above finished grade (ft) | Span (ft) | Minimum Seg (ft) | Maximum of three less faces (ft) | (H x 1.14) AVAILABLE L1 POLES CLASS L2 POLES CLASS L3 POLES CLASS L4 POLES CLASS |
|--------------|-----------------------------------------------|-----------|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| S            | 45                                            | 40        | 3.0             | 1                               | 5.13                            | 1.14                            | 50-56                           | 45-56                            | 45-56                            |
| W            | 45                                            | 50        | 4.0             | 2                               | 6.27                            | 2.38                            | 65-56                           | 60-56                            | 60-56                            |
| T            | 55                                            | 60        | 4.5             | 3                               | 5.13                            | 1.26                            | 50-56                           | 45-56                            | 45-56                            |
| Z            | 55                                            | 60        | 5.0             | 4                               | 6.27                            | 2.24                            | 65-56                           | 55-56                            | 55-56                            |

#### Notes:
1. For concrete:
   - Formwork shall comply with ASTM C-359, Class 46.1.
   - Concrete shall be placed in lifts not to exceed 4 ft in height.
   - Concrete shall be used in accordance with the American Society for Testing and Materials (ASTM) specifications.
2. Use the following table for selection of precast concrete foundation:
   - Preload the foundation before the precast concrete is poured.
   - Use precast concrete that meets the American Society for Testing and Materials (ASTM) specifications.
3. Cable clips shall comply with the requirements of the cable manufacturer.
4. Cable shall be protected from weathering and other environmental factors.
5. Use the following table for selection of prestressed concrete:
   - Select the prestressed concrete that meets the American Society for Testing and Materials (ASTM) specifications.
6. Use the following table for selection of prestressed concrete:
   - Select the prestressed concrete that meets the American Society for Testing and Materials (ASTM) specifications.

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**EFFECTIVE DATE: DECEMBER 2000**

**TRAFFIC SIGNALS SPANNING WIRE**

PRESTRESSED CONCRETE POLE MANUFACTURED BY ORNAMENTAL POLES, S.E.

COMMUNAL OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

NOTE: USE THE FOLLOWING TABLE FOR SELECTION OF PRECAST POLE BASE SELECTION TABLE.

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**LEGEND**

- LP: POLE LENGTH
- BW: BOTTOM WIDTH
- TW: TOP WIDTH

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**DATE REVISION**

STD. TRSI

**DWG.24E OF 40**