NOTE:
1. Use number & type of T.S. as called for on plan.
2. Align red indications at same height per approach.
3. This dimension will exceed 17' when there is a 4 section head on the same span (in order to keep red indications at same elevation).
4. Preformed lashing rod to be installed the full length where signal wire is installed with span wire.

TYPICAL SPAN WIRE INSTALLATION T.S. ON STEEL AND WOOD POLES

NOT TO SCALE

FILE: RefDoc/18/Signals/Web/Sp Det/Tsn/SIG0104.dgn
REV. 02/16/17

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DELIVERY STANDARD PLAN FOR
ALL SPAN WIRE T.S. ON STEEL AND WOOD POLES
SIG-010-A

ENGINEER OF DELIVERY
ENGINEER OF DEVELOPMENT
(SPECIAL DETAIL)
FHWA APPROVAL DATE
PLAN DATE
SHEET 1 of 7
### Typical Flashing Beacon Installation on Steel and Wood Poles

<table>
<thead>
<tr>
<th>NO.</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Traffic signal (no. heads as indicated)</td>
</tr>
<tr>
<td>2</td>
<td>Span wire hanger</td>
</tr>
<tr>
<td>3</td>
<td>5/36” extra high strength span wire</td>
</tr>
<tr>
<td>4</td>
<td>3” service cap (weatherhead), (metal for steel and PVC for wood poles)</td>
</tr>
<tr>
<td>5</td>
<td>P.I. traffic signal cable (as specified)</td>
</tr>
<tr>
<td>6</td>
<td>Preformed lashing rod</td>
</tr>
<tr>
<td>7</td>
<td>Pole band clamp (steel pole)</td>
</tr>
<tr>
<td>8</td>
<td>Guy thimble (2” dia.)</td>
</tr>
<tr>
<td>9</td>
<td>5/8” x 4” long bolt, nut, washers per pole band clamp (steel pole)</td>
</tr>
<tr>
<td>10</td>
<td>Install span wire preformed (armor rod) under each span hanger</td>
</tr>
<tr>
<td>11</td>
<td>Access hand hole all new &amp; existing steel poles</td>
</tr>
<tr>
<td>12</td>
<td>5/8” eyebolt, oval eye and nut</td>
</tr>
<tr>
<td>13</td>
<td>Wood mounting or plastic duct (10’ from ground level)</td>
</tr>
<tr>
<td>14</td>
<td>1 1/2” to 2” schedule 80 PVC or rigid metal (**) See note</td>
</tr>
<tr>
<td>15</td>
<td>Preformed guy grip dead ends</td>
</tr>
</tbody>
</table>

**NOTES:**

(*) For projects maintained by the Wayne Co. Department of Public Services (WCDPS), use rigid metal for conduit(s) from grade level to 10’ (min.) above grade or as directed by the Engineer.

(#) For projects maintained by the Road Commission for Oakland County (RCOC), use drip loop (without coil) for future adjustment of signal span.

**NOT TO SCALE**

**MICHIGAN DEPARTMENT OF TRANSPORTATION**

**BUREAU OF HIGHWAYS**

**DELIVERY STANDARD PLAN**

**FHWA APPROVAL DATE**

**SIG-010-A**

**SHEET** 2 of 7

**PLAN DATE**

Rev. 02/16/17

File: R:Doc/TR/Signats/Sp/Sig_0104.dgn
**DETAIL "B"**

**POLE BAND CLAMP ON STEEL POLE**

ASTM A36 steel pole band clamps must be stamped with identification that is traceable back to the manufacturer, which can be used to determine the month and year of clamp manufacture. The stamping method must be a low stress stamping method. The stamp cannot be located near the bolted flange, must be located near the center of the clamp on the back side facing away from traffic, and be visible after galvanizing. All bend radii are to be a minimum of 1.5 times the pole band thickness.

**DETAIL "C"**

**SERVICE CABLE ON STEEL POLE**

**DETAIL "C"**

**CABLING ON STEEL POLE**

NOT TO SCALE
NOTE:
Porcelain strain insulator (if required) shall meet the codes and placement requirements of the local utility co.
NOTE:
1) Pole Contact Height (POCH) will be 23'-0" on box span unless otherwise specified on plans or as directed by the Engineer.
2) All red indications should align horizontally.

DETAIL A: INSTALLATION OF BOX SPAN WIRE T.S. ON STEEL OR WOOD POLES

NOTE:
1) Pole Contact Height (POCH) will be 24'-0" on box span with a left turn phase unless otherwise specified on plans or as directed by the Engineer.
2) All red indications should align horizontally.

DETAIL B: INSTALLATION OF BOX SPAN WIRE T.S. W/DT PHASE OR 4TH LEVEL ON STEEL OR WOOD POLES

NOTE:
1) Pole contact height (POCH) will be 24'-0" on box span with a flashing yellow arrow unless otherwise specified on plans or as directed by the Engineer.
2) All red indications should align horizontally.

DETAIL C: INSTALLATION OF BOX SPAN WIRE T.S. FYA AND DOGHOUSE ON STEEL OR WOOD POLES

BOX SPAN WIRE T.S. ON STEEL OR WOOD POLES

For use on Oakland County roads only.