SPAN WIRE ATTACHMENT BETWEEN POLES

DELAWARE DEPARTMENT OF TRANSPORTATION

STANDARD NO. T-12 (2006) SHT. 1 OF 2

NOTE: SPAN WIRE ATTACHMENT BETWEEN METAL POLES IS THE SAME AS SHOWN FOR WOOD POLES EXCEPT THAT THE STRAIN PLATES AND GUY HOOKS ARE NOT USED. FOR DETAIL SEE T-H SHEET 2 - "DEAD END MESSENGER WIRE ATTACHMENT, METAL POLES ".

APPROVED: 12/5/05

RECOMMENDED: 11/8/05

09/09/2005
WOOD POLES

SERVICE WEDGE CLAMP
MESSENGER WIRE
MESSENGER CLAMP
CABLE SPACER
ELECTRICAL CABLE
WOOD POLE

GALVANIZED 5/16" X 3" (75) X 3" (75) WASHER WITH 5/8" CB HOLE
GALVANIZED 3/8" X 1" NUTS (2 REQUIRED)
GALVANIZED 3/8" X 1" EYEBOLT

NOTES: 1. INSTALLATION METHOD SHOWN FOR DEAD END MESSENGER WIRE ATTACHMENT TO METAL POLES SHALL BE USED FOR SPAN WIRE ATTACHMENT BETWEEN METAL POLES.

METAL POLES

SERVICESLEEVE
GALVANIZED 3-BOLT 1/2" X 4.5" GUY CLAMPS (2 REQUIRED)
MESSENGER WIRE 1/2" WRAPS AROUND POLE
METAL POLE

DELWARE DEPARTMENT OF TRANSPORTATION DEAD END MESSENGER WIRE ATTACHMENT APPROVED

STANDARD NO. T-12 (3965) SHT. 2 OF 2 RECOMMENDED

09/09/2005
NOTES:

1. TYPE 6 CONDUIT JUNCTION WELL SHALL BE PRECAST POLYMER CONCRETE.
2. ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
3. POLYMER CONCRETE COVERS SHALL BE THE HEAVY-DUTY TYPE WITH A DESIGN LOAD OF 15,000 LBS (6600 kg) OVER A 10" (255) SQUARE.

PLAN VIEW

SECTION A-A
NOTES:

1. Type T conduit junction well shall be precast polymer concrete.

2. All conduit junction wells constructed within pavement, sidewalks, etc. will be constructed flush with the surface of the same; installation in unpaved areas will be constructed above grade and graded to drain away from the conduit junction well.

3. Polymer concrete covers shall be the heavy duty type with a design load of 5,000 lbs (6800 kg) over a 0" (255) square.
Notes:
1. Types B & D conduit junction wells shall be precast polymer concrete.
2. All conduit junction wells constructed within pavement, sidewalks, etc. will be constructed flush with the surface of the same; installation in unpaved areas will be constructed above grade and graded to drain away from the conduit junction well.
3. Polymer concrete covers shall be the heavy-duty type with a design load of 8,000 lbs (6000 kN) over a 10" (255) square.

Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Type B</th>
<th>Type D</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>47 1/8&quot; (1200)</td>
<td>35 1/8&quot; (905)</td>
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<tr>
<td>B</td>
<td>30 1/8&quot; (760)</td>
<td>24 1/8&quot; (600)</td>
</tr>
<tr>
<td>C</td>
<td>48 1/8&quot; (1200)</td>
<td>37 1/8&quot; (950)</td>
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<tr>
<td>D</td>
<td>32 1/8&quot; (810)</td>
<td>26 1/8&quot; (660)</td>
</tr>
<tr>
<td>E</td>
<td>45 1/8&quot; (1150)</td>
<td>33 1/8&quot; (840)</td>
</tr>
<tr>
<td>F</td>
<td>28 1/8&quot; (710)</td>
<td>22 1/8&quot; (565)</td>
</tr>
<tr>
<td>G</td>
<td>36&quot; (914)</td>
<td>30&quot; (762)</td>
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<tr>
<td>H</td>
<td>33&quot; (838)</td>
<td>21&quot; (533)</td>
</tr>
<tr>
<td>I</td>
<td>58&quot; (1473)</td>
<td>48&quot; (1219)</td>
</tr>
<tr>
<td>J</td>
<td>40&quot; (1016)</td>
<td>34&quot; (864)</td>
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</table>

DelDOT

Delaware Department of Transportation

Conduit Junction Wells, Types B & D


Approved

05/03/2006
TUBE SHELLS

CAP SCREW

TUBE ASSEMBLIES

BASE

WIRING ACCESS DOOR WEATHER PROOF

TO CONTROLLER CABINET

METAL CAP (SEE NOTE 4)

4-CONDUCTOR #8 AWG SHIELDED LEAD-IN CABLE

CABLE ENTRY PORT

1/4" x 3/4" WEEP HOLE (AT THE BOTTOM OF THE BASE)

MOUNTING NUT

TO MAST ARM

SIDES VIEW

CABLE CONNECTIONS TO TERMINAL STRIP

ACCESS DOOR SCREW HOLE

4-POSITION TERMINAL STRIP

BLACK

RED

GREEN

WHITE

NOTES:
1. UPRIGHT CONFIGURATION SHALL BE USED FOR MOUNTING ON MAST ARMS, SIGNAL HEAD FRAMEWORKS AND PEDESTALS.
2. UPRIGHT MOUNTING HARDWARE SHALL BE SUPPLIED BY THE DEPARTMENT.
3. TEFON TAPE SHALL BE APPLIED TO THREADS BEFORE MOUNTING.
4. ROUTE THE LEAD-IN CABLE THROUGH THE METAL CAP AND THE RUBBER PLUG.
   REPLACE THE METAL CAP, SEALING THE CABLE ENTRY PORT. TIGHTEN THE METAL CAP SO THE CABLE WILL NOT SLIDE THROUGH THE RUBBER PLUG.
SQUARE POST SHALL NOT BE LESS THAN 2" x 50 x 2" x 50 WITH A WALL THICKNESS OF 0.050" (2.77 mm)

2" x 50 SQUARE TUBING

CONCRETE STONE

PVC SLEEVE

INSTALLED IN SOIL

INSTALLED IN CONCRETE SIDEWALK OR MEDIAN

BREAK-AWAY ASSEMBLY

NOTES:
1. SQUARE TUBES ARE TO BE FORMED FROM GALVANIZED STEEL STRUCTURAL (PHYSICAL) QUALITY, ASTM A 446, GRADE A, COATING DESIGNATION C 90, REGULAR SPANGLE OR HOT ROLLED CARBON STEEL STRUCTURAL (PHYSICAL) QUALITY, ASTM A 57, GRADE 33.
2. NOMINAL OUTSIDE DIMENSIONS ARE AS FOLLOWS:
   - ALL 2" x 50 x 2" x 50: +/- 0.008
   - 2⅛" x 63: +/- 0.006
   - 2½" x 63: +/- 0.010
3. ALL FOUR SIDES ARE TO HAVE EQUIDISTANT SPACED ⅛" ID HOLES ON 1" CENTERS THE ENTIRE LENGTH OF THE TUBE.
4. STANDARD CORNER RADIUS SHALL BE ⅛" MAX.
5. THE FASTENERS TO BE SUPPLIED UNDER THIS SPECIFICATION SHALL BE ⅝" x 8, GRADE 5 UNC CORNER BOLTS WITH CADIUM OR ZINC PLATING. INSTALLATION OF SIGNS SHALL BE WITH ⅝" x 10 x 2½" x 63 BOLT WITH LOCKNUT AND WASHER.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" ID) MINIMUM 6" ID MINIMUM IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIAN FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL BE SET ON TOP OF THE SOIL.

DELAWARE DEPARTMENT OF TRANSPORTATION

BREAKAWAY SIGN POST AND PIN ASSEMBLY DETAILS

STANDARD NO. T-15 (2009) SHT. 1 OF 1

APPROVED SIGNATURE ON FILE 01/19/2010

RECOMMENDED SIGNATURE ON FILE 01/14/2020

04/28/2020
WOOD BARRICADE POST CHART

<table>
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<tr>
<th>ROADWAY WIDTH</th>
<th>NUMBER OF BARRICADES</th>
<th>TYPE OF POST</th>
<th>OUTSIDE OVERHAND</th>
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<tbody>
<tr>
<td>4&quot;-5&quot; (1.2m)</td>
<td>1</td>
<td>1-POST</td>
<td>2'-0&quot; (600mm)</td>
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<tr>
<td>6&quot;-5&quot; (1.5m)</td>
<td>1</td>
<td>2-POST</td>
<td>3'-0&quot; (900mm)</td>
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<tr>
<td>8&quot;-5&quot; (2.1m)</td>
<td>1</td>
<td>2-POST</td>
<td>4'-0&quot; (1200mm)</td>
</tr>
<tr>
<td>10&quot;-5&quot; (2.5m)</td>
<td>2</td>
<td>2-POST</td>
<td>5'-0&quot; (1500mm)</td>
</tr>
<tr>
<td>12&quot;-5&quot; (3.1m)</td>
<td>2</td>
<td>2-POST</td>
<td>6'-0&quot; (1800mm)</td>
</tr>
<tr>
<td>14&quot;-5&quot; (3.6m)</td>
<td>2</td>
<td>2-POST</td>
<td>7'-0&quot; (2100mm)</td>
</tr>
<tr>
<td>16&quot;-5&quot; (4.1m)</td>
<td>2</td>
<td>2-POST</td>
<td>8'-0&quot; (2400mm)</td>
</tr>
<tr>
<td>18&quot;-5&quot; (4.6m)</td>
<td>2</td>
<td>2-POST</td>
<td>9'-0&quot; (2700mm)</td>
</tr>
<tr>
<td>20&quot;-5&quot; (5.1m)</td>
<td>2</td>
<td>2-POST</td>
<td>10'-0&quot; (3000mm)</td>
</tr>
</tbody>
</table>

NOTES:
1. BARRICADES SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY FROM EDGE OF ROAD TO EDGE OF ROAD. IF NECESSARY, THE BARRICADE OVERHAND BEYOND THE OUTSIDE POSTS TYPICALLY 4'-0" (1200mm) MAY BE REDUCED TO THE "OUTSIDE OVERHAND" VALUE INDICATED IN THE TABLE ABOVE IF OBSTACLES ARE PRESENT BEYOND THE ROADWAY EDGE.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATING FLUORESCENT RED AND WHITE STRIPES, SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES. USING PRISMATIC, REFLECTIVE SHEETING. STRIPES SHALL SLOPE DOWNWARD TOWARDS THE CENTER OF THE CLOSURE.
3. ATTACH BARRICADE RAIL AND OBJECT MARKER TO THE 4" (100mm) x 4" (100mm) PRESSURE TREATED WOOD POST USING LAG BOLTS (2") (50mm) LONG, MINIMUM WITH WASHERS. TWO BOLTS PER RAIL PER POST SHALL BE REQUIRED.
4. ALL WOOD SHALL BE PRESSURE TREATED.
5. THE END OF ROAD OBJECT MARKER (IMC-31 CODE H-10) SHALL BE 18" (450mm) x 18" (450mm) WITH RED PRISMATIC, REFLECTIVE SHEETING.
6. TREATED WOOD POST SHALL BE PLACED IN PRE-DUG HOLE, BACKFILLED USING SUITABLE MATERIAL, AND TAMPALED THOROUGHLY TO PROVIDE A ROAD SUB-SURFACE CONDITION AROUND THE POST.
7. BARRICADE RAILS MAY BE CONSTRUCTED USING PLASTIC OR WOOD AND SHOULD NOT BE METAL.
8. LONGER WIDTH CLOSERS CAN BE ACCOMMODATED BY VARIOUS COMBINATIONS OF 2-POST AND 3-POST BARRICADES.

DELWARE
DEPARTMENT OF TRANSPORTATION

WOOD BARRICADE DETAIL

STANDARD NO. T-16 (2010)
SHT. 1 OF 1

APPROVED
SIGNATURE ON FILE 12/28/2010

RECOMMENDED
SIGNATURE ON FILE 12/27/2010

DATE 11/10/2010