MESSENGER WIRE
DETAILS I

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

4330

8/10/2017
SHT 1 OF 2

See Note 1 on Sheet 2.

Staple to pole at 5' intervals. Cover with wire moulding or place the wire in 1/2" SCH. 80 PVC from the ground line to 10' above the ground line.

Loop Detector Lead-In Cable

4 AWG Insulated Grounding Conductor

Ground Clamp, Type for Bare Messenger Wire

Ground Clamp, Type for Bare Messenger Wire

Locknut

Square Nuts

SUSPENSION CLAMP

4 AWG Insulated Bonding Jumper

3-Bolt Clamp, or Preformed Dead End May Be Used

Stacked Messenger Wire

Spinning or Lashing Rods

Lashing Wire Clamp

4 AWG Insulated Bonding Jumper

Through Messenger Wire

Grounding Bolt with Two Washers

Thimble

Thimble

(See Note 1 on Sheet 2)

Weatherhead

Continuation of Pole

(See Note 5)

Cable to Controller by Conduit Riser or by Weatherhead to the Inside of Pole

Continuation of Pole

Wood Pole

Steel Pole

Loop Detector Lead-In Attachment Details

Wood Pole

Front View

Side View

Cont. on Span
NOTES:

1. MESSENGER WIRE POLE ATTACHMENT SHALL BE BY A POLE CLAMP ON STEEL POLES AND BE A 5/8" THRU-BOLT (OR THIMBLE-EYE BOLT) WITH WASHERS ON WOOD POLES.

2. THE LOOP DETECTOR LEAD-IN CABLE SHALL HAVE A SAG BETWEEN 3% AND 5% OR MATCH EXISTING UTILITY LINES.

3. THE POWER SERVICE MESSENGER WIRE SHALL BE GROUNDED AT THE FIRST AND LAST POLES IN A CABLE RUN AND AT INTERVALS NOT TO EXCEED 1200 FEET. WHEN ATTACHED TO WOOD POLES, THE MESSENGER WIRE SHALL BE GROUNDED BY BONDING TO AN EXISTING GROUND ROD. THE MESSENGER WIRE SHALL BE BONDED TO GROUNDED STEEL POLES BY USE OF A 1/2" BOLT, DRILLED AND TAPPED INTO THE POLE.

4. THE MINIMUM 3-BOLT CLAMP SHALL BE 6 INCH LONG WITH 1/2" DIAMETER BOLTS. PREFORMED GUY GRIPS SHALL NOT BE USED TO ATTACH THE MESSENGER WIRE TO THE SIGNAL POLES. THEIR USE IS LIMITED TO BULLRING ATTACHMENTS.

5. FOR CONTINUATION OF POLE SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 4050.

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