

**Transmission & Distribution**  
**Material & Installation Specification**

**Copper Conductor Hand-Made Insulator Ties**

**I. Quantity**

The base bid shall include the quantities of the specified sizes of copper conductor hand-made insulator ties supplied and installed as hereinafter specified.

**II. Material**

**GENERAL**

A. Copper Conductor Hand-made Insulator Ties conforming to the Division of Power TDMIS-24 specification and approved shop drawings shall be installed as required.

**PRODUCT REQUIREMENTS**

A. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #6 solid soft drawn copper wire for conductors sizes up to #4/0 AWG.

B. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #4 solid soft drawn copper wire for conductor sizes larger than #4/0 AWG.

**WARRANTY**

N/A

**III. Installation**

A. As shown on drawing TDMIS-24

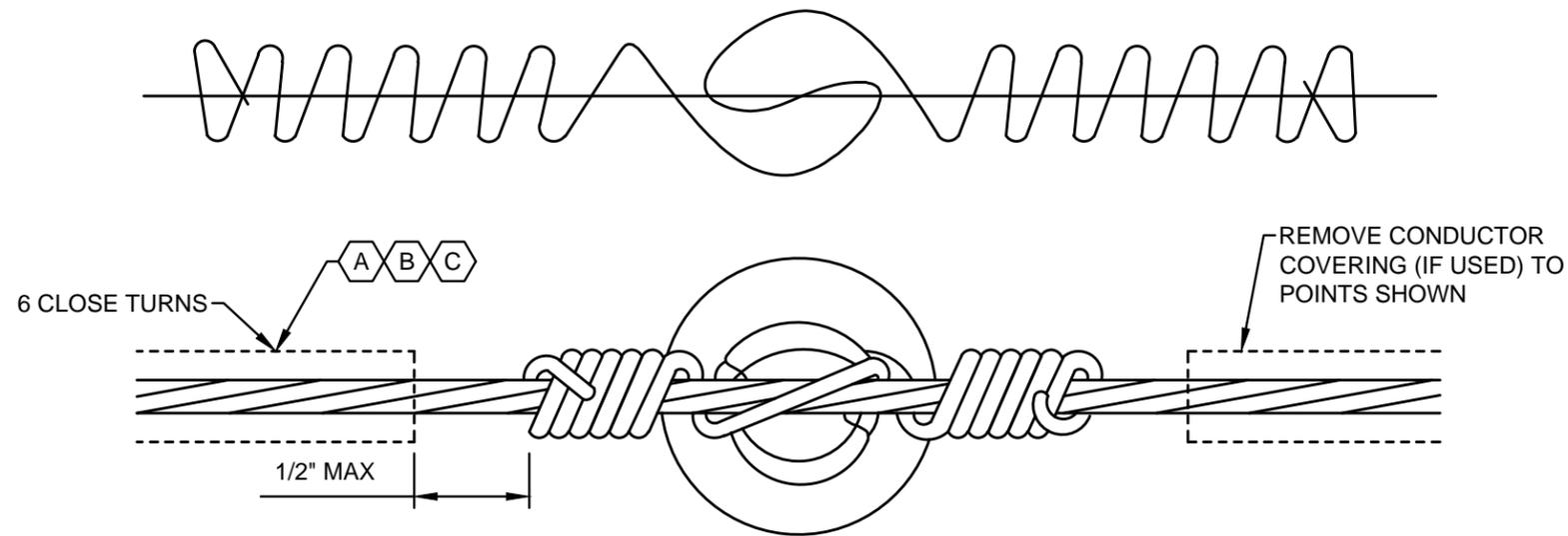
**IV. Method of measurement**

Shall be included with conductor module.

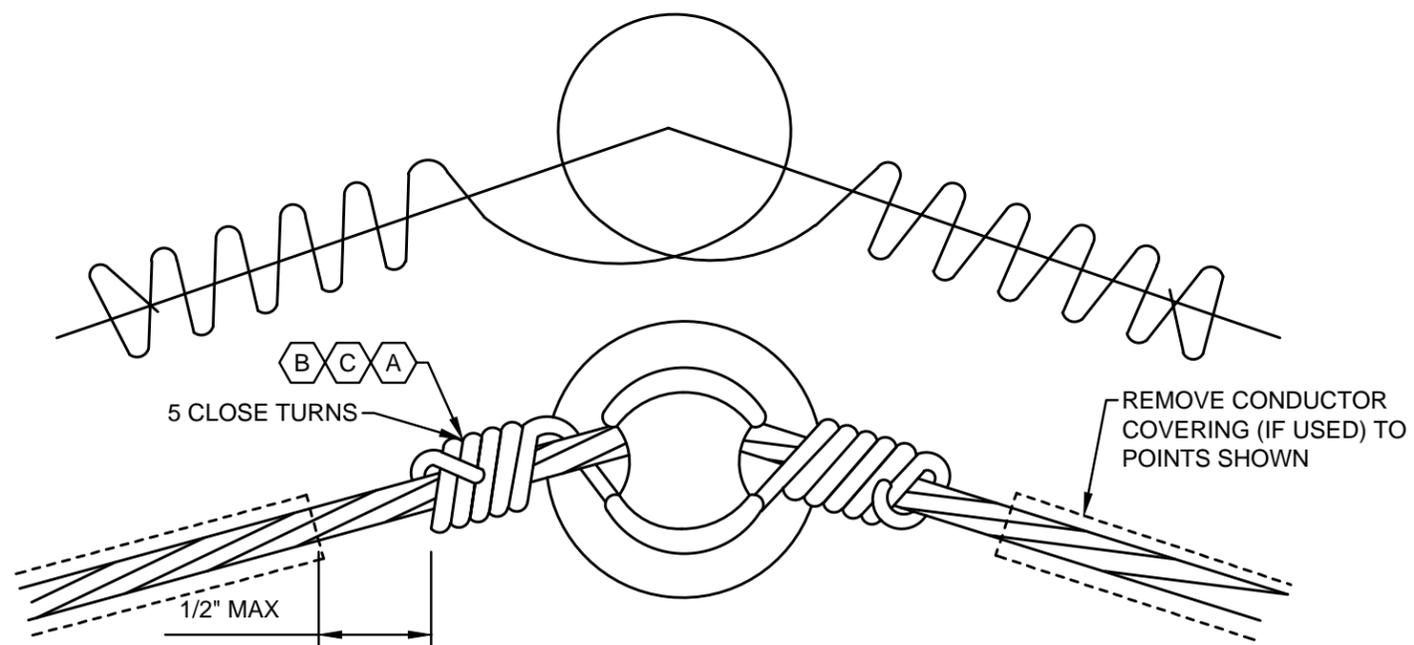
**V. Basis of payment**

There are no pay items in this TDMIS. Pay items shall be included with conductor module.

CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER COPPER CONDUCTOR HAND-MADE INSULATOR TIES		
DRAWN BY: AEC	DATE: 01/01/2018	<b>TDMIS-24</b>
APPROVED: R. SPRITE		
	SHEET 1 of 3	



**DETAIL 1**  
**TOP GROOVE TIE - SHORT SPAN**



**DETAIL 2**  
**SIDE GROOVE AND SPOOL TIE - SHORT SPAN**

**CODED NOTES:**

- A** THESE TIES ARE FOR USE IN PRIMARY LINE CONDUCTOR TIE LOCATIONS AND AT EQUIPMENT RISERS. THESE TIES MAY ALSO BE USED FOR SECONDARY AND NEUTRAL CONDUCTORS.
- B** CUT TIE WIRES CLOSE TO ENDS AND WRAP CLOSE TO LINE WIRE, TAP DOWN ON CONDUCTOR.
- C** TWO LENGTHS OF THE WIRE REQUIRED FOR DOUBLE INSULATOR SUPPORT.

**PRIMARY SECONDARY OR NEUTRAL CONDUCTORS - SHORT SPAN**

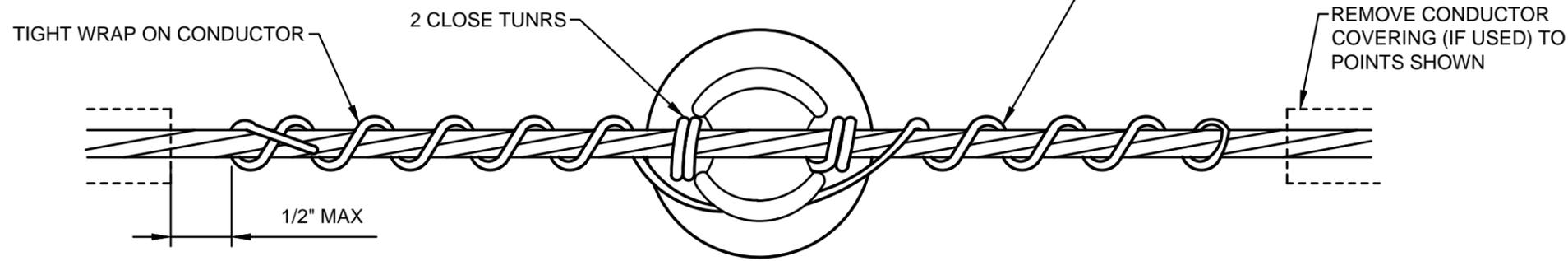
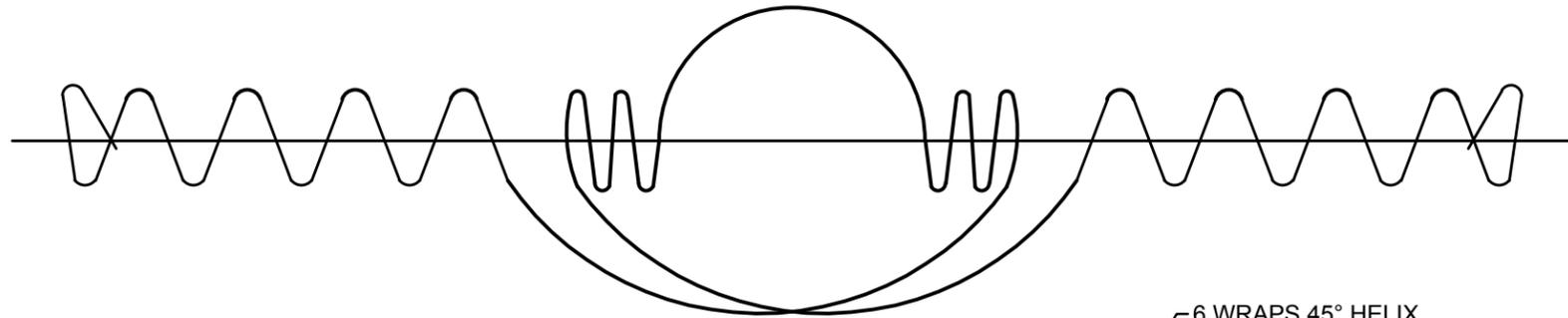
LINE CONDUCTOR	BARE COPPER SOFT DRAWN TIE WIRE		
	SIZE PART#	APPROX. LENGTH	
CU			BARE COND.
6/4 SOL		3'-0"	3'-7"
2		3'-7"	4'-2"
2/0		3'-10"	4'-5"
4/0		4'-6"	5'-3"

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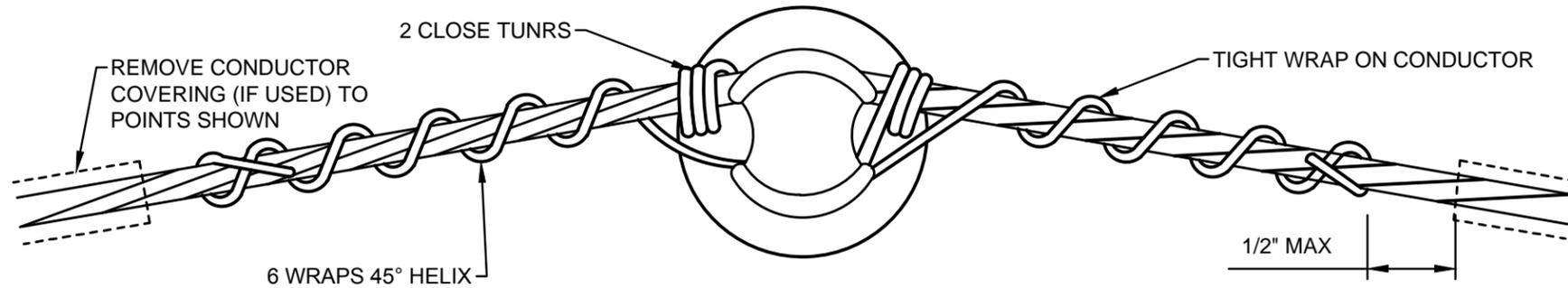
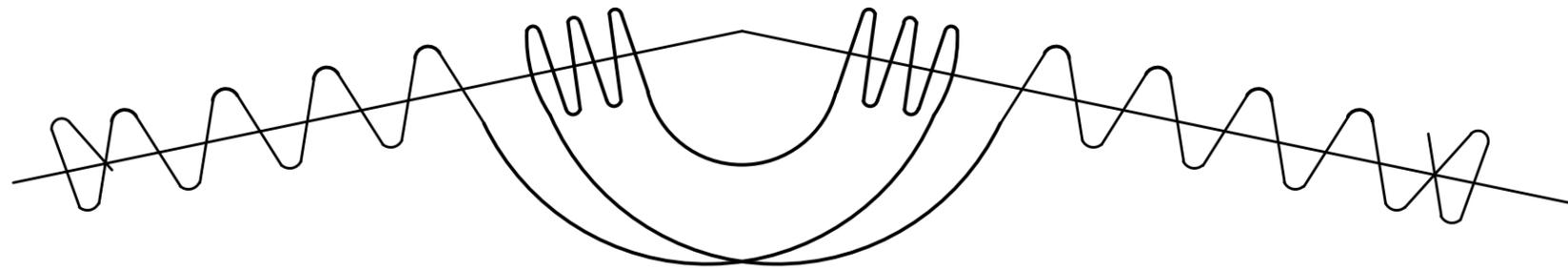
**COPPER CONDUCTOR  
HAND-MADE INSULATOR TIES**

DRAWN BY: AEC      DATE: 01/01/2018  
APPROVED: R. SPRITE  
SCALE: NTS      SHEET: 2 OF 3

**TDMIS-24**



**DETAIL 3**  
**TOP GROOVE TIE - LONG SPAN**



**DETAIL 4**  
**SIDE GROOVE TIE - LONG SPAN**

**PRIMARY SECONDARY OR NEUTRAL  
CONDUCTORS - SHORT SPAN**

LINE CONDUCTOR	BARE COPPER SOFT DRAWN TIE WIRE		
	SIZE PART#	APPROX. LENGTH	
		BARE COND.	COVERED COND.
CU			
6/4		4'-0"	4'-6"
2		4'-6"	5'-0"
2/0		5'-0"	5'-6"
4/0		5'-6"	6'-0"

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**COPPER CONDUCTOR  
HAND-MADE INSULATOR TIES**

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APPROVED: R. SPRITE  
SCALE: NTS      SHEET: 3 OF 3

**TDMIS-24**