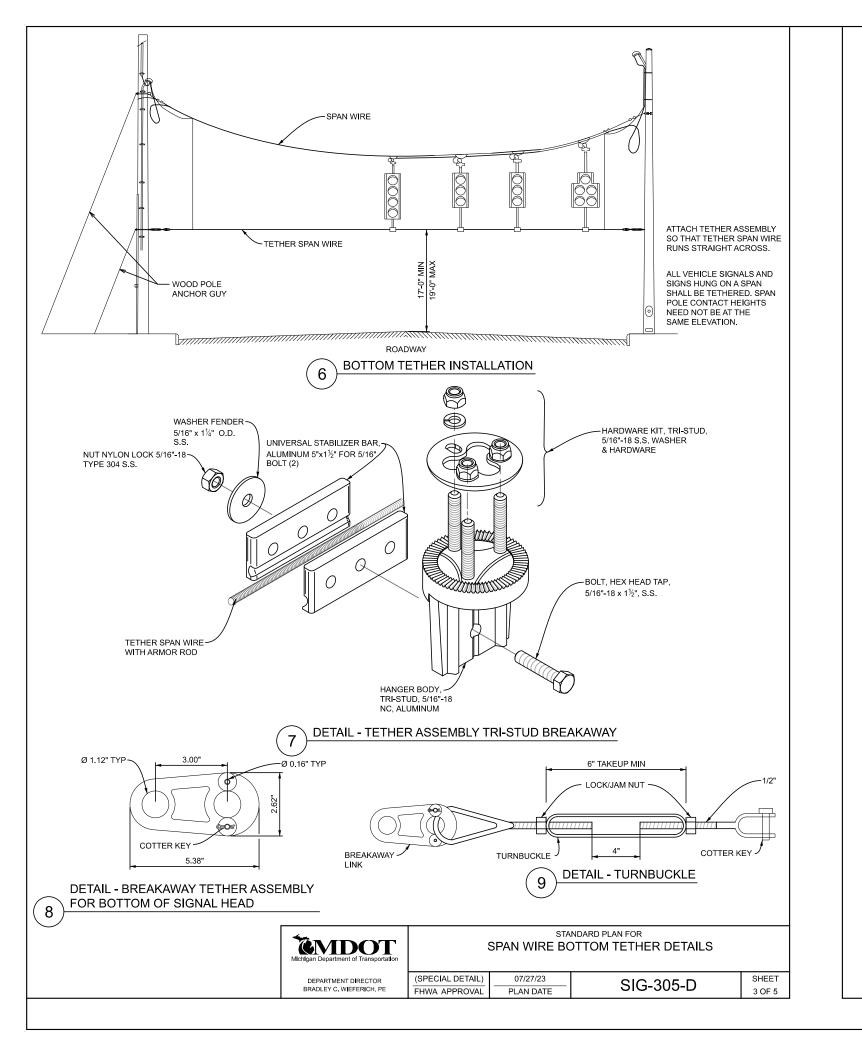
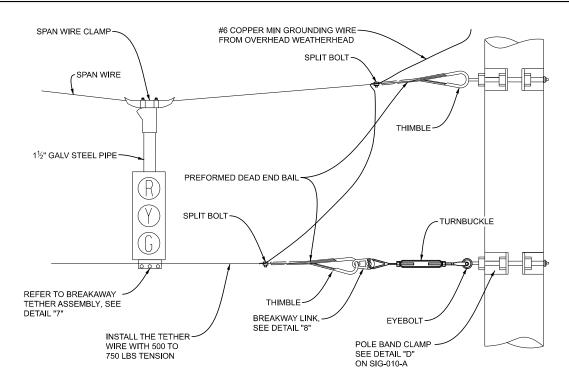


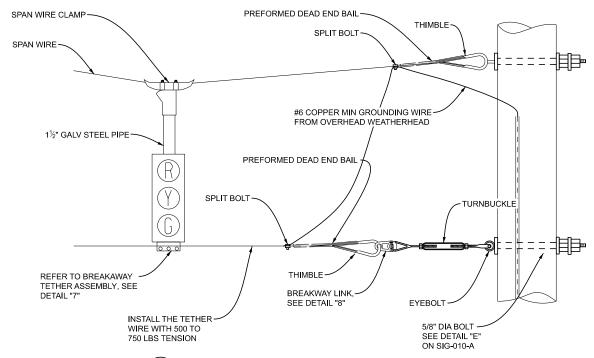


Michigan Department of Transportation	STANDARD PLAN FOR TOP TETHER CONNECTION DETAILS				
DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	(SPECIAL DETAIL)	07/27/23	SIG-305-D	SHEET	
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10) BOTTOM TETHER SPAN WIRE STEEL POLE CONNECTION



11) BOTTOM TETHER SPAN WIRE WOOD POLE CONNECTION

Michigan Department of Transportation

DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

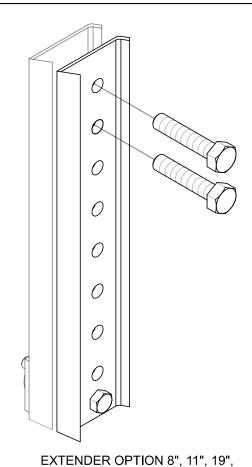
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STANDARD PLAN FOR BOTTOM TETHER CONNECTION DETAILS

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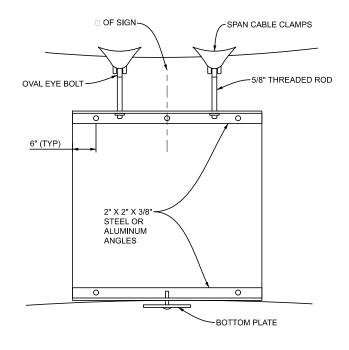
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24", & 72 (CUT TO LENGTH) 12

NOTES:

- BREAKAWAY LINK AND TURNBUCKLE ARE REQUIRED AT BOTH ENDS OF ALL BOTTOM TETHER SPANS. IF BREAKAWAY LINK BEGINS TO YIELD DURING INSTALLATION, IT SHALL BE REMOVED AND REPLACED. THE WIRE TENSION SHALL BE ADJUSTED TO MINIMIZE MOVEMENT OF SIGNAL HEADS IN HIGH WINDS. TYPICAL TENSION IS 500 TO 750 LBS.
- 2. INSTALL GROUND WIRE AT BOTH ENDS OF TOP AND BOTTOM TETHERING.
- IF SIGNAL ORIENTATION IS NOT PERPENDICULAR TO SPAN AND TETHER WIRE, THEN USE AN ANCHOR EXTENSION. CLAMP ASSEMBLY MUST BE ATTACHED TO THE FLAT SIDE OF THE EXTENDER BAR.
- GROUNDING WIRE ANCHOR HEIGHT TO THE SPAN WIRE IS ADJUSTED IN THE FIELD BEFORE BREAKAWAY LINK IS INSTALLED. GROUNDING WIRE LENGTH SHALL BE ADJUSTED SO THAT THE MINIMUM VERTICAL CLEARANCE OF THE SAGGING TETHER WIRE ABOVE THE PAVEMENT WITHOUT THE BREAKAWAY LINK INSTALLED IS AT LEAST 14'. GROUNDING WIRE SHALL CONTAIN ENOUGH SLACK FOR HEAD TO SWAY IN HIGH WINDS. GROUNDING WIRE SHALL BE ATTACHED TO THE SPAN WIRE USING A TINNED COPPER SPLIT
- TRAFFIC SIGNAL HOUSING REINFORCEMENT PLATES ARE REQUIRED WHEN TETHERING.
 - TOP TETHERING REQUIRES REINFORCEMENT PLATES AT THE TOP OF THE POLYCARBONATE HOUSING. (2 PLATES TOTAL)
 - BOTTOM TETHERING REQUIRES REINFORCEMENT PLATES AT THE TOP AND
 - BOTTOM OF POLYCARBONATE HOUSING. (4 PLATES TOTAL)
 BOTTOM TETHERING 5-SECTION HEADS REQUIRES REINFORCEMENT PLATES ON THE TOP AND BOTTOM OF THE POLYCARBONATE HOUSING (12 TOTAL) AND AN ALUMINUM TRI-STUD UPPER ARM ASSEMBLY IN PLACE OF THE BOTTOM BRACKET.
 - IF POLYCARBONATE HOUSING CONNECTS TO AN ALUMINUM CASE SIGN, REINFORCEMENT PLATES MUST BE USED AT THE CONNECTION.



DETAIL - OVERHEAD LANE ASSIGNMENT SIGN CONNECTION 13

NOTES:

- ALUMINUM ANGLES SHALL BE USED FOR ALUMINUM SIGNS (TYPE III).
- 2. STEEL OR ALUMINUM ANGLES MAY BE USED ON PLYWOOD SIGNS (TYPE II).

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STANDARD PLAN FOR EXTENDER OPTION AND OVERHEAD LANE ASSIGNMENT SIGN CONNECTION DETAILS

DEPARTMENT DIRECTOR

(SPECIAL DETAIL) FHWA APPROVAL

07/27/23 PLAN DATE SIG-305-D

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MDOT

STANDARD PLAN FOR

DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE

(SPECIAL DETAIL) FHWA APPROVAL

07/27/23 PLAN DATE

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