

CHAPTER 24 – SIGNS

SIGNS

The contractor must furnish and install signs on mast arms, mast arm pole shafts, pedestal shafts, or sign posts when indicated in contract documents. All signs must be in accordance with MnDOT Standard Specifications for Construction (Spec Book) 2564. Additional guidance documents are used for sign installation, including the Minnesota Manual on Uniform Traffic Control Devices (MN MUTCD) and the Standard Signs Manual. Additional detail on these resource documents is presented below.

24.1 Signs Guidance Documents

When a new traffic signal is installed, or if an existing signal is revised, the existing signs may have to be changed and may have requirements specified in the contract documents. The district traffic office must be notified at least two weeks prior to activating the traffic control signal system to determine or verify the exact location of the signs. All sign face, sign base, and sign legend material must be as indicated in the contract documents.

The following documents offer guidance on signage standards.

24.1.1 MN MUTCD

The current edition of the MN MUTCD provides the legal standards for the design, selection and use of signs. The district traffic engineer must approve all sign installations to ensure that the applicable standards and statutes are followed.



Figure 24-1: MN MUTCD

24.1.2 STANDARD SIGNS MANUAL

Traffic control signal system mast arm mounted signs have additional requirements that are included within the Standard Signs Manual. See Detail 105A.



Figure 24-2: Standard Signs Manual

24.2 Installation

All sign installations must be done to the satisfaction of the engineer. Signs installed in conjunction with a traffic control signal are mounted in one of four ways:

24.2.1 Mast Arm Mounted Signs

Mast arm mounted signs use mounting bracket assemblies as detailed on Standard Sign Detail 105A of the Standard Signs Manual. A copy of this detail is included in the Appendix of the Field Guide.

Two stainless steel banding straps each with stainless steel banding buckle must be single wrapped around the mast arm, clipped, and tightened independently in accordance with the manufacturer's instructions.



Figure 24-3: Mast Arm Mount

24.2.2 MAST ARM POLE SHAFT MOUNTED SIGNS

Mast arm pole shaft mounted signs shall be mounted as specified in the contract documents. Pole mounted signs must be mounted at a height of no less than seven feet from the finished grade at the pole foundation.



Figure 24-4: Mast Arm Pole Shaft Mount



Figure 24-5: Minimum Sign Mounting Height

24.2.3 PEDESTAL MOUNTED SIGNS

Pedestal mounted signs shall be mounted as detailed in the contract documents.



Figure 24-6: Pedestal Mount

24.2.4 POST MOUNTED SIGNS

Post mounted signs are mounted on flanged channel sign posts of a specific weight per foot of length. Refer to the contract documents for installation and mounting details.



Figure 24-7: Post Mount

24.2.6 WARNING STICKERS

According to Standard Specification 2564.3H, signs or sign panels being furnished and installed, require that the contractor affix a Department furnished warning sticker to the backside of each sign panel directly above the fabrication sticker. Warning stickers are available at the Department's district office specified in the contract. The district's contact person and phone number are specified in the contract. Thirty calendar days advance notice shall be given prior to picking up the stickers.

The contractor shall install Department furnished warning stickers on new Type C and D sign panels in accordance with MnDOT 2564.3H. The contractor shall give 30 days' advance notice to the MnDOT maintenance area sign supervisor prior to picking up the Department furnished warning stickers.



Figure 24-8: Warning Sticker

24.3 Chapter 24 Resources

- MnDOT Standard Specifications for Construction 2564
- Minnesota Manual on Uniform Traffic Control Devices
- Standard Signs Manual
- Temporary Traffic Control Zone Layouts Field Manual