

Signing Plan Design - At Grade Intersections

TEM Chapter 6-5.0 Application Guidelines - Regulatory Signs

Application Guidelines - Regulatory Signs

➤ 6-5.01 Purpose

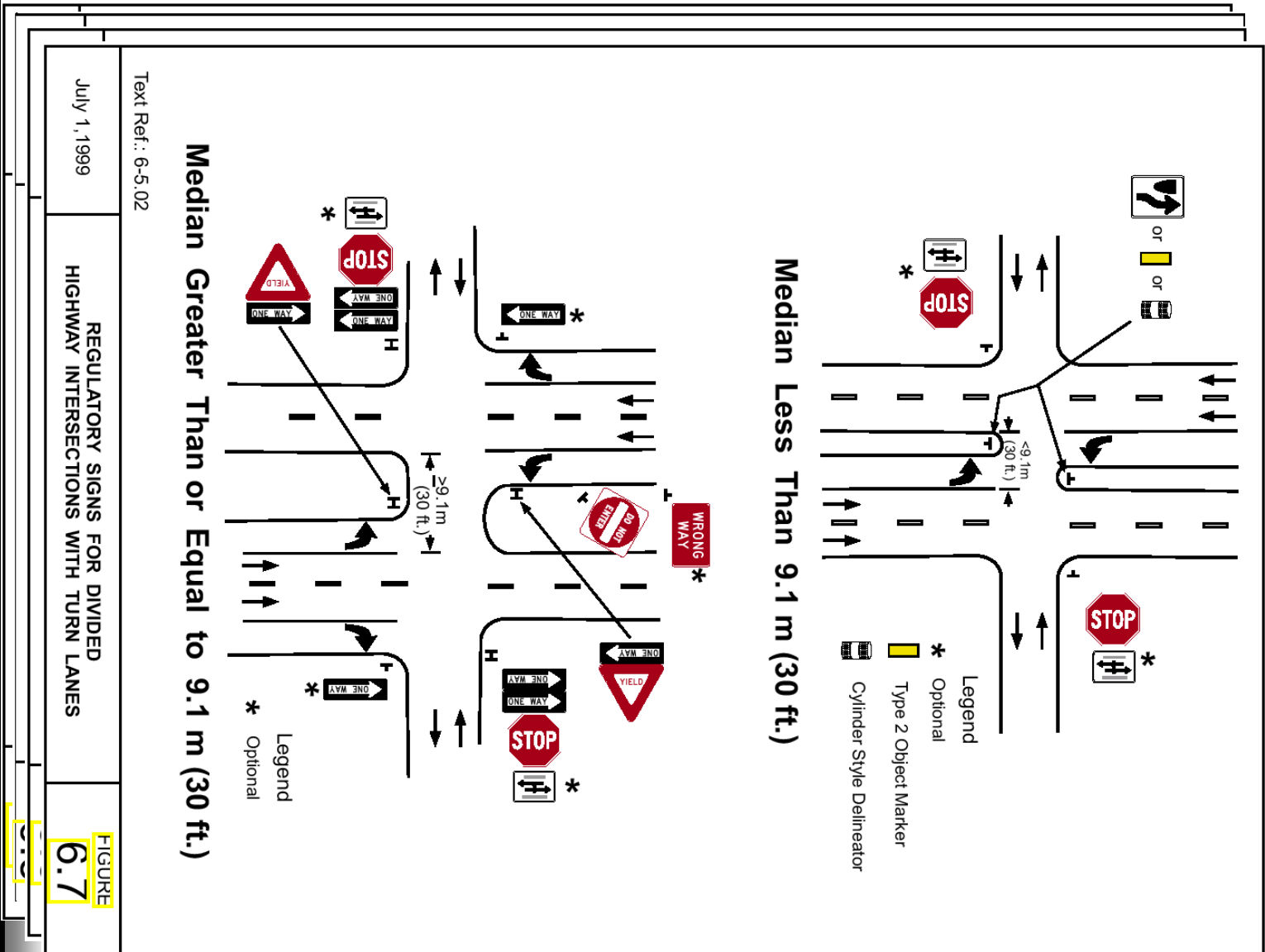
- Generally, the only regulatory sign applications that are discussed in this Section are those which:
 - 1. Are not specifically addressed in the MN MUTCD; or
 - 2. Provide additional guidance to that given in the MN MUTCD on application, location, and usage of certain types of regulatory signs; or
 - 3. Establish procedures relating to engineering and traffic investigation requirements for certain regulatory signs.

Application Guidelines - Regulatory Signs

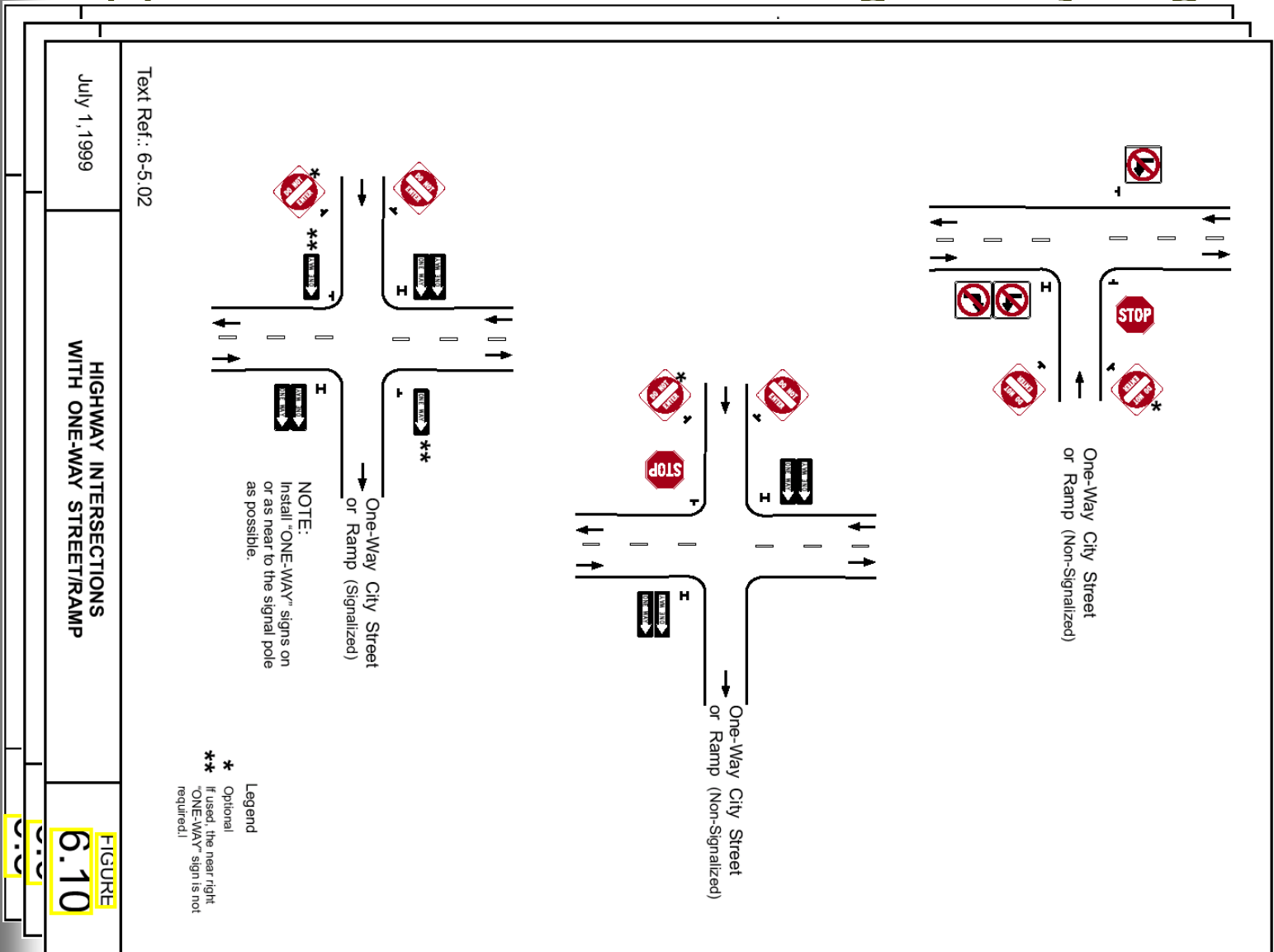
➤ 6-5.02 Typical Regulatory Sign Placement at Divided Highway Intersections at Grade

- Figures 6.4 through 6.10 (TEM pages 6-73 through 6-79) show typical signing arrangements for the various intersection geometric elements encountered at divided trunk highway intersections at grade.
- Review Figures 6.4 through 6.10

Application Guidelines - Regulatory Signs



Application Guidelines - Regulatory Signs



Application Guidelines - Regulatory Signs

➤ **6-5.02.01 STOP Signs**

- This section clarifies the recommended use and minimum size of STOP signs on Mn/DOT trunk highways.
 - 1. Primary Location
 - a. 750 x 750 mm (30" x 30")
 - Install on all two-lane, two-way city, township, or county roads

Application Guidelines - Regulatory Signs

➤ **6-5.02.01 STOP Signs**

- b. 900 x 900 mm (36" x 36")
 - Install at the following locations:
 - 1) on all freeway/expressway ramps,
 - 2) on trunk highways with highway speeds less than 45 mph, and
 - 3) on any city, township, or county road with more than one through lane of approach to an intersection.
- c. 1200 x 1200 mm (48" x 48")
 - Install at all trunk highway to trunk highway intersections with highway speeds of 45 mph or more.

Application Guidelines - Regulatory Signs

➤ **6-5.02.01 STOP Signs**

- 2. Additional Location (left side)
 - Same size as stop sign on the right side
 - Install at any public road with more than one through lane of approach to an intersection based on a traffic engineering study. Justification may be based on unusual roadway geometrics, sight restrictions, or crash problems.

Application Guidelines - Regulatory Signs

➤ **6-5.02.02 ONE WAY Sign (R6-1)**

- This section clarifies the recommended use and minimum size of ONE WAY signs (R6-1) on Mn/DOT trunk highways.

- 1. 900 x 300 mm (36" x 12")

The standard size for most applications. Install it above the 750 x 750 mm (30" x 30") and the 900 x 900 mm (36" x 36") STOP signs and either independently or on traffic signal poles or pedestals at signalized intersections.



Application Guidelines - Regulatory Signs

➤ **6-5.02.02 ONE WAY Sign (R6-1)**

- 2. 1200 x 450 mm (48" x 18")

Install it above 1200 x 1200 mm (48" x 48")

STOP signs and at other locations as directed by the district traffic engineer.

Application Guidelines - Regulatory Signs

➤ 6-5.03 Speed Limit Signing

- Speed limit signs shall be placed at the terminal points described in the speed limit authorization.
- When entering a lower speed zone, the first speed limit sign shall be 600 x 750 mm (24" x 30") or larger.
- Supplemental speed limit signs for lower speed zones may be placed at intervals approximately equal to 60 seconds of travel time at the posted speed.

Application Guidelines - Regulatory Signs

➤ 6-5.03 Speed Limit Signing

- Signs may be spaced closer in urban areas due to numerous access points. Signs may be further apart in rural areas where the character of the roadway remains constant with fewer access points.
- Signs should always be posted near junctions that are major traffic generators.
- Placement should always be in the most advantageous locations to promote driver compliance and prevent speed traps.

Application Guidelines - Regulatory Signs

➤ 6-5.03 Speed Limit Signing



- It shall be Mn/DOT's practice to use the BEGIN SPEED LIMIT XX XX MILE (2002 Standard Signs Summary R2-X1) sign to give advance notice of reduced speed limits.
- Note change from TEM page 6-17
- This sign shall be used if the reduction in speed limits between two zones is 15 mph or more. This sign may be used for a difference of 10 mph or less based on engineering judgement.

Application Guidelines - Regulatory Signs

➤ 6-5.03 Speed Limit Signing

- The BEGIN SPEED LIMIT XX XX MILE sign should be placed approximately 300 m (1000 feet) in advance of the first speed limit sign.
- Geometrics, grade, or sign clutter may impact the motorists' speed reduction. Engineering judgment should be used and the sign may be placed up to 530 m (1700 feet) in advance.

Application Guidelines - Regulatory Signs

➤ 6-5.03 Speed Limit Signing

- The BEGIN SPEED LIMIT XX XX MILE sign size as stated in the 2002 Standard Signs Summary is as follows:
 - Conventional highway = 36" x 66"
 - Expressway = 48" x 84"
- The END (____) MILE SPEED (R2-6) sign shall not be used on the trunk highway system.