



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

## Design Memorandum No. 07-10 Technical Advisory

July 26, 2007

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Richard L. VanCleave  
Richard L. VanCleave  
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Office of Roadway Engineering

**SUBJECT:** Worksite Increased-Penalty Signs

**EFFECTIVE:** November 14, 2007, Letting

House Enrolled Act 1623 requires signs for each roadway work zone which inform the motorist of increased penalties for moving violations. This requirement became effective on July 1.

The contract documents should include the proper plan details, quantities, and pay items for the signs. Recurring Plan Details 801-R-542d, 801-R-543d, and 801-R-544d, attached hereto, provide details.

The XG20-7 sign, 78 in. x 42 in. (2000 mm x 1050 mm), should be specified for a rural area with sufficient right of way to accommodate the sign. It should be specified for an urban area with a posted speed limit of 40 mph or higher, and sufficient right of way to accommodate the sign.

The XG20-7a sign, 60 in. x 36 in. (1500 mm x 900 mm), should be specified for an urban area with a posted speed limit of 35 mph or lower, under one of the conditions as follows:

1. the existing conditions outside the edge of pavement make installation of driven posts impractical, or

2. the width of the right of way outside of the edge of pavement is not sufficient to accommodate the XG20-7 sign.

The XG20-7b and XG20-7c signs, both 48 in. x 48 in. (1200 mm x 1200 mm), should be specified to be used in series with each other, and should be used under one of the conditions as follows:

1. the project is in a rural area where the right-of-way width outside of the edge of pavement is not sufficient to accommodate the XG20-7 sign; or
2. the project is a moving operation where construction signs are set and removed each day to accommodate the changing location of the work.

The following guidelines should also be used to determine the location and quantity of the signs.

1. Signs are required for a project in which traffic will travel through an active construction zone marked by “Road Construction Ahead” and “End Construction” signs.
2. An XG20-7 or XG20-7a sign, where warranted, should be placed in advance of the first “Road Construction Ahead” sign for each direction of travel on the project mainline. The advance distance should be 500 ft (150 m) in a rural area, or 100 ft (30 m) in an urban area.
3. XG20-7c and XG20-7b signs, where warranted, should be placed in advance of the first “Road Construction Ahead” sign for each direction of travel on the project mainline. The advance distance for the XG20-7c sign should be 1000 ft (300 m) in a rural area, or 200 ft (60 m) in an urban area. The advance distance for the XG20-7b sign should be 500 ft (150 m) in a rural area, or 100 ft (30 m) in an urban area.
4. Signs should not be placed on side roads or ramps leading into a construction zone.
5. Signs are not required if the active construction zone is completely isolated from live traffic, i.e., a full road closure with a detour, or construction along a new alignment.

The general location of the signs should be indicated as for any other construction sign shown on the traffic-maintenance plan.

The pay item is 801-03290, Construction Sign, Type C. The pay unit is each.

The appropriate recurring plan detail should be incorporated into the contract documents. Beginning with the September 2008 letting, the recurring plan details will be incorporated into the INDOT *Standard Drawings*, so will then no longer be required to be called for in a specific contract.

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Attachments

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