HD-1201

KYFTG NUG	Chapter SIGNING & PAVEMENT MARKINGS
Design	Subject Signing

GENERAL: Plans will be prepared for new sign installations and pavement markings for interstates, parkways, and other high-volume, limited-access roads that include interchanges. When applicable, signing plans will also be included for the portion of all crossroads affected by new construction and/or improvements. Striping plans will be developed for projects that deviate from the exhibits in the *Manual on Uniform Traffic Control Devices (MUTCD)* and the *Traffic Operations Manual*.

Signing plans may also be required on other projects. Central Office Highway Design should be consulted when the project team believes signing plans are needed.

Signing and marking shall be performed in accordance with the *Manual* on Uniform Traffic Control Devices (MUTCD) and the Traffic Operations Manual.

SIGNING PLANS: The project manager should contact the Division of Highway Design Branch Manager for Roadway Design Engineering to determine whether the signing plans for the project can be prepared by the Division of Highway Design or should be prepared by the consultant and reviewed by the Division of Highway Design. If the signing plans are to be developed by the consultant, a preliminary meeting with the Division of Highway Design will be held to determine the necessary signing involved in the project. The decision to utilize the consultant should be made prior to negotiating Phase II design.

Signing plans shall be completed to a conceptual stage in time for delivery to the project team prior to the joint inspection in order that right-of-way and utility needs may be accommodated. All signing plans prepared by consultants will have two reviews—conceptual plans prior to joint inspection and final plans prior to the project letting. The final signing plans shall be submitted with check prints for roadway plan review.

Completed signing plans will contain the necessary quantities sheets, standard detail sheets, plan sheets, and sign detail sheets. Panel signs shall be numbered P-1 through P-XX, and Sheeting signs shall be numbered S-1 through S-XX (see **Exhibits 1200-01, 1200-02, and 1200-03).**



- **SIGN LOCATION:** The locations of signs shall comply with the Manual on Uniform Traffic Control Devices, Roadside Design Guide, and the Traffic Operations Manual.
- **SIGN SUPPORTS:** All sign supports that must be located in the clear zone shall be of "breakaway" design or shall be protected by crashworthy barriers. When possible, coordinate the placement of signs with the guardrail already determined to be needed for the project. The design for these "breakaway" supports or crashworthy barriers shall comply with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals* and the *Roadside Design Guide*. New installations of these "breakaway" design supports shall be omnidirectional breakaway and be based on the AASHTO 2001 wind design load recommendations.

The structural design of sign supports shall be coordinated with the Division of Structural Design through the signing function of the Division of Highway Design.

SIGN REPAIR &

REPLACEMENT: Maintenance of panel signs will be administered through the Division of Highway Design. Work orders (including plans and/or sign design sheets when needed) will be issued by the Division of Highway Design upon receipt of a request from the District Traffic Engineer. This request shall include all pertinent information and photographs of the sign, supports, and existing bases (See Exhibit 1200-04). When the work is completed, the District Traffic Engineer shall inspect the repairs/replacements and advise the Division of Highway Design so that any invoices may be processed.

ADDITIONAL OR SUPPLEMENTAL SIGNS:

When requested by the Division of Traffic Operations, plans for additional or supplemental signing will be prepared by the Division of Highway Design or by the project consultant, when applicable.

PLANS FOR PAVEMENT MARKINGS:

Plans for pavement markings (including striping) shall be developed by the project team and/or the consultant for purposes of quantities. In instances where markings are considered to be complex, the Division of Highway Design will assist and review the plans or, when requested, may provide the necessary plans. It will be the responsibility of the project manager to recommend the appropriate roles of the Division of Highway Design and the consultant, when applicable. Plans shall be delivered to the project team prior to the joint inspection to allow a concurrent review of pavement marking and signing plans.



PAVEMENT MARKERS:

Raised pavement markers will typically not be shown on the striping plans but will be designated by note on the plans. However, for projects or portions of projects where the pavement markers' placement is complex, the Division of Highway Design will review, assist, or develop plans. The Type V markers, and the use of Type IV-A markers on bridge decks, shall be included on projects for roads that are identified on the Raised Pavement Marker System as defined by the *Traffic Operations Manual*.

For those projects not identified on the Raised Pavement Marker System and where the project team has identified the need for markers, the project team will forward the request to the Division of Traffic Operations to add that section of roadway to the Raised Pavement Marker System. Pavement markers shall also be included on typical sections with flush medians or a continuous left-turn lane/two-way left-turn lane (CLTL/TWLTL). Proper spacing and arrangement shall adhere to the KYTC Standard Drawings for permanently installed pavement markers.







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EXHIBIT 1200-02

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		SIGN MA	NTENANCE CHECKLIST			
District Co	unty	Ro	ad Name			
Mile Point		r Location De	escription			
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sign moosage anaron	Logona	Dra	w Sketch(s) of sign here.			
Sign Dimensions	Horizontal	Vertical	Letter Sizes & Series (if kno	own)		
B 14						

Panel 1		
Panel 2		
Exit Panel		
Other Panels		

Sign Condition and Damage(s)

Beam Descriptions									
Material Flange Width Distance From Ground To Top									
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	Beam Condition and/or Damage	Concrete Base & Stud Condition						
(ie. Twiste	d / Bent / Broken / Missing) (Label each beam on pictures)	(Chipped / Cracked / Below Ground)						
Beam #1								
Beam #2								
Beam #3								

Does the sign and concrete bases require complete replacement?

Is there an acceptable location within 10 - 25 ft. of it's current location?

Attach Pictures - Sign Front & Back Beams - Conc. Bases - Surrounding Area / Close ups of all damaged areas