### THIS MEMO IS EXPIRED

November 6, 2000

### MEMORANDUM NO. 31-00

### TO: DISTRICT CONSTRUCTION ENGINEERS

- **FROM:** Greg Xanders, State Construction Engineer
- **COPIES:** Freddie Simmons, Bill Albaugh, Billy Hattaway, Sharon Holmes, Ed Rice, Jack Brown, John Chiarelli, District Production Directors, MOTC Members

### SUBJECT: MOTORIST AWARENESS SYSTEM (MAS) GUIDELINES FOR IMPLEMENTATION BY CONSTRUCTION

The purpose of a Motorist Awareness System (MAS) is to increase the motorist awareness of the presence of active work and provide emphasis on reduced speed limits in the active work area. A MAS is created by using a combination of several different traffic control elements to draw attention to the legal speed and inform the motorist of his vehicle speed. Descriptions of some MAS devices are provided below. *Index 670, Roadway and Traffic Design Standards*, provides details on the most effective combination and placement of MAS traffic control devices. This Index has been issued as an Interim Index and can be found on the Department's Roadway Design web site (*see attached*).

Prior to adding MAS to a project during construction the Project Engineer shall request approval from the District Construction Engineer. If approved, notify David Sumner, State Construction Office by E-Mail of the project number where the MAS will be used .

The MAS is new and its effectiveness is still being evaluated to determine future use on Department projects. The MAS setup shown on Interim Index 670 has been approved for use on rural high-speed high AADT highways, which have lane closures with no more than two lanes remaining open to traffic, and when the active work zone is less than one mile in length

If the recommended guidelines stated above are met and if the MAS setup complies with Index 670, minor documentation on the added pay items is all that will be required.

# If the standard drawing for the MAS is changed for the project, approval must be requested in accordance with the *Construction Project Administration Manual (CPAM)*, *Section 5.7*.

The following should be included:

- Sketch of the modified MAS set up must be provided
- Speed study prior to setting up the MAS
- Speed study after the MAS has been set up
- The results of the speed study
- Cost of MAS devices
- Department and Contractor agree that the cost of the documentation, speed study and devices will be shared equally

Note: Speed study shall be in accordance with the Departments Manual on Uniform Traffic Studies, Chapter 13 Vehicle Spot Speed Study Option 1 (Vehicle Spot Speed Study Form No 750-010-03 is available in the Department's Forms Library).

If a speed reduction is documented on several projects, a standard will be developed for the modified MAS setup. Projects where the MAS has been approved for use will be monitored to assess the effectiveness of the MAS and to identify needed improvements. Once the Department has completed its evaluation on the effectiveness of the MAS setup, standards, specifications and pay items, they will be made available for statewide use.

## The following is a list of some of the devices that are used as part of a Motorist Awareness System.

#### Portable Regulatory Signs (PRS) Pay Item No. 900-102-1

The purpose of this device is to highlight the regulatory speed for the work zone. A portable regulatory sign is a portable trailer that has the regulatory speed sign mounted with flashing lights on each side of the sign. The lights are used to draw the driver's attention to the regulatory speed.

### Radar Speed Display Unit (RSDU)Pay Item No. 900-102-2

The purpose of this device is to display the motorist's work zone speed. A radar speed display unit is a portable trailer that displays the speed of approaching motorists on a LED display panel. The radar mounted on the unit detects the speed. A regulatory sign with the posted speed is mounted above the LED display panel. The unit is fitted with a device, which counts the number of vehicles passing the Radar Speed Display Unit. The counter device is capable of: Digital readout of the number of vehicles passing the radar speed display unit.

Digital readout of the number of vehicles exceeding the speed limit shown on the radar speed display unit.

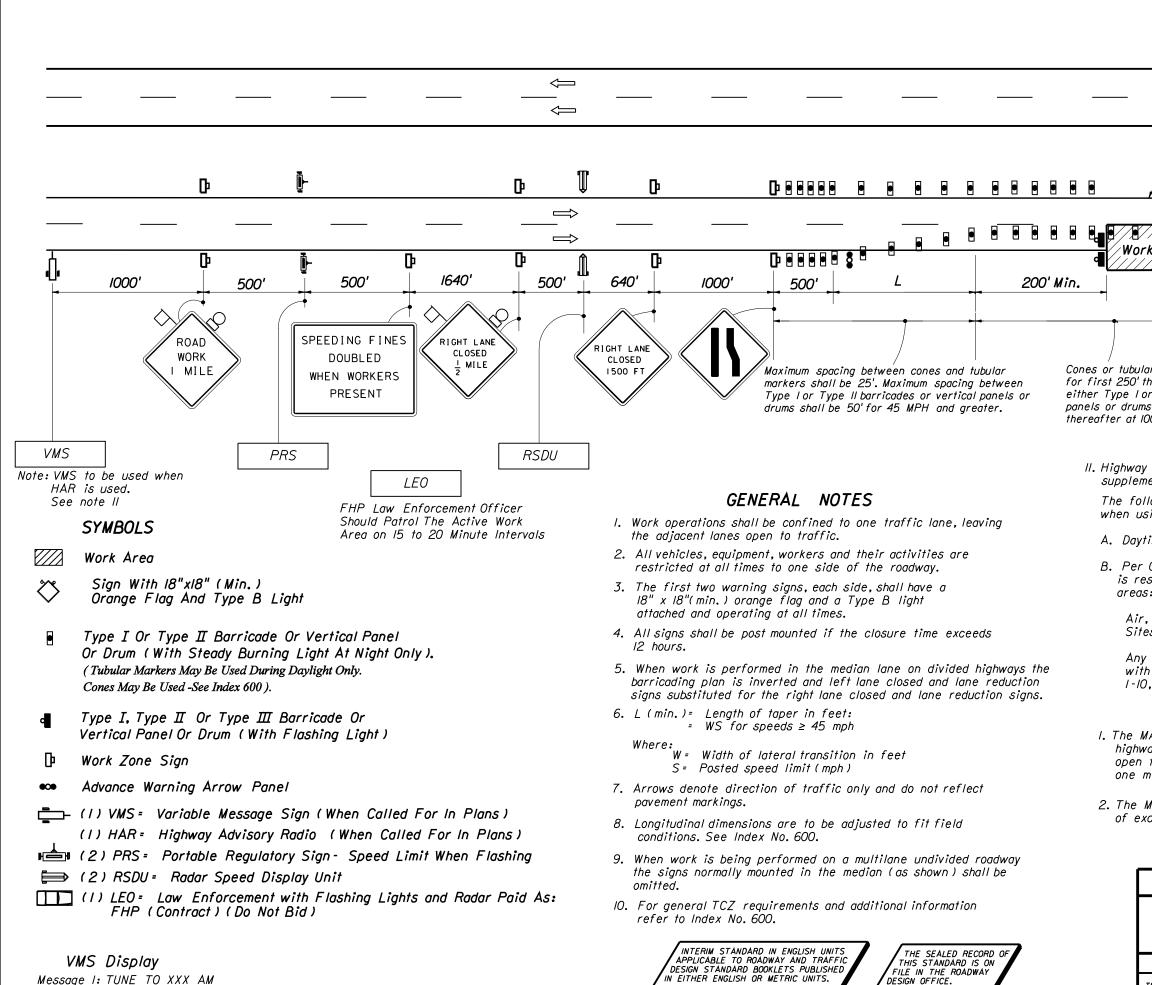
The device can be set that only speeds greater than the work zone speed are displayed.

### Law Enforcement Officer (LEO) (Hireback Officers)

The use of active officers on a random basis, in conjunction with the other MAS devices, has proven to be effective. If a LEO is deemed necessary, payment for this service will be made through established procedure between this Department and the Department of Safety.

If you have any questions regarding the MAS System, please contact David Sumner at SC 994-4198

GX/cc Attachment



Message 2: FOR CONST INFO

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Advisory Radio may be considered as a					
nent to the Motorist Awareness System.					
llowing operating parameters must be adhered to sing an Highway Advisory Radio:					
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CFR 90.242 (a)(5) the transmitting site of the HAR					
estricted to the immediate vicinity of the folowing specified					
5:					
, Train, Bus Transportation Terminals, Public Parks, Historical					
es, Bridges and Tunnels.					
Intersection of the following Federal Interstate Highway					
h any other Interstate, Federal, State, or Local Highway; 1-4,					
), 1-75, 1-275, 1-95	ana 1-295				
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<i>Conditions</i> IAS is intended for use on rural high-speed high volume					
yays, which have lane closures with no more than two lanes					
to traffic, and when the active work zone is less than					
mile in length.					
MAS should be considered on projects where the likelihood					
cessive speeds in the work area needs to be controlled.					
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION					
ROAD DESIGN					
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