

**Sequence of Construction**

The Maintenance of Traffic plans are set up so traffic will not travel on the planed pavement, but rather the existing surface, the proposed intermediate course or the proposed surface course.

The Maintenance of Traffic details for Sta. 572+50 to Sta. 678+00 are shown on Sheet 12. Phases 1 and 3 are long term closures of the right lanes to plane the existing asphalt, perform pavement repairs, adjust/reconstruct catch basins, place the intermediate course and temporary pavement markings.

Phases 2 and 4 are short term lane closures provided to plane the existing asphalt, perform pavement repairs, place the intermediate course and temporary pavement markings in the left lanes. To eliminate a dropoff greater than 1.5" between lanes, the contractor shall only remove the asphalt overlay to a point where the intermediate course can be placed within the same day. After work is completed for the day in Phase 2, traffic shall be returned to the Phase 1 configuration outside of the permitted closure times listed. Similarly, after work is completed for the day in Phase 4, traffic shall be returned to the Phase 3 configuration outside of the permitted closure times listed.

Phases 5 and 6 are short term closures that will allow the contractor to place the surface course and pavement markings. Traffic shall be returned to the normal configuration outside of the permitted closure times listed.

The Maintenance of Traffic for Sta. 678+00 to Sta 692+00 +/- (at County Line Rd.) shall consist of short-term lane closures. The contractor shall complete the following work within this section in 7 days: plane the existing asphalt, perform pavement repairs, place the intermediate course and pavement markings all between the hours of 7:00 AM to 5:00 PM. Traffic shall be returned to the normal configuration outside of the permitted closure times listed.

The maximum allowed pavement drop off shall not be greater than 1-1/2" when the pavement is exposed to traffic after each working day.

**Item 614 – Asphalt Concrete for Maintaining Traffic, As Per Plan**

This item shall be used to provide temporary asphalt ramps for transverse discontinuities. Ramping shall be placed at the rate of 1" per 10' or to be used as directed by the Engineer.

Remove temporary asphalt ramps as part of this item. Materials shall be removed prior to the placement of the next course of asphalt.

Item 614 – Asphalt Concrete for Maintaining Traffic, As Per Plan..... **100 Cu Yd**

**Work Zone Markings**

The following estimated quantities have been carried to the General Summary for use at locations identified by the Engineer for work zone pavement markings per the requirements of CMS 614.04 and 614.11. Place temporary markings at the same locations as the proposed permanent markings.

After the planing is completed, use the following temporary markings:

- Item 614 – Work Zone Center Line, Class I, 642 Paint ..... **2.31 Miles**
- Item 614 – Work Zone Channelizing Line, Class I, 8", 642 Paint..... **340 Ft**
- Item 614 – Work Zone Dotted Line, Class I, 6", 642 Paint..... **1644 Ft**
- Item 614 – Work Zone Edge Line, Class I, 6", 642 Paint ..... **4.65 Miles**
- Item 614 – Work Zone Lane Line, Class I, 6", 642 Paint..... **4.16 Mile**
- Item 614 – Work Zone Stop Line, Class I, 642 Paint..... **94 Ft**

After the intermediate course is placed, use the following temporary markings:

- Item 614 – Work Zone Center Line, Class I, 642 Paint ..... **2.31 Miles**
- Item 614 – Work Zone Channelizing Line, Class I, 8", 642 Paint..... **340 Ft**
- Item 614 – Work Zone Dotted Line, Class I, 6", 642 Paint..... **1644 Ft**
- Item 614 – Work Zone Edge Line, Class I, 6", 642 Paint ..... **4.65 Miles**
- Item 614 – Work Zone Lane Line, Class I, 6", 642 Paint..... **4.16 Mile**
- Item 614 – Work Zone Stop Line, Class I, 642 Paint..... **94 Ft**

After the surface course is placed, use the following temporary markings:

- Item 614 – Work Zone Center Line, Class III, 642 Paint ..... **2.31 Miles**
- Item 614 – Work Zone Channelizing Line, Class III, 8", 642 Paint..... **340 Ft**
- Item 614 – Work Zone Dotted Line, Class III, 6", 642 Paint..... **1644 Ft**
- Item 614 – Work Zone Edge Line, Class III, 6", 642 Paint ..... **4.65 Miles**
- Item 614 – Work Zone Lane Line, Class III, 6", 642 Paint..... **4.16 Mile**
- Item 614 – Work Zone Stop Line, Class III, 642 Paint..... **94 Ft**

**Item 614 – Portable Changeable Message Signs, As Per Plan**

The Contractor shall furnish, install, maintain and remove, when no longer needed, a changeable message sign. The sign shall be of a type shown on a list of approved PCMS units available on the Office of Materials Management web page. The list contains Class A and B units with minimum legibility distances of 800 feet and 650 feet, respectively.

Each sign shall be trailer-mounted and equipped with a functional dimming mechanism, to dim the sign during darkness, and a tamper and vandal proof enclosure. Each sign shall be provided with appropriate training and operation instructions to enable on-site personnel to operate and troubleshoot the unit. The sign shall also be capable of being powered by an electrical service drop from a local utility company. The PCMS shall be delineated in accordance with C&MS 614.03.

Placement, operation, maintenance and all activation of the signs by the Contractor shall be as directed by the Engineer. The PCMS shall be located in a highly visible position yet protected from traffic. The Contractor shall, at the direction of the Engineer, relocate the PCMS to improve visibility or accommodate changed conditions. When not in use, the PCMS shall be turned off. Additionally, when not in use for extended periods of time, the PCMS shall be turned away from all traffic.

The Engineer shall be provided access to each sign unit and shall be provided with appropriate training and operation instructions to enable ODOT personnel to operate and troubleshoot the unit, and to revise sign messages, if necessary.

All messages to be displayed on the sign will be provided by the Engineer. A list of all required pre-programmed messages will be given to the Contractor at the project preconstruction conference. The sign shall have the capability to store up to 99 messages. Message memory or pre-programmed displays shall not be lost as a result of power failures to the on-board computer. The sign legend shall be capable of being changed in the field. Three-line presentation formats with up to six message phases shall be supported. PCMS format shall permit the complete message for each phase to be read at least twice.

The PCMS shall contain an accurate clock and programming logic which will allow the sign to be activated, deactivated or messages changed automatically at different times of the day for different days of the week. The PCMS unit shall be maintained in good working order by the Contractor in accordance with the provisions of C&MS 614.07. The Contractor shall, prior to activating the unit, make arrangements, with an authorized service agent for the PCMS, to assure prompt service in the event of failure. Any failure shall not result in the sign being out of service for more than 12 hours, including weekends. Failure to comply may result in an order to stop work and open all traffic lanes and/or in the Department taking appropriate action to safely control traffic. The entire cost to control traffic, accrued by the Department due to the Contractor's noncompliance, will be deducted from moneys due, or to become due the Contractor on his contract.

The Contractor shall be responsible for 24-hour-per-day operation and maintenance of these signs on the project for the duration of the phases when the plan requires their use.

Payment for the above described item shall be at the contract unit price. Payment shall include all labor, materials, equipment, fuels, lubricating oils, software, hardware and incidentals to perform the above described work.

The estimated quantity provides for 3 PCMS units at 2 months each.

Item 614, Portable Changeable Message Sign, as per plan..... **6 SNMT**  
Assuming 3 PCMS Sign(s) for 2 Month(s)



