TRAFFIC CONTROL:

Maintain traffic in accordance with Divisions 10, 11 and 12 of the *Standard Specifications*, the latest revisions thereto and the following provisions:

Use ICT #1 for day and time restrictions to perform the mill, fill and 2" overlay paving operations, as directed by the Engineer.

Failure to comply with the following requirements will result in a suspension of all other operations:

- 1.) During milling operations in NBL, pavement shall be installed in the same work period and travel lane restored at end of work period.
- 2.) The stationary work zone shall be a maximum of 3 miles in length at any given time unless otherwise directed by the Engineer.
- 3.) During resurfacing of 2" S12.5D, the adjacent lane of traffic and paved shoulders shall be brought to the same station and elevation within the same work week.
- 4.) The max distance allowable to have a 2" differential between lanes is 2 miles.
- 5.) The paved shoulder at every location shall be backfilled with earth material within 10 days after the paved shoulder at that location is resurfaced.
- 6.) During periods of construction inactivity, return the traffic pattern to the existing alignment and remove or cover any work zone signs.

Use a lane closure (refer to the Roadway Standard Drawings Nos. 1101.02, 1101.11, 1110.02, 1130.01 and details for the Advance Work Zone signing in contract) or a slow-moving operation as shown in details of this contract. When using RSD 1101.02, add an additional flashing arrow panel (FAP) approximately 1,200 feet in advance of the required FAP located at the taper. This is to assist in reducing the number of "late lane" merges. See attached drawing for device locations and messages to be used on the portable changeable message signs. Use a moving operation only if the minimum speed maintained at all times is 3 mph with no stops that narrow or close a lane of travel. If the moving operation is progressing slower than 3 mph at any time, install a lane closure. Maintain the existing traffic pattern at all times, except in the immediate work zone where lane closures are allowed as determined by the Engineer.

Properly ballasted cones may be used instead of drums for lane closures during daylight hours. However, drums are required for the upstream taper portion of lane closures in all applications. When covering work zone signs, use an opaque material that prevents reading of the sign at night by a driver using high beam headlights and covers the sign completely. Use material, which does not damage the sign sheeting. Replace any obliterated markings as required by other sections of the *Standard Specifications* and the Engineer.

When personnel and/or equipment are working on the shoulder adjacent to an undivided facility and within 5 feet of an open travel lane, close the nearest open travel lane using the *Roadway Standard Drawings* No. 1101.02 unless the work area is protected by barrier or guardrail. When personnel and/or equipment are working on the shoulder, adjacent to a divided facility and within 10 feet of an open travel lane, close the nearest open travel lane using the *Roadway Standard Drawings* No. 1101.02 unless the work area is protected by barrier or guardrail. When personnel

and/or equipment are working within a lane of travel of an undivided or divided facility, close the lane according to the traffic control plans, *Roadway Standard Drawings* or as directed by the Engineer. Conduct the work so that all personnel and/or equipment remain within the closed travel lane. Do not work simultaneously, on both sides of an open travel way, within the same location, on a two-lane, two-way road. Do not perform work involving heavy equipment within 15 feet of the edge of travel way when work is being performed behind a lane closure on the opposite side of the travel way. Perform work only when weather and visibility conditions allow safe operations as directed by the Engineer.

When utilizing a slow-moving operation for such items as pavement marking placement and pavement marker installation, the slow moving operation caravan shall consist, as a minimum, of the vehicles and devices shown on the Moving Operation Caravan Detail(s) herein. Traffic cones may be used when necessary to provide additional protection of wet pavement markings. Ballast all traffic cones so they will not be blown over by traffic.

Submit a sequence of operation for all maps to the Engineer at the first pre-construction meeting for approval by the Engineer. Approved sequence can not be altered without written permission of the Engineer.

Notify the Engineer 48 hours before milling or resurfacing will interfere with the existing Signal Loops. Loops may need to be placed in milled surface before resurfacing occurs. Coordinate all signal loop operations with the Engineer.

Notify the Engineer 15 consecutive calendar days before resurfacing a bridge or its approaches. Patch and make repairs to bridge surface and its approaches before resurfacing occurs. Coordinate all operations on the bridge and its approaches with the Engineer.

Notify the Engineer 48 hours before resurfacing the areas of existing pavement that require patching. Patch these areas before resurfacing occurs. Allow full depth asphalt patching to cool to the point of supporting traffic without displacement or rutting before reopening closed lane. Coordinate the resurfacing operations of the patched areas with the Engineer.

For partial or wheel track milling operations on multi-lane facilities, mill and pave back by the end of each work day as directed by the Engineer.

Remove any existing pavement adjacent to the milled area, that has been damaged, and replace with patch material as directed by the Engineer.

Maintain vehicular access in accordance with Section 1101-13 of the *Standard Specifications* using suitable backfill material approved by the Engineer.

Operate equipment and conduct operations in the same direction as the flow of traffic. Do not cross medians with equipment, except at properly designated interchanges.

Review and record the existing pavement markings and markers prior to resurfacing. Use the record of existing pavement markings and markers in conjunction with the Roadway Standard

Drawings to re-establish the proposed pavement markings and markers unless otherwise directed by the Engineer.

Centerline markings (1 application of paint) are to installed each night after milling and paving operations.

During paving operations, portable "Uneven Lanes" signs (W8-11) shall be used 500' feet in advance of the uneven condition and repeated every ½ mile during paving operations where a 2" difference in elevation between travel lanes occur when traffic is required to be returned to their existing pattern. These portable signs are not required when traffic is allowed to remain in a 1 lane, 1 way pattern.

Remove existing pavement markers in preparation for paving. Repair any pavement damage due to existing pavement marker removal prior to the end of the work day. Dispose of existing pavement markers as directed by the Engineer. No direct payment will be made for this work, as it will be incidental to the paving operation.

Provide appropriate lighting in accordance with Section 1413 of the Standard Specifications when working at night. Portable lighting for required night work will be paid for as described in Division 14 of the Standard Specifications and any Special Provisions. Portable lighting used when electing to perform paving at night will be at no expense to the Department.

Payment will be made for the stationary signs, flashing arrow panels (FAP), changeable message signs (CMS), Drums, Truck Mounted Impact Attenuators (TMIA), and other traffic control items used as described in Division 11 of the Standard Specifications and the Roadway Standard Drawings. No direct payment shall be made for all other signing and traffic control items, as such work will be considered incidental to the various other bid items in the contract.

WORK ZONE SIGNING:

 $\overline{(1-16-07)}$

RWZ-3Revised

Description

Install and maintain signing in accordance with Divisions 11 and 12 of the *Standard Specifications*, the *Roadway Standard Drawings* and the latest revisions thereto, and the following provisions:

Furnish, install, maintain, and remove advance warning work zone signs and any required lane closure signing.

Furnish, install, and maintain any necessary general work zone warning signs for resurfacing and/or milling operations. When construction is completed in any given area of the project, relocate signs to the next work site, as directed by the Engineer. Remove these signs at the completion of the project.

Construction Methods

(C) Lane Closure Work Zone Signs

Install any required lane closure signing needed during the life of the project in accordance with the *Roadway Standard Drawings* Nos. 1101.02, 1101.11 and 1110.02.

Measurement and Payment

Payment will be made for Work Zone Signing as shown elsewhere in the contract.

TIME LIMITATION FOR PAVEMENT MARKINGS AND MARKERS ON NEWLY RESURFACED AREAS:

(9-19-06)

RWZ-4

Markings: All Facilities follow Section 1205-3 (D) for time limitations on replacement of pavement markings.

The pavement markings on a specific map are subject to a 180-day observation period that begins with the satisfactory completion of all pavement markings required on a specific map and shall meet all requirements as specified in Subarticle 1205-3(H) Observation Period of the *Standard Specifications*.

Place intermediate paint in one application. The quantity of intermediate paint to be paid for shall be the actual number of linear feet or each that have been satisfactorily placed and accepted by the Engineer.

Markers: All Facilities

Install permanent pavement markers within 60 calendar days after completing the resurfacing on each map.

ROADWAY STANDARD DRAWINGS FOR PAVEMENT MARKINGS AND MARKERS:

(7-18-06)

RWZ-5

Use the following in conjunction with the *Standard Specifications*:

Standard Pavement Markings

Roadway Standard Drawings:

1205.01, 1205.02, 1205.03, 1205.04, 1205.05, 1205.06, 1205.07, 1205.08, 1205.09, 1205.10, 1205.11, 1205.12

Snowplowable Pavement Markers

Roadway Standard Drawings:

1250.01, 1253.01

