PROJECT LEVEL - TRAFFIC MANAGEMENT PLAN
I-82: Bridge End Panels Replacement Project
MP 1.77 & MP 10.27
Umatilla County
Key Number: 19793
Bid Opening – October 4th, 2018

Oregon Department of Transportation
Region 5 Traffic Engineering
3012 Island Avenue
La Grande, OR  97850

Prepared By:  Daniel Fine, P.E.
R5 Traffic Operations
Project Description

The I-82: Bridge End Panel Replacements Project consists of repairing bridges at two separate locations on I-82. Bridge work will occur at M.P. 1.77 on both eastbound and westbound structures. Bridge work will also be done on both eastbound and westbound structures at M.P. 10.27. Major work items include replacing concrete end panels and overlaying the bridge decks with a polymer concrete overlay.

Purpose of Traffic Management Plan (TMP)

This TMP will document decisions and the strategy behind the traffic control plans and traffic control related specifications.

Roadway Characteristics

The roadway geometry of I-82 within Oregon is fairly straight and flat.

Traffic Analysis & Traffic Safety

Annual Average Daily Traffic (AADT) for this stretch of I-84 is 14,400 vehicles per day (both directions). A little over 25% of this traffic is trucks or 3600 trucks per day. The 5 year crash data report for the period from 2012 through 2016 shows that 92 reported crashes occurred within this section of I-82. Of the 92 reported crashes, 35 of those or 38% occurred during snowy, icy, or foggy conditions. Two fatalities were reported in the 5 year crash summary.

To increase safety during construction of the project, a temporary speed zone reduction will be requested to reduce speeds in the work zone. This will help reduce the speed differential between passenger cars and trucks. The speed requested will be 55 mph which is a drop of 15 mph for passenger cars and 10 mph reduction for trucks.

Bicycle and pedestrian traffic will be routed around the project during construction. There will not be sufficient room for bicycles and pedestrians in the work zone, so routing them around the project using US395 and US730 will be safer.

Freight Mobility Considerations

The project will begin March 15^{th}, 2019 and be complete on August 6^{th}, 2019. The schedule is based on the assumption that work at both bridge sites will occur concurrently.

A 16 foot restriction (14’ loads) is needed for the bridge work at M.P. 10.27. The bridges are located right at the I-82 & I-84 interchange, therefore a crossover to get traffic around the work area is not feasible. Based on the fact that there are viable detours in the immediate vicinity, and it would be very difficult to construct a crossover, the crossover option was dropped. Oversize loads traveling on I-84 eastbound needing to head north towards Washington State can detour onto US730 and access I-82 in Umatilla. It would be just the reverse for loads
coming from Washington needing to head west. Oversize loads on I-84 heading westbound and traveling north to Washington can use US395 as a detour and the reverse for loads heading east coming down I-82 from Washington State.

A 20 foot restriction will be needed for the bridge work at M.P. 1.77. A crossover will be installed for this area to move all traffic away from the work area. It was determined that a crossover should be installed for this location due to more work area is needed for the contractor because the bridge work is more intensive and it is fairly easy to install a crossover. There would still be a restriction on I-82 of 16 foot due to the work concurrently going on at M.P. 10.27. Westland Road Interchange (M.P. 9.77) is a destination for quite a few trucks. If an oversize load is heading south on I-82 and was heading for Westland Road, that load would only be restricted to 18 feet (20’ lane at M.P. 1.77) and would avoid the 16 foot restriction at M.P. 10.27.
Lane Restrictions (Specifications)

00220.40(e)(1)  Closed Lanes - Replace this subsection, except for the subsection number and title, with the following:

One or more Traffic Lanes may be closed on the McNary Highway (I-82) between M.P. 1.40 and M.P. 2.20 when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e)(2):

Maintain at least 20 feet of clear width for both directions of travel at all times. Lane closures allowed during the period from March 15 to August 6, 2019.

One or more Traffic Lanes may be closed on the McNary Highway (I-82) between M.P. 9.50 and M.P. 10.50 when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e)(2):

Maintain at least 16 feet of clear width for both directions of travel at all times. Lane closures allowed during the period from March 15 to August 6, 2019.