

North Dakota DOT – Responses to State Report Questions

1. Has your state built concrete overlays?

(If no, skip to # 3.)

Completed one concrete overlay project and are in the development stage on another.

2. If **yes**:

- a. What bid items were used?

Concrete Pavement with units of cubic yard.

Concrete Placements with units of square yard.

- b. What efforts were made to re-establish a profile grade?

Milled existing surface to re-establish cross slope. No change to the existing profile.

- c. What has been your experience with overruns in concrete mix quantities?

Plan quantity was determined by adding calculated cubic yards plus 10 percent. Project used plan quantity.

- d. How do you typically manage traffic on two-lane and four-lane roadways?

(Please furnish typical sections if possible.)

Project was on a divided highway. We constructed median crossovers and maintained head to head traffic on the opposite roadway.

- e. How do you design the overlay thickness?

We evaluated the pavement design with DARWin and Colorado's Design Methodology to make a design recommendation.

- f. Is your state applying an alternate bidding approach to concrete and HMA overlays?

No.

3. If **no**:

- a. What are the barriers to trying a concrete overlay?

- b. What would help to address those barriers?