



COLLIN COUNTY

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MEMO

Date: 12/11/09
To: Commissioners Court
From: Ruben E. Delgado, P.E.; Collin County Director of Engineering
Subject: Dallas North Tollway west service road from US 380 to FM 428 cost analysis and funding availability study

On December 7, 2009, the Commissioners Court directed staff to look into the possibility of submitting the DNT west service road (South bound lane) road for possible funding with local contribution credits, interest and savings derived from SH 121 RTR funds.

Additionally, before we considered the DNT SB Service road for funding consideration, staff was directed to come up with a cost estimate and traffic projections to determine if indeed it was a viable project to be submitted to the NCTCOG and the RTC for Regional Toll Revenue funding consideration.

The attachments show in more detail the following summary of cost and traffic projections:

Cost

Cost to construct DNT SB Road based on Feb. 2009 dollars:

- \$40,643,882

Traffic Counts

Traffic Counts as of May 13, 2009:

- 3072 incoming to US 380 southbound at DNT
- 8709 incoming southbound at SH 289

Average Daily Traffic (ADT), Year 2030:

- 14,700 north of US 380
- 13,400 north of 1st street
- 11,200 north of Prosper Trail
- 6,500 south of Outer Loop
- 7,600 south of FM 428

Comparing to SH 289 the Dallas North Tollway (DNT) average daily traffic would be significantly less because they would serve only local traffic. The DNT traffic would increase as development along the DNT grows; whereas, SH 289, being more multi-county and regional than DNT north of US 380, would pre-dominate over DNT.

The North Texas Tollway Authority (NTTA) Environmental Assessment produced by HNTB for the DNT segment 4A from US 380 to FM 428, states on page 5 that the frontage roads would be under capacity. (See attached copy of page 5 of EA.)

Right of Way

Property owners donated thirty-five (35) of forty-one (41) parcels or approximately 249 acres to the county. This would be sufficient to construct the east service road, now functioning as a bi-directional road, but not enough to construct the southbound service road. We would still need to acquire six (6) parcels for a total acreage of 32.85 acres. Out of the remaining six (6) parcels, four (4) would probably go to eminent domain. Using \$50,000 per acre as a benchmark estimate, the value of the remaining right-of-way would be approximately \$1.65 million.

Timeline

If all the funding were available for engineering and right-of-way, the DNT SB service road could go to construction in about 2 years.

Available Funding

As of December 1, 2009, there was a total of \$86 million in credits, interest and savings available to apply towards road projects in Collin County. On December 10, 2009 the RTC voted to use all the remaining Local Contribution Credits and interest earned to fund projects where TxDOT funding shortfalls would render the projects delayed. The balance left to be allocated to new projects is \$0.

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