

MEMO

TO: Carly Farmer, P.E.
Engineer
Transportation & Capital Improvements
550 Landa St
New Braunfels, Tx 78130

DATE: 1/9/2023

FROM: Justin Clark, P.E. PTOE
Jacqueline Hohenstein, P.E.
Jacob Shelton

PROJECT NO.: 30047-01

cc: Gary Ford, P.E. PTOE
Chris Nowak

RE: Task 21: Klein Way Pavement Improvements (2022-493)

Background

Klein Way is two-lane undivided roadway generally oriented in a north-south direction in vicinity of the project limits with approximately 40 feet of pavement. The posted speed limit on the roadway is 30 miles per hour. Klein Way is not identified on the City of New Braunfels Regional Transportation Plan. The roadway primarily serves the Klein Road Elementary school and NBISD bus barn traffic. There are 3 driveways associated with the elementary school which serve as the entrance and exit locations for parent pick-up and drop-offs. The eastern most driveway is gated but parents were observed using the driveway to park and pick-up students during the afternoon peak hour.

Parents were observed parking along both sides of Klein Way near the Elementary school during the pick-up period. The queue of right-turn vehicles extended back into the Settlers Crossing intersection and south of the intersection. The left-turns entering the school driveway queued along the northern curb line of Klein Way leaving a through lane in each direction in the middle of the roadway. The left-turns into the school driveway were made across the two through lanes in the center portion of the roadway when there was a gap in the traffic.

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Figure 1: Klein Way Project Limits



West Klein Road is a four-lane divided roadway, generally oriented in an east-west direction. The posted speed limit is 30 miles per hour. West Klein Road is identified on the City of New Braunfels Regional Transportation Plan as a minor arterial with the right of way width of 120 feet. The intersection is currently a two-way stop-controlled intersection with West Klein Road being free. A proposed pedestrian hybrid beacon system is in design stages for a pedestrian crossing on the west leg of the intersection.

Settlers Crossing is a two-lane undivided roadway, generally oriented in an east-west direction. The posted speed limit is 30 miles per hour. Settlers Crossing is identified on the City of New Braunfels Regional Transportation Plan as a minor collector with the right of way of 60 feet. The intersection of Settlers Crossing and Klein Way is currently an all-way stop controlled intersection. Figures 2 and 3 show the existing pavement markings on Klein Way at the two ends of the study limits.

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Figure 2: Existing Striping on Klein Way SB at Settlers Crossing



Figure 3: Existing Striping on Klein Way NB at W Klein Rd



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Crash History

There were 2 recorded crashes within the project limit from 2017 to 2022 that resulted in no injuries. There have been multiple complaints about safety and near crashes due to the lack of pavement marking through this corridor. Due to the public outreach for updated pavements marking and possibility of crashes currently occurring within a school zone, it is recommended to stripe Klein Way between Klein Rd and Settlers Crossings to provide better direction for drivers.

Recommendation

Based on the site investigation and public complaints, it is recommended to stripe Klein Way as two-lane roadway with a two-way left turn lane throughout the project limits. We recommend adding a parking lane in the southbound direction starting at Settlers Crossing intersection and continuing to the Klein Rd as shown in the plans. Along Klein Way “No Parking” signs shall be added for northbound traffic so parking on the east side of the roadway is prohibited. Signage for the dedicated parking/ pick up lane shall be installed as well as pavement markings. At Klein Road and Settlers Crossing intersections dedicated left-turn lane pavement markings should be installed. These pavement markings will help drivers stay in their correct lanes of travel and negate from the current confusion of where to be on the roadway to enter the school. The pavement marking plans are shown in Attachment A and the cost estimate is shown in Attachment B. In the future once the Pedestrian Hybrid Beacon installed at Klein Road additional pavement markings will be added for the proposed pedestrian crossings on north and west legs of the intersection along with stop bars on Klein Road.

Attachments:

- A-Pavement Marking Plans
- B-Cost Estimate
- C-Field Photos



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