Transportation Advisory Committee (TAC)
Monday, June 17th at 5:30pm
(City Hall Court Room)

Chairman- Alderman Dan Allen
Vice-Chairman- Terry Love
Secretary- Shane McNeil
Members- Mayor Rick Graham, Terry Love, Shane McNeil, James Golas, Alderman John Canepari, Alderman Kevin Gavigan

Call meeting to order   Citizen Comments

5:30pm Business Meeting

1. Presentation on Northern Gateway Projects – Mayor Graham
2. Update from Williamson County Transportation Summit – Victor Lay
3. US 31 signal synchronization update – Chuck Downham
4. Battle Creek Schools Discussion
   a. Funding Lighting Improvements for Hummingbird Lane and Kedron Road along Mahlon Moore Road – Request from Alderman Fuqua
5. Stewart Campbell Traffic Calming Update – Victor Lay
7. Update on Tanyard Springs Traffic Signal Warrants on US 31 – Chuck Downham
8. Tom Lunn Road – Discuss adding conduit into widening project for high speed internet - Alderman Allen

9. STANDING ITEMS
   a. Northern Gateway Update
   b. US 31
      i. Diablo Package Update
   c. Ride Sharing Integration – Terry Love & Alderman Canepari
   d. Saturn Parkway/Port Royal Signalization
   e. Beechcroft Road
   f. Duplex Road

10. Roundtable
11. Adjourn
CITY OF SPRING HILL
US 31 (MAIN STREET) SIGNAL TIMING OPTIMIZATION

PROJECT UPDATE
JUNE 11, 2019

Project Description

The principal purpose of this project is to develop optimized traffic signal timings for the US 31 (Main Street) corridor from Crossings Boulevard to Buckner Road / Thompsons Ridge Road for immediate implementation. Additionally, recommendations for short, mid and long-term improvements will be developed. Strategies will consider access management, modified signal phasing, signal timing, intersection laneage, vehicle detection, Intelligent Transportation Systems (ITS), and technologies such as adaptive signal control.

At the conclusion of the project a system of optimized signal timing plans will be in place and operational, tailored for peak conditions and time of day. A recommended path for next step improvements and future technologies will be identified and an analysis of infrastructure in place will be provided to ensure continued maintenance of timings and operations. With proper upkeep of these products, this project will provide the City of Spring Hill with an operational strategy for managing the US 31 (Main Street) corridor.

Completed

1. Kick-Off Meeting
   - Held on January 9, 2019

2. Data Collection
   - 24-hour data tube collectors installed along the corridor
   - Traffic turning movement count data was collected Thursday 1/10, Saturday 1/12, Thursday 1/17, and Saturday 1/19
   - Pre-Condition Travel Time and Delay was collected on Thursday 1/17
   - Signal System Field Inventory was conducted Friday 1/18 and Monday 1/21
   - Signal System Observations took place Friday 1/18 and Monday 1/21

3. Traffic Simulation Model
   - Created existing conditions Synchro models of corridor for AM, PM, midday, and weekend time periods including existing signal timings and new turning movement count data
   - Calibrated models to match with field observations
   - Conducted existing operations capacity analyses
4. **Timing Plan Development**
   - Developed Local Controller Settings including minimum vehicular green, yellow clearance interval, all-red clearance interval, pedestrian walk, and pedestrian flashing don’t walk time
   - Completed system boundary determination
   - Completed peak hour cycle length evaluations

5. **Existing Conditions**
   - Held existing conditions review meeting Tuesday 3/19
   - Submitted existing conditions report

6. **Timing Plan Development**
   - Completed split, offset, and phase sequence development
   - Submitted cycle length evaluation memorandum
   - Completed TOD clock development
   - Completed coding sheet development

7. **Signal Timing Implementation**
   - Briefed Transportation Advisory Committee on Monday 4/15
   - Signal timing review meeting held Tuesday 4/16
   - New traffic signal timing Field Implementation completed the week of 4/29 – 5/4

**Monthly Progress**

8. **Signal Timing Implementation**
   - Post-Condition Travel Time and Delay was collected on Wednesday 5/15

9. **Analysis and Recommendations**
   - Recommended improvements
   - Final Signal Timing Report

**Action Items for Next Month**

10. **Analysis and Recommendations**
    - Complete Final Signal Timing Report
    - Present results to Transportation Advisory Committee (TAC)