



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 Golias, 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
6. Nasdaq/Wall Street 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

Summary of Major Transportation Projects



Buckner Interchange
 BUILD Grant/Design-Build (TDOT)
 Project Completion Deadline: 2025
 Status: NEPA/PE (Jan2020); Design-Build Contract (Sept2020)
 Steps Remaining: Design/Build – Finalize Design;
 ROW Acquisition; Construction



Buckner Lane Widening
 Engineering/ROW/Utilities/Construct (City)
 Project Completion Target: 2025
 Status: Concept Completed
 Steps Remaining: Construction Design; ROW
 Acquisition; Utility Relocation; Construction



Buckner Lane Realignment
 Engineering/Construct (Developer)
 Project Completion Target: 2025
 Status: Master Plan Approved
 Steps Remaining: Construction Design; Construction



Buckner Road Widening
 Environmental/Engineering/ROW/Utilities/Construct (City)
 Project Completion Target: 2030
 Status: Concept Plan Completed
 Steps Remaining: Environmental (NEPA/TEER); Construction
 Design; ROW Acquisition; Utility Relocation; Construction

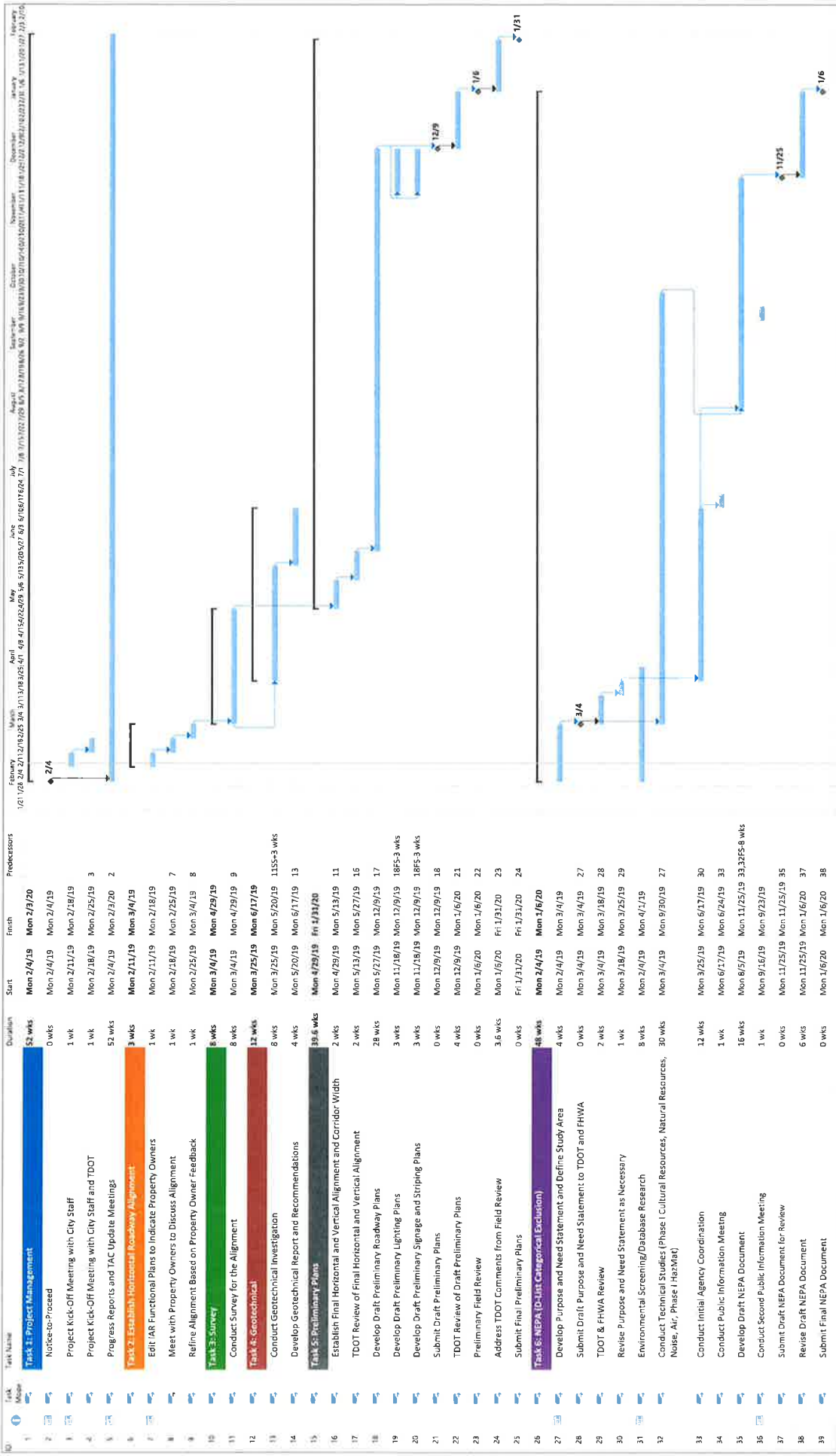


New Port Royal Extension
 Design/Construct (Developer)
 Project Completion: TBD
 Status: Master Plan Approved
 Steps Remaining: Construction Design; Construction



Intersections (Turn Lanes/Signals)





Task ID	Task Name	Duration	Start	Finish	Predecessors
1	Task 1: Project Management	54 wks	Mon 2/24/19	Mon 2/23/20	
2	Notice-to-Proceed	0 wks	Mon 2/24/19	Mon 2/24/19	
3	Project Kick-Off Meeting with City Staff	1 wk	Mon 2/11/19	Mon 2/18/19	
4	Project Kick-Off Meeting with City Staff and TDOT	1 wk	Mon 2/18/19	Mon 2/25/19	3
5	Progress Reports and TAC Update Meetings	52 wks	Mon 2/24/19	Mon 2/23/20	2
6	Task 2: Establish Horizontal Roadway Alignment	3 wks	Mon 2/11/19	Mon 3/4/19	
7	Edit IAR Functional Plans to Indicate Property Owners	1 wk	Mon 2/11/19	Mon 2/18/19	
8	Meet with Property Owners to Discuss Alignment	1 wk	Mon 2/18/19	Mon 2/25/19	7
9	Refine Alignment Based on Property Owner Feedback	1 wk	Mon 2/25/19	Mon 3/4/19	8
10	Task 3: Survey	8 wks	Mon 3/4/19	Mon 4/29/19	
11	Conduct Survey for the Alignment	8 wks	Mon 3/4/19	Mon 4/29/19	9
12	Task 4: Geotechnical	12 wks	Mon 3/25/19	Mon 6/17/19	
13	Conduct Geotechnical Investigation	8 wks	Mon 3/25/19	Mon 5/20/19	1355+3 wks
14	Develop Geotechnical Report and Recommendations	4 wks	Mon 5/20/19	Mon 6/17/19	13
15	Task 5: NEPA (D-List Categories Exclusion)	48 wks	Mon 4/29/19	Fri 11/30/20	
16	Establish Final Horizontal and Vertical Alignment and Corridor Width	2 wks	Mon 4/29/19	Mon 5/13/19	11
17	TDOT Review of Final Horizontal and Vertical Alignment	2 wks	Mon 5/13/19	Mon 5/27/19	16
18	Develop Draft Preliminary Roadway Plans	28 wks	Mon 5/27/19	Mon 12/9/19	17
19	Develop Draft Preliminary Lighting Plans	3 wks	Mon 11/18/19	Mon 12/9/19	18F5-3 wks
20	Develop Draft Preliminary Signage and Striping Plans	3 wks	Mon 11/18/19	Mon 12/9/19	18F5-3 wks
21	Submit Draft Preliminary Plans	0 wks	Mon 12/9/19	Mon 12/9/19	18
22	TDOT Review of Draft Preliminary Plans	4 wks	Mon 12/9/19	Mon 1/6/20	21
23	Preliminary Field Review	0 wks	Mon 1/6/20	Mon 1/6/20	22
24	Address TDOT Comments from Field Review	3.6 wks	Mon 1/6/20	Fri 1/31/20	23
25	Submit Final Preliminary Plans	0 wks	Fri 1/31/20	Fri 1/31/20	24
26	Task 5: NEPA (D-List Categories Exclusion)	48 wks	Mon 2/4/19	Mon 1/6/20	
27	Develop Purpose and Need Statement and Define Study Area	4 wks	Mon 2/4/19	Mon 3/4/19	
28	Submit Draft Purpose and Need Statement to TDOT and FHWA	0 wks	Mon 3/4/19	Mon 3/4/19	27
29	TDOT & FHWA Review	2 wks	Mon 3/4/19	Mon 3/18/19	28
30	Revise Purpose and Need Statement as Necessary	1 wk	Mon 3/18/19	Mon 3/25/19	29
31	Environmental Screening/Database Research	8 wks	Mon 2/4/19	Mon 4/1/19	
32	Conduct Technical Studies (Phase I Cultural Resources, Natural Resources, Noise, Air, Phase I HazMat)	30 wks	Mon 3/4/19	Mon 9/30/19	27
33	Conduct Initial Agency Coordination	12 wks	Mon 3/25/19	Mon 6/17/19	30
34	Conduct Public Information Meeting	1 wk	Mon 6/17/19	Mon 6/24/19	33
35	Develop Draft NEPA Document	16 wks	Mon 6/24/19	Mon 11/25/19	33, 32F5-8 wks
36	Conduct Second Public Information Meeting	1 wk	Mon 9/16/19	Mon 9/23/19	
37	Submit Draft NEPA Document for Review	0 wks	Mon 11/25/19	Mon 11/25/19	35
38	Revise Draft NEPA Document	6 wks	Mon 11/25/19	Mon 1/6/20	37
39	Submit Final NEPA Document	0 wks	Mon 1/6/20	Mon 1/6/20	38



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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)