CITYWIDE RESIDENTIAL
SPEED LIMIT REDUCTION STUDY
DRAFT SCOPE OF WORK

Introduction

The City of Jacksonville seeks to reduce the speed limit on its residential streets. The major objective of this study is to predict the results of lowering the residential citywide speed limit from 30mph to 25mph. This study must incorporate the newest traffic engineering research available including NACTO City Limits: Setting Safe Speed Limits on Urban Streets (Summer 2020). The consultant will produce a PowerPoint presentation which the City of Jacksonville will be able to use to educate consultants the research regarding setting safe speed limits on urban and residential streets.

The Consultant shall ensure that all tasks and studies requiring field activities are conducted professionally and in a manner that utilizes accepted safety methods and practices. The safety of the traveling public and the Consultant's field staff shall be an essential goal of each field study activity.

The scope of services is divided into several tasks defined below:

Task 1: Project Management

Atkins will develop and maintain a Project Management Plan (PMP) that outlines the schedule, budget, deliverables, QC process, stakeholder coordination activities, and any other additional responsibilities specific to the project. The PMP, which will be updated on a regular basis, will help to confirm that all team members have a clear understanding of project expectations.

Atkins will conduct bi-weekly coordination meetings to facilitate frequent and proactive exchange of information throughout the project team along with stakeholders. (see schedule in Exhibit 4). This scalable schedule will be discussed during the project kickoff meeting to determine with City of Jacksonville to determine an optimal delivery strategy. Budget status will be made available through monthly invoices and progress reports, and upon the City's request.

Task 1 Deliverables:

- Detailed Project Management Plan (PMP) and schedule
- Project kick-off meeting and PMT agendas and meeting minutes
- Progress reports and invoicing
- Monthly progress reports

Task 2: Literature Review

Atkins will perform and academic literature search and summarize the latest academic literature on setting speed limits in residential areas. This will include an investigation on the results of lowering residential citywide speed limits in other cities and the latest academic research on speed limit enforcement strategies in residential areas as well as documenting lessons learned from jurisdictions that have implemented lower residential speed limits.

Task 2 Deliverable:

- Technical Memo presenting literature review

Task 3: NACTO Research Review

- Atkins will research NACTO findings that lowering the posted speed limit on residential streets without any physical changes or increased enforcement can significantly reduce the frequency and severity of crashes. This review will analyze and consolidate the latest research for and/or against this claim.
- Atkins will research NACTO findings that the 85th percentile speed zoning method is not sufficient for setting safe speed limits on residential streets. This review will analyze and consolidate the latest research for and/or against this claim.
- Atkins will research if the State of Florida has adopted NACTO guidelines in any capacity or is likely to in the future. This shall include if NACTO guidelines carry any authority or legal weight.

Task 3 Deliverable:

- Technical Memo presenting NACTO review

Task 4: State Review

- Atkins will research the Florida Statutes, Administrative Rules, Adopted Standards and local ordinances, policies, and procedures to identify where edits are needed in other documents and which edits will require city council approval.
- Atkins will review the FDOT Speed Zoning Manual and Federal MUTS Manual. Reconcile the NACTO method with the current adopted standards. Determine if the NACTO method is permissible under Florida law.

Task 4 Deliverable:

- Technical Memo presenting State review

- The consultant will produce a PowerPoint presentation, based on tasks 2-4, which the City of Jacksonville may use to educate consulting engineers about the newest research and methods for determining safe speed limits on residential and urban streets. If this study finds that the NACTO claims are supported by evidence, then this presentation will be intended to educate engineers that: (1) Changing the posted speed limit on urban and residential streets without any physical changes or increased enforcement can reduce the frequency and severity of crashes. (2) The 85th percentile speed zoning method is not a good method for speed zoning on urban and residential streets.

Task 5: Analysis of Lowering Residential Speed Limits

Atkins will perform an analysis on how lowering the residential citywide speed limit could lower Jacksonville's pedestrian fatality rate, pedestrian injury rate, bicyclist fatality rate, and bicyclist injury rate. This shall include ways that lowering the residential citywide speed limit will improve Jacksonville's standing with Vision Zero Network, Walk Friendly Communities, the League of American Bicyclists, Smart Growth America, and other complete streets organizations.

Task 6: Recommendations for Effective Enforcement

Atkins will develop recommendations for effective enforcement of lower seed limits in residential areas.

Task 7: Public Outreach

Atkins will develop a public outreach/educational handout which the City can distribute to the public for educational purposes. Include a summarization of speed study methods, why it is important to set the speed limit correctly, and Frequently Asked Questions.

Task : Cost/Benefit Analysis

Atkins will complete a cost/benefit analysis of the effects of lowering the residential citywide speed limit from 30mph to 25mph. The cost/benefit analysis will consider the following:

a. Estimate the total number of speed limit signs in the City of Jacksonville that would need to be replaced, the cost to replace each sign, the total cost to the city, and the length of time such a project would take.
b. Estimate the expected reduction in crashes, fatalities, and bicycle/pedestrian crashes over a 1-year, 5-year, and 10-year period.
c. Estimate the direct dollar value to the City of Jacksonville of this reduction in crashes
d. Estimate the economic impact to the Jacksonville Metropolitan Area considering secondary factors such as increased foot traffic to local businesses, lower fuel costs due to reduced speed and increased walking and biking, and reduced noise pollution.

Task 9: Before and After Study

Atkins will provide a methodology for a before and after study to determine the effeteness of the lowered speed limit across the City.

Task 10: Exceptions

Atkins shall develop a speed zoning method for roads that operate differently than they are classified. Include a method for roads that are classified as residential and operate as collectors, and vice versa.

General Guidelines

At a minimum, the latest edition of the following reference manuals will apply to this study:

1. NACTO City Limits: Setting Safe Speed Limits on Urban Streets (Summer 2020)
2. Manual on Uniform Traffic Control Devices
3. FDOT Context Classification Guide
4. NACTO Global Street Design Guide
5. NACTO Urban Street Design Guide
6. The City of Jacksonville Land Development Code
7. FDOT Speed Zoning for Highways, Roads and Streets in Florida
8. FDOT Manual on Uniform Traffic Studies
9. Federal Manual on Uniform Traffic Studies

Project Schedule:

The project will be completed within 10 months from Notice to Proceed, assuming timely coordination with the City of Jacksonville.

Project Budget: TBD