



BCRUA Phase 2 Raw Water Delivery System

Traffic Impact Study

Implementation Plan

Description of Work: BCRUA will perform a traffic impact study along Lime Creek Road related to construction of the BCRUA Phase 2 Raw Water Delivery System (Project). This study includes evaluation of traffic loading as well as curvature terrain along Lime Creek Road to determine limitations of proposed trucking of materials, construction equipment and machinery, building materials and pump equipment associated with construction at both the pump station site in Travis County and maintenance building site in the Village of Volente. The traffic impact study will not be a typical Traffic Impact Analysis (TIA) but rather will focus on several key impacts of the construction activity, including:

1. Anticipated trucking activity to haul excavated materials.
2. Curvature and terrain along Lime Creek Road and the limitations proposed on trucking of excavated materials, construction equipment and machinery, building materials and pump equipment.
3. Parking for construction personnel at proposed pump station. Parking for the pump station construction will not be able to be accommodated on site. While this will be the responsibility of the BCRUA Contractor to arrange, FNI will look at possible arrangements to utilize Sandy Creek Park for employee parking and other construction staging operations and review these with Travis County.

Purpose: Determine potential traffic impacts along Lime Creek Road due to construction of the BCRUA Project and develop recommended traffic mitigation strategies to lessen impact.

Project Limits: The entire reach of Lime Creek Road from both termination points (North and South) at Anderson Mill Boulevard.

Scope of Work:

1. Determine existing traffic counts and patterns along Lime Creek Road .
 - a. Conduct 24-hour bi-directional counts, speeds and classification counts at the following locations shown on attached map:
 - i. 1,500 feet west of Anderson Mills Road
 - ii. midway between the existing Water Treatment Plant and Anderson Mills Road
 - iii. near Jackson Street in Volente
 - iv. near Arrowhead Drive in Volente
 - v. west of Abbotsbury Drive, at about 1.8 miles west of Anderson Mills Road
 - b. Conduct turning movement classification counts at the two intersections of Lime Creek Road at Anderson Mills Road
 - i. 2 hours during the morning peak period from 7:00 am to 9:00 am
 - ii. 2 hours during the midday peak period from 11:00 am to 1:00 pm
 - iii. 2 hours during the afternoon peak period from 4:00 pm to 6:00 pm
2. Estimate number of daily truck trips and type of trucks associated with hauling materials, equipment and machinery to and from the Pump Station site.



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3. Estimate number of daily truck trips and type of trucks associated with hauling materials, equipment and machinery to and from the Maintenance Building site.
4. Evaluate the several sharp curves along Lime Creek Road to identify constraints on size of truck delivery of machinery and building materials. The following efforts will be prepared within the next two months:
 - a. Possible mitigations of the hairpin 15 MPH turns on the roadway as well as the other posted 20 MPH turns and steep grades to maintain two-way traffic operations at all times. FNI will prepare concepts for such enhancements and review them with Travis County.
 - b. Prepare concepts for special traffic control for longer trucks delivering equipment and building materials for special deliveries and review them with Travis County.
5. Develop mitigation strategies for traffic impacts including:
 - a. Possible mitigations of three hairpin 15 MPH turns on the roadway as well as the other turns and steep grades to maintain two-way traffic to greatest extent possible. FNI will prepare concepts for such enhancements and review them with Travis County.
 - b. Prepare concepts for special traffic control for longer trucks delivering equipment and building materials for special deliveries and review them with Travis County.

Schedule:

July 2019 - Install traffic data collectors.

August 2019 - Perform traffic evaluation and prepare draft report.

September 2019 - Submit draft report to Travis County & Volente for review.

October 2019 – BCRUA/Consultant meet with Travis County and Volente to discuss findings and recommendations.

**BCRUA Traffic Study -
Data Collection Plan
for Phase 2 Raw Water
Delivery Project**

LEGEND

24-hour bi-
directional counts,
speeds and
classification



2-hour AM, 2-hour
midday and 2-hour
PM peak turning
movement counts

