

Air Quality Technical Memorandum

Florida Department of Transportation

District Seven

40TH AVENUE NE OVER PLACIDO BAYOU

Limits of Project: FROM 12TH STREET NE TO WEST OF 13TH WAY NE

Pinellas County, Florida

Financial Management Number: 443600-1-32-01

ETDM Number: 14377

August 2019

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.

Air Quality Technical Memorandum

40th Avenue NE over Placido Bayou

August 2019



City of St. Petersburg Project No.: 18032-110

Work Program Item Segment No.: 443600-1

ETDM No.: 14377

Federal Aid Project No.: TBD

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by the Federal Highway Administration and FDOT. Submitted pursuant 49 U.S.C. § 303.



Date: May 28, 2019

To: Ananda Kelley, Cardno

From: Wayne Arner, KB Environmental Sciences, Inc.

**Subject: Air Quality Technical Memorandum
40th Avenue NE Bridge Replacement
Pinellas County, City of St. Petersburg**

National Ambient Air Quality Standards (NAAQS)

The subject project is located in Pinellas County, Florida (**Figure 1**), an area currently designated by the US Environmental Protection Agency (EPA) as being an attainment area for the National Ambient Air Quality Standards (NAAQS) for carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO₂), ozone (O₃), sulfur dioxide (SO₂) and particulate matter (both 2.5 micrometers (PM_{2.5}) and 10 micrometers (PM₁₀) in diameter). Because the project is in an attainment area and would not increase traffic capacity, it is not likely that the proposed improvements will have an impact on local or regional totals of air pollutants or pollutant precursor emissions or on concentrations of the pollutants in the ambient air.

This project will replace the existing 40th Avenue NE Bridge (No. 157154) in St. Petersburg, FL. The project limits extend from 12th St. NE to west of 13th Way NE, a distance of 0.15 miles. The existing 40th Avenue Bridge was a two lane facility with a median auxiliary lane and sidewalks that tied into the roadway approaches with similar configurations. However, the bridge has been reconfigured as part of a temporary emergency repair. The auxiliary lane in the median and one of the sidewalks are now closed. Vehicular traffic has been diverted to the south side of the bridge and pedestrian traffic has been diverted to the north side of the bridge. The new bridge will accommodate two lanes of traffic, bicycle lanes, and sidewalks.

As stated in Chapter 19 (Air Quality) of the Florida Department of Transportation's (FDOT's) Project Development and Environment (PD&E) Manual (January 14, 2019) for projects evaluated as Categorical Exclusions (CEs), an air quality analysis for CO is not necessary given Florida's current attainment status for CO and the low likelihood of adverse air quality impacts associated with projects that reduce delay and congestion. Because replacing the 40th Avenue NE bridge would not increase the capacity of the roadway nor result in the travel lanes being closer to the air quality sensitive land uses within the study area (i.e., residences on the east and west side of the bridge), there is no indication that the project would create a new violation of the NAAQS for CO. Further, because the project is in an area that is designated as attainment for all of the NAAQS, the conformity requirements of the Clean Air Act (CAA) do not apply.

Construction Impacts

Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to the FDOT Standard Specifications for Road and Bridge Construction.

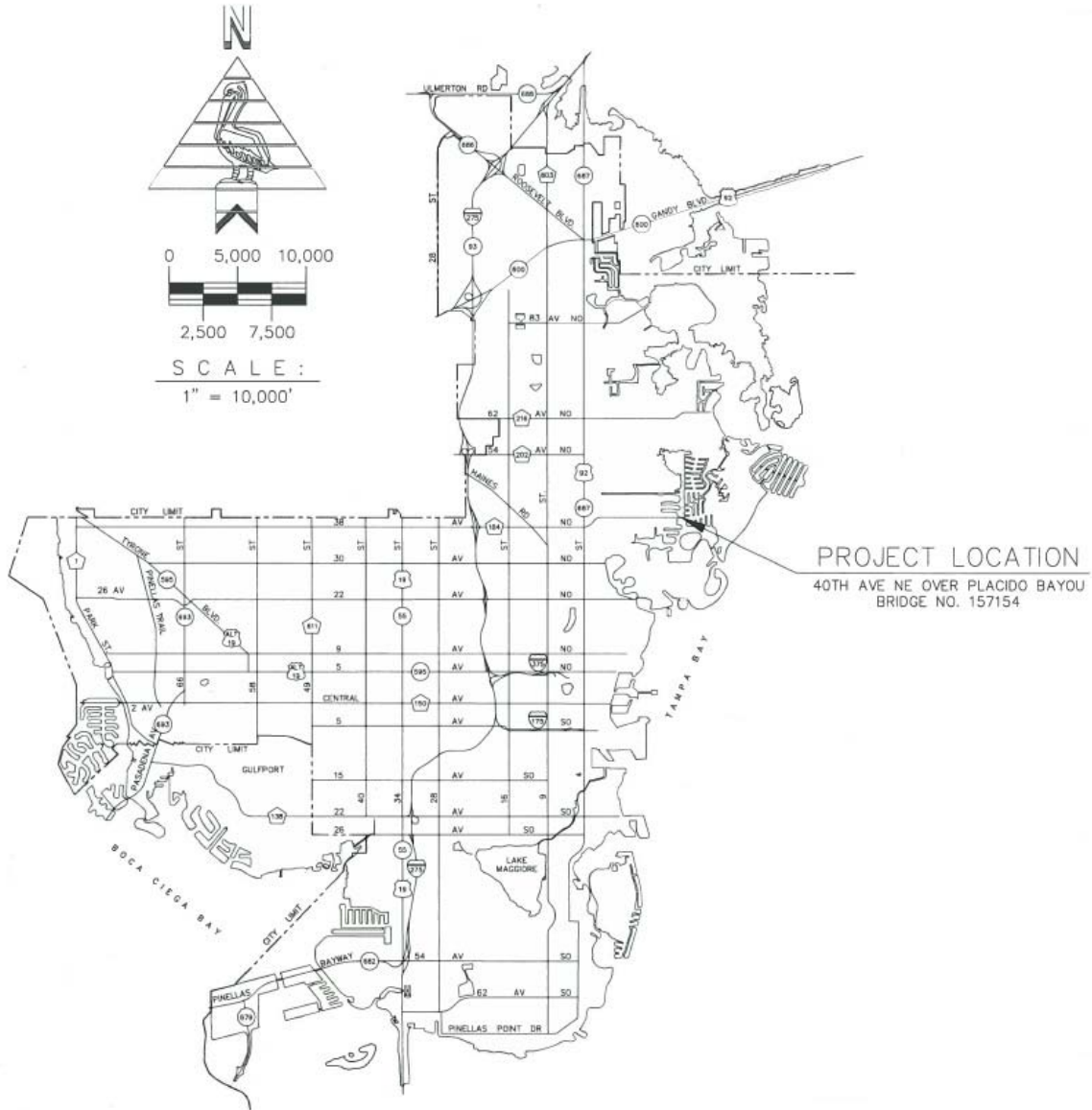


Figure 1. Project Location Map