Extension & Restriping of Dakota Avenue

Department of Civil & Geomatics Engineering

Students: Cesar A. Mandujano; Alex G. Jones, EIT; Francisco J. Diaz, EIT; Dang Vang; Seerat Sharma; Remington R. Alexander, EIT; Scott C. Orcutt, EIT; Sue Yang, EIT

Advisors: Fariborz M. Tehrani, Ph.D., PE, PMP, SAP; William Wright, Ph.D., P.E.; Lubo Liu, Ph.D., P.E.; Fayzul Pasha, Ph.D., P.E.; Lalita Oka, Ph.D.; Aly Tawfik, Ph.D.

Abstract

The Fig Garden Community has experienced high traffic commuting between East and West Fresno, due to the breaks in connectivity caused by the Herndon Canal and the BNSF Rail Way. The Extension of Dakota Avenue over the Herndon Canal will alleviate traffic congestion by providing an additional East-West Street. Primary design tasks include roadway design, concrete canal lid design, slope stability modeling, foundation design, inverted siphon design, storm water collection design, and hydraulic modeling and analysis.



Inverted Siphon



separation at Maroa and Dakota Ave.



Project Location



Storm Water Collection Design



Drainage design for storm water collection along the extension of Dakota Ave.



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Hydraulic Modeling anal Hvdralic Profi 20000 Channel Distance (ft)

The hydraulic profile of the modeling extents operating at maximum flow conditions.









Foundation Design

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Foundation and sheet pile design.