



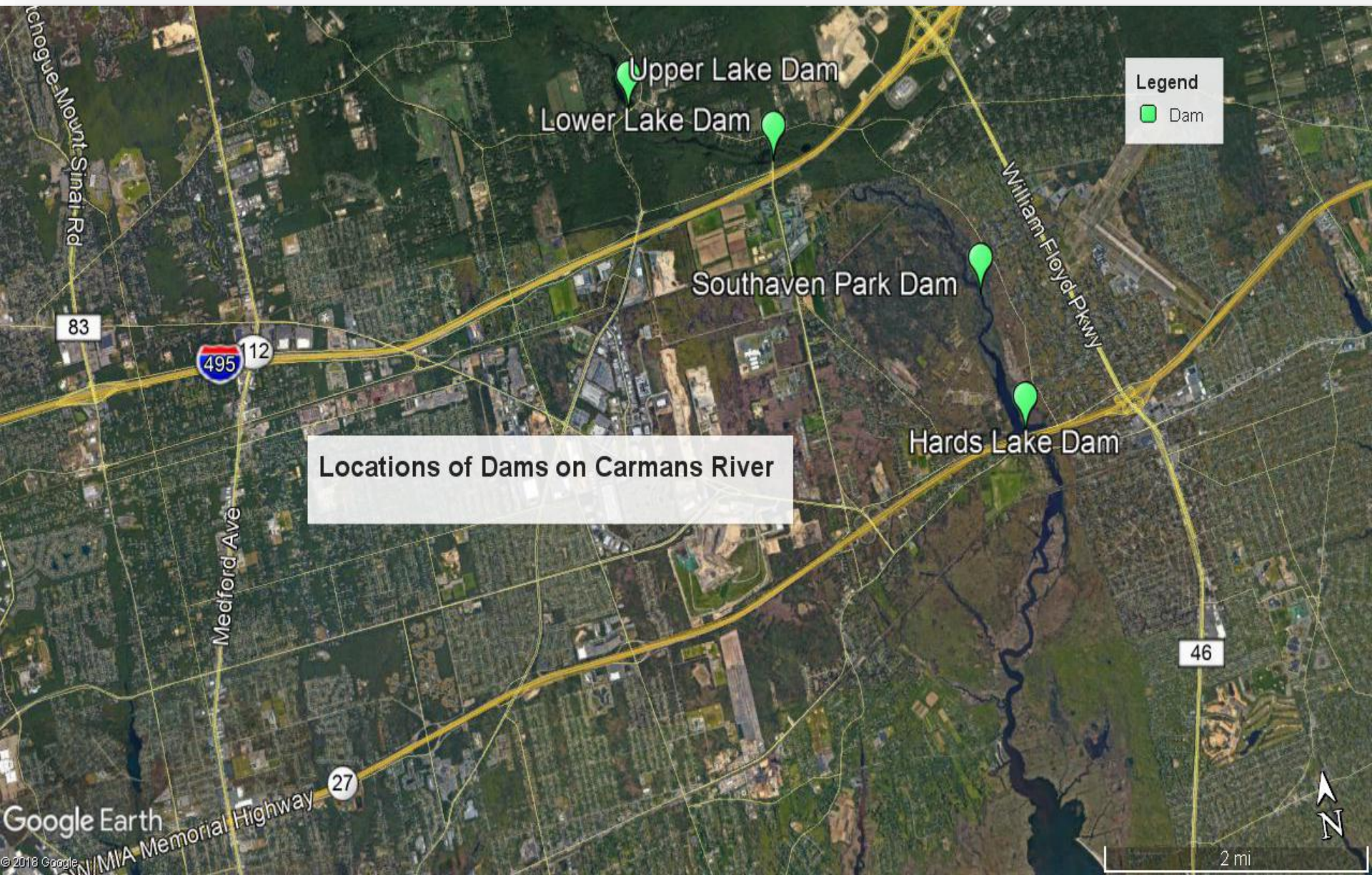
# **Carmans River Fish Passage at Lower Yaphank (Lily) Lake**

**Yaphank Taxpayers and Civic Association  
Meeting**

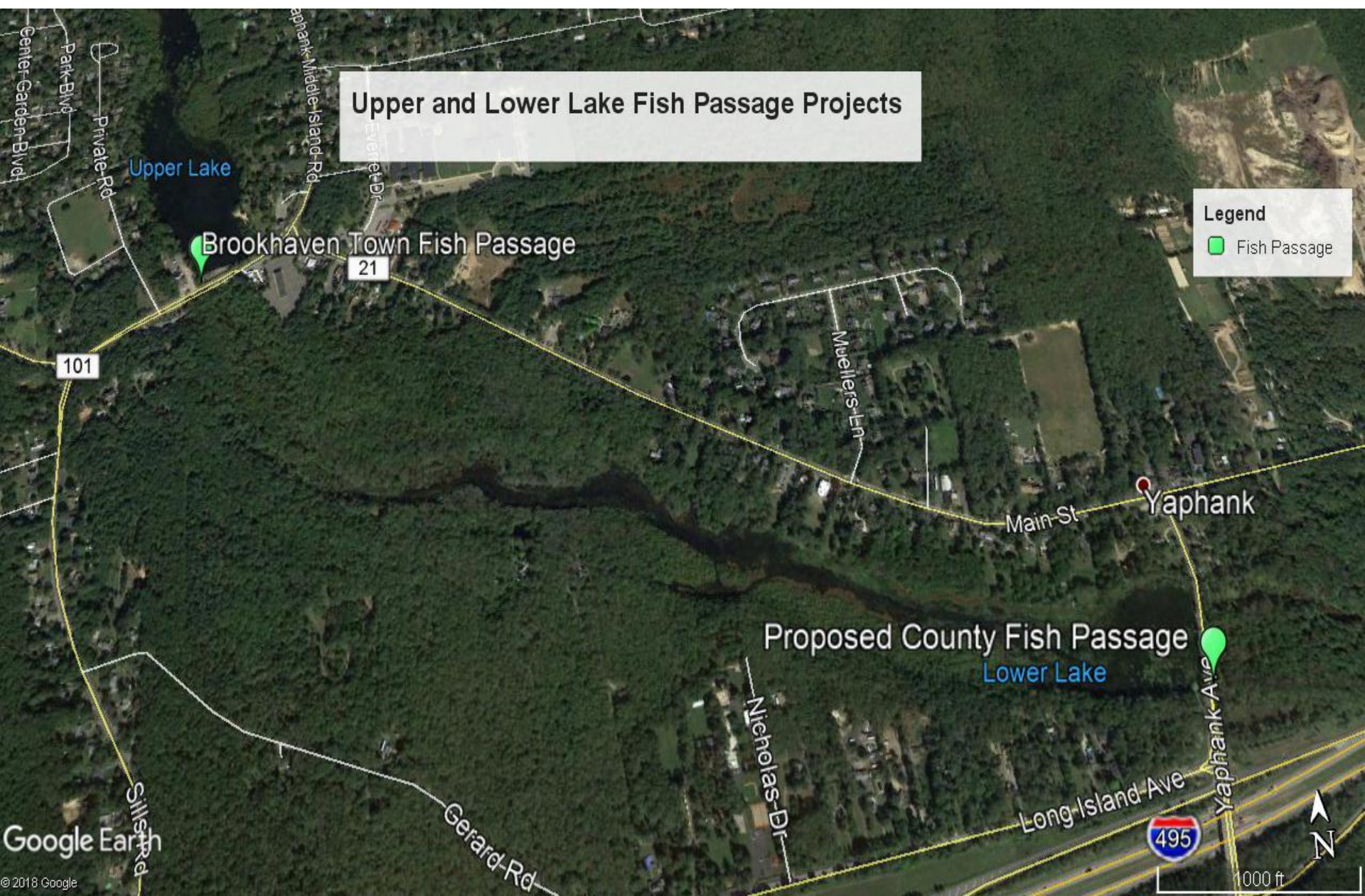
**April 11, 2018**

**Suffolk County Dept. of Economic Development and Planning  
Sarah Lansdale and Frank Castelli**

# Lower Lake Dam is only remaining barrier to fish passage on the Carmans River



# Town of Brookhaven installed Upper Lake fish passage June 2017



Upper and Lower Lake Fish Passage Projects

Legend  
Fish Passage

Brookhaven Town Fish Passage

Proposed County Fish Passage

Lower Lake

**Looking upstream from river towards culvert at Yaphank Ave.**

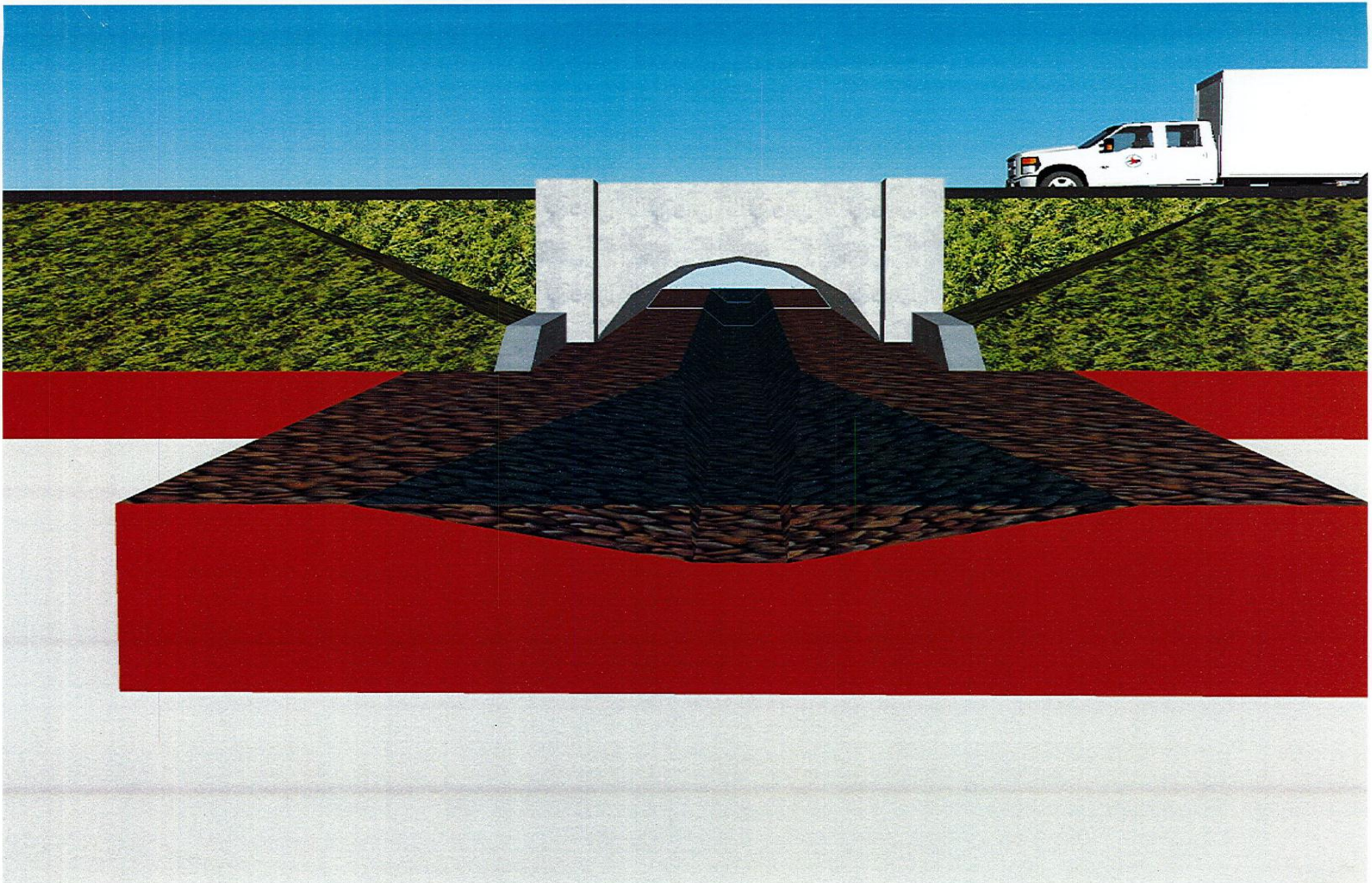


Looking upstream through arch culvert to spillway

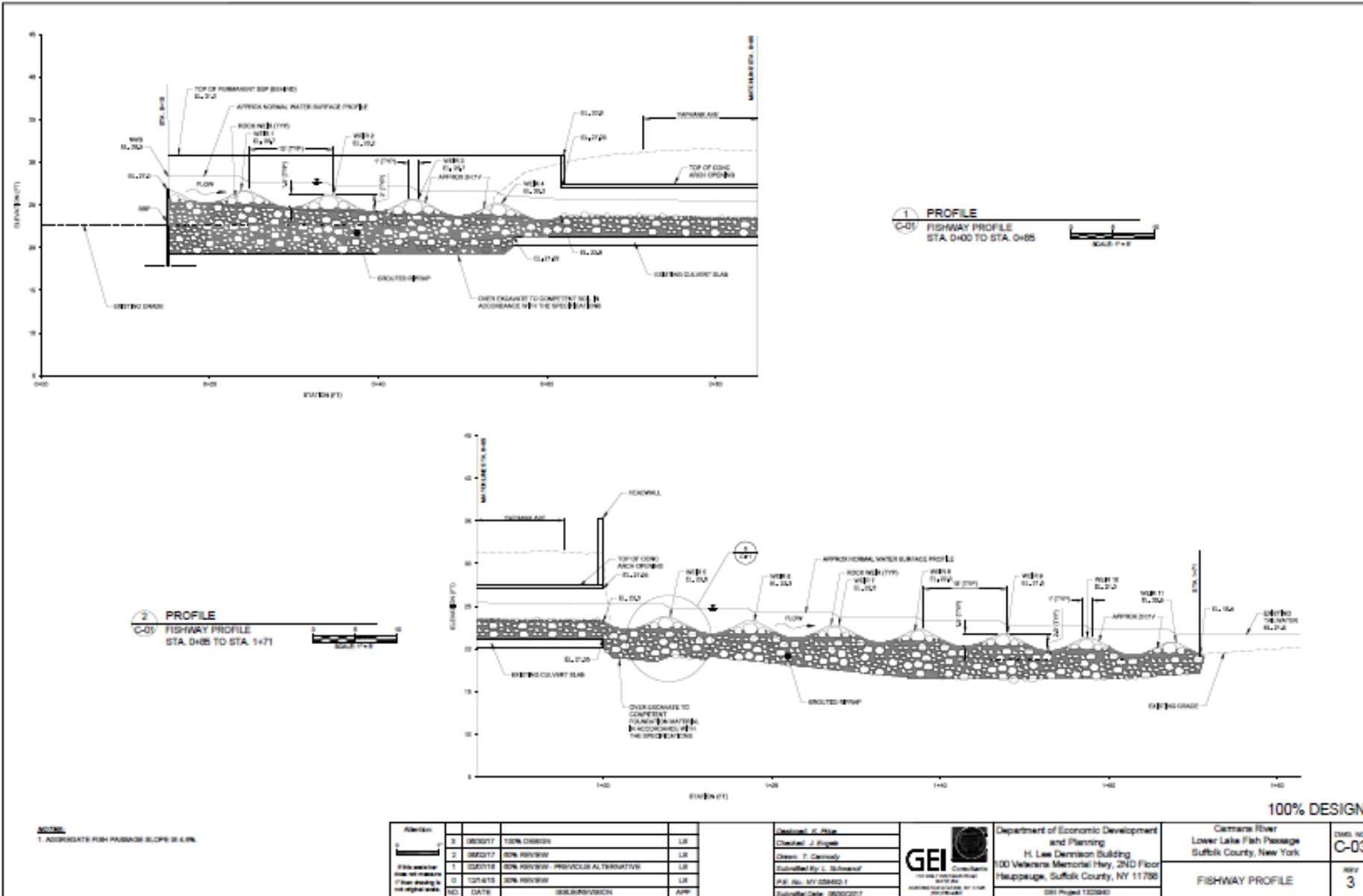




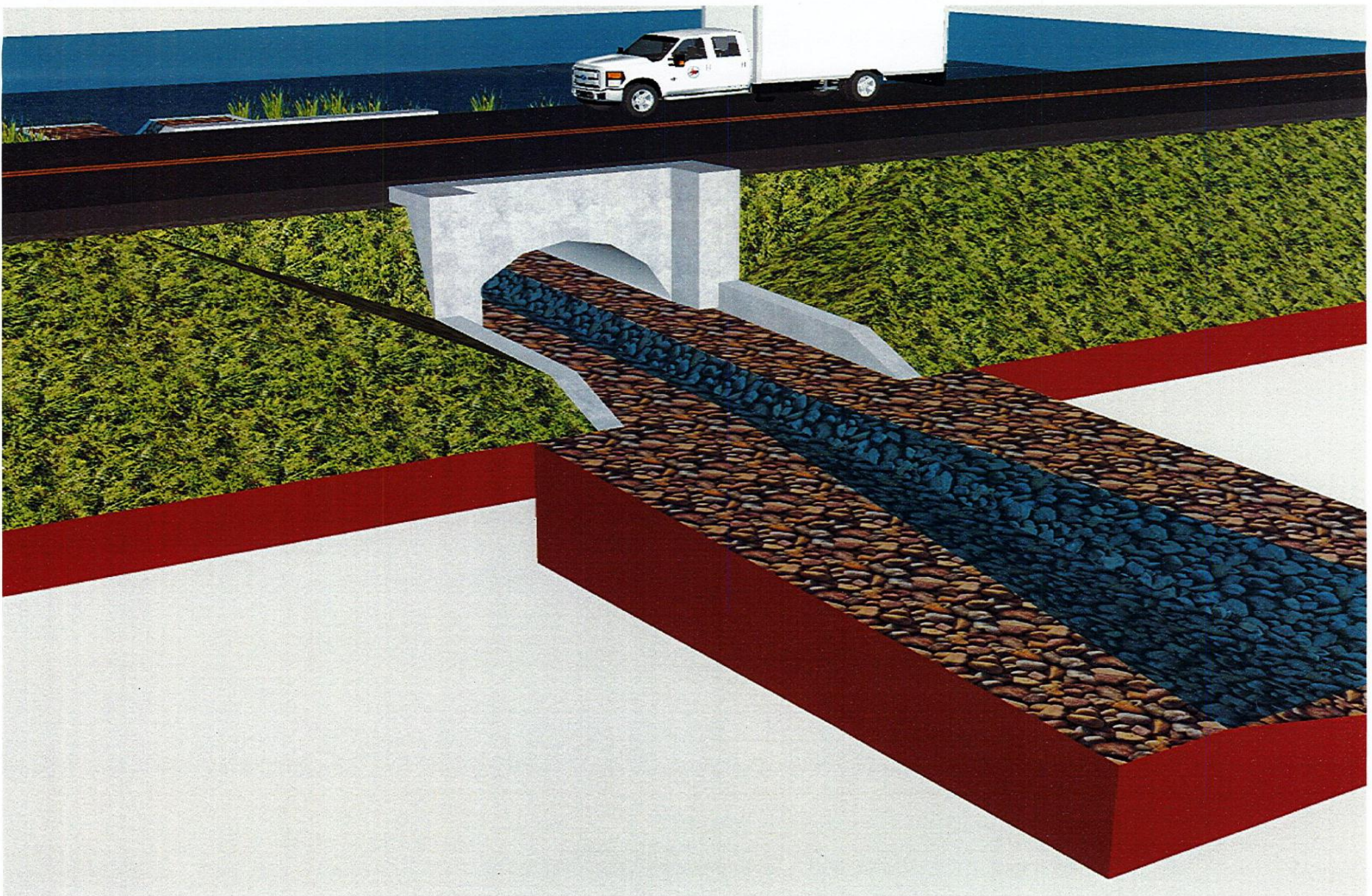
# Fish passage through existing culvert under Yaphank Ave.



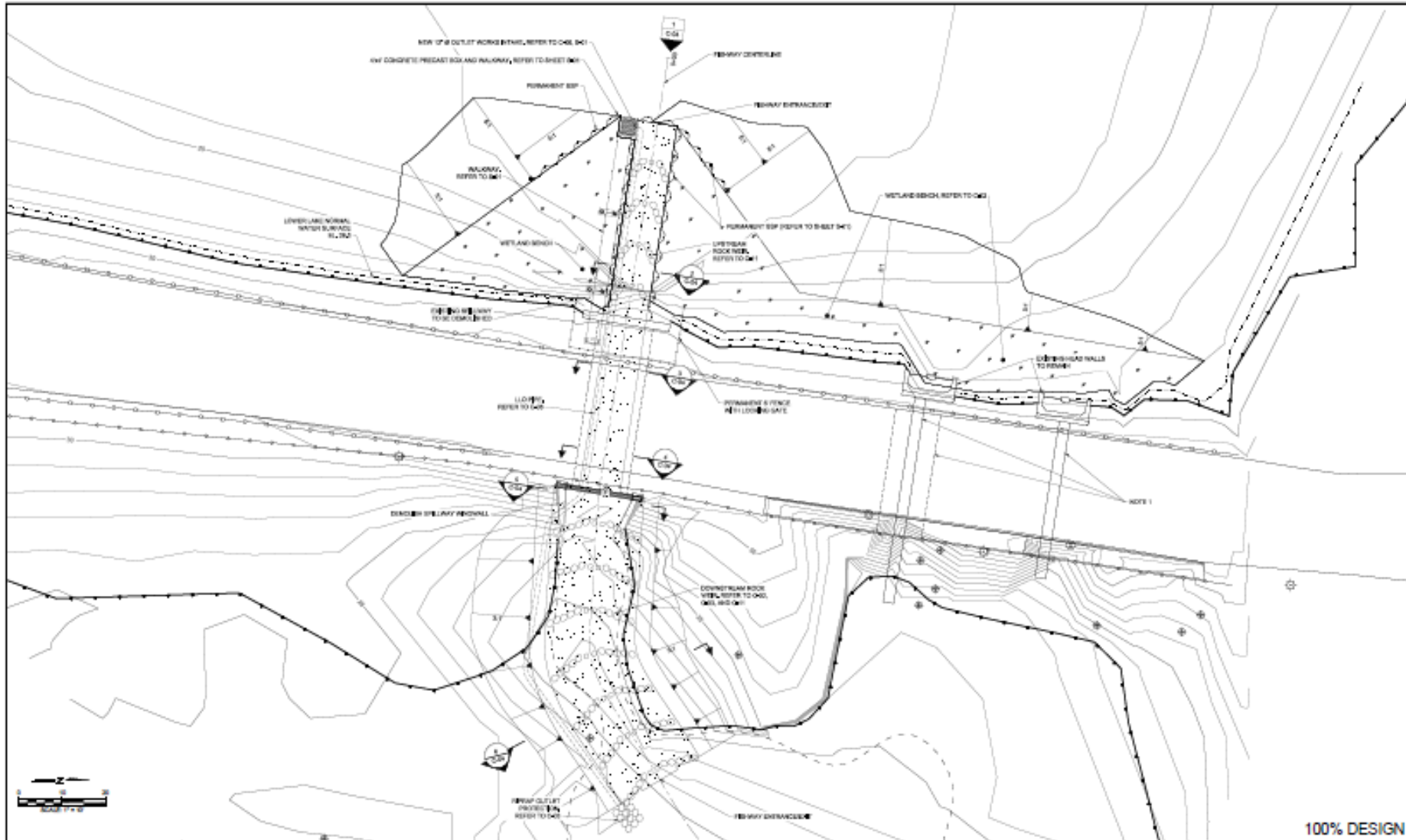
# Open channel step-pool, rock weir design



# Downstream rock weir transitions through existing culvert



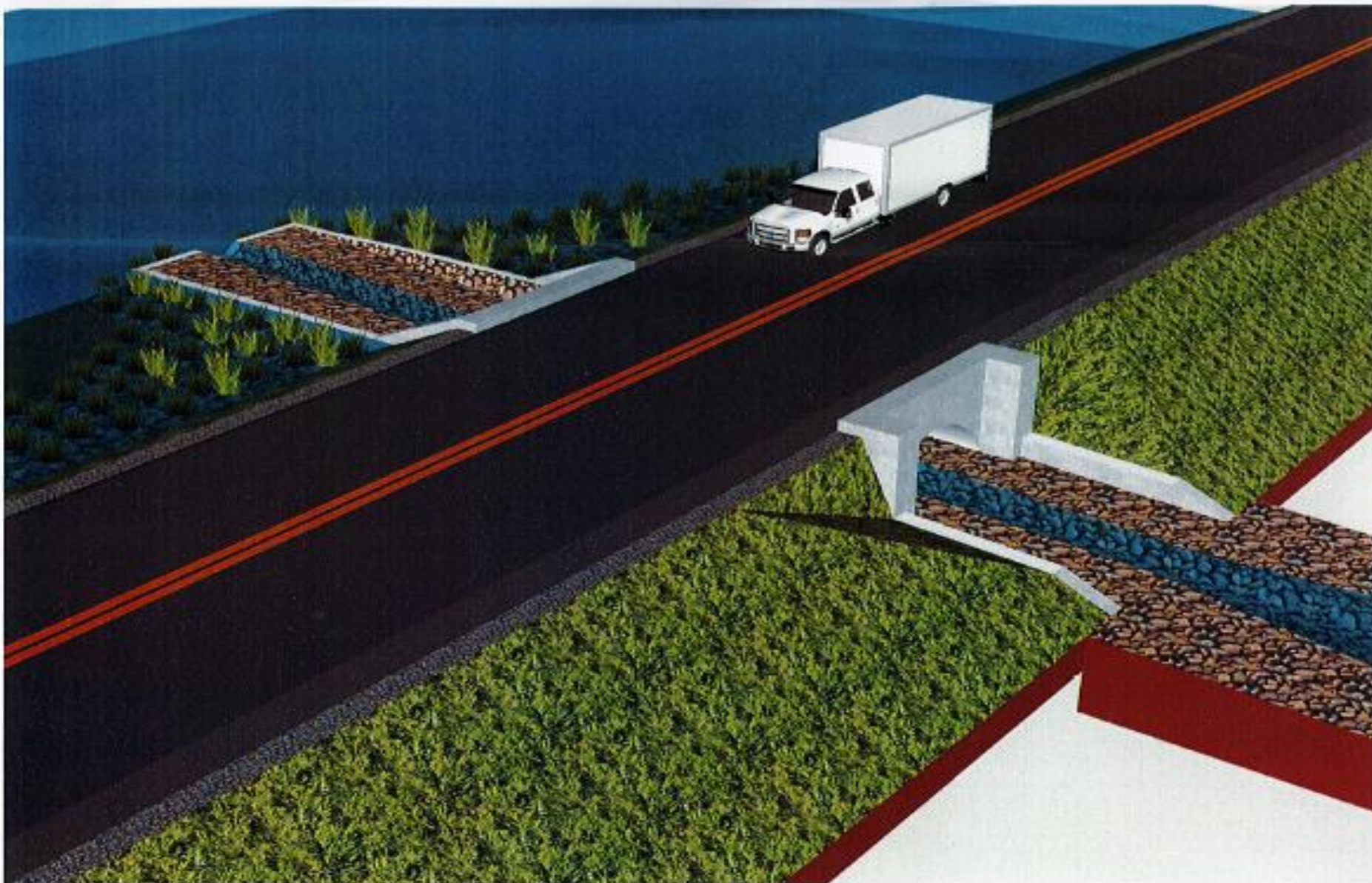
# Fish passage design extending into Lower Lake



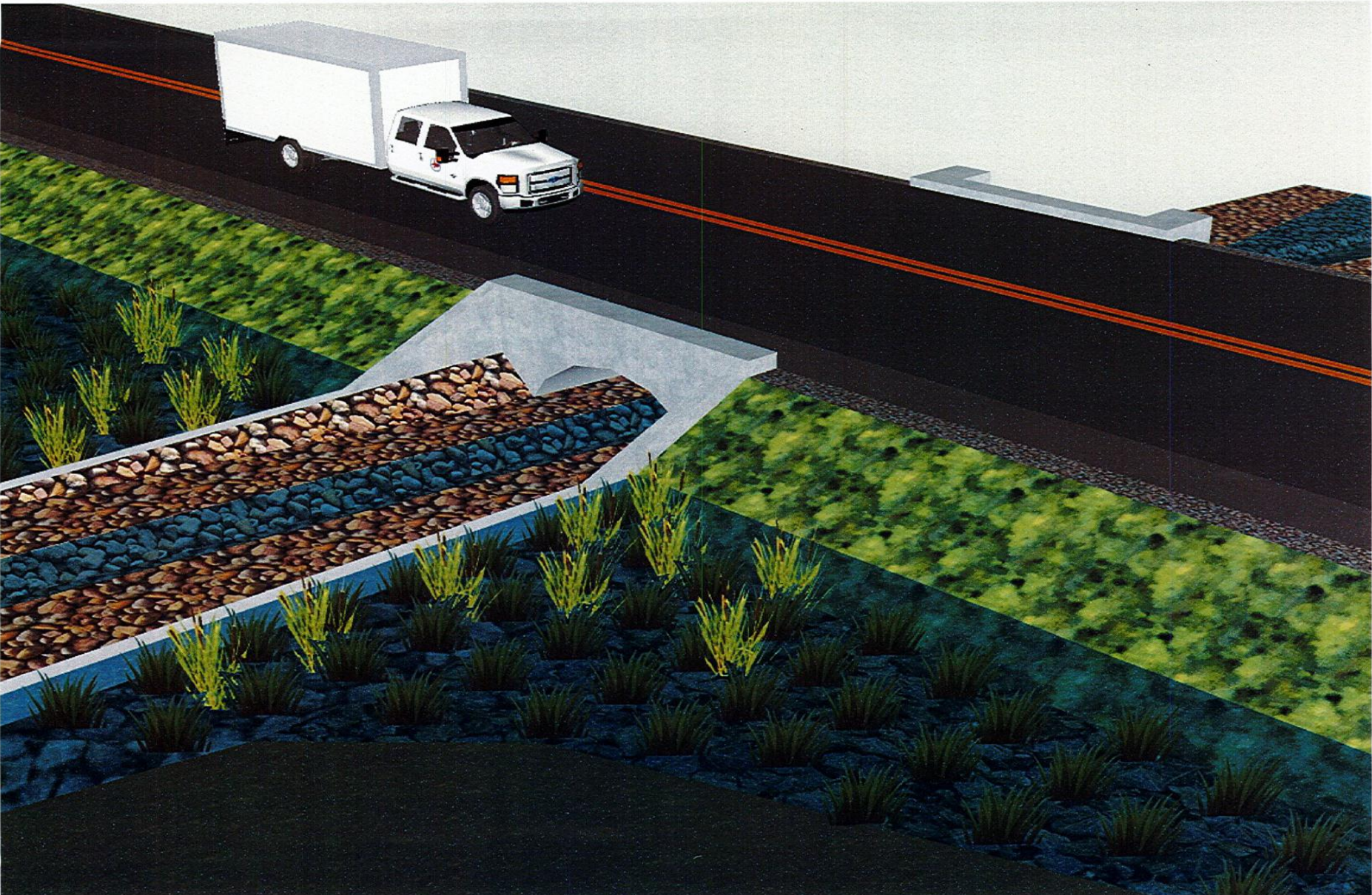
100% DESIGN

<b>NOTES:</b> 1. BEFORE IMPLEMENTATION THROUGH THE PERMITTING PROCESS, THE FOLLOWING SHALL BE REVIEWED IN PLACE IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE CONSTRUCTION OF THE WETLAND MOUND.	<b>Attention</b> If this area has been modified, please refer to the original plan.	3. 08/02/17 10% DESIGN LR	Designer: K. Price Checker: J. Egan Drawn: T. Connolly Submitted By: L. Schreffel P.E. No.: NY 058492.1 Submission Date: 08/02/2017	GEI CONSULTANTS 100 Veterans Memorial Hwy, 2ND Floor Hauppauge, Suffolk County, NY 11798 516-734-1000 www.geiconsultants.com	Department of Economic Development and Planning H. Lee Dennison Building 100 Veterans Memorial Hwy, 2ND Floor Hauppauge, Suffolk County, NY 11798 516-734-1000 001 Project 1223842	Catskill River Lower Lake Fish Passage Suffolk County, New York C-01
		2. 08/02/17 50% PERMISSIVE LR				

# Lakeside open channel fish passage contained by sheet pile



# Native planted aquatic benches on either side of fish passage



**Questions?**