

# River Reintroduction Into Maurepas Swamp

## *Project Status Update*

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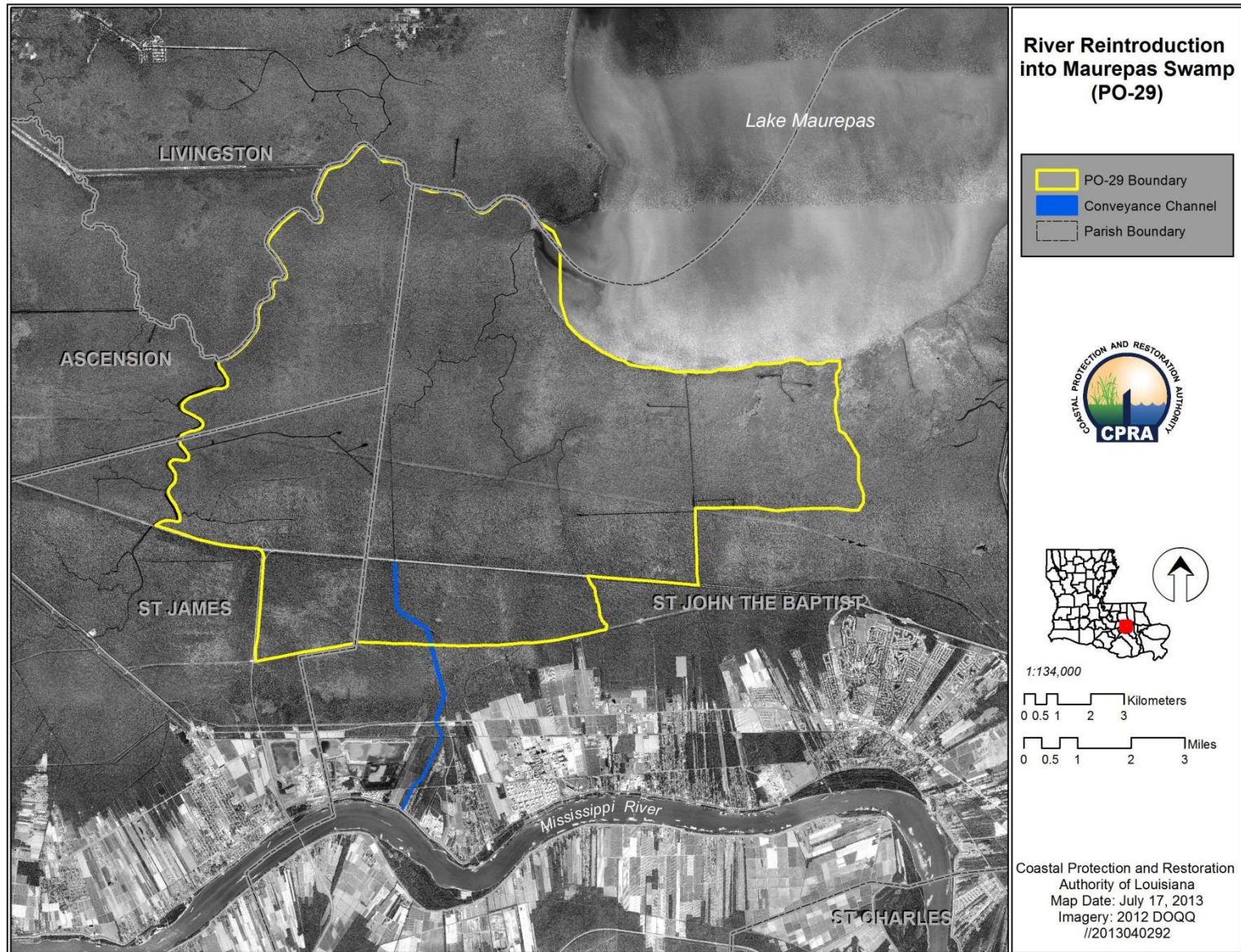


Coastal Protection and  
Restoration Authority of Louisiana



**committed to our coast**

# PO-29 Project Area (45,000 acres)



# Project Goal

Restore the connection between the Mississippi River and the Maurepas Swamp to increase swamp ecosystem health and function.

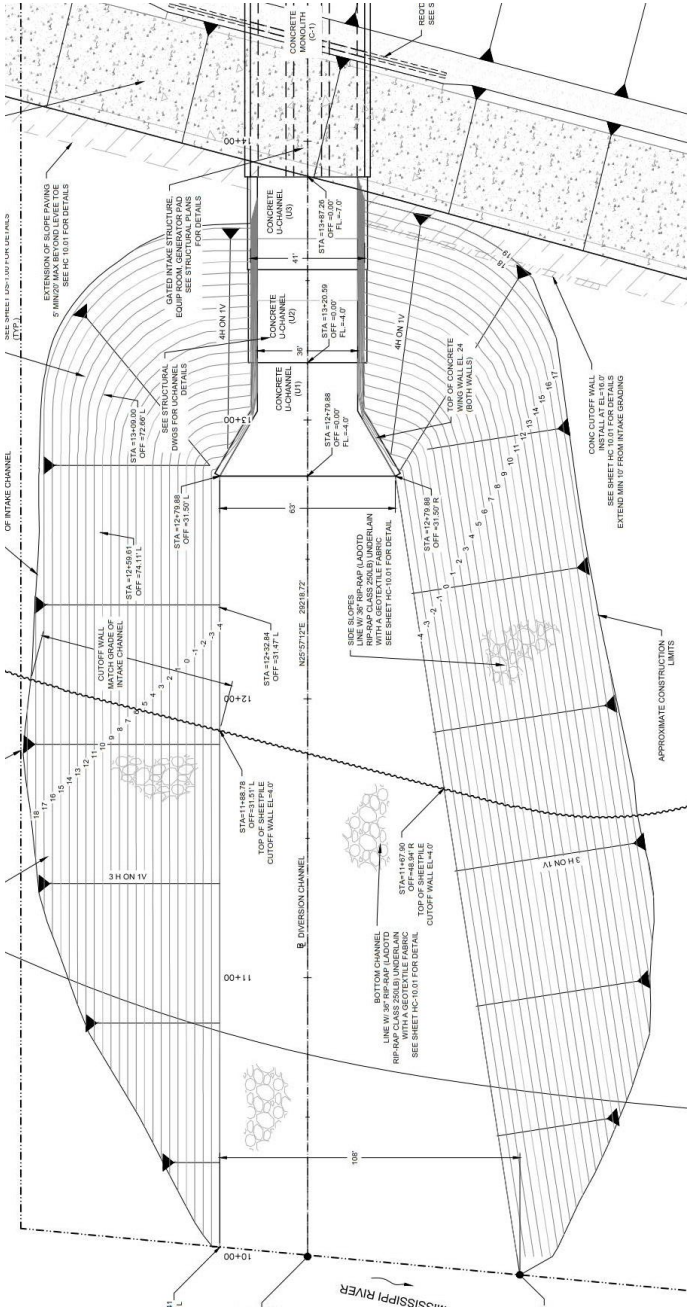




# Main Project Features

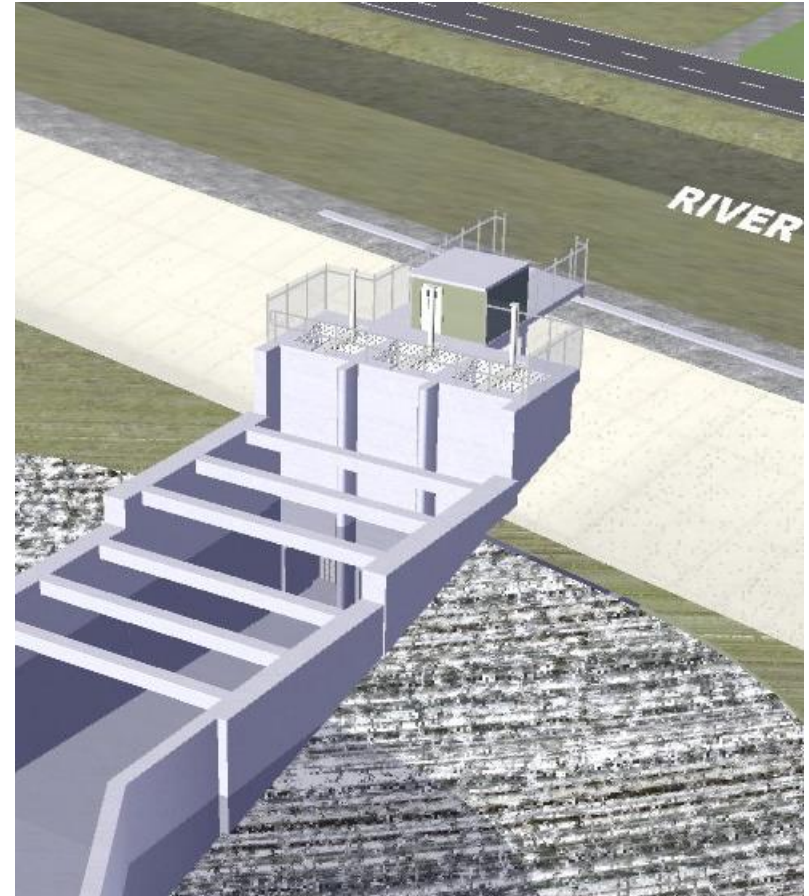
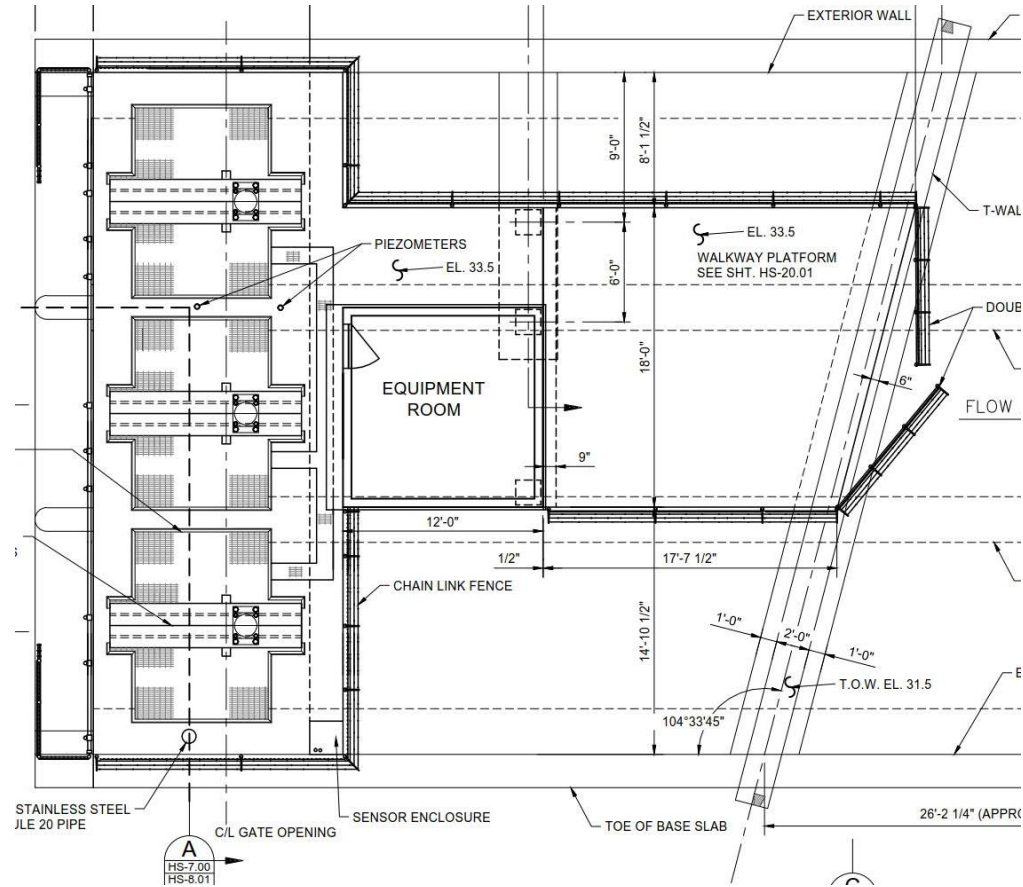


- Mississippi River Intake
- Headworks
- River Road Crossing
- Sedimentation Basin
- CNN RR Crossing
- Conveyance Channel
- KCS Railroad
- Airline Highway Crossing
- I-10 Crossing
- Ancillary Features
  - Lateral Release Valves
  - Check Valves Under I-10
  - Weirs At Bayou Secret & Bourgeois Canal
  - Embankment Cuts

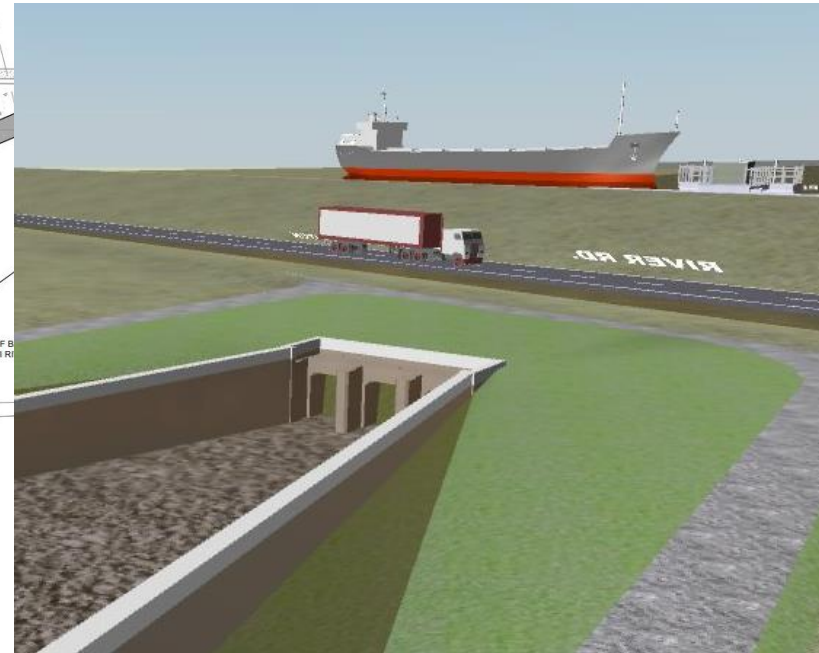
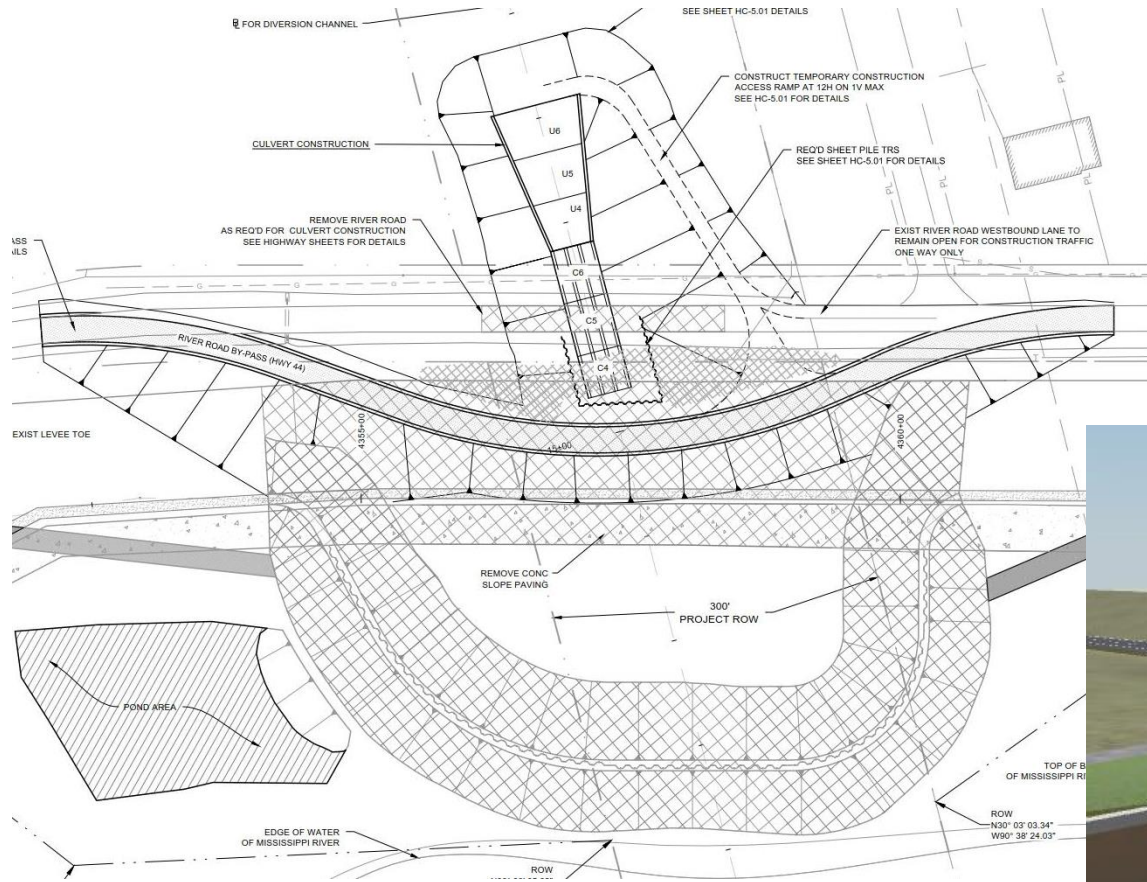
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# Main Project Features: Headworks

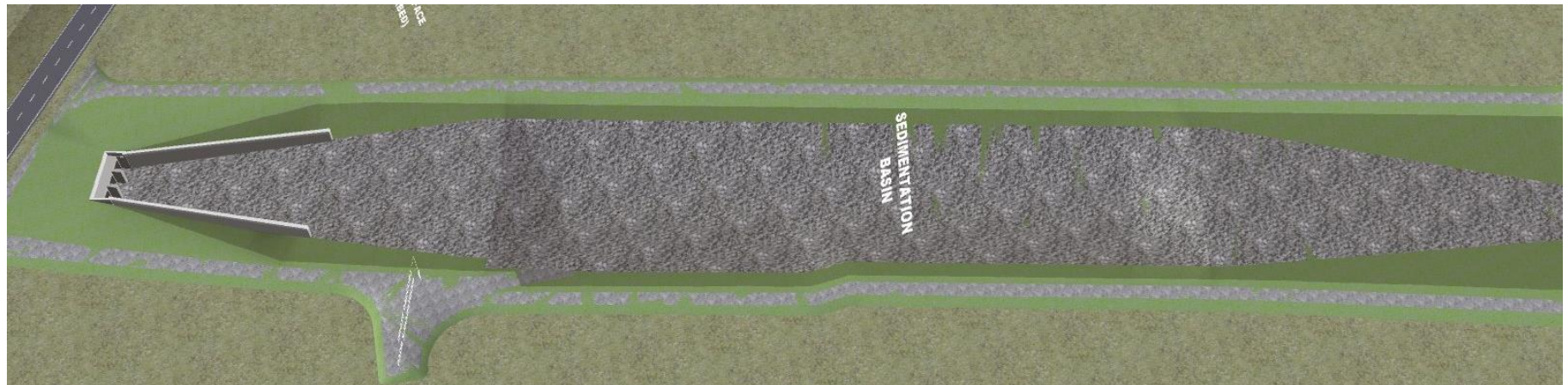
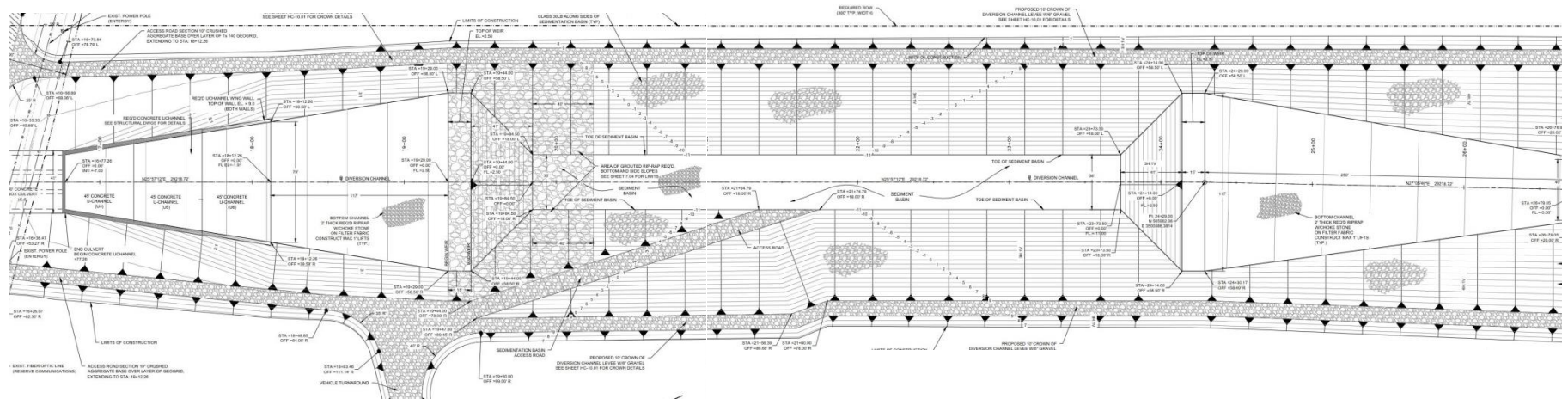


# Main Project Features: River Road Crossing



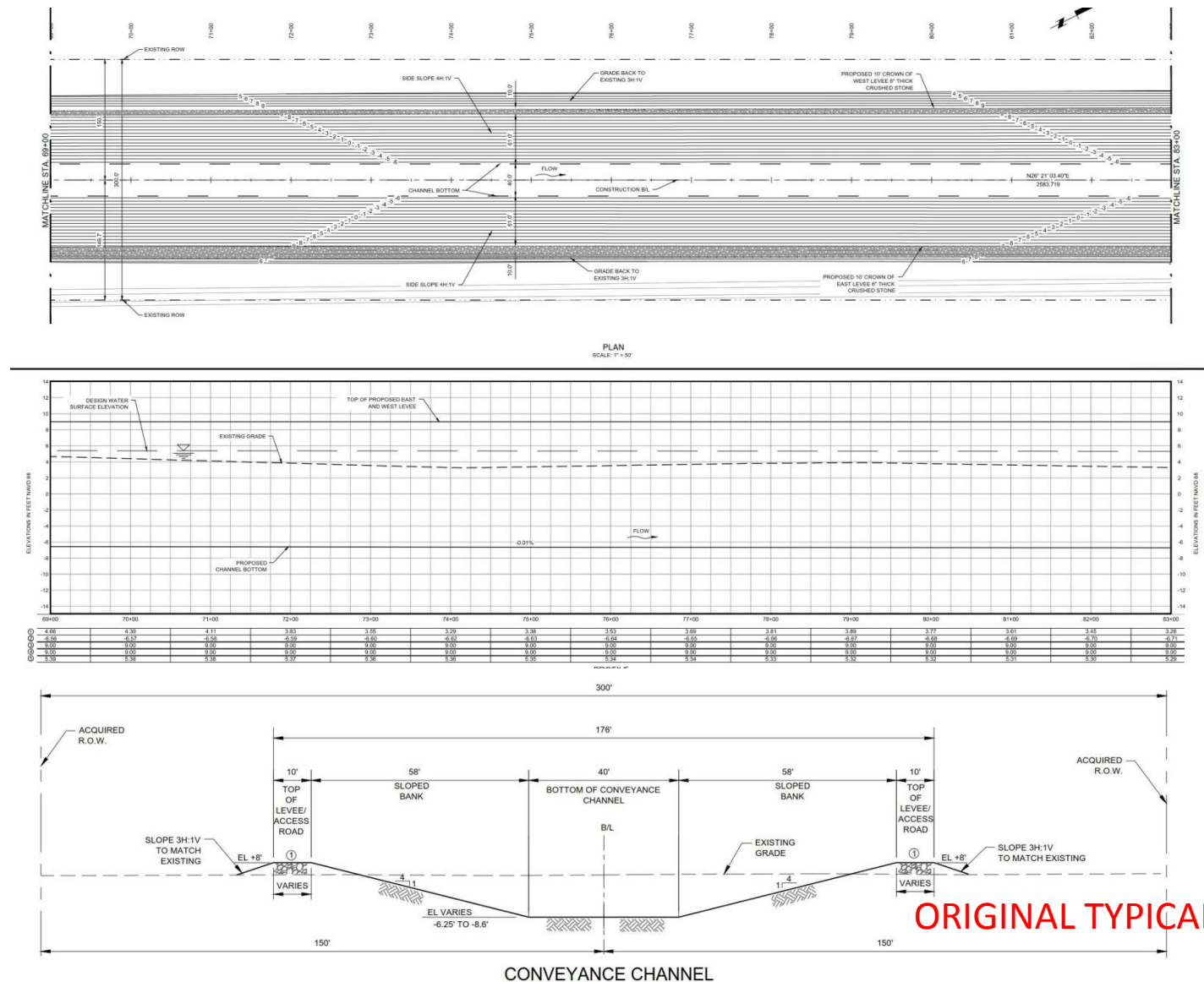


# Main Project Features: Sedimentation Basin

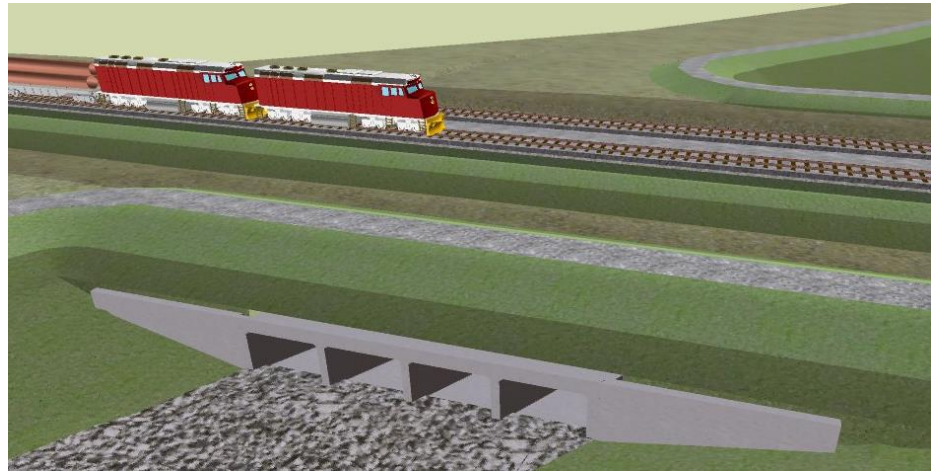
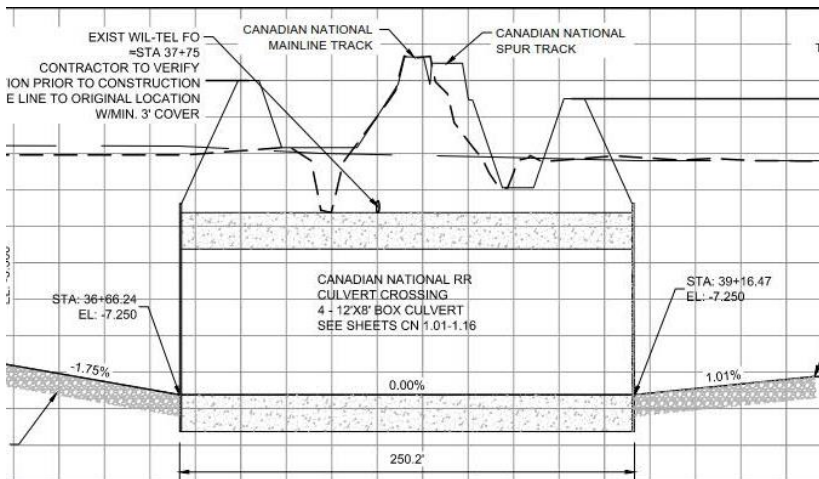
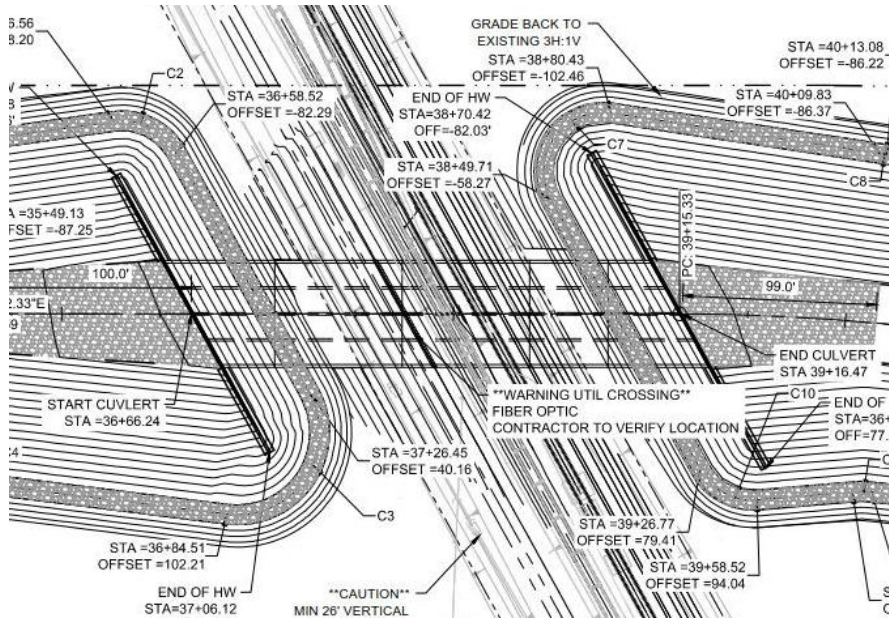




# Main Project Features: Conveyance Channel

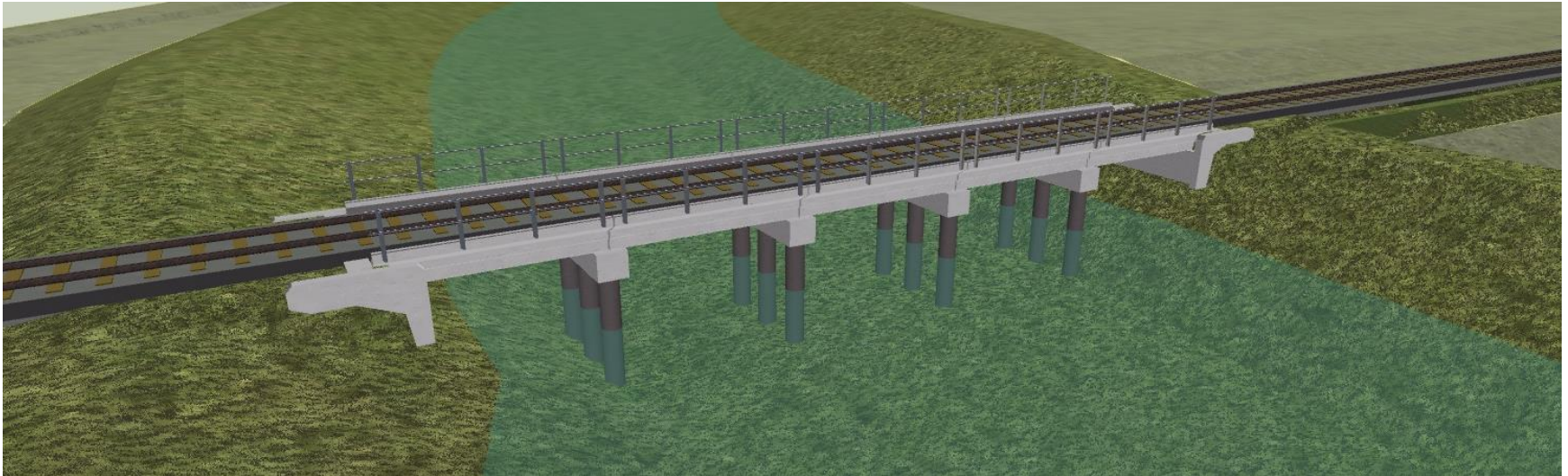
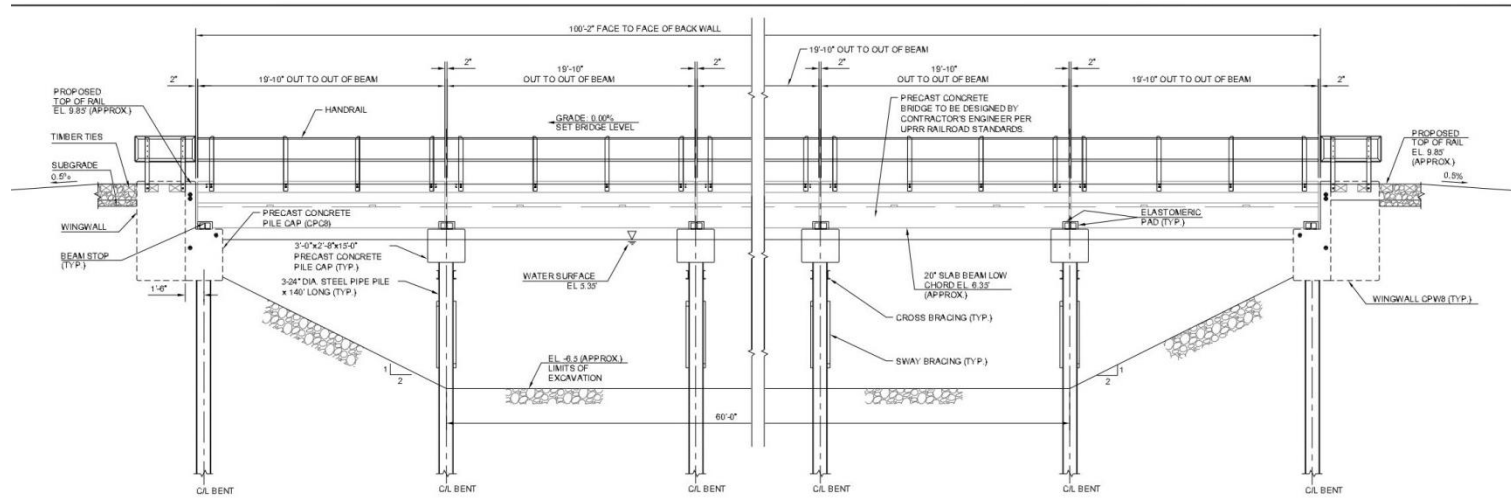


# Main Project Features: CN RR Crossing



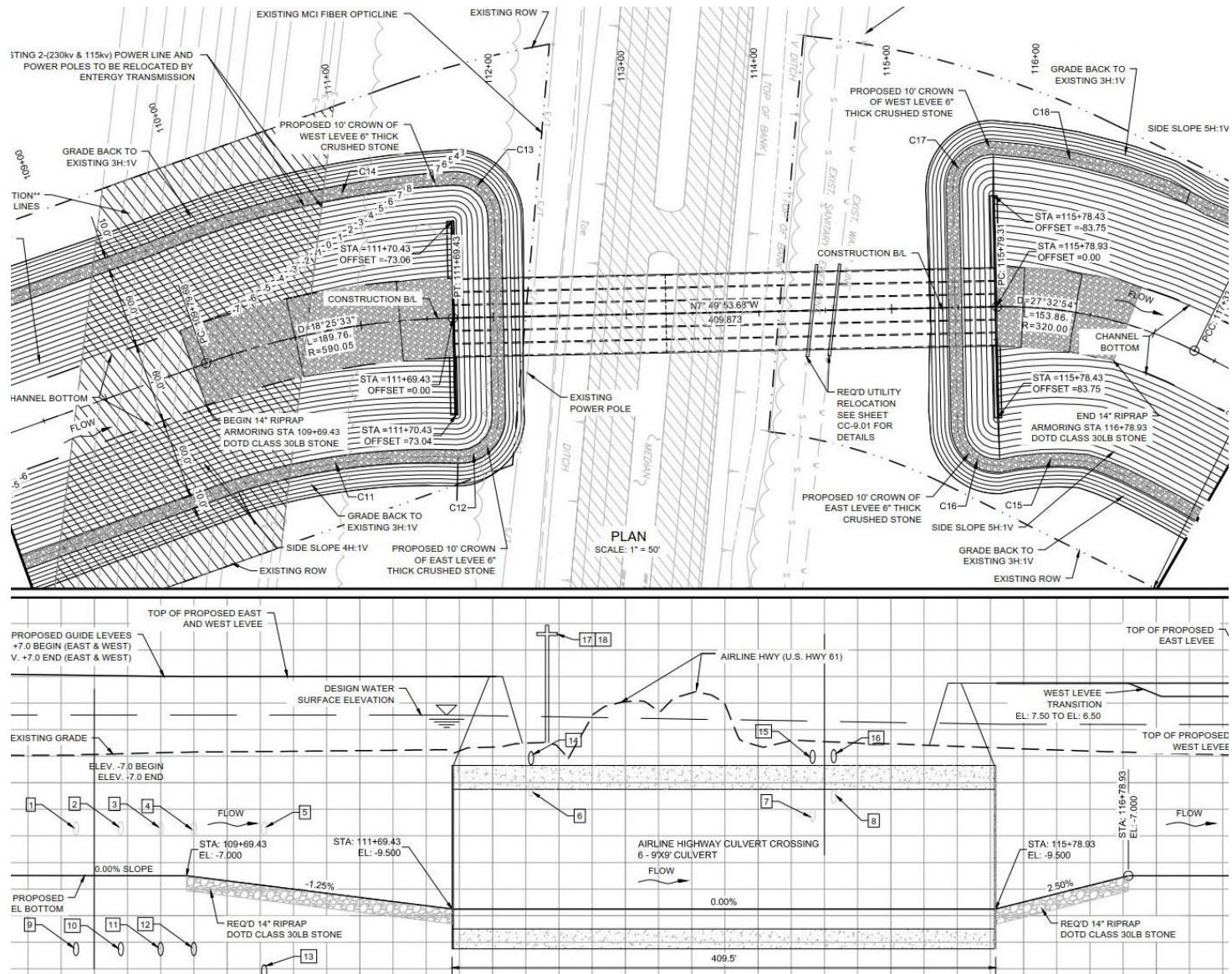


# Main Project Features: KCS RR Crossing





# Main Project Features: Airline Hwy Crossing

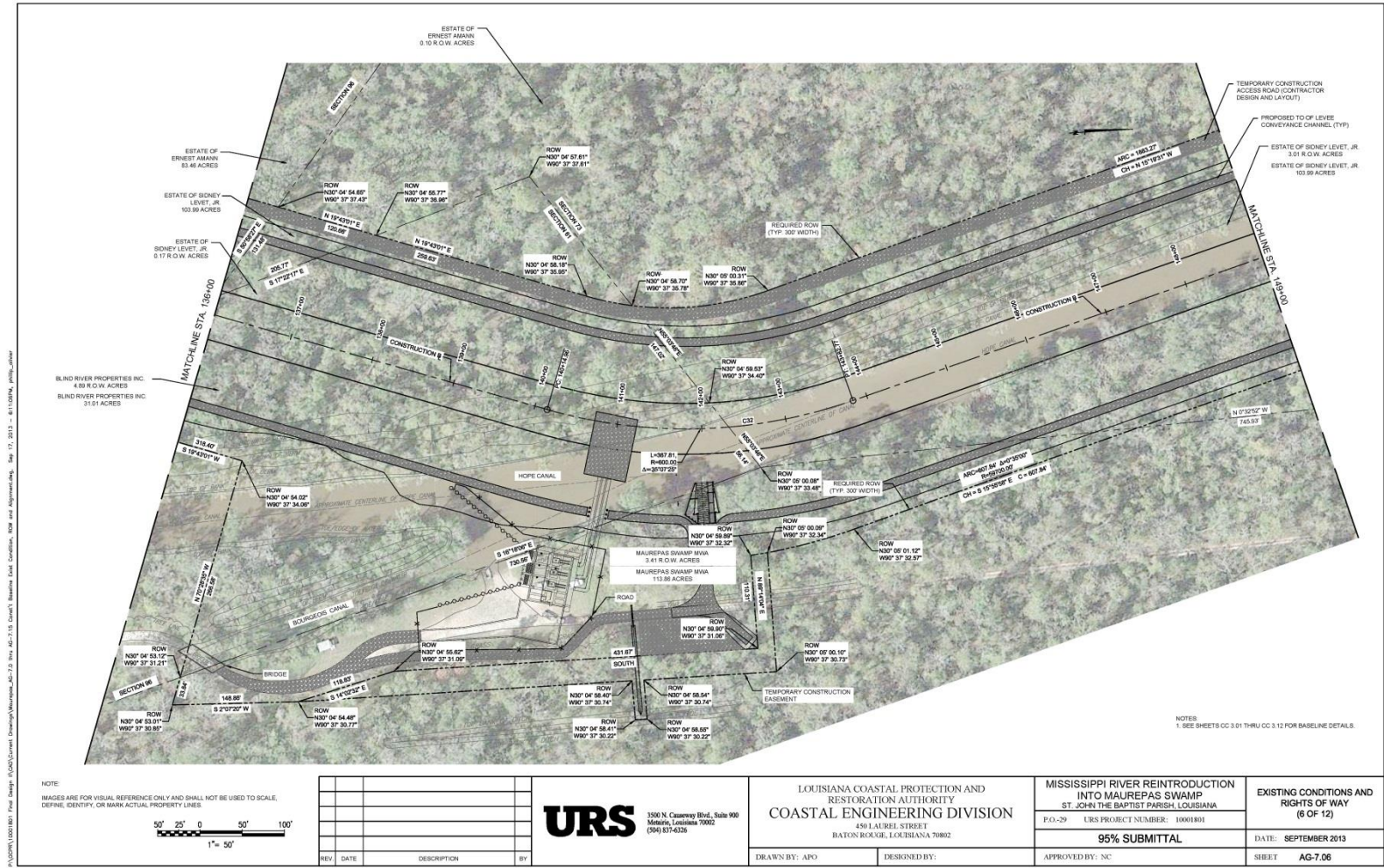


# Main Project Features: Pump Station



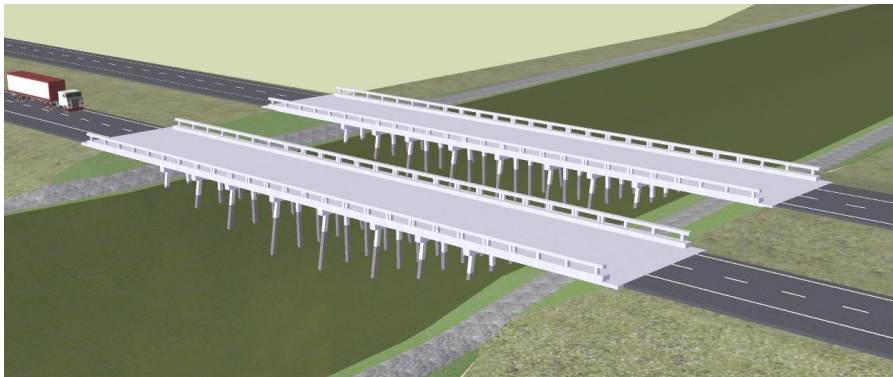
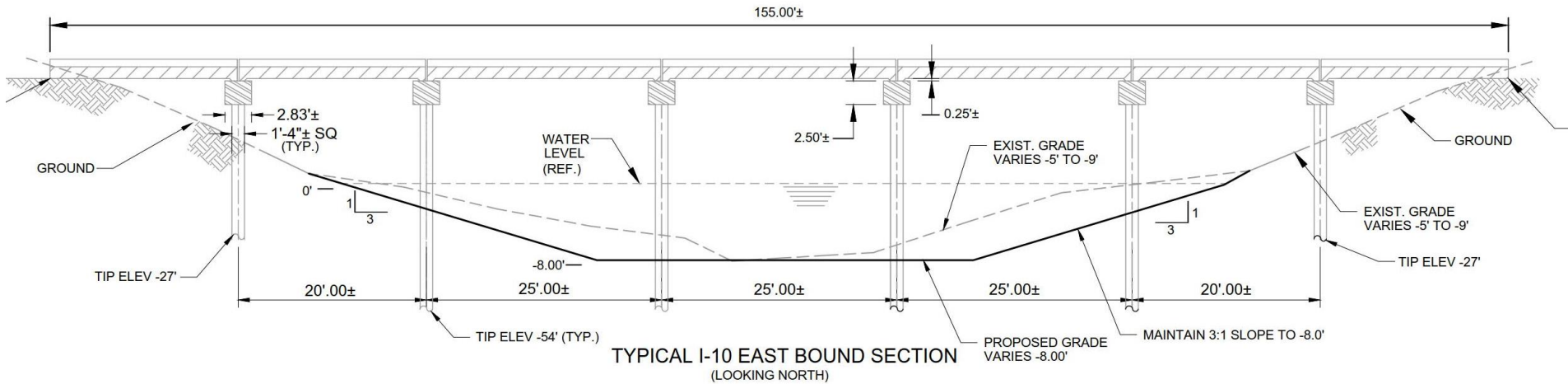


# Main Project Features: Pump Station





# Main Project Features: I-10 Crossing



# Moving Forward/Next Steps

- Landrights
- Permitting
- Operations, Maintenance, Monitoring, Adaptive Management
- Final Design

# Status of Landrights

- Title updated through May 2015
- Title will need to be brought up to date
- Some access routes have changed, additional title work will be needed.
- Acquisition tracts will need to be surveyed
- Tracts will need to be appraised
- Proceed with making offers to owners





# Permitting

- Joint Permit Application Spring 2013
- Joint Public Notice August 2013
- USACE issued EA determined and EIS will be required May 2014
- Re-engage USACE Fall of 2017
- Next Step Funding 214 and 3<sup>rd</sup> party EIS?

# What is an OMMAM Plan?

- **O**perations
- **M**aintenance
- **M**onitoring
- **A**daptive **M**anagement



# Maurepas Technical Advisory Group (TAG)

## Chair

**Dr. Ken Krauss: USGS-NWRC**

## Members

**Dr. Jim Chambers: LSU Ag Center/RNR**

**Dr. Richard Keim: LSU Ag Center/RNR**

**Dr. Gary Shaffer: SELU**





# Maurepas Technical Advisory Group (TAG)

## Purpose

- **Provide recommendations for developing Operations, Maintenance, Monitoring, and Adaptive Management (OMM&AM) plan**
- **Assist in developing targets for ecological success of the project**
- **Assist in addressing remaining scientific uncertainties**

# Performance Measures

- Hydrology
- Forest Structure Integrity
- Salinity
- Soil surface elevation
- Nutrients

**\*\*Note land building is NOT a performance measure**



# Implementation of OMMAM

- Possible need for additional outfall management features
- Differential timing of performance measures and project success





# Remaining E&D Tasks

- H&H model, Headworks, Sedimentation Basin, Conveyance Channel, RR Crossings, Airline Hwy Crossing, Pump Station, I-10 Crossing, North Swamp Water Control Structures
- LDOTD permit (US 61), USACE Section 404/408/10 comments, RR comment resolution
- Pipeline/Parish/Landowner coordination
- Real Estate and ROW drawing updates
- Survey updates
- Supplementary soil sampling
- Possible re-design to accommodate WSLP project
- Final Plans and Specs



# Project Schedule

- Spring 2014: 95% Design
- April 2017 submitted application for RESTORE Pot II E&D Funding
- September 2017 Received RESTORE Funding
- 2017-2020: Permitting, Landrights, Final Design, Pre-construction Monitoring and Modeling
- Post-construction and beyond: implementation of OMMAM plan



# Project Funding Breakdown

- RESTORE Grant \$14,190,000
  - E&D \$3.2 M
  - Permitting \$3.6 M
  - Landrights \$2.5 M
  - Ops, Mon., Maintenance, Adap. Man. \$3.0 M
  - CPRA \$1.9 M

