



**OBG PRESENTS:**

**Pre-Bid Meeting – Contract # NAT17001-DAMCONST  
Improvements to Delaware Dams**

March 8, 2017, 10:00 am



# AGENDA

General Bid Information

Project Overview

Improvements to Chipmans Pond Dam

Improvements to Concord Pond Dam

Improvements to Craigs Pond Dam

Bid Form and Contract Requirements

Questions



# Project Participants

			
<p><b>DNREC Division of Fish and Wildlife</b></p>	<p><b>DNREC Division of Watershed Stewardship</b></p>	<p><b>Delaware Department of Transportation</b></p>	<p><b>O'Brien &amp; Gere Engineers, Inc.</b></p>
<p><b>Owner</b></p>	<p><b>Project Administrator / Funding</b></p>	<p><b>Owner</b></p>	<p><b>Project Engineer</b></p>
	<p>David Twing, P.E. Janice Shute, P.E.</p>		<p>Robert Bowers, P.E. Dana Pizarro, P.E. James Quinn Stephen Szewczak, P.E.</p>

## Bid Information

Sealed bids are due Wednesday, March 29, 2017 at 3 pm

Bids received at the reception desk of the DNREC Office at 89 Kings Highway, Dover, DE 19901

Bidders MUST purchase Contract Documents to Bid

- Contract Documents can be obtained from Colleen Ponden at the DNREC Office at 89 Kings Highway, Dover, DE for \$50
- Checks made payable to 'DNREC'



## Bid Information

**Bids must include ALL attachments**

- Subcontractor List
- Non-Collusion Statement
- Affidavit of Employee Drug Testing Program
- Bid Security
- Summary Control of Water Plan for Chipmans Pond Dam

**Completion  
Time:**

**500  
calendar  
days**



## Notes to Bidders

There will be no site walkthrough with the Owner. All sites are public and bidders are encouraged to inspect the sites on their own.

Attention is called to the Instructions to Bidders, General Conditions, Supplementary General Conditions and General Requirements in Division 00 of the Contract Documents.

Prevailing wage rates apply to this contract.

Owner has obtained environmental permits for the project. Contractor to obtain construction dewatering permits from DNREC.

Available Geotechnical Data has been provided as reference drawings.



# Bidder Questions

Questions must be submitted in writing to DNREC

- Address questions to Janice Shute
- Email is acceptable: [Janice.Shute@state.de.us](mailto:Janice.Shute@state.de.us)

All questions must be received by Friday, March 17, 2017

Addenda will be posted to [bids.delaware.gov](http://bids.delaware.gov)

Pre-Bid Meeting Attendee List will be posted to [bids.delaware.gov](http://bids.delaware.gov)



# Project Overview

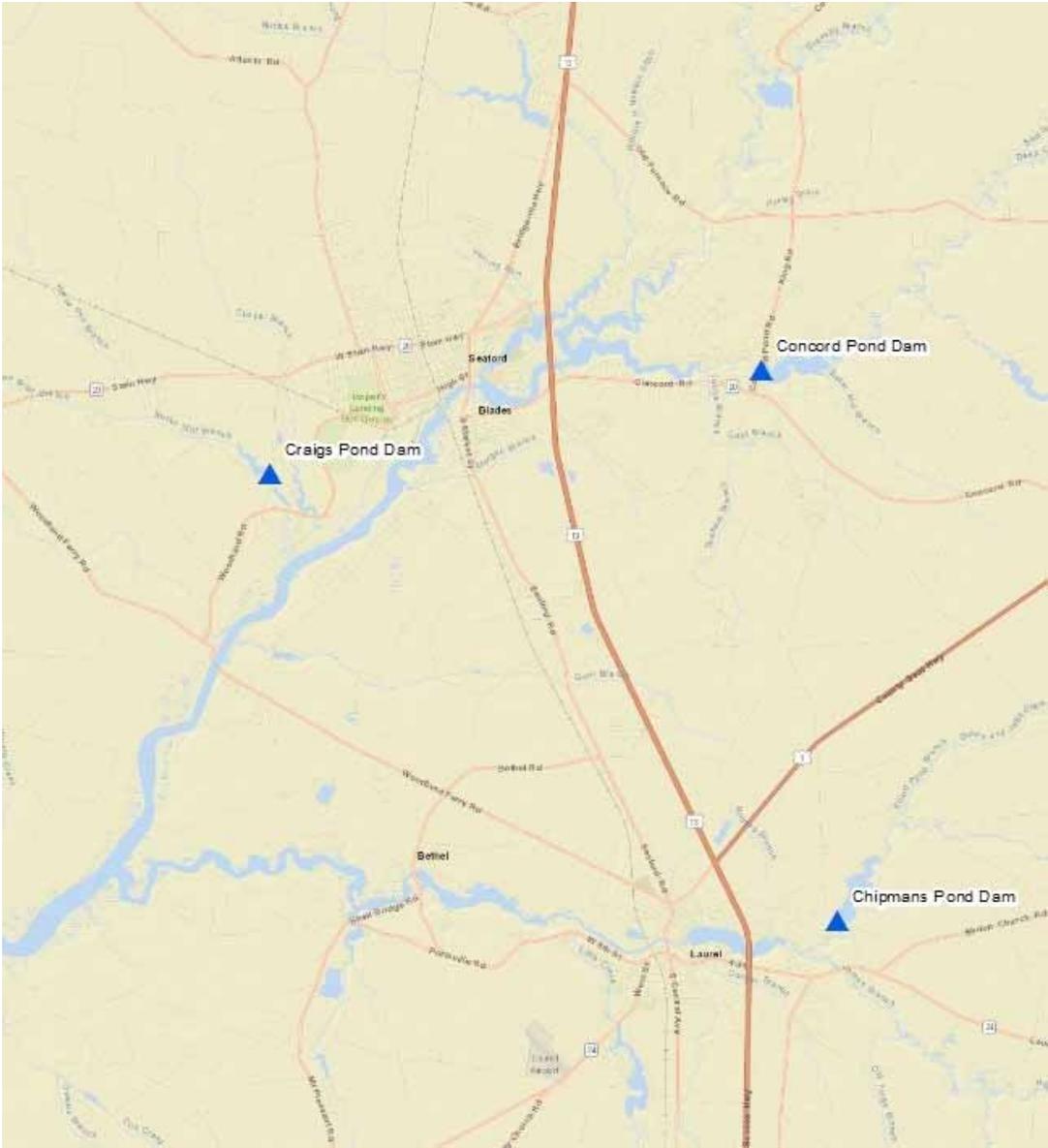
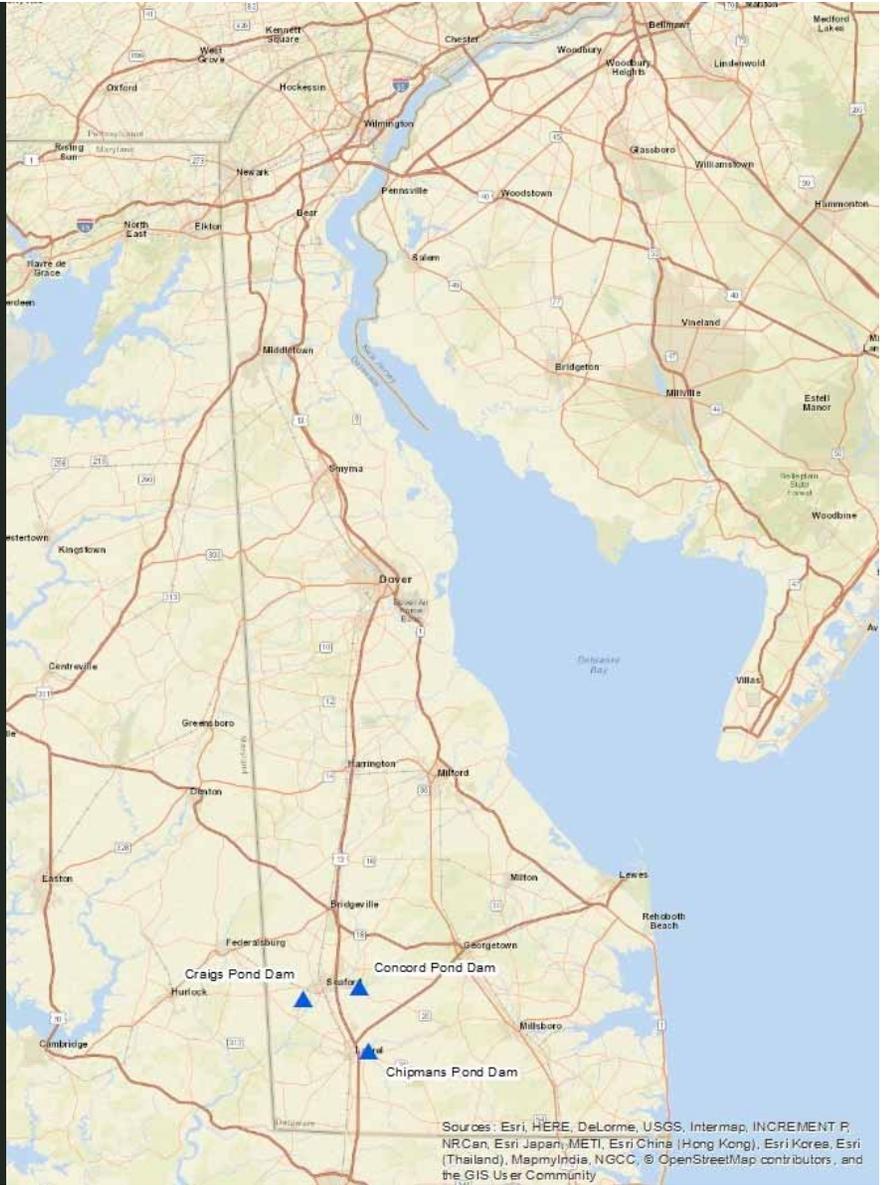
Improvements to  
3 dams in Sussex  
County, DE

- Chipmans Pond Dam in Laurel, DE
- Concord Pond Dam and Craigs Pond Dam in Seaford, DE

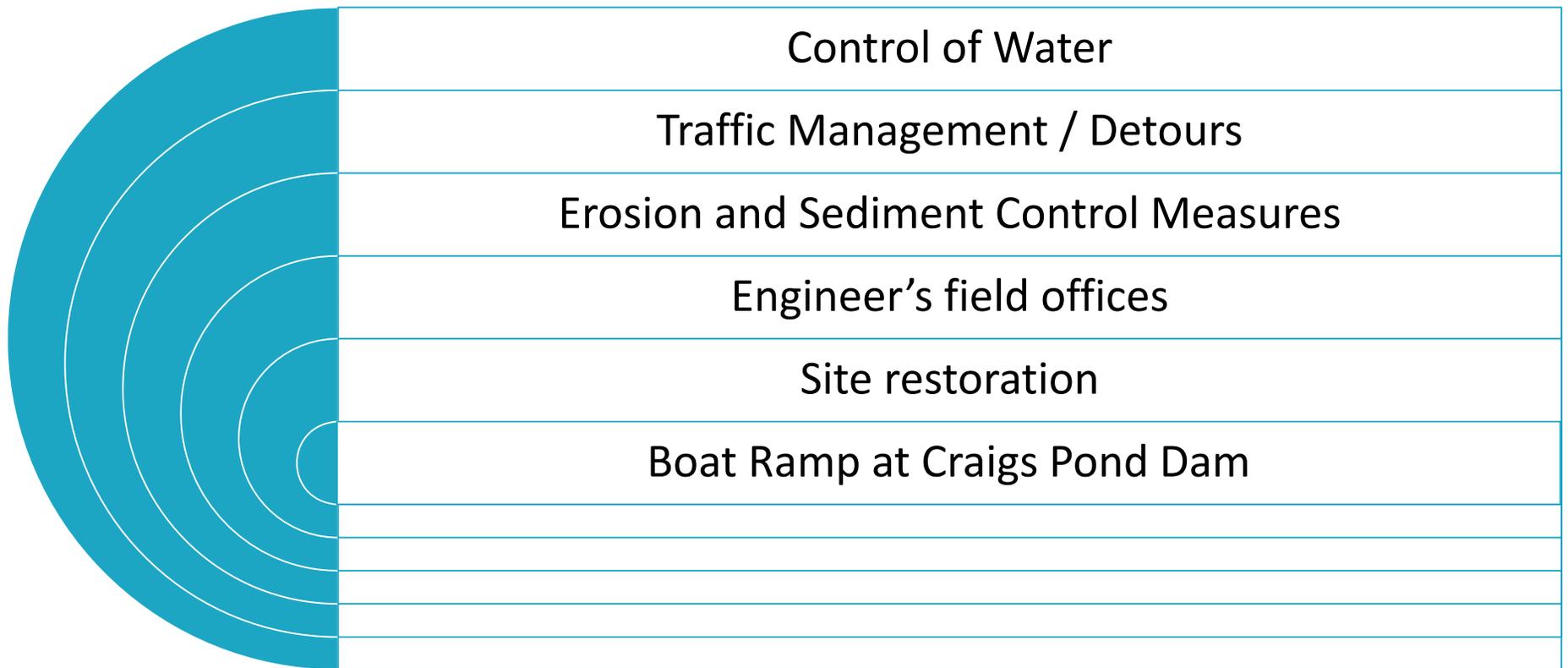
Project Goals:

- Provide operable gates and low level outlets
- Improve operational safety and efficiency
- Repair minor deficiencies
- Address public safety issues





# Additional Project Scope





















# Chipmans Pond Dam – General Scope of Improvements

Selective Demolition

Concrete Repairs – Headwall and Slab

Steel H-Piles and Concrete Grade Beam

Structural Steel Gate Support

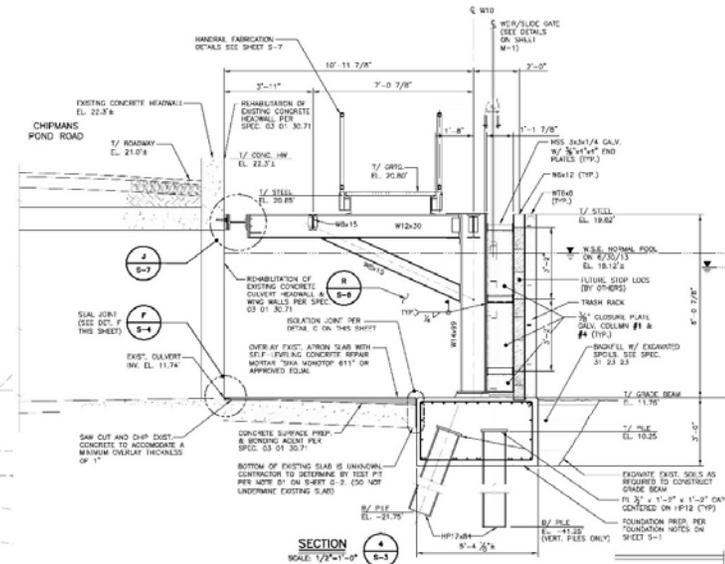
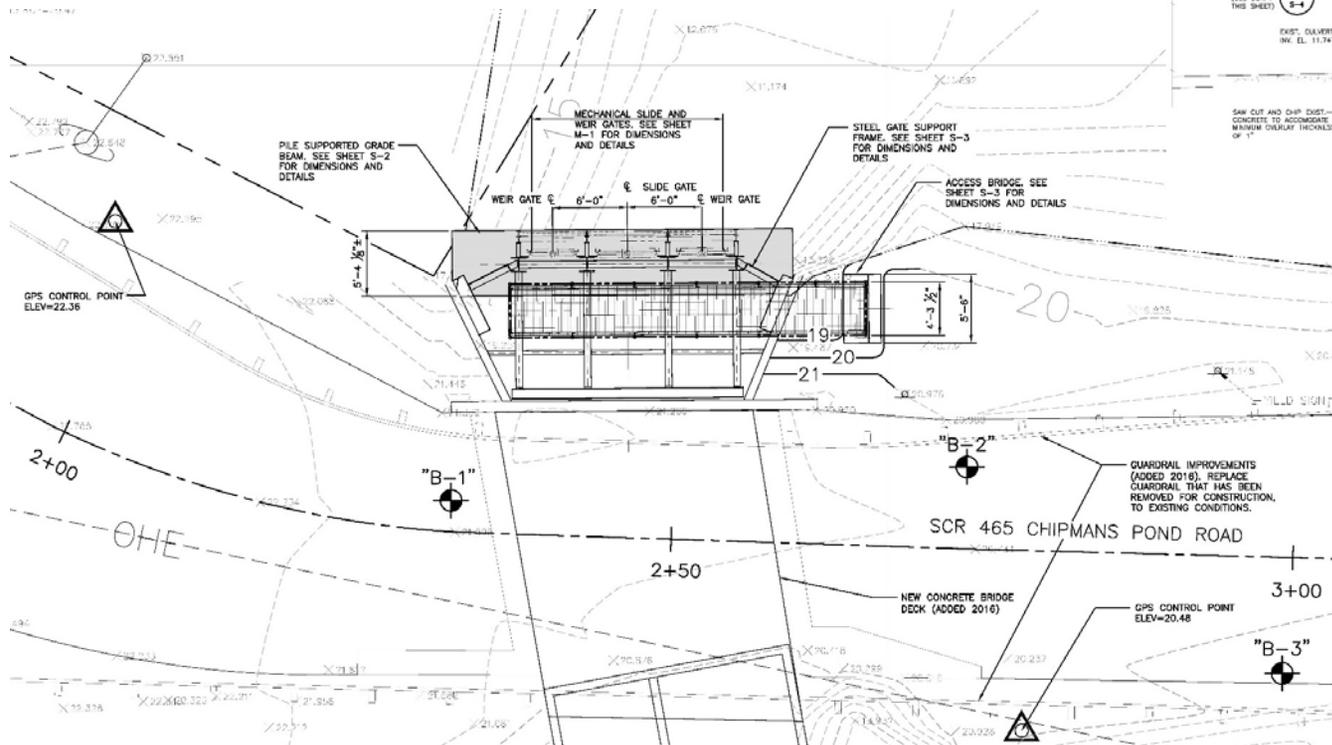
New Gates – 1 Slide, 2 Weir

Steel Access Platform

Miscellaneous Handrails & Signage



# Proposed Improvements



# Chipmans Pond Dam – Key Constraints

## Control of Water – Existing Outlet Configuration

- Summary Control of Water Plan REQUIRED with Bid
- Detailed Control of Water Plan prior to mobilization

Overhead Utilities

Primary Engineer’s Field Office Location

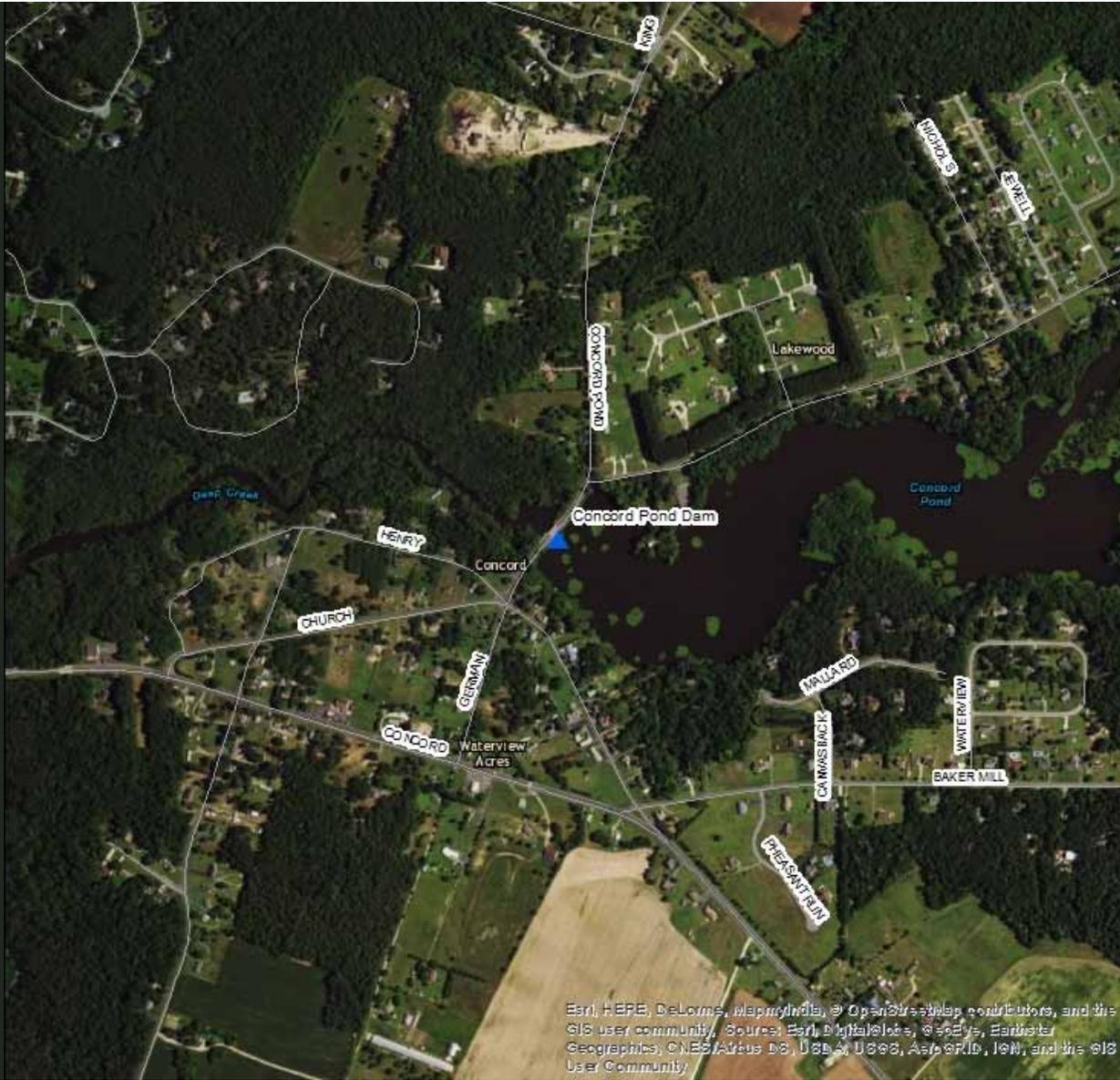
DeIDOT Approved Detour Plan

Bridge Load Restrictions

Adjacent Property Owner – Construction Easement







# Concord Pond Dam

Esri, HERE, DeLorme, mapbox, © OpenStreetMap contributors, and the GIS user community, © Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community























# Concord Pond Dam – General Scope of Improvements

Selective Demolition

Steel H-Piles/Columns and Concrete Gate Sills

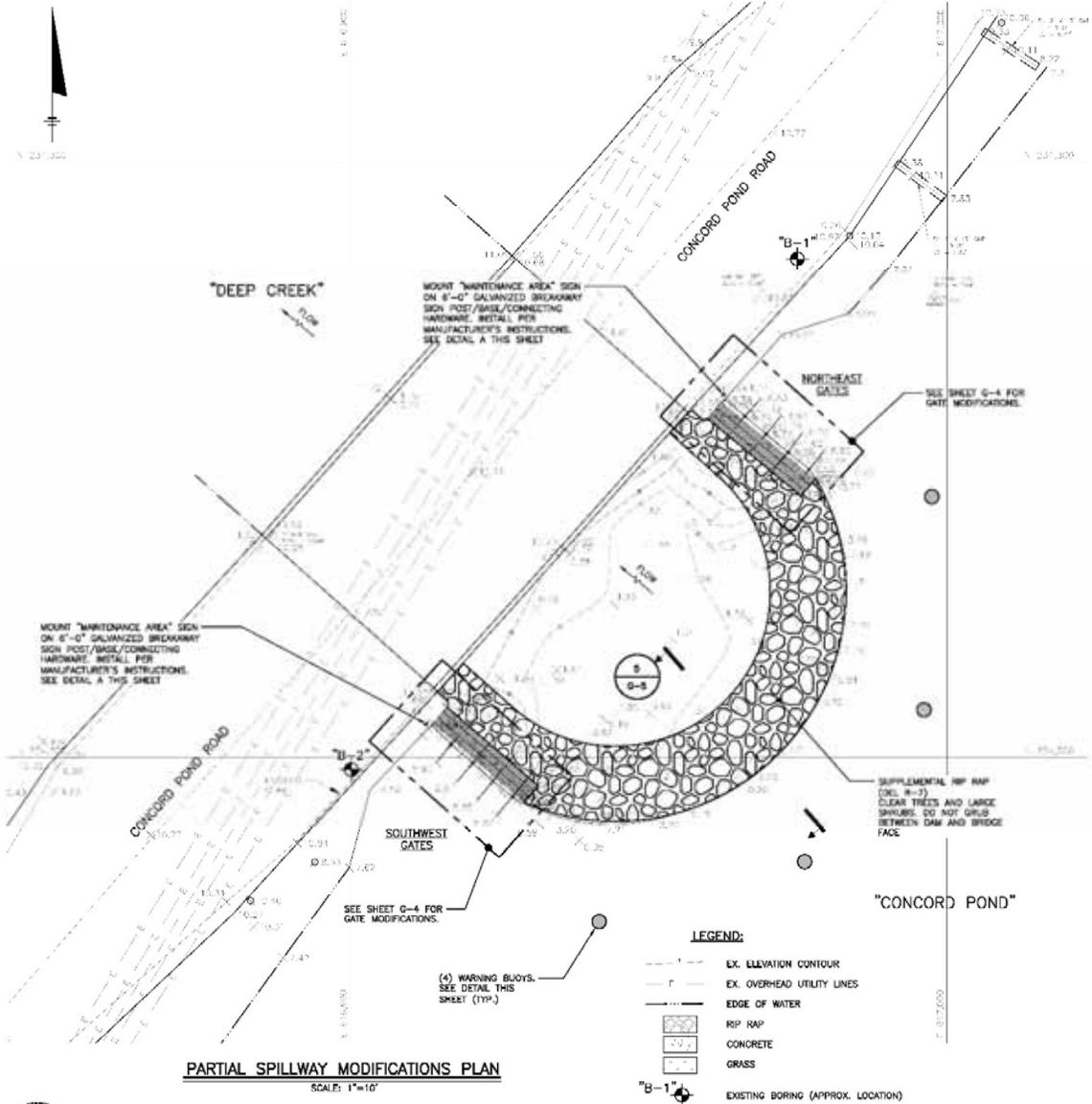
Structural Steel Gate Supports

New Gates – 2 Slide, 6 Weir

Trashracks, Miscellaneous Fabrications and signage

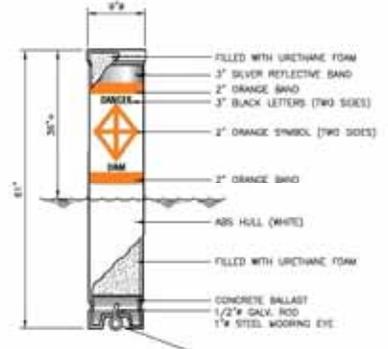
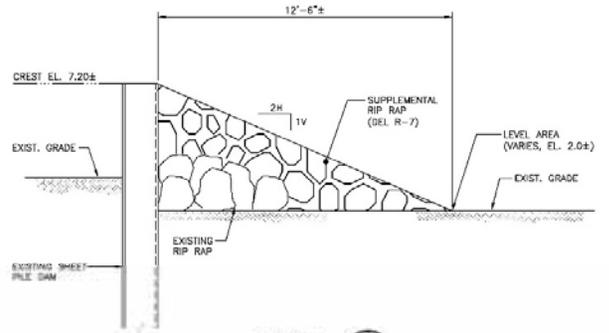
Supplemental Riprap and Dam Warning Buoys





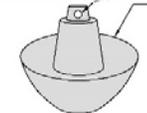
**PARTIAL SPILLWAY MODIFICATIONS PLAN**

SCALE: 1"=10'



**WARNING BUOY DETAIL**

NOT TO SCALE



**BUOY ANCHOR DETAIL**

NOT TO SCALE



**MAINTENANCE AREA SIGN**

**DETAIL A-A**

NOT TO SCALE

**NOTE:**

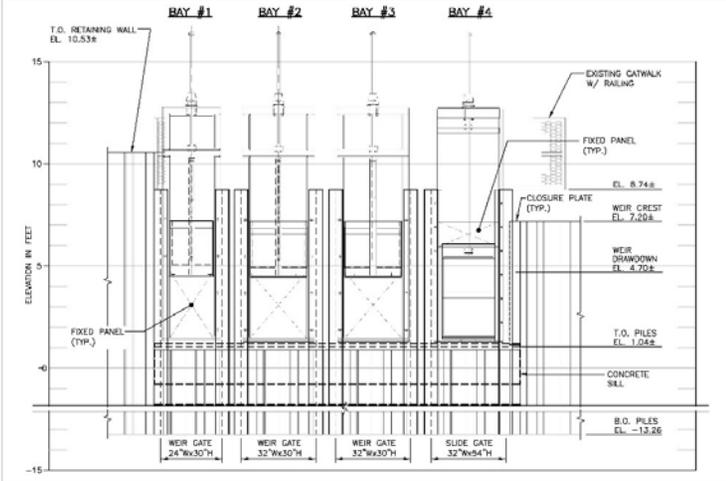
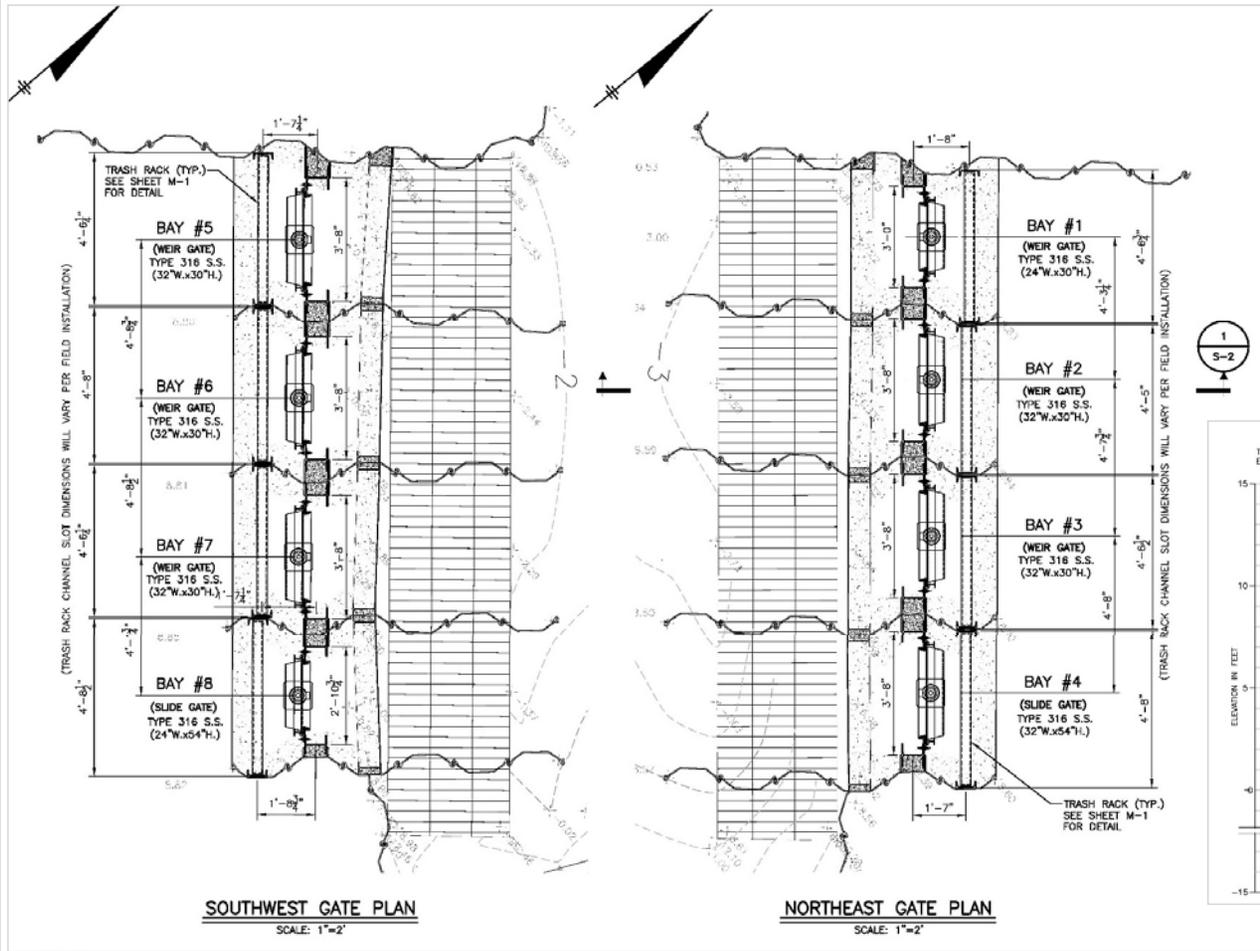
SIGNS TO BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN IN STANDARD NO. 1-15 (2009) "BREAKAWAY SIGN POST AND PIN ASSEMBLY DETAILS" SHEET 1 OF 1 OF THE DHDOT 2011 STANDARDS

**NOTE:**

PROVIDE GALVANIZED PROOF COIL ANCHOR CHAIN GRADE 30-LENGTH AS REQUIRED FOR DEPTH AT BUOY LOCATIONS

PROVIDE (2) GALV. STEEL ANCHOR SHACKLES FOR CONNECTING HOT-DIPPED GALV ANCHOR CHAIN TO BUOY AND MUSHROOM ANCHOR

30-35 LB CAST IRON FINISHED MUSHROOM ANCHOR OR EQUAL



# Concord Pond Dam – Key Constraints

Control of Water –  
One set of gates  
must be  
operational

Overhead Utilities

Bridge Load  
Restrictions

DelDOT Approved  
Detour Plan

Limited staging  
and laydown area

Condition of  
underwater sheet  
piling is unknown –  
Allowance Item





# Craigs Pond Dam





















# Craigs Pond Dam – General Scope of Improvements

Selective Demolition

Concrete Filled Pipe Piles and Concrete Pile Caps

Precast Concrete Gate Boxes and Access Walkway

New Gates – 1 Slide, 1 Weir

Concrete slope protection, Sheet Pile Toe Walls

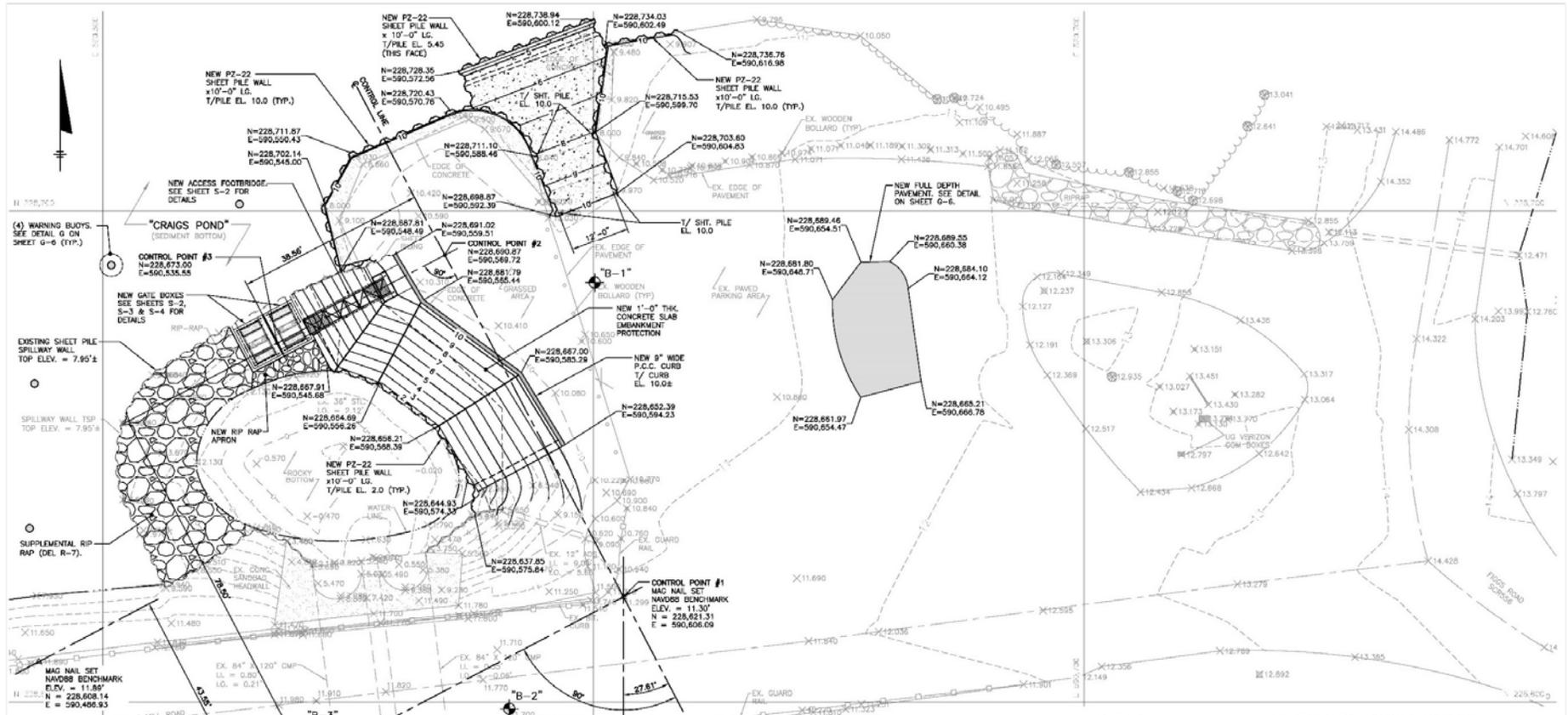
Supplemental Riprap and Dam Warning Buoys

Parking Lot Improvements

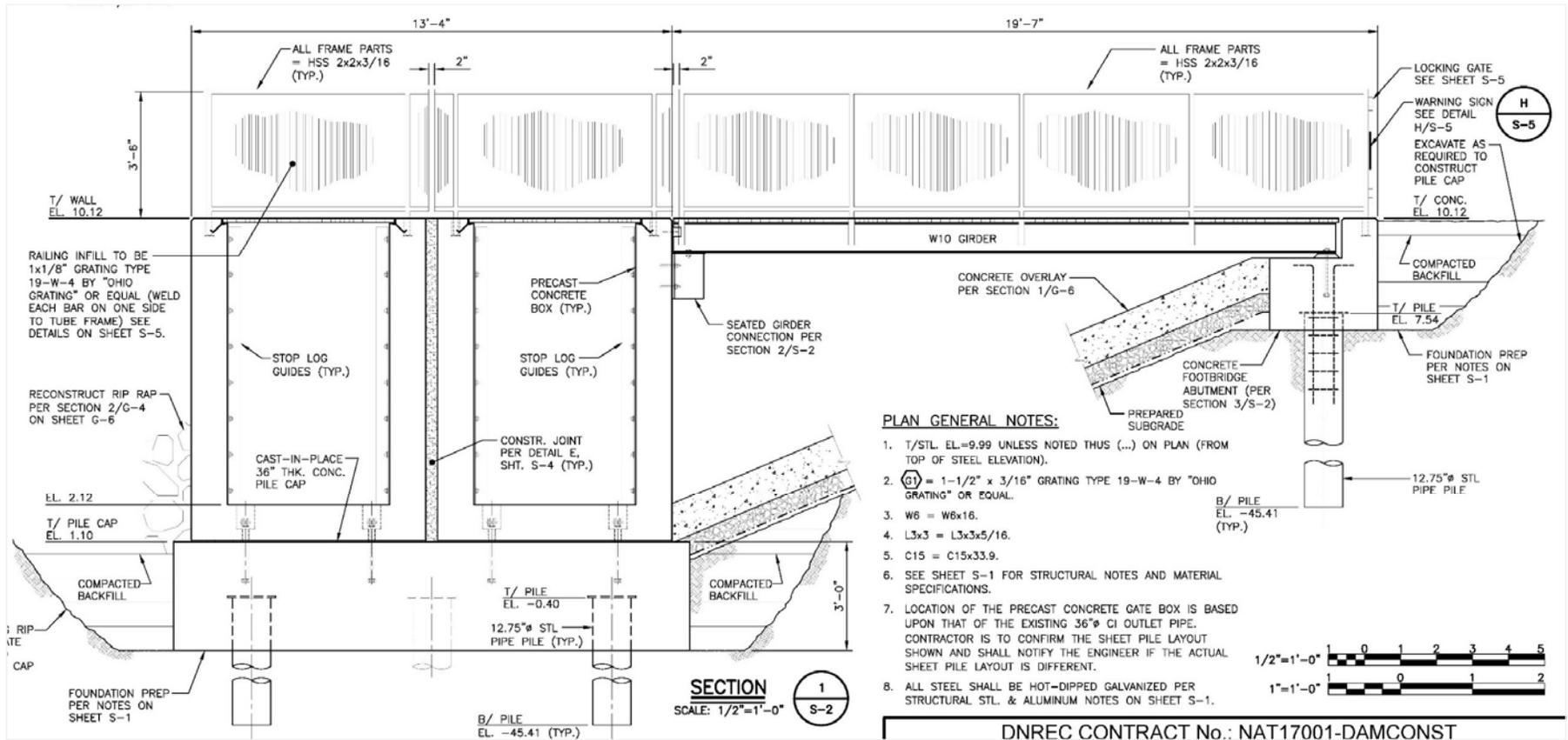
New Concrete Boat Ramp



# Proposed Improvements

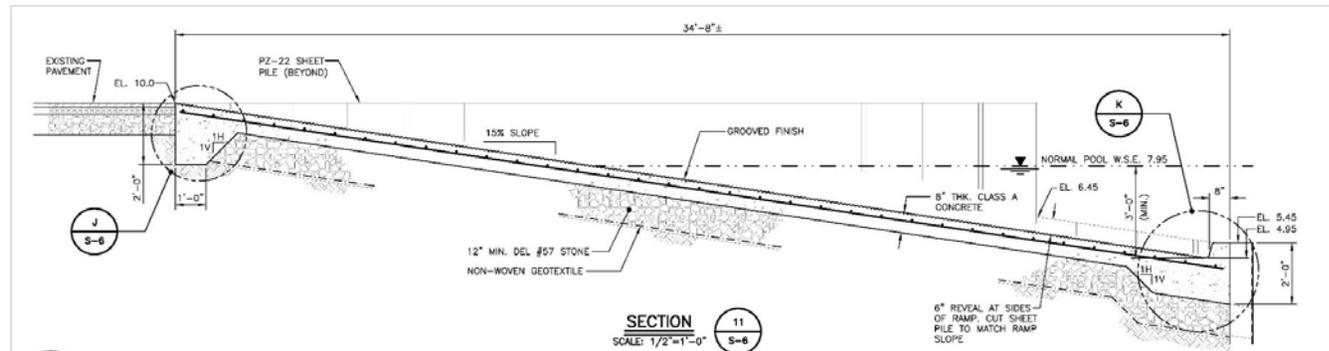
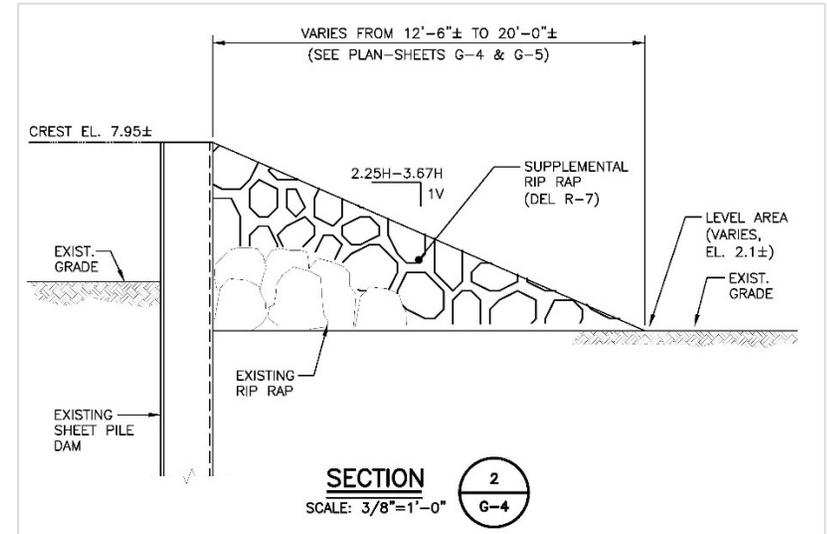
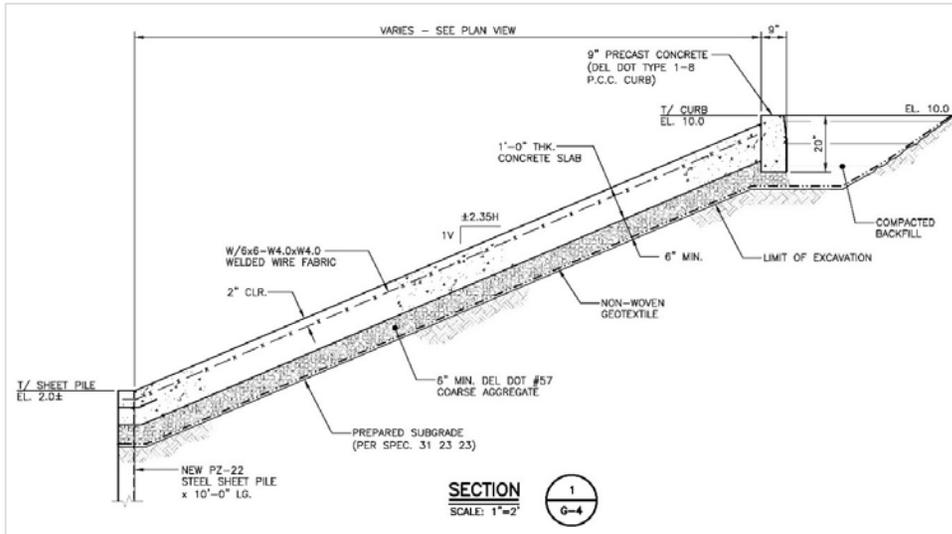


# Proposed Improvements



DNREC CONTRACT No.: NAT17001-DAMCONST

# Proposed Improvements



## Craigs Pond Dam – Key Constraints

Control of Water

Culvert Load  
Restrictions

DeIDOT  
Approved TMP –  
No road closure

Minimize  
damage to  
parking area



## Bid Format

### Grand Total (Base Bid) Items

- Fixed Lump Sum Item
- Lump Sum Items

Bid Award will be based on Grand Total Bid (Base Bid) and accepted Alternate Items.

### Alternates

### Unit Prices

### Allowances

Unit Prices and Allowances are the same for all Bidders.



# Grand Total Bid Items

## Fixed Lump Sum Item

- Mobilization and Demobilization \$75,000

## Lump Sum Items

- Improvements to Chipmans Pond Dam
- Improvements to Concord Pond Dam
- Improvements to Craigs Pond Dam



## Alternates

Only one alternate for this project. Bidders to include a Deduct to delete the improvements associated with the southwest gates at Concord Pond Dam.

Owner's intention is to perform the base bid, but may use this alternate if price or schedule require.



## Unit Prices and Allowances

Unit Prices given are the Contract amount that will be paid for work indicated on the Contract Drawings where the quantity indicated is increased by appropriate field modification order.

Allowance Items are to be used only to address additional work that is NOT indicated on the Contract Drawings and is not a Unit Price Item. This is generally to include repairs or rehabilitation of existing features that will not be visible until Control of Water measures are in place.

## Example:

Overexcavation to remove soft material below the subgrade elevation indicated on the drawings as directed by the Project Engineer



# Subcontractor List

✓ Traffic Control

✓ Structural Steel/Metal Fabrication

✓ Structural Steel Erection

✓ Water Control Gate Manufacturer/Supplier

✓ Pile Driving

✓ Sheet Pile Driving

✓ Control of Water

✓ Concrete (Including Repairs and Rehabilitation)

✓ Hot Mix Asphalt Paving



## Summary Control of Water Plan – Chipmans Pond

A Summary Control of Water Plan for Chipmans Pond Dam MUST be included with the Bid Form

Details, including basis of design, are included in Section 31 52 00, 1.3.A



## Key Contract Provisions

*The following provides an overview of key provisions in the Contract that the Owner wishes to emphasize. The Bidders must be familiar with all requirements contained in the Project Manual and the Contract Drawings.*



## Contract Length

Contract Length will be 500 calendar days

Contract length based on the following:

- Assumed lead times of 12 – 16 weeks for gate fabrication
- Provides for sequential work at each site during critical control of water activities
- Includes two summer seasons between May 2017 and September 2018 to overcome weather delays



# Traffic Management Plan (TMP) During Construction

## DeIDOT approved plans include:

- Detour plans for Chipmans Pond Dam and Concord Pond Dam
- TMP (no road closure) for Craigs Pond Dam

Contractor requested revisions will require DeIDOT approval

Detours and TMP shall only be in place when active work is being performed on a site

Traffic controls require daily inspections

Advance notice of detours is required - Contractor will be responsible for coordination with DeIDOT



## Field Offices

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Successful Bidder to furnish field office trailers for the Engineer

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Primary office trailer to be at the Chipmans Pond parking area for the duration of the project.

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Smaller secondary office trailers to be provided at Concord Pond and Craigs Pond (Only required while work is ongoing at these sites)

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Requirements included in Section 01 51 50



## Work by Others

Water level gages to be removed by DEOS prior to construction. Owner will schedule work after receipt of construction schedule.

Reservoir Drawdowns – In anticipation of heavy storms, DNREC typically lowers reservoir levels to prevent overtopping

- No drawdown capability at Craigs Pond Dam
- If the site is actively under construction, DNREC will direct the Contractor to open existing gates or otherwise drawdown the water level per the COW plan
- If the site is not active, DNREC will perform the drawdown



## Reminder

Thank you for your interest in the project!

Questions must be submitted in writing to DNREC

- Address questions to Janice Shute
- Email is acceptable: [Janice.Shute@state.de.us](mailto:Janice.Shute@state.de.us)

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# QUESTIONS

