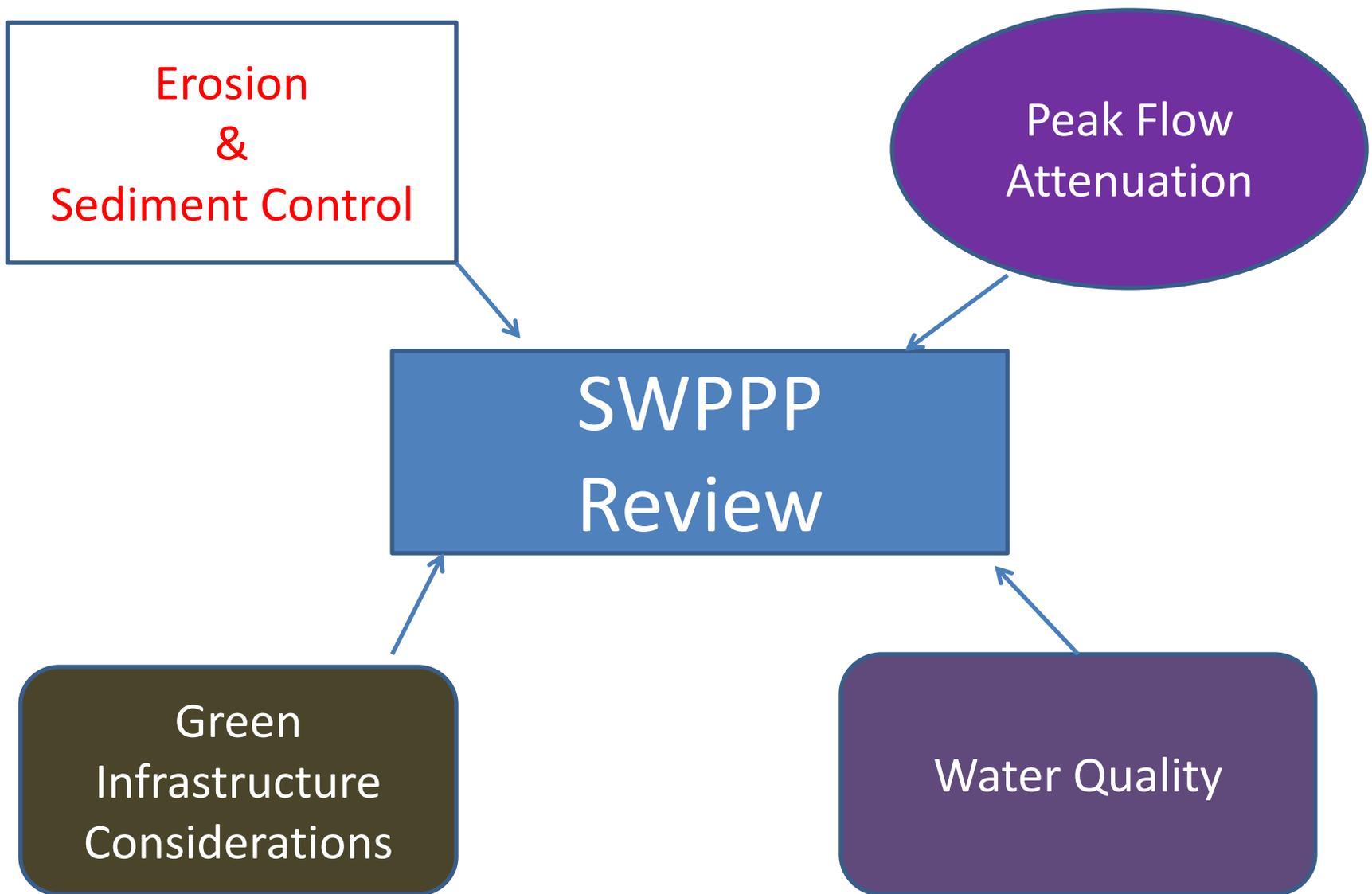




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# **STORMWATER POLLUTION PREVENTION PLANS (SWPPPs)**



SWPPP Review Components

# Stormwater Pollution Prevention Plan (SWPPP) Reviews

## Town of Big Flats

- Higher Hope Church
  - Dandi Mini-Mart on C.R. #64
- Williams Honda SWPPP Modification
  - Elmira Savings Bank
  - Kent Brown Detailing Plan Revision
    - Tri-County Conference Center
- Consumer Square Redevelopment Project
- Hickory View Apartments Back-up Drainage Plan
  - Sonwil Modified Plan
- Mosque Project on Hickory Grove Road



# Stormwater Pollution Prevention Plan (SWPPP) Reviews

## City of Elmira

- Hilliard Parking Lot

## Elmira-Corning Regional Airport

- Atlantic Aviation

## Town of Horseheads

- Biltmore Crossing (Revised Grading Plan)
  - Breesport Baptist Church

# Stormwater Pollution Prevention Plan (SWPPP) Reviews

## Village of Horseheads

- Parmentor Tire Storage Area
- Proposed Hotel (NYS Route 14)

## Town of Southport

- Notre Dame High School Athletic Field Project
  - Hurley Parking Lot Project

# Stormwater Pollution Prevention Plan (SWPPP) Reviews

## Town of Veteran

- Bomack Construction (NYS Route 14)

## Town of Catlin

- Provided preliminary input re: stormwater management for two proposed Dollar General stores

# **Notre Dame High School**



**Sonwil Modified Plan**  
**for**  
**Stormwater Basin**





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# STORMWATER DRAINAGE DESIGN & STUDIES

# Stormwater Drainage Design and Studies

## Town of Big Flats

- Hydraulic Evaluation of Bridges over Sing Sing Road within airport property

## Chemung County Department of Public Works

- Hydraulics/Hydrology Study for Culvert/Bridge Replacement on Pine Valley Road
  - Drainage Design for DPW Fueling Station

# Stormwater Drainage Design and Studies

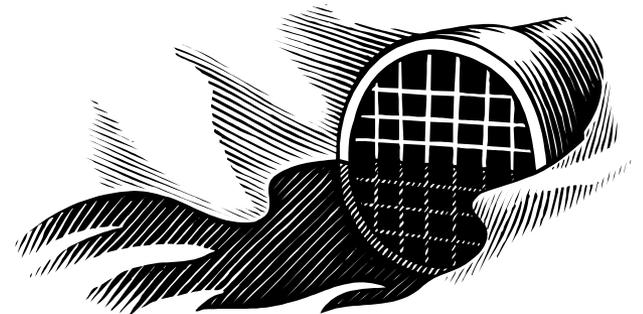
## City of Elmira

- Hydraulic/Hydrologic Evaluation re: sizing of storm sewer along upper Hoffman Street

# Stormwater Drainage Design and Studies

## Town of Elmira

- Hydraulic Study for Fern Dell Drive Culvert Replacement
- Hydraulic/Hydrology Study for Pinewood Circle Storm Sewer Replacement
- Upper Larchmont Detention Basin Spillway Evaluation Report (underway)



# Stormwater Drainage Design and Studies

## Town of Horseheads

- Highland Hills Stormwater Detention Basin As-Built Review
- Hydraulic/Hydrology Study re: Driveway Culvert off Bannister Road

# Stormwater Drainage Design and Studies

## Town of Veteran

- Hydraulic/Hydrology Study for Parrott Road
- Hydraulic/Hydrology Study re: Culvert Sizing on East Sullivanville Road
- Pine Valley overbank stream flow diversion berm (underway)

# Stormwater Drainage Design and Studies

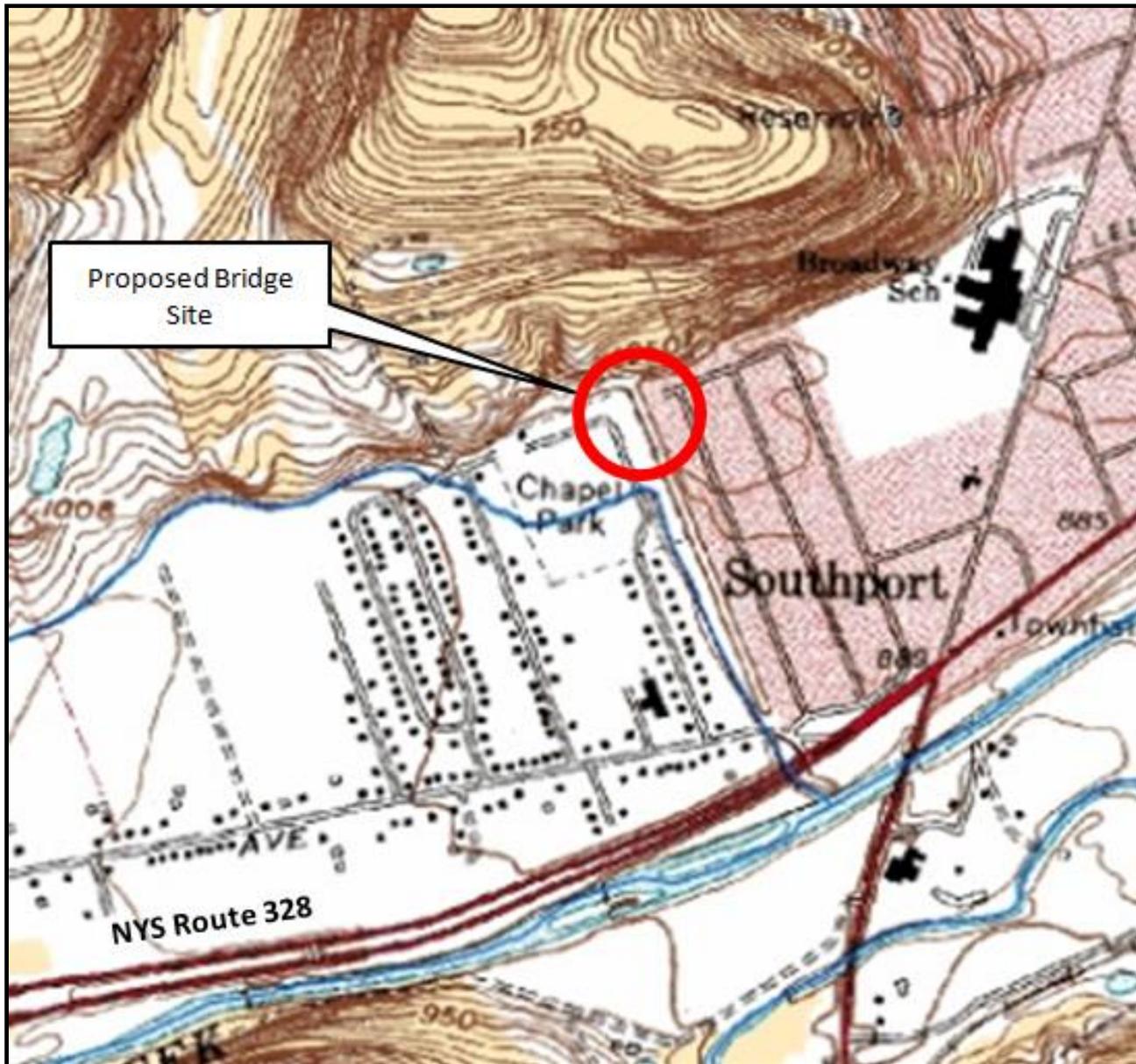
## Village of Horseheads

- SWPPP for Leaf/Grass Composting Site (on hold)

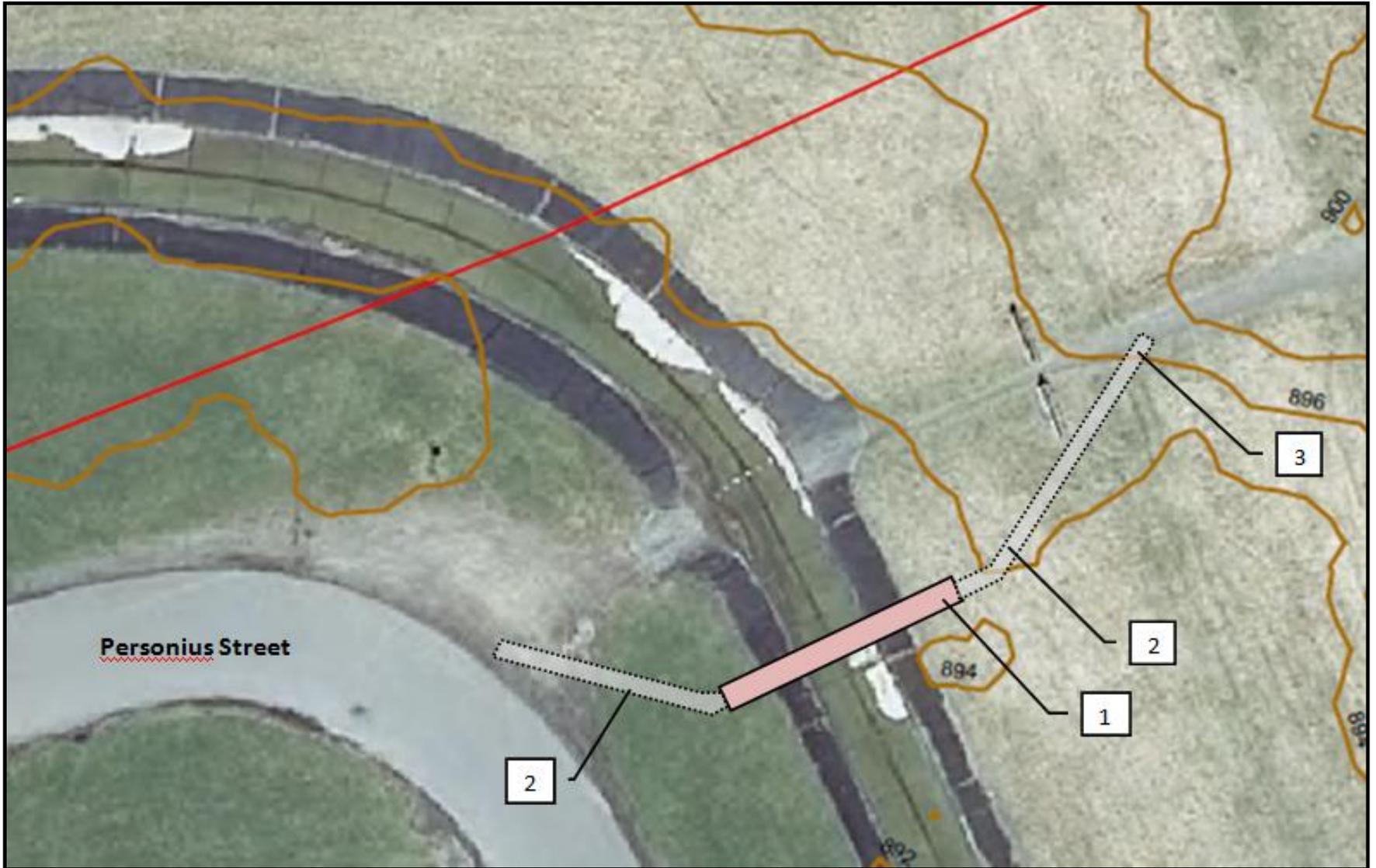
## Town of Southport

- Hydraulic/Hydrology study and design for proposed pedestrian bridge at Chappell Park
- Trescott Drive Drainage Study & Improvement Design

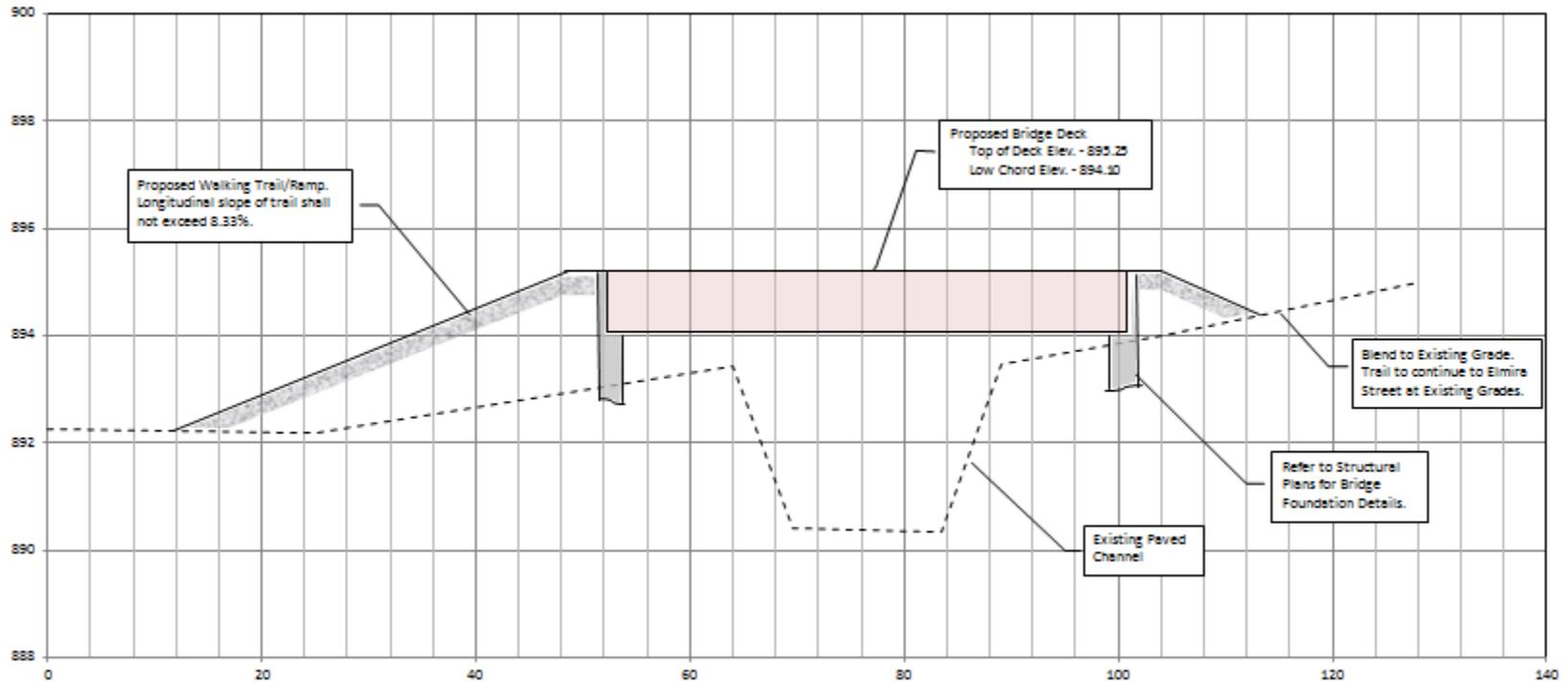
# **Chapel Park Pedestrian Bridge**



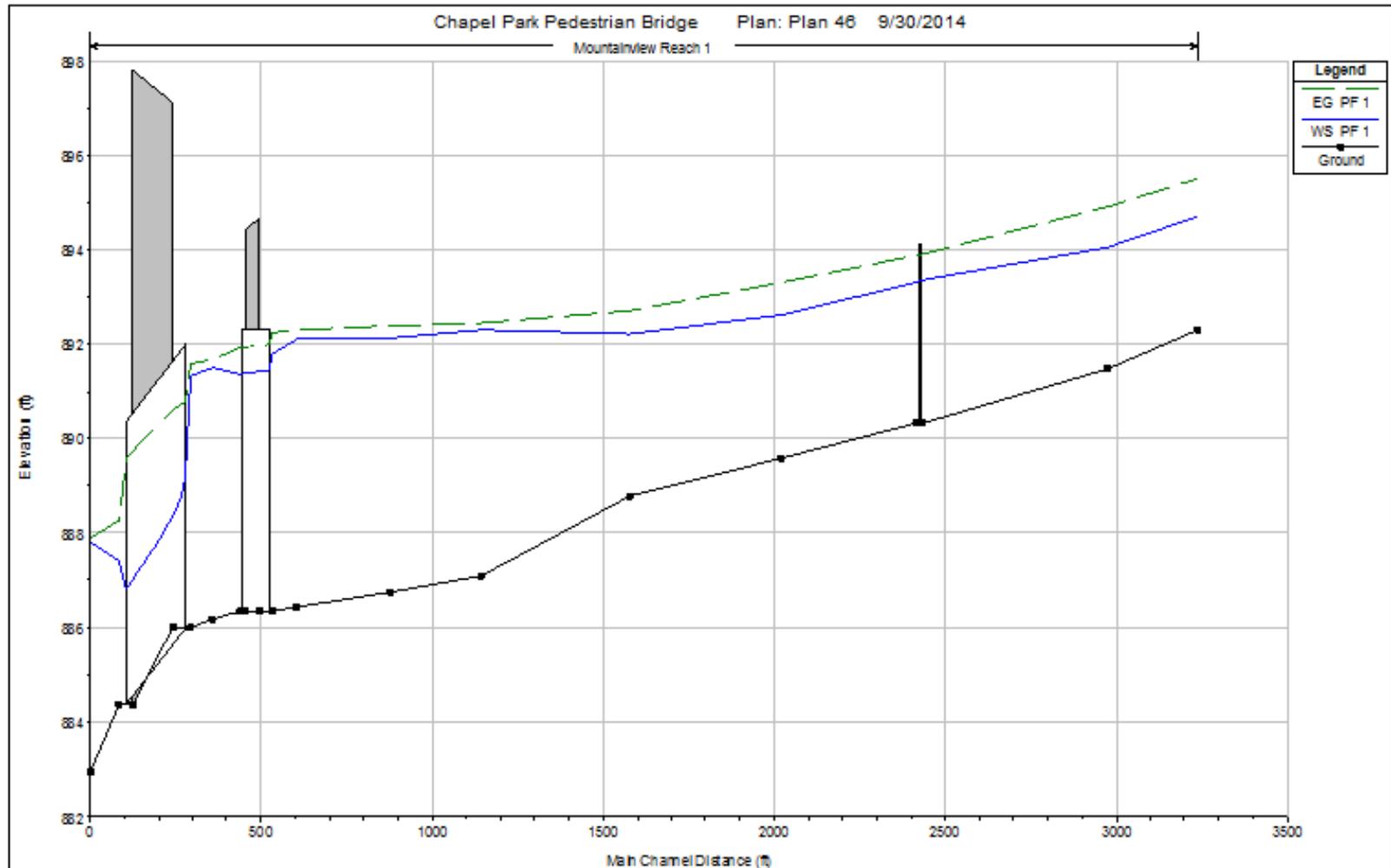




# Bridge/Trail Profile



# Hydraulic Profile along Channel



**ANNUAL INSPECTION &  
REPORTING FOR CHEMUNG  
COUNTY DAMS**

# Marsh Creek Flood Control Reservoir



# Plunge Pool for Marsh Creek Flood Control Reservoir



# Marsh Creek Flood Control Reservoir





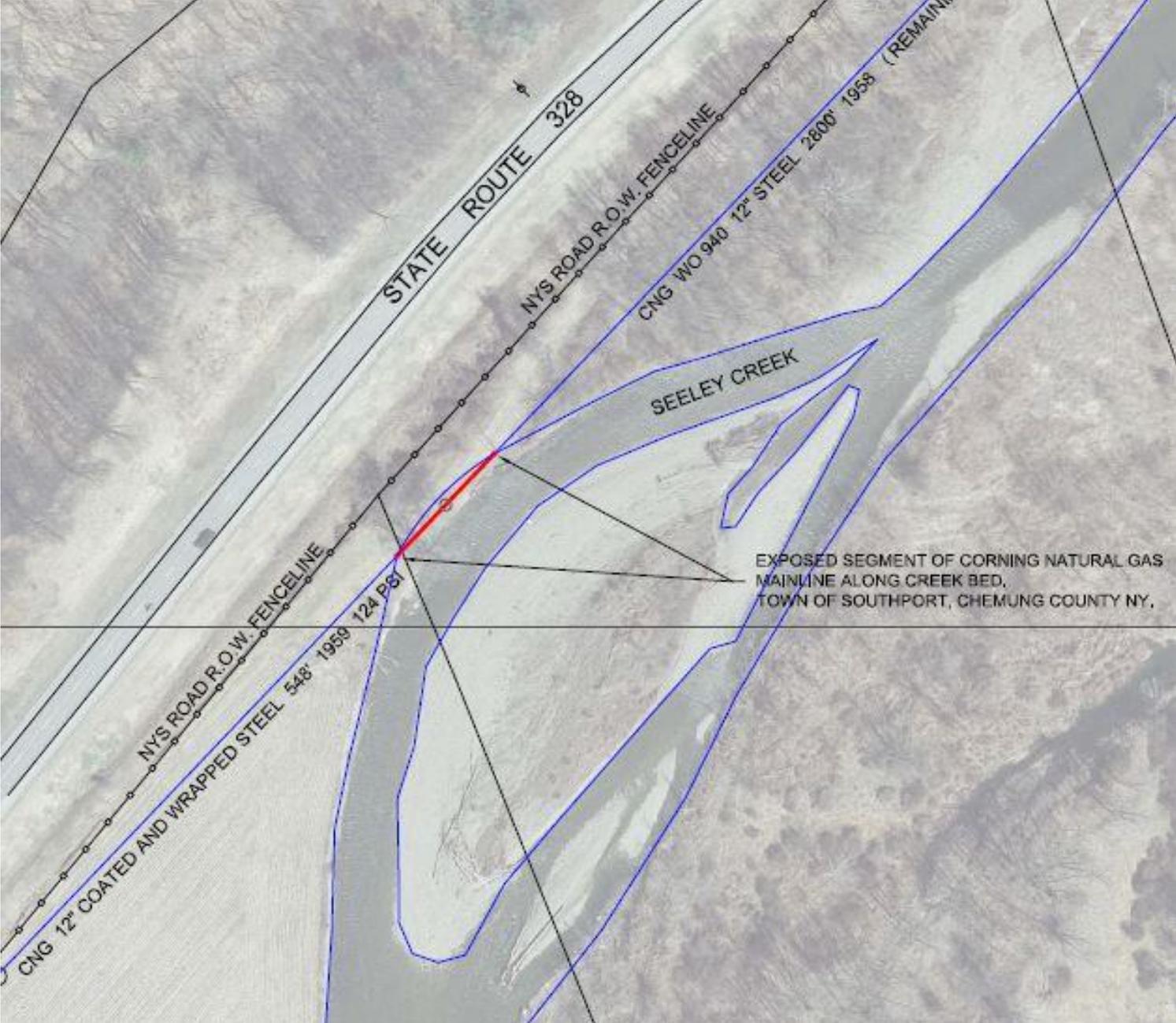
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# EMERGENCY WATERSHED PROTECTION (EWP) PROJECTS

# **Seeley Creek Stream Bank Stabilization Project**





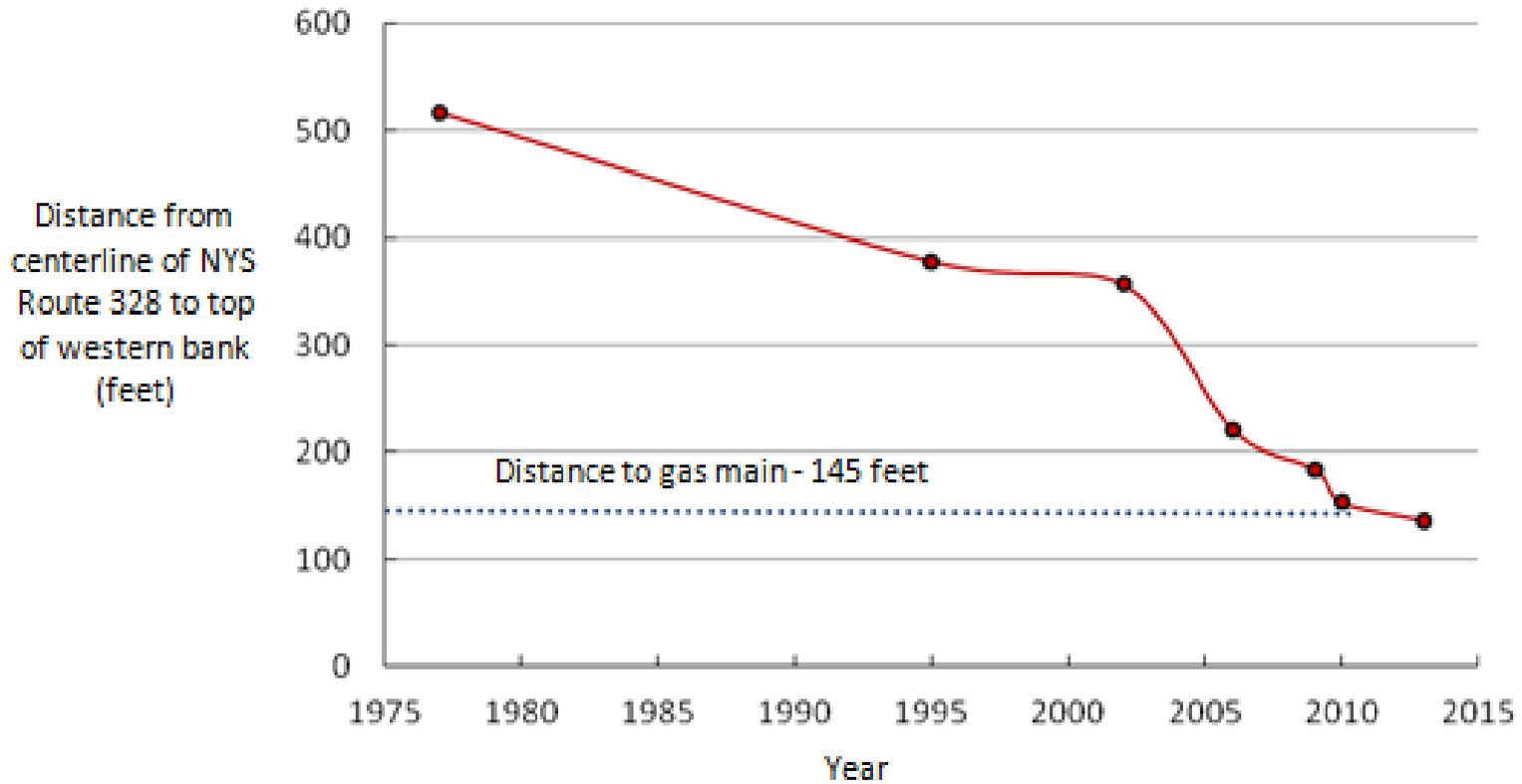


Exposed Gas  
Main



Exposed Gas  
Main

# Historic Migration of Stream Bank





**Legend:**

- |   |                                       |
|---|---------------------------------------|
|  | - Western Streambank Location in 2010 |
|  | - Western Streambank Location in 1995 |













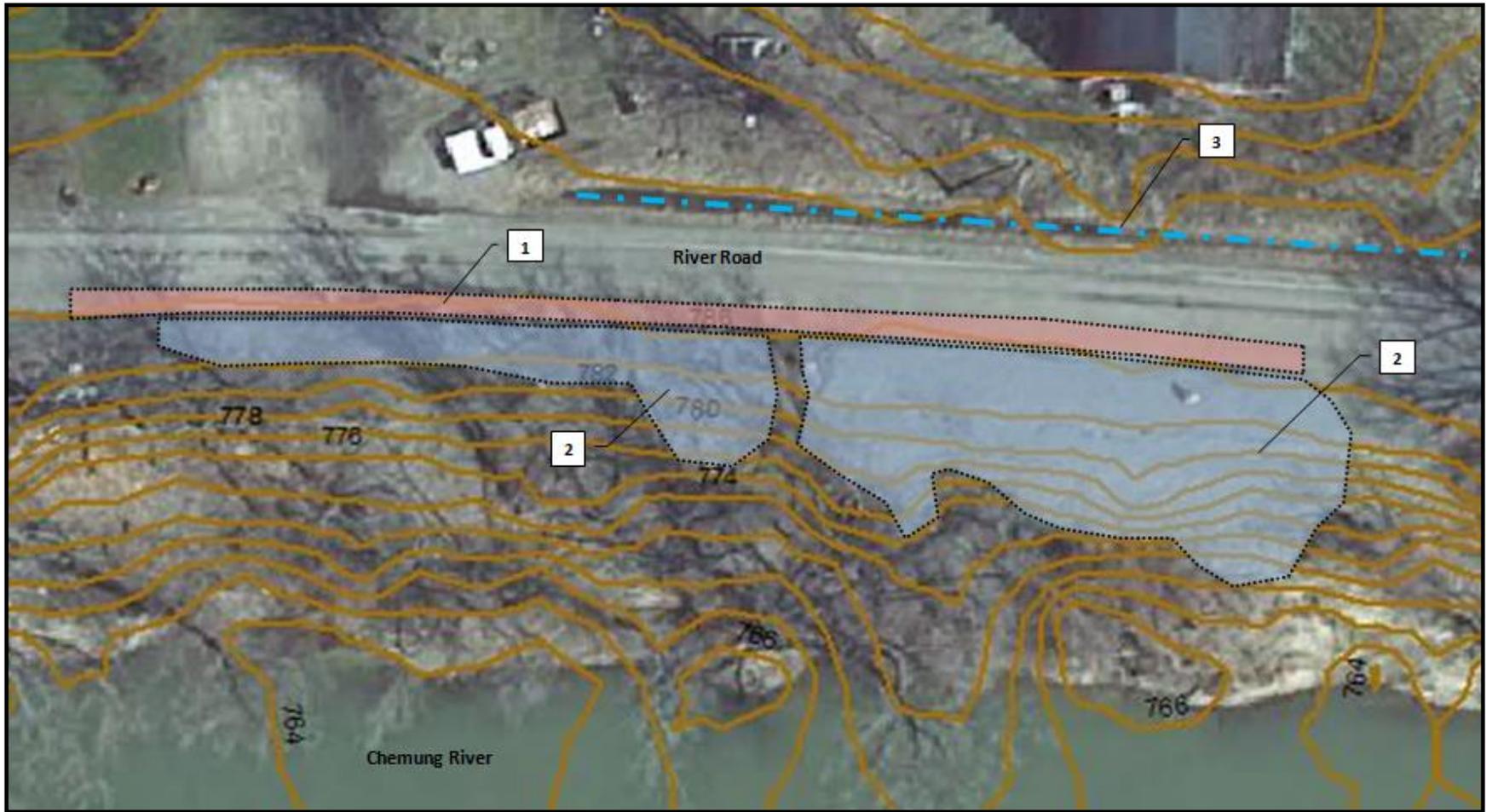


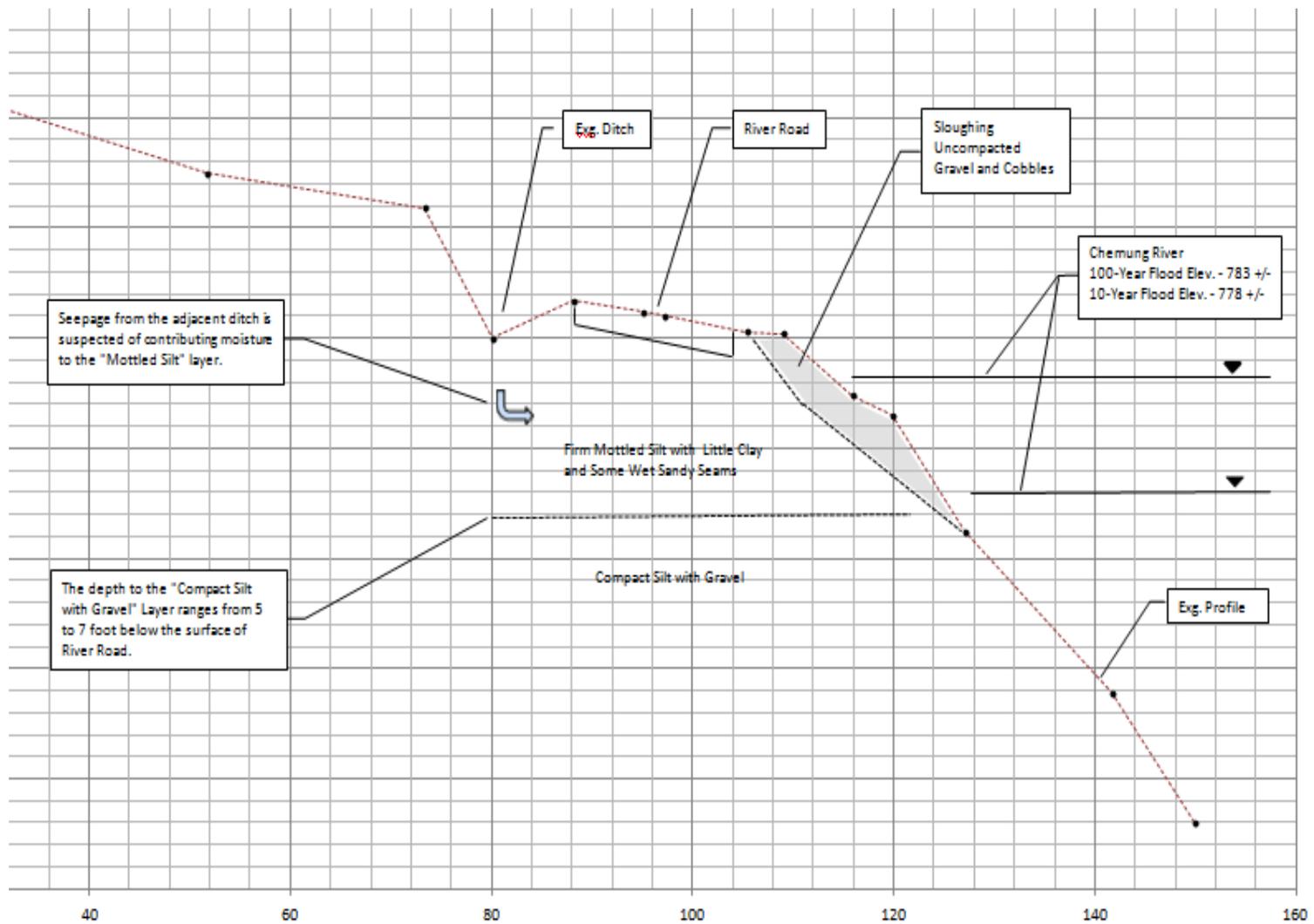


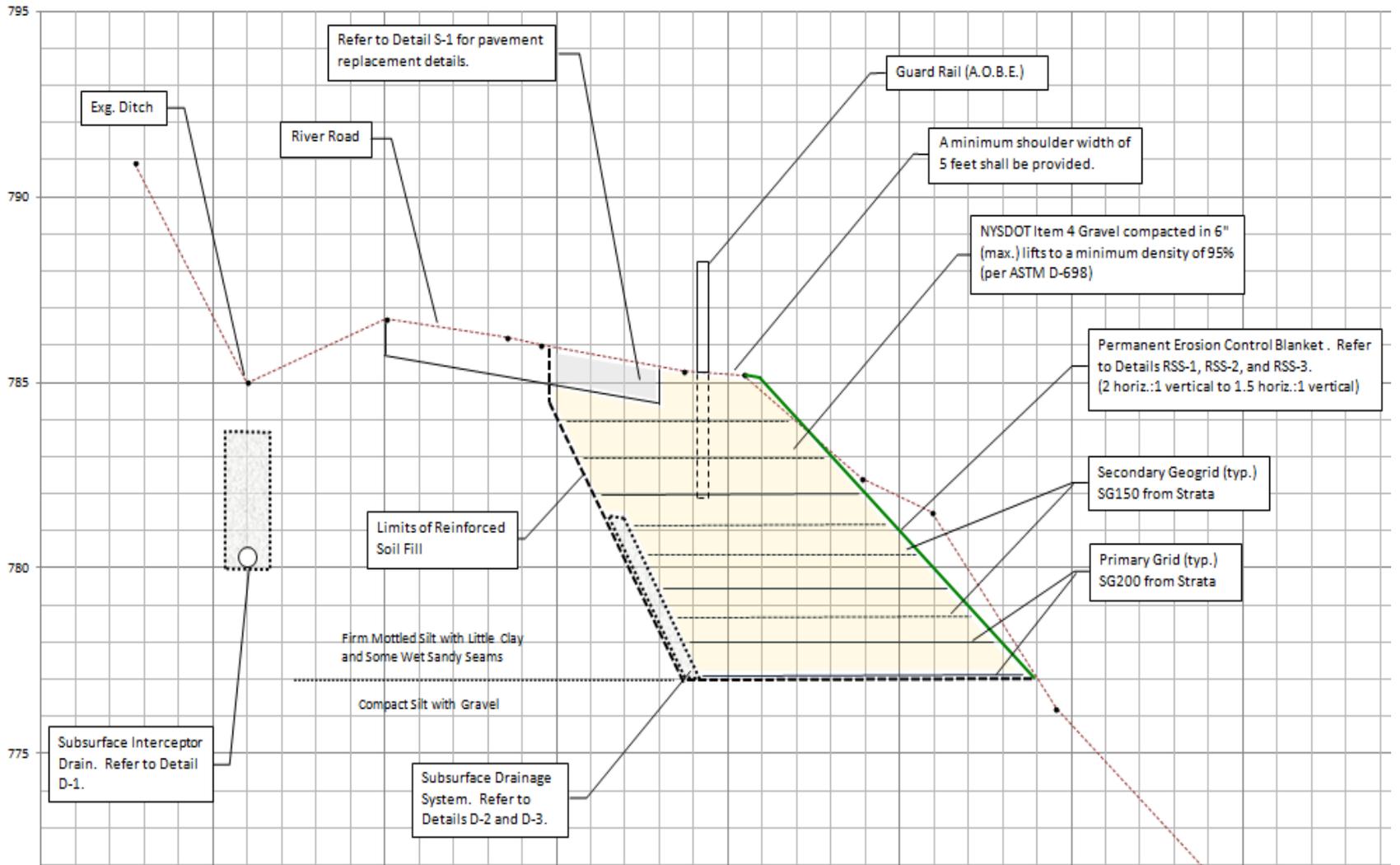




# **River Road Reinforced Soil Slope Project**







Exg. Ditch

Refer to Detail S-1 for pavement replacement details.

River Road

Guard Rail (A.O.B.E.)

A minimum shoulder width of 5 feet shall be provided.

NYSDOT Item 4 Gravel compacted in 6" (max.) lifts to a minimum density of 95% (per ASTM D-698)

Permanent Erosion Control Blanket . Refer to Details RSS-1, RSS-2, and RSS-3. (2 horiz.:1 vertical to 1.5 horiz.:1 vertical)

Secondary Geogrid (typ.) SG150 from Strata

Primary Grid (typ.) SG200 from Strata

Limits of Reinforced Soil Fill

Firm Mottled Silt with Little Clay and Some Wet Sandy Seams

Compact Silt with Gravel

Subsurface Interceptor Drain. Refer to Detail D-1.

Subsurface Drainage System. Refer to Details D-2 and D-3.



08/18/2014 11:14





08/19/2014 14:42



08/26/2014 13:58



08/26/2014 13:59

















09/17/2014 13:50



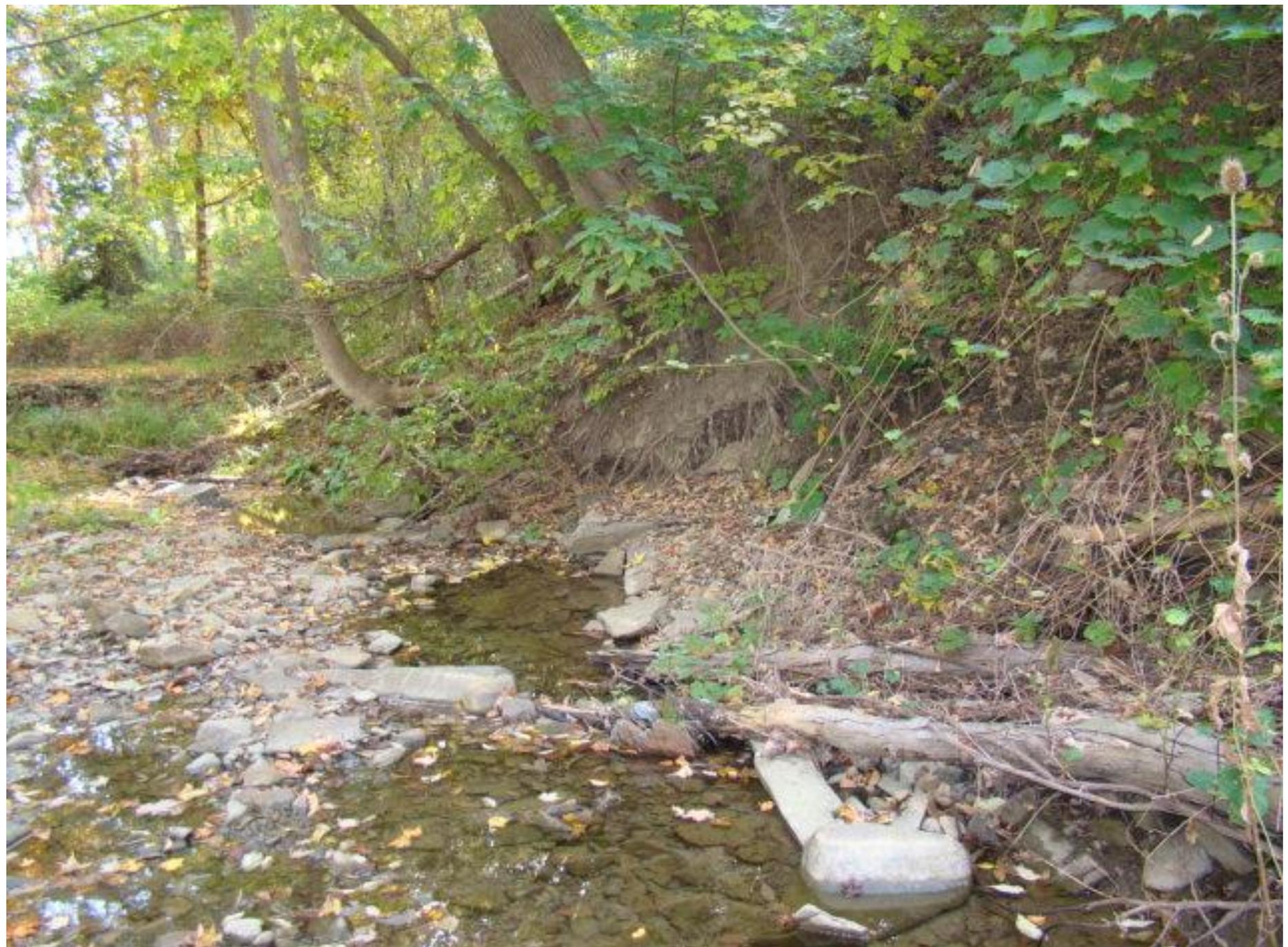
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**Dry Brook Road**  
**Drainage, Stream Bank Stabilization &**  
**Reinforced Soil Wall Project**

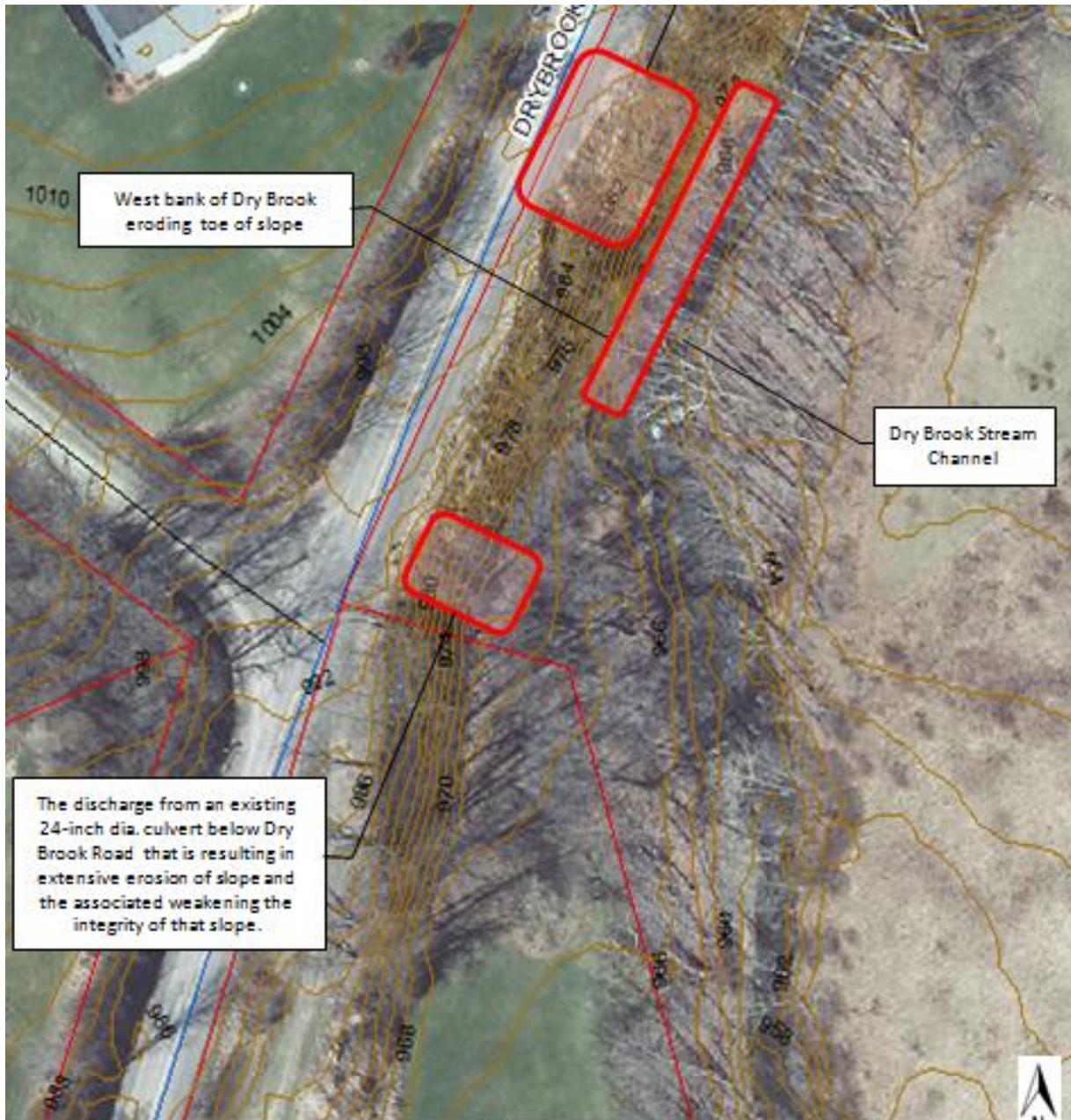




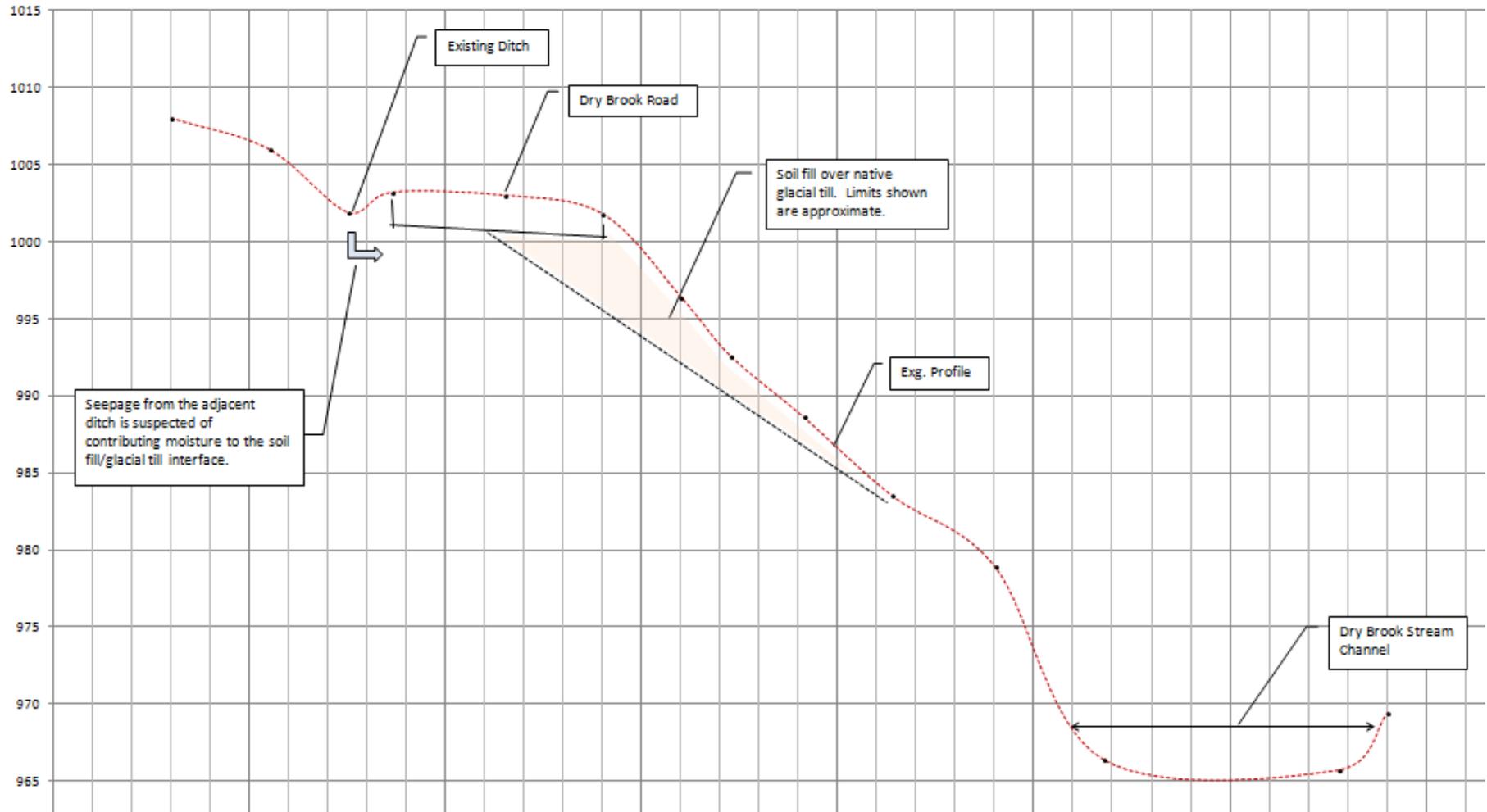




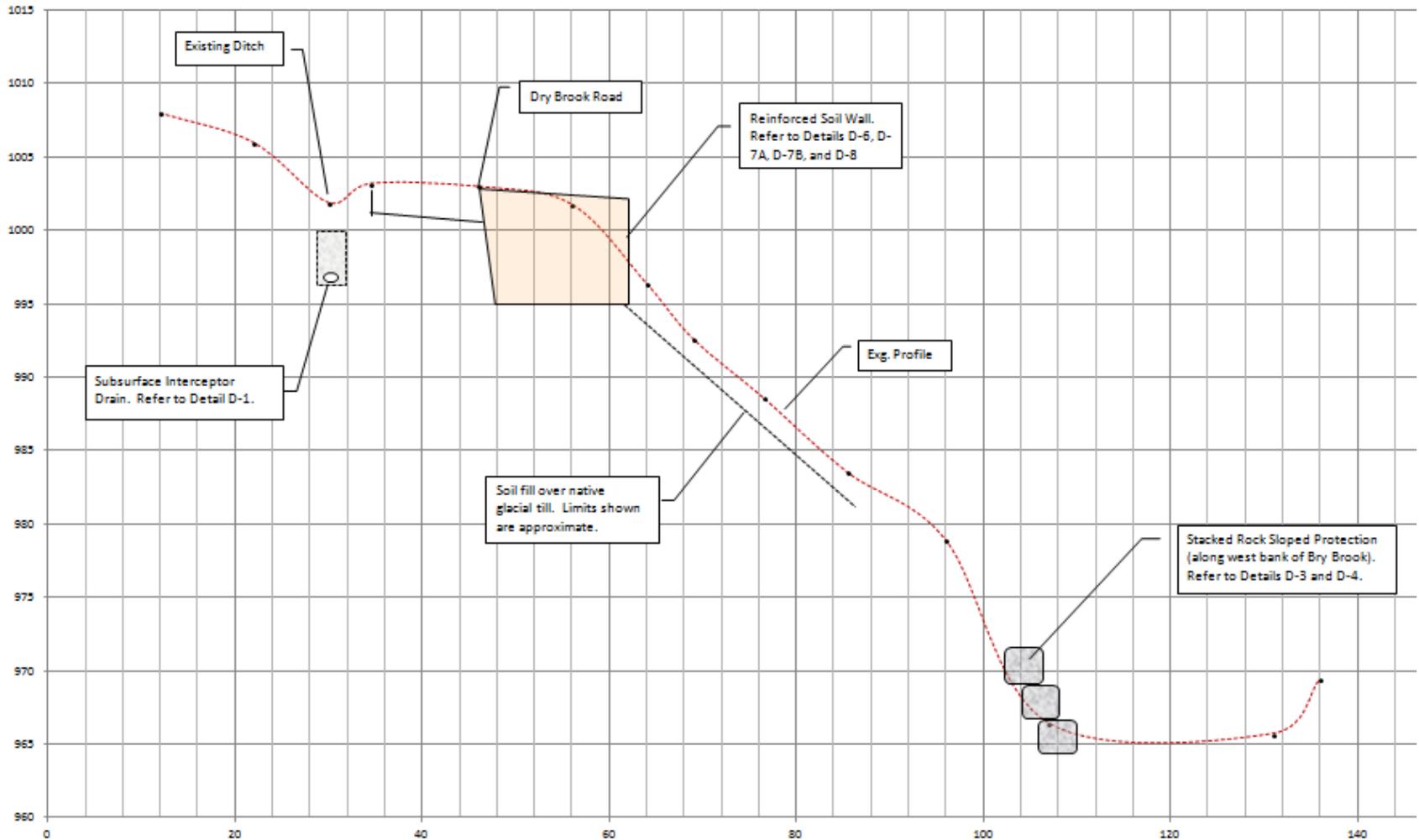




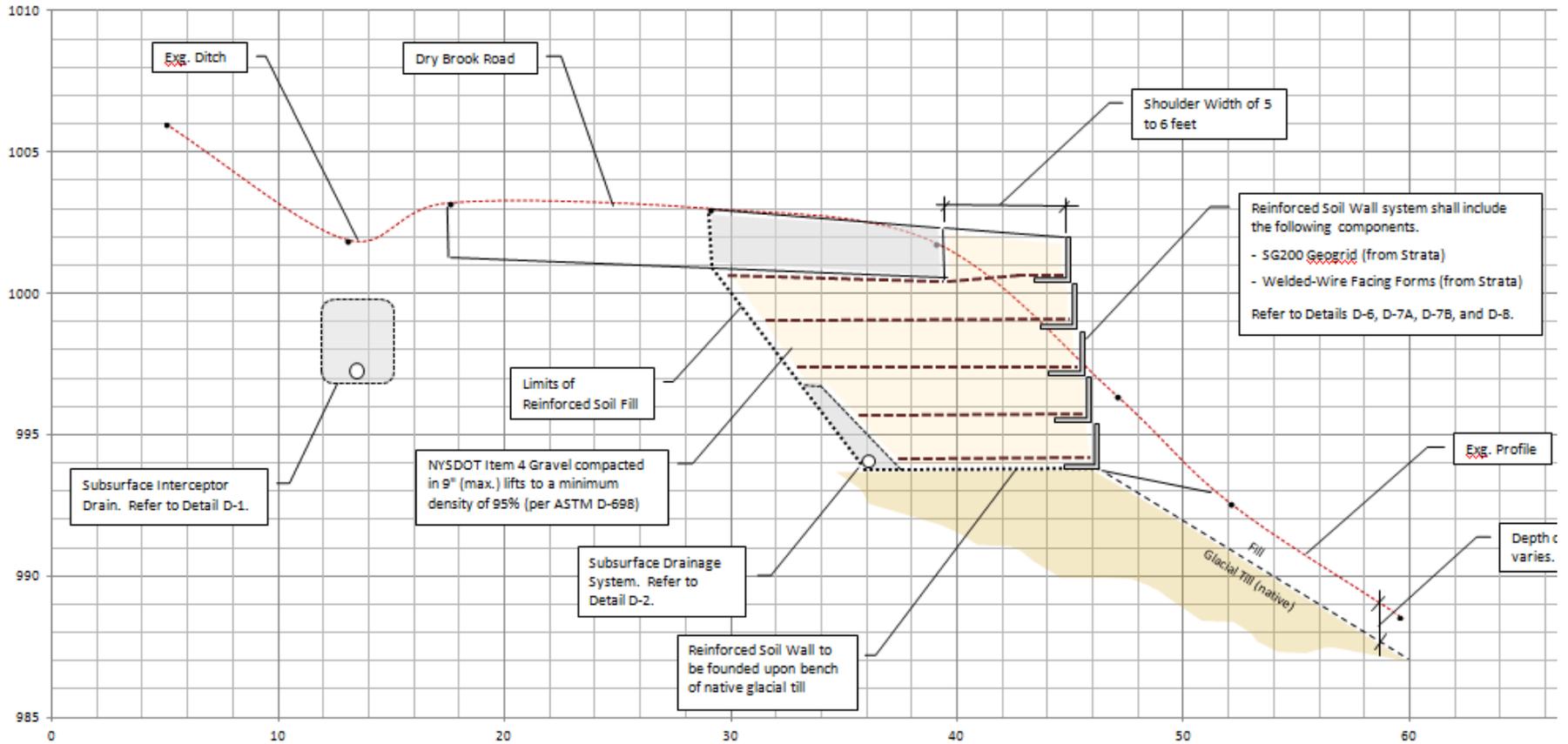
# Existing Profile



# Proposed Improvements



# Cross-Section of Reinforced Soil Wall

























# New Reinforced Soil Wall



# New Driveway Culvert





Hydroseeding  
Roadside Ditch



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# OTHER ENGINEERING WORK

# Other Engineering Work

## Chemung County

- WQIP Grant Application for Salt Storage and Stormwater Management Improvements

## Town of Veteran

- Attend and Participate in Town of Veteran Drainage Committee
- Prepared preliminary cost estimates for Panther Lick Diversion Berm & Assisted in pursuing funding

# Other Engineering Work

## Town of Big Flats

- Sing Sing Creek Flood Elevation Analysis along Sing Sing Creek

## Village of Horseheads

- NFWF Grant Application for three Stream Bank Stabilization Projects on Newtown Creek
- WQIP Grant Application for Stream Bank Stabilization Project to Protect Water Filter Plant

# Other Engineering Work

## Town of Catlin

- Provided preliminary input regarding drainage planning for two proposed Dollar Generals

## City of Elmira

- Provided assistance regarding Solid Waste Grant Narrative
  - Permit Application to NYSDEC for Disposal of Tornado Debris



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# TRAINING/EDUCATION

## November 2013 – Meeting with Jefferson County MS4s

- Upon request of Jefferson County Soil & Water, attended a meeting in Black River, NY with a group of new MS4s.
- Over 7 new MS4s attended and asked us questions re: the Chemung County Stormwater Coalition.
- Presented to the group the following.
  - Background re: development of the coalition
  - Funding for the coalition
  - Responsibilities of the Stormwater Team

## May 2014 – Presentation to the Southern Tier/Finger Lakes Water & Wastewater Operators

- Upon request of the Southern Tier/Finger Lakes operators, provided a 1-hour presentation.
- The presentation focused upon;
  - NYSDEC's Stormwater Program & Requirements
  - Stormwater Treatment Technologies
  - Pollutant removal efficiencies of various treatment technologies
- Answered questions from the floor.

## May 2014 – Presentation to RAMS re: Levee Accreditation & Certification

- Prepared a presentation that involved accreditation and certification requirements for flood control levees.
- Other presenters included a real estate agent and an insurance agent.
- The intent of the combined presentations was to provide background on the pending flood insurance changes, how these changes would impact owners of homes within designated flood zones, and options to bring some areas out of these zones.

## September 2014 – Annual Farm & Agricultural Tour

- Attended Soil & Water's annual Farm & Ag Tour.
- The recently construction River Road Reinforced Soil Slope Project was a stop on the tour.
- Provided information to other attendees regarding the River Road Reinforced Soil Slope Project and answered questions.



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# WQIP GRANT APPLICATIONS

- Chemung Co. DPW Salt Storage & Water Quality Improvement Project - \$101,250
- Stream Bank Stabilization Project to Protect the Village of Horseheads Water Filter Plant - \$110,250



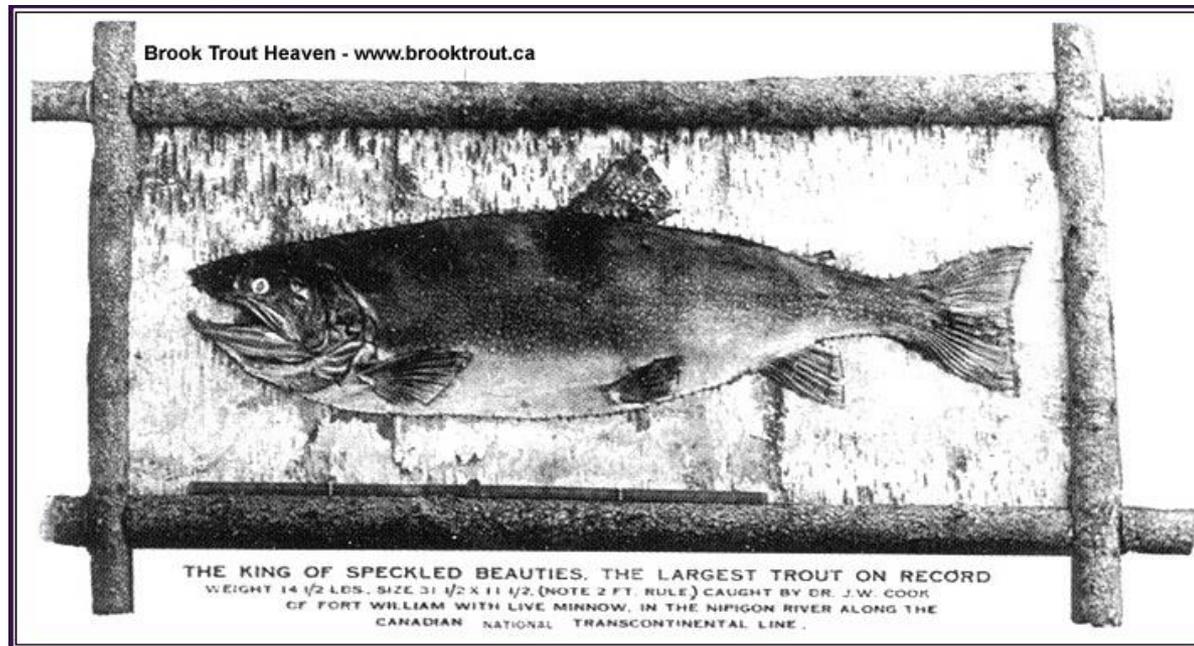
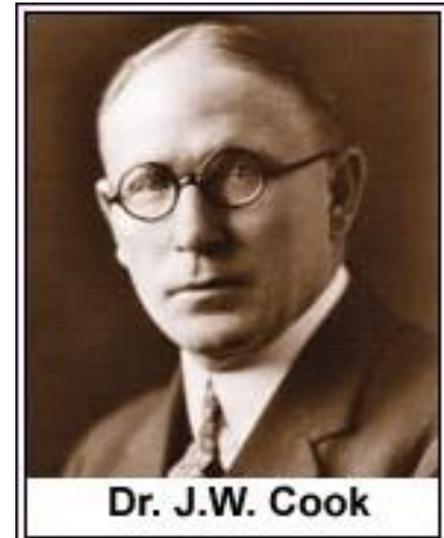
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# A CLOSING STORY



- The world record Brook Trout was caught in 1916 by Dr. J.W. Cook.
- The fish weighed 14.5 pounds and 31.5 inches in length.
- The fish was caught from the Nipigon River in western Ontario.



# New World Record Brook Trout?



- In 2007, Tim Matheson of Manitoba, landed a large Brook Trout from Barbe Lake in Manitoba.
- This fish measured 29 inches in length with a girth of 21 inches.
- Mr. Matheson is a catch-and-release angler. After carefully measuring the fish, it was photographed and released.
- Based upon the fish's dimensions, the provincial Angling Program Manager estimated the weight of the fish to be between 15 and 17 pounds.

- Mr. Matheson's giant Brook Trout was estimated to be larger than the 1916 World Record fish.
- Because Mr. Matheson's Brook Trout was not weighed, the IFGA does not officially recognize his fish as the new world record, although Manitoba officially recognizes it as the provincial record.
- Mr. Matheson feels that meeting the IFGA requirements for weighing the fish would have most likely resulted in its death.
- Mr. Matheson indicated that such an outcome was never a consideration in his mind.