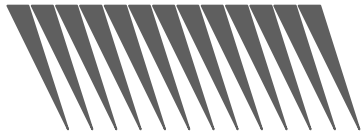
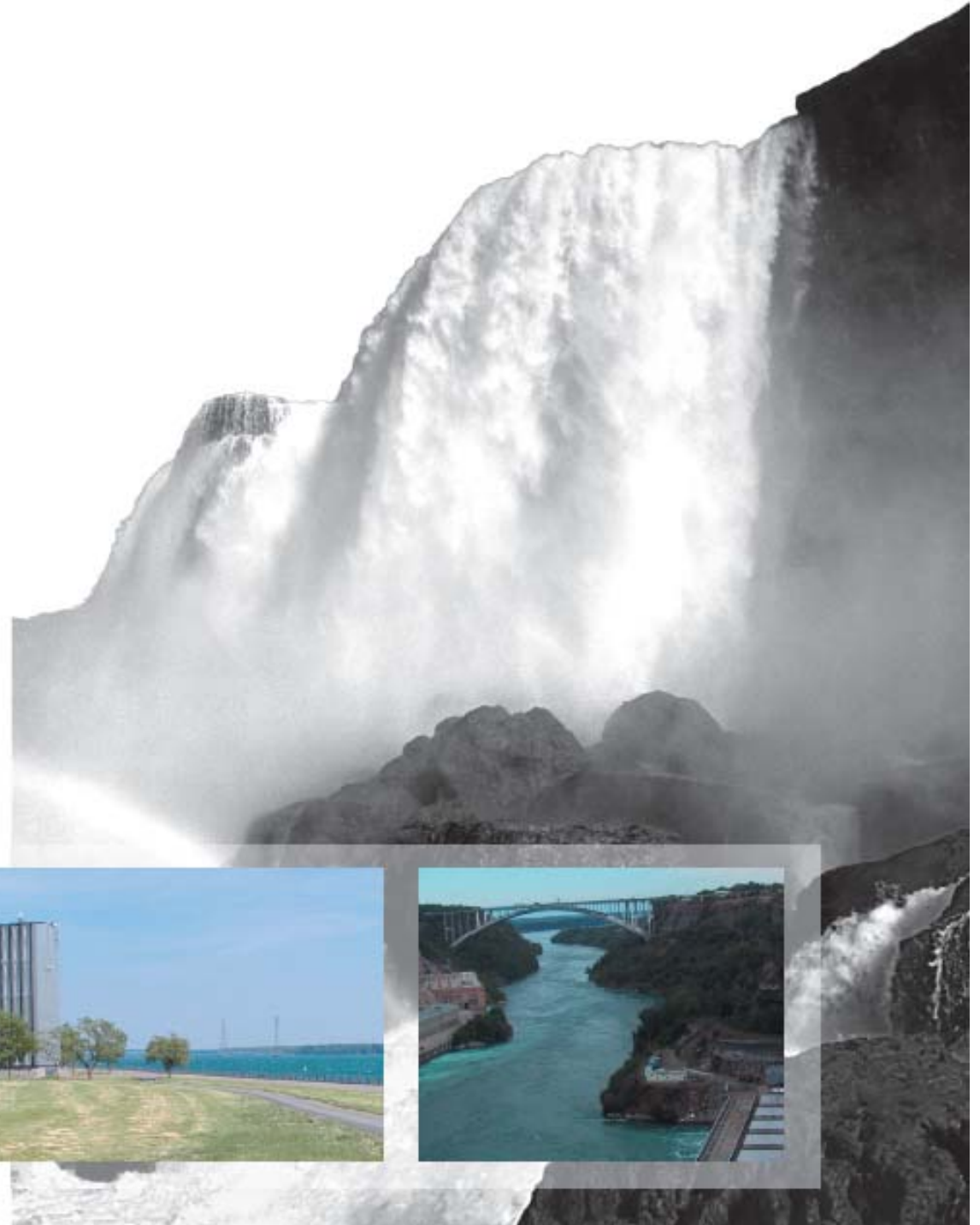


NIAGARA POWER PROJECT



RELICENSING IMPLEMENTATION

Ecological Standing Committee Meeting



May 28, 2008

Agenda

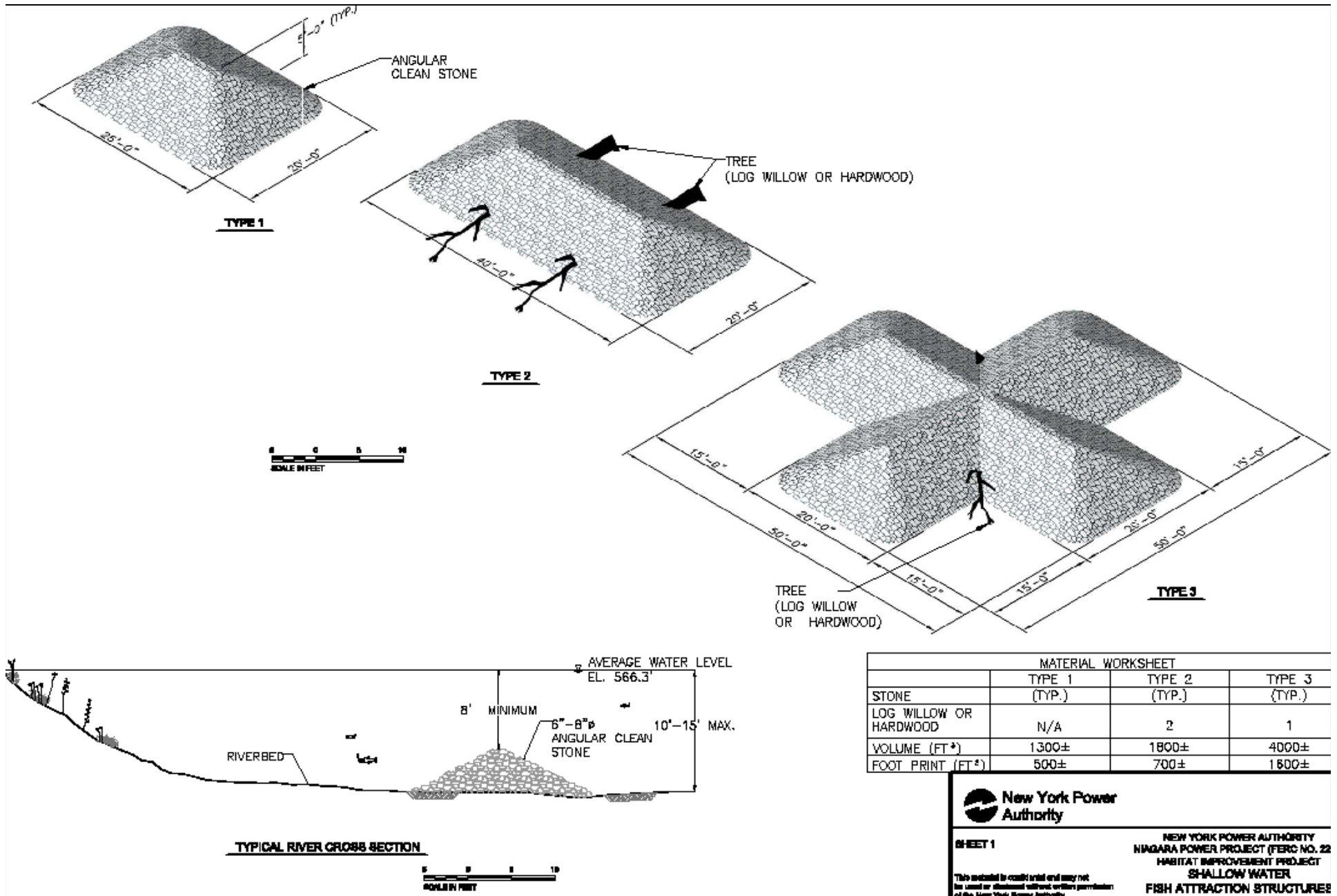
- ❑ Update on selected Habitat Improvement Project Designs and Schedules
- ❑ Results of the Feasibility Study for Protecting and Restoring Native Plants in the Vicinity of the Niagara Gorge.
- ❑ Action Items from the February 15, 2008
- ❑ Meeting Wrap Up / Action Items

Fish Attraction Structures

Shallow Water Structures

- Design Complete for three prototypes
- Gratwick Park
- 10 ft depth (5 ft min clearance during boating season)

Shallow Water Fish Attraction Structures

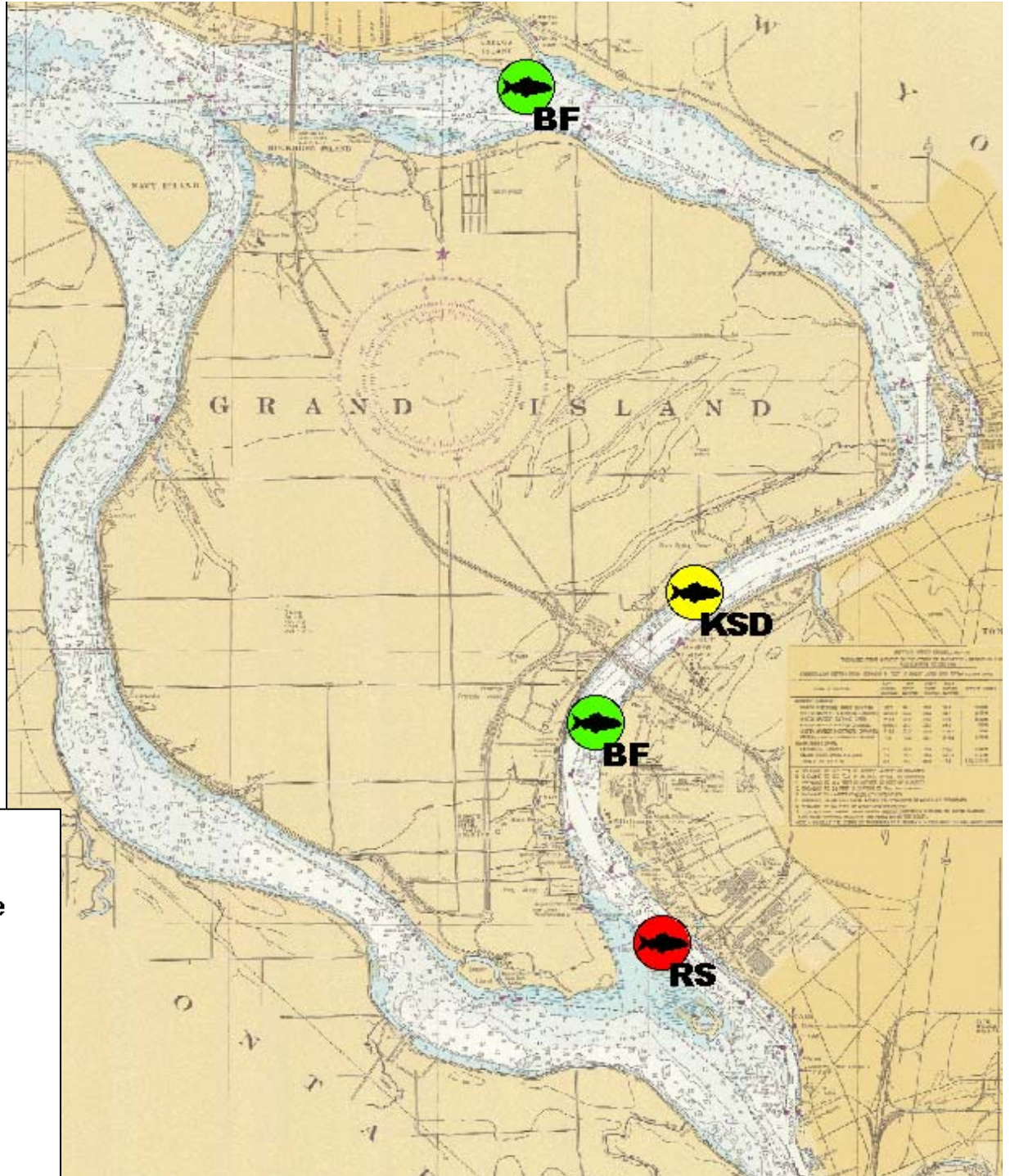


Fish Attraction Structures cont.

Deep Water Structures

- Input from Angling Clubs
 - Locations
 - What fish like
- Four locations identified by NYSDEC
- Three conceptual designs
 - Boulder field
 - Rock slope
 - Saddleback


Potential Deep Water Fish Attraction Structures identified during 03/27/3008 Meeting with the NYSDEC and the Niagara Muskie Association



Legend

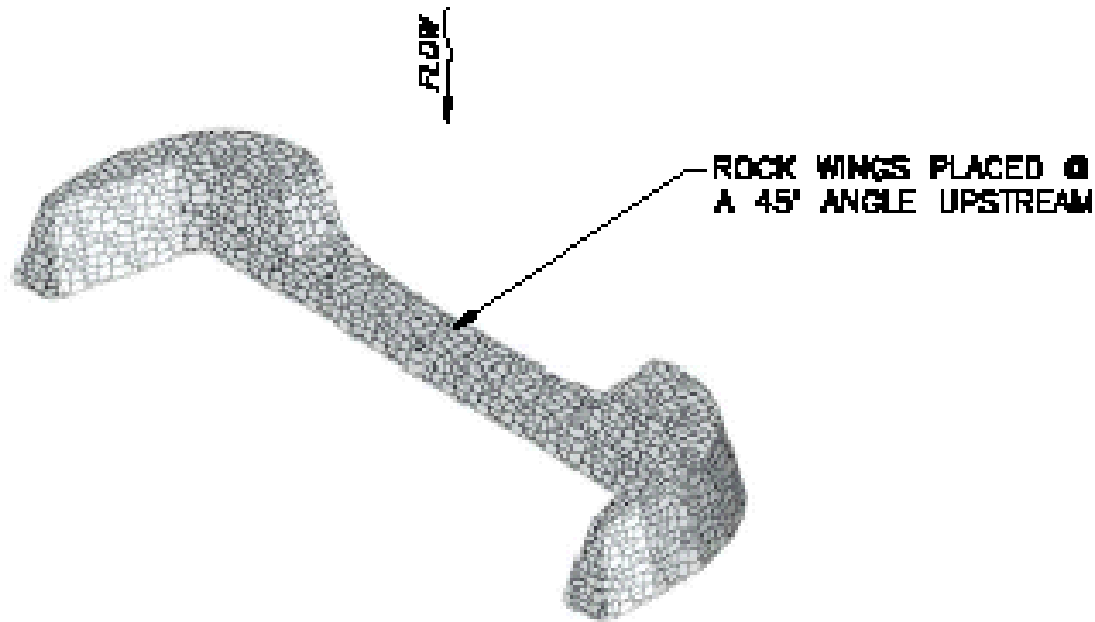
Potential Deep Water Fish Attraction Structure

 **BF** Boulder Field

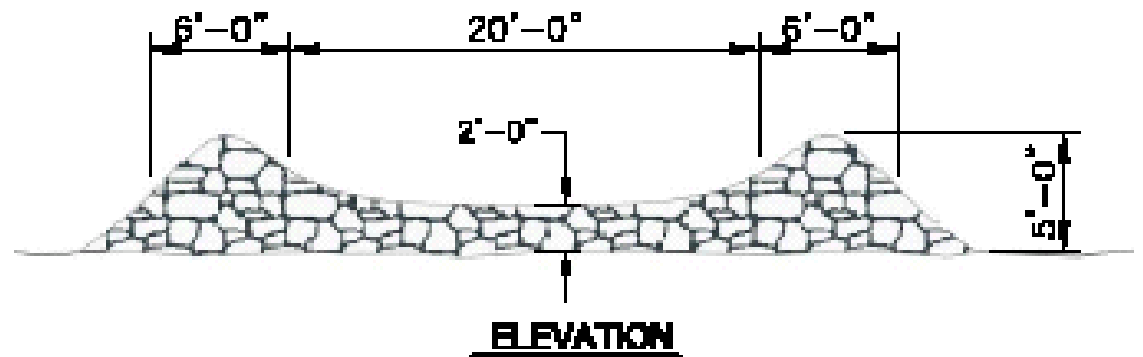
 **KSD** Kinner Saddleback Design

 **RS** Rock Slope

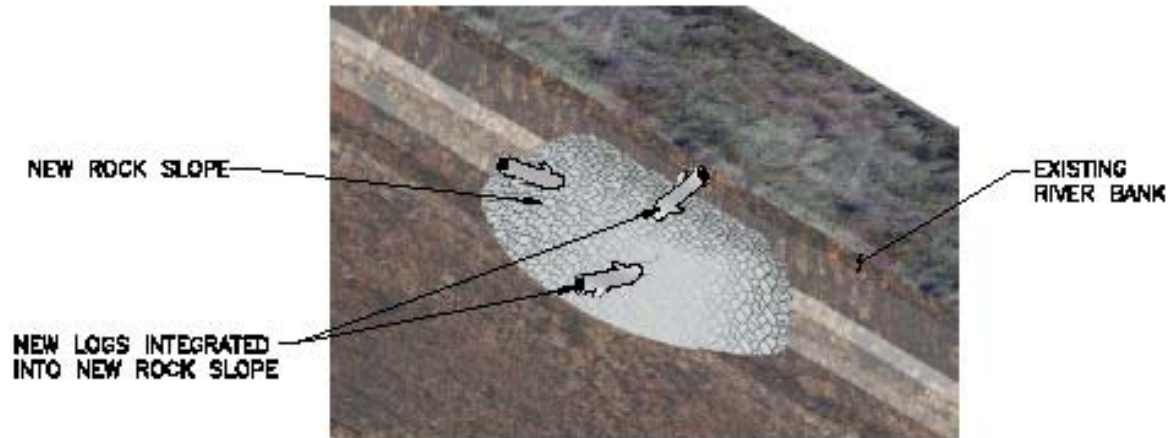
“Saddleback” Structure



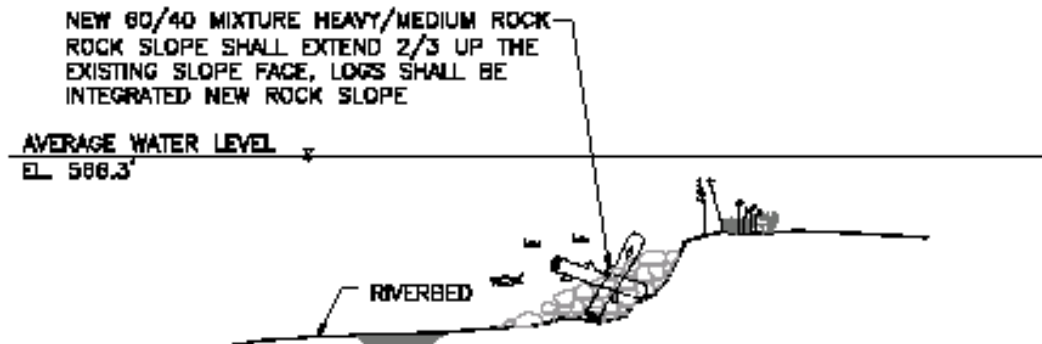
ISOMETRIC VIEW/ ROCK WING



Rock Slope



ISOMETRIC VIEW/ ROCK SLOPE



ROCK SLOPE DETAIL

Fish Attraction Structures cont.

Remainder of 2008

- Permitting
- Issue RFP through NYPA Procurement
- Hire contractor
- Investigation of habitat in specific locations prior to installation
- Install (October)

Common Tern

Nesting Update 2008

- Preliminary count = 1500 nesting pairs
- Nest numbers higher on Upper River
- Experiment with new enclosure and larger nesting box

HIP Design

- Structural modifications to breakwater cement may not be feasible
- Discussions continue over rafts or barges

Osprey

Platform Location in 2008

- East River Marsh
- Potential locations in marsh identified
- Tree height measured
- NYSDEC selected location
- Design pole installation
- Issue RFP for platform construction
- Install platform, (Fall, 2008)

Potential Osprey Platform Locations in East River Marsh



Invasive Species

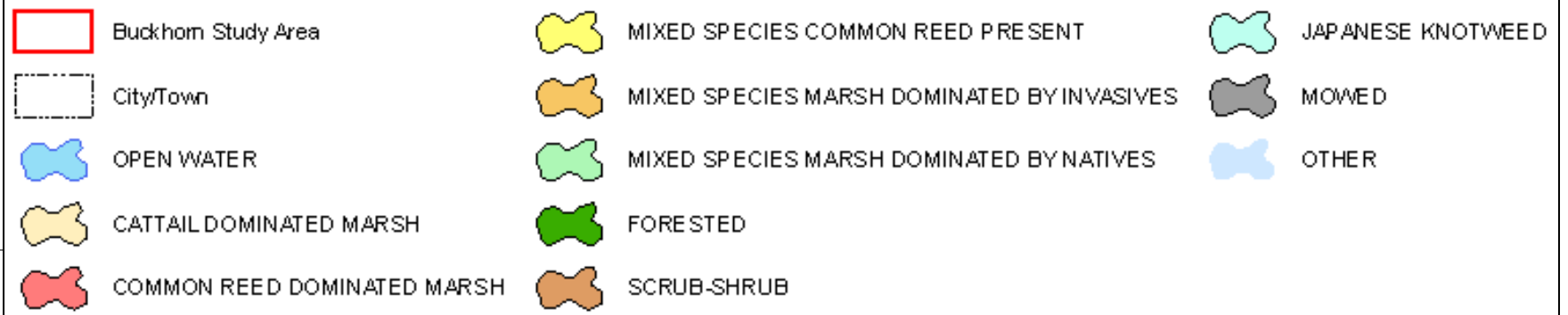
Work Completed

- Contacted Paul Fuhrman (western NY PRISM), provided insight into Buffalo area issues
- Winter survey - Buckhorn Marsh and Tifft Nature Preserve (worked in conjunction with Dave Spiering)
- Preliminary mapping of results

Remainder of 2008









- Conduct Summer Survey (July)
- Develop Invasive Species Action Plan (Fall)
 - Report on existing conditions
 - Provide blueprint for actions in the future

BUCKHORN COVER TYPE PRELIMINARY MAPPING



TIFFT COVER TYPE PRELIMINARY MAPPING



-  Tiff Study Area
-  City/Town
-  OPEN WATER
-  CATTAIL DOMINATED MARSH
-  COMMON REED DOMINATED MARSH
-  MIXED SPECIES COMMON REED PRESENT
-  MIXED SPECIES MARSH DOMINATED BY INVASIVES
-  MIXED SPECIES MARSH DOMINATED BY NATIVES
-  FORESTED
-  SCRUB-SHRUB
-  JAPANESE KNOTWEED
-  MOWED
-  OTHER

Feasibility Study for the Restoration of Native Terrestrial Plants in the Vicinity of the Niagara Gorge

**TRC Solutions
Riveredge Associates**

Review Action Items