



NPS Task Force December 2005

**Sponsored by
Red River
and
Lake Agassiz
Regional
Councils**

Riparian Project History

- Phase I (1992-97) – Education and Demonstration
- Phase II (1998 – 2003) – Capacity Building and Implementation
- Phase III (2003 – present) – Implementation and Technology Transfer

Riparian Project History

■ Phase I Accomplishments

- Developed a RAC and engaged natural resource management agencies
- Completed four Riparian BMP Demonstrations
- Held four educational workshops on riparian management
- Created a variety of educational materials

Riparian Project History

■ Phase II Accomplishments

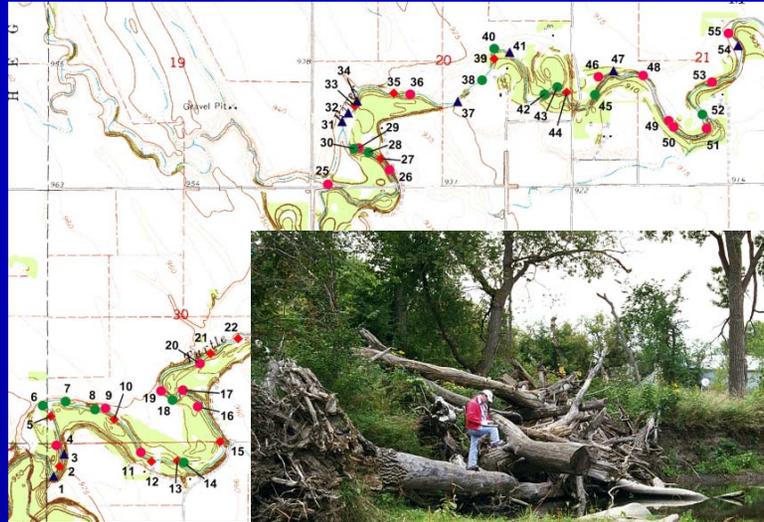
- Established staff to provide technical assistance
- Completed eight riparian BMP demonstration sites
- Wrote 341 management plans representing over 28,000 riparian zone acres
- Restored 74 miles of riparian zone using 20 different types of BMPs
- Hosted four basinwide training workshops

Phase III Goals



- Directly assist landowners with the restoration, protection and management of 105 river miles or riparian area
- Coordinate delivery of multiple programs for better riparian management

Phase III Goals



- Produce 245 riparian forest management plans
- Use existing GIS technology for data handling, resource assessment, planning and monitoring of riparian zones
- Monitor for long-term changes on restored reaches

Phase III Goals



- Instill ownership and promote stewardship of river reaches through local involvement
- Inform and educate basin stakeholders on the benefits of a healthy riparian zone
- Increase awareness and expertise by providing training opportunities and educational materials

Project Organization

Sponsors:



Red River and
Lake Agassiz
RC&Ds



Subcontractors:



EERC



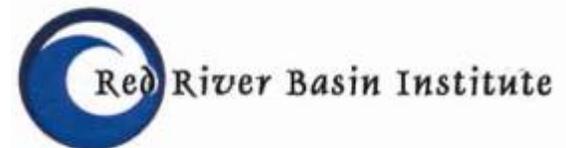
Project Organization

■ Riparian Advisory Committee:

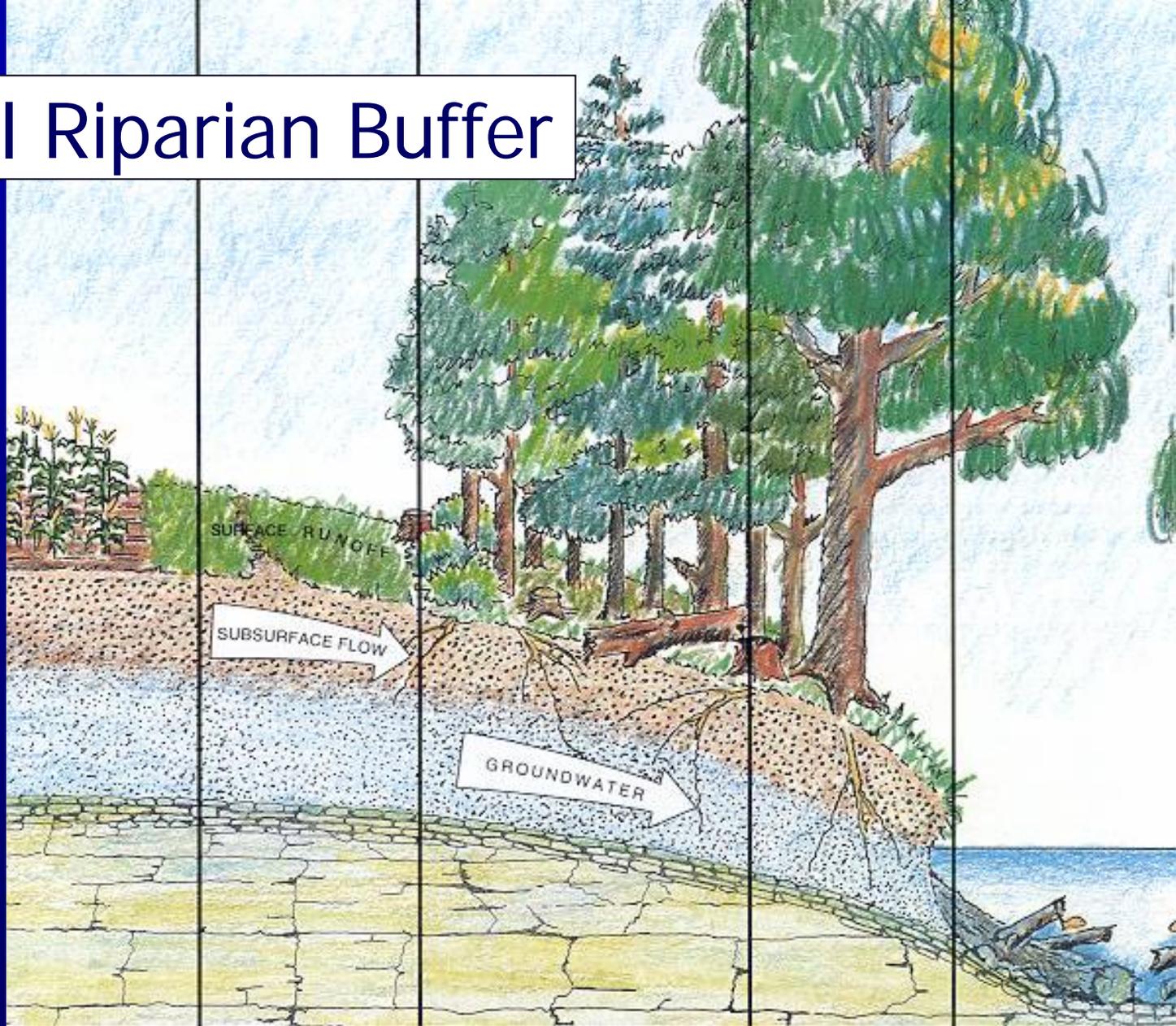
Local Landowners, Water Resource Boards, Soil Conservation Dist.



North Dakota
Game & Fish



Ideal Riparian Buffer



Cropland

Runoff Control

Managed Forest

Undisturbed
Forest

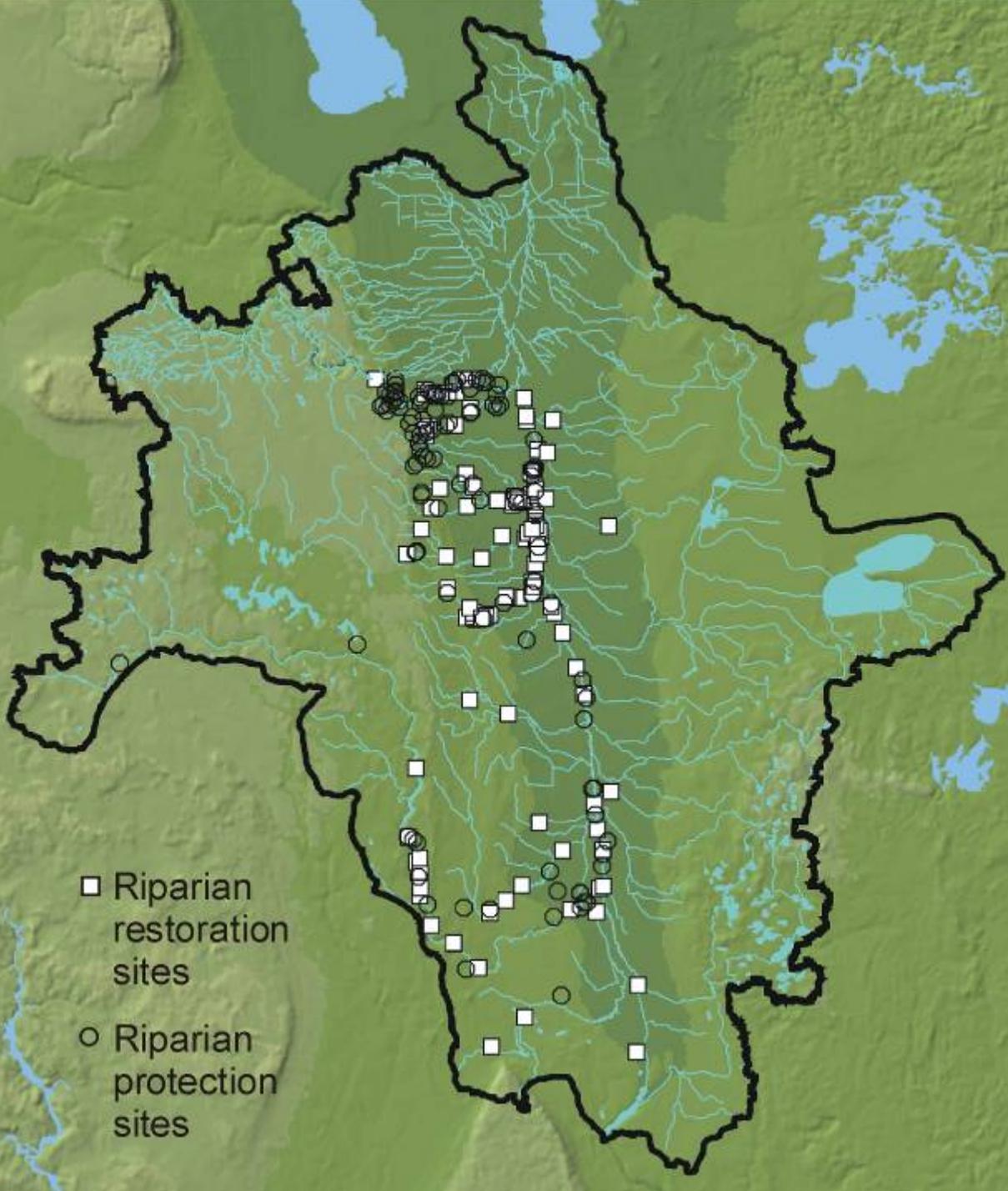
Stream Channel

*How do we have proper
functioning Riparian Buffers?*

Restoration

Protection

Management



Phase III Accomplishments

**13 miles of restored
riparian zone**

**66 riparian forest
management plans for
6286 acres**

**provided over \$332,000
in cost-share to assist
over 50 landowners and
communities**

Phase III Progress

- Spent \$598,742 319 funds (46% of grant)
- Assisted over 50 producers (not including technical assistance and FRM Plans)
- Local cost-share contributions of \$136,000 (\$92,000 is from sources other than LO)
- Helped to provide over \$80,000 from other Federal Programs
- Provided technical assistance to programs in Barnes and Mercer Counties.



Creating a Link Between Education and Application



A group of children and adults are gathered around a table, looking at a map or display. The children are of various ages, and the adults are wearing dark clothing. The scene is indoors, possibly in a museum or educational center.

Tours and Displays

- ND State Forestry Tour
- ND Inter-Agency Tour
- Riparian Grazing Tour
- Land and Water Stewardship Conf.
- Fargo and GF Water Festivals
- Eco-Ed Camps

Training Workshops



- GIS/GPS Training For Forest Management Planning
- Bioengineering Training for Barnes Co. and 319 Coordinators
- Contractors Bio-eng. Training WS I, II, & III

Bioengineering Workshop I



Bioengineering Workshop I



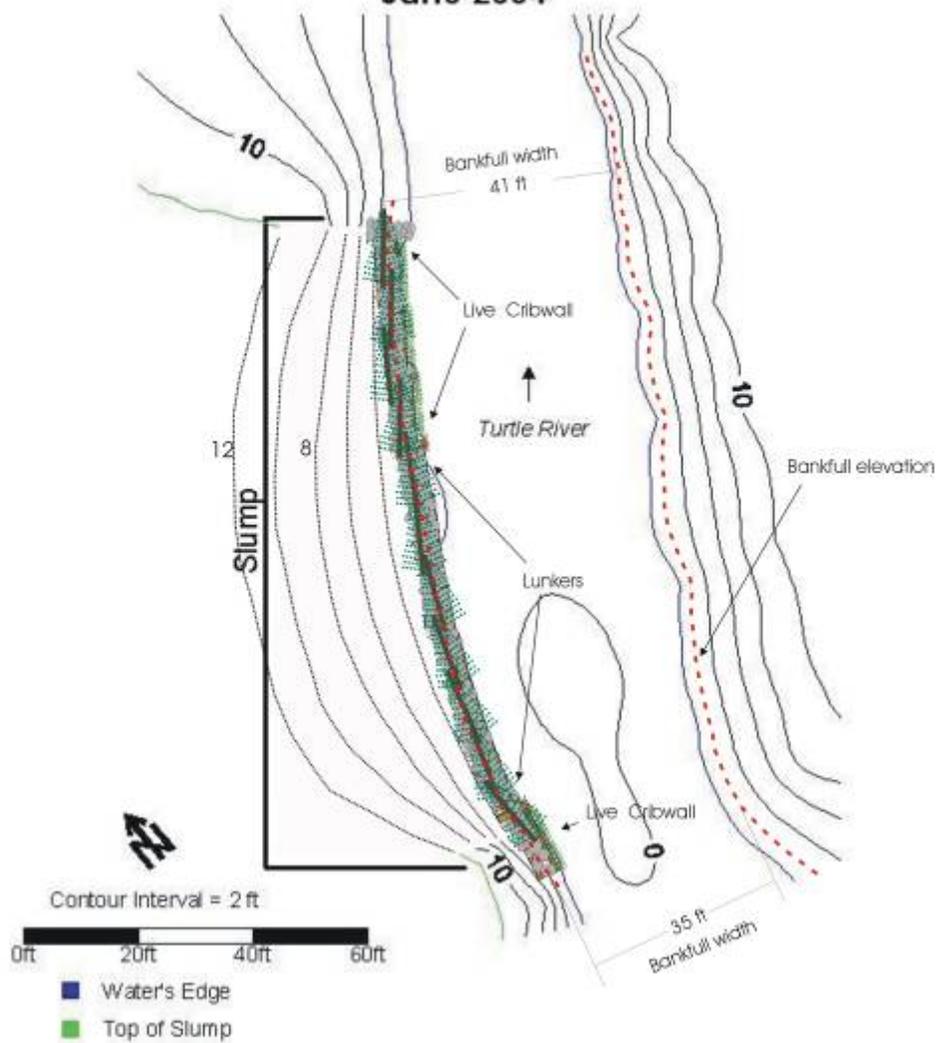
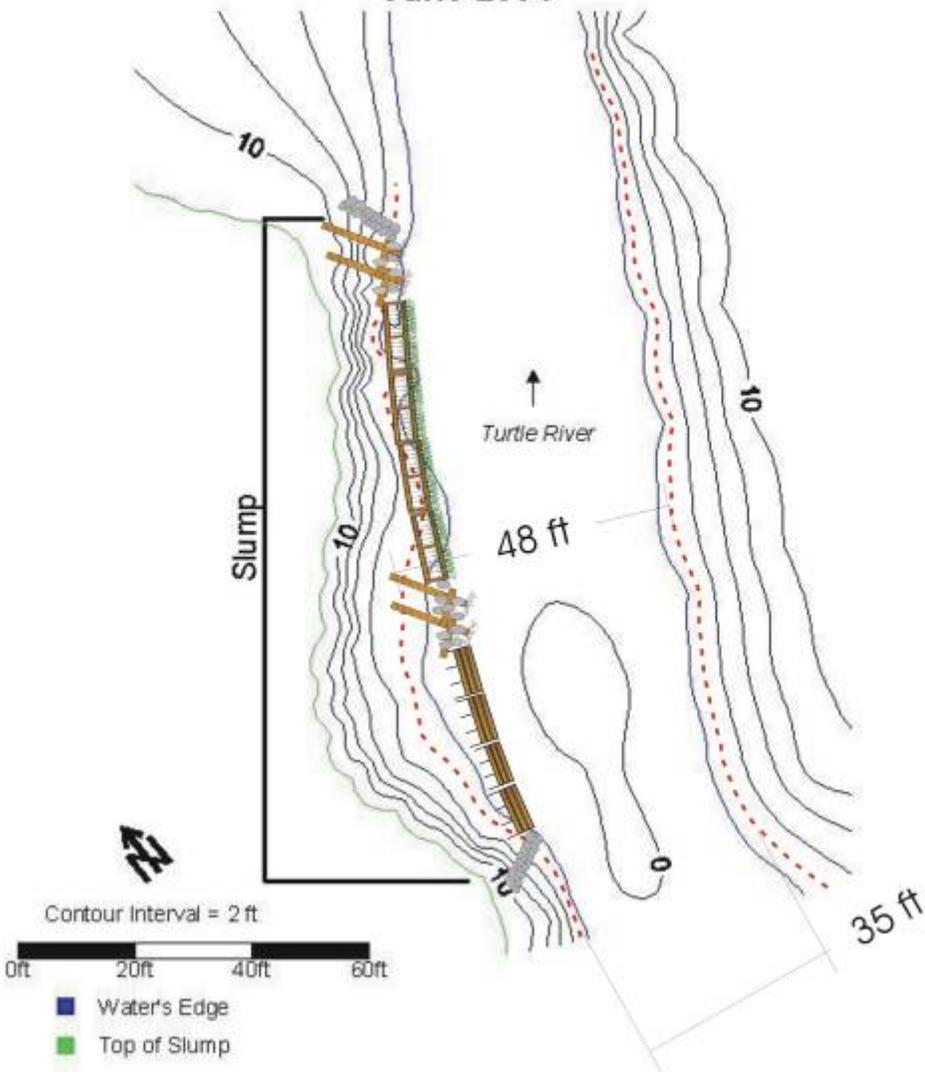


RRBRP Restoration Workshop 2004

Turtle River State Park
Bank Stabilization/Trout Habitat
Funded by WHIP/EPA Sec. 319

Turtle River State Park
Driving Bridge
June 2004

Turtle River State Park
Driving Bridge
June 2004



Design drawings for restoration

Reshaping the slope to 3.5:1





Placing lunkers at slope toe



Lunkers and cribwall
complete



Looking upstream during
bankfull event June 2005



Looking upstream
July 2005



Lunkers at baseflow
July 2005



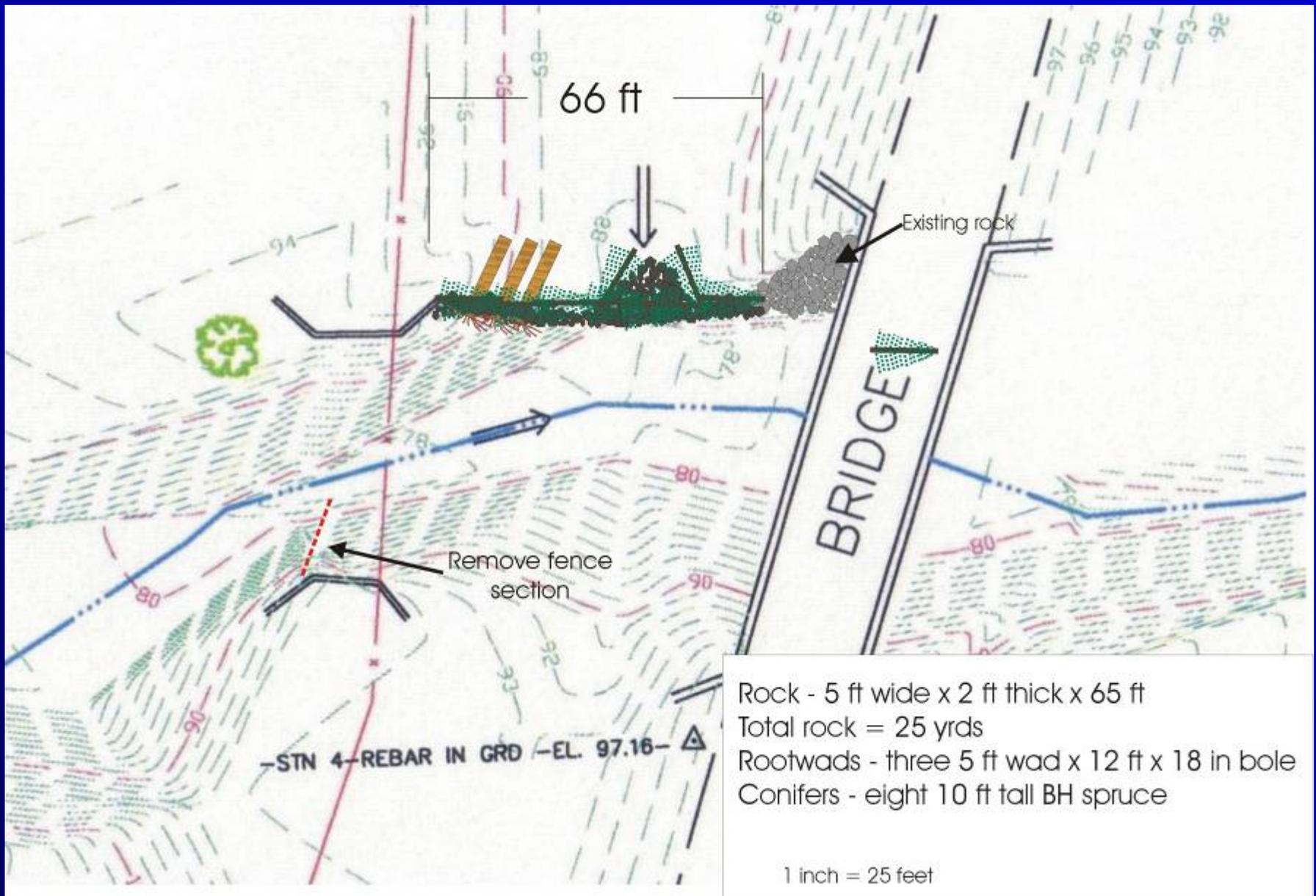
**Bioengineering Training
Workshop
Mandan 2005**

**Sweetbriar Creek
County Road 18**

**Sponsored by Morton County Hwy Dept.,
Dakota Prairies RC&D, and
Red River Basin Riparian Project**

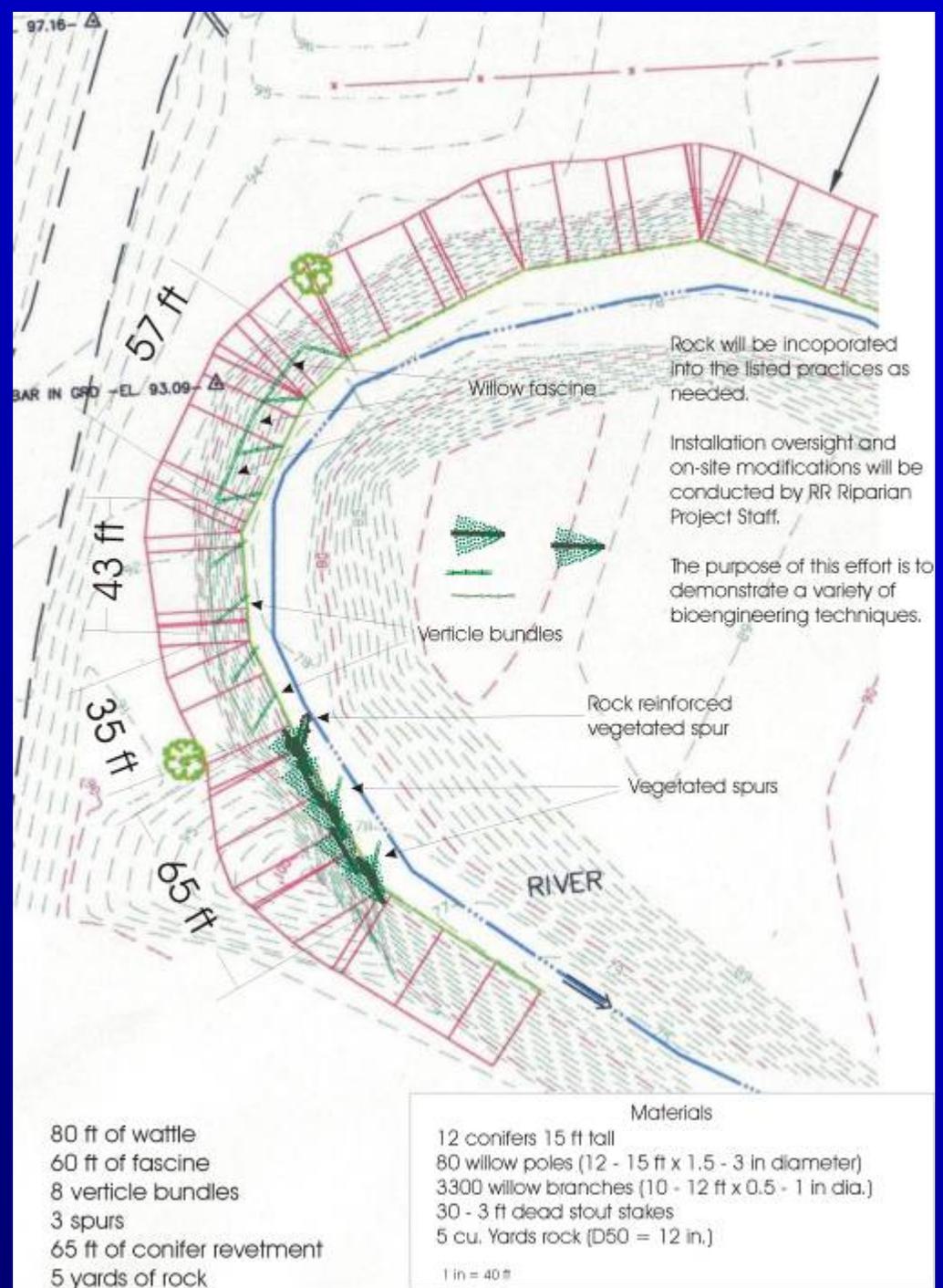
Classroom with 43 attendees





Design drawings for restoration

Design drawings for restoration



Reshaping the slope



Introduction of field exercise



Conifer revetment near bridge



Installing willow wattle and vertical bundles



Looking upstream at nearly complete site



Complete site November
2005



Riparian Buffer Establishment



Willow pole and post planting



Upper Sheyenne Riparian Range and Forest Stand Improvement



Brushlayering – Wild Rice Cass County



Lakeshore Stabilization Sargent County



Lakeshore Stabilization Sargent County



Natural Channel Restoration Richland County



Natural Channel Restoration Richland County



Current Projects

- Servicing requests from over 35 landowners with riparian issues
- Developing stream management plans for reaches of Cart Creek, Tongue River, and Sheyenne River
- Providing riparian technical assistance to over four watershed projects in RRB
- Actively cooperating with NRCS to implement WHIP and CRP in 5 counties.

And we have a long way to go.....



Red River Basin Riparian Project Informational Products

- Website

www.health.state.nd.us/RRBRP

- Reports

- Articles

- ND Forestry BMP manual

