Butterfield Country Club Stream Restoration Project

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Project Location

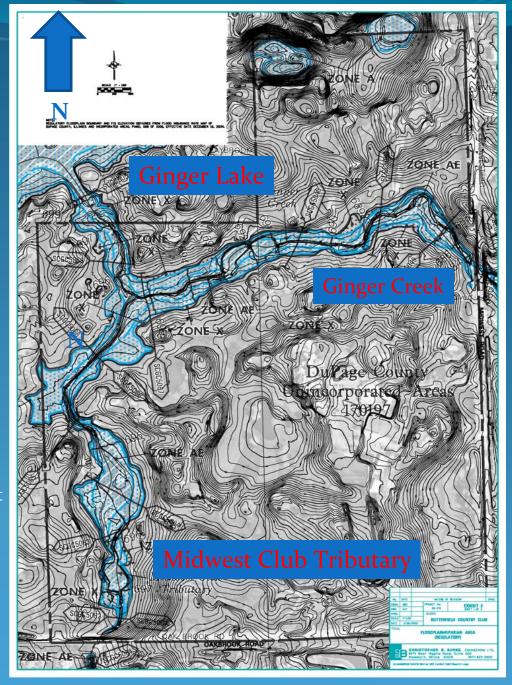
The Butterfield Country Club is –

- •36-hole Private Country Club
- •Unincorporated DuPage County
- •Surrounded by the Village of Oak Brook
- •Northwest of the Midwest Road and 31st Street Intersection
- North of Ogden Avenue
- South of Butterfield Road
- •West of Kingery Highway (Rte 83)



Ginger Creek and Midwest Club Tributary

- •Ginger Creek flows through Ginger Lake
- Crosses under Baybrook Lane
- •Enters the property from the north
- •Tributary area of 2 mi²
- •Combines with the Midwest Club Tributary
- Continues east to Midwest Road
- Midwest Club Tributary crosses 31st Street
- Enters the property from the south
- Tributary area of 0.9 mi²
- *Combines with Ginger Creek in the northwest corner of the property



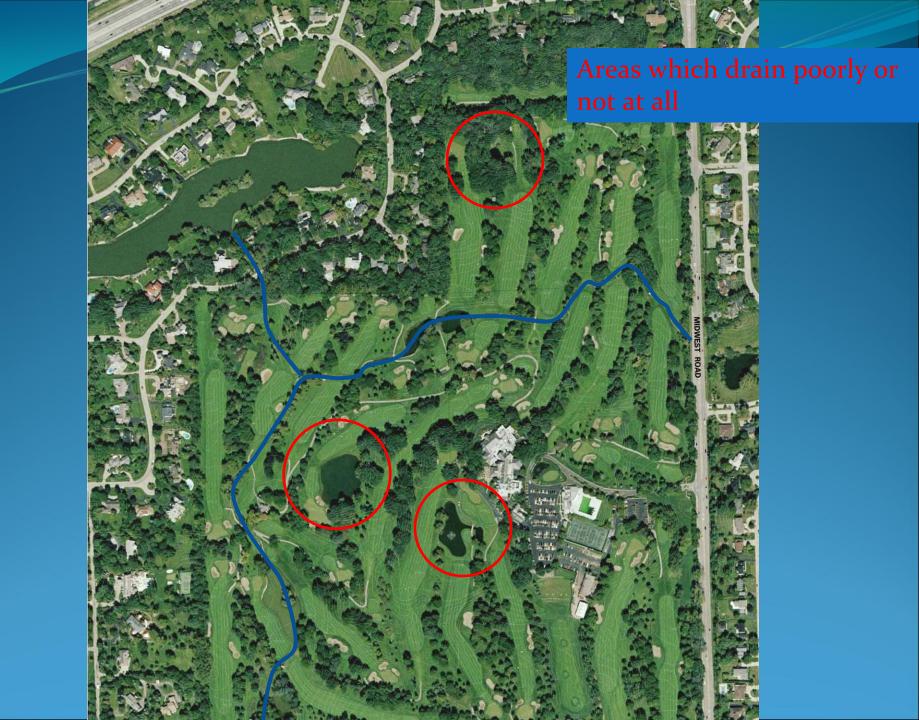
Site Issues

•Stream bank Erosion

Eroding banks are undercutting bridge abutments and removing fairways

•Overall Poor Course Drainage

Drainage system has had minimal up grading, thus resulting in difficult golf course maintenance



Project Responsibilities

•CBBEL

Stream Restoration, Drainage Improvements, Engineering plans and Permitting

•Steve Smyers Golf Course Architects

Master Plan for Golf Course Renovations









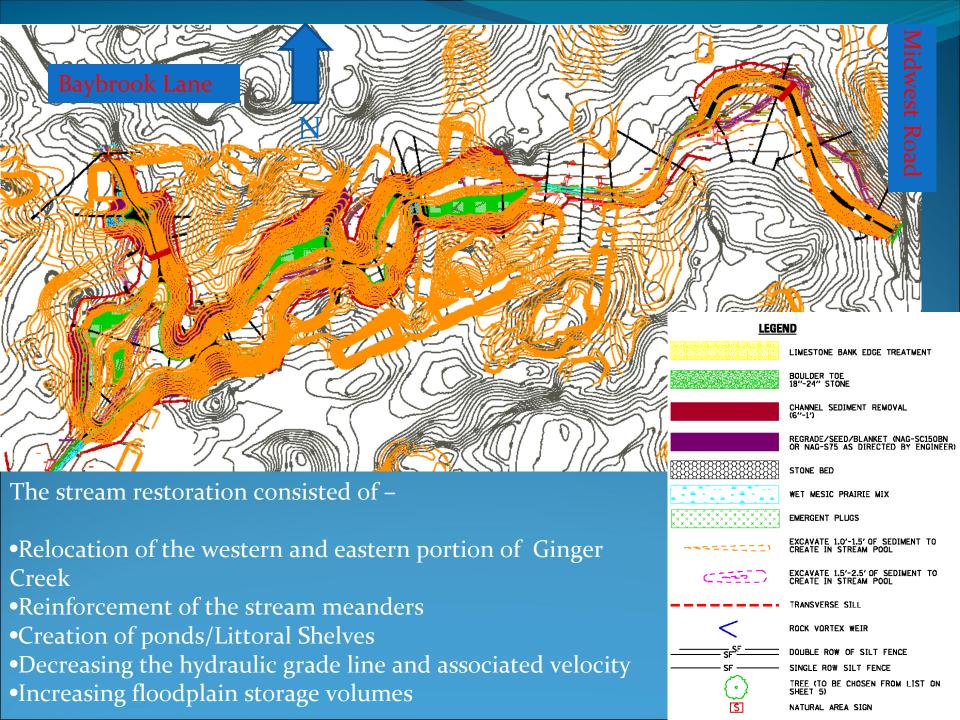




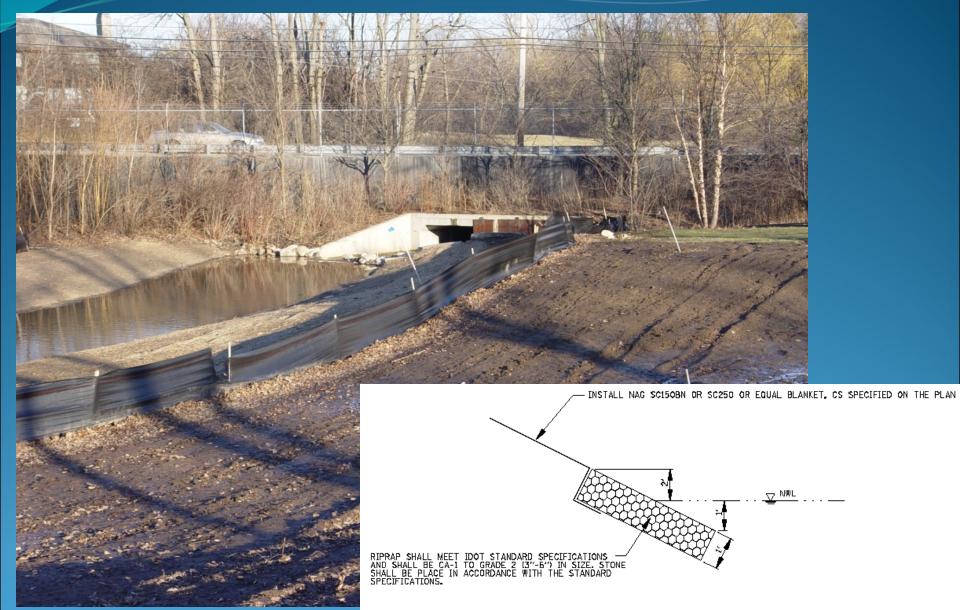
DuPage County Watershed Plan - 1991

The recommended Capital Improvement Plan included the following projects within Butterfield Country Club:

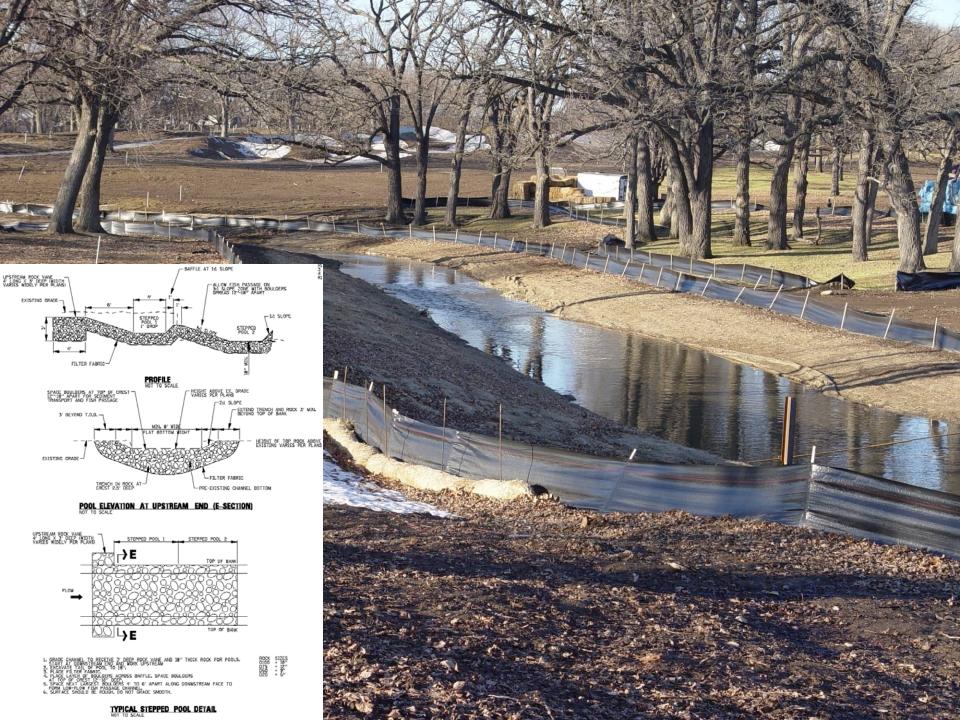
- •Relocate and lower the Ginger Creek reach entering Butterfield Country Club
- •Straighten Ginger Creek upstream of the replaced Midwest Road culvert crossing

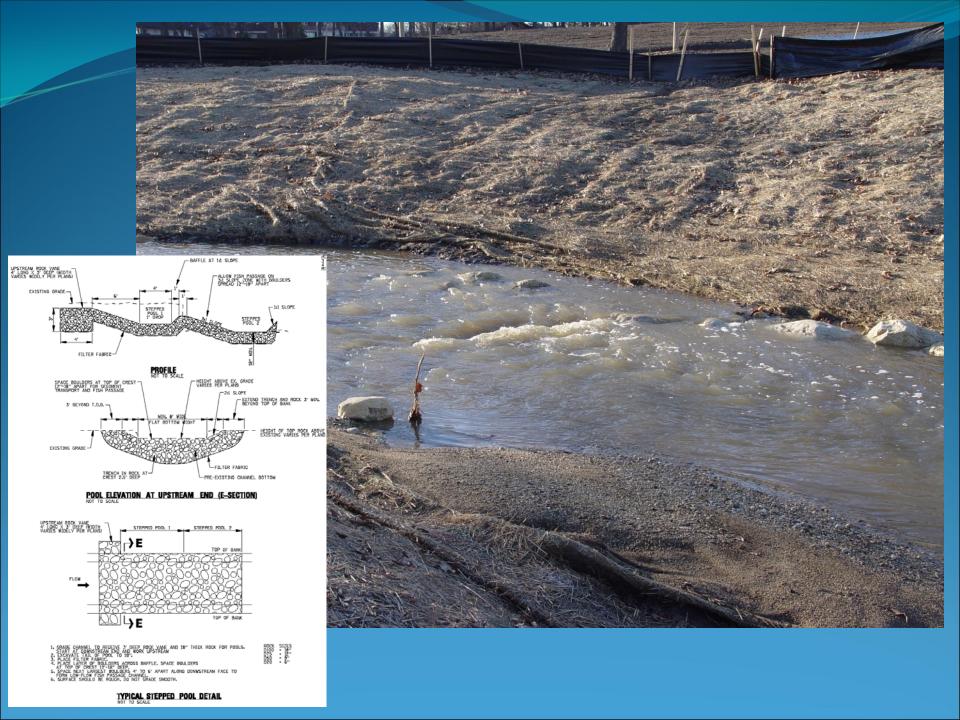


Ginger Creek East Relocation



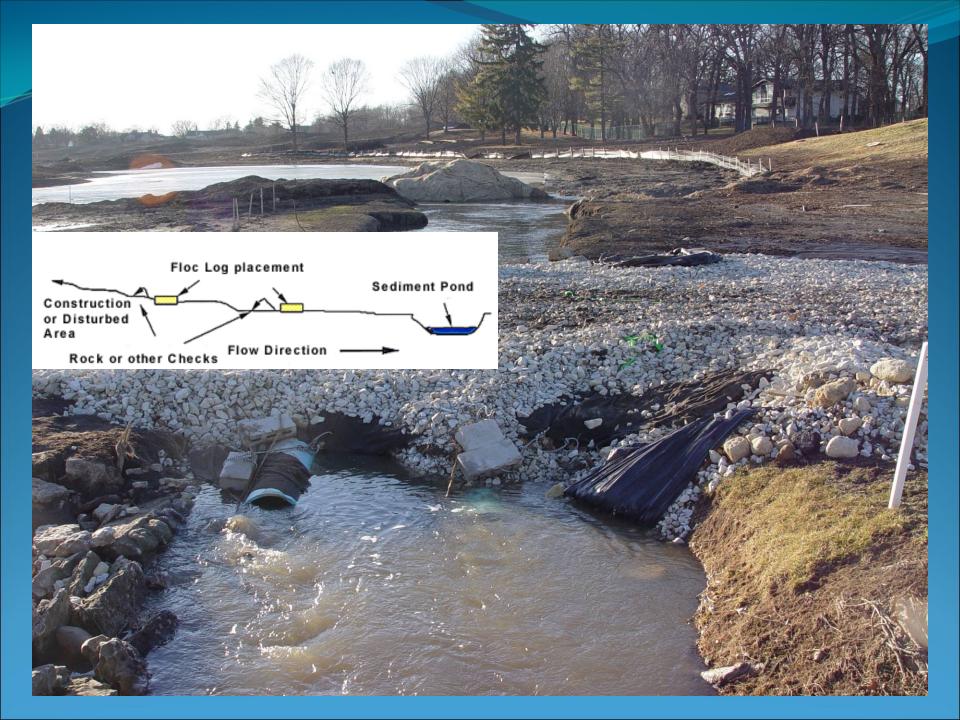
RIPRAP DETAIL NOT TO SCALE



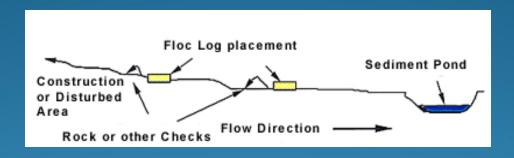








Floc Log Application



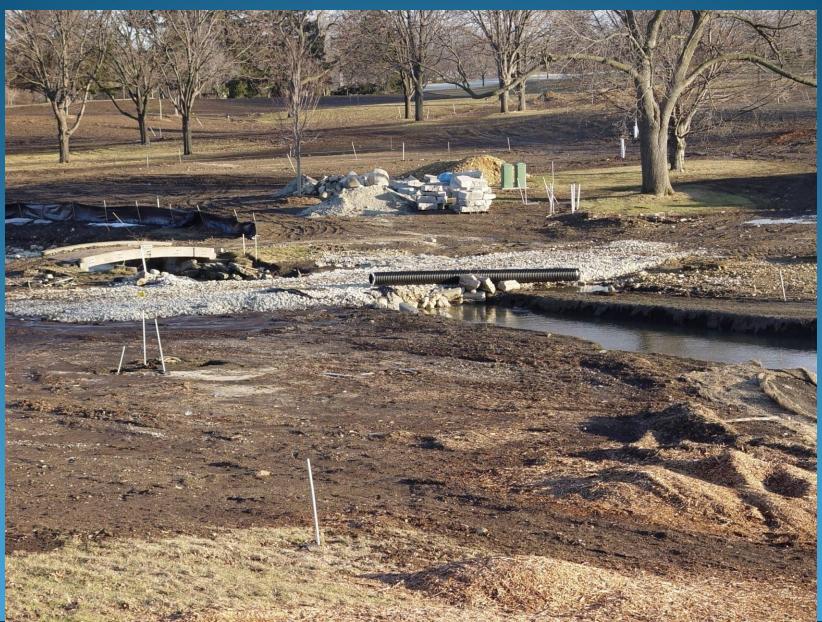








Ponds and Wetlands



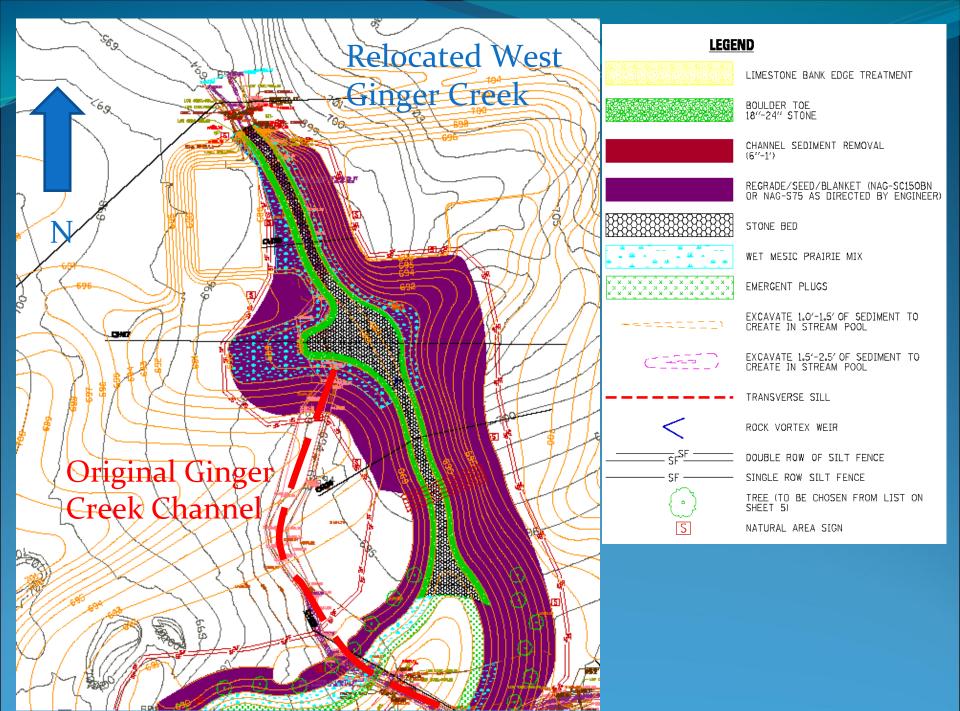






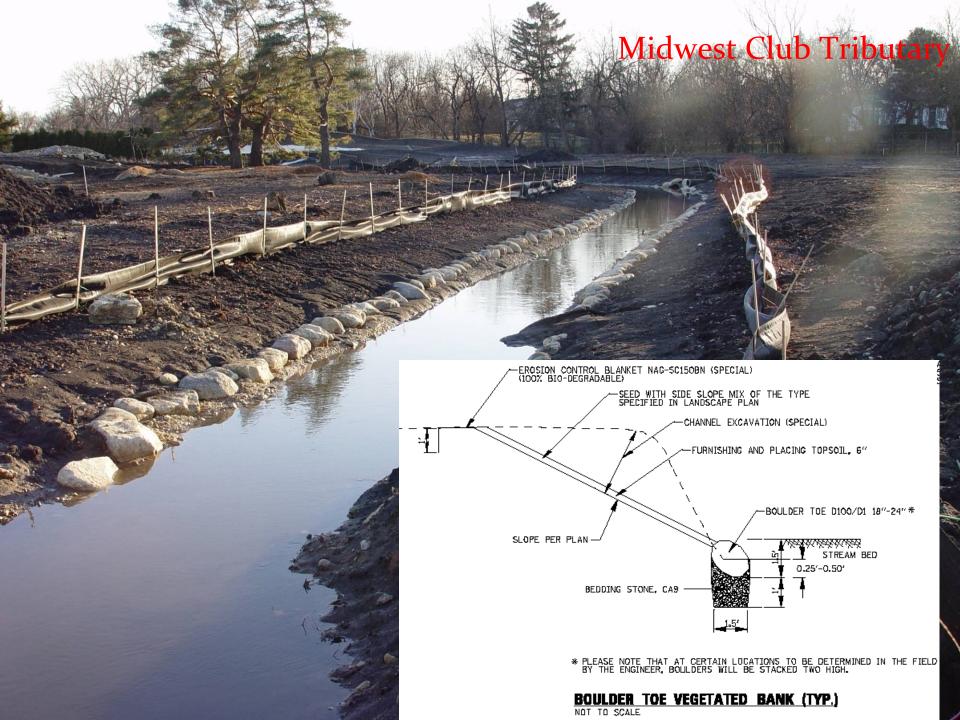






Relocated West Portion of Ginger Creek







Questions?

