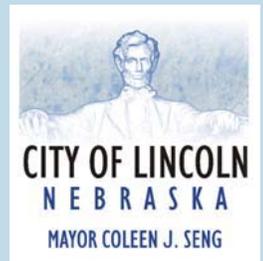


Holmes Lake Southwest Tributary Stream Stability Project



CITY PROJ. # 702250
MARCH 2007

Overview

- The City of Lincoln, in cooperation with the neighboring home owner's association and the Lower Platte South Natural Resources District, is proposing to construct a stream stability project along a tributary to Antelope Creek from 70th Street to Forest Lake Boulevard.
- This project has been identified for construction to help improve the quality of water flowing in the recently restored Homes Lake.
- While performing work along the tributary, the City plans to reconstruct the large storm sewer outfall on the east side of Bison Drive.
- Also as part of the project, the City would like to make improvements to the existing wetland area on the west side of 70th Street.
- The City has hired Olsson Associates to design the technical components of the project.



Existing Problems

- Along the tributary, there are several hundred feet of near-vertical, unstable banks.
- Active erosion is taking place in the bottom of the channel that will lead to further bank erosion along the tributary.
- Severe erosion can be found at the outlet of the storm sewer on the east side of Bison Drive.
- The existing wetland on the west side of 70th Street is full of sediment and currently it provides only limited water quality benefits to Holmes Lake.

Proposed Project

- Stabilize eroding stream banks with grading, erosion control blankets, tree plantings, and seeding.
- Construct rock riffles in the bottom of the stream to prevent further erosion.
- Construct gabion headwalls and a rock plunge pool at the storm sewer outfall east of Bison Drive.
- Excavate areas in the existing wetland on the west side of 70th Street to improve sediment and nutrient trapping efficiency of the wetland.
- Maintain most of the existing trees and vegetation.

Timeline

- Construction plans are currently being developed for the project.
- Construction is anticipated to begin in mid to late summer 2007.
- Anticipated project completion date is late fall 2007.

Questions, Comments?

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Holmes Lake Southwest Tributary

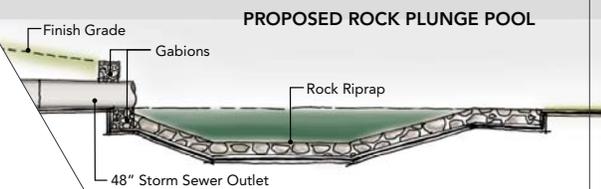
Stream Stability Project | March 2007



LEGEND

-  Bank Stabilization Area
-  Minor Maintenance Area
-  Rock Riprap
-  Wetland Vegetation
-  Buffer Zone
-  Shallow Pool Area
-  Deeper Pool Area (2' - 4')

MOLSSON
ASSOCIATES



Existing Stream



Proposed Rock Riffle



Existing Wetland



Proposed Wetland

