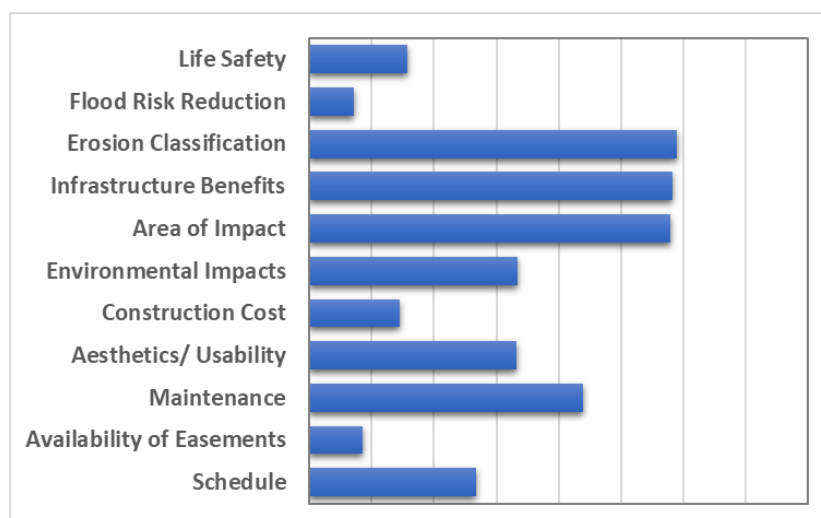
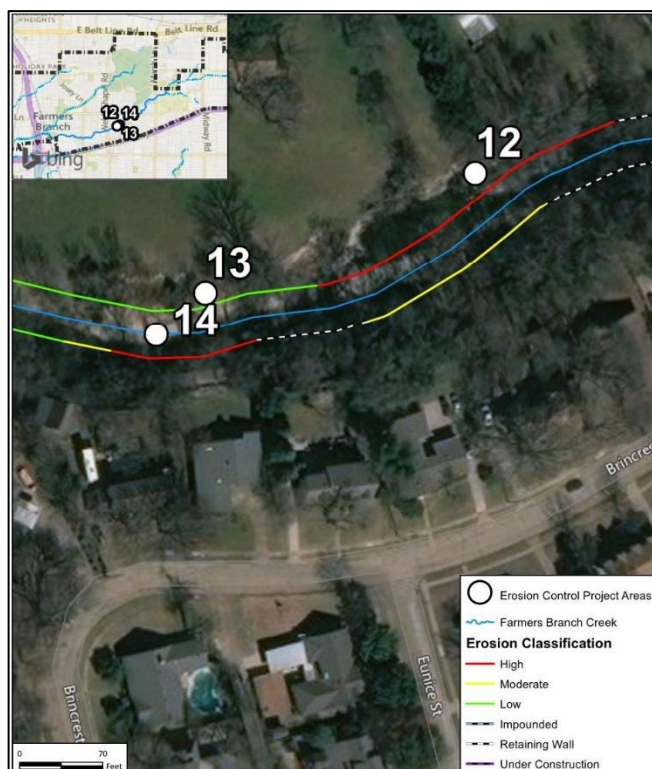
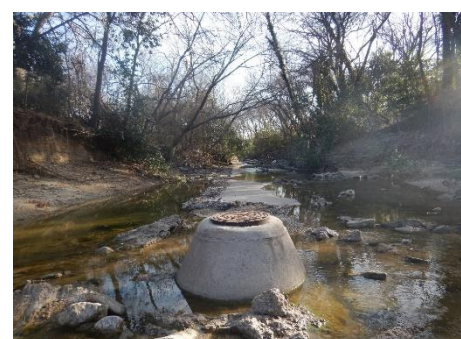


Reference Address:	3100 Block of Brookhollow Dr		
Project ID: E-12	CIP Rank: 2 of 29	Score: 17.3	Estimated Cost: \$764,340
Problem Description:	Pipe exposed downstream of manhole; pipe exposed on bed; Manhole in center of channel at a junction of three lines; Eroded right bank next to manhole; exposed pipes show >12 FT of erosion		
Proposed Improvement:	Encase 50 LF exposed sanitary sewer line. Monitor existing sanitary sewer manhole and consider removal and relocation. Install 100 LF, 15-FT tall MSE wall with 5 FT stone toe protection through concrete-lined portion of the channel.		

Main Channel



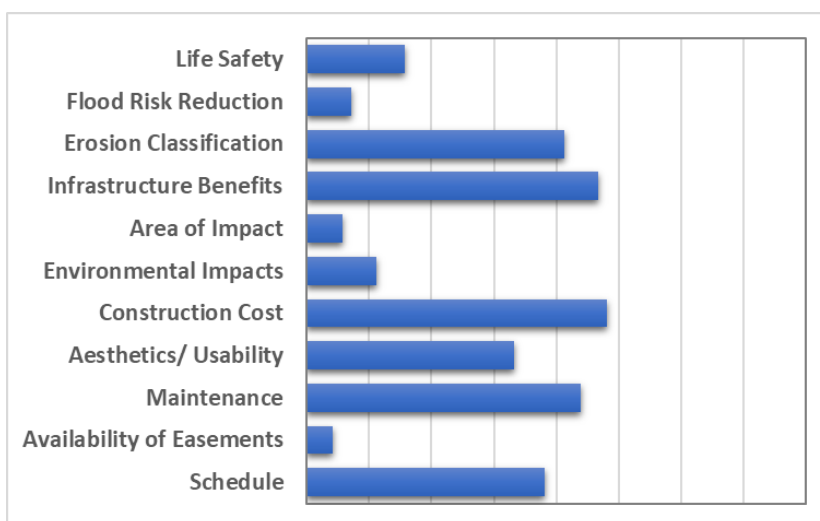
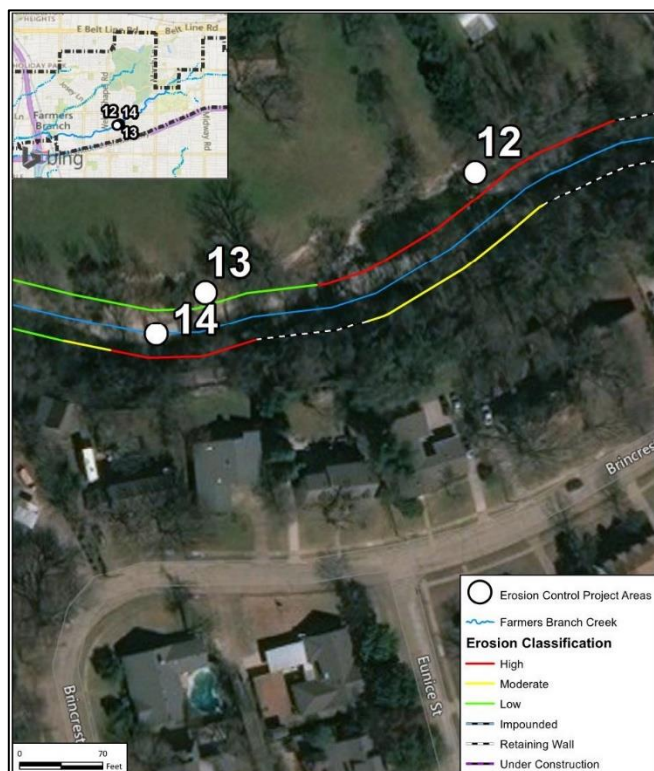
Right Bank



*Opinion of Probable Construction Cost
Preliminary – Intended for Review Only*

Reference Address:	3200 Block of Brincrest Dr		
Project ID: E-14	CIP Rank: 11 of 29	Score: 14.3	Estimated Cost: \$42,550
Problem Description:	Collapsed headwall and section of pipe, evidence of widening		
Proposed Improvement:	Install 24" CIP headwall. Install rock rip rap protection around outfall.		

Left Bank



*Opinion of Probable Construction Cost
Preliminary – Intended for Review Only*



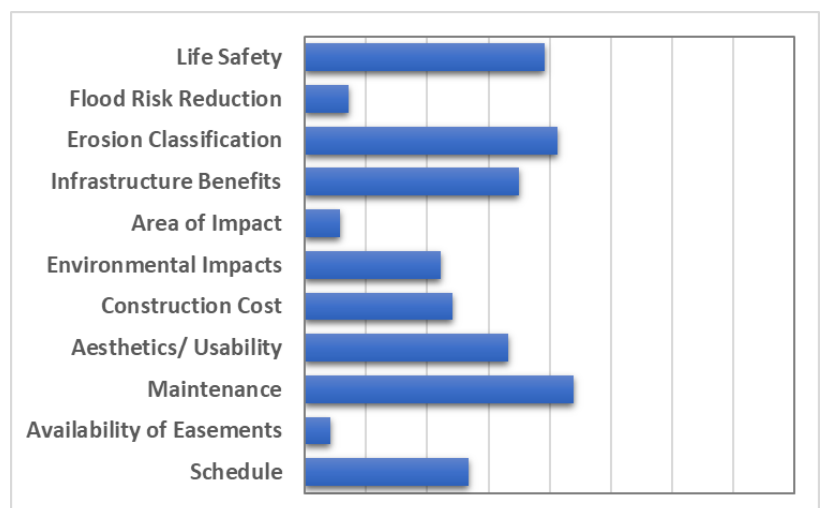
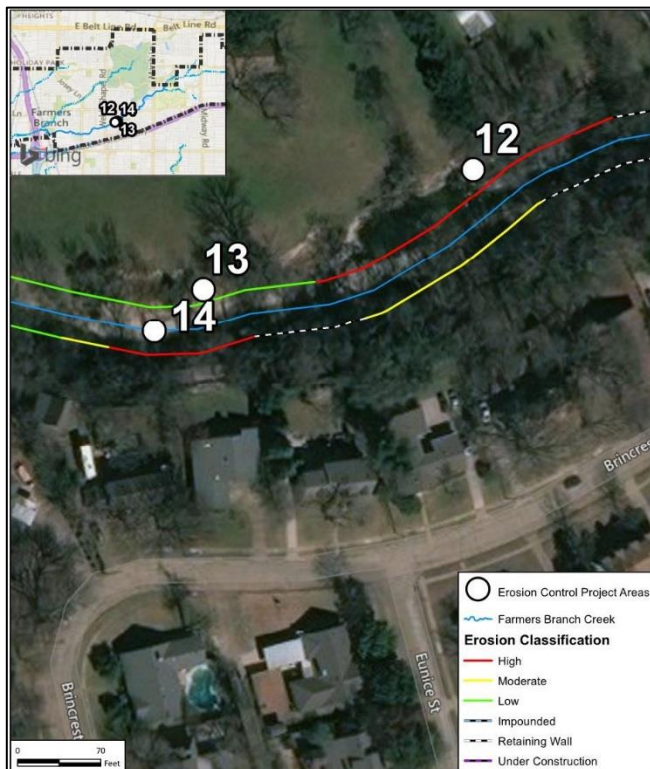
**FARMERS
BRANCH**

Farmers Branch Watershed Study
June 14, 2018



Reference Address:	Lost Vally Dr		
Project ID: E-13	CIP Rank: 13 of 29	Score: 13.7	Estimated Cost: \$163,980
Problem Description:	Deck at top of unprotected bank appears to be leaning toward stream		
Proposed Improvement:	Install 40 LF, 5-FT stone toe protection. Geotechnical evaluation may be necessary to assess shoring and stability of deck structure. Install 24" CIP headwall. Install rock rip rap protection around outfall.		

Left Bank



*Opinion of Probable Construction Cost
Preliminary – Intended for Review Only*