



FOX ISLAND FLOOD CONTROL PUBLIC INFORMATIONAL MEETING Project Establishment and Funding JANUARY 10, 2016

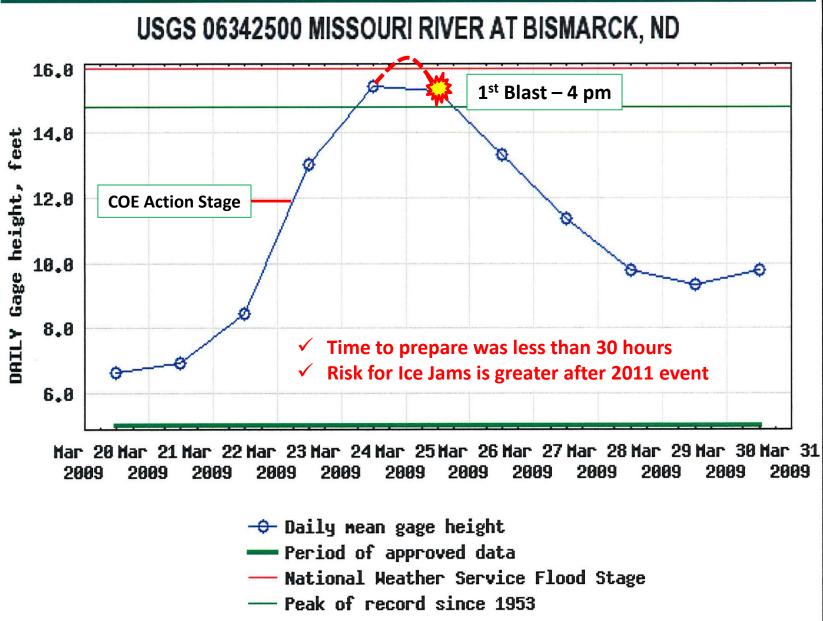
Bismarck



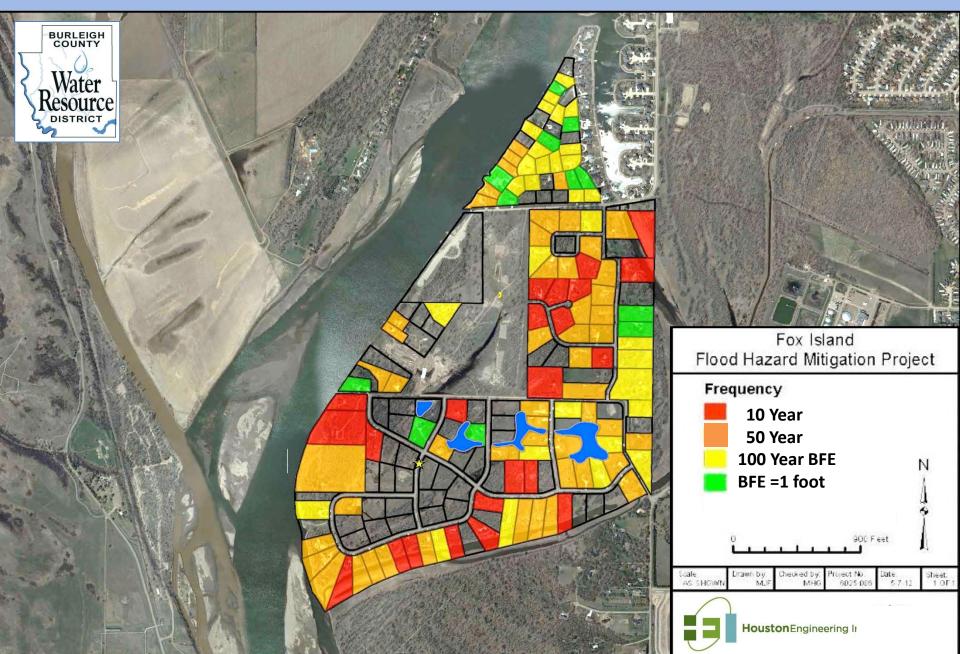
Fox Island 2009 Ice Jam Flood Event

Date: 25MAR09 TOT: 1341Z Location: South of Bismarck, ND Latitude: N 46° 45.82' / Longitude: W 100° 50.91' Object: Missouri River

≥USGS



Fox Island - Flood Risk Map



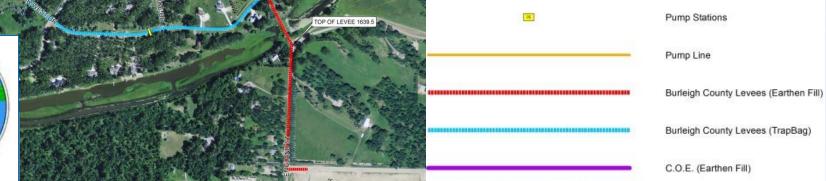


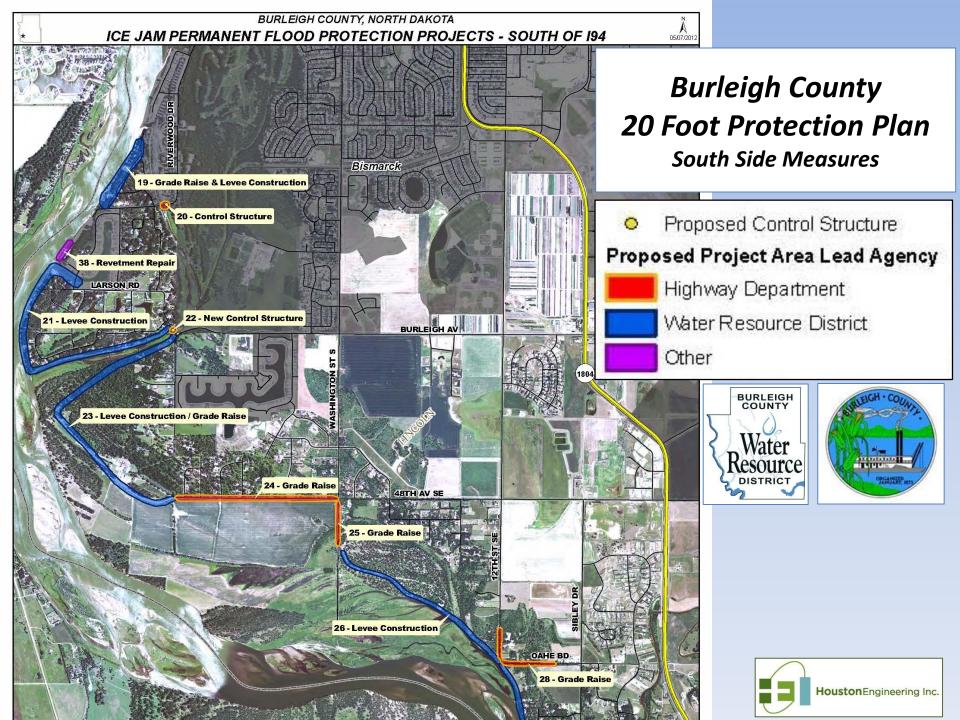
2011 Temporary **Flood Control Measures**

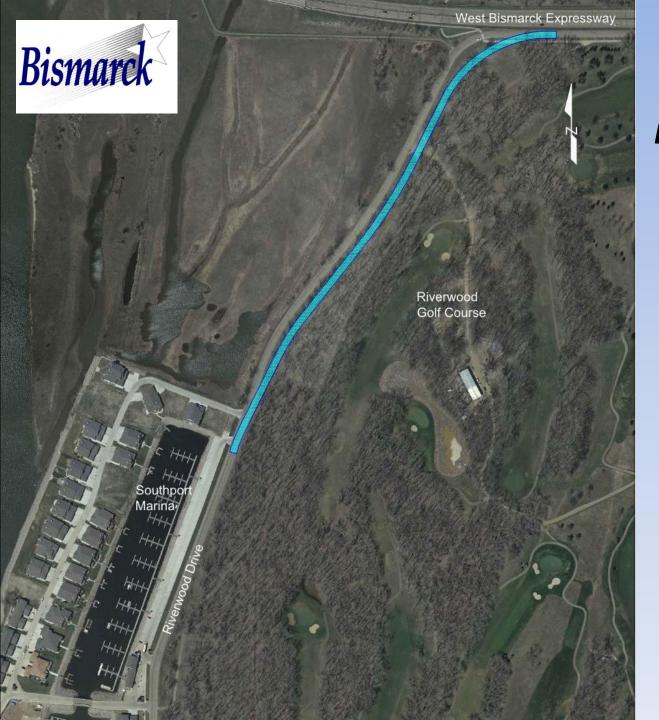
Installation and Removal Cost ~ \$1 Million

TrapBags and Earthen Levee Grade Raises on Access

Fox Island Protection Levees







Riverwood Drive Grade Raise Bismarck Expressway to Southport Loop



Mills Avenue Grade Raise City of Bismarck



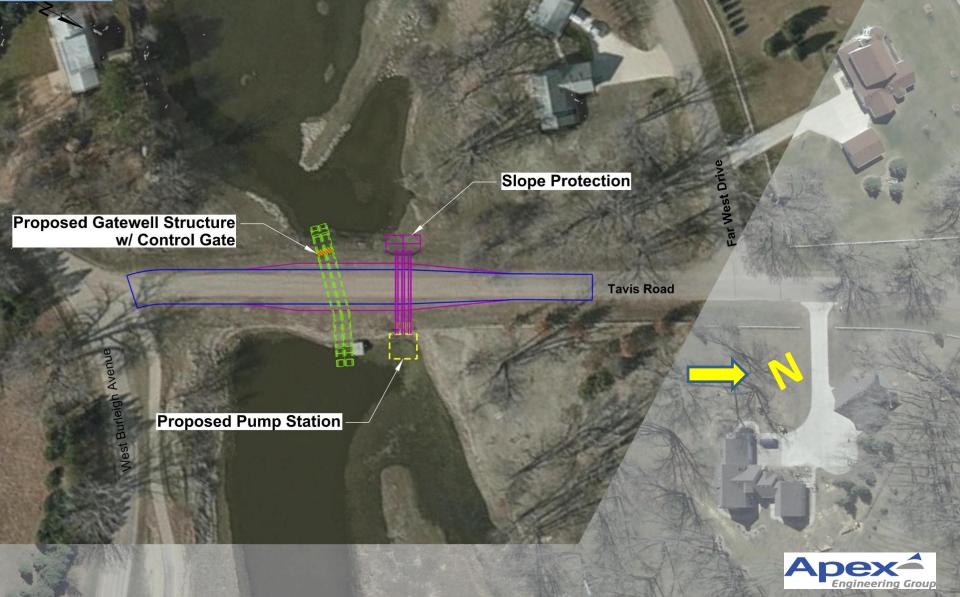
Southport Fox Island Fox Island Whispering Bay





Tavis Road Grade Raise and Control Structure





Unprotected Flood Limits Existing Conditions

19.5 foot stage



PY P



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Preferred Alternative Protection Area

Sign 1

1915 foot stage

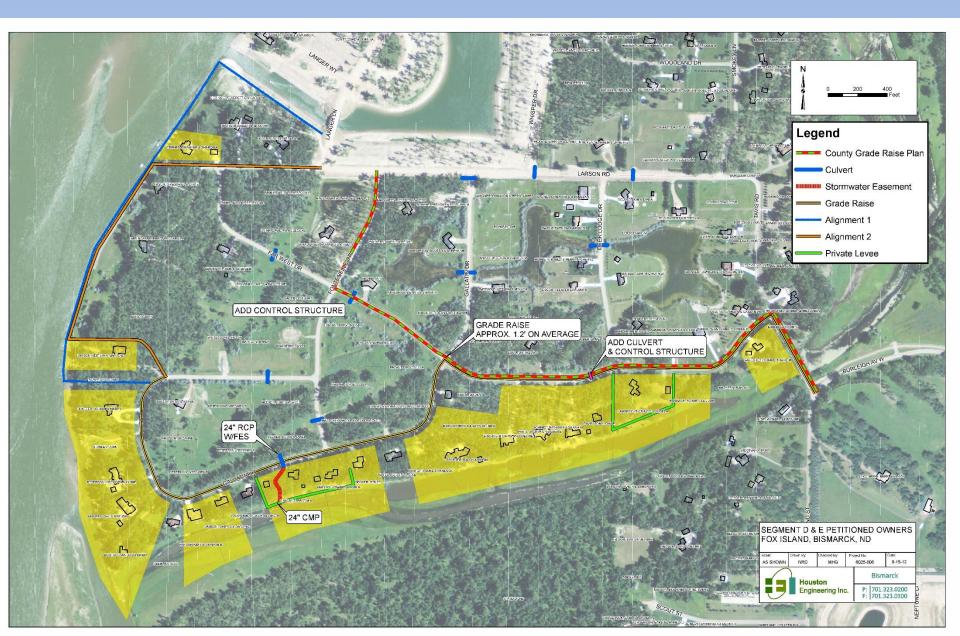


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FIGUR	E 5					
		ED FLO		5		
		NDITIO		-		
19.5 ft st	age at the	USGS Bi	smarck Gage			
cale: Drawn By:		Checked By:	Project No.	Date:		
AS SHOWN	MJF	MHG	6025-006	4/3/201		
1	7		Bis	Bismarck		

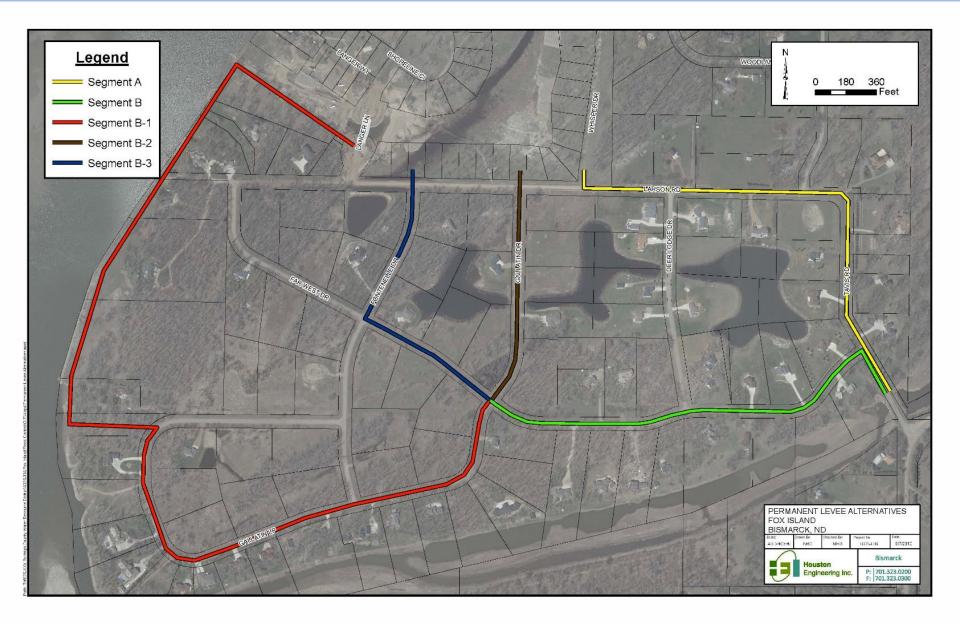
Houston

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Propertied Petitioned for Removal

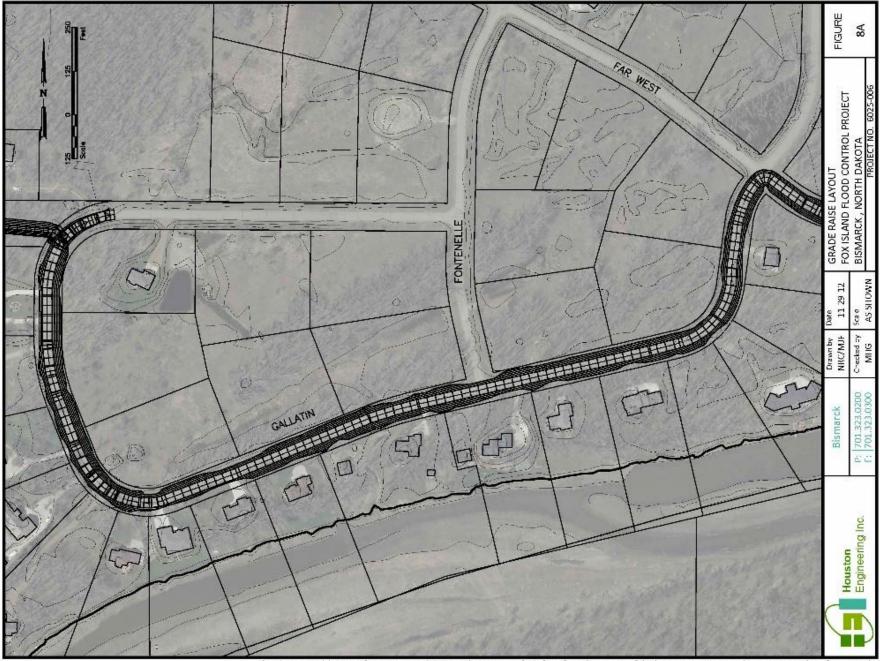


Alternatives Considered

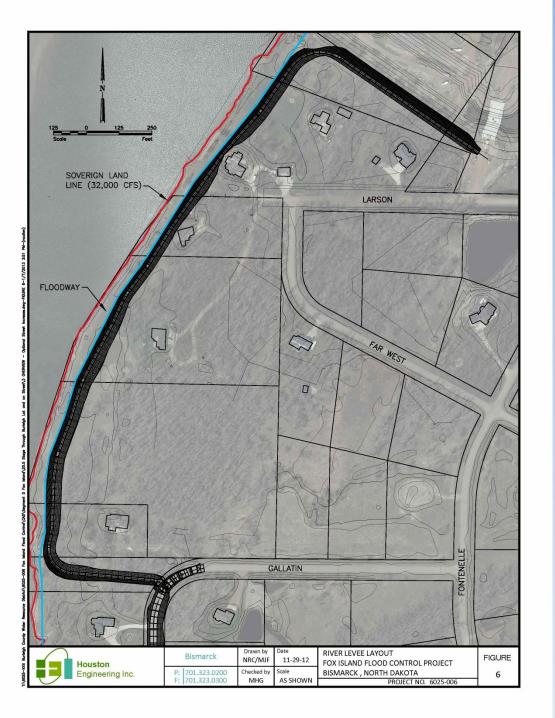




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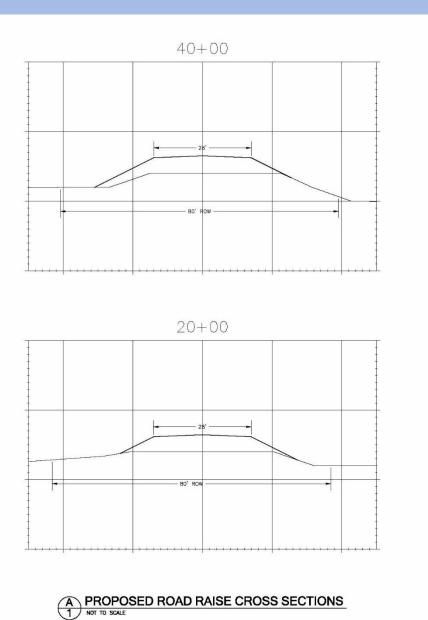


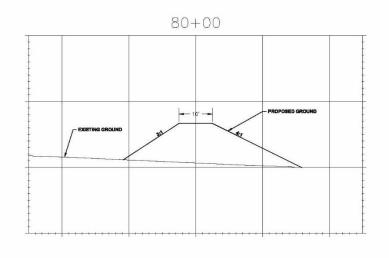
Missouri River Levee Section



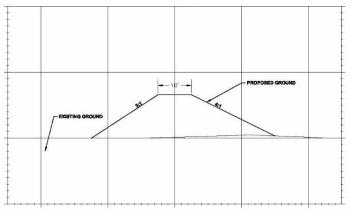
Internal Drainage Easements and Pump Removal System

Typical Sections





60+00



B PROPOSED LEVEE CROSS SECTIONS

Assessment District Formation Process

- ✓ Process Defined in ND Century Code Chapter 61-16.1
- ✓ Final Engineering Report & Assessment List (To be Updated)
- ✓ Existing Available Funding
 - ✓ ND Legislative Direct Allocaiton (\$2.8 Million)
 - ✓ Burleigh County / Lincoln TWP (\$920,456 in 2017)
- ✓ Assessment List to be filed with Burleigh County Auditor
- ✓ Notice of Hearing Publicly Advertised
- ✓ Notice Provided to Each Voting Landowner by Mail
- ✓ One Vote for Each Dollar of Assessment Ballots Provided
- ✓ Projects Passes if More than 50% of Votes Cast Approve
- ✓ Final Design (2016)
- ✓ Construction (2017)

Fox Island Flood Control - Projected Assessment Alternatives

Opinion of Probable Cost (Preliminary Engineering Report) Update 2013-2017		\$	3,014,537.00 25%		
Projected Legislative Cost			3,768,171.25		
Legislative Funds Allocated (SB2020)			2,800,000.00		
Township Funding To Meet Commitment to the City			920,456.00		
Provided via BCWRD Funds (Borrowe	ed line of Credit?)			All or % of Above	
Total Cost to Assess		\$	47,715.25		
				Percent of Lots	Alt #3
Fox Island Homeowners Association	{FIHA} Lots		68	59%	74%
Lots North of Larson Road			48	41%	26%
Total			116	100%	100%
Cost Per Lot Projection				Formula Checks	
	Alternative #1 - All Lots	Ś	411.34	\$ 47,715.25	
	Alternative #2 - FIHA Only		701.69	\$ 47,715.25	
Alte	rnative #3 - South Lots at 100%	Ś	518.64	\$ 35,267.79	
Alternative #3 - North Lots at 5		1.00	259.32	\$ 12,447.46	
				\$ 47,715.25	
Cost Projection at last FIHA Meeting	- Consensus Nov 2013				
	h/Twp./SWC Cost Share 68 Lots	\$	15,622.47		
	/Twp./SWC Cost Share 116 Lots		9,158.00		
	Alt #1 - Savings/lot	\$	15,211.13		
	Alt #2 - Savings/lot		14,920.78		
	Alt #3 - Savings/lot		15,103.83		
Burleigh County Cost to Fund North Lots - Alternative #1		\$	19,744,24	Alternative with the 0	County/Twp. Commitmen
Burleigh County Cost to Fund North Lots - Alternative #2			-		
Burleigh County Cost to Fund North Lots - Alternative #3			12,447.46		
Previous County/Township Commitment		\$	920,456.00	2013	
the second s		Sec. 1			



Questions?

Fox Island Flood Control Project

Information Sources

Burleigh County Water Resource District

Website: www.bcwrd.org

Power Point to be Posted