

Four Lakes Task Force

NRCS Erosion Projects Update

September 1, 2020



Four Lakes Task Force

Agenda

1. Introduction and Welcome (Dave Rothman)
2. NRCS program overview (Dave Rothman)
3. Example projects (Ron Hansen)
4. Cost sharing and access agreements (Terry Kram)
5. Question and Answer

Introductions

Key FLTF Team Members for Landowner Coordination and Engineering FLTF Volunteers

- ❑ Terry Kram (989)430-3433 tjkram65@outlook.com
- ❑ Pat Kastl, Will Schweitzer, Dan Myers, Mark Snyder, Dennis & Joanne Burghardt, John Kinkema
- ❑ Spicer Group: Andy Keller, Dave Vallier, Warren Miller

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NRCS Program Overview

Dave Rothman, September 1, 2020



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NRCS Emergency Watershed Protection

- NRCS = Natural Resources Conservation Service, a branch of the US Department of Agriculture
- EWP is the Emergency Watershed Protection program, intended to protect property from future erosion damage after a declared Major Disaster
 - Stopping disaster-related erosion that would otherwise threaten structures
 - Removing debris that could increase erosion following a disaster
 - Stabilization of damaged water control structures after a disaster
- NRCS grants money for eligible projects
 - Financial assistance (FA) covering up to 75% of eligible constructions costs
 - Technical assistance (TA) to cover engineering and administration costs
- NRCS requires a local sponsor
 - Four Lakes Task Force is the Sponsor for projects around Sanford, Wixom, Smallwood and Secord Lakes

EWP Process- Partnership with FLTF

- ▣ President declares a Major Disaster
- ▣ People report erosion damage due to the disaster
 - FLTF collecting reports
 - Erosion fairs, Contact via FLTF website, phone calls
- ▣ Spicer Group managing list of properties w/reported erosion damage
- ▣ NRCS visits sites, determines eligibility, inspects and surveys
 - NRCS or Spicer does preliminary engineering and cost estimate
 - Damage Survey Report (DSR) to NRCS MI State Office for approval
 - Forwarded to Washington, D.C. NRCS office for funding
- ▣ NRCS advises FLTF when money is available
 - Starts a 220-day clock to accept money and complete project

FLTF Erosion Repair Process

- When NRCS forwards reports to Lansing office
 - ▣ FLTF schedules a meeting with property owners to discuss:
 - Repair plans
 - Costs
 - Contracts
- When Washington, D.C. funds project
 - ▣ Detailed engineering starts
 - ▣ EGLE and Soil Erosion permits secured
 - ▣ Contractor selected
 - ▣ Work begins

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Example Projects

Ron Hansen, September 1, 2020

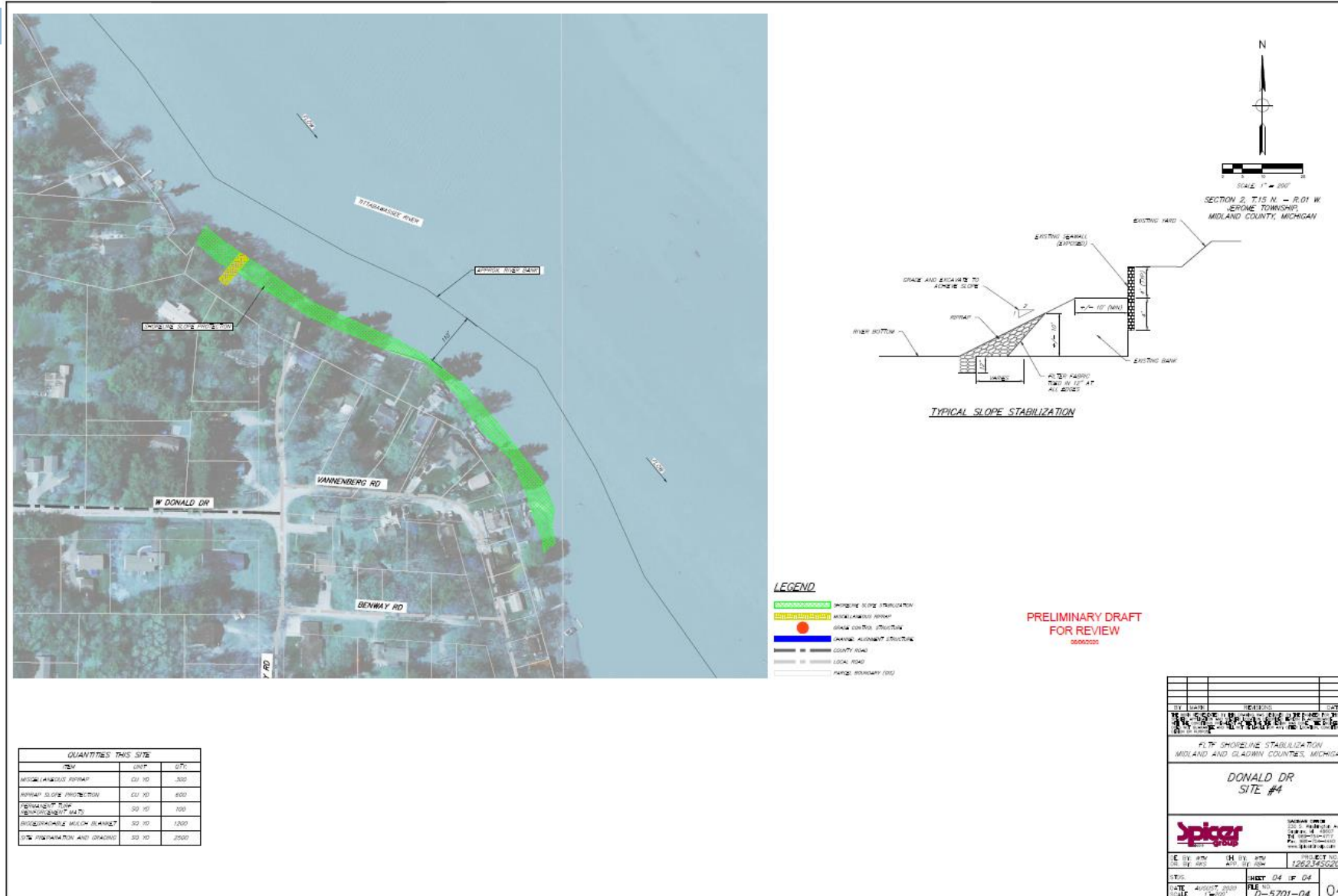


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Summary of Erosion Sites & Process

- 366 landowner calls logged to date by FLTF
 - ▣ 76 properties determined eligible
 - ▣ 194 properties still to be reviewed by NRCS
 - ▣ 96 properties have been determined ineligible for EWP program
- Engineering Process
 - ▣ NRCS Engineers review site to determine eligibility
 - ▣ Eligible sites have preliminary designs and cost estimates prepared

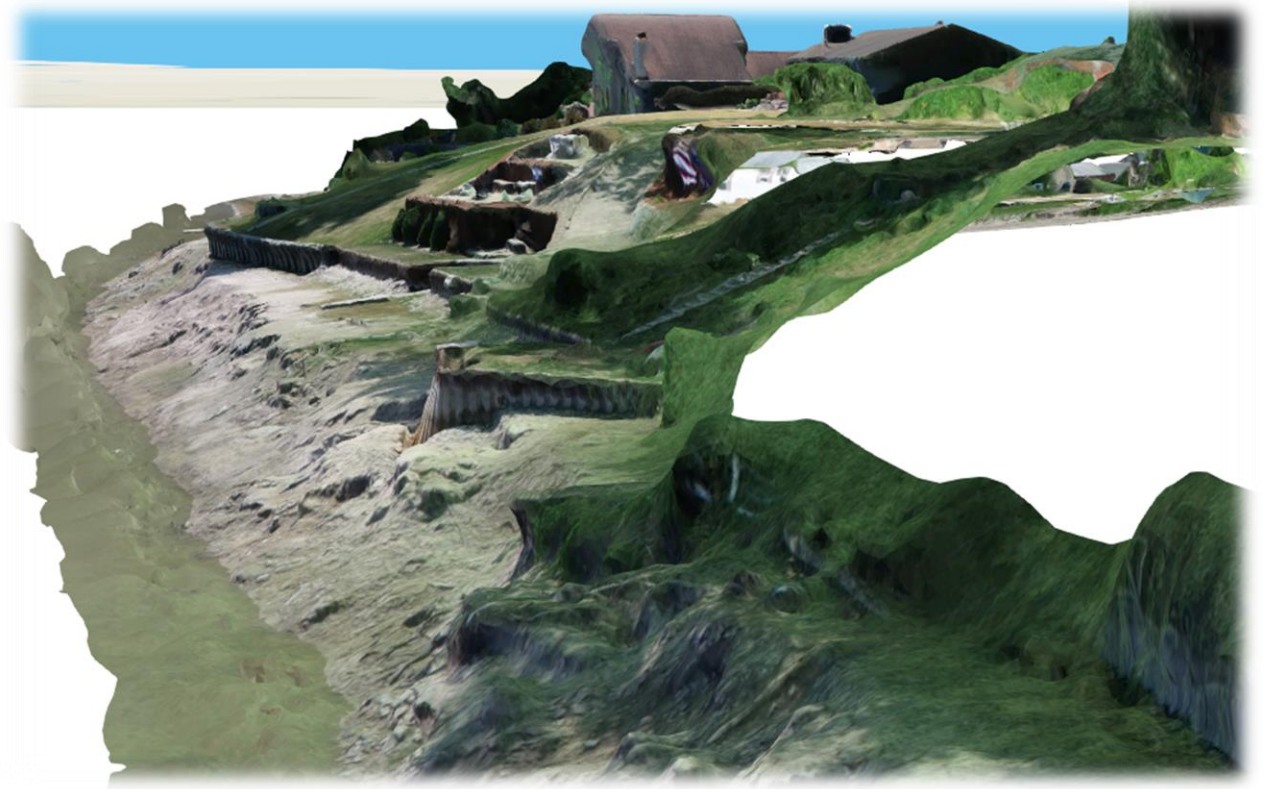
Site #4 – Donald Drive, Repair Plans



Site #4 – Donald Drive



Eroded bank near center of project area – Looking South



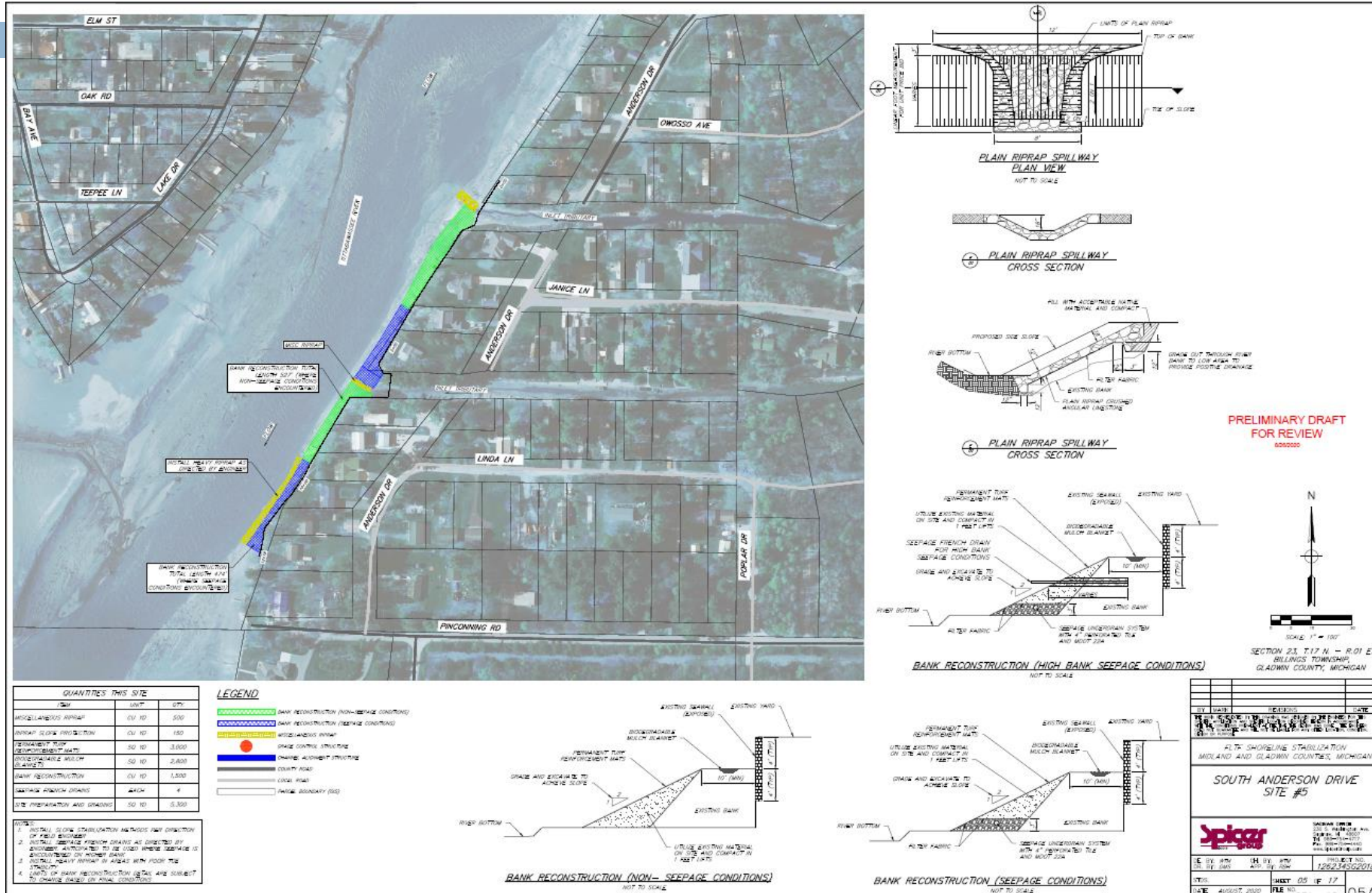
3D model of north end of project area – Looking South

Site #4 - Donald Drive, Cost estimate

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
1	600	Cu. Yd.	Riprap Slope Protection (Includes filter fabric and 2:1 ratio of MDOT heavy to plain)	\$210.00	\$126,000.00
2	2,500	Sq. Yd.	Site Preparation and Grading	\$5.00	\$12,500.00
3	100	Sq. Yd.	Permanent Turf Reinforcement Mat	\$6.00	\$600.00
4	1,200	Sq. Yd.	Biodegradable Mulch Blanket	\$3.00	\$3,600.00
5	300	Cu. Yd.	Miscellaneous Riprap Protection	\$50.00	\$15,000.00
6	2	Each	Seepage French Drains (Includes filter fabric, 22A Stone & 4" perforated tile)	\$6,000.00	\$12,000.00
7	1	Lump Sum	Seeding and Fertilizing	Lump Sum	\$10,000.00
8	1	Lump Sum	Site Access Preparation and Restoration	Lump Sum	\$30,000.00
Total Estimated Construction Costs-----					\$209,700.00

*Material and Labor included in unit price bid.

Site #5 - Anderson Drive South, Repair Plan



Site #5 – Anderson Drive South



Eroded bank in center of project area – Looking East



Eroded bank with seepage at south end of project area – Looking South

Site #5 - Anderson Drive South, Cost Estimate

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
1	150	Cu. Yd.	Riprap Slope Protection (Includes filter fabric and 2:1 ratio of MDOT heavy to plain)	\$210.00	\$31,500.00
2	1,500	Cu. Yd.	Bank Reconstruction (Utilizing existing on-site material, where possible)	\$30.00	\$45,000.00
3	475	Lin. Ft.	Seepage Underdrain (Includes filter fabric, 4" perforated tile, and approx. 125 cyd 22A)	\$100.00	\$47,500.00
4	5,300	Sq. Yd.	Site Preparation and Grading	\$5.00	\$26,500.00
5	3,000	Sq. Yd.	Permanent Turf Reinforcement Mat	\$6.00	\$18,000.00
6	2,800	Sq. Yd.	Biodegradable Mulch Blanket	\$3.00	\$8,400.00
7	500	Cu. Yd.	Miscellaneous Riprap Protection	\$50.00	\$25,000.00
8	4	Each	Seepage French Drains (Includes filter fabric, 22A Stone & 4" perforated tile)	\$6,000.00	\$24,000.00
9	1	Lump Sum	Seeding and Fertilizing	Lump Sum	\$15,000.00
10	1	Lump Sum	Site Access Preparation and Restoration	Lump Sum	\$40,000.00
Total Estimated Construction Costs-----					\$280,900.00

*Material and Labor included in unit price/lump sum bids.

Summary of Erosion Sites – Sanford Lake

□ Sites submitted by NRCS

- Donald Drive/Bailey
- Weeping Willow
- Sanford Dam Debris Removal
- Peterson Drive Culvert Outlets

□ Sites to be submitted by NRCS

- Thomas Shores
- Downstream Curtis Road
- Wilson Drive
- W. Center Drive

Summary of Erosion Sites – Wixom Lake

□ Sites submitted by NRCS

- Anderson Drive, North
- Anderson Drive, South
- Lakeshore Drive Culvert
- Grace Court
- Island Drive/Kaypat
- Hook's Culvert Outlet
- Birchwood Estate Culvert

□ Sites to be submitted by NRCS

- Dundas Road
- Oak Drive
- Downstream Meridian & Saiko
- Arapahoe Trail

- Online map will be available to location of sites and status of project

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Access and Cost Sharing Agreements

Terry Kram, September 1, 2020



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FLTF Role

- Coordinate with NRCS to get federal funding
- Sponsor for NRCS erosion, debris and dam stabilization projects
- Communicate with the property owners
- Secure engineering, administration and construction resources
- Coordinate payments from NRCS & owners to contractors
- FLTF does not have the money to pay for erosion repairs
 - ▣ That comes from NRCS and the property owners
 - ▣ FLTF is actively seeking other funds to reduce cost to property owners – no additional funding secured to date

Access Agreement

- ▣ The Access Agreement gives FLTF and its contractors permission to enter private property to do work
- ▣ Construction cost estimates include restoration of access sites
- ▣ If your property has special concerns, get it written into the Agreement
 - Buried drain lines
 - Trees that can/cannot be trimmed
 - Septic tanks
- ▣ FLTF or contractors will contact Miss Dig
- ▣ **ACCESS TO SITES IS KEY – LOOKING FOR RESIDENTS TO WORK WITH US ON ACCESS – WILL HELP REDUCE COSTS**

Cost Sharing Agreement

- **Boyce is responsible for all the cost of erosion damage, but Boyce is in bankruptcy.**
- FLTF is working with NRCS to help erosion victims
 - ▣ This is the contract between FLTF and Property Owner for erosion repairs
 - ▣ FLTF is responsible for getting the work done
 - Engineering, getting permits, administering the program
 - Selecting contractors and overseeing the quality of the work
 - ▣ Property owner is responsible for project costs not paid by NRCS
 - FLTF will provide documentation of those costs
- NRCS doesn't pay for everything
 - ▣ Construction costs- NRCS pays actual costs up to 75% of construction cost estimate
 - ▣ Engineering, administration, permitting- NRCS gives an allowance for eligible items
- For planning purposes, budget 35% of estimated project cost as property owner's share

Do You Need Financial Assistance?

- If the property is your primary home
 - ▣ You can apply for an SBA loan
 - Deadline is Sept. 8, 2020, but don't wait for the last day!
 - Interest rates 1.25%-2.5%, terms up to 30 years
 - No cost to apply for an SBA loan
 - You apply to qualify, but you are not required to take the loan
- If the property is not your primary home
 - ▣ Contact a bank or credit union for a loan

Applying for an SBA Loan

- ❑ SBA Loans 1 ¼ - 2 ½ % interest rate
 - ❑ Call SBA (571) 422-8013, (571) 422-6016 or (571) 422-0331
 - Phones will be answered Monday thru Friday, except Holidays
 - ❑ An SBA representative will walk you through the process
 - ❑ There is no cost to apply

APPLY BEFORE SEPTEMBER 8!!

Funding Process

- A FLTF volunteer will visit you and explain the process for raising and managing the cost matching money
 - ▣ Individual property owner's share of cost and total for project
 - ▣ FLTF manages funds, each project's funds will be tracked separately
 - ▣ When sufficient owner funds are demonstrated, work can begin
- FLTF will receive invoices, NRCS will pay up to 75% of the eligible construction costs, owners pay the rest.
- If project cost comes in under the estimate, owners will receive a refund of unspent owner money.

QUESTIONS?

Key Contact information for erosion topics

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