

17	Shallow Shore Drive Drainage Improvements	18-007	44.4	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN
RIVER & FLOOD											
18	Marietta Acquisition -- Acquire properties in repetitive flood loss area	07-002	79.6	RW \$ 802,000 \$ 117,000 \$ 166,000 \$ 258,000 \$ 28,000	FCZD FEMA Fed/State grant ESRP grant FEMA Fed/State grant ESRP grant	RW \$ 96,000 \$ 20,000 \$ 135,000	FCZD FEMA Fed/State grant	RW \$ 100,000 \$ 25,000	RW \$ 100,000 \$ 25,000	RW \$ 100,000 \$ 25,000	RW \$ 180,000
19	Truck Road Emergency Erosion Protection -- Install passive riprap to protect road; mitigation n needed in 2020	18-002	59.4	PE \$ 16,000 \$ 455,000	FCZD/Roads (50/50) FCZD/Roads (50/50)	PE \$ 50,000	FCZD/Roads (50/50)	PE	PE	PE	PE
20	Abbott Levee Erosion Protection -- Construct interim measures for erosion protection for levee and adjacent road	18-005	66.5	PE \$ 75,000	FCZD/Roads (50/50)	PE \$ 460,000	FCZD/Roads (50/50)	CN	CN	CN	CN
21	Red River Levee Stabilization -- Restore levee prism and bank protection (SWIF project)	16-004	52.9	PE \$ 28,000 \$ 200,000	FCZD FCZD/Lummi**	PE \$ 30,000	FCZD	CN	CN	CN	CN
22	Twin View Levee Improvements -- Widens levee crest and flatten backslope at two sites (SWIF project)	16-002	50.3	PE \$ 50,000	FCZD	PE \$ 75,000	FCZD	PE \$ 15,000 \$ 250,000	PE \$ 15,000 \$ 250,000	PE \$ 15,000 \$ 250,000	PE \$ 15,000 \$ 250,000
23	Lynden Levee Improvement -- Combine drainages and replace two culverts through levee with one larger culvert (SWIF project) and repair 2 damaged levee sites (USACE)	16-003	64.5	PE \$ 1,000,000	CN	PE \$ 1,000,000	CN	CN	CN	CN	CN
24	Bertrand Creek Levee Stabilization -- Restore right and left levee prisms and install bank protection (SWIF project)	16-005	54.4	PE \$ 600,000	FCZD	PE \$ 77,000	FCZD	PE \$ 35,000	PE \$ 35,000	PE \$ 35,000	PE \$ 125,000
25	Jones Creek Debris Flow Protection -- Construct deflection berm and address local access	07-105	70.6	PE \$ 122,000 \$ 390,000 \$ 26,000 \$ 13,000	FCZD FEMA/State grant FCZD FEMA/State grant	PE \$ 33,000 \$ 225,000 \$ 80,000	Roads FCZD DOE grant	PE \$ 15,000 \$ 300,000 \$ 30,000	Roads FCZD Roads	PE \$ 50,000 \$ 20,000 \$ 3,000,000	PE \$ 50,000 \$ 20,000 \$ 775,000
26	Abbott Levee Upstream Tie-In -- Extend and realign upstream end of levee (SWIF project)	16-007	70.4	PE \$ 140,000	FCZD/Roads (50/50)	PE \$ 200,000	FCZD/Roads (50/50)	PE \$ 75,000	FCZD/Roads PE \$ 75,000	PE \$ 150,000	PE \$ 150,000
27	Neeval Levee Bank Stabilization -- Stabilize oversteepened section of levee (SWIF project)	16-008	49.3	PE \$ 140,000	FCZD/Roads (50/50)	PE \$ 200,000	FCZD/Roads (50/50)	PE \$ 75,000	FCZD/Roads PE \$ 75,000	PE \$ 150,000	PE \$ 150,000
28	Devries Levee Improvements -- Widens and establish full crest width and backslope levee (SWIF project)	19-001	49.3	PE \$ 140,000	FCZD/Roads (50/50)	PE \$ 200,000	FCZD/Roads (50/50)	PE \$ 75,000	FCZD/Roads PE \$ 75,000	PE \$ 150,000	PE \$ 150,000
29	Upper Hampton Levee Improvements -- Widens levee crest and flatten backslope at two sites and address seepage at a third site (SWIF project)	16-006	70.4	PE \$ 140,000	FCZD/Roads (50/50)	PE \$ 200,000	FCZD/Roads (50/50)	PE \$ 75,000	FCZD/Roads PE \$ 75,000	PE \$ 150,000	PE \$ 150,000
30	Ferndale Levee Improvement -- Reconstruct and realign Ferndale and Treatment Plant Levees to improve level of protection and address deficiencies	07-104	68.9	PE \$ 310,000	FCZD	PE \$ 240,000	DOE grant	PE \$ 200,000	PE \$ 200,000	PE \$ 200,000	PE \$ 200,000
31	Glacier-Gallup Alluvial Fan Restoration - Remove all or part of Glacier Creek levee and construct setback levee along Gallup Creek	18-006	88.9	PE \$ 310,000	FCZD	PE \$ 200,000	FCZD	PE \$ 200,000	PE \$ 200,000	PE \$ 200,000	PE \$ 200,000
32	Floodplain Acquisition -- Acquire key properties for future levee reconfiguration to reduce risk and improve habitat	07-002	79.6	PE \$ 100,000	FCZD	PE \$ 800,000	DOE grant	PE \$ 25,000	PE \$ 25,000	PE \$ 25,000	PE \$ 25,000
33	Emergency/New Projects -- Typically repair projects that result from new damage, as needed	08-003	Varies	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN	RW CN

NOTE: Numbers in *italics* are placeholders for projects still being conceived.

*Previous expenditures includes work contracted in 2019 that will continually appropriate into 2020.

**Construction in 2020 under 2019 continuing appropriation

Note 1: Estimated total project cost includes work done by USACE - funded directly by USACE