

EXECUTIVE SUMMARY

The Town of Friday Harbor prepared a Stormwater Management Plan in 1997. The Plan discussed the current and future stormwater facilities for the Town of Friday Harbor in San Juan County, Washington. Specific existing problems and concerns and future needs were addressed regarding the quantity and quality of runoff from storm events within the Town. Using the software modeling program HYDRA, the Town's existing stormwater facilities were modeled and evaluated for capacity related problems. Methods of financing system improvements and a schedule for completing these projects were included in the Plan.

This update to the 1997 Plan includes a revised discussion of the current regulations affecting stormwater management, discusses the stormwater facilities necessary to serve the annexed area on the south side of the Town, and updates the project costs and financial analysis. The 1997 computer model was updated in 2001.

During the preparation of the 1997 Plan, the Town had identified two areas, which required expenditures by the Town to correct existing flooding problems. A new stormwater conveyance system was identified as being required to convey water from Malcolm Street to "A" Street, then on to Spring Street and into Friday Harbor in order to protect the Malcolm Street area from flooding and to convey the 25-year storm for future development conditions. This project was completed in 1999.

The other problem identified by Town staff was the area northeast of the high school, where localized flooding occurred. The Plan recommended installation of a 24-inch pipe along Guard Street. This facility would allow stormwater to be conveyed around this area and eventually into Friday Harbor. This project has also been completed. The 1997 Plan included replacement of the 8-inch drain pipes along Reed Street in the Capital Improvement Plans provided in the original plan. This project was completed in 1998.

Other projects, which are included in the Capital Improvement Plan, are shown in the table below. This table is included in Chapter 6, along with an explanation of each project and the associated cost estimates. These projects can be funded in several different ways, which are described in Chapter 7. The Plan recommends that the projects be funded by low-interest loans. The financial analysis in Chapter 7 assumes that sufficient revenue will be raised to support operation and maintenance of stormwater facilities and the recommended capital improvements. A preliminary rate analysis indicates that a monthly service charge increase of \$1.00 (one dollar) per ERU (equivalent residential unit) in 2006 and \$0.75 (seventy-five cents) per ERU in 2007 would be required. In addition, an annual rate adjustment based on the Seattle Consumer Price Index (CPI) would be required from 2008 forward. The existing method of assessing connection charges would remain in effect. The projected income from these fees assumes a growth rate of 1.4 percent in the number of ERUs.

The Town adopted a stormwater technical manual on November 20, 1997. The manual contains the requirements for stormwater management, which will be imposed on development. As a matter of policy, the Town requires all new development to provide runoff control for the 10-year, 24-hour and 100-year, 24-hour stormwater events and, in addition, for the 2-year, 24-hour event for those projects tributary to conveyance systems which do not have sufficient capacity to convey the peak 2-year, 24-hour storm event runoff.

Recommended Stormwater Improvement Projects Estimated Project Costs

Project Number	Project Description	Estimated Project Costs*
1	Malcolm Street to "A" Street/East Street to Outfall	Completed
2	Guard Street to Tucker Avenue	Completed
3	Larson Street	\$ 472,000
4	680/690 Larson Street	\$ 165,000
5	Marble Street and Tucker Avenue	\$ 59,000
6	Tucker Avenue	\$ 223,000
7	Friday Avenue to Outfall	\$ 121,000
8	Reed Street	Completed
9	Linder/Nelson/Franck/"C"/Nichols Streets	\$ 397,000
10	Spring Street-Argyle Avenue to First Avenue	\$ 321,000
11	West Street Diversion from Second Street to First Street	\$ 73,000
12	Caines Street Diversion from Spring Street	\$ 70,000
13	Web Street Diversion from Argyle Avenue to "A" Street	\$ 191,000
14	Marguerite Place and Guard Street	\$ 232,000
TOTAL ESTIMATED PROJECT COST		\$2,324,000

* April 2005 ENR Index Cost, DDI – 8194.11.