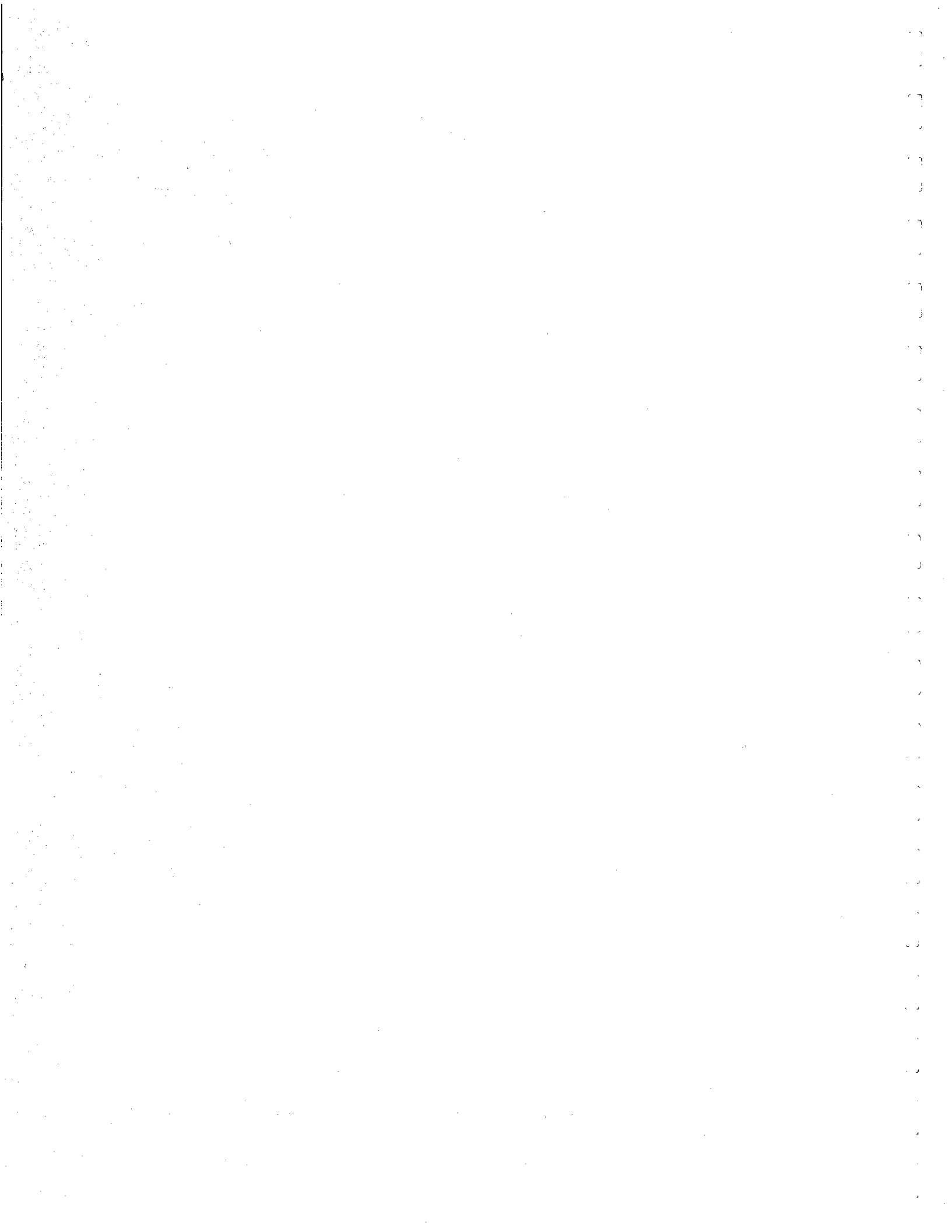


SECTION 7
SURFACE WATER MANAGEMENT PLAN
RECOMMENDED PRIORITY ACTIONS



SECTION 7

SURFACE WATER MANAGEMENT PLAN RECOMMENDED PRIORITY ACTIONS

It is recommended that the priority actions listed below begin the implementation of solutions to the surface water problems identified in Section 6.2. The recommended priority actions below should be added to the City's Draft 2001-2006 CIP. The recommended priority actions were selected based on their perceived public health and safety benefit, property protection, fisheries benefit and other criteria as discussed in Section 6.1.2 including right-of-way requirements, land availability (where known), disruption to the community, effectiveness, feasibility, cost effectiveness, implementation and permitting issues and concerns, environmental impact and protection, maintenance requirements, and overall cost. For a discussion on each of the drainage problems below see Section 6.2 and see Figure 6.1 through 6.12 as appropriate.

7.1 Recommended Priority Actions

Hidden Cove Rd./Coho Creek Culvert Replacement

This recommended priority project addresses drainage problem PM-002 at an estimated total project cost of \$259,000.

Miller Rd. NE/Manzanita Creek Culvert Replacement

This recommended priority project addresses drainage problem MB-007 at an estimated total project cost of \$463,000.

Peterson Hill Rd. NE/Manzanita Creek Culvert Replacement

This recommended priority project addresses drainage problem MB-008 at an estimated total project cost of \$207,000.

NE Battle Point Rd./Issei Creek Culvert Replacement

This recommended priority project addresses drainage problem FB-004 at an estimated total project cost of \$105,000.

NE Grand Ave./Broomgerrie Rd. NE Landslide

The City should review consultant recommendations for addressing drainage problem EH-019 when complete. Depending on the results of the independent consultant studies, the problem should be addressed via the Drainage Upgrades Program as appropriate.

Yeomalt Area Outfalls

As part of the Drainage Upgrades Program, the City should hire a consultant or perhaps use in-house engineering staff to evaluate and design the proposed solution to drainage problem EH-020.

Hirakawa Creek Fisheries Obstruction

The City, WSDFW and the dam owner should coordinate and negotiate water rights needs and fish passage needs at location EH-023. Alternatives would include the installation of a fish ladder and/or removing/retrofitting the dam to provide fish passage. Once the parties have agreed on a proposed solution, the City should then hire a consultant or perhaps use in-house engineering staff to design the chosen solution to the problem.

Eagle Harbor Rd./Head-of-the-Bay Creek Fisheries Obstruction

The fish blockage from the historic runoff diversion structure at location EH-024 should be resolved in conjunction with *EH-008 - Bucklin Hill Rd. NE/Head-of-the-Bay Creek Culvert Replacement*.

Bucklin Hill Rd. NE/Head-of-the-Bay Creek Culvert Replacement

Multiple City departments will need to weigh the City's runoff diversion facility water needs and rights against fish passage restoration needs at location EH-008. Fish friendly alternatives would include daylighting much of the existing culvert stretch along Bucklin Hill Road and removing/retrofitting the runoff diversion structure to provide fish passage. Other alternatives range from restoring the existing culvert or daylighting much of the existing culvert stretch. Once City staff have agreed on a proposed solution, the City should then hire a consultant or perhaps use in-house engineering staff to design the chosen solution to the problem.

Crystal Springs Dr. NE Landslides

As part of the Drainage Upgrades Program, the City should hire a consultant or perhaps use in-house engineering staff to evaluate and propose a solution to the problem at location GL-009.

Lynwood Center Rd. NE/Schel-Chelb Creek Restoration

As part of the Drainage Upgrades Program, the City should hire a consultant or perhaps use in-house engineering staff to evaluate and propose a solution to the problem at location PB-011.

NE Blakely Ave./Upper Mac's Dam Stream Bed Enhancement

Installing rock and soil fill material at outfall would provide fish passage under this important road located at BH-010.

NE Blakely Ave. Culvert Replacement

Replacing the culvert and installing rock and soil fill material at the outfall would provide fish passage while providing adequate flow capacity for the future. As part of the Drainage Upgrades Program, the City could hire a consultant or perhaps use in-house engineering staff to evaluate and propose a solution to the problem located at BH-012.

Fort Ward Plat Drainage

The City should review the consultant recommendations for addressing drainage problem SB-004 when complete. Depending on the results of the independent consultant study, the problem should be addressed via the Drainage Upgrades Program as appropriate.

