



NOTE:
 1. COST SHAREABLE COMPONENTS ARE SHOWN
 IN BLACK COLOR WITH CONSTRUCTION
 COST ESTIMATES.

Figure 10.2.4

**2005 WATER SYSTEM MASTER PLAN
 GRANDE PRAIRIE CLAIRMONT AREA
 SERVICING STRATEGY**



OPTION 2B
 ULTIMATE GROWTH SCENARIO WATER SYSTEM

SCALE: 1:30,000

- Expand the existing Zone 3 reservoir with an additional capacity of 3.5 ML. The actual schedule for the expansion should be assessed in the future master plan updated (cost shareable component).
- Expand the West Clairmont reservoir with an additional capacity of 4.5 ML. The actual schedule for the expansion should be assessed in the future master plan update (cost shareable component).

10.2.5 Ultimate Growth Scenario

- Install 4,894 m of 250mm diameter distribution watermain
- Install 807 m of 300mm diameter distribution watermain
- Install 4,555 m of 400 mm diameter transmission main from the Zone 3 reservoir to the tee intersection (cost shareable component).

10.3 Summary of Staged Implementation Costs

The estimated implementation costs for the cost sharing components for the four growth scenarios are shown in Table 10.3.1. The details are shown in Appendix A.

Table 10.3.1: Estimated Implementation Costs for Cost Sharing Components for Various Growth Scenarios

Components	2006 (\$) M	2025 Year (\$) M	Ultimate (\$) M	Total (\$) M
Transmission Line	\$4.64	\$0	\$14.37	\$19.01
Reservoir and Pumphouse	\$11.95	\$11.23	\$0	\$23.18
Total	\$16.59	\$11.23	\$14.37	\$42.19

Note:

1. Transmission lines are watermains that convey water from the regional transmission line to the new reservoir and between reservoirs.
2. In order to supply water to the entire study area, the water treatment plant upgrade and addition of a new dedicated regional water transmission line are inevitable. The implementation of the water treatment upgrade and a new dedicated regional transmission line from the water treatment plant to the Zone 3 reservoir are beyond the scope of the master plan. It should be included in the cost sharing components once it is available.