



2. Technical Approach

2.1 Introduction

The South Dock reconstruction area is shown on Figure 1. The proposed designs for reconstruction of the existing dock and the dock extension are described briefly in this introduction, and more fully in Section 2.4. The proposed designs are conceptual and will be further refined during the design phase of the project. Conceptual plans are included in Appendix A.



Figure 1 - Existing South (foreground) and North (background) Dock

South Dock Reconstruction

The selected design option for the South Dock reconstruction consists of a 5 ft. diameter **pipe pile** in front of each existing closed cell sheet pile Y, at approximately 30 ft. centers. An **arched, flat web sheet pile** wall system, driven in front of the existing waterside sheet piles, is connected to the pipe piles to form the new dock face. Rock or hydraulic fill will be placed to fill the space between the existing and new sheet pile walls.