

1 Introduction

In November 2002, the voters of Hillsborough passed Measure B, a \$66.8 million school facility bond measure to modernize and expand the four schools of the Hillsborough City School District (HCSD or District): William H. Crocker Middle School (Crocker), North Hillsborough Elementary School (North), South Hillsborough Elementary School (South), and West Hillsborough Elementary School (West). Crocker School serves students in Grades 6-8 and the three elementary schools house K-5 students. In addition to Measure B facility improvement funds, the District has secured \$2.7 million of State modernization funding for improvements at Crocker, North and South. West School was modernized in the early 1990's.

The purpose of this preliminary engineering study is to provide utility information in support of the bond program project development process. HCSD envisions a multi-year, multi-phase building program. Proper planning and implementation of this complex improvement program is needed to ensure that all facilities meet or exceed community expectations and allow for maximizing student success.

The location and vicinity of HCSD school sites are presented in Figure 1 and are described below.

1.1 School Sites

1.1.1 Crocker School

Crocker Middle School is located on Ralston Avenue west of Eucalyptus Avenue and adjoins the North School site (see Figure 1). The existing Crocker site includes four permanent buildings and five portable buildings, totaling approximately 56,200 square feet. The Crocker campus is on a sloped site graded from the south-west to the north-east. The area of the campus is approximately 9.1 acres. The existing Crocker campus layout is presented in Figure A1.

1.1.2 North School

North School is located on Eucalyptus Avenue at Ralston Avenue and adjoins the Crocker Middle School site (see Figure 1). The existing North site consists of nine permanent buildings, including the Bridge School, and one portable office building totaling approximately 33,950 square feet. The North campus is on a sloped site graded from the south-west to the north-east. The area of the campus is approximately 11.5 acres. The layout of the existing North campus is presented in Figure B1.

1.1.3 South School

South School is located at the corner of El Cerrito Avenue and Stonehedge Road (see Figure 1), across El Cerrito Avenue from the District office and playfields. The existing South site includes three permanent buildings, and three portable buildings, totaling approximately 31,000 square feet. The South campus is on a mildly sloped

site graded from the north to south. The area of the campus is approximately 4.6 acres. The existing South campus layout is presented in Figure C1.

1.1.4 West School

West School is located between Barbara Way and Alberta Way near Highway 280 (see Figure 1). The existing West site includes six permanent buildings connected by covered walkways and four portable buildings, totaling approximately 32,400 square feet. The West campus is on a sloped site graded from the south to north. The area of the West campus is approximately 6.9 acres. The existing West campus layout is presented in Figure D1.

1.2 Issues Addressed by this Study

1.2.1 On-Site Utilities

- ***Service to new buildings*** – Proposed master plan improvements for new and future building locations were provided by Capital Program Management, Inc. (CPM). Based on the anticipated demands typical of the proposed improvements, services to new buildings are shown as lateral connections to existing site utility mains.
- ***Existing utility system deficiencies*** – The existing wet utilities (storm drain, sanitary sewer, and water systems) were evaluated to identify existing system deficiencies and demands that will occur with the proposed campus improvements. The estimated remaining life cycle of the existing utility systems are tabulated to facilitate budget projections for capital improvement replacement programs.
- ***Relocation of existing utilities around proposed building footprints*** – Buildings proposed as a part of the District's master plan conflict with some of the existing utility alignments. As a part of the proposed improvement plans, some utilities will have to be adjusted. Utilities conflicting with the proposed improvement plans have been identified and realigned accordingly. Figures for each campus show existing as well as proposed utility alignments.

1.2.2 Off-Site Capacities

This study includes the evaluation of on-site utilities and their effects to off-site utility systems, if any. This information is presented as background data for the District's bond improvement program environmental document. The environmental document is currently being prepared by Environmental Science Associates to comply with California Environmental Quality Act (CEQA) requirements.

1.2.3 Preliminary Quantity Estimates

Quantities and sizes for both existing and proposed utility alignments noted throughout this report are provided for use by the District in developing future replacement or construction programs. These quantities may change as modifications are made to any final designs.

1.3 Background Information

A number of sources were used to obtain existing site development data and background information about utility systems, including the following:

- Record drawings were collected by CPM for all HCSD school sites.
- Subtronic Corporation conducted a survey of existing underground utility lines using electromagnetic field induction methods, primarily in the vicinity of proposed building improvements throughout all four campuses.
- The Town of Hillsborough Water Department provided detailed maps of distribution lines in the vicinity of the campuses.
- The Central County Fire Department provided hydrant flow test information for existing hydrants in the vicinity of each school campus.
- CH2MHill prepared an Infiltration/Inflow Study for the Town of Hillsborough's sanitary sewer system in August 1991.