

# Table of Contents

1	Introduction.....	1
1.1	School Sites .....	1
1.2	Issues Addressed by this Study.....	2
1.3	Background Information.....	3
2	Executive Summary .....	4
2.1	Existing System and Deficiencies .....	4
2.2	New Building Conflicts with Existing Systems .....	4
2.3	Proposed Corridors for Utility Relocation.....	5
2.4	Best Management Practices.....	6
2.5	Off-Site System Capacity Impacts.....	6
2.6	Schedule of System Upgrades .....	7
3	Existing Utilities .....	8
3.1	Water System.....	8
3.2	Sanitary Sewer System .....	9
3.3	Storm Drain System and Best Management Practices .....	10
3.4	Gas System .....	11
3.5	Power and Communications .....	11
4	Proposed Utilities.....	12
4.1	Water System.....	12
4.2	Sanitary Sewer System .....	15
4.3	Storm Drain System.....	16
4.4	Gas Line System .....	18
4.5	Power and Communications .....	19
5	Replacement Schedule .....	20
5.1	System Priorities .....	20
5.2	Replacement Triggers.....	20

Figure 1 Title Sheet – Area Maps

**Appendix A – Crocker Middle School**

Figure A1 – Existing Site

Figure A2 – Proposed Site

Figure A3.1 – Water Line Improvements

Figure A3.2 – Water Line Improvements Details

Figure A4.1 – Sanitary Sewer Line Improvements

Figure A5.1 – Storm Drain Line Improvements

Figure A5.2 – Storm Drain Line Improvements Details

Figure A6.1 – Gas Line Improvements

Figure A6.2 – Gas Line Improvements Details

Figure A7.1 – Electrical Improvements

Figure A7.2 – Electrical Improvements Details

Figure A7.3 – Electrical Improvements Details

Table 1 – Flow Test Results Summary

Table 2 – Proposed Fire Calculations

Table 3 – Crocker Proposed Fire Connection Calculations

Table 4 – Crocker Proposed Sanitary Sewer Calculations

Table 5.1.1 – Existing Hydrology: 100-Year Event

Table 5.1.2 – Existing Hydraulics: 100-Year Event

Table 5.2.1 – Proposed Hydrology: 100 Year Event

Table 5.2.2 – Proposed Hydraulics: 100 Year Event

Table 6.1.1 – Existing Utilities Inventory: Water Line Details

Table 6.1.2 – Existing Utilities Inventory: Irrigation Line Details

Table 6.2 – Existing Utilities Inventory: Sanitary Sewer Details

Table 6.3 – Existing Utilities Inventory: Storm Drain Details

Table 6.4 – Existing Utilities Inventory: Gas Line Details

Table 6.5 – Existing Utilities Inventory: Join Trench Details

Table 7 – Stormwater C.3. Vegetated Swale Conformance Worksheet

**Appendix B – North School**

Figure B1 – Existing Site

Figure B2 – Proposed Site

Figure B3.1 – Water Line Improvements

Figure B3.2 – Water Line Improvements Details

Figure B4.1 – Sanitary Sewer Line Improvements

Figure B5.1 – Storm Drain Line Improvements

Figure B5.2 – Storm Drain Line Improvements Details

Figure B6.1 – Gas Line Improvements

Figure B7.1 – Electrical Improvements

Figure B7.2 – Electrical Improvements Details

Table 1.1 – Existing Utilities Inventory: Water Line Details

Table 1.2 – Existing Utilities Inventory: Sanitary Sewer Details

Table 1.3 – Existing Utilities Inventory: Storm Drain Details

Table 1.4 – Existing Utilities Inventory: Gas Line Details

Table 1.5 – Existing Utilities Inventory: Join Trench Details  
Table 2 – Stormwater C.3. Vegetated Swale Conformance Worksheet

## **Appendix C – South School**

Figure C1 – Existing Site  
Figure C2 – Proposed Site  
Figure C3.1 – Water Line Improvements  
Figure C4.1 – Sanitary Sewer Line Improvements  
Figure C5.1 – Storm Drain Line Improvements  
Figure C6.1 – Gas Line Improvements  
Figure C7.1 – Electrical Improvements  
Table 1 – Flow Test Results Summary  
Table 2 – Proposed Fire Calculations  
Table 3 – Crocker Proposed Fire Connection Calculations  
Table 4.1 – Existing Utilities Inventory: Water Line Details  
Table 4.2 – Existing Utilities Inventory: Sanitary Sewer Details  
Table 4.3 – Existing Utilities Inventory: Storm Drain Details  
Table 4.4 – Existing Utilities Inventory: Gas Line Details  
Table 4.5 – Existing Utilities Inventory: Join Trench Details

## **Appendix D – West School**

Figure D1 – Existing Site  
Figure D2 – Proposed Site  
Figure D3.1 – Water Line Improvements  
Figure D4.1 – Sanitary Sewer Line Improvements  
Figure D5.1 – Storm Drain Line Improvements  
Figure D6.1 – Gas Line Improvements  
Figure D7.1 – Electrical Improvements  
Figure D7.2 – Electrical Improvements Details  
Table 1 – Flow Test Results Summary  
Table 2 – Proposed Fire Calculations  
Table 3.1.1 – Existing Utilities Inventory: Water Line Details  
Table 3.1.2 – Existing Utilities Inventory: Irrigation Line Details  
Table 3.2 – Existing Utilities Inventory: Sanitary Sewer Details  
Table 3.3 – Existing Utilities Inventory: Storm Drain Details  
Table 3.4 – Existing Utilities Inventory: Gas Line Details  
Table 3.5 – Existing Utilities Inventory: Join Trench Details  
Table 4 – Stormwater C.3. Vegetated Swale Conformance Worksheet

## **Appendix E**

- Building Square Footage

## **Appendix F**

Pending Items / Pending Issues