

REMOVAL ACTION WORK PLAN

**ULYSSES S. GRANT SENIOR HIGH SCHOOL
13000 Oxnard Street
Los Angeles, California**

August 24, 2017

SUBMITTED TO:

**OFFICE OF ENVIRONMENTAL HEALTH & SAFETY
Los Angeles Unified School District
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Attention: Mr. Andrew Modugno**

PREPARED FOR:

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REMOVAL ACTION WORK PLAN

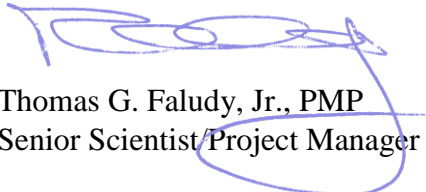
WARRANTY STATEMENT

This Removal Action Workplan (RAW) has been prepared by Wayne Perry, Inc. (WPI) for the exclusive use of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS), as it pertains to the Ulysses S Grant Senior High School (the Site) located at 13000 Oxnard Street in Los Angeles, California. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, hydrogeologists, and engineers practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report.

If you have questions or require additional information regarding this work plan, please contact Mr. Andrew Modugno at (213) 241-3433, or Mr. Eric Floyd at (714) 720-9796.

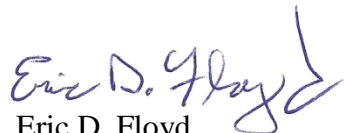
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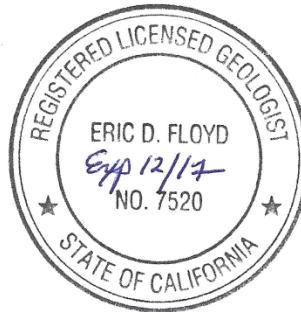


TABLE OF CONTENTS

| | |
|--|----------|
| EXECUTIVE SUMMARY | 3 |
| 1.0 INTRODUCTION..... | 1 |
| 2.0 BACKGROUND | 1 |
| 2.1 Site Description..... | 1 |
| 2.2 Regional Geology and Hydrogeology | 1 |
| 2.3 Prefield Activities | 2 |
| 2.3.1 Health and Safety | 2 |
| 2.3.2 Permitting..... | 2 |
| 2.3.3 Utility Location | 2 |
| 3.0 Clarifier Removal, Assessment, and Backfill | 2 |
| 4.0 Hoist Removals, Assessment, and Backfill | 3 |
| 5.0 Contingency - Remedial Action | 4 |

FIGURES

| | |
|----------|-------------------|
| Figure 1 | Site Location Map |
| Figure 2 | Plot Plan |

EXECUTIVE SUMMARY

Los Angeles Unified School District's (LAUSD's) Ulysses S Grand Senior High School is located at 13000 Oxnard Street in Los Angeles, California (herein referred to as the "Site"). The LAUSD is proposing to redevelop and/or modernize approximately 10 acres of the Site. These activities will require the demolition of several structures and the removal of three clarifiers and three hydraulic vehicle hoists. This Removal Action Workplan (RAW) provides general procedures for these removals activities and contingency planning for assessing and handling soils that may have been impacted by operation of the clarifiers and hoists.

1.0 INTRODUCTION

This Removal Action Workplan (RAW) provides procedures to be followed during the removal of three clarifiers and three hydraulic vehicle lifts (lifts) at the Los Angeles Unified School District's (LAUSD's) Ulysses S Grand Senior High School located at 13000 Oxnard Street in Los Angeles, California (herein referred to as the "Site"). These structures were identified as recognized environmental conditions (RECs) by the Phase I Environmental Site Assessment conducted for the Site's planned redevelopment and modernization (CES Group 2017). A Site Location Map is provided as **Figure 1**.

The purpose of this RAW is to provide an overview of procedures for removal of the clarifiers and hoists and to provide detailed contingency procedures that can be used if impacted soil is encountered.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is currently occupied by an operating high school. It is bounded on the north by Oxnard Street, to the south by Hatteras Street, to the west by Ethel Avenue, and to the east by the Tujunga Wash. It is surrounded by the residential neighborhood of "Valley Glen" (CES 2017).

Prior to the 1920's the Site was used for agriculture and had several residential dwellings. By the early 1960's, the Site was developed with several buildings and playfields indicative of the property being used as a high school (CES 2017).

One of the clarifiers and one of the lifts to be removed are located outside of the former Auto Shop under a awning structure attached to the Auto Shop. The other two lifts are located inside the Auto Shop. Of the remaining two clarifiers, one is located outside Room 300 and services the Arts classrooms. The other clarifier is located outside Room 108 and services the Science classrooms (CES 2017). A Site Plan showing the locations of the former Auto Shop, Room 108, and Room 300 is provided as **Figure 2**.

2.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located within a region dominated by the Transverse Ranges geomorphic province which is characterized by east-west trending structures that include the Santa Monica Mountains and the San Fernando fault zone (CES 2017).

According to the California Department of Water Resources Bulletin 118, updated in 2003, the Site lies within the San Fernando Valley Groundwater Basin, which includes water-bearing sediments beneath the San Fernando Valley.

2.3 PREFIELD ACTIVITIES

2.3.1 Health and Safety

Prior to the initiation of field activities, a Site specific Health and Safety Plan (HSP) must be prepared that addresses all planned/anticipated activities and considers all anticipated Site contaminants. Appropriate monitoring equipment will be specified as well as symptoms of exposure to potential Site contaminants. The HSP will include directions to the nearest hospital and urgent care unit. It will also include contact information for WPI and LAUSD personnel, regulatory agencies and other appropriate resources. All personnel that engage in Site work must be OSHA certified under 29 CFR 1910.120(e)(8),(q)(8) and Cal/OSHA 8 CCR 5192(e)(q).

2.3.2 Permitting

Prior to the initiation of Site activities, the Los Angeles City Department of Public Works and the City of Los Angeles Fire Department should be contacted to determine if clarifier removal permits are required. If the hydraulic reservoir for the hoist(s) is underground, the Los Angeles Fire Department may classify it as an underground storage tank (UST) closure. Note that these agencies may require a Clarifier/Hoist Closure Work Plan.

2.3.3 Utility Location

Excavation boundaries should be marked at the Site in white paint. Underground Service Alert should be contacted at least 48 hours prior to the initiation of excavation to mark all utility locations at the Site. An underground utility locator should be used to ensure that buried utilities are not present in the excavation footprint(s).

3.0 CLARIFIER REMOVAL, ASSESSMENT, AND BACKFILL

An overview of general clarifier removal procedures is provided below.

- Collect a sample of the clarifier contents and analyze it for:
 - Total petroleum hydrocarbons as gasoline (TPH-G, diesel (TPH-D) and oil (TPH-O) by EPA Method 8015;
 - Full-scan volatile organic compounds (VOCs) by EPA Method 8260B;
 - Semi-volatile organic compounds (SVOCs) using EPA Method 8270D;
 - Organochlorine pesticides (OCPs) using EPA Method 8081A; and
 - Polychlorinated Biphenyls (PCBs) using EPA Method 8082A
- Consult LAUSD and/or their designee to determine the required sample turn-around-time. Analytical testing described shall be conducted by an independent State certified analytical laboratory;
- Remove the clarifier contents and pressure wash the inside walls with water.

- Transport the clarifier contents and wash water to an approved off-site disposal/recycling facility.
- Saw cut each clarifier excavation perimeter.
- Break up concrete clarifier into pieces capable of transport and disposal as construction debris at an off-site disposal facility.
- Cap and seal the underground influent and effluent clarifier piping.
- Clean up excavation by removing one foot of soil from sides and bottom.
- Clarifier excavation soil sampling:
 - Soil samples should be collected from a depth of approximately two-feet beneath the excavation floor and beneath the influent and effluent piping connections (3 soil samples from each clarifier location).
 - One composite sample should be collected from the soil stockpile for every 10 cubic yards of stockpiled soil.
- Clarifier soil sample analysis:
 - TPH-G, TPH-D and TPH-O using EPA Method 8015;
 - Full-scan VOCs by EPA Method 8260B;
 - OCPs using EPA Method 8081A;
 - Polychlorinated Biphenyls (PCBs) using EPA Method 8082A;
 - Lead using EPA 6010B (wet extraction; if needed STLC);
 - Arsenic using EPA 6020; and
 - Title 22 CAM Metals.
 - Note that all soil samples designated for volatile analyses must be preserved in the field using the EPA 5035 protocol.
- Backfill – Pending permission from LAUSD and/or their designee, use LAUSD-approved backfill material and compact to grade per grading plan.

4.0 HOIST REMOVALS, ASSESSMENT, AND BACKFILL

An overview of general procedures for the hoist removals is provided below.

- Remove and containerize any hydraulic fluid remaining in lifts, reservoirs, and/or conveyance piping.
- Saw cut the perimeter of each hoist excavation.
- Rinse any underground hydraulic fluid piping and containerize the rinse water.
- Excavate each hoist and remove.
- Break up any concrete pad found beneath the hoists into pieces capable of being transported and disposed of as construction debris at an off-site disposal facility.

- Clean up each hoist excavation by removing one foot of soil from the sides and bottom.
- Collect one soil sample from approximately two-feet beneath the bottom of each hoist excavation. Analyze these samples for:
 - TPH-O using EPA Method 8015;
 - Polychlorinated Biphenyls (PCBs) using EPA Method 8082A;
- Collect one composite sample from the hoist excavation soil stockpile and analyze it for Title 22 CAM Metals.
- The hoists, reservoirs, and piping should be transported and disposed of at an appropriate off-site disposal/recycling facility.
- Backfill – Pending permission from LAUSD and/or their designee, use LAUSD-approved backfill material and compact to grade per grading plan.

5.0 CONTINGENCY - REMEDIAL ACTION

In the event that chemically impacted soils are observed/ detected during removal of the clarifiers or hoists at the Site, the LAUSD project manager should be notified immediately. The OEHS and/or their designee will direct the removal/excavation contractor to remove and stockpile impacted soil(s) in accordance with appropriate permits and established procedures. Typically, impacted soil is segregated and stockpiled by placing it on and covering it with visqueen plastic sheeting.

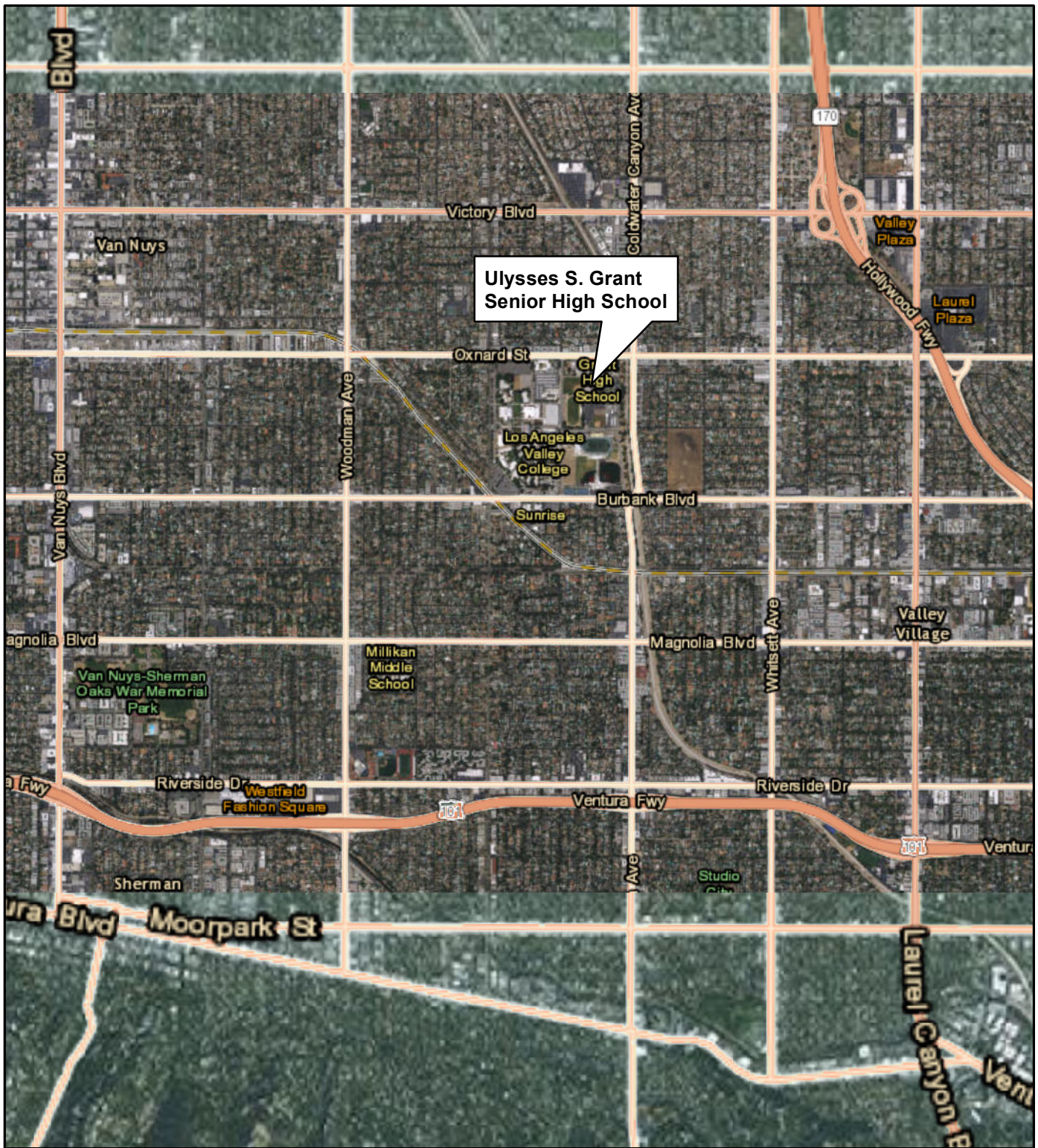
Confirmation soil samples will be required from the excavation. These samples will be obtained from the excavation bottom and sidewalls. All samples collected from an excavation must be obtained with the backhoe (personnel are not to enter an excavation for any reason). A 2 x 6 inch brass sleeve should be forced into soil from the toe of the backhoe bucket until it is completely filled. Once filled, each end of the tube should be covered with Teflon sheets and sealed with plastic end-caps. The sample tube should be labeled with a unique number and recorded on a chain-of-custody form. It should then be sealed in a plastic bag and immediately placed in an ice-chilled cooler. Soil samples designated for volatile analyses must be preserved in the field using the EPA 5035 protocol. All sample locations must be noted on a field map.

Sampling equipment should be washed with an approved non-phosphate detergent and water, double-rinsed, and air dried prior to sample collection and between each sample location.

If results from the analyses of these samples indicate that all impacted soil has been removed, the excavation can be backfilled and compacted to grade per the grading plan with permission from LAUSD and/or their designee.


Impacted soils removed from the excavation must be sampled and profiled for off-site disposal/recycling. The selection of the off-site disposal/recycling facility must be coordinated with and pre-approved by LAUSD.

FIGURES

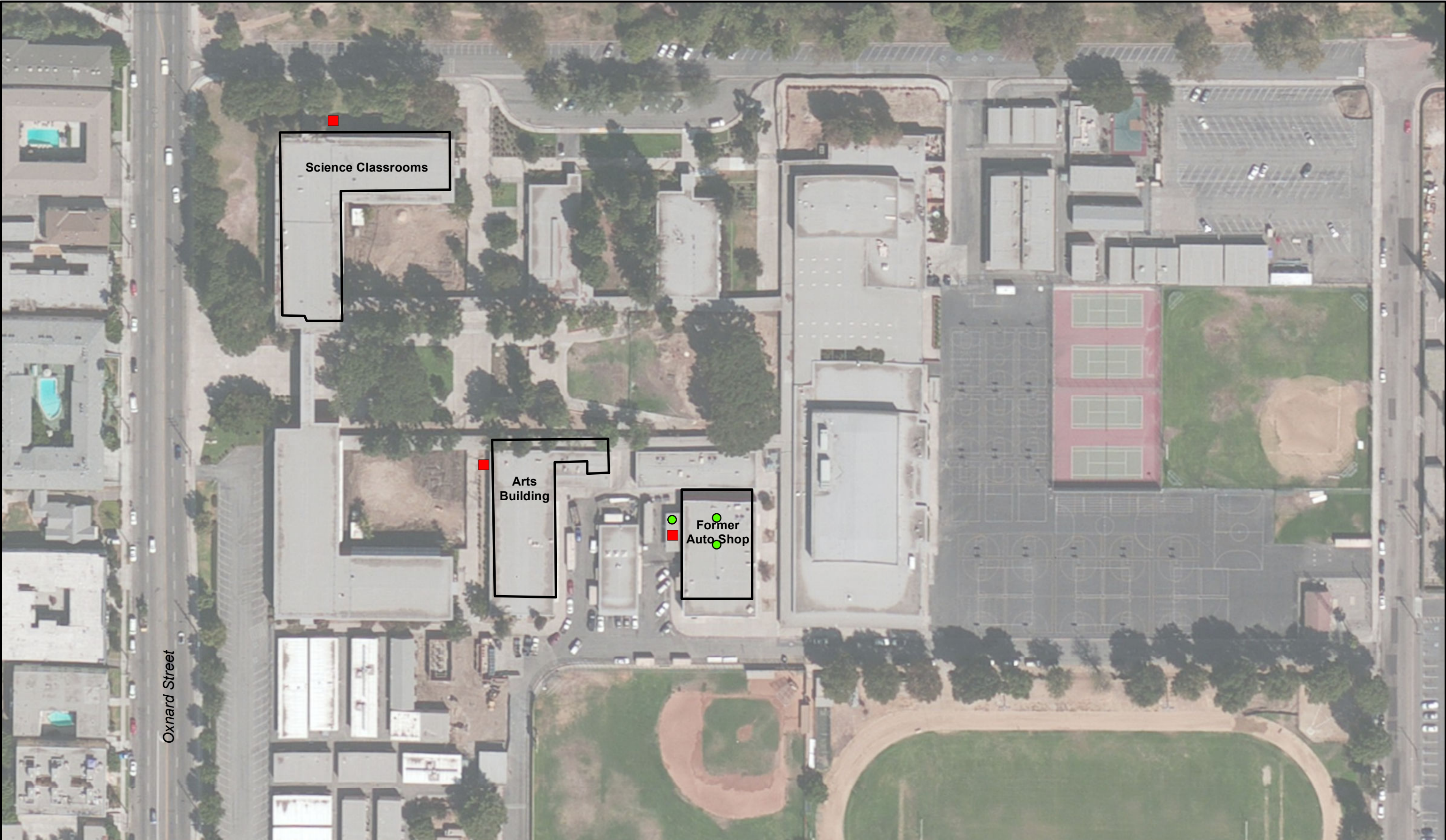


Aerial Imagery from ESRI Online Map Service 2017



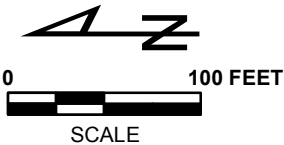
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|---|---------|--|-----------------------|
|  | | Site Location Map | FIGURE NO. |
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| | FILE | | PROJECT NO. 170700 |

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LEGEND

- Approximate Location of Lift To Be Removed
- Approximate Location of Clarifier To Be Removed



| | | |
|--------------|--|------------------------|
| DATE | Plot Plan | FIGURE NO. 2 |
| REVISED | | |
| FILE | Ulysses S. Grant High School 13000 Oxnard Street Los Angeles, California | PROJECT NO. 170700 |
| 8/24/2017 | | |
| PlotPlan.mxd | | |