

# Project Profile

## Lathrop High School - Lathrop, California



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### Project Background

Lathrop High School is a 48-acre educational facility located in the California Central Valley. The site includes several buildings surrounded by extensive concrete walkways, parking lots, and outlying athletic fields.

### Scope of Work

Top Grade managed all rough and fine grade operations, as well as rock and pave for this project.

- 220,000 SF of building pads
- 509,000 SF of AC paving
- 135,000 SF of concrete walkways and courtyards
- 791,000 SF of athletic fields

In order to provide a space for the client to store materials and avoid mud due to inclement weather, Top Grade paved the hardcourt area prior to the rainy season. This forethought created an added benefit to the client, allowing them to work efficiently throughout the winter.

### Challenges

Not only was dirt required in order to balance the site, but the project's geotechnical report called for the building pads to be over-excavated at a depth ranging from 6' to 18'. Because the water table was between 6' to 8' below the existing grade, dewatering was needed.

These requirements would have resulted in costly operations including extending the construction schedule and working in extremely wet conditions.

### Solutions

Using excess dirt that was generated on site, Top Grade modified the grades in the field areas, which resulted in a balanced site without the need for off-haul, saving the client approximately \$270,000.

Additionally, instead of over-excavating the building pads, Top Grade worked with the general contractor, geotechnical engineer and architect to devise a plan using deep dynamic compaction, which was the best process for this type of soil and the existing conditions.

By identifying a creative solution, Top Grade eliminated the substantial time and expense that would have been incurred using traditional methods. Construction of the buildings was able to begin sooner, and Top Grade saved the client an additional \$250,000.

### Facts

The Lathrop High School project came in under budget and was finished ahead of schedule due to Top Grade's ingenuity and the combined efforts of Top Grade, F & H Construction, and all sub-contractors on the project.

**Client:**  
F & H Construction

**Project Type:**  
Educational

**Location:**  
Lathrop, Calif.

**Duration:**  
October 2006-July 2008

**Value:**  
\$3,000,000