



Pavement and Geotechnical Services for HOAs

GMU is a multi-disciplined engineering firm with over 50 years of experience.

Pavement Engineering Services

Phase 1 – Pavement Management Plan

- Pavement reserve budget study performed by Pavement Engineers (objective rating of the pavement network condition)
- Help HOAs understand funding needs to cost-effectively prioritize street projects and optimize the pavement network condition
- Provide conceptual pavement repair recommendations and estimated construction costs for the recommended upcoming pavement projects

Phase 2 – Pavement Evaluation and Design

- Evaluate pavement surface condition
- Perform falling weight deflectometer (deflection) testing for remaining life and rehabilitation design analysis
- Perform pavement corings to measure in-place pavement layer thicknesses and collect subgrade soil samples for laboratory testing
- Perform lab testing of the collected pavement materials in our in-house Caltrans-certified materials laboratory
- Develop street-specific pavement repair recommendations.

Phase 3 – Plans, Specifications, and Bidding

- Prepare bid package, including plans & specifications
- Solicit bids to various invited paving contractors experienced in HOA paving
- Review/summarize bids received
- Recommend paving contractor based on pricing, qualifications, scheduling, etc.

Phase 4 – Construction Management Advisory

- Perform construction management oversight during construction to verify the work is performed in accordance with plans/specs/code requirements
- Sample materials for compliance laboratory tests (percent asphalt binder content, gradation, max density, stability value, etc.)
- Perform in-place compaction testing using a nuclear density gauge

Geotechnical and Geotechnical Engineering Services

- Slope condition assessment
- Landslide evaluation and repair/slope stabilization
- Groundwater assessments
- Distress evaluation for common area structures and improvements
- Design plans, specifications, and bidding support for repair design (both geotechnical and structural)
- Litigation support
- Structural design of all types of retaining walls/landscape improvements/temporary shoring



CORE SERVICES

Geotechnical Engineering and Engineering Geology
Pavement Engineering
Structural Engineering
Civil Engineering
Forensic Engineering/Expert Witness
Soils/Materials Testing
Construction Management/Monitoring

SPECIALTY SERVICES

Comprehensive Field Inspection Services – Soils and Registered Special Inspection
Stormwater QSP
Geotechnical Instrumentation
Geotechnical and Seismic Numerical Modeling
Construction Vibration/Blast Consulting

PROJECT TYPES

Erosion Repair
Deep-Seated Landslide Remediation
Surficial Slope Repairs
Parking Lots
Streets
Grading Plan Design
Specifications and Bid Documents
Bid Support
Plan Submittal and Permit Processing