

DATE: August 15, 2023 (Rev.)

PROJECT NUMBER:

SL11970-1

CLIENT:

Las Ventanas Road Maintenance Committee c/o Wallace Group Attn: Rob Miller 612 Clarion Court San Luis Obispo, California 93401

PROJECT NAME:

Las Ventanas Tract Arroyo Grande Area, San Luis Obispo

Las Ventanas Erosion Repair

Dear Mr. Talley:

Background:

GeoSolutions, Inc. was contacted to help develop repair recommendations within the Las Ventanas Tract. During this year's rainy season two areas have significant erosion. The erosion is in existing drainage paths. Site 1 is located adjacent to Camino San Gabriel and Site 2 is located off Camino Purisima. The purpose of this revision is to include the locations of the erosion sites. See Figure 1 below for approximate locations.



Figure 1: Erosion Locations

Recommendations:

An existing drainage pipe coming off Camino San Gabriel, Site 1, has created a down cut to rock. The down cut is migrating uphill and could threaten the roadway and existing utilities.

This area can be graded in a way to restore prior contours. To grade this area the soils will need to be "keyed and benched" into underlying rock, see attached key and bench detail.

The surface drainage from the roadway should be conveyed by pipe to the bottom of the hill. At the point of discharge a concrete or rock structure is required to slow velocities and limit future erosion.

Site 2 has eroded a deep incised channel exposing rock. It appears the headwall of the erosion is relatively stable. At Site 2 we recommend the placement of large rock, approximately 1-to-2-ton stone placed on a non-permeable fabric. The large stone should be filled with smaller 6-to-12-inch rock to fill voids and lock the system together.

220 High Street San Luis Obispo CA 93401 805.543.8539

1021 Tama Lane, Suite 105 Santa Maria, CA 93455 805.614.6333

PO Box 30159 Santa Barbara, CA 93105 805.966.2200

info@geosolutions.net

sbinfo@geosolutions.net

Thank you for the opportunity to have been of service in preparing this report. If you have any questions or require additional assistance, preserved to contact the undersigned at (805) 614-6333.

PICK B. MC Sincerely, REGIST A Va 9 INEER GeoSolutions, Inc. No. 59577 trick B. Mel Patrick B. McNeill, PE Principal ÛF CO Attachment: Key and Bench Detail

\\192.168.1.100\s\SL11500-SL11999\SL11970-1 - Las Ventanas Tract Roadway Repairs\Construction\SL11970-1 RFI #2 Erosion Repair (Rev.).doc



