



Lincoln and Long Civil Engineering

568 East Main Street, Suite D · Grass Valley · CA · USA · 95945
www.lincolnandlong.com · Phone: (530) 273-0503 · Fax: (530) 274-3415

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County of Nevada
Planning Department
950 Maidu Avenue
Nevada City, CA 95959

Subject: Steep Slope Management Plan for Ananda Planned Development – Cluster M

GENERAL

This is a management plan for Ananda Planned Development, County of Nevada, California. The subject area is located on portions of Brindaban Way within Cluster M. The owner desires to regrade and improve Brindaban Way to meet 4290 fire safe standards. In order to achieve the desired grading for the roadway, 30%+ slopes may have to be disturbed. The important task is to prevent sediments from entering downstream drainages. Due to topography, there is no alternate roadway location that would have less impact.

IDENTIFICATION OF THE RESOURCE

The resource of concern is disturbance of original ground as a result of grading in the above mentioned 30%+ slope area, and the desire is to prevent sediments and other undesirable materials from being discharged into the adjacent drainages.

NATURE AND DEGREE OF IMPACT TO THE RESOURCE

The subject property is a portion of the Ananda Planned Development – Cluster M. Uncontrolled development of Brindaban Way could contribute undesirable runoff to the adjacent drainages. Proper planning and construction must be a commitment during the improvement phase.

Mitigation measures are:

- 1) Absolutely no soil disturbance during wet season. No earth moving operations are to be performed during the period beginning on October 15 and ending on April 15 of the following year.

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- 2) Fills that may be required in the roadway area must be compacted to minimum 90% relative compaction and surfaced with 4 inches aggregate base (or asphalt if over 16% grade). The driveway roadside ditches shall be lined with 8" minus riprap in areas in excess of 12% slope.
- 3) Use Best Management Practices for site development. Limit soil disturbance to the areas graded. Properly install sediment traps such as straw bale barriers or fiber rolls downhill of soils disturbance areas. Provide for periodic cleanup to avoid clutter. Maintain all sediment devices until a ground cover is established.
- 4) For this specific site, a minimum requirement will be to install a fiber roll barrier (or a row of straw bales) on an even contour (barrier may be staggered with about 5 foot of horizontal overlap) as close to the limit of activity as practical (the road area plus about 10 foot for circulation and access plus any additional length to stay on an even contour. The erosion barrier shall be located on the fall line downhill from the construction activity and wider by about 5 feet.
- 5) Both temporary and permanent erosion control measures must be used. Establish ground covers on all disturbed area prior to the wet season. Apply a minimum of 10 LB per acre of creeping wild rye (*Leymus triticoides*), California brome (*Melica californica*), red fescue (*Festuca rubra*), and California melic (*Melica californica*). Water until a cover is established. Reapply as necessary to establish a cover for disturbed areas. Maintain the ground cover on a permanent basis.
- 6) Inspect erosion measures on a regular basis and after the first rains. Remedy any areas which develop erosion by appropriate measures as listed above.
- 7) Interceptor drains, with 8" minus riprap lining, shall be incorporated above all fill and cut slopes, where the ditch slope is 12% or greater, to direct drainage around such slopes.
- 8) All slopes created shall be 2:1 or less in steepness.
- 9) Road cross slope shall direct run off away from fill slopes.
- 10) In areas of 30% slope disturbance it may be necessary to reduce the slope height by using a retaining wall. This will be on a case by case basis with an onsite inspection, by the project engineer, to make the final determination.

TIME FRAME FOR COMPLETION

The plan is to regrade Brindaban Way to service the Cluster "M" area. This work is to meet 4290 fire safe standards. Erosion control measures should be in place and operating prior to starting any work. New vegetation should be established prior to October 15th of each year. All erosion control measures must be periodically inspected and repaired as necessary. Construction should proceed in an efficient manner and be completed within 24 months.

This Cluster "M" area has only a few areas of 30% slopes or more. Included is a map of Ananda Cluster "M" showing the steep slopes that exist for approximately 400 feet along the existing gravel road known as Brindaban Way. Most grading in the Cluster "M" improvement area will be on slopes less than 30% therefore adhering to the recommendations provided for grading activities between April 15 and October 15 will be adequate.

Should other anomalies be discovered in other development areas of the Master Plan, the same impact mitigation measures should be employed, with a site visit by a civil engineer to determine if additional or alternative measures are needed.

Prepared by,

David L. Lincoln
CE 27126