

Staff Report to the Planning Commission

Application Number: 10-0069

Applicant: Jim Weaver c/o Pacific Rim

Agenda Date: July 27, 2011

Planning Group

Owner: Alta Vista Ocean View Estates Attn:

Agenda Item #: 12

Larry Stephens

APN: 107-011-06

Time: After 9:00 a.m.

Project Description: Proposal to divide an existing 305.83-acre parcel into 7 parcels ranging in size from 2.89 to 270.1 acres/square feet, and to grade approximately 3,144 cubic yards.

Location: Project located at the western terminus of Telford Road, about 1/2 mile west of the intersection with Corralitos Ridge Rd., off of Enos Lane in Corralitos.

Supervisoral District: 2nd District (District Supervisor: Ellen Pirie)

Permits Required: Subdivision

Technical Reviews: Preliminary Grading Approval, Geotechnical Report Reivew, Geology

Report Review, Design Review, and Environmental Review

Staff Recommendation:

- Certification of the Mitigated Negative Declaration completed in accordance with the California Environmental Quality Act
- Approval of Application 10-0069, based on the attached findings and conditions.

Exhibits

A. Project plans

B. Findings

C. Conditions

D. Mitigated Negative Declaration (CEQA determination) with attachments

E. Initial Study with attachments; including:

Attachment 1 – Assessor's Parcel

Location, Zoning, General Plan Attachments 3 through 7 – Technical Reviews Attachments 10 and 11- Comments

and Correspondence

Attachment 12 – Rural Density

Matrix

F. Neighborhood Meeting Minutes

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Parcel Information

Parcel Size:

305.82 acres

Existing Land Use - Parcel:

Vacant/timber production

Existing Land Use - Surrounding:

Timber production/rural residential

Project Access:

Enos Lane

Planning Area:

Aptos Hills/Eureka Canyon R-M (Mountain Residential)

Zone District:

Land Use Designation:

TP, RA, SU (Timber Production, Residential

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Agriculture, Special Use)

Coastal Zone:

Inside X Outside

Appealable to Calif. Coastal Comm.

 $\overline{\underline{}}$ Yes $\overline{\underline{}}$ No

Environmental Information

Geologic Hazards:

Zayante Fault mapped ¼ mile from site; Geology Report submitted

with recommendations

Soils:

N/A

Fire Hazard:

Portion mapped critical fire

Slopes:

No development proposed on slopes in excess of 30%

Env. Sen. Habitat:

Not mapped; potential dusky-footed woodrat habitat identified on

site; Biotic Report submitted with recommendations

Grading:

Grading includes about 3,150 cubic yards of excavation and 1,740

cubic yards of fill.

Tree Removal:

Three to six conifers proposed for removal.

Scenic:

Not a mapped resource

Drainage:

Engineered drainage plans reviewed and accepted

Archeology:

Mapped resource; Report prepared with no resources found

Services Information

Urban/Rural Services Line:

_ Inside <u>X</u> Outside

Water Supply:

Private individual wells Individual septic systems

Sewage Disposal: Fire District:

Calfire

Drainage District:

Zone 7

History

In 2007, a Rural Density Matrix was prepared in order to determine the minimum lot size requirement for a potential land division (Attachment 14 of Exhibit E). The matrix was performed on parcels 107-011-05 and 107-071-02, which were analyzed as a single unit and subsequently combined to create the subject parcel. In 2009, the applicant submitted a biotic assessment in order to qualify for the conditional matrix score. The biotic report stated that no suitable habitat for special status species was found on the site and the matrix calculation resulted in a minimum average developable parcel size of 25 acres, thereby allowing seven parcels to be created. The subject application was made in March 2010.

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Project Setting

The subject property is a vacant rural parcel approximately 306 acres in area, located near the terminus of Telford Drive, off Enos Lane in Corralitos. The parcel occupies the flanks of the ridge located between Pleasant Valley and Rider Creek. The parcel is characterized by a level to moderate east-facing slope. The slopes within the proposed building envelopes are mild. The proposed areas of development are vegetated with open grassland and chaparral, interspersed with native and non-native conifers, oak and madrone. Surrounding parcels closest to the proposed building sites are developed with single-family dwellings (south) and vacant acreage designated for timber production (west).

The northern two-thirds of the parcel contains timber resources and is zoned for Timber Production (TP). The area proposed for residential development is located on a broad ridge crest at the southern end of the property and is zoned Residential Agriculture (RA) and Special Use (SU). Drainage of surface water generally flows to the northeast toward Rider Creek and the southwest toward Pleasant Valley. Rider Creek is located along the eastern and northern property boundary and is not in proximity to any proposed development.

Primary access to the site is via Telford Drive, a private road that branches off of Enos Lane via Corralitos Ridge Road (also private roads). Telford Drive and Corralitos Ridge Road meet current Calfire road standards, while Enos Lane ranges from 12 to 15 feet in width and does not currently meet required Calfire standards with respect to required turnouts. The parcel is developed with an existing, unpaved secondary access road that extends northward through the parcel and connects with Rider Road. A second existing unpaved timber road runs east to west and will be maintained, while a third unpaved road located within the southern portion of the lot is proposed to be decommissioned and returned to native vegetation.

Project Description

The proposal is to divide the 305.83 acre subject parcel into 7 parcels, ranging in size from 2.89 to 270.1 acres and to create seven residential building envelopes. The largest of the resulting lots (Lot 1) is 270.1 acres in area and contains all of the timberland on the property. Lot 1 would retain three zone districts, corresponding to the timber resources in the north (Timber Production zone district) and residential development to the southeast (Residential Agriculture and Special Use). No development is currently proposed in the timbered portion of Lot 1.

Geologic building envelopes have been identified on the seven parcels to protect against potential geologic hazards associated with the Zayante Fault zone, located approximately 0.25 miles to the southwest.

Six of the proposed building sites (Lots 2-7) would take access via a newly constructed right-ofway off of Telford Drive, while the building site on Lot 1 would use the existing paved road for access. The proposal also includes improvements to Enos Lane which would bring the road into compliance with Calfire standards. These improvements would add turnouts at approximate 500foot intervals in those areas where the road does not meet the required 18-foot minimum width. In addition, the existing secondary access road would be widened and compacted to meet current fire protection district regulations. The secondary access road will also be improved with the placement of rolling dips and berms which will correct longstanding drainage and erosion

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problems along portions of the road.

The project also includes approximately 3,144 cubic yards of excavation and 1,739 cubic yards of fill for the purposes of creating the new access road and to provide individual driveways for Lots 2-7. There is no proposed grading on Lot 1.

Proposed drainage improvements include the construction of a bio-swale along the new access road, and a 190 foot long percolation trench at the terminus of the new access road. The bio-swale would outlet into eight energy dissipaters to maintain storm water runoff on site. The dissipaters are to be located within six drainage easements to the north of the new road.

Each of the lots will be served by individual wells and septic systems.

The construction of homes is not included in this subdivision application. Future home construction is conditioned to conform to approved Design Guidelines, to the site standards for the RA/SU zone districts, and to the specified geologic building envelopes. All proposed residential development has been clustered to the greatest extent possible.

Subdivision

As stated, the applicant proposes to divide the roughly 306-acre property into seven new parcels, The parcels range in size from 2.89 to 270.1 acres and each parcel contains a designated geologic building envelope and septic leach area. Primary access to six of the residential parcels would be provided by a new private 40-foot right-of-way, off of Telford road. Lot 1 would utilize the existing paved roadway. The existing unnamed, unpaved road that leads to Rider Road provides secondary access and would be upgraded and maintained for emergency use.

The subject property has a General Plan land use designation of R-M (Mountain Residential) which allows a density range of 10-40 net developable acres per unit. The Rural Density Matrix performed for the site (Attachment 14 to Exhibit E) determined 25 acres to be the minimum allowable parcel size for the proposed land division. General Plan Policy 2.3.3 (Averaging Parcel Sizes for Rural Land Divisions) allows averaging of required minimum parcels sizes for new rural land divisions when development is clustered, when the maximum number of new parcels does not exceed the maximum number allowed without clustering and when the newly created parcels cannot be further divided. In the case of the subject proposal, these conditions have been met and the resulting average parcel size is 43.69 acres. The proposed land division does not comply with the density range for the R-M. However, due to the more than 200 acres of timber resources that occupy the northern portion of the site, the parcel cannot be further divided to accommodate any additional lots without compromising the timber resource and future timber harvests. Therefore, the proposed configuration provides the maximum density possible for this parcel.

Biotic Resources

The site is not mapped as containing any special-status species, and a biotic report performed in 2008 (Attachment 10 to Exhibit E) did not reveal the presence of any suitable habitat. However during a 2010 site visit, Environmental Planning staff observed potential San Francisco dusky-footed woodrat habitat adjacent to the existing secondary access road. A survey for woodrats was conducted to evaluate the site (Attachment 12 of Exhibit E). The San Francisco dusky-footed woodrat is listed as a California Species of Special Concern. The 2010 survey identified one

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woodrat house along the eastern edge of Lot 7 and recommendations in the report include establishing a 25-foot buffer around identified woodrat houses during site improvement and vegetation removal, as well employing a biologist to monitor the removal of thick vegetation areas. In the event that an existing house is encountered, replacement houses will be constructed. All recommendations made in the woodrat survey have been incorporated as mitigations under CEQA and are included as required conditions of project approval.

Grading and Drainage

Proposed grading consists of approximately 3,150 cubic yards of excavation and 1,800 cubic yards of fill, for the purposes of extending Telford Drive to six of the newly created residential parcels and for six of the proposed residential driveways. Minor widening of Enos Lane and the secondary access road will also be required to bring the roads into compliance with current Calfire regulations.

Drainage Calculations were prepared (Attachment 9 of Exhibit E) for the project and indicate that the proposed storm water runoff storage and outlet system will ensure that the post-development runoff rate will not exceed the existing pre-development rate. The Drainage Section of the Department of Public Works has reviewed and accepted the Drainage Calculations and will review the drainage facilities for the individual lots prior to issuance of any building permits.

Per County Code Section 16.22.060, prior to Final Map recordation, the applicant will be required to submit final drainage and erosion control plans for review and approval by Public Works and Environmental Planning staff.

Geologic Hazards

The project site is located approximately ¼ mile from the Zayante Fault, a county-mapped fault. A Geologic Investigation for the project was prepared by Zinn Geology (Attachment 3 of Exhibit E) and a Geotechnical Investigation was prepared by Bauldry Engineering (Attachment 5 of Exhibit E). The geology report found a possible trace of the Zayante fault that extends into the southwestern portion of the subject lot and the project geologist established a 100-foot wide buffer zone to either side of the fault trace to ensure that all future habitable structures would be adequately set back from the potential faulting hazard. The geology report concluded that ground cracking would be unlikely to affect construction within the designated geologic building envelopes. To further ensure that the proposed development is not significantly impacted by geologic hazards, site-specific geologic investigations will be required for all individual home sites prior to any building permit approval. Additionally, project conditions require submittal and review of engineered grading and drainage plans prior to building permit approval and the drainage plans must demonstrate control of all storm water runoff and avoidance of concentrated runoff.

The proposed building sites shown on the Tentative Map conform to the recommendations made by the project geotechnical engineers and engineering geologist. No other seismic-related ground failure, landsliding or liquefaction potential was noted in the technical reports prepared for the site and the proposed locations of the percolation trench, energy dissipater and septic leach fields have been reviewed and approved by the geotechnical engineer. Environmental Planning staff Application #: 10-0069

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have reviewed and accepted both the Geologic Investigation and Geotechnical investigation submitted for this project.

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Design Review

The proposed subdivision is subject to the provisions of Chapter 13.11 (Site, architectural and landscape design review) of the County Code. The proposal does not include design or construction of individual houses, but provides Design Guidelines for the future construction. The stated objectives of the Design Guidelines are to ensure compatibility with the surrounding natural environment, to establish an identity for the subdivision, to support energy and water conservation and to provide for the health and welfare of future residents of the subdivision.

The configuration of the lots provides for clustering all residential development within the southern portion of the 306-acre lot and utilizes the existing road configuration to the greatest extent possible. The residential lots are designed to maximize solar opportunities and to be compatible with nearby residential development. Landscaping is required to utilize low and moderate water use native plants. The planting of non-native invasive species is prohibited. The subdivision Design Guidelines include provisions requiring future home design to employ staggered setbacks, varied roof plate and ridge heights, natural materials and colors, and other architectural features that break up mass and provide visual interest.

Project conditions require the subdivision Design Guidelines to be submitted and approved by Planning Department staff prior to building permit issuance and to be incorporated in the CC&Rs for the subdivision.

Environmental Review

Environmental review has been required for the proposed project per the requirements of the California Environmental Quality Act (CEQA). The project was reviewed by the County's Environmental Coordinator on June 13, 2011. A preliminary determination to issue a Negative Declaration with Mitigations (Exhibit D) was made on June 15, 2011. The mandatory public comment period expired on July 22, 2011, with no comments received and the determination was approved on July 25, 2011.

The environmental review process focused on the potential impacts of the project in the areas of biotic resources and utilities and service systems. The environmental review process generated mitigation measures that will reduce potential impacts from the proposed development and adequately address these issues.

Conclusion

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

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Staff Recommendation

- Certification of the Mitigated Negative Declaration completed in accordance with the California Environmental Quality Act.
- **APPROVAL** of Application Number **10-0069**, based on the attached findings and conditions.

Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: www.co.santa-cruz.ca.us

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Subdivision Findings

1. That the proposed subdivision meets all requirements or conditions of the Subdivision Ordinance and the State Subdivision Map Act.

This finding can be made, in that the project meets all of the technical requirements of the Subdivision Ordinance and is consistent with County General Plan and Zoning Ordinance as set forth in the findings below. The subject parcel is a legal lot and the Special Use (SU) and Residential Agriculture (RA) zoning districts and Mountain Residential (R-M) General Plan designation allow single-family residential development. The portion of the proposed lot within the Timber Production (TP) zone district will remain undeveloped and designated exclusively for future timber harvest use.

2. That the proposed subdivision, its design, and its improvements, are consistent with the General Plan, and Area General Plan or Specific Plan, if any.

This finding can be made in that the project creates seven parcels with a minimum average of 25 net developable acres per parcel as required for parcels within the Mountain Residential General Plan land use designation.

The project is consistent with the General Plan in that the necessary infrastructure is available to the site including private well, septic and electrical service. The residential development located on the parcels will take access from Telford Drive, a private road, via a newly created private access road. The proposed land division is similar to the pattern and density of the rural residential development immediately south of the project site.

While the location of the proposed building area is located approximately ¼ mile from a mapped fault, this potential hazard will be mitigated by the implementation of the recommendation made by the project engineering geologist and geotechnical engineer Specifically, the residential parcels contain designated geologic building envelopes that are located a safe distance from any fault or fault trace. Additionally, conditions of approval require site-specific geology reports to be submitted and accepted by the County Geologist prior to the issuance of any building permits.

The proposed land division will not impact any environmentally sensitive areas in that no ground disturbance is proposed in the vicinity of identified San Francisco dusky-footed woodrat habitat and all future construction will be required to adhere to the recommendation made in the Biotic Report prepared for the site.

3. That the proposed subdivision complies with Zoning Ordinance provisions as to uses of land, lot sizes, and dimensions and any other applicable regulations.

This finding can be made, in that the use of the property will be both residential and timber production, located within the SU/RA and TP zone districts, respectively, which are allowed uses in the respective zone districts. The proposed residential parcel configuration meets the minimum dimensional standards and setbacks for the zone district.

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4. That the site of the proposed subdivision is physically suitable for the type and density of development.

This finding can be made, in that the location of the proposed building envelopes is based upon the results of the geotechnical and engineering geology report recommendations. The proposed building envelopes are located away from identified earthquake fault zones and fault traces and are suitable for residential development. The identified building sites are properly configured to allow development in compliance with the required site standards and to optimize solar orientation. A Rural Density Matrix was performed for the site using specific criteria to establish minimum parcel sizes based on physical development hazards or constraints present, the existence of natural resources to be protected as well as the adequacy of access and available infrastructure. The proposed parcel sizes are consistent with the results of the Rural Matrix (Attachment to Exhibit E). No additional environmental constraints exist which would be adversely impacted by the proposed development.

5. That the design of the proposed subdivision or type of improvement will not cause substantial environmental damage nor substantially and avoidable injure fish or wildlife or their habitat.

This finding can be made in that, while habitat for special-status species (San Francisco dusky-footed woodrat) has been identified on the site, no development is proposed in the vicinity of the habitat. Additionally, mitigation measures have been recommended by the project biologist and have been incorporated into the project conditions of approval. Mitigation measures include a survey by the project biologist prior to any site construction, relocation of any nest that is discovered during the survey, and a requirement to obtain a scientific collection permit from the California Department of Fish and Game. The project has a received a Mitigated Negative Declaration pursuant to the California Environmental Quality Act. Implementation of the required mitigation measures will ensure that the proposed development does not cause any significant impact to special status species.

Additional project conditions limit the use of exterior lighting in order to avoid disturbance to other wildlife in the vicinity of the proposed development.

6. That the proposed subdivision or type of improvements will not cause serious public health problems.

This finding can be made in that the lot has been evaluated and given preliminary approval for the development of private wells and sewage treatment system to serve the seven proposed building sites,

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7. That the design of the proposed subdivision or type of improvements will not conflict with easements, acquired by the public at large, for access through, or use of property within the proposed subdivision.

This finding can be made in that no known easements encumber the parcel.

8. The design of the proposed subdivision provides, to the extent feasible, for future passive or natural heating or cooling opportunities.

This finding can be made, in that the proposed new building sites are oriented to the fullest extent possible in a manner to take advantage of solar opportunities and the project is conditioned to require the future dwelling to be constructed to maximize the southwest exposure to the greatest extent practicable.

9. The proposed development project is consistent with the design standards and guidelines (Section 13.11.070 through 13.11.076) and any other applicable requirements of this chapter.

This finding can be made in that the proposed rural subdivision provides an appropriate site design that is consistent with surrounding developments. The proposed lots are oriented in such a way as to take advantage of the site amenities, features and surrounding topography as well as maximizing solar opportunities. Existing mature vegetation is being retained to the greatest extent feasible and the future building construction is required to incorporate low and moderate water use native plants in all landscaping in order to minimize the impacts of future construction on private views and on the surrounding natural setting.

Preliminary Design Guidelines for the rural subdivision were submitted for review and include provisions for site and individual lot landscaping, fencing and wall design, home design, open space, fire prevention and water and sewage disposal. Final Design Guidelines are required to be submitted for review and approval prior to the issuance of any building permits.

The Design Guidelines will require future homes to be designed and oriented to optimize solar access, to be configured using staggered setbacks and to use natural materials and earth tones. Additional specifications require varied plate and ridge heights and the use of architectural features such as balconies, porches and roof elements to break up the mass of the homes.

The Design Guidelines will be included in the CC&Rs of the Home Owner's Association created for the subdivision, in order to ensure compliance.

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Conditions of Approval

Land Division Permit 10-0096

Applicant: Jim Weaver c/o Pacific Rim Planning Group

Property Owner: Alta Vista Ocean Estates

Assessor's Parcel Number: 107-011-06

Property Address and Location: No situs, located on the east and west side of Enos Lane, about 1/2 mile west of the intersection with Rider Road.

Planning Area: Aptos Hills/Eureka Canyon

Exhibit A: Civil Drawings (19 Sheets) prepared by Joe L. Akers, dated 11/13/09, revised 12/28/10, Tentative Map (2 Sheets) prepared by Cary Edmundson & Associates Land Surveying, dated 4/6/11, Geologic Suitability (1 Sheet), unnamed and undated, Access Road Feasibility (1 Sheet) prepared by Cary Edmundson & Associates, dated 8/25/09, Slope Analysis, prepared by Edmundson and Akers, dated 12/12/02

All correspondence and maps relating to this land division shall carry the land number noted above

- I. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
 - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
 - B. Pay the required fee to the Clerk of the Board of the County of Santa Cruz for posting the Mitigated Negative Declaration as required by the California Department of Fish and Game mitigation fees program.
- II. A Final Map for this land division must be recorded prior to the expiration of the Tentative Map and prior to sale, lease or financing of any new lots. The Final Map shall be submitted to the County Surveyor (Department of Public Works) for review and approval prior to recordation. No improvements, including, without limitation, grading and vegetation removal, shall be done prior to recording the Final Map unless such improvements are allowable on the parcel as a whole (prior to the approval of the land division). The Final Map shall meet the following requirements:

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A. The Final Map shall be in general conformance with the approved Tentative Map and shall conform to the conditions contained herein. All other State and County laws relating to improvements of the property, or affecting public health and safety shall remain fully applicable.

- B. This land division shall result in no more than seven (7) parcels and subdivision improvements, including a new 40-foot wide right-of-way. A statement shall be added to clearly state that all structures shall be located within the designated geologic building envelopes.
- C. The minimum aggregate parcel size shall be 25 acres of net developable land per unit. A note shall be added to the map that clearly indicates that 114.27 acres of net developable land from Lot 1 has been applied to the creation of Lots 2-7, and Lot 1 cannot be further subdivided.
- D. The following items shall be shown on the Final Map:
 - 1. Geologic building envelopes, common area and/or building setback lines, located according to the approved Tentative Map. The building envelopes shall meet the minimum setbacks for the SU (Special Use) and/or RA (Residential Agriculture) zone district of 40 feet for the front yard, 20 feet for the side yards, and 20 feet for the rear yard. Building envelopes shall not include land with slopes exceeding 30%.
 - 2. Show the net developable land area of each lot to nearest square foot.
 - 3. A statement shall be added to clearly state that all structures must be located within the designated geologic building envelopes.
 - 4. Clearly show the location and description of all easements and rights-of-way. All easements and dedications to be recorded prior to recordation of the Final Map.
- E. The following requirements shall be noted on the Final Map as items to be completed prior to obtaining a building permit or grading permit on new building envelopes created by this land division.
 - 1. New parcel numbers for all of the parcels must be assigned by the Assessors Office prior to application for a Building Permit on any parcel created by this land division.
 - 2. All existing private wells, and any new proposed wells shall be reviewed by the County Department of Environmental Health Services.

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3. The proposed septic systems for each lot shall be reviewed by the County Department of Environmental Health Services.

- 4. All future construction on the lots shall conform to the approved Design Guidelines for the subdivision.
- 5. The primary access roads and driveways shall be surfaced with all-weather materials and shall meet the following requirements:
 - a. Roads shall be widened to a minimum of 12 feet in width with turnouts every 500 feet.
- 6. The secondary access road shall be surfaced with all-weather materials and shall be improved with rolling dips and/or berms in order to facilitate adequate drainage.
- 7. Prior to any building permit issuance, submit a plan to recycle and/or reuse excess post-construction material for review and approval by Planning Department staff.
- 8. Prior to any building permit issuance or ground disturbance, a detailed grading, drainage, and erosion control plan shall be reviewed and approved by the Planning Department.
 - a. The grading and drainage plan shall be completed by a licensed civil engineer or architect, and a grading permit shall be obtained.
 - b. The grading plan shall include all earthwork required to widen existing primary and secondary access roads in order to meet Calfire standards...
 - c. The erosion control plans shall identify the type of erosion control practices to be used and shall include the following:
 - i. An effective sediment barrier placed along the perimeter of the disturbance area and maintenance of the barrier.
 - ii. Spoils management that prevents loose material from clearing, excavation and other activities from entering any drainage channel.
 - iii. A rocked entrance to the construction area to prevent tracking of sediment onto the roadway south of the project site.
- 9. Submit 3 copies of a site-specific Geology Report, prepared and stamped by a licensed Engineering Geologist with each building application.

- 10. Submit 3 copies of a plan review letter from the project geotechnical engineer with each building/permit application. The authors of the accepted reports (or update letters) shall write the plan review and/or update letters.
 - Each plan review letter shall state that the project plans conform to the report's recommendations.
- 11. Submit a written statement signed by an authorized representative of the school district in which the project is located, confirming payment in full of all applicable developer fees and other requirements lawfully imposed by the school district in which the project is located.
- 12. Meet all requirements of the Santa Cruz County Department of Public Works, Road Engineering Section.
- 13. Prior to site disturbance, a qualified biologist shall survey the disturbance area for active dusky-footed woodrat nests. Any active nests that can be retained in place shall be fenced creating a 25-foot buffer for the duration of the project to ensure no disturbance of the nest area. The biologist shall be present for all vegetation removal. If, during the course of vegetation removal or during the pre-disturbance surveys, a nest is found that must be moved, the application shall follow the following measures to ensure no take of woodrats occurs:
 - a. Prior to nest disturbance, the biologist shall obtain from the California Department of Fish & Game (CDFG) a scientific collection permit for the trapping of the dusky-footed woodrats.
 - b. Nests shall be disturbed and/or dismantled only during the non-breeding season, between October 1 and December 31.
 - c. At least two weeks prior to construction, the qualified biologist shall survey the project disturbance area to confirm the woodrat nest location and locate any other nests that may have been built in the project vicinity that may be affected by the proposed development.
 - d. Prior to nest disturbance, woodrats shall be trapped at dusk of the night set for relocation of the nest(s).
 - e. Any existing nest that may be disturbed by construction activities shall be mostly dismantled and the material spread in the vicinity of identified nest relocation site(s).

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- f. In order to avoid the potential health effects associated with handling rodents and their milieu, all workers involved in the handling of the woodrats or the nest materials should wear protective gear to prevent inhalation of contaminated particulates, contact with conjunctiva (eyes), and protection against flea bites; a respirator, eye protection and skin protection should all be used.
- g. Dismantling shall be done by hand, allowing any animals not trapped to escape either along existing woodrat trails or toward other available habitat.
- h. If a litter of young is found or suspected, nest material shall be replaced, and the nest left alone for 2-3 weeks before a recheck to verify that young are capable of independent survival before proceeding with nest dismantling.
- i. Woody debris shall be collected from the area and relocated nests shall be partially constructed in an area determined by the qualified biologist to be both suitable for the woodrats and far enough away from the construction activities that they will not be impacted.
- j. Woodrats that were collected at dusk shall be released 2 hours before dawn near the newly constructed nests to allow time for woodrats to find refuge.
- k. Once construction of the roadway is complete,, the biologist shall survey the nest area to note whether the new nests are in use, the woodrats have built new nests, or the nest area has been completely abandoned. This information shall be submitted in a letter report to the Environmental Planning Section of the Planning Department, and the local CDFG biologist.
- 14. Any changes between the Final Map and the approved Tentative Map must be submitted for review and approval by the Planning Department.
- Ill. Prior to recordation of the Final Map, the following requirements shall be met:
 - A. Submit a letter of certification from the Tax Collector's Office that there are no outstanding tax liabilities affecting the subject parcel.
 - B. Meet all requirements of the Santa Cruz County Department of Public Works, Stormwater Management Section, including the following:
 - 1. Provide maintenance requirements and identify responsible party for the percolation trench and bio-swales, both on the plans and in a recorded maintenance agreement.

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- 2. Provide a final geotechnical review letter, which refers to final dated plans/map and states that the design infiltration rate used is reasonable given the location.
- 3. Construction activity resulting in land disturbance of one acre or more, or less than one acre but part of a larger common plan of development or sale must obtain the Construction Activities Storm Water General NPDES Permit from the State Water Resources Control Board. Construction activity includes clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement.
- 4. Please note that any additional impervious area or drainage disturbances on individual lots will be required to maintain predevelopment runoff rates for a range of storms.
- C. All requirements of the Calfire (County Fire Department) Protection District shall be met.
- D. Provide a final geotechnical and geologic plan review letter. One shall be prepared by the project geotechnical engineer and one shall be prepared by the project engineering geologist. The authors of the accepted reports shall write the plan review letters. Each plan review letter shall state that the project plans conform to the report recommendations. The geology plan review letter shall approve the location of the proposed septic system and storm water dissipation area with regards to slope stability. Please note: reports, update letters and plan review letters expire after three years.
- E. Pay all required fees and meet all requirements of the County Environmental Health Services Division.
- F. Park dedication in-lieu fees shall be paid for twenty-one (21) bedrooms for the seven identified residential building sites. These fees are currently \$578 per bedroom, but are subject to change.
- G. Child Care in-lieu fees shall be paid for twenty-one (21) bedrooms for the seven identified residential building sites. These fees are currently \$109 per bedroom, but are subject to change.
- H. Drainage impact fees for common improvements will be assessed on the net increase in impervious area. The fees are currently \$1.06 per square foot and shall be assessed with the improvement plans.
- I. Enter into a Certification and Participation Agreement with the County of Santa Cruz to meet the Affordable Housing Requirements specified by Chapter 17.10 of the County code. This agreement must include the following statements:

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

a. The developer shall pay in-lieu fees for the fractional equivalent of 1.05 units in accordance with the regulations and formulas as specified by Chapter 17.10 of the County Code. These fees are calculated as 1.05 of the average purchase price of the market-rate units.

- J. A Declaration of Geologic Hazards must be recorded with the project. The declaration will be developed by the County Geologist at the time of recordation of the final map.
- K. A Homeowner's Association (HOA) shall be formed for maintenance of all private roads and other areas under common ownership. CC&Rs shall be furnished to the Planning Department and shall include the Design Guidelines, as approved by Planning Department staff.
- IV. All future construction within the property shall meet the following conditions:
 - A. Prior to any disturbance, the owner/applicant shall organize a pre-construction meeting on the site. The applicant, grading contractor, project geotechnical engineer and Environmental Planning staff shall participate.
 - B. All work adjacent to or within a County road shall be subject to the provisions of Chapter 9.70 of the County Code, including obtaining an encroachment permit where required. Where feasible, all improvements adjacent to or affecting a County road shall be coordinated with any planned County-sponsored construction on that road.
 - C. No land clearing, grading or excavation shall take place between October 15 and April 15, unless otherwise approved under separate permit.
 - D. No land disturbance shall take place prior to issuance of building permits, except the minimum required to install required improvements, provide access for County-required tests or to carry out work required by another of these conditions.
 - E. The use of new impervious surfaces shall be minimized to the greatest extent feasible.
 - F. An exterior lighting plan shall be submitted for review and approval by the Planning Department prior to building permit issuance which shows: all exterior lighting directed away from wooded areas and adjacent properties; light sources shielded by landscaping, fixture design or other physical means; and all exterior lighting utilizing high-pressure sodium vapor, metal halide, fluorescent, or equivalent energy-efficient fixtures.
 - G. A Road Maintenance Association shall be established for the newly created primary and existing secondary access roads and supporting documentation shall be submitted to the Planning Department. Alternatively a CSA may be established with the

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

County. The Association shall include all properties served by the access road.

- H. Pursuant to Sections 16.40.040 and 16.42.100 of the County Code, if at any time during site preparation, excavation, or any other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.100 shall be observed.
- I. Construction of improvements shall comply with all requirements of the geotechnical report and associated update letters. The geotechnical engineer shall inspect the completed project and certify in writing that the improvements have been constructed in conformance with the recommendations made in the geotechnical report.
- J. All future development shall comply with the requirements of the Drainage Section of the Department of Public Works, per comments made pursuant to this land division application.
- K. All required land division improvements shall be installed and inspected prior to final inspection clearance for any new structure on the subject parcel
- L. All structures, including water tanks, shall be contained within the approved building envelopes, unless authorized by the project geologist.
- M. All outdoor lighting shall be directed downwards and shall utilize low rise light standards and be directed away from adjacent properties.
- N. New utility and service lines shall be installed underground.
- O. All mature trees (greater than 20 inches diameter breast height) shall be retained. In the event that such trees require removal due to disease, each shall be replaced on a 1 to 1 ratio. Replacement tree species to be approved by Planning Department prior to planting.
- P. Prior to any residential construction, the final Design Guidelines for the Alta Vista Ocean View Estates Subdivision must be submitted to Planning Department staff for review and approval.
 - 1. All residential construction and landscaping must conform to the provisions of the approved Design Guidelines for the subdivision.
 - 2. The Design Guidelines must be incorporated in the CC&Rs for the subdivision.
- Q. All fencing shall be shown on site plans and shall comply with the County Code.

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

V. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.

- VII. As a condition of this development approval, the holder of this development approval ("Development Approval Holder"), is required to defend, indemnify, and hold harmless the COUNTY, its officers, employees, and agents, from and against any claim (including attorneys' fees), against the COUNTY, it officers, employees, and agents to attack, set aside, void, or annul this development approval of the COUNTY or any subsequent amendment of this development approval which is requested by the Development Approval Holder.
 - A. COUNTY shall promptly notify the Development Approval Holder of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. COUNTY shall cooperate fully in such defense. If COUNTY fails to notify the Development Approval Holder within sixty (60) days of any such claim, action, or proceeding, or fails to cooperate fully in the defense thereof, the Development Approval Holder shall not thereafter be responsible to defend, indemnify, or hold harmless the COUNTY if such failure to notify or cooperate was significantly prejudicial to the Development Approval Holder.
 - B. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
 - 1. COUNTY bears its own attorney's fees and costs; and
 - 2. COUNTY defends the action in good faith.
 - C. <u>Settlement</u>. The Development Approval Holder shall not be required to pay or perform any settlement unless such Development Approval Holder has approved the settlement. When representing the County, the Development Approval Holder shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the County.
 - D. <u>Successors Bound</u>. "Development Approval Holder" shall include the applicant and the successor'(s) in interest, transferee(s), and assignee(s) of the applicant.
 - E. Within 30 days of issuance of this development approval, the Development Approval Holder shall record in the office of the Santa Cruz County Recorder an agreement, which incorporates the provisions of this condition, or this development approval shall become null and void.

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

VIII. Mitigation Monitoring Program: The mitigation measures listed under this heading have been incorporated in the conditions of approval for this project in order to mitigate or avoid significant effects on the environment. As required by Section 21081.6 of the California Public Resources Code, a monitoring and reporting program for the above mitigation is hereby adopted as a condition of approval for this project. This program is specifically described following each mitigation measure listed below. The purpose of this monitoring is to ensure compliance with the environmental mitigations during project implementation and operation. Failure to comply with the conditions of approval, including the terms of the adopted monitoring program, may result in permit revocation pursuant to Section 18.10.462 of the Santa Cruz County Code.

A. Mitigation Measure: <u>Biotic Resources</u> (Conditions IV.F)

Monitoring Program: In order to mitigate impacts of nighttime lighting on the adjacent woodland habitat, the applicant or property owner shall submit an exterior lighting plan for review and approval by the Planning Department prior to building permit issuance which shows: all exterior lighting directed away from wooded areas and adjacent properties; light sources shielded by landscaping, fixture design or other physical means and all exterior lighting utilizing high-pressure sodium vapor, metal halide, fluorescent, or equivalent energy-efficient fixtures.

B. Mitigation Measure: Biotic Resources (Conditions II.E.12)

Monitoring Program: In order to mitigate impacts to San Francisco dusky-footed woodrat, prior to site disturbance, a qualified biologist shall survey the disturbance area for active dusky-footed woodrat nests. Any active nests that can be retained in place shall be fenced creating a 25-foot buffer for the duration of the project to ensure no disturbance of the nest area. The biologist shall be present for all vegetation removal if, during the course of vegetation removal or during the pre-disturbance surveys, a nest is found that must be moved, the application shall follow the following measures to ensure no take of woodrats occurs:

- 1. Prior to nest disturbance, the biologist shall obtain from the California Department of Fish & Game (CDFG) a scientific collection permit for the trapping of the dusky-footed woodrats.
- 2. Nests shall be disturbed and/or dismantled only during the non-breeding season, between October 1 and December 31.
- 3. At least two weeks prior to construction, the qualified biologist shall survey the project disturbance area to confirm the woodrat nest location and locate any other nests that may have been built in the project vicinity that may be affected by the proposed development.
- 4. Prior to nest disturbance, woodrats shall be trapped at dusk of the night set for relocation of the nest(s).

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

5. Any existing nest that may be disturbed by construction activities shall be mostly dismantled and the material spread in the vicinity of identified nest relocation site(s).

- 6. In order to avoid the potential health effects associated with handling rodents and their milieu, all workers involved in the handling of the woodrats or the nest materials should wear protective gear to prevent inhalation of contaminated particulates, contact with conjunctiva (eyes), and protection against flea bites; a respirator, eye protection and skin protection should all be used.
- 7. Dismantling shall be done by hand, allowing any animals not trapped to escape either along existing woodrat trails or toward other available habitat.
- 8. If a litter of young is found or suspected, nest material shall be replaced, and the nest left alone for 2-3 weeks before a recheck to verify that young are capable of independent survival before proceeding with nest dismantling.
- 9. Woody debris shall be collected from the area and relocated nests shall be partially constructed in an area determined by the qualified biologist to be both suitable for the woodrats and far enough away from the construction activities that they will not be impacted.
- 10. Woodrats that were collected at dusk shall be released 2 hours before dawn near the newly constructed nests to allow time for woodrats to find refuge.
- 11. Once construction of the roadway is complete,, the biologist shall survey the nest area to note whether the new nests are in use, the woodrats have built new nests, or the nest area has been completely abandoned. This information shall be submitted in a letter report to the Environmental Planning Section of the Planning Department, and the local CDFG biologist.
- C. Mitigation Measure: Utilities and Service Systems (Condition II.E.6)

Monitoring Program: In order to mitigate the impacts of temporary construction debris on regional landfills to less than significant, the applicant shall submit a plan to recycle and/or reuse excess post-construction materials, for review and approval by Planning Staff prior to building permit issuance. Implementation of this mitigation will maximize recycling and reuse of construction materials and will minimize contributions to the landfill.

Amendments to this land division approval shall be processed in accordance with chapter 18.10 of the County Code

Owner: Alta Vista Ocean View Estates Attn: Larry Stephens

This Tentative Map is approved subject to the above conditions and the attached map, and expires 24 months after the 14-day appeal period. The Final Map for this subdivision, including improvement plans, if required, should be submitted to the County Surveyor for checking at least 90 days prior to the expiration date and in no event later than 3 weeks prior to the expiration date.

Approval Date:	·····
Effective Date:	
Expiration Date:	
Cathy Graves	Robin Bolster-Grant
Principal Planner	Project Planner

Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Planning Commission, may appeal the act or determination to the Board of Supervisors in accordance with chapter 18.10 of the Santa Cruz County Code.

Planning Department

COUNTY OF SANTA CRUZ

MEMORANDUM

Date: June 29, 2011

To: Robin Bolster-Grant

From: Matthew Johnston, Environmental Coordinator

Re: Change in Project description for the Minor Land Division application #10-0069

After review of the previous CEQA initial study and mitigation monitoring and reporting plan for application 10-0069, the Environmental Coordinator has found that the changes that establish a building envelope in the 7th parcel proposed in application 10-0069 do not meet the definition of "substantial revision" as defined in section 15073.5.b of the CEQA guidelines.

The proposed changes are summarized below:

 Paragraph 1 on Page 5 reads: "The proposal is to divide a 305.83 acre parcel into 7 parcels ranging in size from 3.9 to 259 acres and to create six building envelopes. The remaining undeveloped parcel of approximately 270 acres (Lot 1) would be reserved for future timber harvests. Geologic building envelopes have been identified on the six residential parcels (lots 2-7) to protect against geologic hazards due to seismic events associated with the Zayante Fault zone."

This paragraph should read:

"The proposal is to divide a 305.83 acre parcel into 7 parcels ranging in size from 3.9 to 270 acres and to create seven building envelopes. Geologic building envelopes have been identified on the seven residential parcels to protect against geologic hazards due to seismic events associated with the Zayante Fault zone. Lot 1 would have a split zoning as a result of the land division, with the residential building envelope located entirely outside of the timbered portion of the lot."

- Paragraph 2 on the same page begins "The six developed parcels would take access via a newly constructed access road off of Telford Drive." Change to: "Six of the developed parcels (Lots 2-7) would take access via a newly constructed access road off of Telford Drive, while Lot 1 would take access directly from Telford Drive."
- Paragraph 3 reads: "...and to provide the six individual driveways for the residential lots."
 Change to: "...and to provide six individual driveways for residential lots 2-7. No grading is proposed on Lot 1."

- The last sentence on the page reads: "Each of the six residential lots will be served by individual wells and septic systems." Change six to "seven"
- Page 20, H-7 (top of the page) reads: "...however the construction of six additional single-family residences will not permanently impact through access." Change six to "seven"
- Page 21, I-3 reads: "The proposed project would result in seven parcels, six of which would be developed with a single-family dwelling." Change to "would result in seven single-family dwellings."
- Page 26, N-1: The proposed project would result in the development of six new single-family dwellings, which would potentially increase the use of an existing neighborhood or regional park or other recreational facilities; however, given the minimal increase in population associated with six single-family dwellings the additional impact would..." Change six to seven.
- Finally, Page 15, D-3 states: The timber resource on the non-residential parcel may only be harvested in accordance with California Department of Forestry timber harvest rules and regulations. Change to "The timber resource on Lot 1 may only be harvested in accordance with California Department of Forestry timber harvest rules and regulations."

The mitigations would not be affected by the changes.



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 KATHY MOLLOY PREVISICH, PLANNING DIRECTOR

ENVIRONMENTAL COORDINATOR NOTICE OF INTENT TO ADOPT A PROPOSED NEGATIVE DECLARATION

Pursuant to the California Environmental Quality Act, the following projects have been reviewed by the County Environmental Coordinator to determine if they have a potential to create significant impacts to the environment and, if so, how such impacts could be solved. A negative declaration has been prepared in cases where the project is determined not to have any significant environmental impacts. An environmental impact report (EIR) will be prepared for projects, which could have a significant impact.

Public review periods are provided for these environmental documents according to the requirements of the County Environmental Review Guidelines, depending upon whether State agency review is required or whether an EIR is required. The environmental documents are available for review at the County Planning Department at 701 Ocean Street, Santa Cruz. You may also view environmental documents on the web at www.sccoplanning.com under the Planning Department menu, Agendas link. If you have questions or comments about these determinations please contact Matt Johnston of the Environmental Review staff at (831) 454-3201

The County of Santa Cruz does not discriminate on the basis of disability, and no person shall, by reason of a disability, be denied the benefits of its services, programs or activities. If you require special assistance in order to review this information, please contact Bernice Romero at (831) 454-3137 (TDD number (831) 454-2123 or (831) 763-8123) to make arrangements.

1. 10-0069 NEAR TERMINUS OF TERFORD DR, CORRALITOS APN(S): 107-011-06

Proposal to divide an existing 305.83-acre parcel into 7 parcels ranging in size from 3.9 to 259 acres/square feet, grade approximately 3,894 cubic yards. Requires a Subdivision, Design Review, Preliminary Grading Approval, Soils and Geologic Report Review and Environmental Review. Project located on the east and west side of Enos Lane, about 1/2 mile west of the intersection with Rider Road. ZONE DISTRICT: RA (RESIDENTIAL AGRICULTURE, TP (TIMBER PRODUCTION, AND SU (SPECIAL USE)

APPLICANT: JIM WEAVER, PACIFIC RIM PLANNING GROUP

OWNER: ALTA VISTA OCEAN VIEW ESTATES

STAFF PLANNER: ROBIN BOLSTET-GRANT, 454-5357

EMAIL: PLN111@co.santa-cruz.ca.us

ACTION: Negative Declaration with mitigations REVIEW PERIOD: June 22, 2011 – July 22, 2011

This project will be considered at a public hearing by the Planning Commission. The time, date and location have not been set. When scheduling does occur, these items will be included in all public hearing notices for the project.

NAME:

Alta Vista Ocean View Estates

APPLICATION:

10-0069

A.P.N:

107-011-06

NEGATIVE DECLARATION MITIGATIONS

- 1. In order to mitigate impacts of nighttime lighting on the adjacent woodland habitat, the applicant or property owner shall submit an exterior lighting plan for review and approval by the Planning Department prior to building permit issuance which shows: all exterior lighting directed away from wooded areas and adjacent properties; light sources shielded by landscaping, fixture design or other physical means; and all exterior lighting utilizing high-pressure sodium vapor, metal halide, fluorescent, or equivalent energy-efficient fixtures.
- 2. In order to mitigate impacts to Dusky-footed woodrats, prior to site disturbance, a qualified biologist shall survey the disturbance area for active woodrat nests. Any active nests that can be retained in place shall be fenced creating a 25-foot buffer for the duration of the project to ensure no disturbance of the nest area. The biologist shall be present for all vegetation removal. If, during the course of vegetation removal or during the pre-disturbance surveys, a nest is found that must be moved, the applicant shall follow the following measures to ensure no take of woodrats is allowed:
 - a. Prior to nest disturbance, the biologist shall obtain from CDFG a scientific collection permit for the trapping of the dusky-footed woodrats.
 - b. Nests shall be disturbed/dismantled only during the non-breeding season, between October 1 and December 31.
 - c. At least two weeks prior to construction, the qualified biologist shall survey the project disturbance area to confirm the woodrat nest location and locate any other nests that may have been built in the project vicinity that may be affected by the proposed development.
 - d. Prior to nest disturbance, woodrats shall be trapped at dusk of the night set for relocation of the nest(s).
 - e. Any existing nest that may be disturbed by construction activities shall be mostly dismantled and the material spread in the vicinity of identified nest relocation site(s).
 - f. In order to avoid the potential health effects associated with handling rodents and their milieu, all workers involved in the handling of the woodrats or the nest materials should wear protective gear to prevent inhalation of contaminant particulates, contact with conjunctiva (eyes), and protection against flea bites; a respirator, eye protection and skin protection should all be used.
 - g. Dismantling shall be done by hand, allowing any animals not trapped to escape either along existing woodrat trails or toward other available habitat.
 - h. If a litter of young is found or suspected, nest material shall be replaced,

and the nest left alone for 2-3 weeks before a recheck to verify that young are capable of independent survival before proceeding with nest dismantling.

i. Woody debris shall be collected from the area and relocated nests shall be partially constructed in an area determined by the qualified biologist to be both suitable for the woodrats and far enough away from the construction activities that they will not be impacted.

j. Woodrats that were collected at dusk shall be released 2 hours before dawn near the newly constructed nests to allow time for woodrats to find

refuge.

- k. Once construction of the roadway is complete, the biologist shall survey the nest area to note whether the new nests are in use, the woodrats have built new nests, or the nest area has been completely abandoned. This information shall be submitted in a letter report to the Environmental Planning Section of the Planning Department, and the local CDFG biologist.
- 3. In order to mitigate the impacts of temporary construction debris on regional landfills to less than significant, the applicant shall submit a plan to recycle and/or reuse excess post-construction materials, for review and approval by Planning Staff prior to building permit issuance. Implementation of this mitigation will maximize recycling and reuse of construction materials and will minimize contributions to the landfill.



County of Santa Cruz

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123

KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR

www.sccoplanning.com

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) ENVIRONMENTAL REVIEW INITIAL STUDY

·						
Date: June 13, 2011	Application Number: 10-0069					
Staff Planner: Robin Bolster-Grant						
I. OVERVIEW AND ENVIRONMENTAL DE	TERMINATION					
APPLICANT: Jim Weaver c/o Pacific Rim Planning Group	APN(s) : 107-011-06					
OWNER: Alta Vista Ocean View Estates	SUPERVISORAL DISTRICT: 2nd					
PROJECT LOCATION : East and west side of Enos Lane, about ½ mile west of the intersection with Rider Road.						
SUMMARY PROJECT DESCRIPTION : Proposal to divide an existing 305.83 acre parcel into 7 parcels ranging in size from 3.9 to 259 acres and to grade approximately 3,894 cubic yards of material.						
ENVIRONMENTAL FACTORS POTENTIALI potential environmental impacts are evaluated marked have been analyzed in greater detail	d in this Initial Study. Categories that are					
Geology/Soils	Noise					
Hydrology/Water Supply/Water Quality	Air Quality					
	Greenhouse Gas Emissions					
Agriculture and Forestry Resources	Public Services					
Mineral Resources	Recreation					
Visual Resources & Aesthetics	Utilities & Service Systems					
Cultural Resources	Land Use and Planning					
Hazards & Hazardous Materials	Population and Housing					
Transportation/Traffic	Mandatory Findings of Significance					

DISCRETIONARY APPROVAL(S) BEING CONSIDERED:						
	General Plan Amendment		Coastal Development Permit			
	Land Division	\boxtimes	Grading Permit			
	Rezoning		Riparian Exception			
	Development Permit		Other:			
NON	I-LOCAL APPROVALS					
Othe	er agencies that must issue permits or aut	thoriza	ations: None			
	ERMINATION: (To be completed by the he basis of this initial evaluation:	lead a	agency)			
	I find that the proposed project COULD I environment, and a NEGATIVE DECLAR	NOT I	nave a significant effect on the DN will be prepared.			
	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.					
	I find that the proposed project MAY have and an ENVIRONMENTAL IMPACT RE	re a si POR1	gnificant effect on the environment, is required.			
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.					
	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.					
	Matt Shi		6/15/11			
Matt	thew Johnston		Date			

Environmental Coordinator

II. BACKGROUND INFORMATION

EXISTING SITE CONDITIONS	
Parcel Size: 305.89 acres	action
Existing Land Use: Vacant land/timber produ	e channaral
Vegetation: Mixed evergreen forest, madrone	E, Chapparan √ 21 100%
Slope in area affected by project: \(\sum 0 - 30\% \)	SI = 100%
Nearby Watercourse: Unnamed ephemeral s	stream, Rider Creek (perennial)
Distance To: Rider Creek located along north	heastern parcer boundary, epherical
streams traverse northern portion of parcel. A	MI Watercourses located outside of
proposed development area.	
ENVIRONMENTAL RESOURCES AND CON	NSTRAINTS
Water Supply Watershed: Mapped	Fault Zone: Zayante Fault mapped
Water Supply Watershed. Wapped	within 1/4 mile of subject parcel; Geology
	Report submitted with recommendations
Groundwater Recharge: Portion mapped	Scenic Corridor: None mapped
Timber or Mineral: Portion mapped timber	Historic: None mapped
Agricultural Resource: N/A	Archaeology: Mapped; reconnaissance
righteanara rice earee.	completed with no resources found
Biologically Sensitive Habitat: None	Noise Constraint: None
mapped; potential habitat identified in field;	
Biotic Report submitted	
Fire Hazard: Portion mapped critical fire	Electric Power Lines: None
Floodplain: None mapped	Solar Access: Good access; mildly
•	sloping building sites with little tree cove
Erosion: Moderate to high potential	Solar Orientation: Northeast to
	southwest facing building envelopes
Landslide: No hazard identified within area	Hazardous Materials: None
of development	
Liquefaction: Low potential	
SERVICES	
Fire Protection: Calfire	Drainage District: Zone 7
School District: Pajaro Valley USD	Project Access: Telford Drive (private)
Sewage Disposal: Private septic systems	Water Supply: Private wells
Sewage Disposal. I fivate septic systems	rater supply the same
PLANNING POLICIES	
Zone District: RA (Residential Agriculture),	Special Designation: None
TP (Timber Production) and SU (Special	
Use)	
General Plan: R-M (Mountain Residential)	
Urban Services Line: Inside	Outside
Coastal Zone: Inside	Outside

ENVIRONMENTAL SETTING AND SURROUNDING LAND USES:

The subject property is a large vacant site located near the terminus of Telford Drive in the Corralitos area of Santa Cruz County. The parcel occupies the top and northeast flanks of the ridge located between Pleasant Valley and Rider Creek. The parcel is characterized by a level to moderate east-facing slope. The slopes within the proposed building envelopes are gentle. The proposed area of development is vegetated with open grassland, chaparral, interspersed with native and non-native conifers, oak and madrone. Surrounding parcels are developed with single family residences (south), and acreage designated for timber production.

Primary access to the site is via Telford Road, off of Enos Lane. The site is also developed with an existing secondary access road that extends north through the parcel and connects with Rider Road. Enos Lane ranges from 12 to 15 feet in width and does not currently meet the required Calfire standards. The project includes a provision for bringing the road up to current standards by providing emergency vehicle turnouts at 500 foot intervals.

The northern two-thirds of the parcel contain timber resources and this portion of the site is zoned for Timber Production (TP). A Timber Harvest Plan was prepared for the site in 1988.

The bulk of the development for the proposed subdivision is to be located on a broad ridge crest at the southern end of the property, where the terrain relief is gentle. Drainage of surface water from the development area at the ridge crest flows to the northeast toward Rider Creek and the southwest toward Pleasant Valley. A side hill swale on the northeastern flank appears to capture some flow, but the flow appears to dissipate to the northwest and southeast.

There is evidence of minor concentrated surface flow in the form of rills and gullies in various locations across the site, where the ground has been disturbed by past grading. No seeps, springs or any other evidence of high groundwater levels have been observed in the building envelope areas.

PROJECT BACKGROUND:

In 2007 the property obtained a rural matrix in order to determine the minimum lot size to facilitate a land division (Attachment 14). The matrix was revised in 2009 following receipt of a biotic assessment, which did not find suitable habitat for special status species on the property (Attachment 10). The revised matrix calculation resulted in a minimum average developable parcel size of 25 acres, thereby allowing seven parcels to be created.

DETAILED PROJECT DESCRIPTION:

The proposal is to divide a 305.83 acre parcel into 7 parcels ranging in size from 3.9 to 259 acres and to create six building envelopes. The remaining undeveloped parcel of approximately 270 acres (Lot 1) would be reserved for future timber harvests. Geologic building envelopes have been identified on the six residential parcels (lots 2-7) to protect against geologic hazards due to seismic events associated with the Zayante Fault zone, located 0.25 miles to the southwest.

The six developed parcels would take access via a newly constructed access road off of Telford Drive. There is an existing 12-18 foot secondary access road that extends northward through the site to Rider Road. The proposal includes improvements to Enos Lane in order to bring the road into compliance with Calfire standards. These improvements would add turnouts at approximate 500-foot intervals in those areas where the road does not meet the required 18-foot minimum width. In addition, the existing secondary access road would be improved to meet current fire protection district regulations. These improvements include minor grading for road widening, and the placement of rolling dips and berms for drainage.

The project includes approximately 3,144 cubic yards of excavation and 1,739 cubic yards of fill for the purposes of creating the new access road and to provide the six individual driveways for the residential lots.

Proposed drainage improvements include the construction of a bio-swale along the new access road, and a 190 foot long percolation trench at the terminus of the new access road. The bio-swale would outlet into six or seven energy dissipaters to maintain storm water runoff on site.

Each of the six residential lots will be served by individual wells and septic systems.

Less than
Significant
Potentially with
Significant Mitigation
Impact Incorporated

Less than Significant Impact

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M

No Impact

III. ENVIRONMENTAL REVIEW CHECKLIST

Seismic-related ground failure,

including liquefaction?

Landslides?

A. GEOLOGY AND SOILS

Would the project:

C.

D.

potei inclu	ose people or structures to ntial substantial adverse effects, ding the risk of loss, injury, or h involving:			
Α.	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			
В.	Strong seismic ground shaking?		\boxtimes	

Discussion (A through D): The project site is located outside of the limits of the State Alquist-Priolo Special Studies Zone (County of Santa Cruz GIS Mapping, California Division of Mines and Geology, 2001). However, the project site is located approximately 0.25 miles northeast of the Zayante fault zone, and approximately 1.8 miles southwest of the San Andreas fault zone. While the San Andreas fault is larger and considered more active, each fault is capable of generating moderate to severe ground shaking from a major earthquake. Consequently, large earthquakes can be expected in the future. The October 17, 1989 Loma Prieta earthquake (magnitude 7.1) was the second largest earthquake in central California history.

A geologic investigation for the project was prepared by Zinn Geology, dated October 2, 2009 and updated February 22, 2011 (Attachment 3), and a geotechnical investigation was prepared by Bauldry Engineering, Inc., dated January 7, 2010 (Attachment 5). These reports have been reviewed and accepted by the Environmental Planning Section of the Planning Department (Attachment 4). The geologic investigation found a "possible fault" trace of the Zayante fault that extends into the southwestern portion of the subject lot. The project geologist created a 100-foot wide buffer zone to either side of the fault trace to ensure that habitable structures

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

would be adequately setback from the faulting hazard. The geologic investigation concluded that ground cracking would be unlikely to affect the geologic building envelopes. To further ensure that the proposed development is not significantly impacted by geologic hazards, site-specific geologic investigations will be required as part of the project conditions of approval for individual home sites prior to building permit approval. Additionally, project conditions require the submittal and review of engineered grading and drainage plans prior to approval of any building permits. The drainage plans must demonstrate control of all storm water runoff and avoidance of concentrated runoff. The grading and drainage plans will be required to be reviewed and approved by both the project geologist and geotechnical engineer prior to building permit approval.

The geological investigation also noted shallow landsliding in the southwestern portion of the parcel. In addition, the geotechnical investigation included a slope stability analysis in order to corroborate the geologic building envelope and ensure that it adequately protects future development from geologic hazards associated with ground movement in this area. The project geologist concluded that there is low probability for landsliding within the proposed building envelopes.

Following the recommendations in the geologic and geotechnical reports referenced above, as well as the requirements included in the review letter prepared by Environmental Planning staff (Attachment 4) will serve to further reduce the potential risk of seismic shaking and landsliding to less than significant.

2.	Be located on a geologic unit or soil
	that is unstable, or that would become
	unstable as a result of the project, and
	potentially result in on- or off-site
	landslide, lateral spreading,
	subsidence, liquefaction, or collapse?

Discussion: The reports cited above concluded that there is a potential risk from adverse settlement adjacent to the proposed access road, co-seismic ground cracking, slope stability at the southwestern portion of the property, and cut/fill transition at proposed building pads. The recommendations contained in the geotechnical report: removal and recompaction of loose materials along the access road, employing structural mat or grid foundation systems, adhering to the geologic building envelopes and overexcavation and recompaction of building pads, will be implemented to reduce this potential hazard to a less than significant level. Additionally, all project conditions referenced in the report review letter prepared by the County Geologist (Attachment 4) will be required prior to any building permit issuance. Implementing these project conditions will reduce the potential risk of instability in the vicinity of the proposed development to less than significant.

CEQA Page 8	Environmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
3.	Develop land with a slope exceeding 30%?			\boxtimes		
Discussion: There are slopes that exceed 30% on the property; however, no improvements are proposed on or adjacent to these slopes.						
4.	Result in substantial soil erosion or the loss of topsoil?					
Discussion: Some potential for erosion exists during the construction phase of the project, however, this potential is minimal because erosion control measures such as the installation of silt fencing have been proposed as part of the project and no land clearing, grading or excavation would take place after October 15 th or prior to April 15 th . Prior to approval of a grading or building permit, the project must have an approved Erosion Control Plan, which will specify detailed erosion and sedimentation control measures. The plan will include provisions for disturbed areas to be planted with ground cover and to be maintained to minimize surface erosion.						
5.	Be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code (2007), creating substantial risks to life or property?					
Discussion : The geotechnical report for the project did not identify any elevated risk associated with expansive soils.						
6.	Place sewage disposal systems in areas dependent upon soils incapable of adequately supporting the use of septic tanks, leach fields, or alternative waste water disposal systems where sewers are not available?					
Cou	ussion : The proposed project would use nty Environmental Health Services has de opriate to support such a system.	an onsite termined	sewage dis that site co	sposal sys nditions a	stem, and re	
7.	Result in coastal cliff erosion?				\boxtimes	
Discussion : The proposed project is not located in the vicinity of a coastal cliff or bluff; and therefore, would not contribute to coastal cliff erosion.						

CEQA Page S	Environmental Review Initial Study 9	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	YDROLOGY, WATER SUPPLY, AND WA	ATER QUA	ALITY		
1.	Place development within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
Natio	<i>ussion</i> : According to the Federal Emerge onal Flood Insurance Rate Map, dated Mai within a 100-year flood hazard area.	ncy Manag ch 2, 2006	gement Ag 6, no portio	ency (FEM n of the pr	IA) oject site
2.	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
Natio	russion: According to the Federal Emerge onal Flood Insurance Rate Map, dated Ma within a 100-year flood hazard area.	ncy Mana rch 2, 200	gement Ag 6, no portic	ency (FEN on of the pi	MA) roject site
3.	Be inundated by a seiche, tsunami, or mudflow?				
<i>Disc</i> vicin	cussion: This is not applicable because the ity of an ocean bluff.	e subject _l	parcel is no	it located i	n the
4.	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the				

Discussion: The project would rely on private wells for water supply. The pump tests and well locations have been reviewed and approved by County Environmental Health Services as appropriate for the area. The southwestern portion of the subject parcel is located within a mapped groundwater recharge area. The project drainage improvements include a bio-swale that runs along the southwesterly side of the access road. The bio-swale collects the adjacent upslope area runoff and releases to seven energy dissipaters below the road. The individual lots would be designed with separate individual storage and outlets separate from the road system. Drainage Calculations were prepared by Joe L. Akers, dated February 24, 2010 (Attachment 9) and the report

production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits

have been granted)?

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indicates that the post-development runoff rate will not exceed the existing predevelopment rate. The Drainage Section of the Department of Public Works has reviewed and accepted the Drainage Calculations and will review the drainage facilities for the individual lots prior to issuance of any building permits.

The proposed storm water runoff storage and outlet system will ensure that the increase in impervious surfaces represented by the project will not significantly impact groundwater supplies or interfere with groundwater recharge. \bowtie Substantially degrade a public or 5. private water supply? (Including the contribution of urban contaminants, nutrient enrichments, or other agricultural chemicals or seawater intrusion). Discussion: The project would not discharge runoff either directly or indirectly into a public or private water supply. However, runoff from this project may contain small amounts of chemicals and other household contaminants. No commercial or industrial activities are proposed that would contribute contaminants. Potential siltation from the proposed project will be addressed through implementation of erosion control measures Degrade septic system functioning? 6. Discussion: There is no indication that existing septic systems in the vicinity would be affected by the project. Substantially alter the existing 7. drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding, on- or off-site?

Discussion: The proposed area of development is not located near any watercourses, and would not alter the existing overall drainage pattern of the site. In addition to the project drainage improvements discussed in Section B-4 above, a 160 foot wide percolation trench would be constructed at the terminus of the proposed access road. The overall drainage system is designed to ensure that storm water runoff be retained on site and allowed to percolate back into the groundwater without significantly altering the existing drainage patterns. Department of Public Works Drainage Section staff has reviewed and approved the proposed drainage plan.

CEQA E Page 11	invironmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
8.	Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems, or provide substantial additional sources of polluted runoff?				
2010, Depar the prostorm. feet the creek. The ruthe roadetern draina	have been reviewed for potential drainage timent of Public Works (DPW) Drainage Supposed runoff storage system is adequate. The overflow from the storage system with rough a forested area before it reaches follows should not be significantly impacted unoff rate from the property would be contained that existing storm water facilities are associated with the project. Refer to minants and/or other polluting runoff.	e impacts Section sta e to captur ill flow ove Rider Cree d by the pr trolled by a inus of the are adequa	and accep ff. The cal fe runoff us frland appr k. Therefor oposed roa a proposed road. DP tte to hand	culations: sing a 25-y oximately re downstr ad improve I bio-swale W staff ha le the incre	show that year 3,000 ream ements. e along ve ease in
9.	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
and a adequ	ussion: The proposal includes storm water pproved by Department of Public Works uately control storm water and to mitigate to less than a significant level.	staff with r	espect to t	neir adiiity	10
10.	Otherwise substantially degrade water quality?				
that th	ussion: The Department of Public Workship proposed project would not substantian by the preliminary plans for site improvements along the proposed access roads.	illy degrad ents which	e water qu would incl	ude the bi	o-swale to
	IOLOGICAL RESOURCES d the project:				
1.	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish				

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and Game, or U.S. Fish and Wildlife Service?

Discussion: According to the California Natural Diversity Data Base (CNDDB) maintained by the California Department of Fish and Game, there are no known special status plants or animal species in the site vicinity. However, two Biotic Report have been prepared for this project to evaluate the site for potential special status species and/or protected habitat. One study, performed by EcoSystems West, dated December 4, 2008 (Attachment 10) determined that no habitat existed in the vicinity of the proposed development. This report was reviewed and accepted by the Planning Department Environmental Section (Attachment 11). Following a site visit by Environmental Planning staff in 2010, potential San Francisco dusky-footed woodrat habitat was identified on the property and a Woodrat Survey was performed by Dana Bland & Associates, dated July 26, 2010 (Attachment 12). This woodrat species is listed as a California Species of Special Concern. The 2010 survey identified one woodrat house along the eastern edge of Lot 7. Recommendations made in the woodrat survey include establishing a 25-foot buffer around identified woodrat houses during site improvement and vegetation removal, and requiring a qualified biologist monitor the removal of thick vegetation areas and requiring construction of replacement woodrat houses in the event that an existing house is encountered. Implementing these measures, which will be included as required project conditions, will minimize any potential impacts of proposed development to the San Francisco dusky-footed woodrat.

2.	Have a substantial adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, regulations (e.g., wetland, native grassland, special forests, intertidal zone, etc.) or by the California Department of Fish				
	and Game or U.S. Fish and Wildlife Service?				
or d	cussion: While the parcel contains potential esignated sensitive biotic communities on o	l riparian l r adjacent	habitat ther to the are	e are no m a proposed	napped I for

development.

3. Interfere substantially with the movement of any native resident or

movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native or migratory wildlife nursery sites?

Discussion: The proposed project does not involve any activities that would interfere

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with the movements or migrations of fish or wildlife, or impede use of a known wildlife nursery site.

4.	Produce nighttime lighting that would substantially illuminate wildlife		
	habitats?		

Discussion: The subject property is located in rural area and is adjacent to areas which could be adversely affected by a new or additional source of light that is not adequately deflected or minimized. A condition of project approval would require the applicant or property owner to submit an exterior lighting plan for review and approval by the Planning Department prior to building permit issuance which shows: all exterior lighting directed away from wooded areas and adjacent properties; light sources shielded by landscaping, fixture design or other physical means; and all exterior lighting utilizing high-pressure sodium vapor, metal halide, fluorescent, or equivalent energy-efficient fixtures.

5.	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to		
	marsh, vernal pool, coastal, etc.)		
	through direct removal, filling,		
	hydrological interruption, or other		
	means?		

Discussion: There are no mapped wetlands or observed wetlands on the subject parcel.

		٢٦٦	∇
6.	Conflict with any local policies or	. \square	
	ordinances protecting biological		
	resources (such as the Sensitive		
	Habitat Ordinance, Riparian and		
	Wetland Protection Ordinance, and the		
	Significant Tree Protection		
	Ordinance)?		

Discussion: County Environmental Planning staff has determined that there are no protected biological resources on the parcel and the project would not conflict with any local policies or ordinances protecting biological resources.

		[]	abla
7.	Conflict with the provisions of an		\vee
	adopted Habitat Conservation Plan,		
	Natural Community Conservation		
	Plan, or other approved local, regional,		
	or state habitat conservation plan?		

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Discussion: The proposed project would not conflict with the provisions of any adopted Habitat Conservation Plan Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, no impact would occur.

D. AGRICULTURE AND FOREST RESOURCES

agricultural use, or a Williamson Act

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

1.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
Farr map Cali Loca Stat	cussion: The project site does not contain mland, Unique Farmland, or Farmland of os prepared pursuant to the Farmland Ma ifornia Resources Agency. In addition, the al Importance. Therefore, no Prime Farm tewide or Farmland of Local Importance of No impact would occur from project imp	Statewide Im apping and Me e project does aland, Unique would be con	onitoring F onitoring F onot conta Farmland verted to a	as snown o Program of ain Farmlar , Farmland	ine nd of of
2.	Conflict with existing zoning for				\boxtimes

Discussion: The project site is zoned Timber Production, Special Use and Residential Agriculture, which are not considered to be agricultural zone districts. Additionally, the project site's land is not under a Williamson Act Contract. Therefore, the project does not conflict with existing zoning for agricultural use, or a Williamson Act Contract. No impact is anticipated.

contract?

CEQA E Page 15	Environmental Review Initial Study 5	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
3.	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				
Resource a new be fra Production proposed and time proposed mana may command the command of the	urce and zoned for Timber Production. The parcel that contains all mapped timber regmented among separate parcels. Accordation Compatibility performed by the projested development is expected to have a nember management activities on the Timber sed parcel configuration, which ensures considered and residential uses. The timber only be harvested in accordance with Califist rules and regulations.	ne propose sources; ding to the ect Registe in egligible in er Product ompatibili resource	ed land divious therefore the Assessme ered Forest mpact on the ion-zoned per the the non-the	sion would be resource and of Timber (Exhibited timber of timber o	d create te will not per it 15) the resources en the
4.	Result in the loss of forest land or conversion of forest land to non-forest use?			\boxtimes	
propo and the	ussion: The Forester's Assessment refersed development does not remove significant the subdivision is not expected to have erty's timber production capabilities. No entining timber production-zoned parcel would	cant coming any mean croachme	mercial timb surable iment of reside	per from p pact on the ential use:	roduction ie
5.	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use?				
appro would impac	ussion: A parcel containing mapped Agrical eximately 1/4 mile southeast of the project of change the environment or extend any rect agricultural resources in the vicinity of the project.	site. No d oads or o	evelopmen ther facilitie	it is propo es such th	at is would

CEQA Page 1	Environmental Review Initial Study 6	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	INERAL RESOURCES d the project:				
1.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
value	ussion: The site does not contain any kne to the region and the residents of the star project implementation.	own minei te. Theref	ral resource fore, no imp	es that wo pact is ant	uld be of icipated
2.	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				
Prod Zone Over availa (extra	ussion: The project site is zoned RA (Resuction) and SU (Special Use), which are ness (M-3) nor does it have a Land Use Desilay (Q) (County of Santa Cruz 1994). The ability of a known mineral resource of local action) site delineated on a local general product as a result of this project.	not conside gnation wi erefore, no ally importa	ered to be be th a Quarry potentially ant mineral	extractive Designatesignatesignificar resource	Use tion It loss of recovery
	ISUAL RESOURCES AND AESTHETICS	S			
1.	Have an adverse effect on a scenic vista?				
desig	ussion: The project would not directly impossible in the County's General Plan (1994) at resources.	pact any p 4), or obst	ublic sceni ruct any pu	c resource blic views	es, as of these
2.	Substantially damage scenic resources, within a designated scenic corridor or public view shed area including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
publ	eussion: The project site is not located ald ic viewshed area, scenic corridor, within a not a state scenic highway. Therefore, no i	i designate	ed scenic re	ited sceni esource ai	c road, rea, or

CEQA E Page 17	Environmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact			
3.	Substantially degrade the existing visual character or quality of the site and its surroundings, including substantial change in topography or ground surface relief features, and/or development on a ridgeline?							
Discussion: The existing visual setting is largely rural, with newly developed single-family residences immediately to the south of the project site. Additionally, over 270 of the existing 305 acres are proposed to be maintained as undeveloped timber land. The proposed project is designed and landscaped so as to fit into the rural setting, including incorporating landscaping along both the proposed access road and individual driveways to screen the developed areas from surrounding properties. All landscaping is also proposed to consist of drought-tolerant native species. The residences are proposed to be staggered to avoid a linear feel to the front of the subdivision and will utilize natural materials and earth tone colors to further minimize the impact on the existing visual character of the project setting.								
4.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?							
the vi poten adjac physi	Discussion: The project would contribute an incremental amount of night lighting to the visual environment. However, the following project conditions will reduce this potential impact to a less than significant level: all exterior lighting directed away from adjacent properties; light sources shielded by landscaping, fixture design or other physical means; and all exterior lighting utilizing high-pressure sodium vapor, metal halide, fluorescent, or equivalent energy-efficient fixtures.							
	ULTURAL RESOURCES d the project:							
1.	Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5?							
<i>Disc</i> histor	ussion: The existing structure(s) on the price resource on any federal, state or local	property is, inventory.	are not des	signated a	is a			
2.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?							
Disc Purs	Discussion: No archeological resources have been identified in the project area. Pursuant to County Code Section 16.40.040, if at any time in the preparation for or							

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Less than Significant Impact

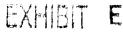
No Impact

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process of excavating or otherwise disturbing the ground, any human remains of any age, or any artifact or other evidence of a Native American cultural site which reasonably appears to exceed 100 years of age are discovered, the responsible persons shall immediately cease and desist from all further site excavation and comply

with	the notification procedures given in County	Code Cha	pter 16.40	.040.	
3.	Disturb any human remains, including those interred outside of formal cemeteries?				
time this p ceas Plan full a Calif signi	during site preparation, excavation, or other oroject, human remains are discovered, there and desist from all further site excavation ning Director. If the coroner determines the archeological report shall be prepared and resource of the archeological resource is deferred the resource on the site are established.	er ground de responsible and notify at the remainder some some some some some some some some	listurbance ble persons the sherifains are no tives of the hall not res	e associate s shall imm f-coroner a et of recent e local Nativ sume until t	d with ediately ind the origin, a ve he
4.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
Disc beer	eussion: No unique paleontological resource identified within the proposed disturbance	ces, sites, e area.	or geologic	cal features	have
	IAZARDS AND HAZARDOUS MATERIAL IIId the project:	.S			
1.	Create a significant hazard to the public or the environment as a result of the routine transport, use or disposal of hazardous materials?				
part	cussion: No hazardous materials would be of the land division or resulting single-family before there is no impact.	transporte ly dwelling	ed, used, o constructi	r disposed on and use	as a
2.	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the				

Discussion: Construction of the site improvements and future single-family residences would not involve the release of hazardous materials into the environment which would



environment?

release of hazardous materials into the

Page 19	Environmental Review Initial Study 9 e a significant hazard to the public or envir	Potentially Significant Impact Onment; th	Less than Significant with Mitigation Incorporated Derefore the	Less than Significant Impact EFE IS NO II	No Impact mpact.		
3.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?						
Discussion: The site is not located within one quarter mile of an existing or proposed school and there are no hazardous emissions, hazardous materials, substances, or waste that would be associated with the proposed land division and improvements. Therefore there is no impact. See Section H-1 regarding recycling of paint and other construction materials.							
4.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?						
<i>Disc</i> in Sa	ussion: The project site is not included or nta Cruz County compiled pursuant to the	the April specified	8, 2011 list code	of hazard	dous sites		
5.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?						
<i>Disc</i> miles	Discussion: The parcel is not located within an airport land use plan or within two miles of a public or public use airport; therefore there is no impact.						

Discussion: The parcel is not located within the vicinity of a private airstrip; therefore there is no impact.

For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

6.

 \boxtimes

CEQA : Page 2	Environmental Review Initial Study 0	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
7.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
Emer not de deteri road t perfoi const	gency Management Plan (April 2002). Spesignated in the Emergency Management Plan (April 2002). Spesignated in the Emergency Management mined based on particular events. Thereform as a potential evacuation route in an erruction of six additional single-family resign access.	ecific cour Plan; rath ore, the po and conn mergency	itrywide events feasible in the interest of the ects to Ridevent; how	acuation re routes are existing a er Road, over the	outes are re iccess could
8.	Expose people to electro-magnetic fields associated with electrical transmission lines?				
unde	ussion: Electric lines associated with the ground and would not be high voltage trapposed to electromagnetic fields.	proposed nsmission	land division; therefore,	on would b , people w	e located ould not
9.	Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				
area,	ussion: The western portion of the subject however there is no proposed development erty and the project design incorporates a rements and includes fire protection device	ent within II applicab	the mappe le fire safet	d portion o y code	of the
interv width	e requirements include providing vehicula vals, as well as improving the secondary a and surfacing standards. Additionally, the overned by a maintenance agreement to e	access roa e seconda	d to meet r ry access i	minimum r road is pro	equired posed to

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the road in compliance with fire standards in perpetuity. The project would result in an

improvement over the existing primary and secondary road conditions and would

reduce the exposure of residents to significant risk due to wildland fires.

CEQA E Page 21	Environmental Review Initial Study 1	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	ANSPORTATION/TRAFFIC d the project:				
1.	Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?				
roads projec	and intersections. However, given the significant. For Service at any nearby intersection to consider the significant of Service at any nearby intersection to consider the significant of Service at any nearby intersection to consider the significant of service at any nearby intersection to consider the significant of the significant o	mall numb urther, the	er of new t increase v	rips create vould not	ed by the
2.	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				
	ussion: The proposed project does not in impact.	npact air tr	affic patter	ns, therefo	ore there
3.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
devel from into c	ussion: The proposed project would result loped with a single-family dwelling. The pathe existing road. The project includes importance with fire department standards one and providing adequate turnouts. As a acrease in traffic associated with six new roads.	roposed n provemen s. Improve a result of	ew parcels t along End ments inclu the propos	would tak os Road to ude widen ed improv	e access bring it ing ements,
4.	Result in inadequate emergency access?				
Disc ithat it	ussion: The project's road access does r t is less than 18 feet wide and does not p	not current rovide the	ly meet cor required to	unty stand urnouts ev	lards in ery 200

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feet. of the Fores	The deficiency will be brought into complia e proposed development and has been app stry.	nce with C proved by (ounty stan California D	dards as a Department	result of
5.	Cause an increase in parking demand which cannot be accommodated by existing parking facilities?				
<i>Disc</i> parki	ussion: The project meets the code requiring ng spaces and therefore new parking dem	ements for and would	the require be accomm	ed number modated or	of site.
6.	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?				
prev owne	eussion: The proposed project would coment potential hazards to motorists, bicyclist er proposes to bring the private road into codards.	s, and/or p	ieuesmans	as the pro	nts to perty
7.	Exceed, either individually (the project alone) or cumulatively (the project combined with other development), a level of service standard established by the County General Plan for designated intersections, roads or highways?				
Disc	cussion: See response I-1 above.				
	NOISE ald the project result in:				
1.	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
Dis	cussion: The project would create an incre	emental in	crease in th	ne existing	noise

Discussion: The project would create an incremental increase in the existing noise environment. However, this increase would be small, and would be similar in character to noise generated by the surrounding rural residential uses.

CEQA E Page 23	Environmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				
<i>Discu</i> result	ssion: No excessive groundborne vibration of the proposed minor land division and s	ons or nois single fami	se levels w ly dwellings	ill be crea s.	ted as a
3.	Exposure of persons to or generation of noise levels in excess of standards established in the General Plan or noise ordinance, or applicable standards of other agencies?				
General Impulsion proporthat the noise land untimbe	rasion: Per County policy, average hourly ral Plan threshold of 50 Leq during the day sive noise levels shall not exceed 65 db d sed minor land division and residential usine noises associated with a residential usin the County General Plan and are consuses. While the residences will be located a harvests in the vicinity may be expected imporary not expected to create a signification.	y and 45 L luring the desemble will not desemble e are belowistent with adjacent to occur,	eq during tr day or 60 d exceed the w the maxi surroundir to timber re such timbe	ne nigntum b at night se limitation mum three ng rural re esources a	The ons in sholds for sidential and future
4.	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				
levels limite 4 for	ussion: Noise generated during construct for adjoining areas. Construction would d duration of this impact it is considered to a discussion of temporary noise impacts a area.	be tempoi o be less t	rary, howev han signific	ver, and g cant. See	Section J
5.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
Disc.	ussion: The project site is not located wit of a public airport, therefore there is no i	hin an airr mpact.	oort land us	se plan or	within two

CEQA E Page 24	Environmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
6.	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				
	ession: The project site is not located with ore, there is no impact.	nin the vicir	nity of a pri	vate airstr	ip;
Where establ	R QUALITY e available, the significance criteria ished by the Monterey Bay Unified illution Control District (MBUAPCD) may be to make the following determinations.	pe relied buld the pr	oject:		
1.	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?				
ozone would	ession: The North Central Coast Air Basing and particulate matter (PM ₁₀). Therefore be emitted by the project are ozone preces] and nitrogen oxides [NO _x]), and dust.	e, the regio	onal polluta	ints of con	cern that
no inc	the modest amount of new traffic that wo dication that new emissions of VOCs or N ese pollutants and therefore there would in gair quality violation.	O_x would ϵ	exceed MR	UAPCU	resnoias
gener as pe	ct construction may result in a short-term, ration of dust. However, standard dust corriodic watering, will be implemented during han significant level.	ontrol best	manageme	ent practic	es, such
2.	Conflict with or obstruct implementation of the applicable air quality plan?				
Discu region	ussion: The project would not conflict wit hal air quality plan. See K-1 above.	h or obstru	ict impleme	entation of	the
3.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for				

CEQA Page 2	Environmental Review Initial Study 5	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	Nu Impact
Discu	ussion: See K-1 above.				
4.	Expose sensitive receptors to substantial pollutant concentrations?				
rocult	ussion: No substantial pollutant concentrated of the proposed minor land division, with ruction vehicles and large events, which we	the excep	ition of CO2	emission	SHOIII
5.	Create objectionable odors affecting a substantial number of people?				
Disc iresult	ussion: No objectionable odors would be tof the proposed project therefore there is	created do no impac	uring const ct.	ruction or	as a
	REENHOUSE GAS EMISSIONS d the project:				
1.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
incre site g deve reduct level spec woul requ dens	ussion: The proposed project, like all demental increase in green house gas emisgrading and construction. At this time, Saloping a Climate Action Plan (CAP) intendiction goals and necessary actions to reduction goals and necessary actions to reduction goals and necessary actions to reduction goals and necessary actions to reduct the standards or criteria to apply to this produce of the comply with the Regional irements for construction equipment. The sity and intensity of development allowed gnations for the subject parcel. As a result case in green house gas emissions are expensed.	nta Cruz (ded to estance greenhetil the CAF oject. All proposed by the Gert, impacts	County is in ablish spectouse gas led is comple project control Ed project is neral Plan a associated	the procesific emissific emissific emissific emissific end there struction estruction end estruction estructio	ess of on re-1990 are no equipment ssions at the g emporary
2.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
Disc	cussion: See the discussion under L-1 at	oove. No i	mpacts are	anticipate	∋d.
	PUBLIC SERVICES uld the project:				
1.	Result in substantial adverse physical impacts associated with the provision				

Application Number: 10-0069

CEQA En Page 26	viroi	nmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
g f c iii a t	gov or p aci cou mp acc ime	new or physically altered rernmental facilities, need for new physically altered governmental lities, the construction of which ald cause significant environmental pacts, in order to maintain reptable service ratios, response es, or other performance objectives any of the public services:					
á	э.	Fire protection?			\boxtimes		
k	Э.	Police protection?					
C	C.	Schools?					
	d.	Parks or other recreational activities?					
6	e.	Other public facilities; including the maintenance of roads?					
Discussion (a through e): While the project represents an incremental contribution to the need for services, the increase would be minimal. Moreover, the project meets all of the standards and requirements identified by the local fire agency or California Department of Forestry, as applicable, and school, park, and transportation fees to be paid by the applicant would be used to offset the incremental increase in demand for school and recreational facilities and public roads.							
		EATION project:		r			
; ;	exi par sud det	buld the project increase the use of sting neighborhood and regional reks or other recreational facilities that substantial physical terioration of the facility would occur be accelerated?					
Discussion: The proposed project would result in the development of six new single-family dwellings, which would potentially increase the use of an existing neighborhood							

family dwellings, which would potentially increase the use of an existing neighborhood or regional park or other recreational facilities; however, given the minimal increase in population associated with six single-family dwellings the additional impact would substantially add to or accelerate the physical deterioration of the facility. Additionally,

Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

|X|

capital improvement fees will be assessed for the construction of the new dwellings, which will further reduce the potential for accelerated physical deterioration of community parks and recreational facilities.

2. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Discussion: No recreational facilities would be constructed or expanded as a part of the project.

O. UTILITIES AND SERVICE SYSTEMS

Would the project:

1. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Discussion: Drainage analysis of the project by Joe L. Akers (dated February 22, 2010) concluded that the proposed drainage facilities to be constructed as a part of the project would hold post-development runoff to pre-construction rates. The proposed system would include the construction of a bio-swale along the proposed access road as well as a percolation trench at the end of the new road. The proposed systems will not significantly impact the environment. Department of Public Works Drainage staff have reviewed the drainage information and have determined that downstream storm facilities are adequate to handle the increase in drainage associated with the project.

2. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Discussion: The project would rely on an individual well for water supply and on-site septic systems for sewage disposal. Both proposed systems have been determined by the County Environmental Health Services Department as adequate to accommodate the relatively light demands of the project. Public water delivery facilities and wastewater treatment facilities would not have to be expanded to support the project.

 Exceed wastewater treatment requirements of the applicable Regional Water Quality Control

Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Board?

Discussion: The project's wastewater flows would not violate any wastewater treatment standards.

4. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Discussion: The County Environmental Health Services Department has determined that the proposed wells will be sufficient to serve the proposed project and that no new entitlements or expanded entitlements are needed. Each resulting parcel would be served by an individual well.

5. Result in determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Discussion: Refer to Sections O-2 and O-4.

6. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Discussion: The project would make a one-time contribution to the reduced capacity of regional landfills during construction. However, the property is currently vacant and no demolition is required. Regional landfills are reaching capacity, therefore in order to mitigate the impacts of temporary construction debris to less than significant, a project condition will require the applicant to submit a plan to recycle and/or reuse excess

X

post-construction materials, for review and approval by Planning Staff, prior to building permit issuance. Implementation of this mitigation will maximize recycling and reuse of construction materials and will minimize contributions to the landfill.

7. Comply with federal, state, and local statutes and regulations related to solid waste?

Discussion: solid waste accumulation is anticipated to increase slightly as a result of the new residential uses; however, the increase would be minimal and is not anticipated to result in a breach of federal, state, or local statutes and regulations.

Application Number: 10-0069

Environmental Review Initial Study)	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
ND USE AND PLANNING the project:				
Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
ession: The proposed project does not cored for the purpose of avoiding or mitigating	iflict with an env	n any regula ironmental e	tions or po effect.	olicies
Conflict with any applicable habitat conservation plan or natural community conservation plan?				
		natural con	nmunity	
Physically divide an established community?				
ssion: The project would not include any ished community.	element	that would	physically	divide an
PULATION AND HOUSING I the project:				
Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
	IND USE AND PLANNING I the project: Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? Ission: The proposed project does not cored for the purpose of avoiding or mitigating. Conflict with any applicable habitat conservation plan or natural community conservation plan? Ission: There are no habitat conservation rvation plans applicable to the subject pro Physically divide an established community? Ission: The project would not include any ished community. PULATION AND HOUSING I the project: Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other	IND USE AND PLANNING I the project: Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? Ission: The proposed project does not conflict with ed for the purpose of avoiding or mitigating an environmental community conservation plan? Ission: There are no habitat conservation plans or rvation plans applicable to the subject property. Physically divide an established community? Ission: The project would not include any element ished community. PULATION AND HOUSING I the project: Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other	ND USE AND PLANNING I the project: Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? Ission: The proposed project does not conflict with any regulated for the purpose of avoiding or mitigating an environmental effect? Ission: The proposed project does not conflict with any regulated for the purpose of avoiding or mitigating an environmental effect? In the project with any applicable habitat conservation plan or natural community conservation plan? In the project would not include any element that would ished community. In the project: Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other	ND USE AND PLANNING I the project: Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? Sision: The proposed project does not conflict with any regulations or project for the purpose of avoiding or mitigating an environmental effect. Conflict with any applicable habitat conservation plan or natural community conservation plan? Sision: There are no habitat conservation plans or natural community rvation plans applicable to the subject property. Physically divide an established

Discussion: The proposed project would not induce substantial population growth in an area because the project does not propose any physical or regulatory change that would remove a restriction to or encourage population growth in an area including, but limited to the following: new or extended infrastructure or public facilities; new commercial or industrial facilities; large-scale residential development; accelerated conversion of homes to commercial or multi-family use; or regulatory changes including General Plan amendments, specific plan amendments, zone reclassifications, sewer or water annexations; or LAFCO annexation actions.

The proposed project is designed at the density and intensity of development allowed by the General Plan and zoning designations for the parcel.

CEQA Page 3	Environmental Review Initial Study 0	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
	ussion: The proposed project would not discurrently vacant.	splace an	y existing h	ousing sir	nce the
3.	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				
Discu	ussion: The proposed project would not di	splace a s	substantial	number of	people

since the site is currently vacant.

R. MANDATORY FINDINGS OF SIGNIFICANCE

		Potentially Significant Impact	Significant with Mitigation	Less than Significant Impact	No Impact
1.	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				

Less than

Less than Significant

Potentially

Less than

Less than

Potentially

Discussion: The potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory were considered in the response to each question in Section III of this Initial Study. The subject parcel does not contain biotic resources that would be negatively impacted by the project; however there are potential impacts of nighttime lighting on adjacent and surrounding animal habitats. A project condition of approval would require the property owner to submit an exterior lighting plan which shows all proposed exterior lighting shielded downward and away from adjacent potential animal habitats to ensure that any such habitat are protected from nighttime lighting impacts. The property owner would be required to obtain planning staff approval of the exterior plan prior to building permit issuance. As a result of this evaluation there is no substantial evidence that, after mitigation, significant effects associated with this project would result. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

Significant Significant with Mitigation Impact Impact Impact 2. Does the project have impacts that are individually limited, but cumulatively considerable? ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Discussion: In addition to project specific impacts, this evaluation considered the project's potential for incremental effects that are cumulatively considerable. As a result of this evaluation, it has been determined that there is no substantial evidence that there are cumulative effects associated with this project. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

		Potentially Significant Impact	Significant with Mitigation	Less than Significant Impact	No Impaci
3.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

Discussion: In the evaluation of environmental impacts in this Initial Study, the potential for adverse direct or indirect impacts to human beings were considered in the response to specific questions in Section III. As a result of this evaluation, there were determined to be no poten tially significant effects to human beings associated with this project. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

IV. TECHNICAL REVIEW CHECKLIST

	REQUIRED	COMPLETED
Agricultural Policy Advisory Commission (APAC) Review	Yes 🗌 No 🔀	
Archaeological Review	Yes 🗌 No 🔀	
Biotic Report/Assessment	Yes 🛛 No 🗌	12/4/08, 07/26/10
Geologic Hazards Assessment (GHA)	Yes 🗌 No 🔀	
Geologic Report	Yes 🛛 No 🗌	10/2/09
Geotechnical (Soils) Report	Yes 🛛 No 🗌	01/07/10
Riparian Pre-Site	Yes 🗌 No 🔀	
Septic Lot Check	Yes 🛛 No 🗌	8/14/06
Timber Resource Assessment	Yes 🛛 No 🗌	4/2/10

V. REFERENCES USED IN THE COMPLETION OF THIS ENVIRONMENTAL REVIEW INITIAL STUDY

County of Santa Cruz 1994.

1994 General Plan and Local Coastal Program for the County of Santa Cruz, California. Adopted by the Board of Supervisors on May 24, 1994, and certified by the California Coastal Commission on December 15, 1994.

VI. ATTACHMENTS

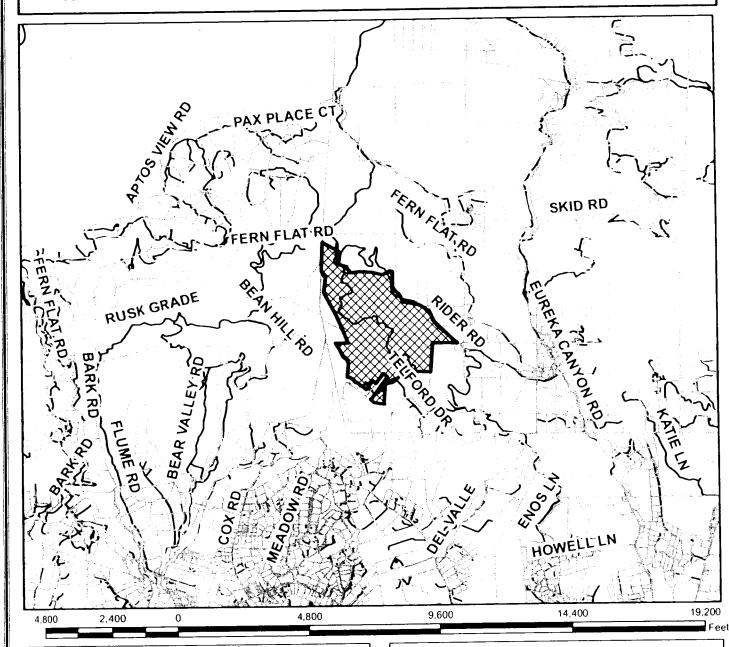
- 1. Vicinity Map, Map of Zoning Districts; Map of General Plan Designations; and Assessors Parcel Map.
- 2. Tentative Map & Preliminary Improvement Plans, prepared by Joe L. Akers, dated 11/13/09; revised 12/28/10
- 3. Geologic Investigation and Update (Report Summary, Conclusions, Recommendations, Map & Cross Sections), prepared by Zinn Geology, dated 10/2/09 and 02/22/11
- 4. Geologic and Geotechnical Report Review Letter, prepared by Joe Hanna, County geologist, dated 03/20/11
- 5. Geotechnical Investigation (Conclusions and Recommendations), prepared by Bauldry Engineering, Inc.,dated 01/07/10
- 6. Site Evaluation for Septic System Feasibility, prepared by BioSphere Consulting, dated August 14, 2006.
- 7. Well Yield and Pump Test Report 6/6/08
- 8. Discretionary Application Comments, dated 4/19/10 and 06/08/11
- 9. Drainage Calculations, prepared by Joe L. Akers, dated 2/24/10
- 10. Biotic Report, prepared by EcoSystems West, dated 12/4/08
- 11. Biotic Report Review Letter, prepared by Matt Johnston, dated 12/05/08
- 12. Woodrat Survey, prepared by Dana Bland & Associates, dated 07/26/10
- 13. Registered Professional Forester's Assessment of TPZ Compatibility, prepared by Cassady Bill Vaughan, dated April 2, 2010
- 14. Rural Residential Density Matrix 07-0499, prepared by County Planning Staff, dated September 2007, revised June 2011

Application Number: 10-0069

FXHIBIT E



Location Map







XXX APN: 107-011-06

Assessors Parcels

Streets

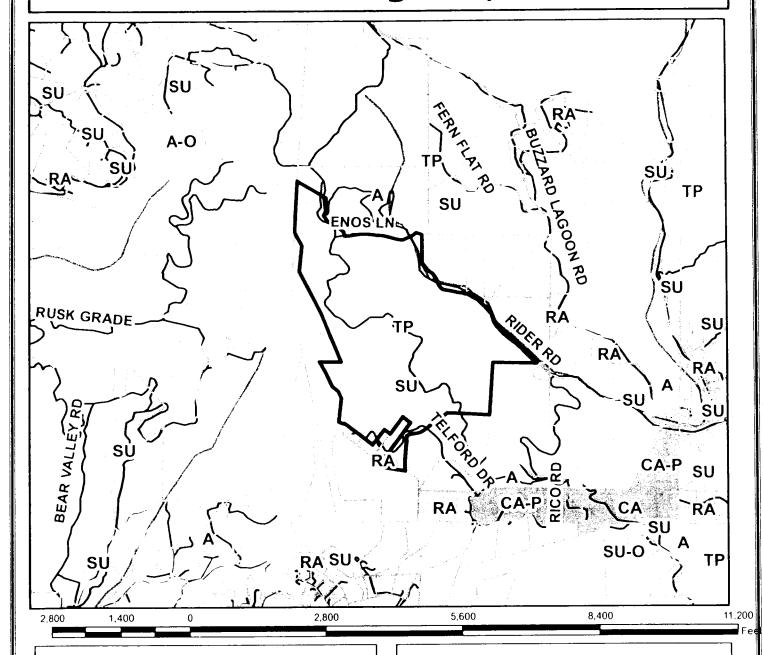


Map Created by County of Santa Cruz Planning Department June 2011

ATTACHM



Zoning Map





APN: 107-011-06

Assessors Parcels

- Streets

Streams

PERENNIAL

SWALE

TIMBER PRODUCTION

SPECIAL USE

AGRICULTURE RESIDENTIAL

AGRICULTURE

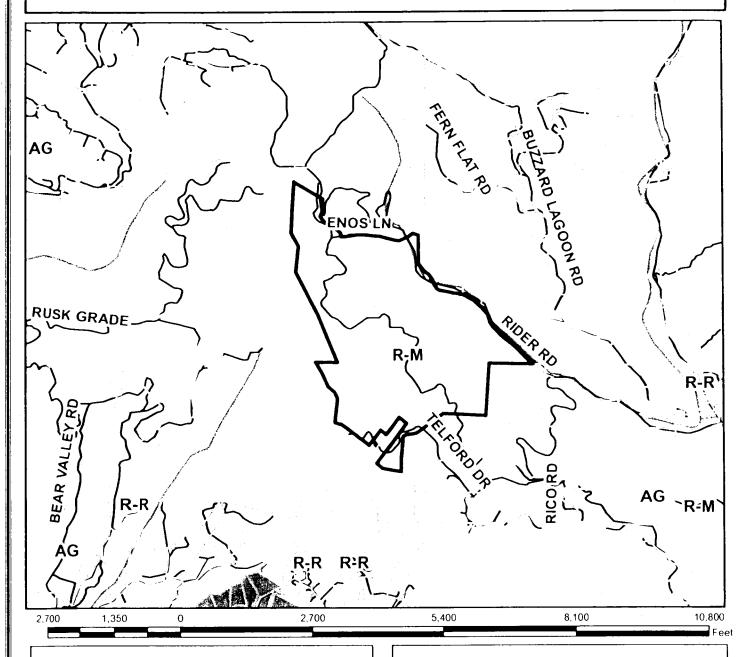
AGRICULTURE COMMERCIAL



Map Created by County of Santa Cruz Planning Department June 2011



General Plan Designation Map



LEGEND

APN: 107-011-06

Assessors Parcels

Streets

Streams

--- PERENNIAL

SWALE

Residential-Mountain

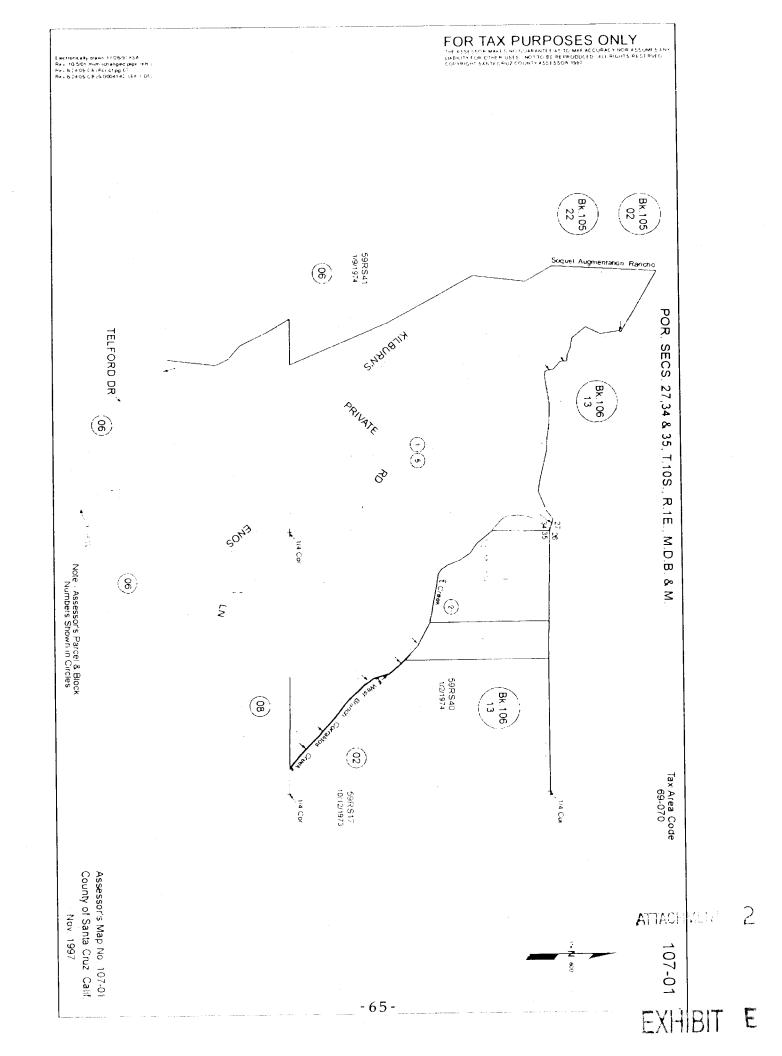
Residential-Rural

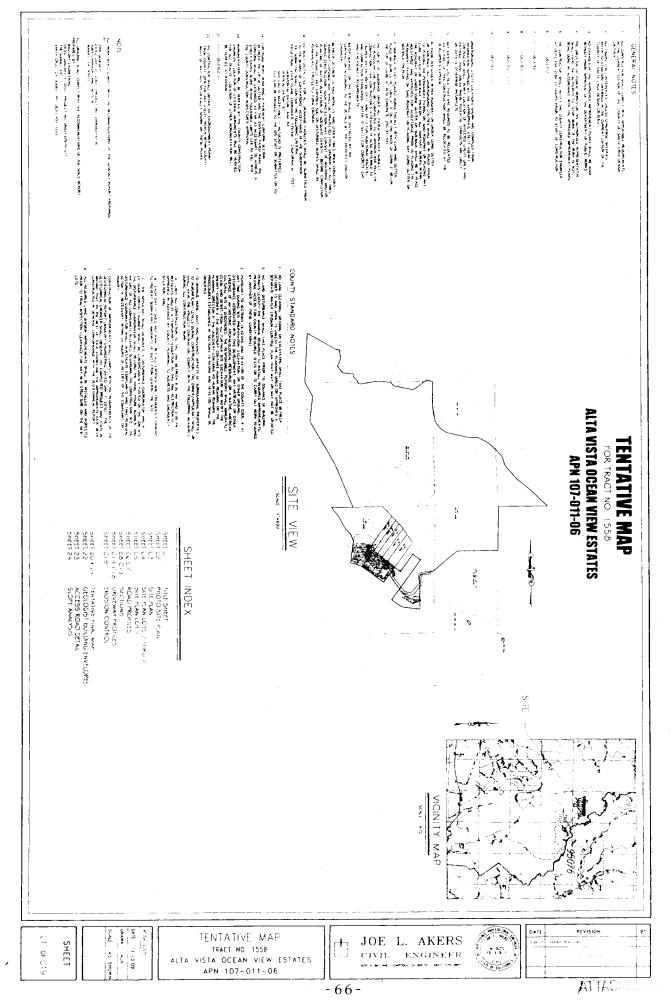
Agriculture

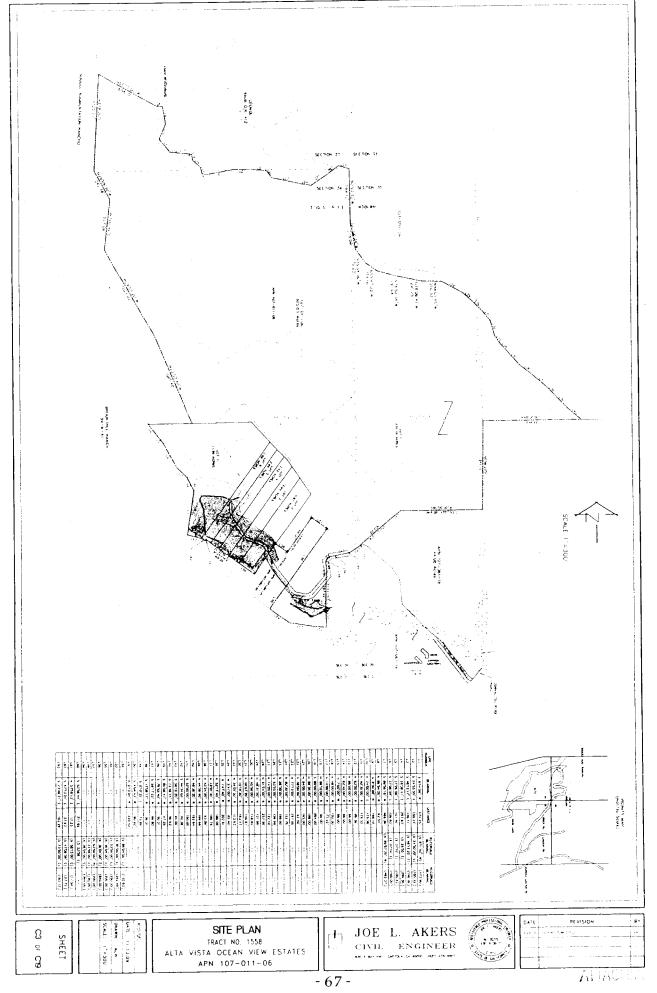


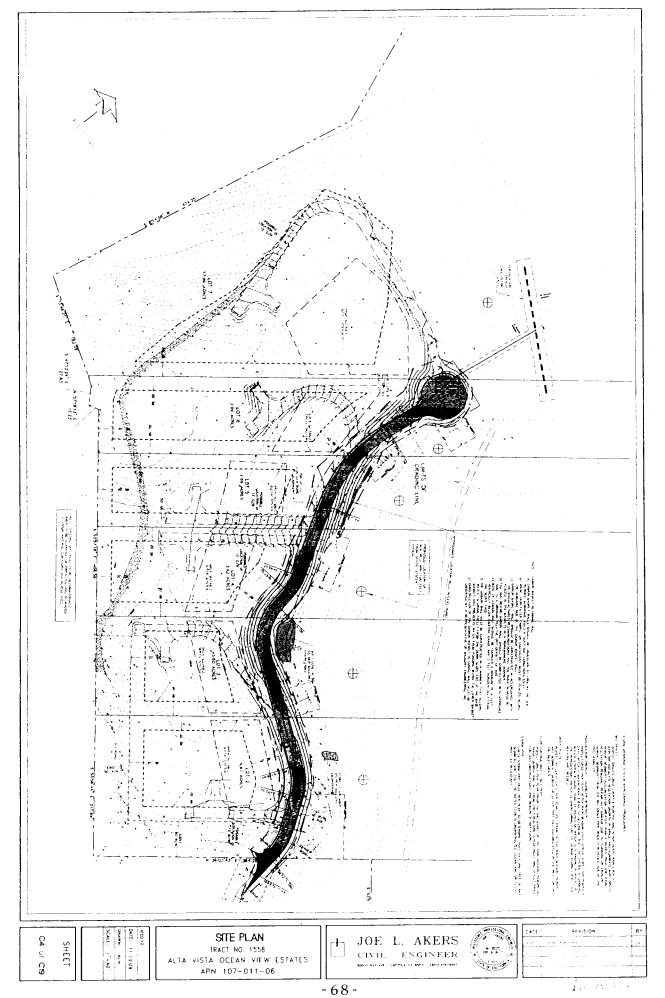
Map Created by County of Santa Cruz Planning Department June 2011

ATTACHMENT

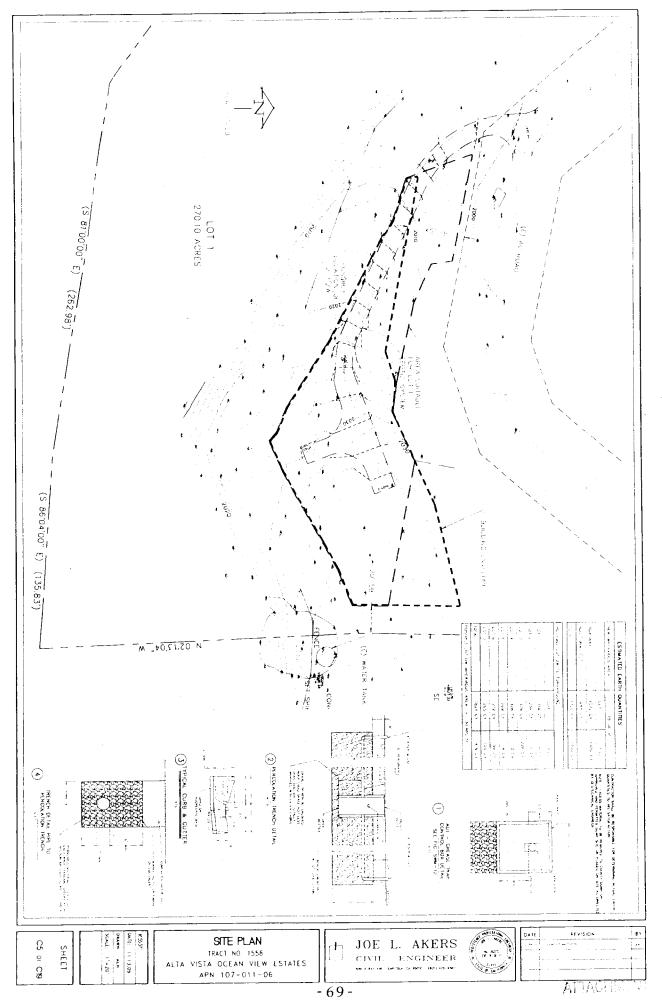






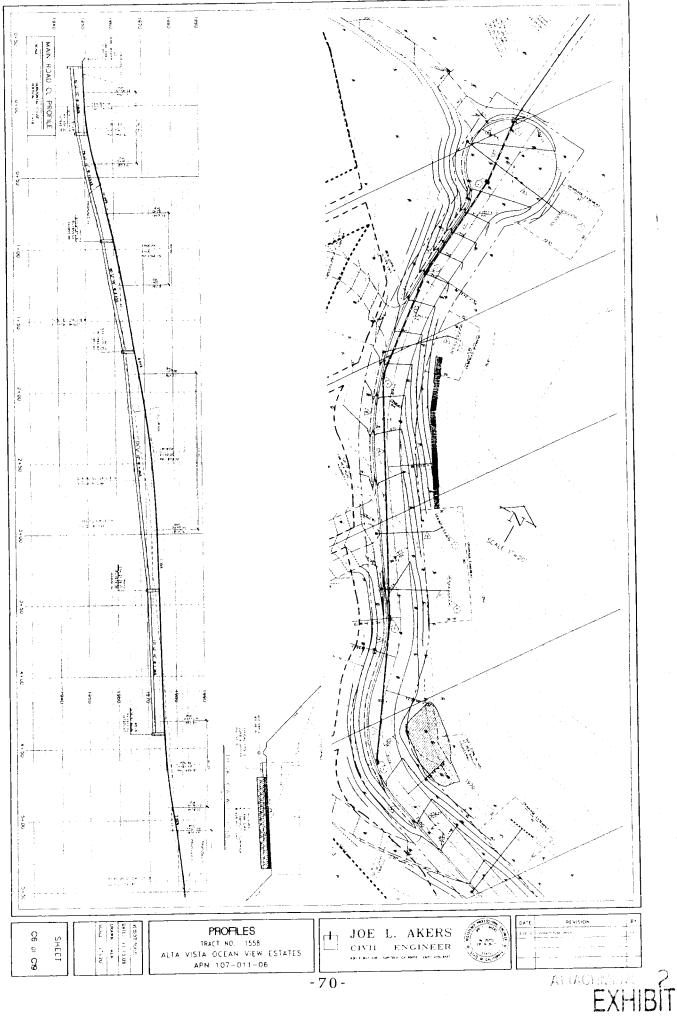


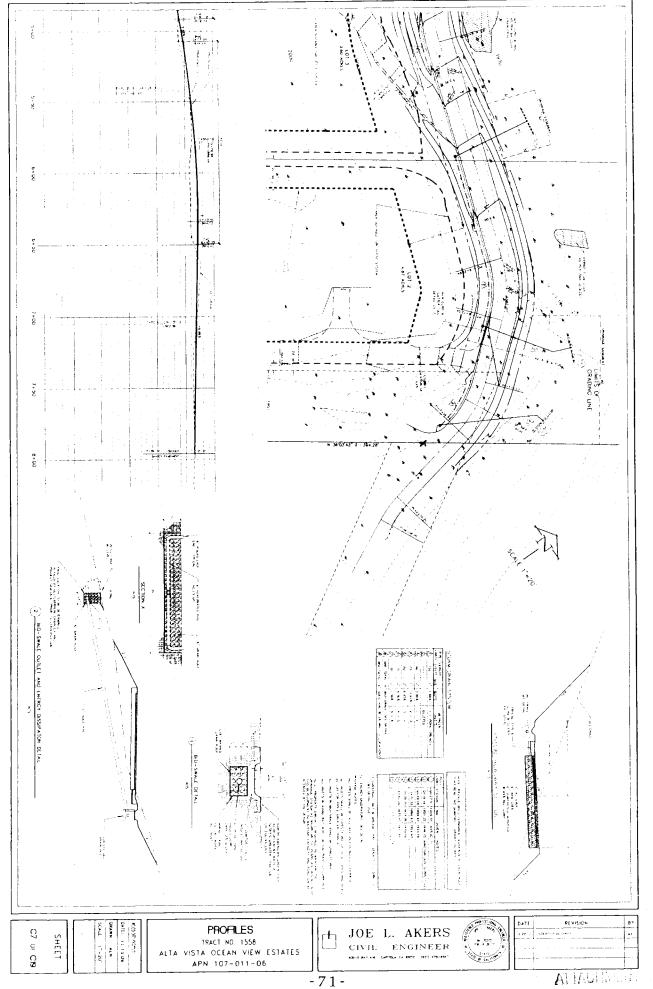
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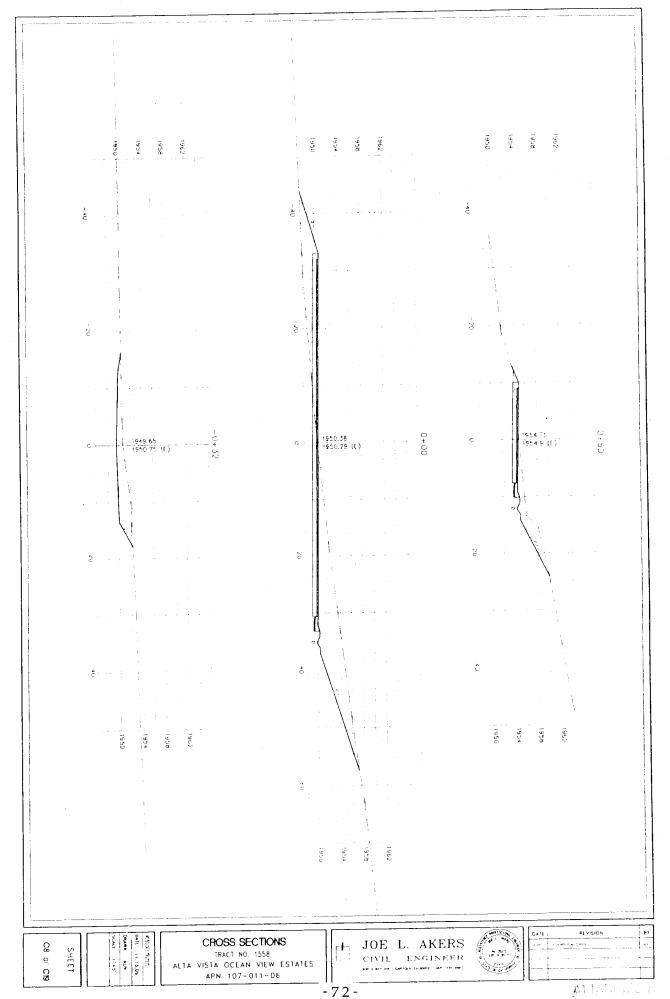
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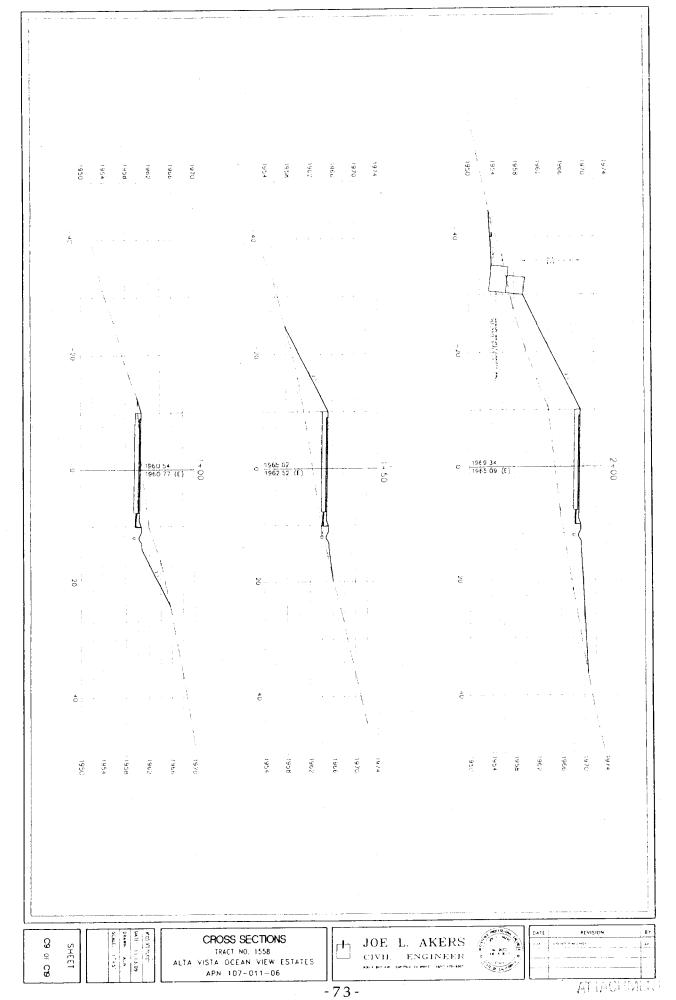


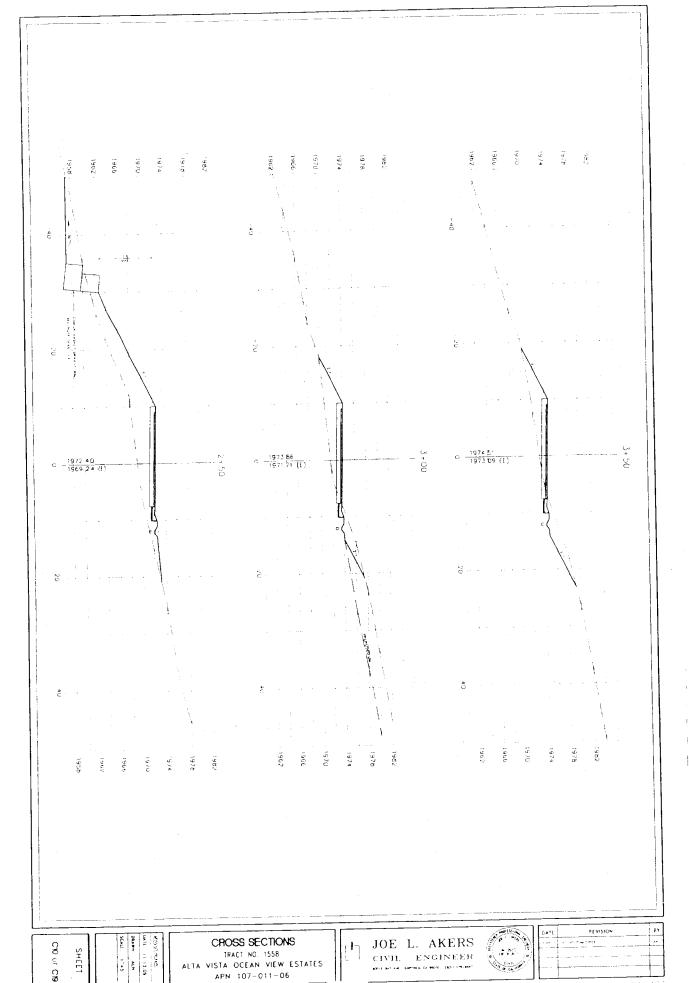
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XHIBIT E

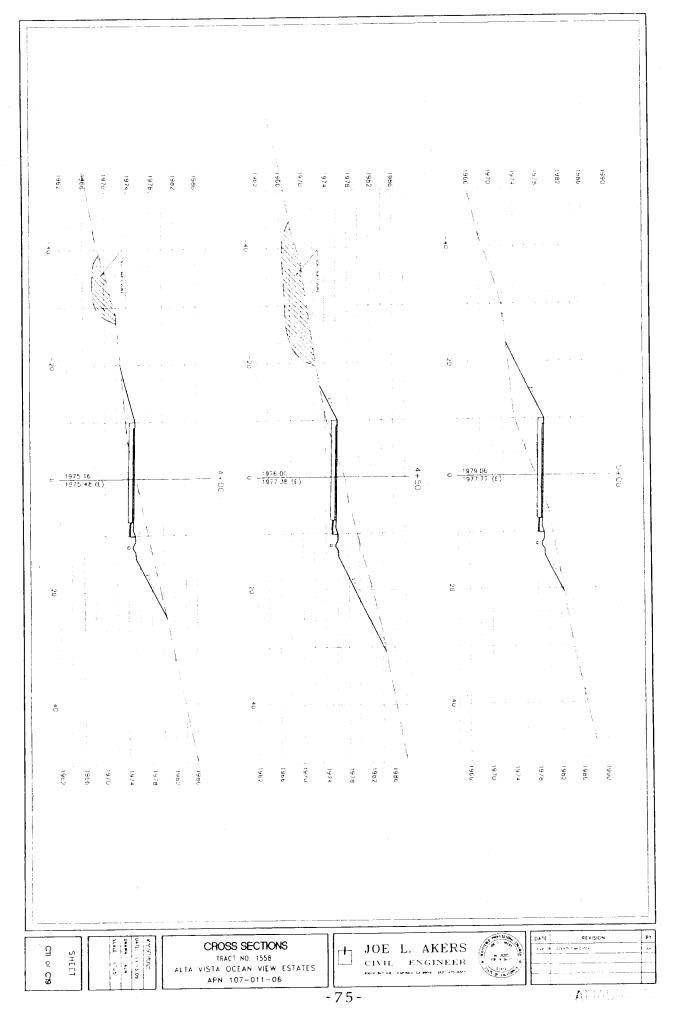


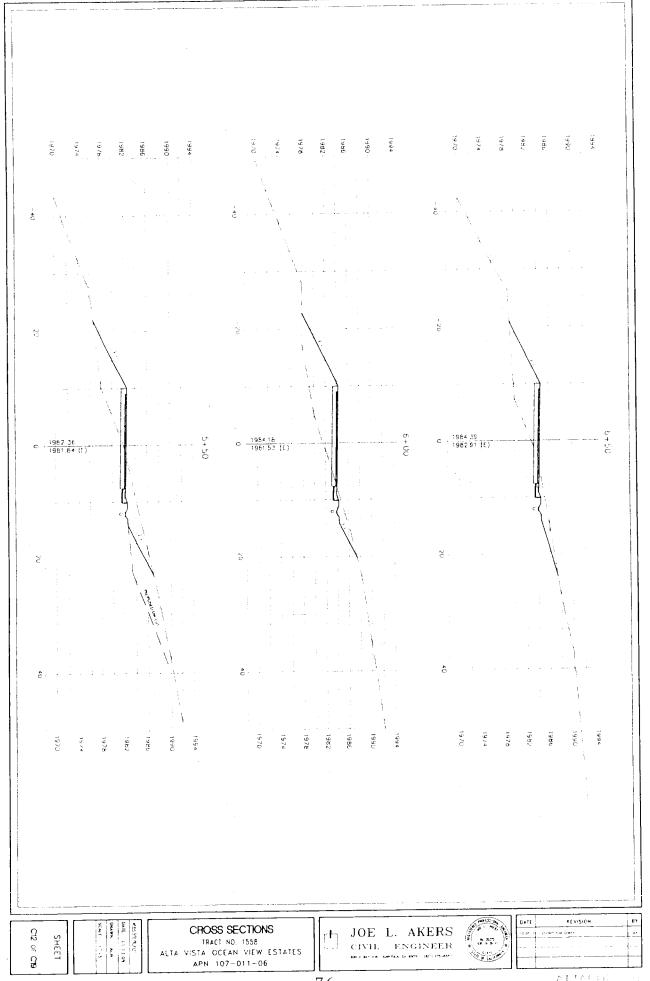


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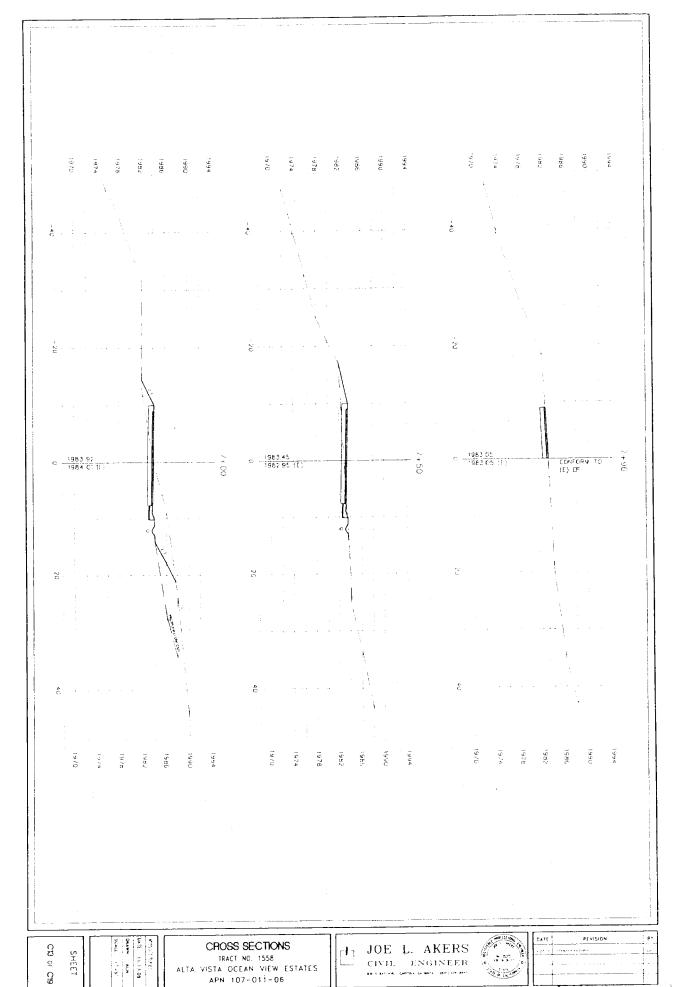
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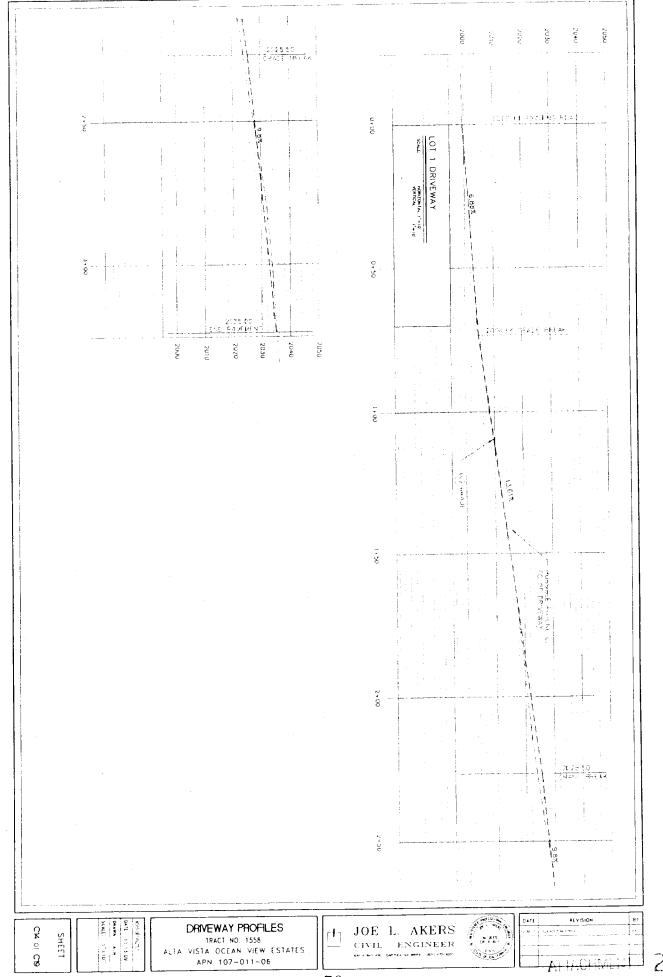




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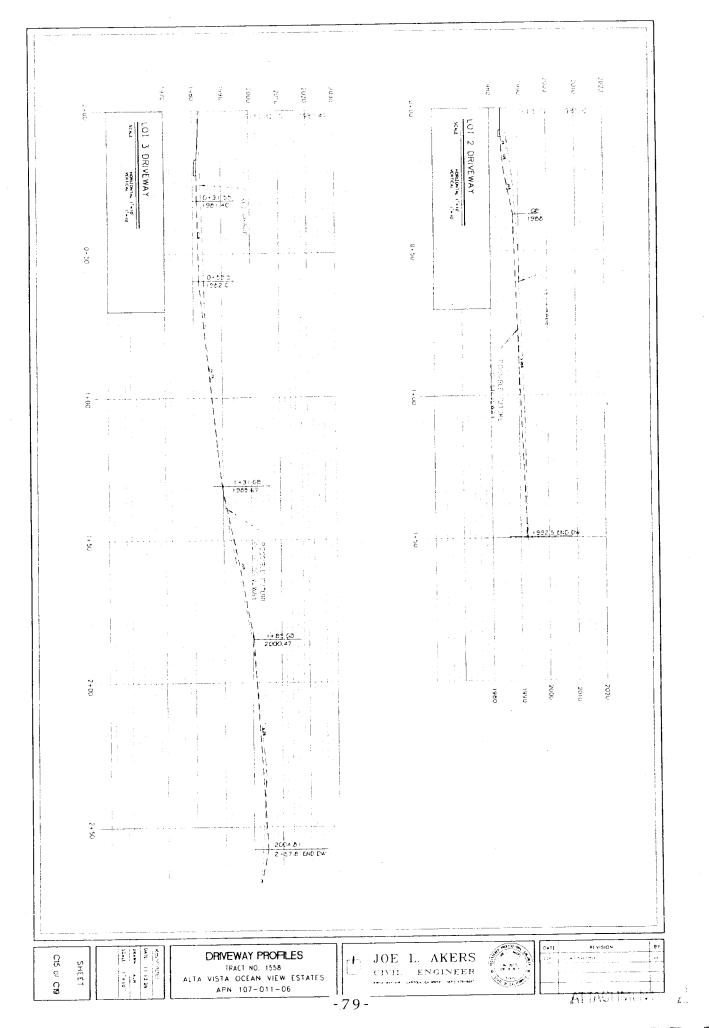


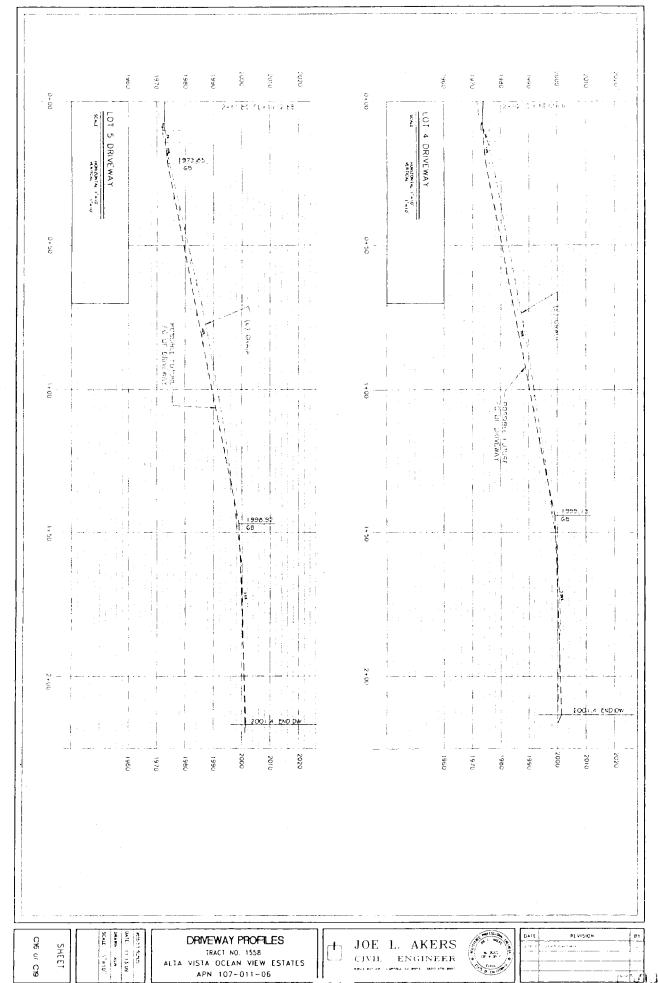
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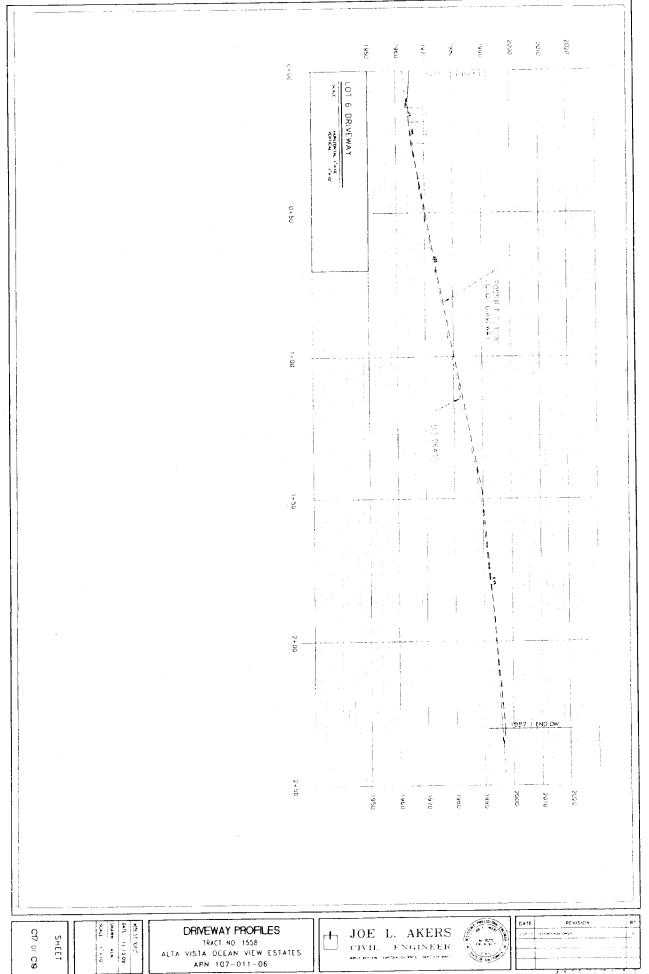
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EXHIBIT E





-80-



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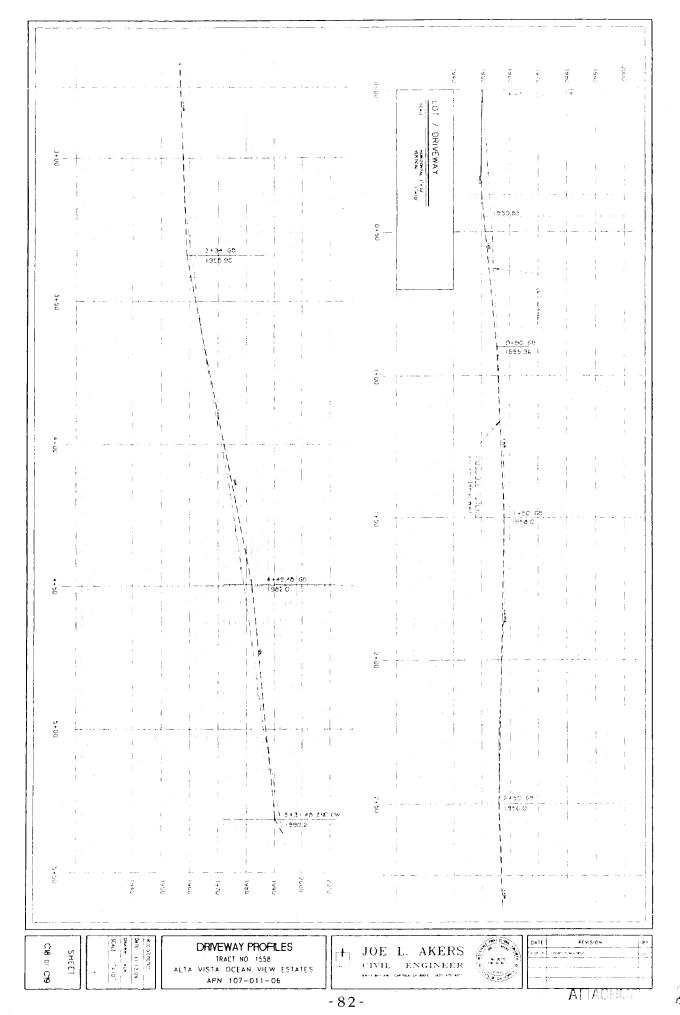
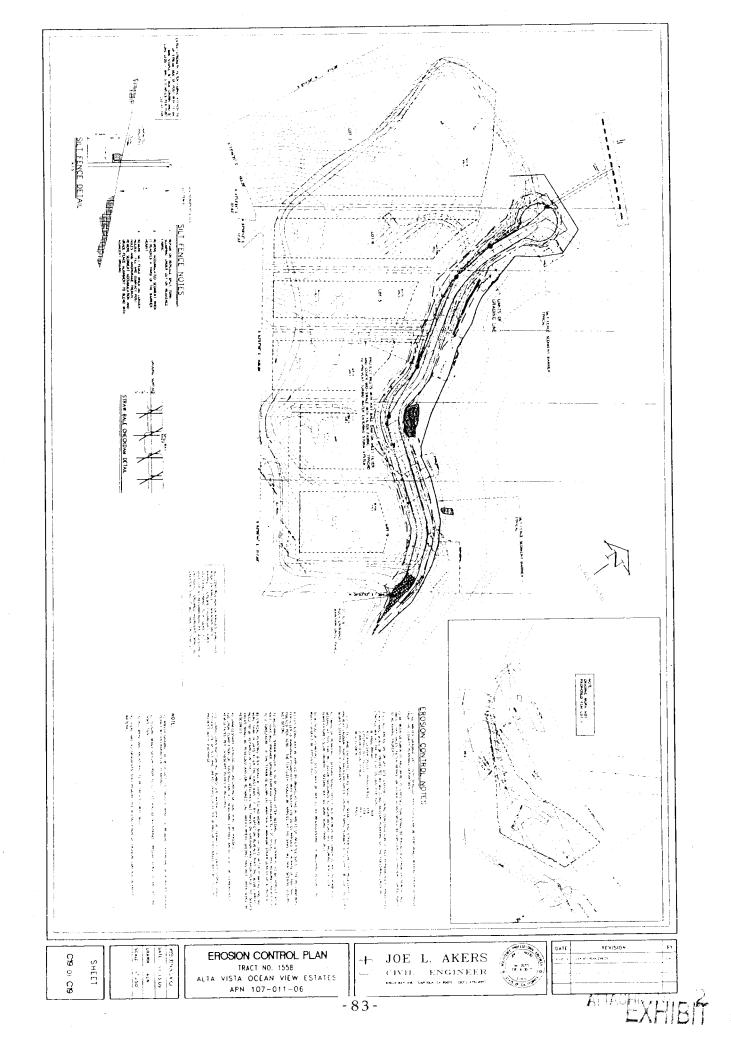
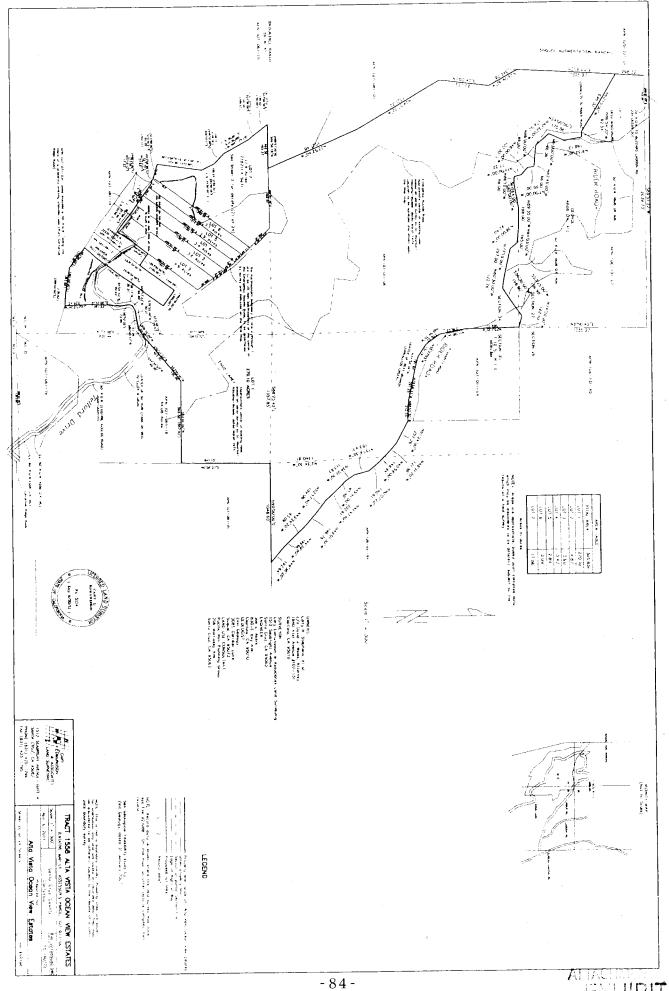


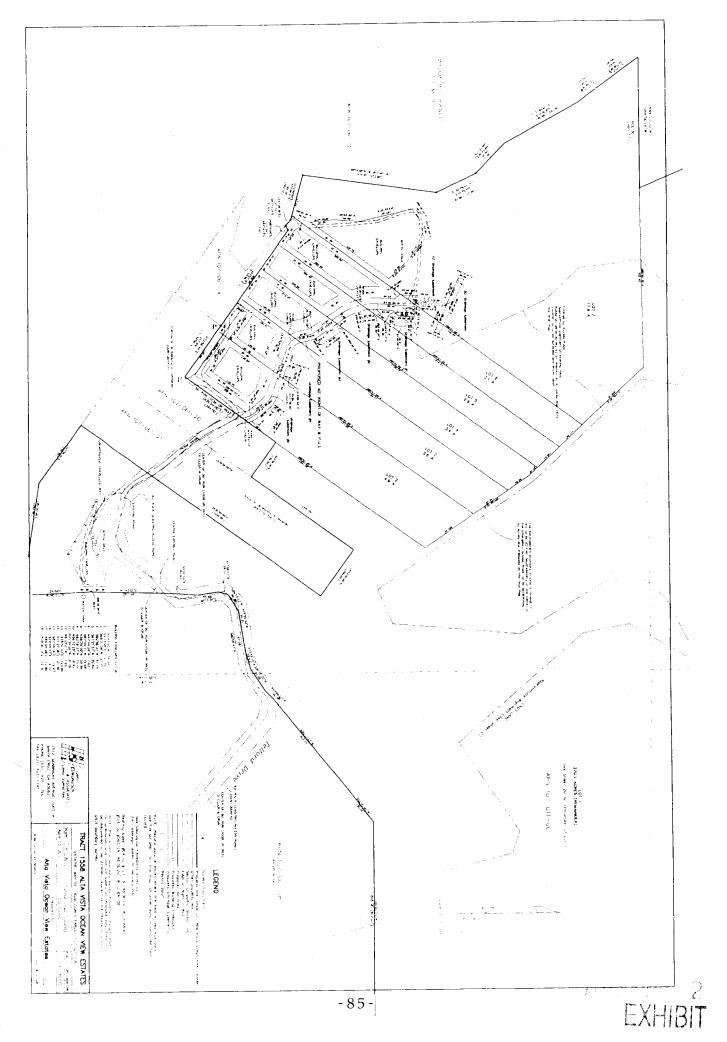
EXHIBIT F



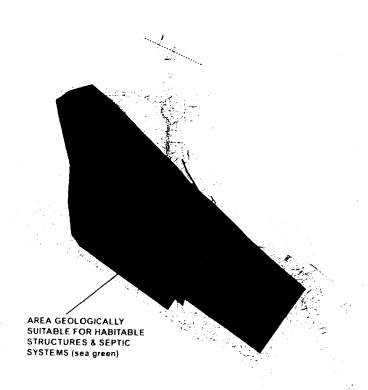


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EXHIBIT E 1



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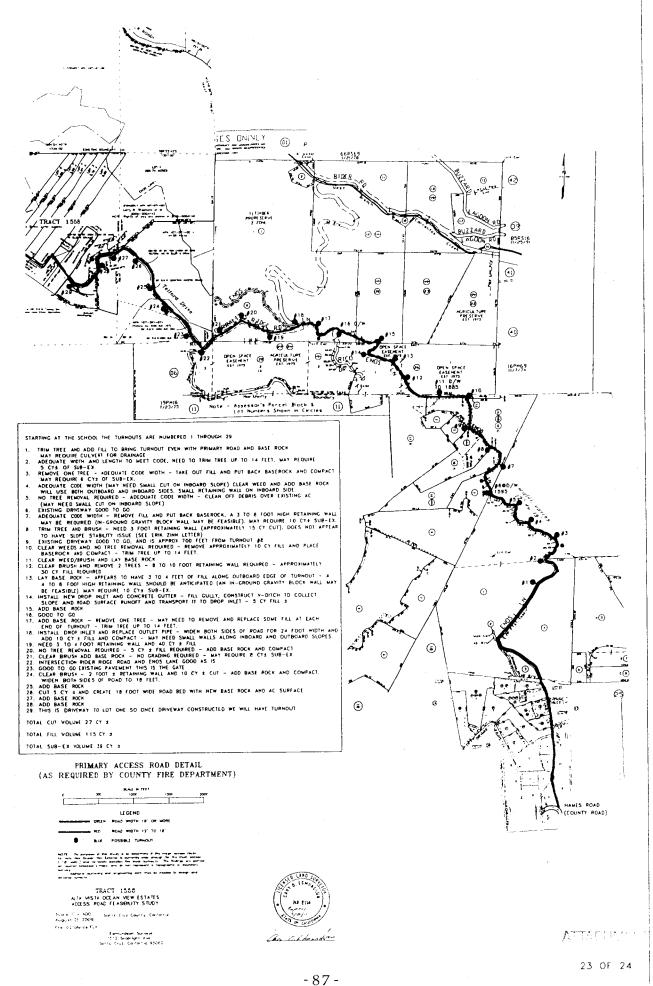


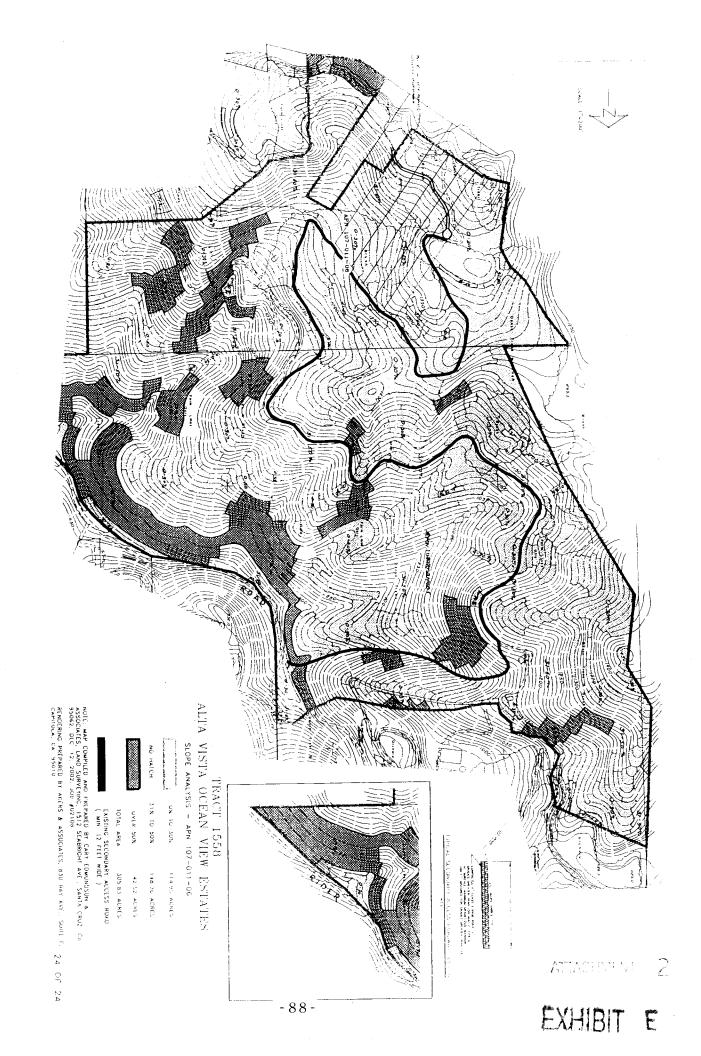
AREA GEOLOGICALLY SUITABLE FOR HABITABLE-STRUCTURES & SEPTIC SYSTEMS (sea green)



SHEET 22 OF 24

Fig. . . 2





2 October 2009

Job #2006002-G-SC

Diversified Income Planning, Inc. Attention: David J. Weiss 1840 41st Avenue, #102-131 Capitola, California 95010-2527

Re:

Geologic investigation for proposed Alta Oceanview Estates subdivision

Telford Drive

Watsonville, California 95076

County of Santa Cruz APN 107-011-06

Dear Mr. Weiss:

Our geologic report on the property referenced above is attached. This report documents geologic conditions on the subject property and addresses potential hazards and attendant risks to the developments being proposed for this subdivision.

Based on the information gathered and analyzed, it is our opinion that the building envelopes portrayed upon Plate 1 are geologically feasible, provided our recommendations are followed. The residential development within the envelopes will be, in our opinion, subject to "ordinary risks" as defined in Appendix B, provided our recommendations are followed. Appendix B should be reviewed in detail by the developer and all property owners (current and future) to determine whether an "ordinary" risk as defined in the appendix is acceptable. If this level of risk is unacceptable to the developer and the property owners, then the geologic and geotechnical hazards in question should be mitigated to reduce the corresponding risks to an acceptable level. The acceptable level would need to be defined by the developer/owner in conjunction with a consultants having expertise in engineering geology and geotechnical engineering.

In our opinion, the potential for landsliding to occur on the native slopes within the geologically feasible building envelopes is low for the lifetime of a single-family residence. It is important to note, however, that slope stability issues may arise in the future, depending upon the decisions made about the proposed grading scheme for the development, as well as for grading that occurs on individual lots. It is important for this issue to be revisited by the project geologists and geotechnical engineers of record and carefully studied in regard to the forthcoming detailed grading plans

The project geotechnical engineer and project civil engineer should take note of the area where a small debris scar is located slightly below the tentative proposed access road. They should issue mitigation recommendations where warranted with respect to the design of the cuts and fills for the roadway, as well as the collection and dispersion of drainage.

Severe erosion is common in the sandy soils present upon the hills in this region, particularly where the natural drainage is modified by the works of man and not properly controlled. Development of rills and gullies due to inadequate drainage design, construction or maintenance may significantly impact the proposed development. The project civil engineer that develops the grading plans will need to address this issue by providing erosion control measures, such as, energy dissipaters, lined ditches, catch basins, etc. that will reduce the potential of accelerated erosion. Provisions for maintenance will be a requirement in development of this property during and past construction.

It is important to note that the foundation design is critical for residences that derive support from both cuts and fills. Such a condition may result in differential consolidation of the underlying earth materials, which in turn will result in differential settlement under the foundation. If this process is not taken into account for the project design and construction, significant damage may occur to the foundation and residence. The project geotechnical engineer of record should investigate this problem once specific buildings and grading plans are generated for the individual lots.

The potential hazard level and attendant risk with respect to faulting is summarized in the following table:

ENVELOPE	POTENTIAL FOR FAULTING TO OCCUR	ATTENDANT RISK
For habitable structures and septic systems	Low	Ordinary
For septic systems only	Moderate to high	Ordinary (for septic systems)

The property is located in an area of high seismic activity and will be subject to strong seismic shaking in the future. Based on the results listed in Table 1, the mean peak ground acceleration expected at the property will be approximately 0.85 g, the maximum earthquake ground motion (mean acceleration plus one dispersion) expected at the property will be approximately 1.28 g, based on a M_w 7.0 earthquake (reverse-faulting event) centered on the Zayante fault zone 0.98 kilometer southwest of the site. An EPA of 0.64 g is associated with the mean peak horizontal ground acceleration of 0.85 g.

In our opinion significant coseismic ground cracks (greater than 2 inches in width at the surface, with greater than ½ inch of vertical displacement) are unlikely to affect the geologically feasible

building envelopes within the design life of a single-family residence, with an attendant "ordinary" level of risk. However, considering the geologic setting of the property and the results of the aforementioned case history study by Nolan and Weber (1998), we consider it prudent to recommend that the ground cracking hazard and risk be further refined during design-level studies for all habitable structures by the project geologist of record once the footprints for the structures have been established. In lieu of such studies, we recommend that the foundation for all structures be designed to accommodate up to ½ inch vertical and 2 inches horizontal offset due to potential future ground cracking.

The hazards noted above and their attendant risks are covered in greater detail in the body of the report. We have issued mitigation recommendations where warranted to reduce any elevated risks to ordinary.

This report should be distributed to all the pertinent project design professionals. The project geotechnical, civil and structural engineers, landscape architect as well as the project architect should read this report prior to finalizing their respective investigations, plans and reports and incorporate our recommendations where warranted. We look forward to interacting with design team while they are finalizing their plans and reviewing the forthcoming plans issued by the project civil and structural engineers and project architect.

If you have any questions or comments regarding this report, please contact us at your earliest convenience.

Sincerely GIONAL GEO

Made S

ZINN GEOLOGY EXHIBIT 0.98 kilometer southwest of the site. An EPA of 0.64 g is associated with the mean peak horizontal ground acceleration of 0.85 g.

In our opinion significant coseismic ground cracks (greater than 2 inches in width at the surface, with greater than ½ inch of vertical displacement) are unlikely to affect the geologically feasible building envelopes within the design life of a single-family residence, with an attendant "ordinary" level of risk. However, considering the geologic setting of the subject properties and the results of the aforementioned case history study by Nolan and Weber (1998), we consider it prudent to recommend that the ground cracking hazard and risk be further refined during designlevel studies for all habitable structures by the project geologist of record once the footprints for the structures have been established. In lieu of such studies, we recommend that the foundation for all structures be designed to accommodate up to ½ inch vertical and 2 inches horizontal offset due to potential future ground cracking.

RECOMMENDATIONS

- 1. We recommend that site-specific geologic investigations be pursued for individual home sites, pending the location of the proposed home sites. Prospective home sites located upon steep slopes should be investigated for potential slope stability hazards and their accompanying risks.
- The project engineers should use the acceleration parameters that are appropriate for their particular analysis. If deterministic seismic shaking values are to be used, the values listed in our Table 1 should be consulted.
- We recommend that the ground cracking hazard and risk be further refined during design-level studies for all habitable structures by the project geologist of record once the footprints for the structures have been established. In lieu of such studies, we recommend that the foundation for all structures be designed to accommodate up to ½ inch vertical and 2 inches horizontal offset due to potential future ground cracking.

The following recommendations are for future development plans that include proposed grading and drainage schemes:

4. Differential settlement due to the varying soil and geologic conditions should be anticipated. Structures that can tolerate differential settlements should be designed for these conditions.

We recommend that the project geologist of record assist the design team in locating the proposed buildings in areas of cut/fill transitions where fills of 5 feet or greater in thickness are required. Uniform graded pads for buildings on lots with cut/fill transitions is recommended. The minimum depth of over-excavation should be subject to review by the project geotechnical engineer of record.

Alwandin 3 Zinn Geology If the residences will be founded on conventional shallow foundations, we recommend that the project engineers develop a foundation and grading scheme that will create uniform bearing conditions for the structural foundation elements on the site in order to mitigate the differential settlement hazard.

If pier and grade beam foundations are utilized for the residences, we recommend that the project geologist and the project geotechnical engineer observe the drilling of the piers and solely determine the location of competent bedrock to be used for the embedment depth.

5. We recommend that all drainage from improved surfaces such as walkways, patios, roofs and driveways be collected in impermeable gutters or pipes and carried to a drainage system or natural drainage course. However, no water generated or collected for the development should be discharged or allowed to flow onto any mapped landslides or into any existing gullies or rills. At no time should any concentrated discharge be allowed to spill directly onto the ground adjacent to the proposed developments. Any water landing on paved areas should not be allowed to flow toward the proposed developments. At no time should concentrated runoff be allowed to spill onto steep slopes or to pond above steep slopes. Where development may interrupt natural drainage channels, a drainage scheme should be instituted to redirect runoff into natural drainages. The control of runoff is essential for erosion control and prevention of ponding water against embankments, cut banks, structure foundation, etc.

We do <u>not</u> recommend that any groundwater recharge structures be constructed on the subject properties, as injecting all the drain water from the development into a point source at depth will create an <u>unnatural</u> condition that may trigger future landsliding on the subject properties. As noted above, the preferred method is for all drainage from improved surfaces such as walkways, patios, roofs and driveways to be collected in impermeable gutters or pipes and carried to a natural drainage situated away from landslide deposits on the property.

The project geologist of record should review any future or forthcoming drainage plans for consistency with our geologic conclusions and recommendations. The designer or project civil engineer should also consult the County of Santa Cruz erosion control ordinances for additional requirements and restrictions.

Control of runoff water is the single most important thing developers and homeowners can do to reduce the potential for erosion. Avoiding the concentrated disposal of surface water runoff into existing drainages may significantly slow the development of the gullies and rills.

Where the proposed development may be significantly impacted by erosion due to the development of gullies or ravines, formal erosion control measures should be employed.

- 6. We recommend that the project geotechnical engineer, civil engineer, sanitarian, landscape architect and architect carefully review this report, particularly in regard to slope stability issues that may arise from grading, erosion control, irrigation and landscaping designs that don't adequately take the existing geologic conditions into account. We also recommend that the project geotechnical engineer and geologist of record be retained to review any plans issued by the aforementioned design professionals in the future to ensure that the conclusions and recommendations of this report have been properly implemented.
- 7. Our firm should be accorded the privilege of reviewing any additional geotechnical or geologic reports for this project and any new civil engineering plans, so that our recommendations may be properly interpreted and implemented. We do not intend to approve or disapprove the plans, but to provide an opportunity to update the this report and include additions or qualifications as necessary. If our firm is not accorded the opportunity of making the recommended review, we can assume no responsibility for misinterpretation of our recommendations.
- 8. We recommend that a representative from our firm be retained to inspect any future cuts made during grading for the foundation, prior to placement of the fill and construction of the footings. It is important for grading contractors to note that this includes observation of any keyways constructed for the fill, as well as for drilled piers.

Field observation must be provided by a representative of Zinn Geology to enable us to form an opinion as to the degree of conformance of the site conditions exposed during construction to those described in our geologic report, and the extent to which the excavations (including pier holes) and drilling comply with the specification requirements. Any work related to excavation or drilling that is performed without the full knowledge and direct observation of Zinn Geology, the Project Geologist Of Record. will render the recommendations of our report invalid.

We strongly recommend that home owners implement the simple safety procedures outlined by Peter Yanev in his book, *Peace of Mind in Earthquake Country*. This book contains a wealth of information regarding earthquakes, seismic design, and precautions that the individual home owner can take to reduce the potential for loss of life, injury and property damage.

Revised 22 February 2011

Job #2006002-G-SC

Diversified Income Planning, Inc. Attention: David J. Weiss 1840 41st Avenue, #102-131 Capitola, California 95010-2527

Re: Response to County of Santa Cruz comments
Alta Vista Oceanview Estates
Watsonville, California 95076
County of Santa Cruz APN 107-011-06

Dear Mr. Weiss:

The County of Santa Cruz Planning Department's generated a letter, dated 7 April 2010, summarizing why they believe your application to be incomplete, with a series of requested additional information from various staff members in the Planning Department and Public Works Department. We have responded to the specific requests that are germane to our profession with this letter and its' appendices.

This letter represents a body of work that has been performed in phases since last summer. Our scope of services leading up to the production of this letter is as follows:

1. A meeting at the County of Santa Cruz Planning Department with your design team and key County personnel.

2. A field trip across your site with your Project Planner, Jim Weaver of Pacific Rim Planning Group, and County of Santa Cruz staff, Robin Bolster, Joseph Hanna and Carolyn Banti. The objective of the field trip was to focus on the issues surrounding the secondary access road and to attempt to negotiate an acceptable scope of work that would satisfy the County staff's requirements for this phase of the project.

3. A field traverse of the secondary access road with yourself, Jim Weaver, your Project Civil Engineer, Joe Akers & Associates and your Project Geotechnical Engineer, Brian Bauldry of Bauldry Engineering.

4. Mapping and photography of select mitigation sites and prospective turnout sites with Joe Akers and Brian Bauldry.

5. Several meetings with different members of the design team throughout this process.

6. Analysis of the data.

ATTALLE V

Response to COSC request for additional information

Job #2006002-G-SG

Revised 22 February 2011

Page 2

7. Production of this letter with accompanying graphics.

The body of the text for this letter is organized similar to the County of Santa Cruz letter dated 7 April 2010. We have attempted to utilize their sectional divisions and enumeration for the sake of consistency.

Development Review (by Robin Bolster-Grant)

Item 4, Page 3

We have only addressed the issue of the secondary access road in this letter. The reader should refer to the responses by other members of the design team for the primary access road issues.

During our meetings and field trips with County personnel, it became apparent that mapping and performing detailed site-specific engineering calculations and plan preparation for the entire length of the secondary access road would be an onerous task for the design team, which would prove to be prohibitively expensive for a phase of this project whose main objective is to verify technical feasibility of the proposed improvements. We therefore procured permission from the staff to perform a reconnaissance-level observation and recording of the sites requiring mitigation and prospective turnouts along the length of the secondary access road. We toured the secondary access road with Robin Bolster-Grant, Joseph Hanna and Carolyn Banti, prior to finalizing our conclusions and recommendations for the secondary access road. During our tour, we explored the potential mitigation schemes that might work for the road.

We have summarized our geological conclusions and recommendations for the secondary access road with short notes and a one inch equals two hundred foot map that shows the approximate location of the mitigation sites and prospective turnout sites. The reader should turn to Appendix A for the notes and correlative photographs and the rear pockets for a copy of Plate 1 which shows the location of the sites in plan view.

The upshot of our supplemental work for the secondary access road is that the road is geologically feasible, provided that the recommended mitigation outlined in Appendix A is performed at the enumerated sites shown on Plate 1, along with the work prescribed for the prospective turnout sites (Appendix B).

Environmental Planning (by Joe Hanna)

Item 1, Page 3

As noted above, detailed grading plans were not prepared for the secondary access road. The products associated with the secondary access road are summarized in our response to Robin Bolster-Grant's Item 4 on page 3.

ZINN GEOLOGY EXHIBIT E

Response to COSC request for additional information Job #2006002-G-SC Revised 22 February 2011 Page 3

Item 2, Page 3

As noted above, plans were not prepared for the secondary access road. The products associated with the secondary access road are summarized in our response to Robin Bolster-Grant's Item 4 on page 3. We have issued brief comments and recommendations regarding the issues identified at the mitigation sites and the prospective turnout sites.

Item 3, Page 3

None of the products that our design team has produced have depicted a "closed depression" in plan view on the property. We assume that Mr. Hanna is referring to the County lidar generated topographic contours (1 foot pixels from lidar work performed by County vendor in 2008). The topographic contours shown on that map depict a long, narrow closed depression on the property, elongated in a northwesterly direction.

The county lidar map does not accurately depict the conditions on the ground, probably due to the dense forest and brush cover. There is indeed a linear swale in this area, associated with a fault zone, but the swale drains and is not a "closed depression".

Furthermore, the surface drainage for the proposed subdivision laid out by Joe Akers does not dispose of surface water in the vicinity of the hypothesized closed depression.

Item 4, Page 3

We have worked with Joe Akers to modify the envelopes in a way that makes our geologically feasible building envelopes consistent with Mr. Akers' building envelopes. The new building envelopes issued by Mr. Akers, on Sheets C4 and C5, dated 28 December 2010, are entirely encompassed by our geologically feasible building envelopes.

Item 5, Page 3

As noted above, plans were not prepared for the secondary access road. The products associated with the secondary access road are summarized in our response to Robin Bolster-Grant's Item 4 on page 3. We have issued brief comments and recommendations regarding the issues identified at the mitigation sites and the prospective turnout sites.

Item 6, Page 3

See attached Plate 2 for the requested geological cross section. We used the original topographic map generated for the property through aerial photogrammetric techniques and field surveying for the Smith Ranch by Darling, Nielsen and Ingram. The cross section was drawn at a scale of 1"-200', which was the most practicable scale, considering the geological elements that needed to be portrayed and the length of the cross section stretching almost 3/4 mile from the ridge crest



Response to COSC request for additional information Job #2006002-G Job #2006002-G Revised 22 February 20 Page

development area downslope to Rider Road. We plotted the alignment of the section on our original landslide compilation map at a scale of 1"=200', drawn under the auspices of Nolan, Zinn and Associates (2003) which depicts the aforementioned topography and our interpretation of landsliding, faulting and rock structure (see Plate 3). We apologize for the size of the scale, but we are attempting to keep the size of the plates for this regional assessment as small as practicable.

Item 7 and Item 8, Pages 3 and 4

We have worked closely with Mr. Bauldry and Mr. Akers to assist them with geological input of the desired drainage systems. We have reviewed Mr. Akers' most recent plans, issued on 28 December 2010, and have deemed the drainage scheme on those plans to be geologically acceptable. The current drainage scheme does differ from that recommended in our report dated 2 October 2009, but as noted above, we have assisted with Mr. Akers and Mr. Bauldry by giving them geological input on the drainage system design so as to have it be geologically suitable.

Mr. Hanna has brought up the concern that the drainage system for the subdivision doesn't conform to the intent of Santa Cruz County code 16.10.070(e)3. That code reads as follows:

"3. Drainage: Drainage plans designed to direct runoff away from unstable areas (as identified from the geologic hazards assessment or other technical report) shall be required. Such plans shall be reviewed and approved by the County Geologist."

The development area sits atop a ridge crest that overlooks a large, deep-seated bedrock landslide to the northeast. All of the natural drainage that falls and flows away from the proposed development does so via sheet flow to the northeast toward the existing landslide. It is important to note that the Project Civil Engineer is caught in the crossfire between different drainage codes in the County of Santa Cruz with conflicting objectives, resulting in the requirement that surface water be directed away from landslides while also requiring that the overall drainage scheme conform to the way that drainage naturally occurs on the site.

If we strictly and solely adhered to the specific code quoted above by the County of Santa Cruz, it would require pumping water up and over the ridge crest, away from the property to the southwest. Either that, or it would require an elaborate system of drains that would have to transport collected and concentrated rainfall obliquely across the hillside of the subdivision to the north-northeast where it could be disposed of with some sort of elaborate metering system in a natural drainage away from the landslide deposit. Both alternatives are not economically viable, nor are they particularly desirable from a geological perspective because they would likely create small scale geologic hazards through routing and disposal.

Finally, Mr. Hanna indicates that "the bio-swale are {sic} concentrating drainage on slopes in areas of mapped landsliding and near the debris flows identified by the engineering geologist."



The nature of the drainage scheme is to disperse it with level spreaders and revert the collected surface water runoff to sheet flow. Furthermore, we have worked closely with Mr. Akers in locating the level spreaders precisely in areas which are geologically suitable in our opinion. We presume that Mr. Hanna is referring to the small mapped debris flow scar slightly downslope from the proposed primary driveway, which appears to have been triggered by existing poorly concentrated roadway drainage, a condition which is actually being ameliorated by the proposed drainage improvements for the subdivision. We also assume that Mr. Hanna is referring to the proposed percolation trench near the terminus of the primary driveway and the cul-de-sac. This location appears to be in intact Purisima Formation sandstone, near the nose of the ridge. It is unlikely that the small volume of water that is being captured for this trench will in and of itself trigger any landsliding, particularly due to the fact that almost all of the drainage for the subdivision is actually being incrementally captured and dispersed via the level spreaders that are scattered along the primary driveway.

It is important to note that remobilization of the landslide has not been triggered by natural drainage conditions, even during the number of El Nino climatic events in the past 40 years that resulted in high seasonal rainfall totals for the Santa Cruz Mountains. Keeping this in mind, we modified our original drainage recommendations by requesting that the drainage collected for the project be broken up into discrete pieces and dispersed via level spreaders and percolation trenches in key locations. This will ensure that the collected drainage is reverted back to sheet flow. Furthermore, no more water is being captured and directed downslope for the proposed developments than is currently already falling on the ridge crest and its' northeastern flank.

In summary, the absolute language of Santa Cruz County Code 16.10.010(e)3 cannot be reasonably met, due to the fact that landslide is large and directly below the proposed subdivision. The landslide has not remobilized in recent historical times during rainfall seasons with high totals, indicating that the renewed movement on the landslide cannot be triggered solely by natural drainage. Hence, we have modified our original drainage recommendations and worked closely with the Project Civil Engineer in developing a drainage system that closely mimics the natural drainage on the property. In our opinion this meets the intent of the code by designing and constructing a drainage system that will not in and of itself trigger landsliding.

Mr. Hanna also requested in item 8 that we revise our recommendation language regarding future site-specific geologic investigations for each parcel. Mr. Hanna correctly interpreted the intent of our recommendation - to provide site specific investigations for each parcel once the development scheme, including detailed grading and drainage plans are known for the proposed residence. We therefore recommend that a revised recommendation number one on page 20 of our 2 October 2009 report should read as follows:

1. We recommend that future site-specific geologic investigations be pursued for individual home sites, pending the location and extent of grading for each proposed home sites.

The intent of this recommendation is to provide supplemental geological recommendations that are tailored to the specific grading and drainage objectives for



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4Th FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **KATHLEN MOLLOY PREVISICH, PLANNING DIRECTOR**

March 20, 2011

Pacific Rim Planning Group 206 Morrissey Blvd. Santa Cruz, CA 95062

Subject:

Review of Engineering Geology by Zinn Geology and Bauldry Engineers;

Dated October 2, 2009 and February 2011, Job # 2006002-G-SC; and,

Geotechnical Engineering Report, Dated January 2010 and February 16, 2011;

Project Number 0602-SZ974-G11

APN 107-011-06, Application #: 10-0069

Dear Pacific Rim Planning Group,

The purpose of this letter is to inform you that the Planning Department has accepted the subject reports and the following items shall be required:

- 1. All construction shall comply with the recommendations of the reports.
- 2. Final plans shall reference the report and include a statement that the project shall conform to the report's recommendations.
- 3. Prior to building permit issuance a *plan review letter(s)* shall be submitted to Environmental Planning. After plans are prepared that are acceptable to all reviewing agencies, please submit a geotechnical plan and engineering geology review letter(s) that state the project plans conform to the recommendations of the reports. *Please note that the letters must reference the final plan set by last revision date.* The authors of the reports shall write the *plan review letters*.
- 4 Please submit an electronic copy of the reports in .pdf format via compact disk or email to: pln829@co.santa-cruz.ca.us. Please note that the reports must be generated and/or sent directly from the consultants of record.
- 5. Prior to acceptance of the site improvements the engineering geologist and geotechnical engineer must review all grading improvements and indicate that the improvements meet the recommendations of their reports.
- 6. A declaration of geologic hazards must be recorded with the project. The declaration will be developed at the time of recordation of the final map.

After building permit issuance the soils engineer *must remain involved with the project* during construction. Please review the *Notice to Permits Holders* (attached).

Our acceptance of the report is limited to its technical content. Other project issues such as zoning, fire safety, septic or sewer approval, etc. may require resolution by other agencies.

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Review of Engineering Geology and Geotechnical Engineering Report, Project: 2006002-G-SC and 0602-SZ974-G11 (respectively)

APN: 107-011-06

Page 2 of 3

Please note that this determination may be appealed within 14 calendar days of the date of service. Additional information regarding the appeals process may be found online at: http://www.sccoplanning.com/html/devrev/plnappeal_bldg.htm

Please call the undersigned at (831) 454-3175 if we can be of any further assistance.

Sincerely)

Joe Hanna CEG 1313 County Geologist Carolyn Banti Civil Engineer

Cc:

Robin Bolster, Environmental Planning Zinn Geology and Bauldry Engineers owner (if different from applicant)

NOTICE TO PERMIT HOLDERS WHEN A SOILS REPORT HAS BEEN PREPARED. REVIEWED AND ACCEPTED FOR THE PROJECT

After issuance of the building permit, the County requires your soils engineer and engineering geologist to be involved during construction. Several letters or reports are required to be submitted to the County at various times during construction. They are as follows:

- 1. When a project has engineered fills and / or grading, a letter from your soils engineer must be submitted to the Environmental Planning section of the Planning Department prior to foundations being excavated. This letter must state that the grading has been completed in conformance with the recommendations of the soils report. Compaction reports or a summary thereof must be submitted.
- 2. Prior to placing concrete for foundations, a letter from the soils engineer must be submitted to the building inspector and to Environmental Planning stating that the soils engineer has observed the foundation excavation and that it meets the recommendations of the soils report.
- 3. At the completion of construction, a final letter(s) from your soils engineer and engineering geologist is (are) required to be submitted to Environmental Planning that summarizes the observations and the tests that have been made during construction. The final letter(s) must also state the following: "Based upon our observations and tests, the project has been completed in conformance with our recommendations."

If the final letters identifies any items of work remaining to be completed or that any portions of the project were not observed by the soils engineer or engineering geologist, you will be required to complete the remaining items of work and may be required to perform destructive testing in order for your permit to obtain a final inspection.

Bauldry Engineering, Inc.

CONSULTING GEOTECHNICAL ENGINEERS

718 SOQUEL AVENUE. SANTA CRUZ. CA 95062

(831:457-1223

/AX ·831 · 457 · 1225 0602-SZ974-G11 January 7, 2010

Diversified Income Planning, Inc. 1840 41st Avenue, #102-131 Capitola, California 95010-2527

Attention: David Weiss

Subject: Geotechnical Investigation

Proposed 7 Lot Subdivision Alta Vista Ocean View Estates

Telford Drive

Santa Cruz County, California

APN 107-011-06

Dear Mr. Weiss,

In accordance with your authorization, we have performed a geotechnical investigation for your proposed project located in Santa Cruz County, California.

The accompanying report presents our conclusions and recommendations as well as the results of the geotechnical investigation on which they are based. The conclusions and recommendations presented in this report are contingent upon our review of the plans during the design phase of the project, and our observation and testing during the construction phase of the project.

If you have any questions concerning the data, conclusions, or recommendations presented in this report, please call our office.

Very truly yours,

No. 2479

Bhan BoBauldry
Phholipal/Engineer

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CIVIL STEEDER CHOME Project Engineer R.C.E. 68398

Exp. 9/30/11

No. 88398

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Copies:

1 to David Weiss

4 to Jim Weaver - Pacific Rim Planning Group

1 to Erik Zinn – Zinn Geology (via email)

1 to Joe Akers – Akers and Associates (via email)

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GEOTECHNICAL INVESTIGATION

PURPOSE OF INVESTIGATION

The purpose of our investigation was to explore the subsurface conditions in the area of the proposed development, and based on our findings provide geotechnical engineering recommendations for the proposed subdivision.

SCOPE OF SERVICES

This report describes the geotechnical investigation and presents results, including recommendations, for the proposed development. If the proposed design and construction differ significantly from that planned at the time this report was written, the conclusions and recommendations provided in this report are null and void unless the changes are reviewed by our firm, and the conclusions and recommendations presented in this report are modified, or verified, in writing.

Our scope of services for this project has consisted of:

- 1. Discussions with Jim Weaver the project planner, Erik Zinn the project geologist, and Andrew Brownstone the project sanitarian.
- Review of the following maps and reports:
 - a. Preliminary Subdivision Plans, Alta Vista Ocean View Estates, APN 107-011-06, prepared by Joe Akers, Sheets C1-C18, Dated 11.13.09.
 - b. Geologic Investigation for Proposed Subdivision, Alta Vista Ocean View Estates, Telford Drive, County of Santa Cruz, APN 107-011-06, prepared by Zinn Geology, Dated 2 October 2009
 - c. Geologic Map of Santa Cruz County, California, Brabb, 1989.
 - d. Preliminary Landslide Deposits in Santa Cruz County, California, Cooper-Clark and Associates, 1975.
 - e. Map Showing Quaternary Geology and Liquefaction Potential of Santa Cruz County, California, Dupré, 1975.
 - f. Map Showing Faults and Their Potential Hazards in Santa Cruz County, California; Hall, Sarna-Wojcicki, Dupré, 1974.
 - g. Geographic Information System Santa Cruz County, "GISWEB Interactive Mapping Application" http://gis.co.santa-cruz.ca.us/internet/wwwgisweb/viewer.htm.
- 3. The drilling and logging of 18 test borings, 14 of which are presented in this report. The other 4 borings were located outside of the currently proposed subdivision and were drilled during our Feasibility Study dated February 7, 2007.
- 4. Laboratory analysis of retrieved soil samples.
- 5. Engineering analysis of the field and laboratory results.
- 6. Preparation of this report documenting our investigation and presenting recommendations for the design of the project.

PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS

PRIMARY GEOTECHNICAL ISSUES

1. Site Viability

The results of our investigation indicate that from a geotechnical engineering standpoint the areas of the proposed geologically suitable building envelopes are appropriate for residential development, provided our recommendations and the recommendations included in the Geologic Investigation prepared by Zinn Geology are implemented. It is our opinion that provided our recommendations are followed; the proposed access road and residences can be designed and constructed to an "ordinary" level of seismic and non-seismic risk as defined in Appendix C of this report.

If the property owner desires a higher level of performance for this project, supplemental design and construction recommendations will be required.

Site specific geotechnical investigations for each parcel will be required once a development scheme has been determined. This may include additional subsurface work in order to confirm soil conditions within proposed building footprints and driveways. All conclusions and recommendations presented herein are subject to review at that time. The recommendations provided in this report may be amended and will depend on the findings of supplemental investigations as well as final design.

2. Primary Geotechnical Constraints

Based on our field and laboratory investigations, it is our opinion that the primary geotechnical issues associated with the design and construction of the proposed subdivision including the access road, the proposed single family residences and their attendant driveways are the following:

a. Loose surficial soils within proposed roadway alignment. Loose near surface soils were observed along the proposed access road which will be constructed using cut/fill techniques. The proposed maximum cut and fill heights are on the order of 9 feet and 10 feet, respectively. Settlement may occur beneath the roadway and fill slopes which may damage the pavement and affect the proposed surface drainage characteristics if the surficial soils are left in place.

To mitigate the potential for adverse settlement to occur, we recommend removal and recompaction of the loose near surface soils in the roadway and beneath the deeper fills on the project. At a minimum this will consist of the upper 2 feet of subgrade in roadway areas. Additionally, fill slope keyways may be deepened as necessary when conditions become exposed in the field during construction. Refer to the Earthwork and Grading section of this report for recommendations pertaining to subgrade preparation and cut and fill slope construction.

b. Coseismic ground cracking The project Geologist has recommended all proposed structures be designed to accommodate up to ½ inch vertical and 2 inches horizontal offset due to potential future ground cracking until more refined site specific studies can be performed when building footprints are established.

We recommend that these structures be founded on a structural mat or structural grid foundation system that is designed to resist horizontal and vertical displacement of the ground surface should it occur. Additionally, building pads should be constructed by overexcavation and recompaction of the bearing soils and placement of reinforcing geotextile at the bottom of these excavations. Refer to the Subgrade Preparation and Foundation sections of this report for details.

c. Seismically Induced Settlement of Dry Sand. Our analysis indicates that there is a potential for earthquake-induced settlement to occur due to the generally loose to very loose condition of the sand that overlies the sandstone formation at the subject site.

To mitigate the adverse affects of seismically induced settlement, should it occur, we recommend that the foundation systems for the proposed structures be designed to move as a unit, resist differential ground settlement and span seismically induced voids. The building should be designed to tolerate releveling, should this become necessary. Preliminary design recommendations are provided in the Foundations section of this report.

- d. Stability of Slope south of Lot 1. The southwestern flank of the ridge in the vicinity of Lot 1 is moderately sloping and some erosion and shallow slope failure has been observed. Based on our quantitative slope stability analysis and the recommendation of Zinn Geology, the building envelope for Lot 1 shall be set back a minimum of 40 feet from the crest of the southern slope.
- e. Cut/fill transition building pads. The building envelopes for the proposed subdivision are situated on gently sloping terrain which will require cuts and fills to construct relatively flat building pads. Differential settlement may occur between the cut and fill sides of proposed structures if mitigation measures are not implemented.

To help mitigate the problems associated with differential settlement, we recommend overexcavation and recompaction of the entire building pad in order to construct more uniform bearing conditions. Refer to the Subgrade Preparation section of this report for details.

POST REPORT SERVICES

3. Plan Review

Bauldry Engineering should be retained to review the proposed subdivision plans including grading, foundation, retaining wall and drainage plans during their preparation and prior to contract bidding to insure that the recommendations of this report have been included and to provide additional recommendations, if needed.

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4. Construction Observation and Testing

Field observation and testing must be provided during construction by a representative of Bauldry Engineering, Inc. to enable them to form an opinion regarding the adequacy of the site preparation, the acceptability of fill materials, and the extent to which the foundation, retaining wall, drainage, and earthwork construction, including the degree of compaction, comply with the specification requirements. Any work related to foundation, retaining wall, drainage, or earthwork construction, or grading performed without the full knowledge of, and not under the direct observation of Bauldry Engineering, Inc., the Geotechnical Engineer, will render the recommendations of this report null and void.

5. Notification and Preconstruction Meeting

The Geotechnical Engineer should be notified at least four (4) working days prior to any site clearing and grading operations on the property in order to observe the stripping and disposal of unsuitable materials, and to coordinate this work with the grading contractor. During this period, a pre-construction conference should be held on the site, with at least the owner's representative, the grading contractor and one of our engineers present. At this time, the project specifications and the testing and construction observation requirements will be outlined and discussed.

EARTHWORK AND GRADING

6. Initial Site Preparation

The initial site preparation for the proposed roadway and individual driveways and building pads will consist of the removal of trees as required, including rootballs and debris. Abandoned septic tanks and leaching lines found in the construction area must be completely removed. The extent of the soil, debris, and leach line removal will be designated by the Geotechnical Engineer in the field. This material must be removed from the site. All voids created by the removal of trees, septic tanks, and leach lines must be backfilled with properly compacted native soils that are free of organic and other deleterious materials or with approved import fill.

NOTE: Any abandoned wells encountered shall be capped in accordance with the requirements of the County Health Department. The strength of the cap shall be equal to the adjacent soil and shall not be located within 5 feet of a structural footing.

7. Stripping

Following the initial site preparation, surface vegetation and organically contaminated topsoil should be stripped from the area to be graded. This organic rich soil may be stockpiled for future landscaping. The required depth of stripping will vary with the time of year and must be based upon visual observations of the Geotechnical Engineer. It is anticipated that the depth of stripping may be 2 to 4 inches.

8. Subgrade Preparation

Access Road: Following the stripping, the exposed soils beneath the access road should be removed to a minimum depth of 24 inches below existing grade or design grades or as designated by the Geotechnical Engineer, whichever is deeper. The earth materials exposed at the base of the excavation should be scarified, moisture conditioned and compacted. The excavated soil may then be placed in thin lifts. This should result in a minimum 18 inches of engineered fill beneath the pavement and baserock section. Recompacted sections should extend 2 feet beyond pavement areas.

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Building Pads and Driveways: In preparation for a structural mat or a structural grid foundation system, the exposed soils in the building areas should be removed to a minimum depth of 48 inches below existing grade or as designated by the Geotechnical Engineer. The earth materials exposed at the base of the excavation should be scarified, moisture conditioned and compacted. A layer of Mirafi HP570 Geotextile, or equivalent, should then be placed at the bottom of the excavation. The excavated soil may then be placed in thin lifts. This should result in a minimum 36 inches of engineered fill beneath all foundation elements. The excavation and recompaction in the driveway areas should extend to a minimum depth of 24 inches below the original ground surface and should result in a minimum of 12 inches of recompacted material below all driveway sections. Recompacted sections should extend 5 feet beyond building footprints and 2 feet beyond driveway areas.

The proposed building pads are likely to consist of both cuts and fills. Additional overexcavation of the cut side of the building pads may become necessary in order to balance fill thicknesses between the cut and fill sides of the pad. A fill differential in excess of 5 feet is not recommended beneath the proposed structures.

9. Compaction Requirements

With the exception of the upper 8 inches of subgrade in paved areas and driveways, the soil on the project should be compacted to a minimum of 90% of its maximum dry density. The upper 8 inches of subgrade in the pavement areas and all aggregate subbase and aggregate base should be compacted to a minimum of 95% of its maximum dry density.

The maximum dry density will be obtained from a laboratory compaction curve run in accordance with ASTM Procedure #D1557. This test will also establish the optimum moisture content of the material. Field density testing will be in accordance with ASTM Test #D2922.

10. Moisture Conditioning

The moisture conditioning procedure should result in soil with a relatively uniform moisture content of 1 to 3 percent over optimum at the time of compaction. If the soil is dry water may need to be added. If the soil is wet, it will need to be dried back. The native soil may require a diligent and active drying and/or mixing operation to reduce or raise the moisture content to the levels required to obtain adequate compaction.

11. Engineered Fill Material

The native soil and/or imported fill may be used as engineered fill for the project as indicated below.

Re-use of the native soil will require the following:

- a. Segregation of all expansive soil encountered during the excavation operation under the observation of the Geotechnical Engineer. All excavated expansive soil should be removed from the construction area.
- b. Removal of organics, deleterious material, and cobbles larger than 2 inches.
- c. Thorough mixing and moisture conditioning of approved native soil.

All imported engineered fill material should meet the criteria outlined below:

- a. Granular, well graded, with sufficient binder to allow utility trenches to stand open.
- b. Minimum Sand Equivalent of 20 and Resistance "R" Value of 30.
- Free of deleterious material, organics and rocks larger than 2 inches in size.
- d. Non-expansive with a Plasticity Index below 12.

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Samples of any proposed imported fill planned for use on this project should be submitted to the Geotechnical Engineer for appropriate testing and approval not less than 4 working days before the anticipated jobsite delivery.

12. Erosion Control

The surface soils are classified as moderately to highly erodable. All finished and disturbed ground surfaces, including all cut and fill slopes, should be prepared and maintained to reduce erosion. This work, at a minimum, should include track rolling of the slopes and effective planting. The protection of the slopes should be installed as soon as practicable so that sufficient growth will be established prior to inclement weather conditions. It is vital that no slope be left standing through a winter season without the erosion control measures having been provided. The ground cover should be continually maintained to minimize surface erosion.

CUT AND FILL SLOPES

13. Cut and Fill Slope Height and Gradient

Cut and fill slopes shall not exceed a 2:1 (horizontal to vertical) gradient and a 10 foot vertical height unless specifically reviewed by the Geotechnical Engineer. All fill slopes should be constructed with engineered fill meeting the minimum density requirements of this report. Where the vertical height exceeds 15 feet, intermediate benches may be required. These benches should be at least 6 feet wide and sloped to control surface drainage. A lined ditch should be used on the bench. The above recommended gradients do not preclude periodic maintenance of the slopes, as minor sloughing and erosion may take place.

14. Fill Slope Keyways

Fill slopes should be keyed into the native slopes with a 10 foot wide base keyway that is sloped negatively at least 2% into the bank. The depth of the keyways will vary, depending on the materials encountered. It is anticipated that the depth of the keyways may be 3 to 6 feet, but at all locations shall be at least 2 feet into firm material. Subsequent keys may be required as the fill section progress upslope. The Geotechnical Engineer will designate keys in the field. See the Keyway Detail in Appendix A for general details.

15. Subsurface Drainage

Our recommended cut and fill slope gradients assume that the soil moisture is a result of precipitation penetrating the slope face, and not a result of subsurface seeps or springs, which can destabilize slopes with hydrostatic pressure. All groundwater seeps encountered during construction should be adequately drained to maintain stable slopes at the recommended gradients. Drainage facilities may include subdrains, gravel blankets, rock-filled surface trenches or horizontally drains. The Geotechnical Engineer will determine the drainage facilities required during the grading operations.

16. Fill Slope Setbacks

The toe of all unretained fill slopes should be set back at least 12 feet horizontally from the top of any existing cut or fill slopes. A lateral surface drain should be placed between the toe of the fill slope and the top of the existing cut or fill slope.

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FOUNDATIONS - STRUCTURAL MAT OR GRID

17. General

To mitigate the potential for excessive damage caused by coseismic ground cracking and seismically induced settlement, it is our opinion that a structural mat or a structural footing grid is an appropriate foundation system to support the proposed single family residences at the subject site.

This type of foundation system should be capable of withstanding a total settlement of 2 inches, a differential settlement of 1 inch across the least dimension of the structure and small vertical and horizontal offsets. In addition, the rigid foundation system should be designed for a total loss of soil support over an area with a 5 foot diameter occurring anywhere beneath the structure. Structures should be designed to tolerate re-leveling, should this become necessary

Stepped foundations could accentuate the effects of coseismic ground cracking and are not advisable. Additional recommendations will be required if such a foundation system is proposed.

Structural mats and grids must be underlain by the reinforced engineered fill pad constructed in accordance with the recommendations provided in the Earthwork and Grading section of this report.

Foundations should be set back from the top and toe of slopes in accordance with County guidelines, unless an alternative is approved by our office.

All foundation excavations must be observed by a representative of Bauldry Engineering, Inc. before steel is placed and concrete is poured to insure firm subgrade conditions.

The foundation excavations should be adequately moisture conditioned prior to placing concrete. Requirements for moisture conditioning the subgrade will depend on the soil type and seasonal moisture conditions, and will be determined by the Geotechnical Engineer at the time of construction.

18. Design Criteria

Structural mat and grid foundation systems constructed to the given criteria shall be designed for an allowable bearing capacity of 1,500 psf. The allowable bearing capacity may be increased by 1/3 for short duration loads such as those imposed by wind and seismic forces.

The mat or grid foundation system may be designed using a "coefficient of friction" of 0.35 between the base of the slab/grid and the subgrade soils.

For structural grids, footing widths should be based on allowable bearing values but not less than 18 inches. For 1 and 2 story structures, footings shall have a minimum embedment depth of 18 inches measured from lowest adjacent grade.

19. Moisture Control – Capillary Break

Structural slabs should be underlain by a minimum 4 inch thick capillary break of ¾ inch clean crushed rock. Neither Class 2 baserock nor sand should be used as the capillary break material.

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Where floor coverings are anticipated or vapor transmission may be a problem, a vapor retarder should be placed between the capillary break and the floor slab in order to reduce the potential for moisture to condensate under the floor coverings. We recommend using a robust vapor retarder such as Stego Wrap Class A Vapor Retarder, or an equivalent system, that has been designed to retard the passage of moisture from the ground into concrete slab-on-grade floors. Proprietary vapor retarders and moisture control systems must be designed and installed in accordance with the manufacturer's specifications.

NOTE: We have provided generalized recommendations associated with standard construction practices for the reduction of moisture transmission through concrete slab-on-grade floors. Bauldry Engineering, Inc. is not a moisture-proofing specialist. A waterproofing or moisture proofing specialist should be consulted for project specific moisture protection recommendations.

RETAINING WALLS

20. General

For retaining walls detached from structures, general recommendations are presented below. Retaining walls structurally integrated with structures may require additional recommendations once the proposed configuration is determined.

21. Foundations

Retaining walls may be founded using a spread footing foundation system. All footings should be embedded such that the base of the footing is a minimum of 18 inches into firm native soil and a minimum of 5 horizontal feet from the face of adjacent slopes.

Retaining wall footings may be designed for the following allowable bearing capacities. Should the footing sizes vary significantly from those provided below, supplemental design criteria should be provided.

Retaining Wall Footings

Footing Width	Embedment Depth*	Bearing Capacity
3 feet	18 inches	1,800 psf
4 feet	18 inches	2,100 psf
5 feet	18 inches	2,400 psf
6 feet	18 inches	2,700 psf

^{*}Footing embedment depths are measured from lowest adjacent grade.

Design for a "coefficient of friction" of 0.35 between the base of footing and the soil.

22. Lateral Pressures

The retaining wall should be fully drained and designed using the following criteria:

a. When walls are free to yield an amount sufficient to develop the active earth pressure condition (about ½% of height), design for active earth pressures as listed below. When walls are restrained at the top design for at-rest pressures.

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Slope of Backfill	Active Earth Pressure	At-Rest Earth Pressure
Horizontal	40 psf/ft of depth	62 psf/ft of depth
2:1 (H:V)	60 psf/ft of depth	85 psf/ft of depth

Should the slope behind retaining walls be other than horizontal or 2:1 (H:V), supplemental design criteria will be provided for the active earth or at rest pressures for the particular slope angle.

- b. For spread footings, use a resisting passive earth pressure against the footing of 350 psf/ft of depth. Neglect passive pressure in the upper 12 inches of soil.
- c. For live or dead loads which transmit a force to the wall refer to the Surcharge Pressure Diagram in Appendix A.
- d. Seismic forces should be applied to retaining walls as determined by the project structural engineer in accordance with applicable codes and standards. The lateral seismic forces listed in the following table are based on the Seed and Whitman pseudostatic method of analysis. The resultant seismic force on the wall acts at a point 0.6H up from the base of the wall. H is the height of the retained soil in feet. Supplemental recommendations will be provided if the structural engineer requires an alternative method of analysis.

Restraint Condition	Resultant Seismic Force (lbs)
Free to Yield (active pressure condition)	11 H²
Non-Yielding (at-rest pressure condition)	31 H²

23. Back Drain

The above criteria are based on fully drained conditions. We recommend the retaining wall be constructed with a drain in accordance with the Retaining Wall Drain Detail, in Appendix A, meeting the following criteria:

- a. The drain should be constructed using permeable material meeting the State of California Standard Specification Section 68-1.025, Class 1, Type A.
- b. The permeable material should be a minimum of 12 inches in width and should extend to within 12 inches of the ground surface.
- c. Mirafi 140 filter fabric, or equivalent, should be placed horizontally over the top of the permeable material and then compacted native soil placed to the ground surface.
- d. A 4-inch diameter rigid perforated plastic or metal drainpipe should be placed 3 inches above the base of the permeable material.
- e. The drain line should discharged to an approved location away from the retaining wall and other structures.



24. Surface Drainage

Retaining walls should be constructed with measures that prevent surface drainage from flowing over the top of the walls. A lined "V" ditch should be constructed adjacent to and along the top of walls, where necessary, to collect surface runoff from slopes directly above retaining walls. Cobbles placed over Mirafi 140 filter fabric, or equivalent, may be used to line "V" ditches. Surface runoff collected in "V" ditches should be transported via closed conduit and discharged at an approved location away from walls and other structures.

25. Compaction of Backfill

The area behind the wall and permeable material should be compacted with approved non-expansive soil to a minimum relative dry density of 90%.

UTILITIES

26. Set Backs

Utility trenches that are parallel to the sides of buildings should be placed so that they do not extend below a line with a 2:1 (H:V) gradient extending from the bottom outside edge of all footings.

27. Utility Trench Backfill

Trenches may be backfilled with the native materials or approved import granular material. The backfill soil should be compacted in thin lifts to a minimum of 95% of its maximum dry density in paved areas and 90% in all other areas. Jetting of the trench backfill is not recommended.

28. Shoring

Trenches must be shored as required by the local agency and the State of California Division of Industrial Safety construction safety orders.

29. Utility Connections

Utility lines connected to structures should be designed to mitigate potential damage resulting from the settlement of structures. Utility lines should be provided with flexible connections able to accommodate the total settlement listed in the Foundations section of this report.

SURFACE DRAINAGE

30. Surface Grades and Storm Water Runoff

Water must not be allowed to pond on building pads, parking areas or adjacent to foundations. Final grades should slope away from foundations such that water is rapidly transported to drainage facilities.

Concentrated surface water including roof discharge should be controlled using lined ditches, catch basins, and closed conduit piping, or other appropriate facilities, and should be discharged at an approved location away from structures and graded areas. We recommend that concentrated storm water runoff systems be provided with energy dissipators that minimize erosion.

31. Roof Discharge

All roof eaves should be guttered, with the outlets from the downspouts provided with adequate capacity to carry the storm water away from the structures and graded areas.

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32. Drain Pipes

Subsurface pipes used in storm water runoff systems must be robust rigid solid pipes capable of supporting the overburden loads. Flexible corrugated pipes must not be used.

33. Maintenance

The building and surface drainage facilities must not be altered, and there should be no modifications of the finished grades at the project site without first consulting Bauldry Engineering, Inc.

The building and surface drainage facilities must be inspected and maintained on a routine basis. Repairs, whenever necessary, must be made in a timely manner. We recommend that the property owner inspect the drainage systems prior to each rainy season, following the first significant rain, and throughout each rainy season. The civil and geotechnical engineers should be consulted if significant erosion or other drainage problems occur so that the conditions can be observed and supplemental recommendations can be provided, as necessary.

34. Stability of Slopes

Controlling surface drainage and landscape irrigation is <u>critical</u> to the long-term stability of the slopes at the subject site. It is imperative that irrigation activities and all concentrated surface water be effectively controlled. Uncontrolled surface drainage could cause slope instability.

35. Percolation Pits

Percolation pits are not an acceptable means for the disposal of storm water runoff at the project site. By saturating the subsurface soils, percolation pits would increase the potential for slope failure and are not recommended.

PAVEMENT DESIGN

36. General

The design of the pavement section was beyond our scope of services for this project. To have the selected pavement sections perform to their greatest efficiency, it is very important that the following items be considered:

- a. Properly moisture condition the subgrade and compact it to a minimum of 95% of its maximum dry density, at a moisture content 1-3% over the optimum moisture content.
- b. Provide sufficient gradient to prevent ponding of water.
- c. Use only quality materials of the type and thickness (minimum) specified. All baserock must meet CALTRANS Standard Specifications for Class 2 Aggregate Base, and be angular in shape.
- d. Compact the base and subbase uniformly to a minimum of 95% of its maximum dry density.
- e. Place the asphaltic concrete only during periods of fair weather when the free air temperature is within prescribed limits.
- f. Maintenance should be undertaken on a routine basis.





- Site Evaluation & Mapping

Soil Analysis & Percolation TestingNew Development or Repairs

• Residential or Commercial

Tel: (831) 430-9116

Alternative Wastewater System Design

A Limited Liability Company

andrew@biosphere-consulting.com

August 14, 2006

650 Rethany Drive

Scotts Valley, CA 95066

Ruben Sanchez, REHS County of Santa Cruz Environmental Health Service 701 Ocean St., Room 312 Santa Cruz, CA 95060

SUBJECT: Results of Site Evaluation for Septic System Feasibility

APN: 107-071-02 - Telford Drive, Corralitos, California

Dear Mr. Sanchez:

The purpose of this letter is to inform you that I have completed my site evaluation of the subject property located at the end of Telford Drive and consider the areas tested to be feasible with regards to installing conventional septic systems that meets requirements outlined in Chapter 7.38 of the county ordinance. I am writing on the behalf of the property owner David Weiss at the request of his land-used planning consultant Joel Schwartz. No portion of this evaluation pertains to potential risks posed by geologic hazards.

The 140.8 acre parcel was analyzed for the purposes of designing and permitting a septic system to serve new residential development on each of seven proposed lot subdivisions. Seven backhoe test-pits (T-1 through T-7) were excavated on June 15, 2006 to allow observation of the soil profile in each of the areas proposed for effluent dispersal. You were present, representing the County of Santa Cruz Environmental Health Service (EHS) to inspect the soils exposed in each of the test-pits. The general site characteristics are presented along with analysis of soil type, percolation rate and groundwater activity. Conclusions are drawn regarding recommended design of septic dispersal systems on each lot.

General Site Characteristics

The subject area incorporates moderately sloping rolling topography along the east side of a prominent ridge that is situated between 1,900 and 2,000 feet in elevation above sea level. The slope gradients in the areas tested range from approximately 8%-20%. No seasonal drainages or springs were identified within 200' of the areas tested. The entire area tested is mapped as being underlain by Santa Cruz County Soil Survey soil type 111-Ben Lomond sandy loam. The permeability of this soil type is described as being moderately rapid. The local geologic map depicts the site as being underlain by a thick sequence of sandstone belonging to the Purisima Formation (Tp). Vegetation in the areas tested is primarily wild grasses with scattered shrubs and oak, madrone and pine trees.

Discussion of Site Evaluation

Soil textures and horizons varied only minimally in the seven backhoe test pits advanced over a distance of approximately 1,500'. The texture of the soils exposed in the backhoe test-pits, are primarily classified as sandy loam to loamy sand across the site. Soils were observed to have a slightly higher clay content to the northwest (nearer proposed lot #7). A thin (8" to 18") layer of indurated siltstone was observed at depths of approximately 10' to 12' in the test pits excavated on lots #3, #4 and #5. Aside from this discontinuous siltstone layer, three general soil horizons were identified in each of the seven test-pits. From about 0 to 5' below grade the soils were typically very dark grayish-brown (10YR 3/2) to dark yellowish-brown (10YR 4/4), fine- to medium-grained sandy loam. These upper "A" / "A/B" horizon soils had a moderate, subangular blocky structure with common small pores and roots and were very friable, with a nonsticky, non-plastic moist consistency. The soils from about 5' to 11' were typically brown (10YR 4/3), fine- to medium-grained sandy loam. These soils comprised of "B" / "B/C" soil horizons which had a moderate, angular blocky structure with few pores, no roots and a friable, non-sticky, non-plastic moist consistency. Below 11', the soils were typically brown (10YR 4/3), very friable, weathered, Purisima Formation sandstone (Tp) to depths of 14'. The spoils from these depths were typically loose, slightly moist to dry, fine- to medium-grained sand. While most of the soils exposed in the test-pits were observed to be moist, no evidence of groundwater or potential seasonally high groundwater conditions was observed. In our opinion, there is no reason to suspect seasonally high groundwater conditions in the areas tested due to the well-drained sandy earth material and the ridge top location. Short periods of soil column saturation may occur, however during significant rainfall events. All of the soils observed appeared well-drained and were expected to yield a high hydraulic conductivity as indicated by the resulting soil percolation rates. Three percolation test holes were installed on each proposed lot for a total of 21 test holes (see attached Site Evaluation Results Map for locations of backhoe test-pits and percolation test holes). Soil percolation testing was conducted on these test holes between June 24 and August 3, 2006. The percolation rate of the soil was measured at depths of approximately 2', 4' and 7' below grade on each lot. The results of the percolation testing ranged from less than 0.1 to 27.0 minutes per inch (MPI). The two shallowest test holes on proposed lot #7 resulted in significantly slower percolation rates than the rest of the 21 holes tested; however, the deepest hole tested on this lot resulted in a very rapid percolation rate. The average percolation rate for all 7 proposed lots is 4.6 MPl. Excluding proposed lot #7, the average percolation rate of the three holes tested on any particular lot resulted in less than 5 MPI (see attached Percolation Test Data Sheets). Using the percolation test results as a basis for the design of a dispersal system, a percolation rate of 1-5 MPI would be an appropriate design criterion for sizing of dispersal trenches in the areas tested on each lot, except #7. A percolation rate of 6-30MPI is required to be used for sizing of dispersal trenches on proposed lot #7.

Onsite Wastewater System Design

Based on the results of the site evaluation and soil analysis, a leach field consisting of conventional, 4.0'-deep, 18"-wide, rock-filled leaching trenches, is recommended for dispersal in the areas designated as "suitable" on the attached Site Evaluation Results Map. The number and length of dispersal trenches required to serve development of each lot is dependant on the number of bedrooms in the proposed dwelling(s).

EXHIBIT E

Please let me know if you concur with the leaching trench design criteria outlined above. Thank you for your help on this project. Please contact me if you have any questions or concerns regarding the information presented.

Sincerely,

BioSphere Consulting, LLC

By: Andrew Brownstone, Mbr, PG #7453

Attachments:

Site Evaluation Results Map (one identical 24"x36" sheet showing all for each of the 7 lots)

Percolation Test Data Sheets (one specific data sheet for each of the 7 lots)

David Weiss Joel Schwartz

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HALSTEAD PUMP, INC

P.O. BOX 277 APTOS, CA 95001-0277 831-688-4731, FAX 831-088-7525 LICENSE #626042

WELL YIELD AND PUMP TEST REPORT

Location of well: 500 TELFORD / ADJOINING PROPERTY
Consact Person: PETE MIRADE Ph# 722-5127
Date of pump test: 6.08 Pump rate during test: 10 gpm. Pump horsepower. 3
Duration of continuous pumping hours 2 Total yield: 1200 gallons
Draw down during pumping test: APM 50 ft. Static water level: 50 ABOVE Pump II.
l certify that I have performed the above pump test and that the information provided here is correct to the best of my knowledge.
Anthony Marylen Date
License #f26042 (C-61) Pump and Mechanical
NOTES: WELL PAUDULING MAPRIX 10 GPM AT WOLLHEAD. 3. HP GRUNDES PUMP INSTALLOD IN 95. THE RING
3. H.P GRUNDES Pump INSTALLOS IN 43. THE PLANE
15 IN GOLD WALLING CONDITION.
THE MESSURE SYSTOM CURSISTS OF A FINE HUNGROWN
BUSTER PEMP 4174 3-86 GAR PRESSURE TANKS. THE
TANKS WORK INSTALLOS IN Ob.
DUBRAU, THE WATER SYSTEM SEEMS TO BE IN
Gows orner WITH SUPPRIENT WATER FOR INSIDE AND
DUTSINE USES.
WATER QUALITY REPORT TO FALCE





County of Santa Cruz, PLANNING DEPARTMENT Discretionary Application Comment

Discretionary Application Comments 10-0069

APN 107-011-06

Drainage Review

Routing No: 1 | Review Date: 04/20/2010

DAVID SIMS (DSIMS): Complete

:Review Type= DPW DRAINAGE ====== REVIEW ON APRIL 19, 2010 BY DAVID W SIMS ====== == UPDATED ON APRIL 20, 2010 BY DAVID W SIMS ====== Review Comments 10-0069 Reference for County Design Criteria: http://www.dpw.co.santa-cruz.ca.us/DESIGNCRITERIA.PDF Applicable General Plan policies: http://www.sccoplanning.com/pdf/generalplan/toc.pdf 7.23.1 New Development 7.23.2 Minimizing Impervious Surfaces 7.23.3 On-Site Stormwater Detention 7.23.5 Control Surface Runoff Policy Compliance Items: Item 1) Calculations presented show a mitigation design for a 2-year, 2-hour storm. Calculations should demonstrate as well that the County standard 10 year storm is adequately controlled for predevelopment flow rates. This could require detention if other means are not adequate. Item 2) The percolation trench facility should be provided with vertical cleanouts on the outer ends of the perforated pipes. 6" minimum per CDC. Item 3) Existing roadway running along the southern edge of proposed lots 4, 5, 6 and portions of lot 3 and 7, if no longer to be used, should be decommissioned by decompacting, regrading to prior natural contours and revegetating, to meet policy requirements to minimize impervious areas. Please delineate and note this on the plans where it will occur. Item 4) Maintenance procedures for the drainage facilities and mitigation measures must be provided on the plans per CDC requirement. Item 5) General Note 18 on sheet C1 of the civil plans notes as-builts to be prepared by County staff. Per current CDC requirements (pg. 3. Section B, item 6), as-builts are to be submitted in digital CAD format from the applicant (project civil engineer). Please revise note. Item 6) Drainage easements will be needed around all drainage facilities and mitigation measures serving drainage areas that are in common. Information Items: No additional information needed at this stage of the application. Please see miscellaneous comments. MISCELLANEOUS COMMENT: ====== REVIEW ON APRIL 20, 2010 BY DAVID W SIMS ====== Miscellaneous: Prior to recording the final map and subdivision improvement plans, address the following: A) Future driveways appear to drain to the planned roadway without obviously feasible independent mitigation as is the stated intent in the Civil Engineer's report. It seems probable that the slope, steepness, and connectivity of these driveways would make treatment by the roadway mitigation system a likely solution. Please indicate a feasible means of alternate driveway mitigation if not included in the roadway mitigation facility. B) Can driveways on lot 4 and 5 be combined to reduce impervious surfacing? C) A drainage pipe (P1) crosses the fault trace. Please review backfill and pipe materials selection for this service condition to assure pipe rupture risk is minimized. It is noted on page 15 of the geotechnical report that "rigid solid pipes" are called out over flexible conduit. D) It is noted on page 15 of the geotechnical report that percolation pits are not recommended due to possible slope failure. While slopes are apparently very mild at the proposed percolation facility location, please review the proposal between the Civil Engineer and Geotechnical Engineer and resolve the conflict in recommendations if possible. Update any statements in reports or on plans as warranted. E) It is noted in the geotechnical boring logs that sandstone bedrock occurs frequently throughout the project site at approximate depths that correspond to the proposed bottom of the percolation facility.

Print Date: 06/**(8/)04/**||B|||

Page: 1

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County of Santa Cruz, PLANNING DEPARTMENT

Discretionary Application Comments 10-0069 APN 107-011-06

Drainage Review

Routing No: 1 | Review Date: 04/20/2010

DAVID SIMS (DSIMS): Complete

Additionally, while most near surface soils are described as sand or silty sand, some areas contain appreciable clay content. Has the selected percolation site been checked by boring tests for these two conditions that may interfere with percolation occurring at the assumed design rate of 4 inches per hour? Such conditions should be checked and the design adjusted as warranted. F) Backfilled soil zones where existing septic tanks and leach fields are to be removed should be shown on the plans such that the potential for the creation of additional impervious extents due to soil modifications can be reviewed. G) Drainage outfall velocities should be checked against CDC figures SWM-19 a & b and presented in the drainage design report to assure erosion potential has been checked. H) Presumably the gabion gravity wall does not require any backdrains. If included please show discharge routings. I) A recorded maintenance agreement may be required for certain stormwater facilities. Please contact the County of Santa Cruz Recorder' office for appropriate recording procedures. J) Please note on the plans provision for permanent bold markings at each inlet that read: "NO DUMPING - DRAINS TO BAY". K) A drainage impact fee for zone 7 will be assessed on the net increase in impervious area. The fees are currently \$1.06 per square foot, and are assessed upon permit issuance. Reduced fees are assessed for semi-pervious surfacing to offset costs and encourage more extensive use of these materials. L) Construction activity resulting in a land disturbance of one acre or more, or less than one acre but part of a larger common plan of development or sale must obtain the Construction Activities Storm Water General NPDES Permit from the State Water Resources Control Board. Construction activity includes clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement. For more information see: http://www.swrcb.ca.gov/stormwtr/constfaq.html Please call the Dept. of Public Works, Stormwater Management Section, from 8:00 am to 12:00 noon if you have questions. (831) 454-2160

Routing No: 2 | Review Date: 03/24/2011

GERARDO VARGAS (GVARGAS): Incomplete

Application No.: 10-0069

Reviewed by: G_V

Incomplete

Completeness Comments:

The proposed drainage plan appears to be acceptable, however the calculations dated February 17, 2011 cannot be accepted. The storage volume provided for the 10 year storm is significantly undersized. Please revise calculations accordingly.

Miscellaneous comments:

Miscellaneous comments made on April 20, 2010 still apply at the building application stage.

A drainage impact fee will be assessed on the net increase in impervious area. The fees are



County of Santa Cruz, PLANNING DEPARTMENT

Discretionary Application Comments 10-0069 APN 107-011-06

Drainage Review

Routing No. 2 | Review Date: 03/24/2011

GERARDO VARGAS (GVARGAS): Incomplete

currently \$1.07 per square foot, and are assessed upon permit issuance. Reduced fees are assessed for semi-pervious surfacing to offset costs and encourage more extensive use of these materials.

The applicant is encouraged to discuss the above comments with the reviewer to avoid unnecessary additional routings. A \$200.00 additional review fee shall be applied to all re-submittals starting with the third routing.

Please call the Dept. of Public Works, Stormwater Management Section, from 8:00 am to 12:00 noon if you have questions.

Routing No: 3 | Review Date: 05/06/2011

GERARDO VARGAS (GVARGAS): Complete

Application No: 10-0069

G V

5/6/2011

Completeness Comments

The civil plans with have been received and are approved for the discretionary application stage. Please see miscellaneous comments for comments to be addressed prior to recording the final map.

Miscellaneous Comments

The Percolation trench detail has been received and approved; please insure that the detail is provided on the plans prior to recording the final map.

- 1. Please submit the drainage calculations reflecting the change in the percolation trench.
- 2. A recorded maintenance agreement is required for the proposed retention system. Please contact the County of Santa Cruz Recorder's office for appropriate recording procedure. The maintenance agreement form can be picked up from the Public Works office or can be found online at: http://www.dpw.co.santa-cruz.ca.us/Storm%20Water/FigureSWM25.pdf

Please call the Dept. of Public Works, Storm Water Management Section, from 8:00 am to 12:00 noon if you have questions.

Environmental Health Review

ATTACHMONE 8

Print Date: 06/08/2011

Page: 3



Environmental Health Review

Routing No: 1 | Review Date: 03/29/2010

JIM SAFRANEK (JSafranek): Complete

:Review Type= ENVIRONMENTAL HEALTH ======= REVIEW ON MARCH 29, 2010 BY JIM G SAFRANEK ======= Fee for EHS review of this project is \$3075, remainder is due. The well yield test that was sent w/ the appl. does not meet standards. The applicant should contact Troy Boone of EHS at 454-3069 if the intent isto pursue a Small Community Water System to serve the subdivision. The applicant's septic consultant will need to do Septic Site Evaluations for all proposed lots. For info contact Ruben Sanchez of EHS, 454-2751 MISCELLANEOUS COMMENT: ========= REVIEW ON MARCH 29, 2010 BY JIM G SAFRANEK ========= NO COMMENT

Routing No: 2 | Review Date: 02/28/2011 ROBIN BOLSTER (RBOLSTER) : Incomplete

see email

Routing No: 3 | Review Date: 04/28/2011 JIM SAFRANEK (JSafranek) : Complete

Project is complete for EHS. Lots have received approved preliminary onsite sewage disposal evaluations, and proposed well locations are acceptable (though County Env Planning should also review these well sites illustrated on the latest revised sheet, C4).

Prior to BP approval the applicant(s) will need to obtain approved septic system and well applications from EHS.

Environmental Planning

Routing No: 1 | Review Date: 04/06/2010

ROBERT LOVELAND (RLOVELAND): Complete

:Review Type= ENVIRONMENTAL PLANNING Comments by Joe Hanna (4/6/10): 1. A detailed grading plan, completed by a licensed civil engineer, for the secondary access road is required. The plan shall be in compliance with Fire Department standards, the Grading Code. identify easements and clarify the stability of the road way. (14.01.206 e, (e), and 14.01.432). 2. The project engineer must provide grading plans for all turnouts, and the geotechnical engineer shall examine the location of the proposed turnouts with regards to grading and or slope stability issues. (14.01.206 e and 14.01.432) 3. A depression exists partially on Lot 1 of the proposed subdivision. Is this depression a natural feature, and does it have a man-made outlet? Does any of the subdivision drainage enter the pond? (14.01.207 (a) Drainage) 4. The geologic map dated September 2009 indicates septic system envelopes, and building envelopes for habitable structures, and on sheet C4 of the project plans indicated building and septic areas that do not match with the geologic map. Please designate the areas for habitable structures and septic systems on C4 in a manner that is consistent with the geologic map. 5. If the existing roadways do not meet Fire Department, Public Works Department Standards, or other standards and required modifications, a

Environmental Planning

Routing No: 1 | Review Date: 04/06/2010

ROBERT LOVELAND (RLOVELAND): Complete

grading plan must be submitted with plans and profiles prepared by a civil engieer that shows all grading or other improvements. These plans must be reviewed by the geotechnical engineer before submittal to the County. Completeness Questions for the Technical Studies: 6. The engineering geologist must provide a cross-section extending from the ridge top building envelopes to Rider Creek that demonstrates his interpretation of the geologic structure and landsliding on the property. (See Report Guidelines - cross section will be used in the Initial Study.) 7. The drainage system is different than what was envisioned in the engineering geology report. We have noticed two differences: a. Per the October 2, 2009 Engineering Geology Report item 5 all drainage should be taken to a natural drainage course in impermeable swales. The proposed improvement plans included a percolation trench for drainage at the end of the new driveway located near or within an area of possible landsliding, and a bio-swale on the inside of the driveway. b. Outlets to the bio-swale are concentrating drainage on slopes in areas of mapped landsliding and near the debris flows identified by the engineering geologist. 8. Code section (16.10.070 (e) 3) requires that all drainage be directed away from potentially unstable areas. The requirements from the October 2010 report closely follow Code requirements, but plans now appear to reflect another alternative. The geotechnical engineer and/or engineering geologist must explain why the different drainage system is appropriate for this subdivision and conclude that the goals of section 16.10.070 (e) are accomplished with the combination of bio-swales and percolation trenches. Recommendation 1 of the October 2, 2009 Engineering Geology report states, -Prospective home sites located upon steep slopes should be investigated for potential slope stability hazards and their accompanying risks.- Please rephrase this recommendation to avoid the appearance that the proposed building envelopes are subject to unknown level of slope instability. County of Santa Cruz Code requires that each lot have a building site that is not subject to significant instability (16.10.070 e 2 (ii)). The Recommendation 1 as written implies that further study is required to determine site stability. We believe the geologist has included this recommendation to prevent inappropriate lot grading which could induce slope instability. Please revise. ====== UPDATED ON APRIL 6, 2010 BY ROBERT S LOVELAND ======== 1. During the recent site visit to review the proposed access road a woodrat nest was identified west of the road alignment. Woodrats are a listed species and provided protection by the county under the "Sensitive Habitat Protection Ordinance". Please complete the following items: A. A qualified biologist shall check both the primary (Sheet C4) and secondary (to be provided) access road alignments, driveway alignments, and areas included in the "Limits of Grading" for additional woodrat nests. All locations shall be identified on respective plan sheets. NOTE: I am aware that a biotic assessment was completed under Application 08-0023 (APN: 107-071-02), but the areas listed above were not identified as development areas so were not reviewed in the assessment. Once the nest sites are identified, the primary goal in the design of this project is to avoid those areas and mitigation would be secondary. 2. The grading quantities identified for "Lot 3" on Sheet C5 are considerably higher in volume than any of the other lots. The volume of earthwork is excessive given the site conditions and need to be AR MACHILLE ...

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Environmental Planning

Routing No: 1 | Review Date: 04/06/2010

ROBERT LOVELAND (RLOVELAND): Complete

Routing No: 2 | Review Date: 03/28/2011

ROBERT LOVELAND (RLOVELAND): Incomplete

2nd Routing Comments by Bob Loveland:

- 1. I received a "Woodrat Survey" from Dana Bland & Associates, dated 7/26/10, and I have reviewed and accepted the survey. NOTE TO PLANNER: Please add the biologist recommendations to the "Conditions of Approval".
- 2. I have reviewed and accepted the following letters from the project geotechnical engineer and geologist:
- "Response to County Review Comments", by Bauldry Engineering and dated 2/16/11.
- "Gabion Basket Retaining Walls", by Bauldry Engineering and dated 12/29/10.
- "Geologic Plan Review Letter" by Zinn Geology and dated 2/22/11. NOTE: An updated "Plan Review Letter" will be required during building permit applications.
- 3. During this routing I reviewed a report from the project civil engineer regarding "Primary Access Road Turnouts" and Sheet 23 of 24 (Primary Access Road Detail). I completed an additional site visit and have comments regarding the following turnouts:
- Turnout 1: Identify size and number of trees to be removed in order to install approvable turnout. The fire department requirements for each turnout is 12 feet wide, 35 feet long with a 7 foot approach.
- Turnout 2: Width and length issues at this location. What type of work will need to be completed to construct to required specifications?
- Turnout 3: Any tree removal? Width issue.
- Turnout 4: Width issue.
- Turnout 5: Any tree removal? Width issue.
- Turnout 7: Width and length issues
- Turnout 8: Drainage concern and need for retaining wall.
- Turnout 10: Any tree removal? Width issue.
- Turnout 12: Need for retaining wall. Scope of earthwork?

ATTACITY

8



County of Santa Cruz, PLANNING DEPARTMENT

Discretionary Application Comments 10-0069

Environmental Planning

Routing No: 2 | Review Date: 03/28/2011

ROBERT_LOVELAND (RLOVELAND): Incomplete

Turnout 14: Drainage concern.

Turnout 17: Any tree removal?

Turnout 18: How will gully area be dealt with? Retaining wall? Scope of earthwork?

Turnout 19: Retaining wall? Scope of earthwork?

Turnout 20: Any tree removal? Scope of earthwork?

Turnout 21: Scope of earthwork?

Turnout 24: Scope of earthwork? Retaining wall?

Turnout 26: Scope of earthwork? Retaining wall?

In order to construct the required turnout dimensions to specifications it will require more than just adding base rock. Please provide clear details on what work will need to be done to install turnouts to required specifications (length, heights of retaining walls, overexcavation/recompaction earthwork, keyways, tree removal etc.), and provide an estimate of earthwork quantities for all turnouts listed above.

Conditions of Approval:

- 1. All recommendations proposed by the project biologist (Dana Bland & Associates) regarding the "Woodrat Survey", dated 7/26/10, shall be identified on the grading plans.
- 2. The project geologist and geotechnical engineer shall provide "Plan Review Letters" for review and approval prior to building permit issuance.
- 3. Submit detailed grading and drainage plans, completed by a licensed civil engineer, for review and approval.
- 4. Submit a detailed erosion/sediment control plan for review and approval.

Routing No: 3 | Review Date: 05/06/2011

ROBERT LOVELAND (RLOVELAND): Complete

NOTE TO PLANNER:

The grading quantities provided for the turnout areas we think are very conservative, but we are okay with the description of work to be completed at each turnout. Please note that we will be asking for more detailed grading information from a licensed civil engineer for the turnouts requiring upgrading to code requirements.

I have reviewed and accepted the letter ("Reconnaissance of turnout #8") from the project geologist dated 4/19/11.

Fire Review

Routing No: 1 | Review Date: 03/25/2010

COLLEEN BAXTER (CBAXTER): Complete

:Review Type= CAL DEPT OF FORESTRY/COUNTY FIRE ====== REVIEW ON

MARCH 25, 2010 BY COLLEEN L BAXTER ====== DEPARTMENT

NAME:CALFIRE/SANTA CRUZ COUNTY FIRE Add the appropriate NOTES and DETAILS

All Aurinaum Print Date: 06/08/2011

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EXHIBIT



Fire Review

Routing No: 1 | Review Date: 03/25/2010 COLLEEN BAXTER (CBAXTER): Complete

showing this information on your plans and RESUBMIT, with an annotated copy of this letter: Note on the plans that these plans are in compliance with California Building and Fire Codes (2007) as amended by the authority having jurisdiction. Each APN (lot) shall have separate submittals for building and sprinkler system plans. The job copies of the building and fire systems plans and permits must be onsite during inspections. SHOW on the plans, DETAILS of compliance with the Access Standards of the Santa Cruz County General Plan (Objective 6.5 Fire Hazards). The access road shall be 20 feet minimum width and maximum twenty percent slope. All bridges. culverts and crossings shall be certified by a registered engineer. Minimum capacity of 25 tons. Cal-Trans H-20 loading standard. The access road shall be in place to the following standards prior to any framing construction, or construction will be stopped: - The access road surface shall be "all weather", a minimum 6" of compacted aggregate base rock, Class 2 or equivalent, certified by a licensed engineer to 95% compaction and shall be maintained. - ALL WEATHER SURFACE: shall be minimum of 6" of compacted Class II base rock for grades up to and including 5%, oil and screened for grades up to and including 15% and asphaltic concrete for grades exceeding 15%, but in no case exceeding 20%. The maximum grade of the access road shall not exceed 20%, with grades greater than 15% not permitted for distances of more than 200 feet at a time. The access road shall have a vertical clearance of 14 feet for its entire width and length, including turnouts. A turn-around area which meets the requirements of the fire department shall be provided for access roads and driveways in excess of 150 feet in length. Drainage details for the road or driveway shall conform to current engineering practices, including erosion control measures. All private access roads, driveways, turn-around and bridges are the responsibility of the owner(s) of record and shall be maintained to ensure the fire department safe and expedient passage at all times. SHOW on the plans, DETAILS of compliance with the driveway requirements. The driveway shall be _12 __ feet minimum width and maximum twenty percent slope. The driveway shall be in place to the following standards prior to any framing construction, or construction will be stopped: - The driveway surface shall be "all weather", a minimum 6" of compacted aggregate base rock. Class 2 or equivalent certified by a licensed engineer to 95% compaction and shall be maintained. - ALL WEATHER SURFACE: shall be a minimum of 6" of compacted Class II base rock for grades up to and including 5%, oil and screened for grades up to and including 15% and asphaltic concrete for grades exceeding 15%, but in no case exceeding 20%. - The maximum grade of the driveway shall not exceed 20%, with grades of 15% not permitted for distances of more than 200 feet at a time. -The driveway shall have an overhead clearance of 14 feet vertical distance for its entire width. - A turn-around area which meets the requirements of the fire department shall be provided for access roads and driveways in excess of 150 feet in length. - Drainage details for the road or driveway shall conform to current engineering practices, including erosion control measures. - All private access roads, driveways, turn-arounds and bridges are the responsibility of the owner(s) of record and shall be maintained to ensure the fire department safe and expedient passage at all times. - The driveway shall be thereafter maintained to these standards at all times. Provide an official copy of AHATE

Fire Review

Routing No: 1 | Review Date: 03/25/2010 COLLEEN BAXTER (CBAXTER): Complete

the duly recorded road maintenance agreement. All Fire Department building requirements and fees will be addressed in the Building Permit phase. Plan check is based upon plans submitted to this office. Any changes or alterations shall be re-submitted for review prior to construction. __72_hour minimum notice is required prior to any inspection and/or test. Note: As a condition of submittal of these plans, the submitter, designer and installer certify that these plans and details comply with the applicable Specifications, Standards, Codes and Ordinances, agree that they are solely responsible for compliance with applicable Specifications. Standards, Codes and Ordinances, and further agree to correct any deficiencies noted by this review, subsequent review, inspection or other source, and, to hold harmless and without prejudice, the reviewing agency. Please see attached notes from the Santa Cruz County General Plan pertaining to road requirements. All requirements must be met. Please contact Deputy Fire Marshal Chris Walters at (831)335-6748 if you have any further questions. MISCELLANEOUS COMMENT:

====== REVIEW ON MARCH 25, 2010 BY COLLEEN L BAXTER =======

Routing No: 2 | Review Date: 04/26/2011
ROBIN BOLSTER (RBOLSTER) : Complete

Housing Review

Routing No: 1 | **Review Date:** 03/23/2010

PATRICK HEISINGER (PHEISINGER): Complete

:Review Type= HOUSING ======= REVIEW ON MARCH 23, 2010 BY PATRICK J HEISINGER ======== NO COMMENT Developer will have an affordable housing obligation of 1.05. The developeould contact Patrick Heisinger at 454-2322 to discuss the ways in which thiligation can be addressed. It is my understanding that the developer, via tter, has already contacted the housing section requesting a meeting to dis the project-s obligation.

MISCELLANEOUS COMMENT: ========= REVIEW ON MARCH 23, 2010 BY PATRICK J HEISINGER ======== NO COMMENT none

Project Review

Routing No: 1 | Review Date: 02/28/2011

ROBIN BOLSTER (RBOLSTER): Incomplete

:Review Type= PROJECT REVIEW NO PROJECT REVIEW DESCRIPTION AVAILABLE

Routing No. 2 | Review Date: 04/26/2011

ROBIN BOLSTER (RBOLSTER): Incomplete

incomplete pending review/acceptance by EP/Drainage/EH/Surveyor

Print Date: 06/08/2011
Page: 9

Project Review

Routing No: 3 | Review Date: 05/13/2011 ROBIN BOLSTER (RBOLSTER) : Complete

Road Engineering Review

Routing No: 1 | Review Date: 04/02/2010 RODOLFO RIVAS (RRIVAS) : Complete

:Review Type= DPW ROAD ENGINEERING ======= REVIEW ON APRIL 2, 2010 BY RODOLFO N RIVAS ======= NO COMMENT MISCELLANEOUS COMMENT: ======= REVIEW ON APRIL 2, 2010 BY RODOLFO N RIVAS ======= NO COMMENT

Surveyor Review

Routing No: 1 | Review Date: 03/29/2010 KATE CASSERA (KCASSERA) : Complete

Routing No: 2 | Review Date: 03/14/2011
KATE CASSERA (KCASSERA) : Incomplete

- 1. Remove all contour lines from tentative parcel map sheets 20-24. These contour lines make the tentative parcel map impossible to read at the scale it is drawn. Contour information is to be shown on the improvement plans only. Once this is done, tentative parcel map will be reviewed.
- 2. Sheet 20 of 24, provide bearing information for all lines shown on tenative parcel map. If map scale is too large to do this, add an additional sheet for clarification.

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Routing No: 3 | Review Date: 05/05/2011 KATE CASSERA (KCASSERA) : Complete

Urban Designer Review

Routing No: 1 | Review Date: 04/26/2011

Print Date: 06/08/2011
Page: 10 EX | 511

Urban Designer Review

ROBIN BOLSTER (RBOLSTER): No Response

:Review Type= URBAN DESIGNER NO PROJECT REVIEW DESCRIPTION AVAILABLE

ALIMUT 6

Print Date: 06/08/2011

Page: 11

EXHIBIT

COUNTY OF SANTA CRUZ

Planning Department

INTEROFFICE MEMO

APPLICATION NO: 10-0069

Date: April 19, 2010

To: Robin Bolster-Grant, Project Planner

From: Larry Kasparowitz, Urban Designer

Re: Alta Vista Ocean View Estates design guidelines

Landscaping -

- use the term "low and moderate water use plants" this is defined in the new Landscape Water Use Ordinance.
- use the term "appropriate native plants" there are many native plants that are high water use.
- state that the installed landscape shall be subject to the State Landscape Water Use Ordinance or local equivalent

Fencing and walls -

• where is the proposed 4-6 ft. fencing?

Home Design -

- garages should not face the front of the residence, where possible.
- should there be both a maximum and minimum home size?
- define home size.
- is pervious pavement recommended or encouraged?

Open Space -

• would the barn and associated facilities be on common open space?

Fire Prevention Requirements -

please confirm if the Urban-Wildland portions of the building code apply and state in design criteria.

Please submit a copy of the revised document for review. The last paragraph of the Home Design section needs revisions.

Robin Bolster

From:

Jim Safranek

Sent:

Friday, April 01, 2011 10:13 AM

To: Subject: Robin Bolster 10-0069

HI RB

After too much fooling around on Fool's day, I finally received the revised sheet from Weaver; project is now complete

All parcels received approved preliminary septic system site evaluations from this dept.; well locations now appear suitable, accessible for service, and meet required setbacks.

JS

FYLIDIT

JOE L. AKERS

CIVIL ENGINEER 830 BAY AVE. STE. E CAPITOLA, CA.

(831) 475-6 557 FAX (831) 475-7158

ON-SITE DRAINAGE CALCULATIONS

JOB NO. WEI 6001

February 24, 2010

TRACT 1558 ALTA VISTA OCEAN VIEW ESTATES TELFORD DRIVE SANTA CRUZ COUNTY

APN 107-011-06

SHEET INDEX

1,	Summary
2-	Site Information Sheet
3-	Inlet flows (Q25) and outlet control detail
4-	Required Storage Calculations
5-	Drainage System Plat Map
6-11-	System A flow calculations (12")
12-17-	System B flow calculations (8")
18-	Site Map
19-	Drainage Area Map
20-	Water Supply - Watershed Map
21-	Ground Water Recharge Area Map
22-	Soils NRCS Map

PREPARED BY: JOE L. AKERS

> RCE 20372 EXP.9-30-11

CIVIL ENGINEER 830 BAY AVE. STE. E

CAPITOLA, CA.

(831) 475-6 557

FAX (831) 475-7158

SUMMARY

Site is located in the Aptos, Pajaro water basin and in the Lower Corralitos, Upper Corralitos, Aptos watershed. The improvement site is in a water supply watershed and is also in a ground water recharge area.

The upslope area runoff (Southwesterly of the road) is collected in a bio-swale that runs along the Southwesterly side of the road. The bio-swale releases to 7 energy dissipaters below the road. The bio-swale will keep the pervious uphill runoff from entering the storage system. The drainage system design for the lot improvements (house, driveway, walks etc.) will be prepared at the time of development for the individual lots. Their design should provide the necessary storage and outlets separate from the road system.

The storage volume is designed using all of the new proposed roadway impervious area. Pervious pavement was not considered because of the road longitudinal slope steepness. Area 7 does not flow toward the storage system. It flows to a energy dissipater located below the road. There is a high point in the road at station **6+33.86**. The storage system is sized using an average percolation rate for the NRCS area. The overflow from the storage system will flow overland approximately 3000 feet through a forested area before it reaches Rider Creek. Therefore downstream creek flows should not be significantly impacted by the proposed road improvements.

The road drainage system is designed using a 25 year storm. Flow analysis **A** uses 12 inch pipe in the roadway and an 8 inch pipe to the percolation trench. Flow analysis **B** uses 8 inch pipe for both roadway and release pipe. In order to provide a better flow velocity the 8" roadway pipe was used. The flow velocities for the 12 inch pipe were all less than 2 fps except for P-4 (steep slope) (see sheet 8). The pipe velocities for the 8 inch pipe were greater than 2 fps except P-6 (very small Q) and P-2 (pipe entering control box) (see sheet 14). P-2 velocity with the 12 inch pipe was 0.72 fps and with 8 inch pipe it was 1.58 fps. The 8 inch pipe is shown in the plan drawing table on sheet C7 of the improvement plans.

Allem Marin

AKERS & ASSOCIATES - CIVIL ENGINEERING

830 BAY AVE. STE. E CAPITOLA, CA. 95010 (831) 475-6557

BY JA DATE 210 SUBJECT TOOL 1558 SHEET 3 OF 22

Downey. Cales

PGO Value 1.7 Q= Ce (iA for Tc=15 min (10=1.95 in/hr for 25 yr. G=1.1 C=0.9 (cc=0.99)

Area #	Area	Coc Alazzas	125	Q25 (ch)
7	3243 Sf.	0.074	2.34	0.17
6	37 29	0.035		0.20
5	1938	0.002		0.10
4	3231	0.074		0.17
3	1431	0.034		0.08
2	J.B.		:	
1	4517	0.104	~	0.24
	18,139		20 1	
シカ	stem 6	thun I flow = c	1. 17 (13)	

OUT TO PERCOLATION TRENCH

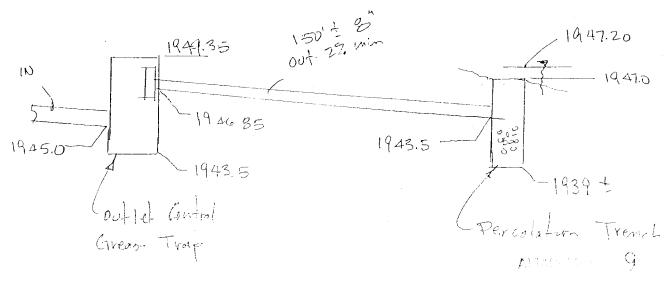


EXHIBIT E

Project: Weiss Alta Vista Ocean View Estates

Date: 25-Feb-10

REQUIRED STORAGE - PERCOLATION RETENTION METHOD

Design Data:

P60 Isopleth = 1.7

2 yr. 2 hr. Rainfall Intensity (i) =

0.54 in/hr

Pre-developed Runoff Coefficent Post-developed Runoff Coefficient Cpost=

Cpre = 0.25 0.90

Percolation Rate

4.0

Pr=

Impervious Areas Bldg 0 Trench Dimen W= 2.0

Effective Surface Area=

0.7

in/hr (AVE)(SC soil Survey - Soil 111)

Walks

0 sf

fŧ D=6.0 ft Surface Area Aef= 1036.0 st

Pavement 18139

sf L= 104.0 ft Internal Voids =

0.35

Ai Total = 18139 sf

V= 1248.0 cf

Available Volume= 436.8 cf

Qin (Required Retention Rate) = Qpost-Qpre

Opost = Cpost*i*Ai = 0.3779 *i cfs (i varies w/duration)

Qpre = Cpre*I*Ai = 0.0567 cfs (i constant & Q constant)

Direct Rainfall Rate Qin-sa = i*L*W =

0.0048 *i cfs (i varies w/duration)

Qout (Soil Infiltration Rate) = Pr*Aef =

0.0959 cfs (constant for each Aef)

Storage Volume = (Qin + Qin-sa - Qout)*Storm Duration*60

			· · · · · · · · · · · · · · · · · · ·		
Storm	i in/hr		Direct		Storage
Duration	2 <u>yr</u> .	Qin	Rate	Qout	Volume
(min)	storm	cfs	cfs	cfs	cf
5	1.94	0.6764	0.0093	0.0959	177
10	1.47	0.4988	0.0071	0.0959	246
20	1.11	0.3628	0.0053	0.0959	327
30	0.94	0.2985	0.0045	0.0959	373
60	0.71	0.2116	0.0034	0.0959	429
100	0.58	0.1625	0.0028	0.0959	416
120	0.54	0.1474	0.0026	0.0959	389
200	0.44	0.1096	0.0021	0.0959	189
400	0.33	0.0680	0.0016	0.0959	-632
600	0.28	0.0491	0.0013	0.0959	-1636
800	0.25	0.0378	0.0012	0.0959	-2733
1000	0.23	0.0302	0.0011	0.0959	-3875
2000	0.17	0.0076	0.0008	0.0959	-10506

Vp Storage Volume Provided = 436.8

Vmax= 429 cf *1.0 = cf < Vp OK

Drain Time = V/(Qout 3600) =

1.26 hr < 48 hrs



December 4, 2008

Matt Johnston Planning Department County of Santa Cruz 701 Ocean Street Santa Cruz, CA 95060

Re: David Weiss et al. Biotic Assessment (Application No. 08-0023)

Dear Matt:

This letter reports the findings of a biotic assessment of the David Weiss et. al parcel (Assessor's Parcel No. 107-071-02), located at the terminus of Telford Drive 550 feet northwest of its intersection with Enos Lane in Corralitos, in the Aptos Hills Planning Area in southern Santa Cruz County. The applicant is proposing a minor land division with intent of developing additional homes on the 135+ acre parcel. This assessment focused primarily on the presence of special-status plants and wildlife within the areas proposed development. Two separate sites have been tentatively identified as building sites, both of which are near the top of north south trending Corralitos mountain ridgeline.

The U.S. Soil Conservation Service Soil Survey of Santa Cruz County (1980) classifies the soils on the Weiss parcel as Ben Lomond sandy loam series, 15 to 75 percent slopes and Zayante rock outcrop complex, 15 to 75 percent slope. The Ben Lomond sandy loam series is the predominant soil type on the Weiss parcel. The Ben Lomond sandy loam soil series is a deep, well drained soil formed on long side slopes in residuum derived from sandstone and granitic rock. Permeability of Ben Lomond sandy loam series is moderately rapid with rapid runoff potential and moderate to high erosion hazard. This series occurs in the northwest proposed building site area. The Zayante rock outcrop complex is on hills and mountains with an equal percentage of rock outcrop and Zayante coarse sand formed in residuum derived from consolidated marine sediment or sandstone. The Zayante rock outcrop complex has rapid permeability with rapid runoff potential and a high to very high erosion hazard. The Zayante substrate is confined to a small portion of the Weiss parcel in the area proposed for Homesite #1.

Field visits were made in September and November, 2008 to characterize the habitats and potential for special-status plant and animal species. The 135 acre parcel is characterized by a level to moderate east facing slope. The majority of the parcel is dominated by mixed evergreen coniferous forest habitat with scattered stands of introduced non-native conifer tree stands and cleared open fields. The two proposed development sites are situated on the southern edge of the

parcel near the apex of the Corralitos ridgeline. The southeastern most proposed homesite (identified on the parcel map as "proposed Homesite #1") occurs on a small inclusion of Zayante sand soil substrate. The majority of the Zayante sands occur west of the parcel on the west-facing slope below the Weiss parcel. The proposed homesite #1 building area is characterized by disturbed terrace with the vegetation showing the appearance of recent clearing and grubbing. The predominant cover is resprouting maritime chaparral with scattered tree cover. The disturbed maritime chaparral is dominated by coyote brush (Baccharis pilularis), yerba santa (Erodictyon californicum), brittle-leaved manzanita (Arctostaphylos tomentosa ssp. crustacea), buck brush (Ceanothus cuneatus), deer weed (Lotus scoparius), purple lilac (Ceanothus thyrsiflorus), and yellow bush lupine (Lupinus arboreus). Surrounding the disturbed chaparral vegetation are scattered trees including trees that have stumped sprouted after being cut in an earlier clearing of the building site (date unknown). Tree species include madrone (Arbutus menziesii), Douglas fir (Pseudotsuga menziesii), California bay (Umbellularia californica), and two large diameter ponderosa pines (Pinus ponderosa). In addition, a hedge row of non-native Monterey cypress (Cupressus macrocarpa) and true cedar (Cedrus spp.) occur on the eastern side of the building site. Open ground areas supported a moderate cover of non-native grasses and native and nonnative herbs including Canary Island grass (Phalaris canariensis), pampas grass (Cortaderia selloana), mule fat (Baccharis viminea), hairy cat's ear (Hypochaeris radicata), and California blackberry (Rubus ursinus).

The proposed western homesites occur in a large disturbed, cleared field, west of the existing homes along the top of the ridge. The field consists of scattered resprouting individuals of coyote bush, madrone, and a shrubby form of coast live oak (Quercus agrifolia). The ground cover is dominated by non-native annual grasses and non-native herbs including broad-leaved filaree (Erodium botrys), hairy cat's ear, English plantain (Plantago lanceolata), wild lettuce (Lactuca serriola), and California blackberry vines. Other low growing shrubs include deer weed, yerba santa, and buck brush. Scattered stands of bracken fern (Pteridium aquilinum var. pubescens) occurs in the disturbed cleared areas between the shrub stands. The soils in this area are all slope variants of Elkhorn sandy loam.

No sensitive plant or animal species indigenous in the vicinity of the site were observed on the parcel. The Ben Lomond sandy loam soils are not known indicators for special-status plants occurring in the southern coastal Santa Cruz County region. The California Natural Diversity Data Base (NDDB) has no current records of any special-status plants within five miles of the Weiss parcel. The habitat at the northwest building sites is primarily composed of non-native disturbance indicators and second growth mixed evergreen woodland species. Potential habitat for special-status plants in this area of the property is low. Homesite #1 is located at the top of the ridgeline on Zayante soils. Zayante soil in the Ben Lomond-Felton-Scotts Valley region supports a unique array of special-status plant and animal species in a biological island. The vegetation associated with this island supports distinctive plant associations and endemic flora and fauna. The small lenses of Zayante substrate in the southern Santa Cruz County area are not of sufficient size to support a flora and fauna distinctive from other surrounding limiting substrates. The shrub and herbaceous species are not endemic to the Zayante substrate and are found in other chaparral habitats on other limiting substrates in the vicinity of the parcel area. The Zayante substrate contiguous with the western edge of the parcel supports a dense maritime chaparral cover composed of the native shrub species described above. The presence of the ponderosa pine

trees suggests a possible relationship with the Ben Lomond sandhills but since there has been planting of other non-native confers adjacent to the building area it is possible that they were planted there at an earlier time. None of the perennial shrubs observed at this location are special-status sandhills habitat indicators. The NDDB has a general location (>5 mile radius) for Santa Cruz kangaroo rat which includes the Weiss parcel. Santa Cruz kangaroo rat is a California species of special concern and is presently known from only a couple of extant locations in the Ben Lomond sandhills of Graham Hill Road on State Park property. In the extant location the habitat is a dense maritime chaparral stand on indurate (hard) sandstone outcrop. The Zayante substrate within the proposed building site for Homesite #1 is flat with out irregularity necessary to support kangaroo rat burrows and runs. No potential habitat exists for the kangaroo rat in the building area. Potential habitat could exist within the dense chaparral habitat down slope and southwest of the Weiss parcel.

Based on this assessment, I do not believe that development of this parcel will result in any direct impact to special-status species or their habitats.

Should you require further information or clarification, please don't hesitate to contact me.

Sincerely,

Bill Davilla Principal



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123

TOM BURNS, PLANNING DIRECTOR

DATE

12/05/08

NAME

David Weiss, et al.

STREET

1840 41st Ave

CITY STATE ZIP

Capitola, CA 95010

Dear Mr. Weiss:

We have received the completed biotic assessment for this property, prepared by Ecosystems West, and dated December 4th, 2005. The assessment was required because of the presence of Zayante sands and Ben Lomond sandy loam, and ponderosa pines with associated potential for protected plant and animal species. A copy of the Biotic Assessment is attached.

Regarding plants, the biologist observed no suitable habitat for any listed species. Regarding animals, the assessment did not identify suitable habitat for special status species.

Based on the findings of the attached report, the county finds that the proposed development will not have any potential impact on any local, state or federally listed species.

Please call me at 831-454-3178 if you have any questions. A copy of this letter will be sent to your project planner so that she or he is aware of the biotic conditions on the parcel.

Sincerely

Matt Johnston

Environmental Planning

For: Claudia Slater Principal Planner

CC: Bob Loveland, Resource Planner

100000

Dana Bland & Associates P.O. Box 636, Aptos, CA 95001 ph: 831-688-2104

Alta Vista Ocean View Estates Santa Cruz County, CA Woodrat Survey

Introduction

The owner of a property at the end of Telford Road near Corralitos in Santa Cruz County. California, proposes to subdivide the property into seven lots for development as single family residences. The seven proposed lots are located on the ridge top at the end of the currently paved portion of Telford Road, and the plan includes a secondary access road from the ridge top to connect to Ryder Road. The secondary access road will follow an existing dirt road which will be paved and widened to the required 18-foot width where necessary. The Santa Cruz County Planning Department has requested a survey of the development area for San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*), a California Species of Special Concern.

Methods

Dana Bland, Wildlife Biologist, surveyed the approximately 50-acre area proposed for the seven residences (Lots I through 7) to search for presence of woodrat houses. The secondary access road was not surveyed because the areas where it will need to be widened have not yet been marked. Dana traversed the area on foot to search for the distinctive stick woodrat houses.

Results

Most of the area of Lots 1-7 is scrub habitat with moderate cover of coyote brush and small oaks. One woodrat house was observed along the eastern edge of Lot 7 (Photo 1 below). No other woodrat houses were observed within Lots 1 through 7; however, some areas were not accessible because of impenetrable thickets of blackberry and stinging nettle (Photo 2 below). It would not be possible to search those areas without removing vegetation.

7-Lot Subdivision Woodrat Survey

July 26, 2010

EXHIBIT E



Photo 1. Woodrat house (center of photo) located at eastern end of Lot 7, Alta Vista Ocean View Estates, Corralitos, California, July 19, 2010.

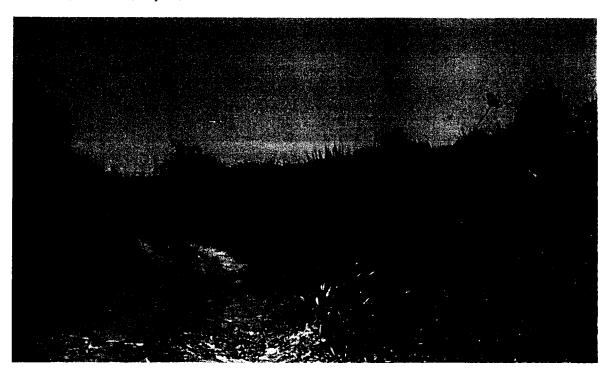


Photo 2. Some areas of dense thickets of blackberry and stinging nettle, Lots 5-6. Alta Vista Ocean View Estates. Corralitos. California, July 19, 2010. Proposed secondary access road in center.

7-Lot Subdivision Woodrat Survey

July 26, 2010

ATTACHMENT 12

Recommendations

The following measures for the proposed Alta Vista Ocean View Estates subdivision are recommended to avoid and minimize potential impacts to San Francisco dusky-footed woodrats:

- Avoid removal of woodrat houses and a 25-foot buffer around them during vegetation removal and grading of the seven lots and secondary access road.
- If it is not possible to avoid woodrat houses, have a qualified biologist prepare a plan to construct one replacement house for each one removed in an area outside the proposed development lots. The plan should be implemented prior to removal of the existing woodrat house, and should be reviewed and approved by California Department of Fish and Game (CDFG).
- Have a qualified biologist monitor removal of the dense thickets of vegetation to search for
 woodrat houses within those areas. If a woodrat house is encountered, vegetation removal should
 cease until a replacement house can be constructed in an area outside the proposed development
 lots as per the plan approved by CDFG.

David Weiss Postal Mail Box 131 1840 41st Avenue, #101 Capitola, CA 95010

April 2, 2010

Re: Registered Professional Forester's Assessment of TPZ Compatibility with Alta Vista Ocean View Estates Subdivision, Santa Cruz County Assessors' Parcel # 107-011-06.

Mr. Weis.

Jim Weaver contacted us on your behalf in early March 2010 and asked that I review the proposed subdivision named above. Because the subject parcel is zoned Timber Production (TP), the County's General Plan and Zoning Ordinances have a number of policies and regulations that dictate the circumstances and conditions under which development and/or subdivision may occur. In this particular instance, my assessment effectively requires four findings: 1) subdivision boundaries do not result in a significant reduction in the overall timbered acreage on the large, residual TP parcel (Lot 1); 2) subdivision boundaries do not intersect harvest roads, skid trails, etc. thereby disrupting the normal conduct of timber operations; 3) building envelopes do not permanently remove "timberland" from production; and 4) building envelopes, developed access roads, and/or other permanent improvements do not block or otherwise occupy timber harvest infrastructure such as roads, landings, or skid trails.

I reviewed all relevant subdivision maps, specifically Sheets C3 and C4 of C19, which were prepared by Civil Engineer, Joe Acres. I compared these maps with the property's Timber Harvest Plan (THP) maps, the USDA Soil Survey for Santa Cruz County (1980), aerial photographs, and other data from Santa Cruz County's interactive GIS website. I visited the site on March 18, 2010 to review proposed building envelopes and subdivision boundaries in order to make the findings discussed in the paragraph above, and to determine whether the proposed subdivision is compatible with long-term, commercial forest management. Particular emphasis was placed on reconnaissance in the northern portions of the newly created parcels (Lots 2-7), as the aerial photos suggested the presence of at least some commercial timber, but perhaps more importantly, the Lot lines appear to cross one of the primary seasonal roads used for log hauling.

Summary of Findings:

1) The proposed subdivision does not remove significant commercial timber from production. The majority of the commercial conifer trees within the newly created lots (Lots 2-7) are low quality Douglas-fir trees that have little, if any, commercial value. The dozen or so redwoods that are located within the newly created lots are widely scattered and amount to less than 1% of the overall timber acreage on APN # 107-011-06. The subdivision is not expected to have any measureable impact on the property's timber production capabilities.



- 2) The northern boundaries of the newly created Lot Lines intersect portions of the existing seasonal road network which is to be used for hauling forest products. In my professional opinion, this creates a compatibility issue, but one which can be remedied by implementing the following recommendation, which can be easily Recommendation: The "Recommended" Lot Line configuration shown on the attached "Alta Vista TPZ Compatibility Analysis Map" will address the compatibility concern created by the "Submitted" Lot Line configuration.
- 3) The building envelopes identified on Lots 2-7 do not contain any commercial timber.
- 4) The building envelopes, developed access roads, and/or other permanent improvements identified on Lots 2-7 do not block or otherwise occupy timber harvest infrastructure such as roads, landings, or skid trails.

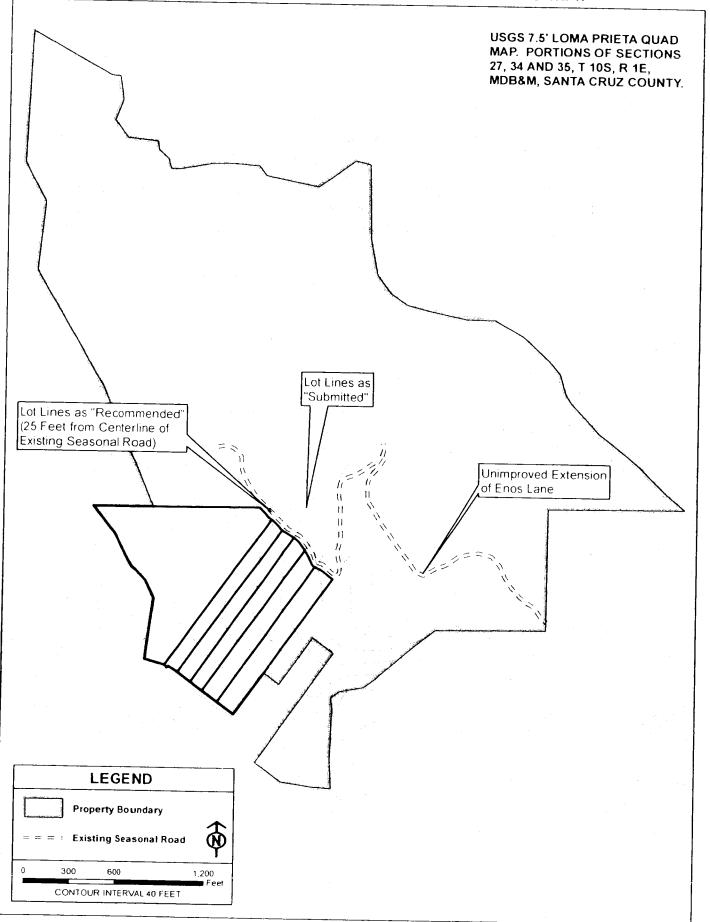
In conclusion, the proposed subdivision is expected to have a negligible impact on the timber resources and timber management activities on the residual TPZ parcel (Lot 1) so as long as access is maintained as recommended in Item 2 above. With productivity and access for timber management effectively unimpaired, the proposed project is physically compatible with the growing and harvesting of timber, consistent with the intent of the Forest Taxation Reform Act of 1976, as well as the purposes of County Code Chapter 13.10.370 (Timber Production Zoning).

Sincerely,

Cassady Bill Vaughan, RPF #2685

and Bell Vaglan

ALTA VISTA TPZ COMPATIBILITY ANALYSIS MAP



Staub Forestry & Environmental Consulting

Date Last Modified: 2 April 2010

ATTACHMEN 1

BASIS FOR ANALYSIS; TO BE COMPLETED BY STAFF

			00110	0//
Rı	ural Residential Density Matrix	Current Point Score	Conditional Point Score	51
1.	Location: Mountain Residential General Plan designation 12-foot minimum width road with turnouts * Conditional: establish 18-foot wide access road - and the care to Public Mountain	2)0	2*	JOT VERIFIE
2.	*Conditional: establish if private or mutual system - New York	· \	8*	
3.	Water Resource Protection: Septic Systems in areas w/out known pro Building sites within Water Supply Watershed areas and Primary Recharge	1 /	3	
4.	Timber Resources: Parcel zoned TP & located >2 miles from USL	0	0	
5.	Biotic Resource: Parcel w/in Sensitive Habitats *Conditional: Establish that all development activities are outside Designated Important Wildlife Habitats	(10)	10 (VEV	esfied)
5.	Erosion: Purisma Formation 1.35+2.72+2.65 Weighted average: 13.51%+33.99%+52.50% (14.63% excluded)	3+0= 4.07	4.07(%)	
7.	Seismic Activity: Fault Zone shown on plans, no potential for liquefactio *Conditional: Establish that no fault zones exist on parcels	on 5	10* ⊆	
3.	Landslide: Purisma Formation 1.22+2.72+2.62 Weighted average: 13.51%+33.99%+52.5% (14.63% excluded)	3+0= 6.57	6.57(4)	
) .	Fire Hazard: Parts of property in Critical Fire Hazard Area Less than 10 minute fire response time assumed. 12-foot wide private dead end road with secondary access assumed** Building sites located outside critical fire hazard area *Conditional: Establish that an 18-foot wide road exists	E)6+	8*! (NC)	or Lacines)
	** Without secondary access meeting county standards, division is only po	ssible at the lowe:	st density (40 acre	(s).
	SUBTOTAL SUBTRACT CUMULATIVE CONSTRAINT POINTS GRAND TOTAL	29.64 10.00 19.64 16.64	51.64 00.00 51.64	<u>. 6</u> 7 - 1
fro	nimum Average Developable Parcel Size*: m Mountain Residential Table minus Cumulative Constraint Points letermined by the point score)	·	25 acres	a je sa s
	nber of Potential Building Sites* velopable acreage divided by minimum average parcel size)	7-4	7	
	. crops on sereage arrived by mamman average pareer size)	'	,	:

*Over-riding minimum parcel size restriction, if applicable, takes precedence over the preliminary allowed average density in the event of conflict. SEE POLICIES ATTACHED

Additional information will be required as part of any future land division application to verify conditions.

- 146-



Pacific Rim Planning Group Land Use & Development Consultants

206 Morrissey Blvd Santa Cruz, CA. 95062 Ph: 831.457.2033

Fax: 831,471,2137
Email: pacrimplangrp@aol.com

MEMO

Date:

May 11, 2009

To:

Ms. Samantha Hashert; Project planner

From:

Jim Weaver

RE:

Matrix Application 07-0499 APN: # 107-011-05 & 107-071-02

Note:

Samantha -

Hope this finds you doing well. I am sending this to your attention as you were the project planner in September 2007 assigned to complete the matrix. Also I am not sure whom else to send it to. Since your letter of September 28, 2007 (attached) we applied for a biotic assessment (attached) to determine if any biotic issues existed on the property. A biotic assessment was completed by Ecosystems West (attached) determining that there was not a biotic issue. Matt Johnson's letter of December 5, 2008 (attached) stipulates that the Ecosystem West's report did not identify suitable habitat for special status species.

The result of the biotic assessment increases our matrix score in the current point category. The subtotal should be 39.64 (see attached matrix score sheet) and allows one additional parcel for a total of 5 parcels. The biotic assessment does not change the conditional point score but confirms that 10 points should be awarded in the biotic resource category.

ATTACHMENT 14

When reviewing your matrix, we believe that the conditional points allocated are as follows:

Location:

8 points is valid in that there is an 18 foot wide road

Groundwater:

8 points is valid since a private system will be provided

Water Resource:

No change

Timber:

No change

Biotic:

10 points per biotic assessment

Erosion:

No change

Seismic:

5 points is correct as we are assuming a fault trace

Landslide:

No change

Fire hazard:

8 points is valid in that there is an 18 foot wide road with

secondary access

If my math is correct the conditional score (which we believe can now be the current score) should be 46.64. Your matrix has the conditional score at 51.64. The 46.64 score allows a 25 acre parcel size, thus allowing 7 parcels.

I would like and appreciate your help in revising the existing matrix in your files. I only ask that the revision be associated with the biotic issue. The rest of the revisions noted above will need to be supported with additional information supplied by us. We are again working on a tentative map for 7 parcels. If there is a simple way for you to note the correct biotic score in the matrix file, there will be one less item to discuss when the tentative map application is submitted.

Thank you for your assistance and please let me know if there is anything I may do to assist.

Best wishes.

Im Wenver

Project Manager

ATTACLE 14

RURAL DENSITY MATRIX WORKSHEET

Application No. <u>07-0499</u>

This section is to be completed by the Applicant

**THIS PAGE WAS NOT SUBMITTED BY THE APPLICANT. ALL INFORMATION IS BASED ON PLAN SUBMITTED BY APPLICANT AND ESTIMATED FROM COUNTY GIS INFORMATION.

Assessor's Parce	l No.: <u>10</u>	7-011-05 & 107-071-02		
Name Mailing Address City, State, Zip Telephone	iling Address 1840 41 st Avenue y, State, Zip Capitola, CA 95010			
Access to site:	Yes	Name of Road: Telford Drive & Enos Lane		
Check which ap	pply:	Public, County maintained		
		Public, not County maintained		
		X Private		
		Dead-end road and greater than ½ mile from a through road (see General Plan Policies 6.5.4 and 6.5.5)		
		Not paved		
		Pavement width: 12' to 18' with turnouts at intervals of greater than 500 feet		
		Pavement width: 12' to 18' with turnouts at intervals of less than 500 feet		
		Pavement width: 18' or greater		
		Other		
Water Source:		County or municipal water district		
		X Private or mutual well		
		Spring		
Sewage Disposa	1:	Public or private sanitation district		
		Package treatment plant or septic maintenance district		
		X Septic system		
Total acreage	Parcel	(s): 335.6 Number of houses or habitable structures on parcel(s): 0		
Purpose of this	applicati	on:		
<u>X</u>	Deten	nine the minimum acreage per building site		
<u> </u>	X Determine the maximum number of parcels for a land division			
	Deten	nine the allowable density of an organized camp or conference center $\mathcal{L}(\mathbb{R}^{n})$		

BASIS FOR ANALYSIS; TO BE COMPLETED BY STAFF

Planning Areas:

Aptos Hills (107-071-02) & Eureka Canyon (107-011-05)

General Plan land use designation:

R-M (Mountain Residential)

Zone District:

RA-Residential Agriculture (107-071-02) & TP-Timber Production

(107-011-05)

Mapped Environmental Constraints:

Some slopes over 50%, Landslide areas, Possible Fault Zone

Resources (timber, agriculture, etc.)

Water Supply Watershed, Biotic, Streams

Access:

Telford Drive & Enos Lane

Fire Response Time (in minutes):

less than 10 minutes assumed

Property Characteristics

Source of the following data:

X In house X Plans submitted by Applicant

Parcel size (in acres): 335.6 acres

Source: EMIS

Acreage per Average Slope Category:

rage Slope Category:	Sq Ft	Acres	% of Parcel
Slope % 0-15 16-30 31-50 51+ Totals	1686637.7687 4240701.6641 6552191.6752 2139183.6615	38.72 97.35 150.42 49.12 335.6	11.54 29.01 44.82 14.63 100

Portions of Property Excluded as Undevelopable land (in acres):

1. Slopes in excess of 50%

49.12 acres

2. Road rights-of-way (estimated/additional rights-of-way may exist)

1.7 acres minimum (as per plans)

Riparian corridors, wooded arroyos, canyons, stream banks, areas of riparian vegetation.

12.6 acres (as per plans and GIS)

4. Lakes, streams, marshes, sloughs, wetlands, beaches, and areas within the 100 year flood plain.(area deducted in #3 above)

Unknown

5. Areas of recent or active landslides.

80.1 acres (as per plans)

6. Land within 50 feet of an active or potentially active fault trace.

10 acres (as per plans)

Type 1 & 2 prime agricultural land and mineral resource areas.

None mapped

Total acreage excluded (total of #'s 1 through 7, except overlaps)

153.52 ± acres minimum*

Total Developable Acreage (subtract # 8 from total acreage)

182.07 ± acres maximum*

*Approximations made with available information.

BASIS FOR ANALYSIS; TO BE COMPLETED BY STAFF

R	$oldsymbol{\psi}$	Current Point Score	Conditional Point Score
1.	Location: Mountain Residential General Plan designation 12-foot minimum width road with turnouts * Conditional: establish 18-foot wide access road	0	2*
2.	Groundwater Quality: IV - Adequate quantity/Good quality *Conditional: establish if private or mutual system	5	8*
3.	Water Resource Protection: Septic Systems in areas w/out known problem Building sites within Water Supply Watershed areas and Primary Recharge	ems 3	3
4.	Timber Resources: Parcel zoned TP & located >2 miles from USL	0	0
5.	Biotic Resource: Parcel w/in Sensitive Habitats *Conditional: Establish that all development activities are outside Designated Important Wildlife Habitats	0	10*
6.	Erosion: Purisma Formation 1.35+2.72+2.63+ Weighted average: 13.51%+33.99%+52.50% (14.63% excluded)	0= 4.07	4.07
7.	Seismic Activity: Fault Zone shown on plans, no potential for liquefaction *Conditional: Establish that no fault zones exist on parcels	5	10*
8.	Landslide: Purisma Formation 1.22+2.72+2.63+ Weighted average: 13.51%+33.99%+52.5% (14.63% excluded)	0= 6.57	6.57
9.	Fire Hazard: Parts of property in Critical Fire Hazard Area Less than 10 minute fire response time assumed. 12-foot wide private dead end road with secondary access assumed** Building sites located outside critical fire hazard area *Conditional: Establish that an 18-foot wide road exists ** Without secondary access meeting county standards, division is only poss	6** ible at the lowe	8* st density (40 acres).
	SUBTOTAL SUBTRACT CUMULATIVE CONSTRAINT POINTS GRAND TOTAL	29.64 10.00 19.64	51.64 00.00 51.64
(fro	nimum Average Developable Parcel Size*: om Mountain Residential Table minus Cumulative Constraint Points determined by the point score)	40 acres	25 acres
	mber of Potential Building Sites* velopable acreage divided by minimum average parcel size)	4	7

*Over-riding minimum parcel size restriction, if applicable, takes precedence over the preliminary allowed average density in the event of conflict. SEE POLICIES ATTACHED

Additional information will be required as part of any future land division application to verify site conditions.

Additional Comments:

Fire Hazard: Based on the submitted plans, the proposed building sites appear to be located off of Telford Drive, a private road. The plans are unclear on several issues; therefore, it is assumed that Telford Drive is a 12-foot wide, dead end road with turnouts. In addition, it appears on the plans that secondary access is provided by the "Emergency Access Road". If no secondary access actually exists and Telford Drive is found to be a 12-foot wide dead end road, the land division will be restricted to the lowest density allowed (40 acres minimum parcel size for the Mountain Residential General Plan Designation). This means that the land division will be restricted to a 40 acre minimum parcel size regardless of conditional points that may be obtained.

Portions of these properties are located within Critical Fire Hazard areas; although it appears that there are no proposed building sites in these areas. If a building site is proposed within the Critical Fire Hazard area on a dead end road and secondary access is not provided, development may consist of only one single family residence on the *existing lot of record* and all land divisions will be denied. If a building site is proposed within the Critical Fire Hazard area and is served by a through access road or by secondary access, development will only be allowed at the lowest density allowed by the General Plan (40 acre minimum parcel size for the Mountain Residential General Plan Designation).

- 2. Fault Zone: The submitted plans depict a fault zone that runs through the proposed parcels although no building sites are proposed within the fault zone. If proposed building sites lie within the fault zone, the land division will be required to meet a minimum parcel area of 20 gross acres. This fault zone is not shown in the County mapping system; therefore, as a part of a future discretionary review, the plans will need to be reviewed for accuracy by the County Geologist. In addition, land within 50-feet of the edge of the area of a fault is deducted from the density calculations for land divisions; therefore if the County Geologist determines that no fault zones exist on the subject properties, this area will not be deducted from the total developable land.
- 3. <u>Slope Stability:</u> Land containing slopes exceeding 50 percent in rural areas, and land with recent or active landslides must be excluded from density calculations for land divisions (See 1994 General Plan, 6.2.5, Page 6-7). Additional geologic, slope, and soils information will be required as part of any future land division application to verify site conditions as the submitted information is not consistent with County records.
- 4. <u>Parcel Size:</u> The assumed parcel size is based upon County records. Accurate parcel areas will have to be calculated by a licensed land surveyor as part of any land division application. All rights-of-way must be identified and shown on plans and deeds.
- 5. <u>Access:</u> It is assumed that the parcels have legal access from a developed right-of-way and/or public street. Proof of legal access, including deeds describing rights-of-way will be required with any land division application.

RURAL DENSITY MATRIX WORKSHEET

OVERRIDING MINIMUM ACREAGE POLICIES

COUNTY OF SANTA CRUZ PLANNING DEPARTMENT 701 OCEAN STREET SANTA CRUZ, CA 95060 (408) 454-2130

Assessor's Pard	cel No		· -
Application No.			_
and Lica Dian	policies, requiring a r	minimum oross acreage t	any overriding General Plan, or Local Coastal Program parcel size. SUCH MINIMUM SIZE RESTRICTIONS, IF ARY ALLOWED AVERAGE DENSITY IN THE EVENT OF
APPLICABLE	NOT APPLICABLE	MAY BE APPLICABLE	
	X		Parcel is within the Coastal Zone and Water Supply Watershed. The minimum parcel size is 20 acres.
			Parcel is outside the Coastal Zone and within a Water Supply Watershed. The minimum parcel size is 10 acres, except
	×		In San Lorenzo River Watershed where the General Plan designation is Suburban Residential.
	X		In San Lorenzo River Watershed for land designated Rural Residential where the average parcel size within 1/4 mile of the subject parcel is less than one acre.
	XÍ		In North Coast and Bonny Doon Water Supply Watersheds extending outside the Coastal Zone, the minimum parcel size of 20 acres.
		·. ·	Parcel is within a Least Disturbed Watershed. The minimum parcel size is 40 acres and then only if the division is consistent with open space protection and serves a special purpose beneficial to the public.
			Parcel is within a proposed reservoir site or adjacent to the high water mark of a proposed or existing water supply reservoir or surface division. No land division is allowed except for water oriented uses.

RURAL DENSITY MATRIX WORKSHEET OVERRIDING MINIMUM ACREAGE POLICIES

PAGE 3

APPLICABLE	NOT APPLICABLE	MAY APPLICABLE	
	P		Parcel is within a State or County designated seismic review zone. The minimum parcel size is 20 acres if building sites are located within the fault zone.
			Proposed parcels must locate on a non-deadend road or provide secondary fire access. If the building site is located within a 5 Minute Response time from the fire department and within 500 feet of a County maintained Road, the secondary access will not be required. If not possible, development allowed only at lowest density of General Plan designation Proposed parcels must locate within 20 minute response time from the responsible fire station. If not possible, development
			allowed only at lowest density of General Plan designation.
	, ⊠.		Parcel is in a Critical Fire Hazard area. Proposed building sites must locate outside of Critical Fire Hazard area. If the proposed building site is within a Critical Fire Hazard area and if the parcel is served by a through road or by secondary access development allowed only at lowest density of General Plan designation. If the building site is within the Critical Fire Hazard area and if the parcel is on a dead-end road and cannot develop secondary access, no land division may be approved.
	Þ		Parcel is within a Mitigatable Critical Fire Hazard area. If all criteria of Section 6.5.4 of the General Plan can be met, development may be considered at a density the same as for projects outside the Critical Fire Hazard area.
	Þ		Parcel is within the Coastal Zone. Prohibit land divisions that are more than ½ mile from a through road unless secondary access can be provided.

RURAL DENSITY MATRIX WORKSHEET OVERRIDING MINIMUM ACREAGE POLICIES

PAGE FIVE

NOT APPLICABLE	MAY BE APPLICABLE	
□ ,		Parcel is within a Primary Groundwater Recharge Area. The minimum parcel size is 10 acres, except when located within the Rural Services Line and is served by a sewage disposal system minimum parcel size is 10 acres, except when located within operated by a County Services area or public services district which provides at least secondary treatment with nitrogen removal or which disposes of effluent outside the primary groundwater recharge area.
À		Parcel is within a Special Forest. If development is proposed within the habitat, no division of land is allowed. If development is proposed outside the habitat, land divisions may be considered only at the lowest end of the General Plandesignation. Clustering is required.
A		Parcel is within a native or Mixed Grassland Habitat. If development is proposed within the habitat, no division of land is allowed. If development is proposed outside the habitat, land divisions may be considered only at the lowest end of the General Plan designation. Clustering is required.
	APPLICABLE	APPLICABLE APPLICABLE

Rdmw/056

Ministry

Pacific Rim Planning Group Land Use & Development Consultants 206 Morrissey Blvd Santa Cruz, Ca. 95062

Phone: 831-457-2033 Fax: 831-471-2137 Email: pacrimplangrp@aol.com

Memo

Date:

March 1, 2010

To:

Robin Bolster; Project Planner

From:

Jim Weaver: Project Manager

RE:

Neighborhood Meeting for Alta Vista Ocean View Estates

Note:

Robin -

Pursuant to County Code Section 18.10.211 we held two neighborhood meetings to present and discuss the proposed Alta Vista Ocean View Estates subdivision. The meetings were held on February 21, & 25, 2010. The first meeting was held at the property and the second at the Salesion Sister's School on Enos Lane. The attached Notice of Proposed Development was mailed to all property owners and residents within 300 feet (see attached mailing list) of the property. In addition, a couple of the neighbors emailed the notice to a wider group of residents.

The first meeting on February 21, 2010, held at 10 am in the morning was attended by 18 neighbors. The second meeting, held at 7 PM in the evening was attended by 8 neighbors. We have attached the attendance lists as required.

At the first meeting we provided a copy of the plans and offered a site visit. We also outlined the proposal, discussed access, water and septic for the proposed homes and type of homes to be constructed. All of the neighbors were familiar with the property and with the proposal. As we have been working on the project since 2005, we have engaged various neighbors and informally discussed the project during the last five years. A majority of the neighbors have walked/hiked on the property.

At the second meeting we provided 11x17 copies of the plans for those that wanted a copy. Again we presented an outline of the project, discussed access, road improvements and project timing for construction.

The predominated issue raised at both meetings was one of access. The property is reached by traveling up Enos Lane, past the school to Telford Lane. Portions of this route are public and portions are private. The main concern of most neighbors was the impact of additional traffic on the road. As you can ascertain from sheet 23 of the plan set, the route to the property varies from 18 down to 12 feet in width. Concern was raised about how the narrower portions of the road would handle the additional traffic. Additionally concern was raised about the impact construction vehicles would have on the private portions of the road surface.

We answered these concerns by assuring that: 1) we would meet County Design Standards for road width; and 2) we would use an alternative route for all construction vehicles. County General Plan and County Fire requirements state that an 18 foot wide road is required for rural areas. Where it may be environmentally infeasible to develop an 18 foot wide road, a 12 foot wide road with turn out may be allowed. Page 23 of the plan set demonstrates where the access road is at least 18 feet wide and where it drops to 12 feet. Essentially Enos Lane is at least 18 feet wide up to the Salesian Sisters School. From there it varies but never is less then 12 feet wide. Once Enos Lane connects with Telford Lane, the width of the road varies between 12 and 14 feet up to the property line. Sheet 23 also shows where the 12 foot portions of Enos Lane and Telford Drive will have turn outs pursuant to County requirements. Once Telford Lane reaches the property, the new extension will be 18 feet wide culminating in a cul-de-sac.

Pursuant to the concern about construction vehicles tearing up the private portions of either Enos Lane and/or Telford Lane, we agreed to have all construction vehicles use Rider Road. Rider Road provides access to the lower portion of the property. While there is no proposed development at the bottom of the property, there is an existing road that leads to the top of the property. This road is our proposed secondary/emergency access road. Also the current property owner is a member of the Road Association and pays for road upkeep. All future home owners in the proposed subdivision will also become members of the Road Association.

There were no other substantive issues raised by the neighbors. Having incorporated the neighbors concerns into our project, at these initial meetings, I believe we have met our requirements under County Code Section 18.10.211. We are committed to meeting with the neighbors throughout the planning process and assured them we will be back at various milestones in the process.

Notice of Proposed Development And Neighborhood Meeting

Meeting Date:

February 21, 2010

Meeting Time:

10 am

Meeting Location:

At the property located at the end of Telford Drive off Enos

Lane

Project Description:

A proposal to subdivide a 305 acre parcel into seven lots

ranging in size from 4 acres to 259 acres.

Purpose of Meeting:

The property owner would like to present the plans to the neighborhood and get their opinions and feed back before

submitting a formal application to the County of Santa

Cruz

Contact Person:

Please contact Project Manager Jim Weaver with any

questions and or concerns. Phone: 457-2033 email:

pacrimplangrp@aol.com

List of Attendees

Meeting of February 21, 2010

Robert George
Gary Britton
Larry Stephens
Robert Falconer
Ron Beeson
Pete Mirande
Thomas and Roberta Johndrew
Greg Nohrden
Ken and Susan Morrill
Kett and Melanie Wirtaken
Fred Ruiz
Alan Wirtanen
Camille Nash
Dennis Casey
Ted Breiling

Meeting of 2/25/2010

Camille Nash
Joe Reichett
Marti Atkinson
Katie Davis
Alen Wirtanen
Fred Ruiz
Pete Mirande
Tom Johndrew

00 BR 10613107 AO 10613107 10613113 GEORGE ROBERT K & MARY JANETTE T GEORGE ROBERT K & MARY JANETTE T Resident 600 RIDER RD 600 RIDER RD 782 RIDER RD WATSONVILLE CA 95076 WATSONVILLE CA 95076 WATSONVILLE CA 95076 10613145 00 10613144 BR 10613113 AO **BRITTON GARY SUCCESSOR TRUSTEE!** MORRILL KENNETH LEE & SUSAN TAYL(Resident C/O GRUNSKY LAW FIRM 185 BUZZARD LAGOON RD 336 RIDER RD WATSONVILLE CA 95076 WATSONVILLE CA 95076 240 WESTGATE DR WATSONVILLE CA 95076 10613146 00 10613144 BR 10613144 ΑO FALCONER ROBERT R U/M NOHRDEN DONALD C & GLORIA B TRUS Resident 183 BUZZARD LAGOON RD 334 RIDER RD 3350 LOMA ALTA LN SANTA CRUZ CA 95065 WATSONVILLE CA 95076 WATSONVILLE CA 95076 10701106 AO 10701104 00 10701103 BR SHAW AUSTIN R & SANDRA T TRUSTEES STEPHENS LARRY R ETAL Resident C/O DAVID J WEISS PMB 131 498 RIDER RD 338 RIDER RD WATSONVILLE CA 95076 WATSONVILLE CA 95076 1840 41ST AVE #102 CAPITOLA CA 95010 BR 10706101 AO 10702109 00 10708101 CALIFORNIA POLYTECHNIC STATE UNIV **BREILING THEODORE JOHN & MARILYN** Resident **FOUNDATION ADMIN OFF BLD 15** 163 BUZZARD LAGOON RD **2055 ENOS LN** WATSONVILLE CA 95076 WATSONVILLE CA 95076 SAN LUIS OBISPO CA 94307 10706115 AΩ 10702164 00 10708102 BR NOHRDEN GREGORY C & CYNTHIA R HA WIRTANEN MELANIE KETT & CARL ALAN Resident 7395 OAK RIDGE RD 177 BUZZARD LAGOON RD 337 RIDER RD APTOS CA 95003 WATSONVILLE CA 95076 WATSONVILLE CA 95076 10708101 AO 10706114 ററ RUIZ WILFREDO JR & TAMMY O H/W JT BEESON RONALD 1121 EDGEWOOD RD 700 TELFORD DR WATSONVILLE CA 95076 REDWOOD CITY CA 94062 10706120 00 10708102 AO. CASEY DENNIS E M/M S/S JOHNDREW THOMAS M & ROBERTA D T 600 TELFORD DR 2758 DEVONSHIRE REDWOOD CITY CA 94063 WATSONVILLE CA 95076

10708111 A0 BEESON RON S/M

1006 IRIS REDWOOD CITY CA 94061

10753107 AO SANTA CRUZ COUNTY OF 701 OCEAN ST SANTA CRUZ CA 95060

10706121

00

MIRANDE PETER R & MARTHA A TRUSTI 500 TELFORD DR

WATSONVILLE CA 95076

BR 10613107 Resident 604 RIDER RD

WATSONVILLE CA 95076

11/08/