

August 31, 2022

Fred Herring
1658 El Camino Real
San Carlos, CA 94070

SUBJECT: Emerald Lake Hills Design Review and Grading Permit Approval
Live Oak Lane, Emerald Lake Hills
APN 057-163-090; County File No. PLN 2019-00400

Dear Mr. Herring:

At the July 7, 2020 meeting, the Emerald Lake Hills Design Review Officer (DRO) considered a Design Review recommendation for a new, 2,468 sq. ft. single-family residence with a 457 sq. ft. detached two-car garage on an 8,231 sq. ft. legal parcel. The project requires a Grading Permit for earthwork in the amount of 396 cubic yards and six (6) significant trees are proposed to be removed (3 other trees listed for removal are less than 6 inches diameter at breast height).

Three members of the public spoke at the hearing. The owners of the property adjacent to the project site spoke, expressing concern over anticipated project construction impacts to improvements on their parcel, as well as drainage and tree removal impacts. They raised questions asked about the County's geotechnical review, which had not been completed at the time of the meeting. The DRO clarified that only the design of the project was being reviewed during the hearing and described the County's drainage review process.

At the hearing, the DRO stated that the project complies with applicable design standards for Emerald Lake Hills, including Section 6565.15.A (Site Planning) with respect to topography, privacy, and tree removal. Specifically, tree removal is minimized to the extent feasible as four (4) of the six (6) significant trees to be removed are non-native and within the footprint of the proposed structure; the two (2) native trees will be replaced with native trees; and remaining trees will be protected by implementation of a tree protection plan, which is required at the building permit application stage. The DRO stated that the building shape conforms with the requirement to minimize changes to the natural topography in Section 6565.15.D (Building Shape and Bulk) and the proposed materials are consistent with Section 6565.15.G (Colors and Materials). The DRO recommended the design for approval.



In 2021, after the design review hearing, the grading plans for the Grading Permit were reviewed and preliminarily approved by the Department of Public Works and the Planning and Building Department's Geotechnical Section. Staff hereby approves your application for a Design Review Permit and Grading Permit, subject to the following findings and conditions of approval.

FINDINGS

For the Environmental Review, Find:

1. This project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA), Guidelines Section 15303, Class 3, relating to construction of a small structure, including a single-family residence in a residential zone.

For the Design Review, Find:

2. After consideration of project plans and public testimony on July 7, 2020, the DRO found that the proposed house design, as proposed and conditioned, is in compliance with the Design Review Standards due to the incorporation of the following: (a) the site planning, including minimization of tree removal, privacy and topography changes, is consistent with the standards; (b) building bulk and shape conform to the existing topography; and (c) use of materials and colors is compatible with the natural setting and the immediate area.

For the Grading Permit, Find:

3. That the granting of the permit will not have a significant adverse effect on the environment. This project has been reviewed by the Department of Public Works and the Planning and Building Department's Geotechnical Section. Based on the foregoing, the project, as proposed and conditioned, can be completed without significant adverse effect to the environment.
4. That the project conforms to the criteria of Chapter 5 of the County's Building Code, including the standards referenced in Section 9296. The project, as proposed and conditioned, conforms to the standards in the Grading Ordinance, with regard to the erosion and sediment control plan, dust control plan, and timing of grading activity.
5. That the project is consistent with the General Plan. As proposed and conditioned, the project complies with General Plan Policies 2.23 (*Regulate Excavation, Grading, Filling, and Land Clearing Activities Against Accelerated Soil Erosion*) and 2.17 (*Erosion and Sedimentation*) because the project includes measures to control erosion and sediment both during grading and construction.

CONDITIONS OF APPROVAL**Current Planning Section**

1. The project shall be constructed in compliance with the plans approved by Community Development Director and plans reviewed by the Emerald Lake Hills Design Review Officer (DRO) on July 7, 2020. Any changes or revisions to the approved plans shall be submitted for review by the Community Development Director to determine if they are in substantial compliance with the approved plans, prior to being incorporated into the building plans. Adjustments to the design of the project may be approved by the Design Review Officer if they are consistent with the intent of and are in substantial conformance with this approval. Adjustments to the design during the building permit stage may result in the assessment of additional plan resubmittal or revision fees. Alternatively, the Design Review Officer may refer consideration of the adjustments, if they are deemed to be major, to a new Emerald Lake Hills Design Review public hearing which requires payment of an additional fee of \$1,500.
2. The design review and grading permit shall be valid for five (5) years from the date of final approval, in which time a building permit shall be issued, and a completed inspection (to the satisfaction of the building inspector) shall have occurred within 180 days of its issuance. The design review approval may be extended by one (1) year increment with submittal of an application for permit extension and payment of applicable extension fees sixty (60) days prior to the expiration date.
3. Six (6) tree non-native and two (2) native significant trees are approved for removal. Trees designated to remain shall be protected from damage during construction. Any additional tree removal is subject to the San Mateo County Tree Ordinance and will require a separate permit for removal.
4. The applicant shall plant a minimum of six (6) 15-gallon replacement trees, four (4) of which shall be oaks, prior to final approval of the building permit. The applicant shall provide photographs to the Design Review Officer to verify adherence to this condition prior to a final building permit approval by the Current Planning Section.
5. At the time of building permit application, if applicable, the applicant shall submit a tree protection plan for any work within tree driplines or adjacent to off-site trees, including the following:
 - a. Identify, establish, and maintain tree protection zones throughout the entire duration of the project.
 - b. Isolate tree protection zones using 5-foot tall, orange plastic fencing supported by poles pounded into the ground, located at the driplines as described in the arborist's report.
 - c. Maintain tree protection zones free of equipment and materials storage; contractors shall not clean any tools, forms, or equipment within these areas.

- d. If any large roots or large masses of roots need to be cut, the roots shall be inspected by a certified arborist or registered forester prior to cutting as required in the arborist's report. Any root cutting shall be undertaken by an arborist or forester and documented. Roots to be cut shall be severed cleanly with a saw or topplers. A tree protection verification letter from the certified arborist shall be submitted to the Planning Department within five (5) business days from site inspection following root cutting.
 - e. Prior to Issuance of a building permit, the Planning and Building Department shall complete a pre-construction site inspection, as necessary, to verify that all required tree protection and erosion control measures are in place.
6. The approved exterior colors and materials shall be verified prior to final approval of the building permit. The applicant shall provide photographs to the Design Review Officer to verify adherence to this condition prior to final Planning approval of the building permit.
7. Prior to the Current Planning Section approval of the building permit application, the applicant shall also have the licensed land surveyor or engineer indicate on the construction plans: (1) the natural grade elevations at the significant corners (at least four) of the footprint of the proposed structure on the submitted site plan, and (2) the elevations of proposed finished grades. In addition, (1) the natural grade elevations at the significant corners of the proposed structure, (2) the finished floor elevations, (3) the topmost elevation of the roof, and (4) the garage slab elevation must be shown on the plan, elevations, and cross-section (if one is provided).
8. Once the building is under construction, prior to the below floor framing inspection or the pouring of the concrete slab (as the case may be) for the lowest floor(s), the applicant shall provide to the Building Inspection Section a letter from the licensed land surveyor or engineer certifying that the lowest floor height, as constructed, is equal to the elevation specified for that floor in the approved plans. Similarly, certifications on the garage slab and the topmost elevation of the roof are required.
9. If the actual floor height, garage slab, or roof height, as constructed, is different than the elevation specified in the plans, then the applicant shall cease all construction and no additional inspections shall be approved until a revised set of plans is submitted to and subsequently approved by both the Building Official and the Community Development Director.
10. The applicant shall adhere to all requirements of the San Mateo County Building Inspection Section, the Department of Public Works, and the County Fire Department.
11. No site disturbance shall occur, including any grading or tree/vegetation removal, until a building permit has been issued.

12. To reduce the impact of construction activities on neighboring properties, comply with the following:
 - a. All debris shall be contained on-site; a dumpster or trash bin shall be provided on-site during construction to prevent debris from blowing onto adjacent properties. The applicant shall monitor the site to ensure that trash is picked up and appropriately disposed of daily.
 - b. The applicant shall remove all construction equipment from the site upon completion of the use and/or need of each piece of equipment which shall include but not be limited to tractors, back hoes, cement mixers, etc.
 - c. The applicant shall ensure that no construction-related vehicles impede through traffic along the right-of-way on Live Oak Lane. All construction vehicles shall be parked on-site outside the public right-of-way or in locations which do not impede safe access on Live Oak Lane. There shall be no storage of construction vehicles in the public right-of-way.
13. Noise sources associated with demolition, construction, repair, remodeling, or grading of any real property shall be limited to the hours from 7:00 a.m. to 6:00 p.m., weekdays, and 9:00 a.m. to 5:00 p.m., Saturdays. Said activities are prohibited on Sundays, Thanksgiving, and Christmas (San Mateo County Ordinance Code Section 4.88.360).
14. All new power and telephone utility lines from the street or nearest existing utility pole to the main dwelling and/or any other structure on the property shall be placed underground.
15. The property owner shall adhere to the San Mateo Countywide Stormwater Pollution Prevention Program "General Construction and Site Supervision Guidelines" including, but not limited to, the following:
 - a. Delineation with field markers of clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses within the vicinity of areas to be disturbed by construction and/or grading.
 - b. Protection of adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.
 - c. Perform clearing and earth-moving activities only during dry weather.
 - d. Stabilization of all denuded areas and maintenance of erosion control measures continuously between October 1 and April 30.
 - e. Storage, handling, and disposal of construction materials and wastes properly, so as to prevent their contact with stormwater.

- f. Control and prevention of the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, wash water or sediments, and non-stormwater discharges, to storm drains and watercourses.
- g. Use of sediment controls or filtration to remove sediment when dewatering site and obtain all necessary permits.
- h. Avoiding cleaning, fueling, or maintaining vehicles on-site, except in a designated area where wash water is contained and treated.
- i. Limiting and timing application of pesticides and fertilizers to prevent polluted runoff.
- j. Limiting construction access routes and stabilization of designated access points.
- k. Avoiding tracking dirt or other materials off-site; cleaning off-site paved areas and sidewalks using dry sweeping methods.
- l. Training and providing instruction to all employees and subcontractors regarding the Watershed Protection Maintenance Standards and construction Best Management Practices.
- m. Additional Best Management Practices in addition to those shown on the plans may be required by the Building Inspector to maintain effective stormwater management during construction activities. Any water leaving the site shall be clear and running slowly at all times.
- n. Failure to install or maintain these measures will result in stoppage of construction until the corrections have been made and fees paid for staff enforcement time.

Landscaping

- 16. No landscaping was proposed at the time of planning permit review. At the time of building permit application, the applicant shall submit landscape plans consistent with the Design Review standards, subject to review and approval of the Community Development Director. All landscaping shall be installed consistent with the approved plans prior to Planning's final approval of the building permit.
- 17. The project is subject to compliance to the Water Efficient Landscape Ordinance (WELO): <http://planning.smcgov.org/documents/water-efficient-landscape-ordinance-welo>.

Grading

18. No grading shall be allowed during the winter season (October 1 to April 30) to avoid potential soil erosion, unless the applicant applies for an Exception to the Winter Grading Moratorium and the Community Development Director grants the exception. Exceptions will only be granted if the associated building permit is a week or less from being issued, dry weather is forecasted during scheduled grading operations, and the erosion control plan includes adequate winterization measures (amongst other determining factors).
19. Add notes to plans submitted for a building permit with the following minimum dust control measures:
 - a. Water all construction and grading areas at least twice daily.
 - b. Cover all trucks hauling soil, sand, and other loose materials, or require all trucks to maintain at least 2 feet of freeboard.
 - c. Pavement apply water two times daily or apply (non-toxic) soil on all unpaved access roads, parking areas, and staging areas at the project site.
 - d. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.
 - e. Enclose, cover, water twice daily, or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.).
20. Prior to issuance of the grading permit "hard card," the property owner shall submit a schedule of all grading operations to the Current Planning Section, subject to review and approval by the Current Planning Section. Along with the "hard card" application, the applicant shall submit a letter to the Current Planning Section, at least two weeks prior to commencement of grading, stating the date when grading operations will begin, anticipated end date of grading operations, including dates of revegetation, and haul route. If the schedule of grading operations calls for the grading to be completed in one dry season, then the winterization plan shall be considered a contingent plan to be implemented if work falls behind schedule.
21. It shall be the responsibility of the engineer of record to regularly inspect the erosion control measures for the duration of all grading remediation activities, especially after major storm events, and determine that they are functioning as designed and that proper maintenance is being performed. Deficiencies shall be immediately corrected, as determined by and implemented under the observation of the engineer of record.
22. An Erosion Control and/or Tree Protection Inspection is required prior to the issuance of a building permit for grading, construction, and demolition purposes, as the project requires tree protection of significant trees and a grading permit. Once all review agencies have approved your building permit, you will be notified that an approved job copy of the Erosion Control and/or Tree Protection Plan is ready for pick-up at the

Planning counter of the Planning and Building Department. Once the Erosion Control and/or Tree Protection measures have been installed per the approved plans, please send photos to the Project Planner. If the initial pre-site inspection is not approved, an additional inspection fee will be assessed for each required re-inspection until the job site passes the Pre-Site Inspection, or as determined by the Project Planner.

23. For the final approval of the grading permit, the property owner shall ensure the performance of the following activities within thirty (30) days of the completion of grading at the project site: (a) the engineer shall submit written certification that all grading has been completed in conformance with the approved plans, conditions of approval/mitigation measures, and the Grading Regulations, to the Department of Public Works and the Planning and Building Department's Geotechnical Engineer; and (b) the geotechnical consultant shall observe and approve all applicable work during construction and sign Section II of the Geotechnical Consultant Approval form, for submittal to the Planning and Building Department's Geotechnical Engineer and the Current Planning Section.

Building Inspection Section

24. A building permit is required.
25. The project is located in a Very High Fire Hazard Severity Zone and shall be designed and constructed accordingly.

Drainage Section

26. Prior to the issuance of the building permit, the applicant shall have prepared, by a registered civil engineer, a drainage analysis of the proposed project and submit it to the Drainage Section for review and approval. The drainage analysis shall consist of a written narrative and a plan. The flow of the stormwater onto, over, and off the property shall be detailed on the plan and shall include adjacent lands as appropriate to clearly depict the pattern of flow. The analysis shall detail the measures necessary to certify adequate drainage. Post-development flows and velocities shall not exceed those that existed in the pre-developed state. Recommended measures shall be designed and included in the improvement plans and submitted to the Drainage Section for review and approval.
27. Please revise the drainage calculations and drainage plan to address the following comments at this time.
28. For projects that replace greater than 50% of existing impervious area, pre-development condition is considered an empty lot, not the pre-project condition. Please revise drainage calculations to demonstrate that post-development flows are less than or equal to pre-development flows.
29. Check for errors in the storm runoff calculations. (e.g., 198-127 is not 22 cubic feet; the detention basin porosity factor should be 0.3, not 0.7 in the "net volume per basin" calculation)

30. Use a minimum volume safety factor of 1.5.
31. Lower detention basin appears to be in flow line of seasonal stream. Infiltration basins cannot overlap with seasonal high groundwater.
32. Confirm detention basins will not overly negatively impact trees to be preserved.
33. Show elevations for driveway. Is the driveway on a bridge or is it on fill? Show any required retaining walls (including those for terraces) and associated subdrains on grading and drainage plan. Please let me know if you have any questions. Please note that the following will be required at the time of the building permit submittal.
34. Drainage Report prepared and stamped by a Registered Civil Engineer demonstrating that the project complies with the County's current drainage policy restricting additional stormwater flows from development projects.
35. A final Grading and Drainage Plan prepared and stamped by a Registered Civil Engineer.
36. An updated C3/C6 Checklist (please provide electronically).

Local Agency Formation Commission

37. Property is within the City of Redwood City water service area. Plans should be routed to the City of Redwood City for review and comment. An application for an Outside Service Agreement shall be submitted to and approved by the City of Redwood City and San Mateo County LAFCo prior to the issuance of a building permit on the parcel. The connection to the City of Redwood City water utility shall not occur prior to this Outside Service Agreement approval. The property owner or the applicant may contact LAFCo for additional information about the Outside Service Agreement process.
38. The property is also within the service area of the Emerald Lake Sewer District (District), a County governed district. The applicant shall work directly with the County to annex the parcel to the District for sewer service.

County Fire Department

39. Fire Department access shall be within 150 feet of all exterior portions of the facility and all portions of the exterior walls of the first story of the buildings as measured by an approved access route around the exterior of the building or facility. Access shall be a minimum of 20 feet wide, all-weather capability, and able to support a fire apparatus weighing 75,000 lbs. Where a fire hydrant is located in the access, a minimum of 26 feet is required for a minimum of 20 feet on each side of the hydrant. This access shall be provided from a publicly maintained road to the property. Grades over 15% shall be paved and no grade shall be over 20 percent. When gravel roads are used, it shall be class 2 base or equivalent compacted to 95 percent. Gravel road access shall be

certified by an engineer as to the material thickness, compaction, all weather capability, and weight it will support.

40. All buildings that have a street address shall have the number of that address on the building, mailbox, or other type of sign at the driveway entrance in such a manner that the number is easily and clearly visible from either direction of travel from the street. New residential buildings shall have internally illuminated address numbers contrasting with the background so as to be seen from the public way fronting the building. Residential address numbers shall be at least 6 feet above the finished surface of the driveway. An address sign shall be placed at each break of the road where deemed applicable by the San Mateo County Fire Department. Numerals shall be contrasting in color to their background and shall be no less than 4 inches in height and have a minimum 1/2-inch stroke. Remote signage shall be a 6-inch by 18-inch green reflective metal sign.
41. Contact the Fire Marshal's Office to schedule a Final Inspection prior to occupancy and Final Inspection by a Building Inspector. Allow for a minimum of 72 hours' notice to the Fire Department at 650/573-3846. A fire flow of 500 gpm for 2 hours with a 20-psi residual operating pressure must be available as specified by additional project conditions to the project site. The applicant shall provide documentation including hydrant location, main size, and fire flow report at the building permit application stage. Inspection required prior to Fire's final approval of the building permit or before combustibles are brought on site.
42. Contact the Fire Marshal's Office to schedule a Final Inspection prior to occupancy and Final Inspection by a Building Inspector. Allow for a minimum of 72 hours' notice to the Fire Department at 650/573-3846.
43. A fire flow of 500 gpm for 2 hours with a 20-psi residual operating pressure must be available as specified by additional project conditions to the project site. The applicant shall provide documentation including hydrant location, main size, and fire flow report at the building permit application stage. Inspection required prior to Fire's final approval of the building permit or before combustibles are brought on site.
44. Any chimney or woodstove outlet shall have installed onto the opening thereof an approved (galvanized) spark arrestor of a mesh with an opening no larger than 1/2 inch in size or an approved spark arresting device. Maintain around and adjacent to such buildings or structures a fuel break/firebreak made by removing and cleaning away flammable vegetation for a distance of not less than 30 feet and up to 100 feet around the perimeter of all structures or to the property line, if the property line is less than 30 feet from any structure. This is not a requirement nor an authorization for the removal of live trees. Remove that flammable portion of any tree which extends within 10 feet of the outlet of any chimney or stovepipe, or within 5 feet of any portion of any building or structures. Remove the dead or dying portion of any tree which extends over the roof line of any structure.

45. All roof assemblies in Very High Fire Hazard Severity Zones shall have a minimum CLASS-A fire resistive rating and be installed in accordance with the manufacturer's specifications and current California Building and Residential Codes.
46. Smoke alarms and carbon monoxide detectors shall be installed in accordance with the California Building and Residential Codes. This includes the requirement for hardwired, interconnected detectors equipped with battery backup and placement in each sleeping room in addition to the corridors and on each level of the residence.
47. An approved Automatic Fire Sprinkler System meeting the requirements of NFPA-13D shall be required to be installed for your project. Plans shall be submitted to the San Mateo County Building Inspection Section for review and approval by the authority having jurisdiction.
48. A statement that the building will be equipped and protected by automatic fire sprinklers must appear on the title page of the building plans.
49. This project is located in a wildland urban interface area. Roofing, attic ventilation, exterior walls, windows, exterior doors, decking, floors, and underfloor protection to meet CRC R327 or CBC Chapter 7A requirements.

Department of Public Works

50. Prior to the issuance of the building permit or planning permit (if applicable), the applicant shall submit a driveway "Plan and Profile," to the Department of Public Works, showing the driveway access to the parcel (garage slab) complying with County Standards for driveway slopes (not to exceed 20%) and to County Standards for driveways (at the property line) being the same elevation as the center of the access roadway. When appropriate, as determined by the Department of Public Works, this plan and profile shall be prepared from elevations and alignment shown on the roadway improvement plans. The driveway plan shall also include and show specific provisions and details for both the existing and the proposed drainage patterns and drainage facilities.
51. No proposed construction work within the County right-of-way shall begin until County requirements for the issuance of an encroachment permit, including review of the plans, have been met and an encroachment permit issued. Applicant shall contact a Department of Public Works Inspector 48 hours prior to commencing work in the right-of-way.
52. Prior to the issuance of the building permit, the applicant will be required to provide payment of "roadway mitigation fees" based on the square footage (assessable space) of the proposed building per Ordinance No. 3277.

Geotechnical Section

53. The Project Engineering Geologist should provide a site map plotting the limits of undocumented fill at the site.
54. The Project Engineering Geologist should provide sections through the proposed improvements indicating the depth of undocumented fill, colluvium, and bedrock across the building area. The County recommends sections include additional annotations indicating the depth of proposed cuts and the layout of proposed retaining walls. Section alignments should consider existing improvements on neighboring properties and existing roadway improvements.
55. The Project Geotechnical Consultant should clarify appropriate passive pressures for the recommended pier and grade beam foundation type.
56. The Project Geotechnical Consultant should discuss temporary cut-slope excavation stability, and the anticipated depth of cuts necessary for the subject project. The consultant should discuss whether shoring or other measures (e.g., monitoring or a preconstruction survey, etc.) should be anticipated for excavations in proximity to property lines or existing improvements.
57. The Project Geotechnical Consultant should clarify whether on site soils (logged and tested as CH) are appropriate for use as engineered fill.
58. The Project Geotechnical Consultant should also clarify whether proposed foundations need to account for uplift pressures from expansive site soils.
59. The Project Geotechnical Consultant should consider the benefits of additional non-expansive subgrade for site flatwork and slabs-on-grade given the identified expansive soils.

This approval may be appealed by the applicant or any aggrieved party on or before **5:00 p.m. on September 15, 2022**, the tenth working day following this action. An appeal is made by completing and filing a Notice of Appeal, including a statement of grounds for the appeal, with the Planning and Building Department, and paying the applicable fee of \$616.35.

Further information may be obtained by calling Erica Adams, Project Planner, at 650/363-1828 or by email at eadams@smcgov.org.

To provide feedback, please visit the Department's Customer Survey at the following link: <http://planning.smcgov.org/survey>.

Sincerely,

FOR STEVE MONOWITZ
COMMUNITY DEVELOPMENT DIRECTOR, By:

A handwritten signature in black ink, appearing to read "Camille Leung". The signature is written in a cursive, flowing style.

Camille Leung, Senior Planner

CML:EDA:mda – EDAGG0273_WMN.DOCX

Cc: Baird Lands Inc., Owner
Interested Parties