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Filed: 49th Day: 180th Day: Staff: Staff Report: Hearing Date: Commission Action:

December 12, 1996 January 30, 1997 June 10, 1997 Bill Van Beckum December 20, 1996 January 9, 1997

STAFF REPORT: CONSENT CALENDAR

APPLICATION NO.: 1-96-05

APPLICANTS:

PROJECT LOCATION: 49 Wharf Road, Bolinas, Marin County, APN 193-061-19

CLARENCE C. KENT

PROJECT DESCRIPTION: Repair and reconfigure an integrated ± 250-foot-long concrete seawall/boat dock structure by: (1) strengthening 145-165 feet of both the north and south ends by installing tie rods and concrete deadmen behind the structure; (2) replacing the center 60-foot section (fixed dock area) with a floating dock and concrete stepped terrace wall within an on-shore excavated area; and (3) protecting 140 contiguous feet of the reconfigured structure's toe by placing an 18-inch-high by 4-foot-wide strip of rip-rap (maximum 200 lb. rocks over existing sacked concrete re-installed over new filter fabric) on the adjacent mudflat.

PLAN/ZONING DESIGNATION:

Coastal Residential, Agricultural/C-R-A: B-2 (10,000 sg.ft. lot min.)

LOCAL APPROVALS RECEIVED: County of Marin Design Review and Tidelands Permit Exemptions

SUBSTANTIVE FILE DOCUMENTS: Marin County Local Coastal Program

STAFF NOTES:

<u>Standard of Review</u>. The proposed project is located on the west shore of Bolinas Lagoon. Marin County has a certified LCP, but the project site is in tidal areas within the Commission's retained jurisdiction. Therefore, the standard of review that the Commission must apply to the project is the Chapter 3 policies of the Coastal Act.

STAFF RECOMMENDATION:

The staff recommends that the Commission adopt the following resolution:

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I. <u>Approval with Conditions</u>.

The Commission hereby <u>grants</u> a permit, subject to the conditions below, for the proposed development on the grounds that the development will be in conformity with the provisions of Chapter 3 of the California Coastal Act of 1976, is located between the sea and the first public road nearest the shoreline and is in conformance with the public access and public recreation policies of Chapter 3 of the Coastal Act, and will not have any significant adverse impacts on the environment within the meaning of the California Environmental Quality Act.

II. <u>Standard Conditions</u>. See Attachment A.

III. <u>Special Conditions</u>.

1. <u>Construction Debris Removal</u>.

All construction debris shall be removed from the site and disposed of at a lawful disposal site. Any floating debris allowed to enter the waters of Bolinas Lagoon shall be retrieved and lawfully disposed of.

2. U.S. Army Corps of Engineers Review.

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, the applicants shall provide to the Executive Director a copy of a U.S. Army Corps of Engineers permit, letter of permission, or nationwide permit granted for the project.

IV. Findings and Declarations.

The Commission hereby finds and declares as follows:

1. <u>Project and Site Description</u>.

The proposed development site is a 1.37-acre parcel on the west shore of Bolinas Lagoon, in the town of Bolinas. See <u>Exhibit 1</u>. The parcel contains a single-family residence and established landscaping.

The applicant proposes to repair an approximately 250-foot-long concrete seawall that protects the northeast side of the property. The structure has a maximum height of about 10 feet. Although the age of the deteriorating seawall is not known, it predates 1969, when some remedial work to the seawall was performed. A geotechnical investigation for the project (Miller Pacific Engineering Group, May 16, 1996) describes the present condition of the seawall:

The seawall has settled, cracked and rotated towards the lagoon in several areas, with the largest deflections occurring in the mid to southern sections of the wall. In addition to the rotation and settlement of the wall, the base of the wall has been undermined and subjected to erosion from the tidal lagoon waters. The undermining of the wall has resulted in a 40-foot long erosion depression where the backfill settled and washed out from beneath the concrete wall. It was reported that during higher high tides, the settled portion of the wall is overtopped. This overtopping apparently results in additional loss of wall backfill and debris cleanup. Near the middle of the wall, there is a section of deteriorated concrete and a void with exposed rebar.

The proposed rehabilitation of the seawall includes the following components: (1) strengthening 145-165 feet of the structure's north and south ends by installing tie rods and concrete deadmen behind the structure; (2) replacing the structure's center 60-foot section (which includes a fixed dock) with a floating dock and concrete stepped terrace wall within an on-shore excavated area; and (3) protecting 140 contiguous feet of the reconfigured structure's toe by placing an 18-inch-high and 4-ft-wide strip of rip-rap (maximum 200 lb. rocks over existing sacked concrete re-installed over new filter fabric) on the adjacent mudflat. See <u>Exhibit 3</u>.

2. <u>Fill in Coastal Waters and Protection of Marine Resources</u>.

The Coastal Act defines fill as including "earth or any other substance or material ... placed in a submerged area." The proposed project includes the placement of fill in coastal waters in the form of rip-rap and filter fabric that will be placed in a submerged lagoon-edge area now occupied by protective sacked concrete. The filter fabric and riprap will cover a total of approximately 560 square feet of tidal and submerged area, much of which is already covered by the concrete sacks. Although the actual increase of lagoon bottom coverage is minimal, the placement of the new materials in a submerged area meets the Coastal Act definition of fill. The seawall itself, although being reconfigured in part, to include a central terraced area with a floating dock, will not protrude into the lagoon beyond the limits of the existing structure.

Sections 30233 and 30235 of the Coastal Act address the placement of fill within coastal waters and the construction of seawalls. Section 30233(a) provides as follows, in applicable part:

(a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:

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(1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.

(2) Maintaining existing, or restoring previously dredged, depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.

(3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if, in conjunction with such boating facilities, a substantial portion of the degraded wetland is restored and maintained as a biologically productive wetland. The size of the wetland area used for boating facilities, including berthing space, turning basins, necessary navigation channels, and any necessary support service facilities, shall not exceed 25 percent of the degraded wetland.

(4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.

(5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.

(6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.

(7) Restoration purposes.

(8) Nature study, aquaculture, or similar resource dependent activities.

Section 30235 provides, in applicable part:

Revetments, breakwaters, groins, harbor channels, seawalls, cliff retaining walls, and other such construction that alters natural shoreline processes shall be permitted when required to serve coastal-dependent uses or to protect existing structures or public beaches in danger from erosion, and when designed to eliminate or mitigate adverse impacts on local sand supply.

The above policies set forth a number of different limitations on what seawall fill projects may be allowed in coastal waters. For analysis purposes, the limitations can be grouped into four general categories or tests. These tests are:

- - a. that the purpose of the seawall fill is either for one of eight uses allowed under Section 30233, to serve coastal dependent uses, or to protect existing structures or public leaches in danger from erosion; and
 - that the project is designed to eliminate or mitigate adverse b. impacts on local sand supply; and
 - that the project has no feasible less environmentally damaging с. alternative: and
 - d. that adequate mitigation measures to minimize the adverse impacts of the proposed project on habitat values have been provided.

Purpose of Seawall Fill

The proposed project, although not an allowable use for fill under Section 30233(a), meets the first limitation regarding project purpose as the purpose of the project is to protect an existing residence from erosion, consistent with Section 30235.

Protection of Sand Supply

The project also meets Section 30235 criteria regarding the protection of local shoreline sand supply because it would repair an existing seawall and there is no evidence that the existing seawall has had any effect on existing local shoreline sand supplies. The nearest sandy beach is located approximately 1/2 mile south of the site, at the entrance to the Bolinas Lagoon at Bolinas Beach, which faces the west end of the Seadrift spit. The sand supplies at Bolinas Beach and the Seadrift spit are stongly effected by ocean wave dynamics, and not primarily by currents and wave action within the lagoon. The proposed repairs of the seawall with its minimal encroachment onto the mudflat will not affect ocean wave dynamics. In addition, the proposed revetment fill will not placed to augment an existing seawall that already acts to contain the bank material from eroding into the bay and becoming part of the local sand supply.

Alternatives

No feasible alternatives to the proposed project resulting in less environmental damage have been identified. The "no project" alternative would eventually result in further deterioration of the seawall and the introduction of presently contained materials into the lagoon. The applicant's "alternatives" discussion notes that in a "no project" scenario:

The dock area and the area to the south can be expected to fall in to the lagoon within the next few years. This would release the existing backfill soil into the lagoon and lead to some extensive dredging, breaking up and lifting large fragments of wall from the water, and the

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construction of a new wall. The resulting disturbance is not considered appropriate from ecological or cost perspectives.

Therefore, the no project alternative is neither feasible nor a less environmentally damaging alternative as it will not accomplish the project objectives of protecting the existing residential development from erosion and collapse and will eventually lead to degradation of the lagoon by allowing structural debris and backfill material to escape into the lagoon.

The alternative of using soil-anchored tiebacks drilled through the seawall was favored by the applicant during the early stages of design development, but was subsequently "rejected because geotechnical investigation revealed that the soils at the back of the wall would not provide sufficient support to the tiebacks. The tiebacks would be excessively long and require casing, therefore requiring extensive work at the lagoon side of the wall."

The applicant selected the proposed method of repair, i.e., a combination of tie rods with deadmen walls for seawall support and rip-rap as toe protection, because the structural elements can be installed from behind the seawall and the rip-rap can be manually placed, "undertaken at low tides only ... with lifting assistance from the land."

No other feasible alternatives for repairing the existing structures have been identified that would involve less fill and less disruption to the lagoon.

Adequate Mitigation Measures

The area to receive the fill consists of 560 square feet of unvegetated mudflat covered in many areas with pieces of concrete. The portion of mudflat not covered by the concrete supports a variety of worms, mollusks, and other benthic organisms. The area covered by concrete may provide habitat for such invertebrates as barnacles and mussels. The minor loss of mud flat area and hard bottom habitat to be displaced by the toe fill for the seawall is not proposed to be offset by the removal of other material. The Commission finds that the adverse impact of the limited amount of additional riprap material on invertebrates and benthic organisms will be offset by the new habitat that the surface area of the riprap is expected to provide for such invertebrates as barnacles and mussels. Such hard intertidal substrate is relatively limited within Bolinas Lagoon. Therefore, the Commission finds that no additional mitigation is necessary for the minor displacement of bottom habitat.

The project could have an adverse impact on the water quality of Bolinas Lagoon if construction debris were allowed to enter the water. To ensure that the project is consistent with Coastal Act Section 30231 which requires, in part, that the quality of coastal waters be maintained, the Commission attaches Special Condition No. 1, which requires all construction debris to be removed from the site and lawfully disposed of, including any floating debris that enters the water.

<u>Conclusion</u>

The Commission thus finds that the project, although not one of the allowable uses for fill of coastal waters under Section 30233(a), is allowable as a repair of a seawall to protect an existing structure under Section 30235, will not create adverse impacts on local shoreline sand supplies, is the least environmentally damaging feasible alternative, and includes adequate mitigation for the minor impacts associated with project construction activities will be provided. Therefore, the Commission finds that the proposed development is consistent with Sections 30231, 30233 and 30235 of the Coastal Act.

3. <u>Public Access</u>.

Section 30212 of the Coastal Act requires that access from the nearest public roadway to the shoreline be provided in new development projects except where it is inconsistent with public safety, military security, or protection of fragile coastal resources, or adequate access exists nearby. Section 30211 requires that development not interfere with the public's right to access gained by use or legislative authorization. In applying Section 30211 and 30212, the Commission is also limited by the need to show that any denial of a permit application based on these sections, or any decision to grant a permit subject to special conditions requiring public access, is necessary to avoid or offset a project's adverse impact on existing or potential access.

Although the project is located between the first public road, Wharf Road, and the sea, it will not adversely affect public access. No public access exists on the site that could potentially be affected by the project. In addition, the proposed seawall repairs will not change the nature or intensity of residential use, and thus will not create any new demand for public access or otherwise create any additional burdens on public access. Therefore, the Commission finds that the proposed project does not have any adverse effect on public access, and that the project as proposed is consistent with the requirements of Coastal Act Sections 30210, 30211, and 30212.

4. <u>Visual Resources</u>.

Section 30251 of the Coastal Act states that the scenic and visual qualities of coastal areas be considered and protected as a resource of public importance, and requires in applicable part that permitted development be sited and designed to protect views to and along the ocean and scenic coastal areas, to minimize the alteration of natural land forms, and to be visually compatible with the character of surrounding areas, and, where feasible, to restore and enhance visual quality in visually degraded areas.

The seawall repair project will not result in any blockage of public views to Bolinas Lagoon because it is to protect a property which is already hidden from view by a solid fence from Wharf Road. Also, since the proposed repairs will not extend beyond the existing seawall, no part of the project will

protrude into lagoon waters in any way that would obstruct views along the waters' edge. The project will not require any land form alteration other than temporary excavation behind the seawall. Therefore the project is consistent with Section 30251 coastal visual resources protection requirements.

5. U.S. Army Corps of Engineers Approval.

The project requires review and approval by the U.S. Army Corps of Engineers. Pursuant to the Federal Coastal Zone Management Act, any permit issued by a federal agency for activities that affect the coastal zone must be consistent with the coastal zone management program for that state. Under agreements between the Coastal Commission and the U.S. Army Corps of Engineers, the Corps will not issue a permit until the Coastal Commission approves a federal consistency certification for the project or approves a permit. To ensure that the project ultimately approved by the Corps is the same as the project authorized herein, the Commission attaches Special Condition No. 2 which requires the permittee to submit to the Executive Director evidence of U.S. Army Corps of Engineers approval of the project prior to the commencement of work.

6. <u>California Environmental Quality Act (CEOA)</u>.

Section 13096 of the Commission's administrative regulations requires Commission approval of Coastal Development Permit applications to be supported by a finding showing the application, as modified by any conditions of approval, to be consistent with any applicable requirements of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(i) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse impact which the activity may have on the environment. As discussed above, the project has been mitigated to prevent construction debris from polluting the waters of Bolinas Lagoon. The project, as conditioned, therefore will not have a significant adverse effect on the environment within the meaning of CEOA.

EXHIBITS:

- 1. Regional Location Map
- 2. Site Location Map
- 3. Site Plan

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ATTACHMENT A

Standard Conditions

- 1. <u>Notice of Receipt and Acknowledgment</u>. The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
- 2. <u>Expiration</u>. If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
- 3. <u>Compliance</u>. All development must occur in strict compliance with the proposal as set forth in the application for permit, subject to any special conditions set forth below. Any deviation from the approved plans must be reviewed and approved by the staff and may require Commission approval.
- 4. <u>Interpretation</u>. Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.
- 5. <u>Inspections</u>. The Commission staff shall be allowed to inspect the site and the development during construction, subject to 24-hour advance notice.
- 6. <u>Assignment</u>. The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
- 7. <u>Terms and Conditions Run with the Land</u>. These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

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County of Marin

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