

**RECORD OF A TYPE II DECISION
OF THE PLANNING DEPARTMENT
FOR THE CITY OF BANDON, OREGON**



FILE NUMBER: 22-030

LOCATION: TBD Beach Loop Drive
Map Number 29S-15W-01B/TL 2000

APPLICANT: David Reed
PROPERTY OWNER: T & C Coan Living Trust

REQUEST: Approval of a request for a Geologic Assessment Review to construct a new single-family dwelling

REVIEWING BODY: Dana Nichols, Planning Manager

DEEMED COMPLETE: March 23rd, 2022

NOTICE DATE: March 24th, 2022

RECORD CLOSED: April 6th, 2022 at 5:00 PM

120 DAY DEADLINE: July 21st, 2022

APPLICABLE CRITERIA: BMC (Bandon Municipal Code) Chapters:
17.78 Hazards Overlay Zone

FINAL ORDER: **APPROVED WITH CONDITIONS**

SIGNED: This 8th day of May 2022.

Dana Nichols

Dana Nichols, Planning Manager

I. Procedural – Required Burden of Proof

The development standards of the Hazards Overlay Zone are located in Chapter 17.78 of the Zoning Code. Bandon Code language will appear in italics.

Title 17 – Chapter 17.78 – Hazards Overlay (HO) Zone

17.78.010 Purpose

The purpose of the Hazard Overlay Zone is to protect people, lands and development in areas that have been identified as being subject to geologic hazards and to apply review standards to all proposed development activity within the areas subject to geologic hazards by:

- A. *Identifying areas subject to natural hazards (Landslide, Coastal Erosion, and Liquefaction);*
- B. *Assessing the risks to life and property posed by new development in areas of known natural hazard susceptibility; and*
- C. *Applying standards to the siting and design of new development on lands subject to natural hazards that will reduce the risk to life and property from these hazards.*

Finding: The subject property is located along the oceanfront and is subject to the requirements of the Hazards Overlay Zone.

17.78.020 Applicability

The following areas are considered potentially geologically hazardous and are therefore subject to the requirements of this section:

- A. *All lands partially or completely within “high” or “very high” landslide susceptibility areas as mapped in DOGAMI Open File Report O-16-02, “Landslide susceptibility overview map of Oregon”.*
- B. *All lands partially or completely within “high” or “very high” liquefaction susceptibility as mapped in DOGAMI OPEN-FILE REPORT O-13-06, “Ground motion, ground deformation, tsunami inundation, co-seismic subsidence, and damage potential maps for the 2012 Oregon Resilience Plan for Cascadia Subduction Zone Earthquakes.”*
- C. *All lands along the oceanfront.*

Finding: The subject property is located along the oceanfront and is subject to the requirements of the Hazards Overlay Zone.

17.78.030 Geologic Assessment Review

- A. *Except for activities identified in Subsection 2 of this section as exempt, any new development or substantial improvement, as defined in Title 15, in an area subject to the provisions of this section shall require a Geologic Assessment Review.*
- B. *The following development activities are exempt from the requirement for a Geologic Assessment Review:*
 - 1. *Maintenance, repair, or alterations to existing structures that do not alter the building footprint or foundation and do not constitute substantial improvement as defined in Title 15.*
 - 2. *Exploratory excavations under the direction of a certified engineering geologist or registered geotechnical engineer;*
 - 3. *Construction of structures for which a building permit is not required;*
 - 4. *Yard area vegetation maintenance and other vegetation removal on slopes less than 25%;*
 - 5. *Maintenance and reconstruction of public and private roads, streets, parking lots, driveways, and utility lines, provided the work does not extend outside of the previously disturbed area;*

6. *Maintenance and repair of utility lines, and the installation of individual utility service connections;*
7. *Emergency response activities intended to reduce or eliminate an immediate danger to life, property, or flood or fire hazard;*
8. *Construction/erection of beachfront protective structures subject to regulation by the Oregon Parks and Recreation Department under OAR 736, Division 20; and*
9. *Any development or activity to be conducted on a site for which a certified engineering geologist has determined that there are no high or very high geologic hazards present. The City of Bandon is not liable for any type of certification that a geologic hazard is not present on site.*

Finding: The applicant is proposing to construct a new single-family dwelling on property located along the oceanfront and, thus, is subject to the requirements of this zone. The proposed work does not meet the requirements above to allow for an exemption to this chapter.

17.78.040 Geologic Report (Engineering Geologic Report and Geotechnical Engineering Report) Standards

- A. *The Geologic Report shall include the required elements of this section and one of the following:*
 1. *A statement that the use and/or activity can be accomplished without measures to mitigate or control the risk of geologic hazard to the subject property resulting from the proposed use and/or activity;*
 2. *A statement that there is an elevated risk posed to the subject property by geologic hazards that requires mitigation measures in order for the use and/or activity to be undertaken safely sited on the property; or*
 3. *A certification that there are no high or very high geological hazards present on site. If such is certified by a licensed professional, then a Geologic Hazard Review application is not required. The City of Bandon is not liable for any type of certification that a geologic hazard is not present on site.*
- B. *Geologic Reports required pursuant to this section shall be prepared consistent with standard geologic practices employing generally accepted scientific and engineering principles, and shall at a minimum contain the applicable provisions of "Guideline for Preparing Engineering Geologic Reports," 2nd Edition, 5/30/2014, published by the Oregon Board of Geologist Examiners.*
- C. *For oceanfront property, reports shall also address the "Geological Report Guidelines for New Development on Oceanfront Properties," prepared by the Oregon Coastal Management Program of the Department of Land Conservation and Development, in use as of the effective date of this section.*
- D. *Geologic Reports required by this section shall include a statement from the preparer of the report that all of the applicable content requirements of this subsection have been addressed or are not applicable to the review. The report shall also include a description of the qualification of the licensed professional or professionals that prepared the report.*
- E. *For the purposes of Section 17.78.040, a Geologic Report refers to both engineering geologic reports and geotechnical engineering reports.*

- F. Geologic Reports required by this section shall be valid for a period of five years from the date of preparation of such report. No extensions to this time line shall be granted. The city assumes no responsibility for the quality or accuracy of such reports.*

Finding: The applicant provided a Geotechnical Engineering Report prepared by Cascadia Geoservices, Inc., dated February 18th, 2022. The report states that the subject property is marginally suitable to site a residence. The property is located in a floodplain and is one foot below the Base Flood Elevation (BFE) of the 100-year floodplain. Soils are loose and saturated. The site is within the tsunami inundation area and is subject to liquefaction during a seismic event. These characteristics preclude the standard elements for mitigation, so the report recommends bored piles to support the proposed structure.

The report was prepared using accepted scientific and engineering principles and includes a Hazard Analysis Summary that utilizes these resources to ensure sound design. The property is considered oceanfront, per the interpretation of the City of Bandon, and the application contains responses to the information required as part of the *Geological Report Guidelines for New Development on Oceanfront Properties*.

The report was prepared by a registered professional engineer. This report will be valid for five years, unless otherwise stated in the report.

Staff finds that these criteria have been met.

17.78.050 Decisions of Geological Assessment Reviews

A decision on a Geologic Assessment Review shall be based on the following standards:

- A. The Geologic Report shall meet the content standards set forth in Section 17.78.040.*
- B. In approving a Geologic Assessment Review, the decision maker may impose any conditions which are necessary to ensure compliance with the provisions of this section or with any other applicable provisions of the City of Bandon Land Use and Development Code.*
- C. In the event the decision maker determines that additional review of the Geologic Report by an appropriately licensed and/or certified professional is necessary to determine compliance with this section, the City of Bandon may retain the services of such a professional for this purpose. The applicant shall be responsible for all costs associated with the additional review. The results of that evaluation shall be considered in making a decision on the Geologic Assessment Review.*

Finding: The report contains the required information from 17.78.040. Staff concurs with the conclusions of the report and will include a condition of approval that the engineer of record be located on-site during all ground disturbance and provide progress reports to the City of Bandon to ensure that development is consistent with the requirements of the report. Additional engineering is not required by the City of Bandon.

17.78.060. Development Standards for Uses Subject to Review

In addition to the conditions, requirements and limitations imposed by a required Geologic Report, all uses subject to a Geologic Assessment Review shall conform to the following requirements:

- A. *Historical, Cultural, and Archaeological Resources: All activities and uses subject to Geologic Assessment Reviews proposed for areas of historical, cultural, or archaeologically sensitive areas, as identified in the City of Bandon Comprehensive Plan, shall require consultation with the appropriate Tribe prior to the commencement of any and all ground disturbing activity. Proof of this consultation shall be provided as a part of application submission.*
- B. *Hazard Disclosure Statement: All applications for new development or substantial improvements subject to Geologic Assessment Review shall provide a Hazard Disclosure Statement signed by the property owner that acknowledges:*
 - 1. *The property is subject to potential natural hazards and that development thereon is subject to risk of damage from such hazards;*
 - 2. *The property owner has commissioned an engineering geologic report for the subject property, a copy of which is on file with City of Bandon Planning Department, and that the property owner has reviewed the Geologic Report and has thus been informed and is aware of the type and extent of hazards present and the risks associated with development on the subject property;*
 - 3. *The property owner accepts and assumes all risks of damage from natural hazards associated with the development of the subject property.*
- C. *Mitigation measures: If on-site structural mitigation measures are required as a condition of approval, the applicant shall, prior to the issuance of zoning compliance, record on the title to the subject property a notification that includes a description of the measures or improvements and that also specifies the obligation of the property owners to refrain from interfering with such measures or improvements and to maintain them.*
- D. *Safest site requirement: All new construction shall be limited to the recommendations, if any, contained in the Geologic Report; and*
 - 1. *Property owners should consider use of construction techniques that will render new buildings readily moveable in the event they need to be relocated; and*
 - 2. *Properties shall possess access of sufficient width and grade to permit new buildings to be relocated or dismantled and removed from the site.*
- E. *Minimum Oceanfront Setbacks: In areas subject to the provisions of this section, the building footprint of all new development or substantial improvement subject to a Geologic Assessment Review shall be set back from the ocean shore a minimum twenty- five (25) feet from the top of the bank or greater if recommended by the Geologic Report.*
- F. *Erosion Control Measures: A certified engineering geologist, geotechnical engineer, or qualified civil engineer shall address the following standards:*
 - 1. *Stripping of vegetation, grading, or other soil disturbance shall be done in a manner which will minimize soil erosion, stabilize the soil as quickly as practicable, and expose the smallest practical area at any one time during construction;*
 - 2. *Development plans shall minimize cut or fill operations so as to prevent off-site impacts*
 - 3. *Temporary vegetation and/or mulching shall be used to protect exposed critical areas during development;*
 - 4. *Permanent plantings and any required structural erosion control and drainage measures shall be installed as soon as practical;*

5. *Provisions shall be made to effectively accommodate increased runoff caused by altered soil and surface conditions during and after development. The rate of surface water runoff shall be structurally retarded where necessary;*
 6. *Provisions shall be made to prevent surface water from damaging the cut face of excavations or the sloping surface of fills by installation of temporary or permanent drainage across or above such areas, or by other suitable stabilization measures such as mulching, seeding, planting, or armoring with rolled erosion control products, stone, or other similar methods;*
 7. *All drainage provisions shall be designed to adequately carry existing and potential surface runoff from the twenty year frequency storm to suitable drainageways such as storm drains, natural watercourses, or drainage swales. In no case shall runoff be directed in such a way that it significantly decreases the stability of known landslides or areas identified as unstable slopes prone to earth movement, either by erosion or increase of groundwater pressure;*
 8. *Where drainage swales are used to divert surface waters, they shall be vegetated or protected as necessary to prevent offsite erosion and sediment transport;*
 9. *Erosion and sediment control devices shall be required where necessary to prevent polluting discharges from occurring. Control devices and measures which may be required include, but are not limited to:*
 - a. *Energy absorbing devices to reduce runoff water velocity;*
 - b. *Sedimentation controls such as sediment or debris basins. Any trapped materials shall be removed to an approved disposal site on an approved schedule;*
 - c. *Dispersal of water runoff from developed areas over large undisturbed areas;*
 10. *Disposed spoil material or stockpiled topsoil shall be prevented from eroding into streams or drainageways by applying mulch or other protective covering; or by location at a sufficient distance from streams or drainageways; or by other sediment reduction measures; and*
 11. *Such non-erosion pollution associated with construction such as pesticides, fertilizers, petrochemicals, solid wastes, construction chemicals, or wastewaters shall be prevented from leaving the construction site through proper handling, disposal, site monitoring and clean-up activities.*
- G. *Certification of compliance: Permitted development shall comply with the recommendations in the required Geologic Report. No development requiring a Geologic Report shall receive final approval (e.g. certificate of occupancy, final inspection, etc.) until the planning director receives a written statement by an appropriately licensed and/or certified professional indicating that all performance, mitigation, and monitoring measures contained in the report have been satisfied. If mitigation measures involve engineering solutions prepared by a licensed professional engineer, then the City of Bandon must also receive an additional written statement of compliance by the design engineer.*

Finding: The property is not located in a Historic-Cultural Overlay. The City of Bandon, per our memorandum of understanding, contacts the Coquille Indian Tribe each time there is a proposed ground disturbance. The Tribe was sent notice and found that the property may be in close proximity to known cultural resources. A Cultural Resource Monitor will be required on site during ground disturbance.

The report recommends that in order to mitigate liquefactions, the structure must be supported on bored piles. A conditions of approval will be placed on the application that this mitigating measure is recorded on their title.

Staff will include a condition of approval that the applicant sign a Hazard Disclosure Statement prior to receiving Zoning Compliance approval. The applicant will also be required to record the proposed mitigation measures on the title to the property. The conditions listed in standard (F) above, requiring specific Erosion Control Measures, will be listed as a condition of approval of this application. Staff will also require a report from the engineer of record at the conclusion of development, indicating that all measures contained in the report have been satisfied.

III. Recommendations

Based on the above analysis and the information submitted int the application, Staff approves the request for approval of a Geologic Assessment Review, with the following conditions:

1. All proposals of the applicant shall become conditions of approval unless otherwise modified by Staff.
2. Approval of the plan is based solely on the information provided. No other approvals are express or implied.
3. Prior to commencement of construction, the applicant shall be required to submit the following:
 - a. Signed Hazard Disclosure Statement
 - b. Drainage and grading plan (with the recommendations of the Report)
 - c. Erosion Control Plan meeting the requirements of 17.78.070(F)
 - d. Proof of mitigation measures recorded on title to subject property
 - e. Approval by Cascadia Geoservices, Inc. of the materials and construction methods submitted by the contractor prior to construction.
4. The building footprint of all new development or substantial improvement shall be set back from the ocean shore a minimum twenty- five (25) feet from the top of the bank.
5. All recommendations of the Geotechnical Engineering Report, prepared by Cascadia Geoservices, Inc., dated February 18th, 2022 shall be followed.
6. The engineer of record shall be located on-site to inspect development and provide a report to the City of Bandon for the following items:
 - a. Inspection and installation of tests, pile boring, and finished pile design.
 - b. Observation of excavation, stripping, fill placement, footing subgrades, and subgrades and base rock for floor slabs and pavement.
 - c. Inspection of finished building pad and pavement for conformance with drainage requirements.
7. Prior to the issuance of a Certificate of Occupancy, the applicant shall submit a Certification of Compliance from the engineer of record, per the requirements of 17.78.070(G), indicating that all measures and recommendations listed in the report have been satisfied.

EXPIRATION:

This Type II Administrative Decision expires two (2) years from the date of signature.

EFFECTIVE DATE OF DECISION:

An administrative decision becomes effective 12 days after the City mails Notice of Decision unless the decision is appealed.

APPEAL:

Appeal of this administrative decision by parties with standing, requires filing a Notice of Appeal and payment of \$250 within the 10-day appeal period, beginning from the date of mailing of this action's Notice of Decision. The Notice of Appeal shall contain:

- 1. An identification of the decision being appealed, including the date of decision;*
- 2. A statement demonstrating the person filing the Notice of Appeal has standing to appeal;*
- 3. A statement explaining the specific issues being raised on appeal; and*
- 4. If the appellant is not the applicant, a statement demonstrating that the appeal issues were raised during the comment period.*