DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS



1510 - B Third Street Tillamook, Oregon 97141 www.tillamook.or.us

Building (503) 842-3407 Planning (503) 842-3408 On-Site Sanitation (503) 842-3409 FAX (503) 842-1819 Toll Free 1 (800) 488-8280

Land of Cheese, Trees and Ocean Breeze

FLOODWAY DEVELOPMENT PERMIT #851-22-000239-PLNG: WHITAKER

NOTICE TO MORTGAGEE, LIENHOLDER, VENDOR OR SELLER: ORS 215 REQUIRES THAT IF YOU RECEIVE THIS NOTICE, IT MUST BE PROMPTLY FORWARDED TO THE PURCHASER

January 23, 2023

Dear Property Owner:

This is to confirm that the Tillamook County Department of Community Development **APPROVED WITH CONDITIONS** the above-cited requests on January 23, 2023. A copy of the application, along with a map of the request area and the applicable criteria for review are available for inspection on the Tillamook County Department of Community Development website: <u>https://www.co.tillamook.or.us/commdev/landuseapps</u> and is also available for inspection at the Department of Community Development of Community Development office located at 1510-B Third Street, Tillamook, Oregon 97141.

Appeal of this decision. This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. Forms and fees must be filed in the office of this Department before **4:00pm on February 6**, **2023.** This decision will become final on February 6, 2023 after 4:00pm unless an appeal is filed in accordance with Tillamook County Land Use Ordinance Article X.

Request:	A review of a Floodway Development Permit for an addition to an existing single-family dwelling near the Nestucca River and within the Nestucca River Floodway.
Location:	The subject property is accessed from via Brooten Road, a County road, is located at 34080 Brooten Road and is designated as Tax Lot 5703, of Section 19AC of Township 4 South, Range 10 West of the Willamette Meridian, Tillamook County, Oregon.
Zone:	Pacific City/Woods Medium Density Residential (PCW-R1) Zone
Applicant/ Property Owner:	Debbie Whitaker, 34080 Brooten Road, Cloverdale, OR 97112

CONDITIONS OF APPROVAL

- 1. The applicant/property owner shall obtain all required Federal, State, and Local permits and/or licenses and will comply with applicable rules and regulations.
- 2. All applicable permits, including a consolidated Zoning and Building Permit from the Tillamook County Department of Community Development shall be obtained prior to construction the proposed dwelling.
- 3. A minimum 50-foot riparian setback from the Nestucca River, determined by the Oregon Department of Fish and Wildlife (ODFW) and measured in accordance with TCLUO Section 4.140, shall be maintained on the subject property for the proposed improvement. Future development on the subject property shall also maintain the required riparian setback and comply with the requirements of TCLUO 4.140: Development Requirements for Water Quality and Streambank Stabilization.
- 4. The applicant/property owner shall submit a site plan drawn to scale that confirms all required setbacks are met. The site plan shall be submitted to the Department of Community Development at the time of consolidated Zoning and Building Permit application submittal.
- 5. The applicant/property owner shall obtain an approved Road Approach permit from the Tillamook County Public Works Department. Documentation confirming the Road Approach requirements have been met is required at time of Consolidated Zoning/Building permit submittal.
- 6. Development shall comply with the applicable standards of TCLUO Section 3.332, 'Pacific City/Woods Low Density Residential (PCW-R1) Zone', TCLUO Section 3.106, 'Estuary Conservation 1 (EC1) Zone' and TCLUO Section 3.545 'Shoreland Overlay'.
- 7. The applicant/property owner shall comply with all 'Zone AE' flood hazard construction standards per FEMA requirements. All construction shall adhere to the standards for residential structure in the 'AE' flood zone per TCLUO Section '3.510'. This shall be reviewed and verified by this Department during the Building Permit process.
- 8. The dwelling shall comply with all Building Code requirements for Anchoring, Construction Materials and Methods, and Utilities for residential structure located in the 'AE' and Floodway flood zones.
- 9. Owner/Applicant shall submit a 'Post-Elevation' certificate completed by a registered surveyor and provided on the current FEMA form prior to receiving Certificate of Occupancy for the dwelling.
- 10. This approval shall be void on January 23, 2025, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

Sincerely,

Tillamook County Department of Community Development

/elisso Vende

Melissa Jenck, CFM, Senior Planner 503-842-3408 x 3301 or mjenck@co.tillamook.or.us

Sarah Absher, CFM, Director

Enc.: Vicinity, Assessor's and Zoning maps

Tillamook County

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Land of Cheese, Trees and Ocean Breeze

FLOODWAY DEVELOPMENT PERMIT #851-22-000239-PLNG: WHITAKER ADMINISTRATIVE DECISION & STAFF REPORT

Decision Date: January 23, 2023

Decision: <u>APPROVED WITH CONDITIONS</u> (This is not Building or Placement Permit Approval)

Report Prepared by: Melissa Jenck, CFM, Senior Planner

I. <u>GENERAL INFORMATION:</u>

Request:	A review of a Floodway Development Permit for an addition to an existing single-family dwelling near the Nestucca River and within the Nestucca River Floodway.
Location:	The subject property is accessed from via Brooten Road, a County road, is located at 34080 Brooten Road and is designated as Tax Lot 5703, of Section 19AC of Township 4 South, Range 10 West of the Willamette Meridian, Tillamook County, Oregon.
Zone:	Pacific City/Woods Medium Density Residential (PCW-R1) Zone
Applicant/ Property Owner:	Debbie Whitaker, 34080 Brooten Road, Cloverdale, OR 97112

Proposal Description: The subject property encompasses 0.26 acres, is currently improved with a single-family dwelling, abuts the Nestucca River to the north, and is accessed via Brooten Road, a County road, to the south (Exhibit A). The topography at the location is fairly flat with a slope change as the property approaches the Nestucca River according to County LIDAR data (Exhibits A and B). The Nestucca River is zoned Estuary Conservation 1 (EC1) up to the more landward of Mean Higher High Water or the Line of Non-Aquatic Vegetation (Exhibit A). No wetlands or geologic hazards are mapped on the subject property within the proposed development (Exhibit B).

As indicated on FEMA FIRM 41057C0855F dated September 28, 2018, the subject property is located entirely in an 'AE' Area of Special Flood Hazard and entirely in the Floodway of the Nestucca River (Exhibit A). Staff finds that the proposed addition is subject to the standards and criteria of TCLUO Section 3.510, Flood Hazard Overlay' which are addressed below.

Currently, the application is a Floodplain Development Permit approval for an addition to the existing dwelling, adjacent to the Nestucca River (Exhibit B). The criteria and standards for each of these reviews are addressed below in this Staff Report.

II. APPLICABLE ORDINANCE AND COMPREHENSIVE PLAN PROVISIONS:

The desired use is governed through the following Sections of the Tillamook County Land Use Ordinance (TCLUO). The suitability of the proposed use, in light of these criteria, is discussed in Section III of this report:

- A. TCLUO Section 3.332, 'Pacific City/Woods Medium Density Residential (PCW-R1) Zone'
- B. TCLUO Section 3.106, 'Estuary Conservation 1 (EC1) Zone'
- C. TCLUO Section 3.510, 'Flood Hazard Overlay (FH) Zone'
- D. TCLUO Section 3.545, 'Shoreland Overlay'
- E. TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization'

III. <u>ANALYSIS</u>

The subject project is located within the regulatory floodway and is subject to a Type II review per TCLUO Article X: Development Approval Procedures. TCLUO Section 10.070 requires notification of Type II applications to be mailed to landowners within 250 feet of the subject properties, to allow at least 14 days for written comment and requires staff to consider comments received in making the decision.

Findings: Notice of the request was mailed to property owners and agencies on August 11, 2022. Staff finds that notification requirements have been met. Comments were received from the Tillamook County Public Works and FEMA Region X and are included as "Exhibit C". Comments were received from the Tillamook County Public Works (TCPW) detailing that Applicants submittal includes additional vehicular use on the subject property (Exhibit C). TCPW will require that any changes to the Road Approach will need reviewed by their department before commencement of construction activity (Exhibit C). Staff will require as a Condition of Approval that verification of compliance with TCPW for Road Approach standards be demonstrated at time of the Consolidated Zoning/Building permit submittal.

A. TCLUO Section 3.332, 'Pacific City/Woods Low Density Residential (PCW-R1) Zone'

PURPOSE: The purpose of the PCW-RI zone is to designate areas for low-density singlefamily residential development and other, compatible, uses. Suitability of land for low-density use sis determined by the availability of public sewer service, and such limitations to density such as geologic and flood hazards, shoreline erosion, and the aesthetic or resource values of nearby natural features.

TCLUO Section 3.332(2)(a), 'Uses Permitted Outright', lists *single-family dwelling* as a use permitted outright in the PCW-R1 zone subject to applicable supplementary regulations contained in ordinance.

Findings: Applicant is proposing an addition to an existing single-family dwelling in the Pacific City/Woods Low Density Residential (PCW-R1) zone (Exhibit B). Staff finds that the existing use and its accessory uses are allowed outright in the Pacific City/Woods Low Density Residential (PCW-R1) zone subject to applicable standards. Staff finds that Applicant will be required to demonstrate compliance with other applicable standards, such as parking, height,

and yard setback requirements, at the time of applying for consolidated zoning/building permit approval.

B. TCLUO Section 3.106, 'Estuary Conservation 1 (EC1) Zone'

The estuary boundary and zones are defined in TCLUO Section 3.100 as "ESTUARY ZONES shall be applied to all estuarine waters, intertidal areas, submerged and submersible lands and tidal wetlands up to the line of non-aquatic vegetation or the Mean Higher High Water (MHHW) line, whichever is most landward."

Findings: Applicant is proposing to construct an addition to an existing single-family dwelling (Exhibit B). A site plan was included in 'Exhibit B', which demonstrates the approximate location of the 50-ft riparian setback measured from the edge of vegetation. The site plan indicates that the proposed siting location of the dwelling is landward of the Mean Higher High water (MHHW) and the line of non-aquatic vegetation, along with maintaining more than 50-ft from the estuary boundary.

Staff finds that the proposed development is located outside the Estuary Conservation 1 (EC1) zone, as it is located landward of the estuary boundary. Staff find the Applicant will be required to demonstrate compliance with such standards for any future development on the site subject to the EC1 boundary at time of consolidated zoning/building permit approval.

C. TCLUO Section 3.510 'Flood Hazard (FH) Overlay'

(5) GENERAL STANDARDS: In all areas of special flood hazards the following standards are required:

•••

ANCHORING

(b) All new construction and substantial improvements shall be anchored to prevent flotation, collapse or lateral movement of the structure.

(c) All manufactured dwellings must likewise be anchored to prevent flotation, collapse or lateral movement, and shall be installed using methods and practices that minimize flood damage. Anchoring methods may include, but are not limited to, use of over-the-top or frame ties to ground anchors (See FEMA's "Manufactured Home Installation in Flood Hazard Areas" guidebook for techniques). A certificate signed by a registered architect or engineer which certifies that the anchoring system is in conformance with FEMA regulations shall be submitted prior to final inspection approval.

CONSTRUCTION MATERIALS AND METHODS

(d) All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.

(e) All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.

(f) Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be elevated to prevent water from entering or accumulating within the components during conditions of flooding. In Flood Zones A, A1-A30, AE, V, V1-V30 or VE, such facilities shall be elevated three feet above base flood elevation. In Flood Zone AO, such facilities shall be elevated above the highest grade adjacent to the building, a minimum of one foot above the depth number specified on the FIRM (at least two feet above the highest adjacent grade if no depth number is specified).

UTILITIES

(g) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood water into the system.

(h) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into flood waters.

(i) On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding, consistent with Oregon Department of Environmental Quality (DEQ) standards.

Findings: Applicant has provided a site plan and building plans which indicate foundation design improvements to site structure to prevent flotation and lateral movement, along with a floor plan indicating the utilization of space subject to flood waters (Exhibit B). An Elevation Certificate prepared by Douglas H. Kellow of Kellow Land Surveying dated July 6, 2022, details the location of the lowest machinery or equipment of the building, including proposed lowest floor heights (Exhibit B). Floor plans and foundation design provided confirm improvements, living space, utilities and machinery located on the next higher floor of the proposed addition (Exhibit B). Staff finds that these standards can be met through compliance with Conditions of Approval.

(6) SPECIFIC STANDARDS FOR A ZONES (A, AE or A1-A30): In all areas of special flood hazards where base flood data has been provided as set forth in Section 3.510(2) or other base flood data are utilized, the following provisions are required:

RESIDENTIAL CONSTRUCTION

(a) New construction and substantial improvement of any residential structure, including manufactured dwellings, shall have the lowest floor, including basement, at a minimum of three feet above base flood elevation.

(b) Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or must meet or exceed the following minimum criteria:

(1) A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.

(2) The bottom of all openings shall be no higher than one foot above grade.

(3) Openings may be equipped with screens, louvers, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.

Findings: The proposed area of development is located in an AE Area of Special Flood Hazard as indicated on FEMA FIRM 41057C0855F dated September 28, 2018 (Exhibit A). Applicant is proposing to develop an addition to the existing dwelling (Exhibit B).

Applicant provided a pre-construction elevation certificate prepared by Douglas H. Kellow of Kellow Land Surveying, a licensed professional surveyor, for the proposed residential development. The proposed design includes a main floor level at 22.3-feet (Exhibit B). Mr. Kellow stated Base Flood Elevation (BFE) for the subject property is 19.3-feet (Exhibit A & B). The bottom floor of the proposed addition is to be maintained as garage space and is proposed to be located at 13.1-feet NAVD 88 (Exhibit B). The next higher floor, which is indicated to maintain the proposed living space of the dwelling, is located at 22.3-feet NAVD 88, which meets the 3-feet above BFE requirement (Exhibit B). Applicant has provided foundation plans which indicate the location of multiple vents, with the Elevation Certificate confirming adequate net area of openings provided

by the vents for the enclosed bottom floor (Exhibit B). Staff finds that the proposed development complies with the standards of TCLUO 3.510(6).

(9) SPECIFIC STANDARDS FOR FLOODWAYS: Located within areas of special flood hazard established in Section 3.510(2) are areas designated as regulatory floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles, and erosion potential, the following provisions apply:

(a) Encroachments in the regulatory floodway including fill, new construction, substantial improvements and other development are prohibited unless certification is provided by a professional registered civil engineer demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that such encroachment shall not result in any increase in flood levels during the occurrence of the base flood discharge.

(b) If Subsection 8(a) is satisfied, all new construction and substantial improvement shall comply with all applicable flood hazard reduction provisions of Section 3.510(5) and (6).

(c) If hydrologic and hydraulic analysis indicates an increase in flood levels, the Applicant shall obtain a Conditional Letter of Map Revision (CLOMR) from FEMA before any encroachment, including fill, new construction, substantial improvement, or other development, in the regulatory floodway is permitted. Upon completion of the project, but no later than six months after project completion, a Letter of Map Revision (LOMR) shall be submitted to FEMA to reflect the changes on the FIRM and/or Flood Insurance Study. A LOMR is required only when the CLOMR documents an increase in flood levels during the occurrence of the base flood or where post-development conditions do not reflect what was proposed on the CLOMR.

Findings: The Applicant retained Waterways Consulting, Inc. to complete the no-rise analysis required for development within the regulatory floodway (Exhibit B). The analysis was performed for the proposed addition to an existing dwelling (Exhibit B). The analysis confirms that the proposed encroachments into the regulatory floodway will not result in any increase in flood levels (Exhibit B). Comments were received from Josha Crowley, FEMA Region X Service Center, to conclude that the proposed development as demonstrated in Waterways Consulting, Inc.'s report result in a zero rise in BFE (Exhibit C).

Staff finds that these standards have been met.

(14) DEVELOPMENT PERMIT PROCEDURES: A development permit shall be obtained before construction or development begins within any area of special flood hazard zone. The permit shall be for all structures including manufactured dwellings, and for all development including fill and other development activities, as set forth in the Definitions contained in this Section of the Land Use Ordinance.

(a) Application for a development permit shall be made on forms furnished by the Community Development Director and shall include but not necessarily be limited to: plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question, existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing. Specifically, the following information in 3.510(14)(a)(1)-(4) is required and Development Permits required under this Section are subject to the Review Criteria put forth in Section 3.510(14)(b):

(1) Elevation in relation to a specific datum of the lowest floor, including basement, of all structures as documented on an Elevation Certificate;

(2) Elevation in relation to a specific datum to which any proposed structure will be floodproofed as documented on an Elevation Certificate;

(3) If applicable, certification by a registered professional engineer or architect that the floodproofing methods for any nonresidential structure meet the floodproofing criteria in Subsection (6)(c)(3) of this Section; and

(4) Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

(b) Development Permit Review Criteria(1) The fill is not within a Coastal High Hazard Area.

Findings: Staff finds the proposed location is within a FEMA 'AE' Flood zone and is therefore not located within a Coastal High Hazard Area (Exhibit B). Staff find this criterion is met.

(2) Fill placed within the Regulatory Floodway shall not result in any increase in flood levels during the occurrence of the base flood discharge.
(3) The fill is necessary for an approved use on the property.

(4) The fill is the minimum amount necessary to achieve the approved use.

Findings: The Applicant retained Waterways Consulting, Inc. to complete the no-rise analysis required for development within the regulatory floodway (Exhibit B). The analysis confirms that the proposed encroachments into the regulatory floodway will not result in any increase in flood levels (Exhibit B). The proposed activity is for an addition to the existing dwelling on the subject property (Exhibit B). No additional fill outside the proposed structure has been designated on the application submittal (Exhibit B). Staff find these criteria are met.

(5) No feasible alternative upland locations exist on the property.

Findings: The subject property is entirely located within the FEMA 'AE' Flood zone boundary and entirely within the Floodway (Exhibit A). No upland location exists on the subject property which would remove future development from the regulatory floodplain (Exhibit B). Staff find this criterion is met.

(6) The fill does not impede or alter drainage or the flow of floodwaters.

Findings: The Applicant retained Waterways Consulting, Inc. to complete the no-rise analysis required for development within the regulatory floodway (Exhibit B). The analysis confirms that the proposed encroachments into the regulatory floodway will not result in any increase in flood levels or surface elevations anywhere in the model (Exhibit B). Staff find this criterion is met.

(7) If the proposal is for a new critical facility, no feasible alternative site is available. (8) For creation of new, and modification of, Flood Refuge Platforms, the following apply, in addition to (14)(a)(1-4) and (b)(1-5):

i. The fill is not within a floodway, wetland, riparian area or other sensitive area regulated by the Tillamook County Land Use Ordinance.

ii. The property is actively used for livestock and/or farm purposes,

iii. Maximum platform size = 10 sq ft of platform surface per acre of pasture in use, or 30 sq ft per animal, with a 10-ft wide buffer around the outside of the platform,

iv. Platform surface shall be at least 1 ft above base flood elevation, v. Slope of fill shall be no steeper than 1.5 horizontal to 1 vertical,

vi. Slope shall be constructed and/or fenced in a manner so as to prevent and avoid erosion.

Findings: The Applicant has proposed the siting of a single-family residential structure on the subject property (Exhibit B). Staff find the proposed improvement is neither a critical facility as defined in TCLUO Section 3.510(4) or a Flood Refuge Platform. Staff find these criteria are met.

Conditions of approval may require that if the fill is found to not meet criterion (5), the fill shall be removed or, where reasonable and practical, appropriate mitigation measures shall be required of the property owner. Such measures shall be verified by a certified engineer or hydrologist that the mitigation measures will not result in a net rise in floodwaters and be in coordination with applicable state, federal and local agencies, including the Oregon Department of Fish and Wildlife.

Findings: Applicant submitted the required information on forms provided by the Community Development Department and as attachments thereto (Exhibit B). The entire property is located in an AE Area of Special Flood Hazard and in the Floodway of the Nestucca River and no alternative upland location exists (Exhibits A and B). Waterways Consulting, Inc. provided a no-rise analysis certifying that the proposed addition to the dwelling will not create a rise in flood levels (Exhibit B). Staff finds that these criteria are met.

D. TCLUO Section 3.545 'Shoreland Overlay'

In the vicinity of the proposed project, the Goal 17 element of the Tillamook County Comprehensive Plan identifies all areas within 1,000 feet of estuaries and 500 feet of coastal lakes as within the Shorelands Boundary which may be subject to the provisions of TCLUO Section 3.545, 'SH Shoreland Overlay'. TCLUO Section 3.545 defines those areas within the Shorelands Boundary included within the Shoreland Overlay Zone. Relevant to the proposed development, TCLUO Section 3.545(2) identifies areas within 50 feet of estuaries as areas included in the Shorelands Overlay zone.

Findings: Staff finds that portions of the proposed addition are located within the Shorelands Boundary as identified in the Goal 17 element of the Tillamook County Comprehensive Plan. Staff have reviewed the proposed development and determined that shoreland areas on the subject property are categorized as 'Rural Shorelands' as described in TCLUO 3.545(3) and are subject to the use limitations identified in TCLUO 3.545(4)(a)(1) and the standards identified in TCLUO 3.545(6). Staff have reviewed the significant shoreland inventory contained in the Goal 17 element of the Comprehensive Plan and has verified that there are no inventoried shorelands near the subject property.

TCLUO Section 3.545(4) USES PERMITTED: Uses authorized by the underlying zone as outright or conditional uses are permitted, except at locations identified in (3) above. (a) Rural Shorelands in General:

(1) Rural Shorelands uses are limited to:

(a) Farm uses

(b) Propagation and harvesting of forest products consistent with the Oregon Forest Practices Act,

(c) Aquaculture,

- (d) Water-dependent recreational, industrial and commercial uses,
- (e) Replacement, repair or improvement of existing state park facilities,

(f) Other uses are allowed only upon a finding by the County that such uses satisfy a need which cannot be accommodated at any alternative upland location, except in the following cases:

(1) In built and committed exception shoreland areas, where all uses permitted in the underlying zone are permitted, and

Findings: Staff finds that the subject property is in a built and committed exception area and the existing residential use is allowed in the underlying Pacific City/Woods Low Density Residential (PCW-R1) zone.

TCLUO Section 3.545(6) STANDARDS: Uses within the SHORELAND OVERLAY ZONE are subject to the provisions and standards of the underlying zone and of this section. Where the standards of the SHORELANDS OVERLAY ZONE and the underlying zone conflict, the more restrictive provisions shall apply.

(a) Riparian vegetation shall be protected and retained according to the provisions outlined in Section 4.140, REQUIREMENTS FOR PROTECTION OF WATER QUALITY AND STREAMBANK STABILIZATION.

(b) Development in flood hazard areas shall meet the requirements of Section 3.510, FLOOD HAZARD OVERLAY ZONE.

Findings: The requirements of TCLUO Section 4.140 and 3.510 are addressed in the body of this Report. Staff find these standards are met.

E. TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization'

(1) The following areas of riparian vegetation are defined:

(a) Fifty (50) feet from lakes and reservoirs of one acre or more, estuaries, and the main stems of the following rivers where the river channel is more than 15 feet in width; Nestucca, Little Nestucca, Three Rivers, Tillamook, Trask, Wilson, Kilchis, Miami, Nehalem and North and South Fork Nehalem River.

For estuaries, all measurements are horizontal and perpendicular from the mean high water line or the line of non-aquatic vegetation, whichever is most landward. Setbacks for rivers, streams, and coastal lakes shall be measured horizontal and perpendicular from the ordinary high water line.

Findings: Staff finds the subject property is adjacent to Nestucca River (Exhibit B). A 50-foot riparian setback is required.

- (2) All development shall be located outside of areas listed in (1) above, unless:
 - (a) For a bridge crossing; or
 - (b) Direct water access is required in conjunction with a water dependent use; or
 - (c) Because of natural features such as topography, a narrower riparian area protects equivalent habitat values; or
 - (d) A minimal amount of riparian vegetation is present and dense development in the general vicinity significantly degrades riparian habitat values.

Setbacks may be reduced under the provisions of (c) and (d) above only if the threat of erosion will not increase and a minimum 20-foot setback is maintained. Determinations of habitat values will be made by the Oregon Department of Fish and Wildlife.

Findings: The subject property abuts the Nestucca River, which defines the riparian area as 50-feet. Applicant has provided a site plan which identifies the approximate estuary boundary along with the 50-foot setback from the Nestucca River (Exhibit B). Applicants site plan indicates that the existing dwelling along with the addition will exceed the 50-foot riparian setback Exhibit B).

Staff finds that these requirements can be met through compliance with Conditions of Approval.

V. DECISION: APPROVED WITH CONDITIONS

Based on the findings shown above, Staff concludes that the Applicant has satisfied the review criteria, and can meet all applicable ordinance requirements at the time of application. Therefore, the Department approves Floodplain Development Permit 851-22-000239-PLNG subject to the Conditions of Approval in section VI of this report.

Appeal of this decision. This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. The forms and fees must be filed in the office of this Department before **4:00 PM on February 6, 2023.**

VI. <u>CONDITIONS OF APPROVAL:</u>

- 1. The applicant/property owner shall obtain all required Federal, State, and Local permits and/or licenses and will comply with applicable rules and regulations.
- 2. All applicable permits, including a consolidated Zoning and Building Permit from the Tillamook County Department of Community Development shall be obtained prior to construction the proposed dwelling.
- 3. A minimum 50-foot riparian setback from the Nestucca River, determined by the Oregon Department of Fish and Wildlife (ODFW) and measured in accordance with TCLUO Section 4.140, shall be maintained on the subject property for the proposed improvement. Future development on the subject property shall also maintain the required riparian setback and comply with the requirements of TCLUO 4.140: Development Requirements for Water Quality and Streambank Stabilization.
- 4. The applicant/property owner shall submit a site plan drawn to scale that confirms all required setbacks are met. The site plan shall be submitted to the Department of Community Development at the time of consolidated Zoning and Building Permit application submittal.
- 5. The applicant/property owner shall obtain an approved Road Approach permit from the Tillamook County Public Works Department. Documentation confirming the Road Approach requirements have been met is required at time of Consolidated Zoning/Building permit submittal.
- 6. Development shall comply with the applicable standards of TCLUO Section 3.332, 'Pacific City/Woods Low Density Residential (PCW-R1) Zone', TCLUO Section 3.106, 'Estuary Conservation 1 (EC1) Zone' and TCLUO Section 3.545 'Shoreland Overlay'.
- 7. The applicant/property owner shall comply with all 'Zone AE' flood hazard construction standards per FEMA requirements. All construction shall adhere to the standards for residential structure in the 'AE' flood zone per TCLUO Section '3.510'. This shall be reviewed and verified by this Department during the Building Permit process.
- 8. The dwelling shall comply with all Building Code requirements for Anchoring, Construction Materials and Methods, and Utilities for residential structure located in the 'AE' and Floodway flood zones.
- 9. Owner/Applicant shall submit a 'Post-Elevation' certificate completed by a registered surveyor and provided on the current FEMA form prior to receiving Certificate of Occupancy for the dwelling.

10. This approval shall be void on January 23, 2025, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

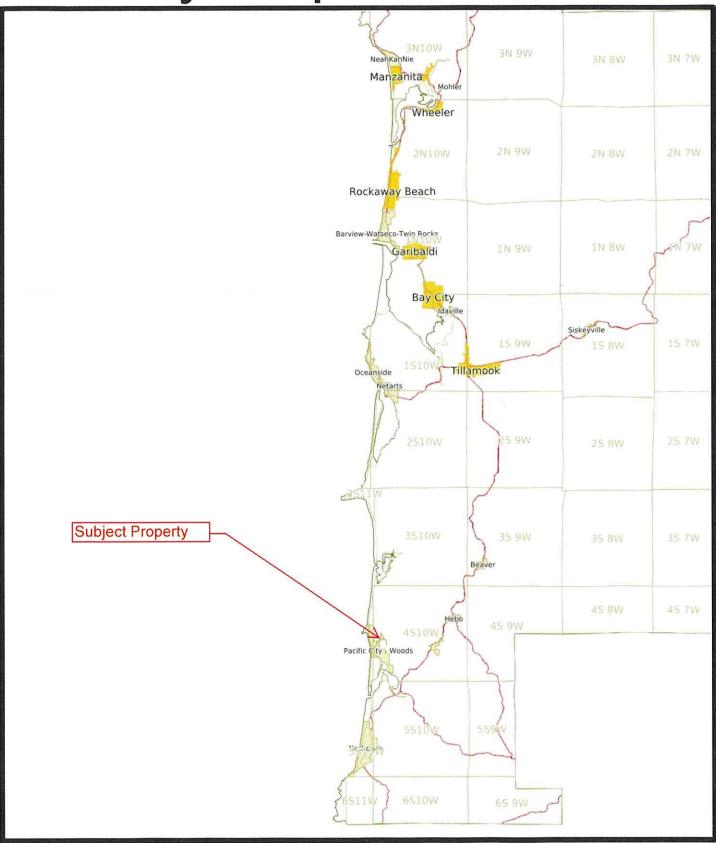
VII. <u>EXHIBITS</u>

All Exhibits referred to herein are, by this reference, made a part hereof:

- A. Location map, Assessor map, Zoning map, FEMA FIRM, NWI Wetlands map
- B. Applicant's submittal
- C. Public Comments

EXHIBIT A

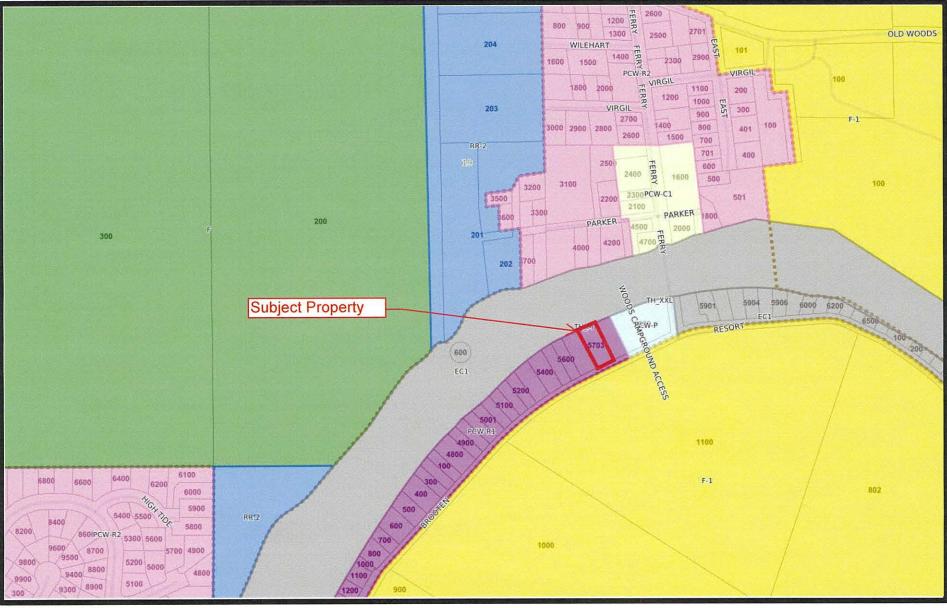
Vicinity Map



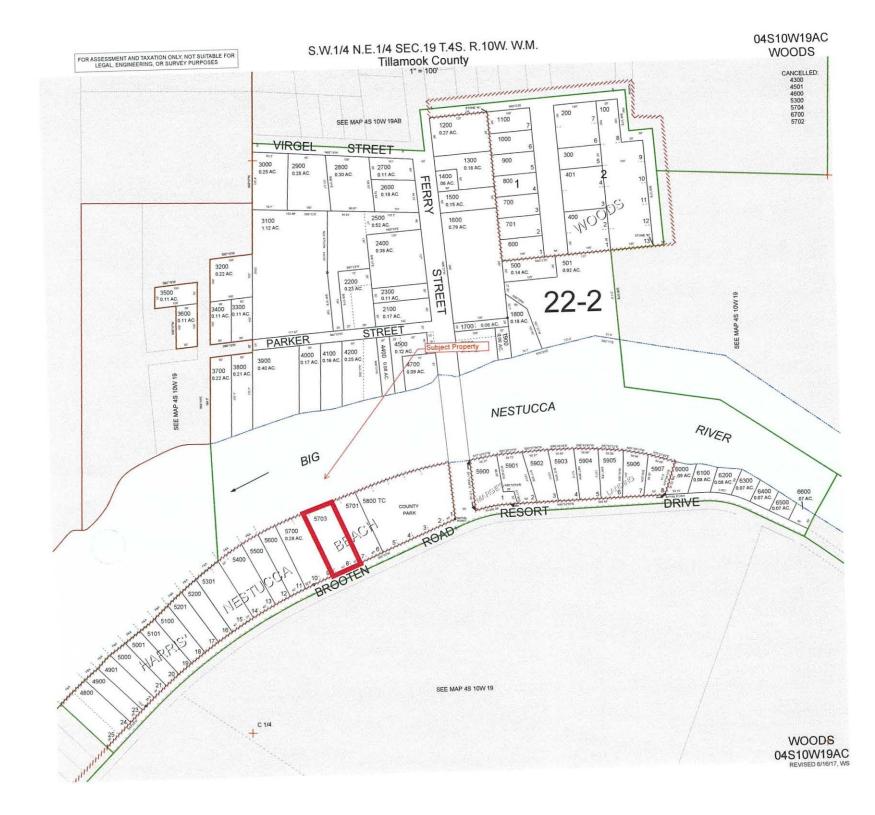
Generated with the GeoMOOSE Printing Utilities

Zoning Map

MOOSEMAPPING



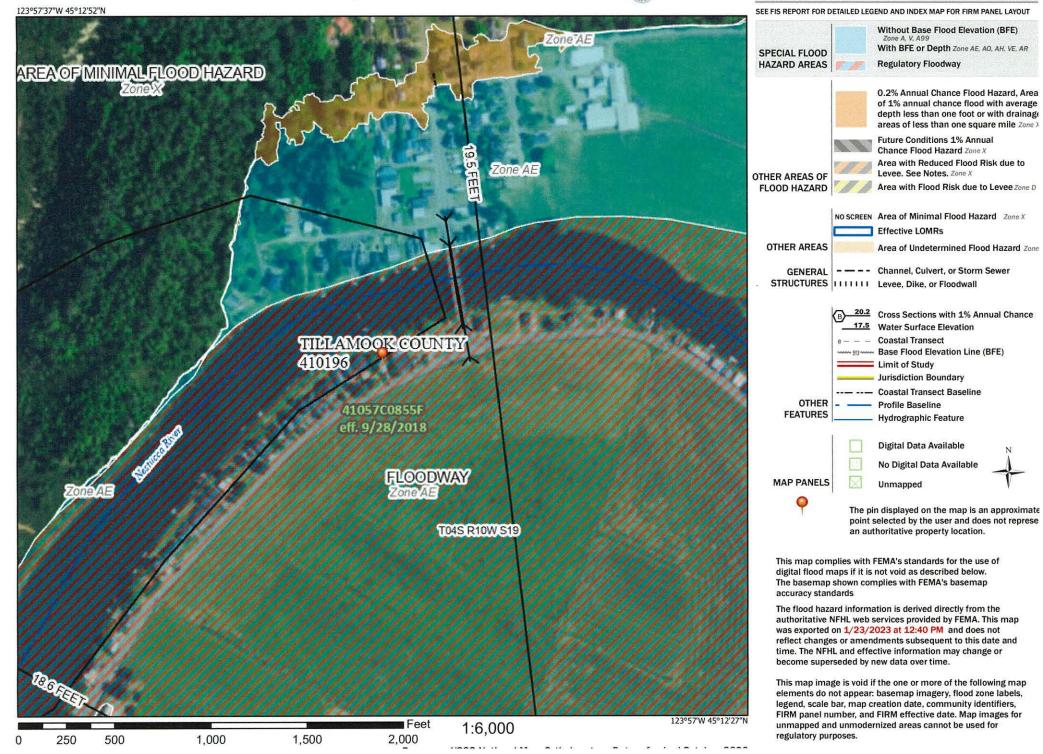
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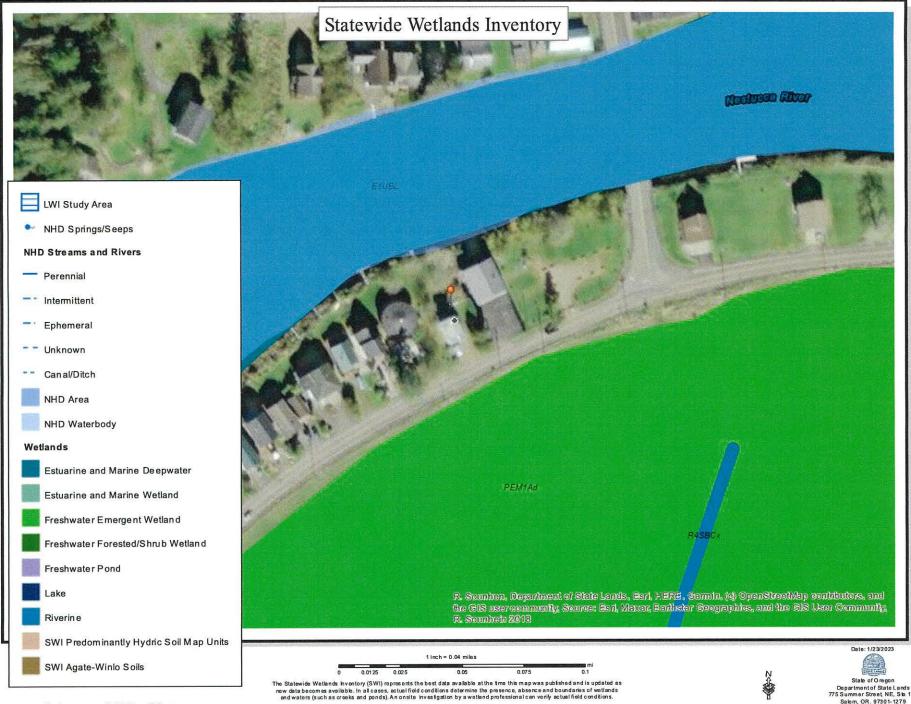


National Flood Hazard Layer FIRMette



Legend





https://www.oregon.gov/ds/WWW/Pages/SWI.aspx

State of Oregon Department of State Lands 775 Summer Street NE, Ste 100 Salem, OR. 97301-1279 (503) 986-5200

TILLAMOOK County Assessor's Summary Report

Real Property Assessment Report

FOR ASSESSMENT YEAR 2021

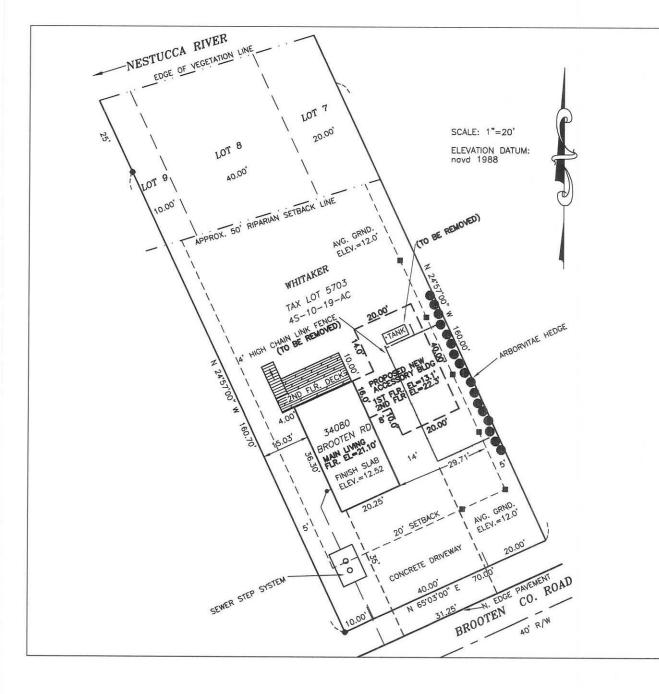
				10	IN ADDED					Jan	uary 23, 202	3 9:43:25
Account # Map # Code - Tax #	363626 4S1019 2202-3	AC05703					Tax Statu Acct State Subtype	-	ASSESS ACTIVE NORMAL	ABLE		
Legal Descr	Multiple	Lots - See	e legal repor	t for full a	description.							
Mailing Name	WHITA	KER, JAMI	ES E TRUS	TEE &			Deed Ref	erence #	# 2020- 1	320		
Agent							Sales Dat			2020 / \$0.		
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Prop Class	101	М	A SA	NH	Unit							
RMV Class	101	0	9 WF	903	17621-1							
Situs Address(Situs City						
ID# 1 34080	BROOTI	EN RD				COUNTY						
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	ipr.	303,040								npr.	Ō	
Code Area T	otal	432,310	36	51,590	361,5	90					0	
Grand To	otal	432,310	36	51,590	361,5	90					0	
					Land	Breakdown				·····	······································	
	FPD Ex	Plan Zone	Value Sou			TD%	LS	Size	Land	Class		Trende RMV
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2202			OSD - AVE	ERAGE		100						28,50
					-	Grand To	tal	0.	28			129,27
Code Area ID#	Yr Built	Stat Class	Descripti	on	Improve	ment Breakd	own	TD%	Total Sq. Ft.	Ex% MS	S Acct #	Trend RMV
2202 1	1990	146	Two story	or more	, with basem	ient		123	1,768			303,04
						Gr	and Total		1,768			303,04
			Exe	mptions	s / Special A	ssessments	/ Potential	Liability	1			
	202											
SPECIAL ASS SOLID WAS		NTS:				A	mount		12.00	Acres	0	Year 202
NOTATIONS: ■ CLERICAL	OR OTH		311.205 AI	DDED 20	003							

Comments: 1/28/03 Corrected MAV after conversion error. dv. 5/23/06-Entered Inventory/Changed Class to a 4- and Sunroom ran as 3rd floor living area-LM 1/23/09 Dry rot repairs, new siding and windows. Raised effective age and class to 4. dv 01/27/14 Reappraised land; tabled values. RBB

EXHIBIT B

Authorization This permit application does not assure permit approval. The applicant and/or property owner shall be responsible for obtaining any other necessary federal, state, and local permits. The applicant verifies that the information submitted complete, accurate, and consistent with other information submitted with this application. How when signature (Required) Date	1510-B Third Street. Tillamoo www.co.tillamook.or.us	nent of Community Development ok, OR 97141 Tel: 503-842-34	108 Fax: 503-842-1819
Name: Debic Whitak/whone: SUB 7093334 Address: 34060 Brackin Al. Email: Address: Cip: Property Owner Mam: Received Dy: Address: Cip: State: Zip: City: State: Zip: Prome: Address: City: State: Zip: Email: Enail: Permit No: Bit 23.00 Permit No: Bit 23.00 Permit No: Bit 23.00 City: State: Zip: Bit 23.00 Permit No: Bit 23.00 Permit No: Bit 23.00 City: State: Zip: Bit 23.00 Permit No: Bit 23.00 Permit No: Bit 23.00 Permit No: Bit 23.00 Permit No: Bit 23.00 Nandarn Mediling in Farm Zone Deckload Hazard Report Deckload Permit Review for Estuary Deckload Hazard Sarea Location: State Address: Map Amendment Data Amendment Data Amendment Non-farm Avelling in Farm Zone Goal Exception Deckor Permit Act Det 104 Data Of Code Text Amendment	PLANNING APPL	ICATION	
City: C. Lowidale State: OR Zip: 97/1/2 Email: Quantification Property Owner Received by: Name: Sample Address: Zip: City: State: Zip: Bit Email: Received by: Received by: Received by: Barger State: Zip: Bit Email: Permit No: Bit Address: Conditional Use Review Appeal of Director's Decision Conditional Use Review Depaied of Panning Commiss Development Permit Review (Major or Minor) Development Development Permit Review (Major or Minor) Ordinance Amendment Development Permit Review Map Amendment Non-farm dwelling in Farm Zone Goal Exception Provention: Site Address: Map Number: Action 5753 Map Number: Action 6000000000000000000000000000000000000	Name: Debbie WhitakerPhone	: 5037093334	JUN 0 9 2022
Email: Authorscractic equilitions Image: Construction of the second	City: Clourdale State:		thail "
Property Owner Receipt #: Address:			
Address: City: State: Zip: B1.21-00033 PLNG Email: Permit No: B1.21-00033 PLNG Request: OAD:11 Type II Type IV Farm/Forest Review Appeal of Director's Decision Appeal of Planning Commission Conditional Use Review Decision of Time Appeal of Planning Commission Ordinance Amendment Decision Ordinance Amendment Development Conditional Use (As deemed Decision Development Permit Review for Estuary Ordinance Amendment Plan and/or Code Text Non-farm dwelling in Farm Zone Goal Exception Amendment Plan and/or Code Text Non-farm dwelling in Farm Zone Goal Exception Immediate Immediate Steadores: Map Amendment Plan and/or Code Text Amendment Bange 45-10-19 AC 10+9 a public for 0 for 10+10+10+10+10+10+10+10+10+10+10+10+10+1			
City: State: Zip: B51.22-000234 PLNG Email: Request: Oddition State: Zip: Request: Oddition State: Zip: Difference ''ype II Type III Type III Type IV Octonational Use Review Difference Decision Decision Conditional Use Review (Major or Minor) Detailed Hazard Report Decision Ordinance Amendment Development Development Map Amendment Difference Ordinance Amendment Development Map Amendment Difference Difference Amendment Development Map Amendment Difference Difference Difference Non-farm dwelling in Farm Zone Goal Exception Difference Difference Difference Non-farm dwelling in Farm Zone State Address: Difference Difference Difference Difference Difference Map Number: Full of for State State State Internet Difference			
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Server 1			OFFICE USE ONLY	7
DEV	ELOPMENT PERMIT		Date Stamp	
Applicant D (Check B	ox if Same as Property Owner)			
	Ihitakorphone: 50370	093334		
Address: 34080	Broten road			
City: Cloverda	Le State: OR Zip:	97112	Approved Denied	
Email: dwhita	Keroaye gmail	, com	Received by:	
Property Owner	Surange States		Receipt #: Fees:	
Name: Same	Phone:		Permit No:	
Address:	State: Zip		851PLNG	
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Description of Work:	addition			
Location:	No Real of			
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Township Number: Tax	107 5703 T3-10-1 Range	9-AC lots	ection Tax Lot(s)	
Complete all applicab	la fields	Flood Insuran	ce Rate Map (FIRM) Pane	al Infr
	le fields.	FIOOU INSUIAIT	ce nace wap (i must) rand	A
Regulatory Floodway:	Estuary: Floodplain:	Tillamook County	Panel Number: 410196	6.010
Regulatory Floodway:		Tillamook County		:
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PLOT PLAN FOR JAMES & DEBORAH WHITAKER

IN LOT 8 AND A PORTION LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH"

NARRATIVE,

THE PURPOSE OF THIS SURVEY WAS TO SHOW THE LOCATION OF EXISTING HOUSE AND TO SHOW THE OTHER IMPROVEMENTS TO THE LOWER FINISH (SLAB) FLOOR ELEVATION HAS BEEN SHOWN

IN NAVD 1988 DATUM.

ALSO, I HAVE INDICATED THE APPROXIMATE "50 FOOT RIPARIAN SETBACK" ON THE RIVER SIDE OF THE SUBJECT TRACT...AND THE AVERAGE GROUND ELEVATION ON THE NORTHEAST SIDE OF THE TRACT.

ALSO: TO SHOW THE LOCATION AND PROPOSED ELEVATIONS OF THE NEW ACCESSORY BUILDING TO BE CONSTRUCTED ON THE SUBJECT PARCEL.

SURVEY & MAP BY:

KELLOW LAND SURVEYING P.O. BOX 335 PACIFIC CITY, OR 97135 503-801-3537

JULY 19, 2019 REVISED: AUG. 9. 2019 REVISED: JULY 5, 2022



Douglas H. Kellow



SET WOOD HUB & STAKE -

Melissa Jenck

From: Sent: To: Subject: debbie whitaker <dwhitaker004@gmail.com> Thursday, June 16, 2022 11:01 AM Melissa Jenck Re: EXTERNAL: Whitaker

- 1. No, fill is not within the Coastal High Hazard Area.
- 2. The hydraulics report by Waterways Consulting shows that the fill placed in the regulatory floodway will have no effect on the flood levels during the occurrence of the base flood discharge.
- 3. Yes, the fill is necessary for the approved use.
- 4. Yes, the fill is the minimum amount necessary for the approved use.
- 5. The entire property is located within the regulatory floodway, so there is no feasible alternative to this approved use location.
- 6. This fill will not impede or alter drainage flow of the floodwaters.
- 7. This is not a critical facility.
- 8. This is not a flood refuge platform.

These are the answers to these questions. I was having difficulty finding the form to fill out. Does this work?

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

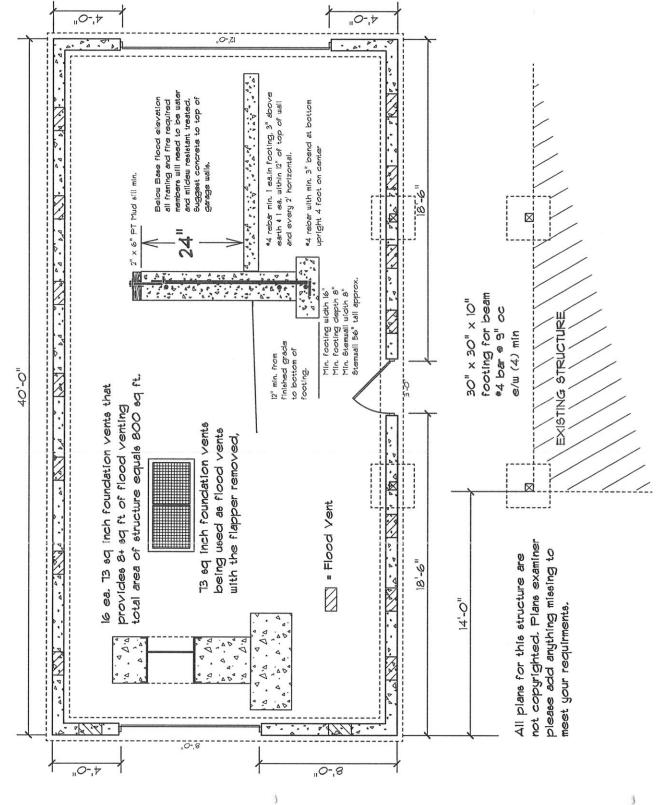
Important: Follow the instructions on pages 1-9.

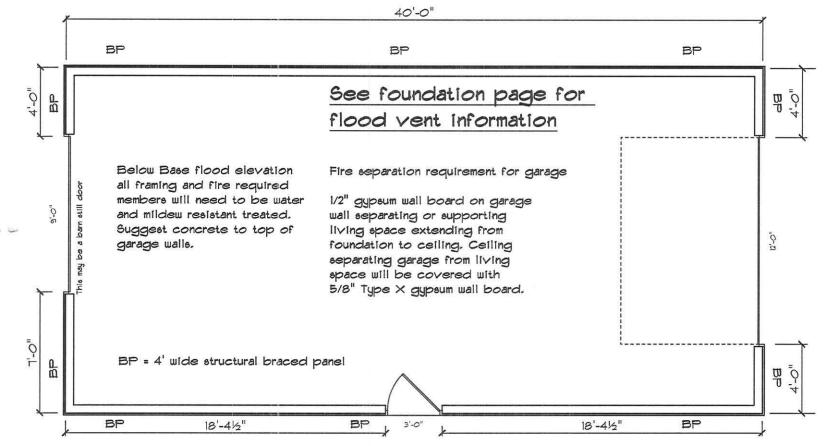
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

A1. Building Owner's Name Policy Number: JAMES AND DEBORAH WHITAKER Policy Number: A2. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. Company NAIC Number: 34080 BROOTEN ROAD City State ZIP Code PACIFIC CITY Oregon 97135 97135 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) TAX LOT 5703, 4S-10-19-AC; LOT 8 AND A PORTION OF LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH", TILLAMOOK CO., OR A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b 781 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage: sq ft a) Square footage of attached garage sq ft Sq ft Sq ft
Box No. State ZIP Code 34080 BROOTEN ROAD Oregon Image: State ZIP Code PACIFIC CITY Oregon Image: State State State A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) TAX LOT 5703, 4S-10-19-AC; LOT 8 AND A PORTION OF LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH", TILLAMOOK CO., OR A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: Image: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. NAT NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. AT. Building Diagram Number 1A Image: State S
City State ZIP Code PACIFIC CITY Oregon 97135 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) TAX LOT 5703, 4S-10-19-AC; LOT 8 AND A PORTION OF LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH", TILLAMOOK CO., OR A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: □ NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1A A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b
PACIFIC CITY Oregon ● 97135 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) TAX LOT 5703, 4S-10-19-AC; LOT 8 AND A PORTION OF LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH", TILLAMOOK CO., OR A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1A • A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b 781 sq in d) Engineered flood openings? Yes No
TAX LOT 5703, 4S-10-19-AC; LOT 8 AND A PORTION OF LOTS 7 AND 9, "HARRIS' NESTUCCA BEACH", TILLAMOOK CO., OR A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ACCESSORY A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: □ NAD 1927 ⊠ NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1A ▼ A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b 781 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage sq ft
A5. Latitude/Longitude: Lat. 45.21100 Long. 123.95500 Horizontal Datum: NAD 1927 X NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1A ✓ A8. For a building with a crawlspace or enclosure(s): 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1A A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) 722 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b 781 sq in d) Engineered flood openings? Yes A9. For a building with an attached garage: a) Square footage of attached garage
 A7. Building Diagram Number <u>1A</u> A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) <u>722</u> sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>11</u> c) Total net area of flood openings in A8.b <u>781</u> sq in d) Engineered flood openings? □ Yes ⊠ No A9. For a building with an attached garage: a) Square footage of attached garage sq ft
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s)
 a) Square footage of crawlspace or enclosure(s) <u>722</u> sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>11</u> c) Total net area of flood openings in A8.b <u>781</u> sq in d) Engineered flood openings? <u>Yes</u> ⊠ No A9. For a building with an attached garage: a) Square footage of attached garage <u>sq ft</u>
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 11 c) Total net area of flood openings in A8.b 781 sq in d) Engineered flood openings? Yes X No A9. For a building with an attached garage: a) Square footage of attached garage sq ft
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 d) Engineered flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage sq ft
A9. For a building with an attached garage: a) Square footage of attached garage sq ft
a) Square footage of attached garage sq ft
, , , , , , , , , , , , , , , , , , , ,
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
c) Total net area of flood openings in A9.b sq in
d) Engineered flood openings?
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION
B1. NFIP Community Name & Community Number B2. County Name B3. State
TILLAMOOK COUNTY 410196 TILLAMOOK Oregon
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date Date B7. FIRM Panel Effective/ Revised Date B8. Flood B9. Base Flood Elevation(s) (Zone A0, use Base Flood Depth)
41057C0855 F 09/28/2018 09/28/2018 AE 19.3
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No Designation Date: CBRS OPA

ELEVATION CERTIFICATE					lo. 1660-(ion Date:	0008 November 30, 2022
IMPORTANT: In these spaces, copy the corresponding	information from	m Sect	ion A.	FORI	NSURAN	CE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or	Bldg. No.) or P.C). Route	e and Box No.	Policy	Number:	
34080 BROOTEN ROAD						
City Stat		ZIPC		Comp	any NAIC	Number
	ZOCH -		135	L		
⁷ SECTION C – BUILDING ELE	EVATION INFO	RMATI	ON (SURVEY R	EQUIRI	ED)	
C1. Building elevations are based on: X Construction *A new Elevation Certificate will be required when co	onstruction of the	building	š .			shed Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a–h below according to the build	ling diagram spe	cified in	Item A7. In Puer	/AE, AR to Rico (/A1–A30, only, ente	AR/AH, AR/AO. r meters.
Benchmark Utilized: <u>TILL.CO.SURVEY PC#8</u>			NAVD 1988			
Indicate elevation datum used for the elevations in its		i) below	<i>.</i>			
☐ NGVD 1929 ☑ NAVD 1988 ☐ Other/S Datum used for building elevations must be the same	and the second	r the BF	E			
building clevel to building clevel to is must be the same	5 43 1141 4364 10		-	Ch	eck the m	easurement used.
a) Top of bottom floor (including basement, crawlsp	ace, or enclosure	e floor)		13.1	🔀 feet	meters
b) Top of the next higher floor				22.3	🔀 feet	meters
c) Bottom of the lowest horizontal structural membe	r (V Zones only)				🗌 feet	meters
d) Attached garage (top of slab)					🗌 feet	meters
 e) Lowest elevation of machinery or equipment serv (Describe type of equipment and location in Com 	ricing the building ments)	3		22.3	🔀 feet	meters
f) Lowest adjacent (finished) grade next to building	(LAG)			12.3	🔀 feet	meters
g) Highest adjacent (finished) grade next to building	(HAG)			12.5	🔀 feet	meters
 h) Lowest adjacent grade at lowest elevation of dec structural support 		ling		12.3	🔀 feet	meters
SECTION D - SURVEYOR,	ENGINEER, OF	R ARC	HITECT CERTIF	ICATIO	N	
This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un	veyor, engineer, mv best efforts t	or arch	itect authorized b	v law to	certify ele	evation information. I that any false
Were latitude and longitude in Section A provided by a lic	ensed land surve	eyor?	Yes No		Check he	ere if attachments.
Certifier's Name	License Numbe		007	1		
DOUGLAS H. KELLOW	OREGON PLS	NU. 20	027	_(STERED
PROFESSIONAL LAND SURVEYOR				1		ESSIONAL SURVEYOR
Company Name						the stress
KELLOW LAND SURVEYING Address			• • • • • • • • • • • • • • • • • • •		1	4 Killow
P.O. BOX 335					Febr	EGON uary 3, 1983
City	State		ZIP Code	- D(S. H. KELLOW
PACIFIC CITY	Oregon	Company of the local division of the local d	97135		Renev	<u>2027</u> val: 06/30/23
Signature Douglo II Killow	Date 07/06/2022		Telephone 503-801-3537	Ext.		
Copy all pages of this Elevation Certificate and all attachme		unity offi	cial. (2) insurance	agent/c	ompany, a	nd (3) building owner
Comments (including type of equipment and location, per				-9		
C2e.) THE WATER HEATER WILL BE LOCATED ON THE ELEVATION OF 22.3 FEET (MINIMUM) ABOVE MSL NA	HE UPPER FLOO		THE ACCESSOR	Y STRU	JCTURE	AT AN



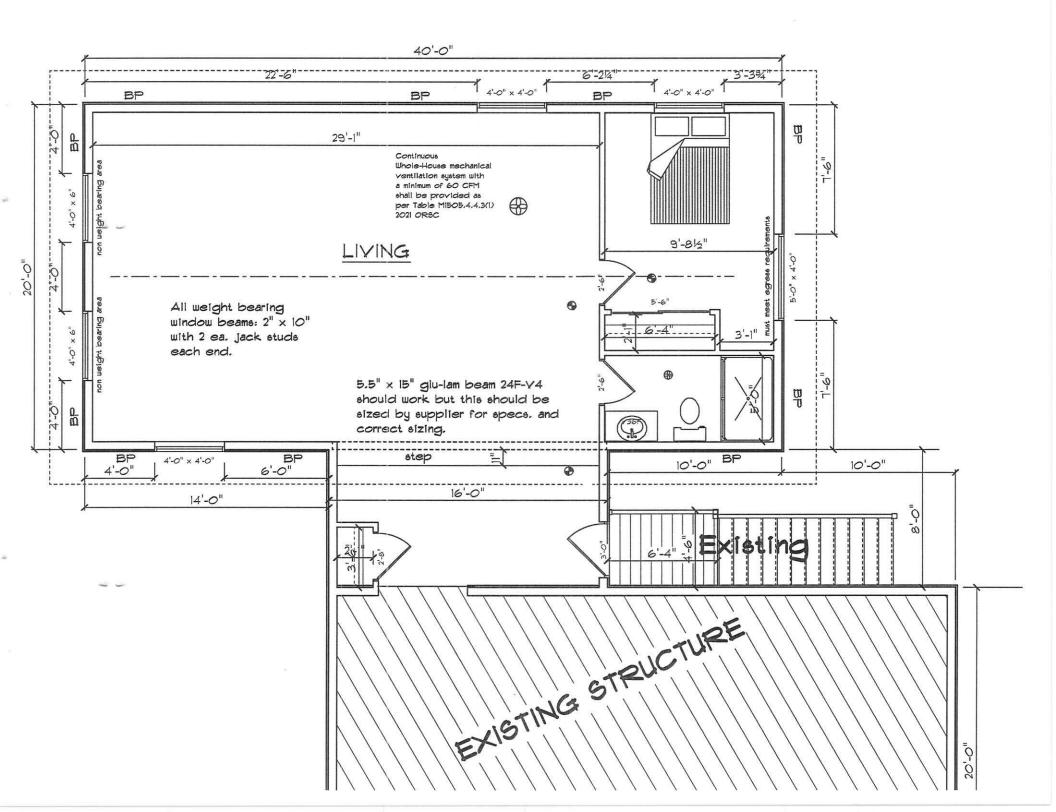


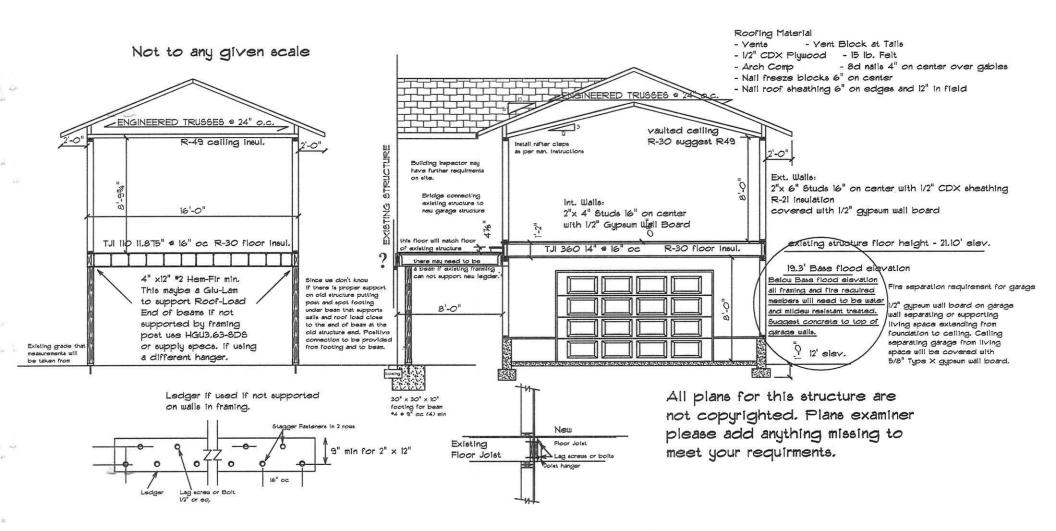


All plans for this structure are not copyrighted. Plans examiner please add anything missing to meet your requirments.

المينة الحيمة

-





Snoke Detector/Carbon Monoide alarma - wired in with battery backup - and interconnected as per 2021 ORBC Sections R314, R315 and Table MI505.5

Exhaust fan - Internitient - nax. 3 sone - rooms with bathing facilities 80 cfm - toilet only rooms with out natural ventilation 50 cfm - kitchen 150 cfm

ORSC 2021 Section MISO5 and Table MISO5.5

Fire separation requirement for garage

1/2" gypsum wall board on garage wall separating or supporting living space extending from foundation to celling. Celling separating garage from living space will be covered with 5/8" Type X gypsum wall board. Door from garage to living space will be 20 minute fire rating. Taken from ORSC 2021 Section R315 - CARBON MONOXIDE ALARMS

R315.2 Where required. Carbon Monoxide alarms shall be provided in accordance with Sections R315.2.1. and R315.2.2 R315.2.1 New construction. For new construction, carbon monoxide alarms shall be provided in dwelling units. R315.2.2 Existing dwellings. Where a new carbon monoxide source is introduce or work requiring a structural permit occurs in existing dwellings, carbon monoxide alarms shall be provided in accordance with this section. Exception: Work involving the exterior surfaces of dwellings, such as the replacement of footing or siding, the addition or replacement of windows or doors, of the addition of a porch or deck, are exempt form the requirements of this section. R315.3 Location. Carbon monoxide alarms shall be located in each elseping room or within 15 feet outside of each elseping room door. Siesping rooms on separate floor levels in a structure consisting of two or more stories shall have separate carbon monoxide alarms excing each story. Where a fuel-burning appliance is located within a sleeping room or its attached bathroom, a carbon monoxide alarm shall be installed within the sleeping room.

315.4 Combination alarms. Combinations carbon monoxide and smoke alarms shall be permitted to be used in lieu of carbon monoxide alarms. R315.5 Interconnectivity. Where more than one carbon monoxide alarm is required to be installed within an individual dwelling unit in accordance with Section 315.3, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual dwelling unit. Physical inter connection of carbon monoxide alarms shall not be required where listed where listed were alarms are installed and all alarms bound upon activation of one alarm. Exception: interconnection of carbon monoxide alarms in existing areas shall not be required where alterations or repairs do not result in removal of interior wall or celling finishes exposing the structure. R315.6 Power source. Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and with out a disconnection switch other than those required for over current protection.

at per chapter II 2021 ORSC Table NIIOI.(1) page 450 Flat celling R-48 Vaulted celling R=30 Walls R-21 Floor R-30

Ductless heat pump. HSPF 10.0 in primary zone of building.

Whole-House mechanical ventilation system with a minimum of 60 CFM

shall be provided as per Table MI505.4.4.3(1) 2021 OR5C

2"x 6" PT Mud eeli

1/2"× 10" anchor bolta 4' on center 4 within 1' from each joint, 4 conser with 3"× 3"× 3/16"

hot-dipped galvanized plate washers

footing width 16" min.

footing depth 8" min.

Stemual wight 8" min.

*4 rebar vertical ever 4 feet on center

not nore than 24" on center.

One #4 rebar horizontal in footing

stemuali one within 12" of top of wall.

and one min. 44 rebar horizontal

Foundation

Not to any given scale

34080 BROOTEN ROAD ADDITION HYDRAULIC ANALYSIS REPORT

Hydraulics Analysis Report



prepared for Debbie Whitaker

prepared by Jake Hofeld, P.E.



April 05, 2022



2022.04.05 15:03:25 -07'00'

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Contents

INTRODUC	TION 2	1000
HYDRAULIC	C MODELING METHODOLOGY 2	
	Existing Conditions Model	
	Proposed Conditions Model3 Boundary Conditions	
	Peak Flow Hydrology4	
RESULTS		85
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Figure 1: Tax Lot Location Map

Figure 2: FEMA FIRM Panel

Figure 3: Property Survey

Figure 4: Proposed Addition Site Plans and Elevations

Figure 5: Hydraulic Analysis Overview Map of Proposed Project

List of Attachments

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Attachment A – HEC-RAS Model Output Files

509A Swift St, Santa Cruz, CA 95060, Ph: 831-421-9291 // 1020 SW Taylor St., Suite 380 Portland, OR 97205, Ph: 503-227-5979



INTRODUCTION

Waterways Consulting Inc. (Waterways) has been retained by Debbie Whitaker to evaluate the hydraulic effects on the Nestucca River during a 100-year base flood discharge from a proposed addition to an existing residential structure. The project is located on the east (left) bank floodplain of the Nestucca River at 34080 Brooten Road in Pacific City, Oregon (Figure 1). The existing property currently includes a building with an approximate 730 square foot footprint with an attached second story deck. The proposed addition will include an 800 square foot footprint structure immediately to the north of the existing structure connected. The new and existing structures will be connected by an enclosed "bridge" structure between the second story finished floors. This section will also include an exterior stairway that leads to the ground level. The entire property is located within the FEMA designated floodway, effective September 28, 2018 (Figure 2).

The following report has been prepared to support floodplain development permitting with Tillamook County for the proposed project and presents our hydraulic analysis of existing and proposed conditions for the 100-year flood event along the Nestucca River within the vicinity of the proposed residential structure addition. This report is based on the guidance outlined in Section 3.510(9)(a) of the Tillamook County Land Use Ordinance which requires, "...certification is provided by a professional registered civil engineer demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that such encroachment shall not result in any increase in flood levels during the occurrence of the based flood discharge."

HYDRAULIC MODELING METHODOLOGY

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) has mapped Nestucca River at the project area as a Special Flood Hazard Area (SFHA) within the regulatory floodway Zone AE (Figure 2). Tillamook County provided Waterways with a hydraulic model of the Nestucca River covering the project area for a Letter of Map Revision (LOMR), effective September 24, 2015 (Case. Number 14-10-1727P). The LOMR and corresponding hydraulic model conducted in the United States Army Corps of Engineers (USACE) Hydraulic Engineering Center River Analysis Software (HEC-RAS) by West Consultants updated the previous modeling and FIRM Panels dated August 1, 1978. All elevations are referenced to a NAVD 88 vertical datum. This model was used as the basis for all hydraulic modeling.

Waterways updated the hydraulic analysis using HEC-RAS, version 6.0.0. A one-dimensional hydraulic model was completed to characterize the existing and proposed conditions at the project site during the 100-year recurrence interval peak flow at the Nestucca River. Additional cross sections were added to the provided model in the vicinity of the project area. The two modeling scenarios include the Existing Conditions Model ("Ex. Cond." is the Plan identifier in the model) and the Proposed Conditions Model ("Prop. Cond." is the Plan identifier in the model). Figure 3 shows the proposed project location, cross section locations used in the hydraulic analysis, and the effective FEMA floodplain and floodway boundaries (FEMA 2018).



Existing Conditions Model

Additional cross sections added to the LOMR model were sampled from a terrain surface derived from LiDAR data from the Department of Geology and Mineral Industries (DOGAMI) North Coast collected by Watershed Sciences Inc. in 2009. LiDAR was updated and overlain with existing topographic survey data for the project parcel. The existing topographic survey was provided by Kellow Land Surveying, dated August 9, 2019 (Figure 3). Bathymetry for the additional cross sections were interpolated from upstream and downstream cross sections of the LOMR model.

The downstream model boundary extends approximately 1.1 miles downstream of the project area and the upstream model boundary extends approximately 2.7 miles upstream of the project area (Figure 5). The bridge crossing geometry at Ferry Street and at Pacific Avenue downstream of the project area were included in the model from drawings provided by Oregon Department of Transportation (ODOT) and Tillamook County. Hydraulic roughness values for the additional cross sections were based on values published in the provided model. Hydraulic roughness values, known as Manning's Roughness, for the additional cross sections are outlined in Table 1.

Land Use Type	Manning's 'n'
Channel	0.031
Open Pervious Areas (grassed)	0.04
Residential Area	0.08
Open Pervious Areas (trees)	0.10

Table 1. Mannina's Rouahness for Different Land Use Types

Proposed Conditions Model

The proposed conditions model included the additional cross sections created in the existing conditions model. The existing conditions terrain was updated with the proposed residential structure footprint of 40 feet by 20 feet provided by design drawings supplied from the client (Figure 4). The proposed residential structure was modeled as a blocked obstruction at cross sections located at the upstream and downstream sides of the proposed structure. The location of the proposed structure is approximate due to the surveyed property boundaries being in an arbitrary horizontal datum but is considered accurate enough for the purposes of this analysis. The proposed conditions model did not update the existing topography of the site.

Boundary Conditions

The downstream boundary condition used in the two models was set to a known water surface elevation of 14.15 feet (NAVD 88) per the provided model. The downstream boundary condition is located downstream of FEMA Cross Section A near where Nestucca River meets the Nestucca Bay.



Peak Flow Hydrology

According to the FEMA FIS report and the provided model, the 100-year peak flow event for this portion of the Nestucca River is 49,700 cubic feet per second (cfs). Therefore, 49,700 cfs was assumed for the 100-year peak flow (i.e. base flood discharge) in all models.

RESULTS

Results of the hydraulic modeling are presented in Attachment A. These results show that the proposed structure will not result in a rise to the water surface elevations at any cross sections in the model. No change between the Existing Conditions Model and Proposed Conditions Model can likely be attributed to the relatively small building footprints as compared to a much larger/wider floodplain area.

CONCLUSIONS

The results of this hydraulic analysis indicate no rise in the 100-year water surface elevations for the Proposed Conditions Model when compared to the Existing Conditions Model. Based on this, the proposed project satisfies the requirement of Section 3.510(9)(a) of the Tillamook County Land Use Ordinance.



REFERENCES

- Federal Emergency Management Agency. 2018. Flood Insurance Rate Maps (FIRMs) for Tillamook County (panel 0855), Oregon and Incorporated Areas. September 28, 2018.
- Federal Emergency Management Agency. 2018. Flood Insurance Study (FIS) for Tillamook County, Oregon and Incorporated Areas. September 8, 2018.
- U.S. Army Corps of Engineers. Hydrologic Engineering Center. Computer Program HEC-RAS Version 6.0.0 Davis, California. March 2019.
- U.S. Army Corps of Engineers. Hydrologic Engineering Center. Hydraulic Reference Manual. Version 5.0 Davis, California. February 2016.
- Watershed Sciences. LiDAR Remote Sensing Data Collection Oregon North Coast. Prepared for Department of Geology and Mineral Industries (DOGAMI). December 21, 2009.
- West Consultants. Hydraulic Engineering Center River Analysis Software (HEC-RAS) Model of the Nestucca River. 2014.



FIGURES

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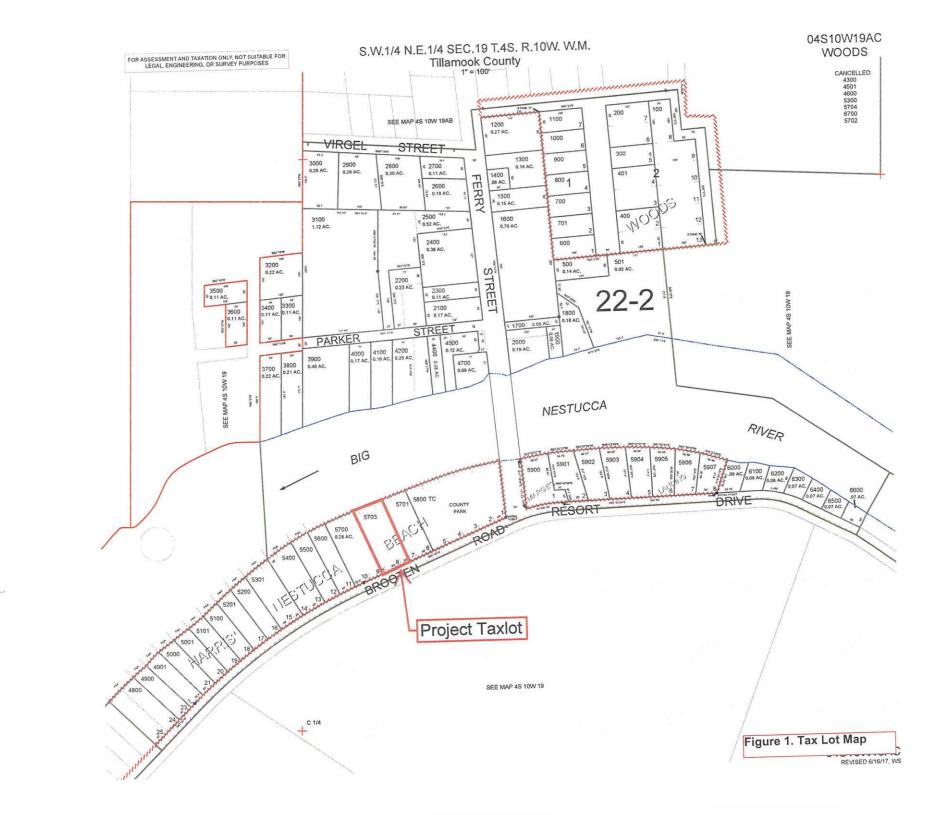
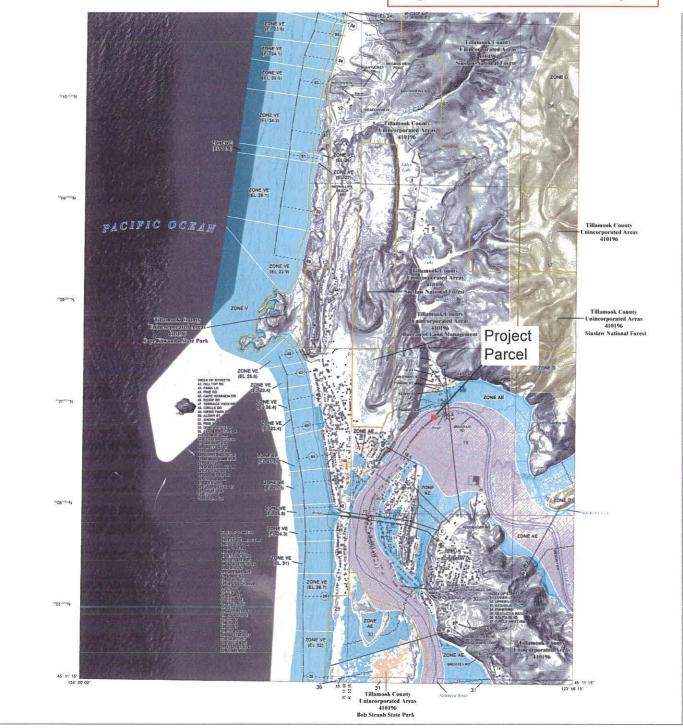


Figure 2. FEMA Map



FLOOD HAZARD INFORMATION

		in orthorn of the	11011010
THE INFOR	MATION DEPIC TATION ARE AL	GEND AND INDEX MAP FOR FIRM PANEL LAYOUT ITED ON THIS MAP AND SUPPORTING SO AVAILABLE IN DIGITAL FORMAT AT (MSC.FEMA.GOV	For information and buestion beliable versions of the 7/194 please care the rEEMA Map in Derivate. Generic versions at the of Map Change, a Physic Fran- can be entimed at classed at F-Hst panel by varing tha F-1
	+9.18	Without Base Flood Elevation (BFE) Zone A.V. 409	Communities are even jand the current F&M index. The
	100	With BFE or Depth Jone 4E, A3, AH, VE, 49	For community and country
SPECIAL FLOOD HAZARD AREAS	1927	Regulatory Floodway	To determine if Soud mauran Proof Insurance Program at
	885593	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Febre Conditions 1% Annual Chance Flood Hazard Area V	The lupsgraphic base wap 5 2007 and 2011. Otherphote for perforts of Tillamock
OTHER AREAS OF	(EP)	Area with Reduced Flood Risk due to Lovee See Notes. Jone 1	
FLOOD HAZARD	VID	Area with Flood Risk due to Levee	
	NO SCREEN	Area of Minimal Flood Hazard	
OTHER	0.5	Area of Undetermined Flood Hazard	
GENERAL		Channel, Cuivert, or Storm Sever	
STRUCTURES	al certain statistics	Levee, Dike, or Floodwall	

NOTES TO USERS

int copy of the l Into 5 available e for bia F RS reveals a derived from botic fabr autways confected between logistry actured in 2009 was used where fider coverage was unevenidate - Charry

SCALE rswine Mexator Zone LOs, North Antonewi Datum 1983 Hohera, Verbaal Datum: NAVD 88 Ñ 1 inch = 1,000 feet 1:12,000 1,000 2,000 PANEL LOCATOR 0715 0720

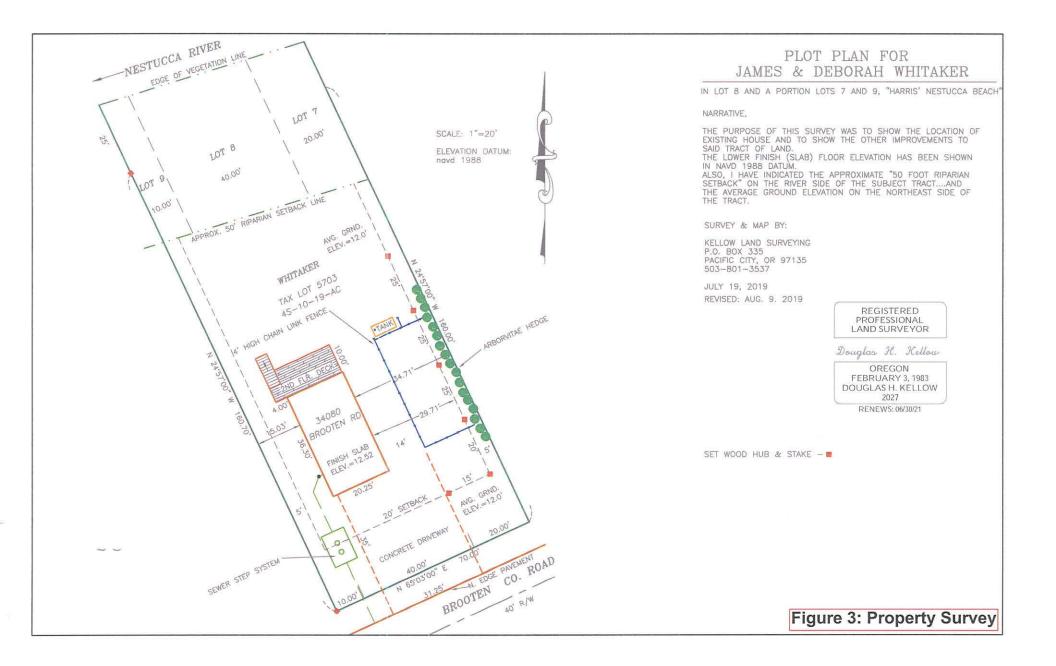
TILLAMOOK COUNTY, OREGON PANEL 855 of 1075



NATIONAL FLOOD INSURANCE PROGRAM

National Flood Insurance Program

FEMA

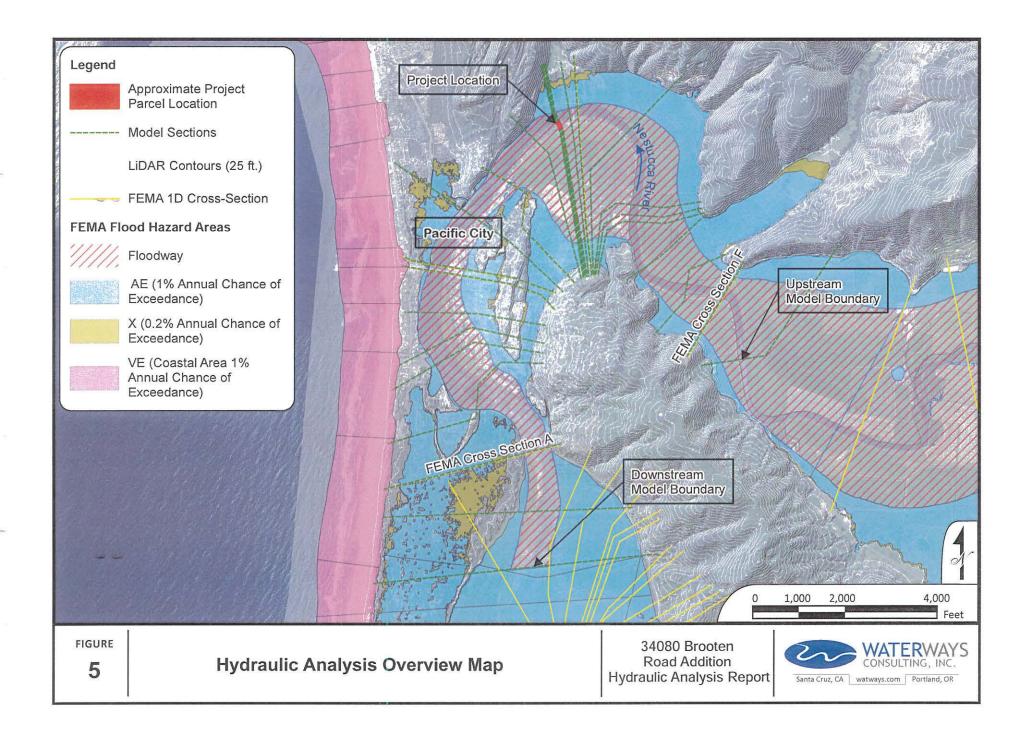




1		40'-0"		
	BP	BP	BP	
		See foundation page for flood vent information		<u>v</u>
9'-0" This may be a barn still door	Below Base flood elevation all framing and fire required members will need to be water and mildew resistant treated. Suggest concrete to top of garage walls.	Fire separation requirement for garage 1/2" gypsum wall board on garage wall separating or supporting living space extending from foundation to ceiling. Ceiling separating garage from living space will be covered with 5/8" Type X gypsum wall board.		12-0-
<u>n</u>	BP = 4' wide structural braced	panel		W U
	BP 18'-4½"	BP 3'-0" k 18'	4½" BP	

Figure 4b. Proposed Addition Site Plan

40'-0"





Attachment A

HEC-RAS Output Files

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Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Lower	22553.94	100-YR	Ex Cond	49700.00	-5.99	20.50	12.22	20.55	0.000090	3.06	32251.77	3644.73	0.1
Lower	22553.94	100-YR	Prop Cond	49700.00	-5.99	20.50	12.22	20.55	0.000090	3.06	32252.63	3644.74	0.1
Lower	21008.6	100-YR	Ex Cond	49700.00	-8.92	20.09		20.31	0.000259	5.18	17868.70	1743.78	0.20
Lower	21008.6	100-YR	Prop Cond	49700.00	-8.92	20.09		20.31	0.000259	5.18	17869.28	1743.78	0.20
Lower	20157.05	100-YR	Ex Cond	49700.00	-9.15	19.95	12.36	20.10	0.000212	4.43	20018.16	2302.31	0.1
Lower	20157.05	100-YR	Prop Cond	49700.00	-9.15	19.95	12.36	20.10	0.000212	4.43	20018.80	2302.31	0.1
Lower	19079.89	100-YR	Ex Cond	49700.00	-11.85	19.71		19.89	0.000228	5.02	20299.33	1888.76	0.18
Lower	19079.89	100-YR	Prop Cond	49700.00	-11.85	19.71		19.89	0.000228	5.02	20300.02	1888.76	0.18
Lower	18019.8	100-YR	Ex Cond	49700.00	-7.69	19.54	11.35	19.68	0.000186	4.31	22194.66	2668.28	0.10
Lower	18019.8	100-YR	Prop Cond	49700.00	-7.69	19.54	11.35	19.68	0.000186	4.31	22195.45	2668.28	0.16
Lower	17875.97	100-YR	Ex Cond	49700.00	-7.60	19.53	11.05	19.65	0.000168	4.13	23069.31	2677.07	0.16
Lower	17875.97	100-YR	Prop Cond	49700.00	-7.60	19.53	11.05	19.65	0.000168	4.13	23070.13	2677.07	0.16
Lower	17653.2	100-YR	Ex Cond	49700.00	-4.67	19.54	11.28	19.61	0.000095	3.21	29287.64	3181.66	0.1:
Lower	17653.2	100-YR	Prop Cond	49700.00	-4.67	19.54	11.28	19.61	0.000095	3.21	29288.66	3181.66	0.12
Lower	15949.74	100-YR	Ex Cond	49700.00	-7.67	19.50	9.86	19.52	0.000032	1.90	46756.41	4377.65	0.07
Lower	15949.74	100-YR	Prop Cond	49700.00	-7.67	19.50	9.86	19.52	0.000032	1.90	46757.94	4377.65	0.07
Lower	14728.64	100-YR	Ex Cond	49700.00	-9.90	19.44	10.23	19.48	0.000043	2.46	37338.25	3855.81	0.0
Lower	14728.64	100-YR	Prop Cond	49700.00	-9.90	19.44	10.23	19.48	0.000043	2.46	37339.61	3855.82	0.09
Lower	14621.23			Bridge									
Lower	14544.91	100-YR	Ex Cond	49700.00	-8.62	19.42	10.32	19.46	0.000045	2.54	36922.60	3871.15	0.10
Lower	14544.91	100-YR	Prop Cond	49700.00	-8.62	19.42	10.32	19.47	0.000045	2.54	36923.95	3871.15	0.10
Lower	14278	100-YR	Ex Cond	49700.00	-8.55	19.41	10.38	19.45	0.000049	2.57	36885.62	3893.93	0.10
Lower	14278	100-YR	Prop Cond	49700.00	-8.55	19.41	10.38	19.45	0.000049	2.58	36581.84	3853.91	0.10
Lower	14255	100-YR	Ex Cond	49700.00	-8.54	19.41	10.35	19.45	0.000047	2.52	36698.96	3834.06	0.10
Lower	14255	100-YR	Prop Cond	49700.00	-8.54	19.41	10.35	19.45	0.000047	2.52	36698.96	3834.06	0.1
Lower	14226	100-YR	Ex Cond	49700.00	-8.53	19.41	10.29	19.45	0.000046	2.47	37040.01	3820.99	0.10
Lower	14226	100-YR	Prop Cond	49700.00	-8.53	19.41	10.29	19.45	0.000046	2.47	37040.01	3820.99	0.10

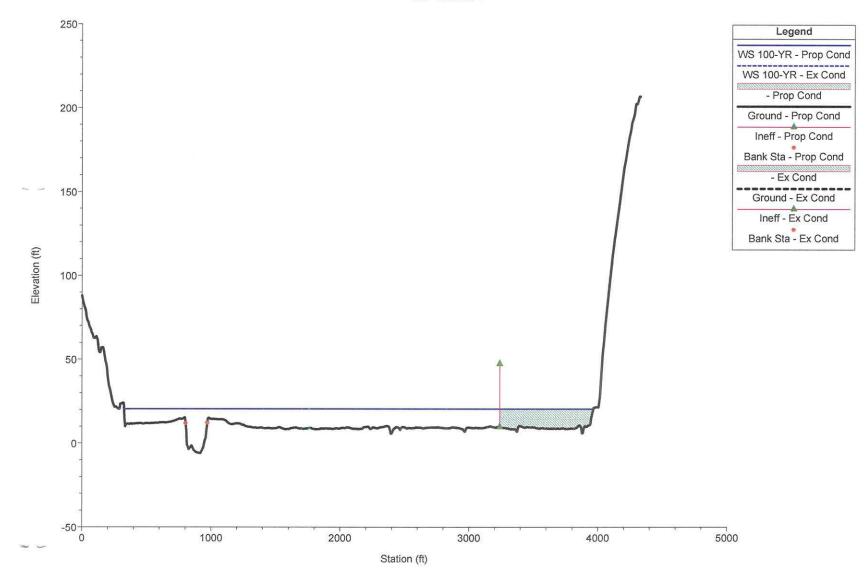
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
5. <u></u>			See States	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Lower	14210	100-YR	Ex Cond	49700.00	-8.53	19.41	10.29	19.45	0.000046	2.45	37057.29	3902.26	0.1
Lower	14210	100-YR	Prop Cond	49700.00	-8.53	19.41	10.29	19.45	0.000046	2.45	37057.29	3902.26	0.1
Lower	13541.26	100-YR	Ex Cond	49700.00	-7.81	19.37	10.21	19.41	0.000052	2.50	32776.04	3280.36	0.1
Lower	13541.26	100-YR	Prop Cond	49700.00	-7.81	19.37	10.21	19.41	0.000052	2.50	32776.04	3280.36	0.1
Lower	12396	100-YR	Ex Cond	49700.00	-3.59	18.50		19.22	0.000463	7.06	9092.69	2049.83	0.3
Lower	12396 .	100-YR	Prop Cond	49700.00	-3.59	18.50		19.22	0.000463	7.06	9092.69	2049.83	0.3
Lower	11367.2	100-YR	Ex Cond	49700.00	-3.05	17.73	9.51	18.65	0.000621	7.83	7532.11	2017.15	0.3
Lower	11367.2	100-YR	Prop Cond	49700.00	-3.05	17.73	9.51	18.65	0.000621	7.83	7532.11	2017.15	0.3
Lower	10048.77	100-YR	ExCond	40700.00	2.40	16.07	0.19	17.04	0.000610	7 5 2	9674 57	2062.48	0.2
Lower Lower	10048.77	100-YR	Ex Cond Prop Cond	49700.00 49700.00	-3.49 -3.49	16.97 16.97	9.18 9.18	17.81 17.81	0.000619	7.53 7.53	8674.57 8674.57	2062.18 2062.18	0.3
Lower	9942.323			Bridge									
Lower	9904.361	100-YR	Ex Cond	49700.00	-8.44	16.82	8.05	17.51	0.000542	6.93	10023.92	2094.07	0.3
Lower	9904.361	100-YR	Prop Cond	49700.00	-8.44	16.82	8.05	17.51	0.000542	6.93	10023.92	2094.07	0.3
Lower	8988.11	100-YR	Ex Cond	49700.00	-4.80	16.61	8.14	16.97	0.000329	5.36	12949.13	1986.55	0.2
Lower	8988.11	100-YR	Prop Cond	49700.00	-4.80	16.61	8.14	16.97	0.000329	5.36	12949.13	1986.55	0.2
Lower	8192.259	100-YR	Ex Cond	49700.00	-18.19	16.35	6.30	16.72	0.000308	5.47	12921.58	2041.81	0.2
Lower	8192.259	100-YR	Prop Cond	49700.00	-18.19	16.35	6.30	16.72	0.000308	5.47	12921.58	2041.81	0.2
Lower	7839.108	100-YR	Ex Cond	49700.00	-6.96	16.25	6.76	16.61	0.000310	5.16	12464.76	1879.15	0.2
Lower	7839.108	100-YR	Prop Cond	49700.00	-6.96	16.25	6.76	16.61	0.000310	5.16	12464.76	1879.15	0.2
Lower	6628.945	100-YR	Ex Cond	49700.00	-1.36	16.04	6.84	16.27	0.000208	3.91	14212.35	3171.30	0.1
Lower	6628.945	100-YR	Prop Cond	49700.00	-1.36	16.04	6.84	16.27	0.000208	3.91	14212.35	3171.30	0.1
Lower	4746.314	100-YR	Ex Cond	49700.00	-11.72	14.76	7.45	15.56	0.000672	7.30	7417.23	2442.34	0.3
Lower	4746.314	100-YR	Prop Cond	49700.00	-11.72	14.76	7.45	15.56	0.000672	7.30	7417.23	2442.34	0.3
Lower	3370.732	100-YR	Ex Cond	49700.00	-3.40	14.28	6.63	14.73	0.000430	5.53	9803.55	3594.57	0.2
Lower	3370.732	100-YR	Prop Cond	49700.00	-3.40	14.28	6.63	14.73	0.000430	5.53	9803.55	3594.57	0.2
Lower	2099.855	100-YR	Ex Cond	49700.00	-3.90	14.15	5.85	14.31	0.000175	3.42	17693.71	5262.50	0.1
Lower	2099.855	100-YR	Prop Cond	49700.00	-3.90	14.15	5.85	14.31	0.000175	3.42	17693.71	5262.50	0.1

HEC-RAS River: Nestucca River Reach: Lower Profile: 100-YR (Continued)

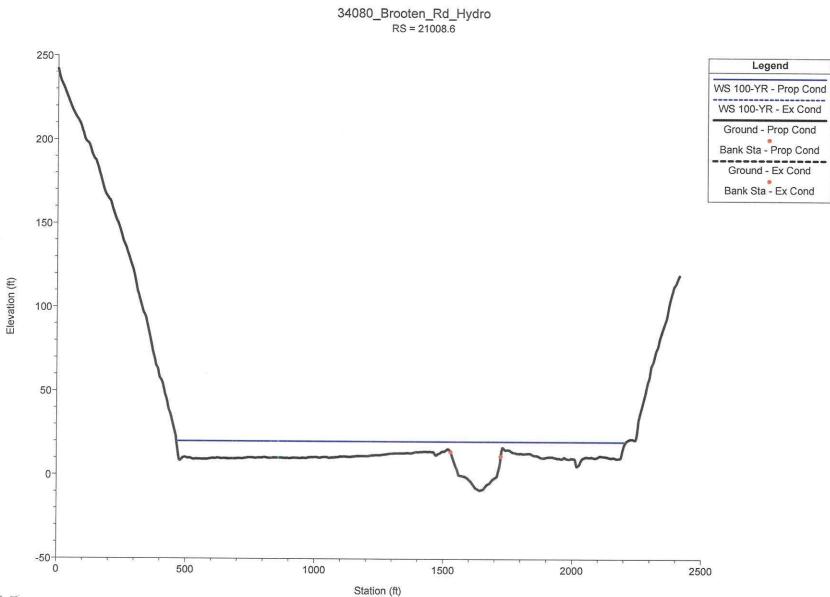
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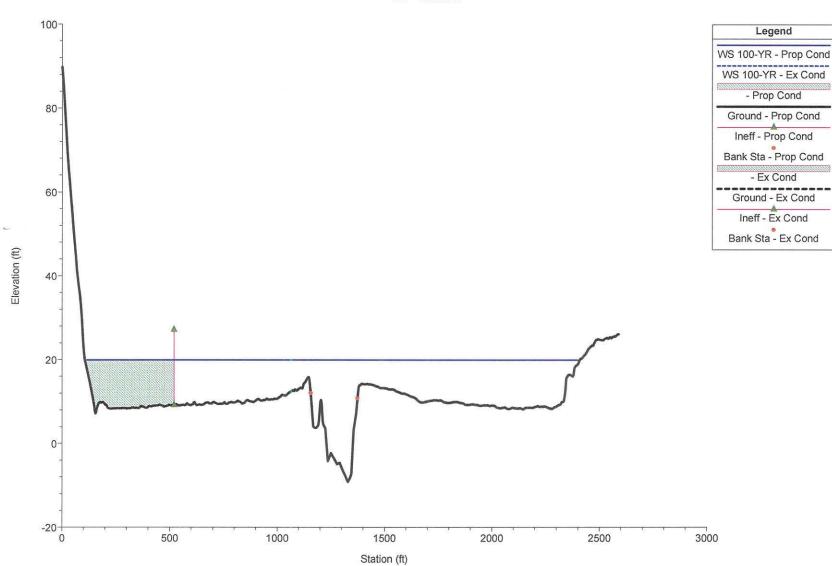
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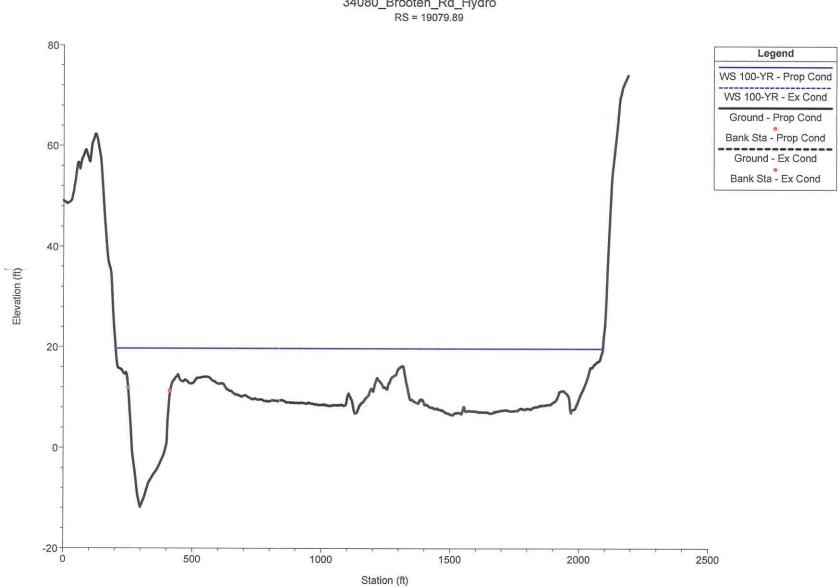




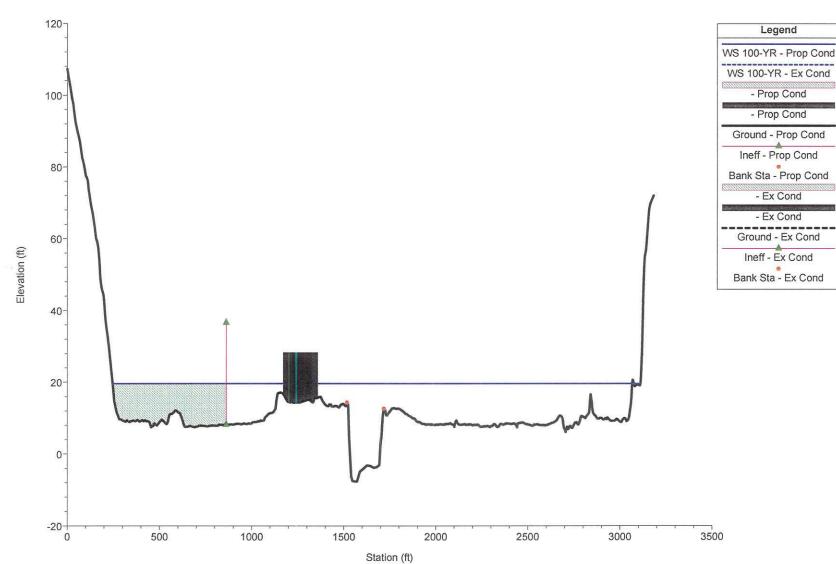
34080_Brooten_Rd_Hydro RS = 20157.05

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34080_Brooten_Rd_Hydro RS = 19079.89

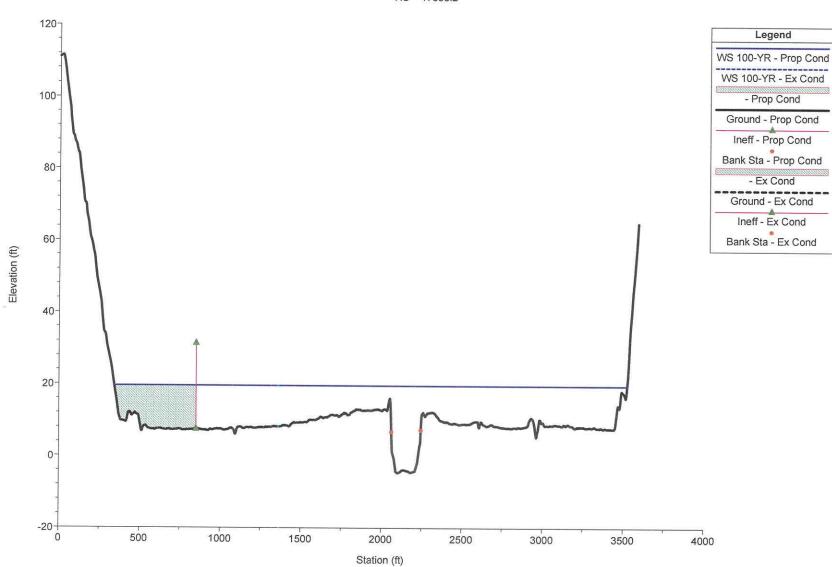


34080_Brooten_Rd_Hydro RS = 18019.8

120-Legend WS 100-YR - Prop Cond WS 100-YR - Ex Cond - Prop Cond 100 - Prop Cond Ground - Prop Cond Ineff - Prop Cond 80-Bank Sta - Prop Cond - Ex Cond - Ex Cond Ground - Ex Cond 60-Ineff - Ex Cond Elevation (ft) Bank Sta - Ex Cond 40-20-0--20| 0 3500 500 1000 1500 2000 2500 3000

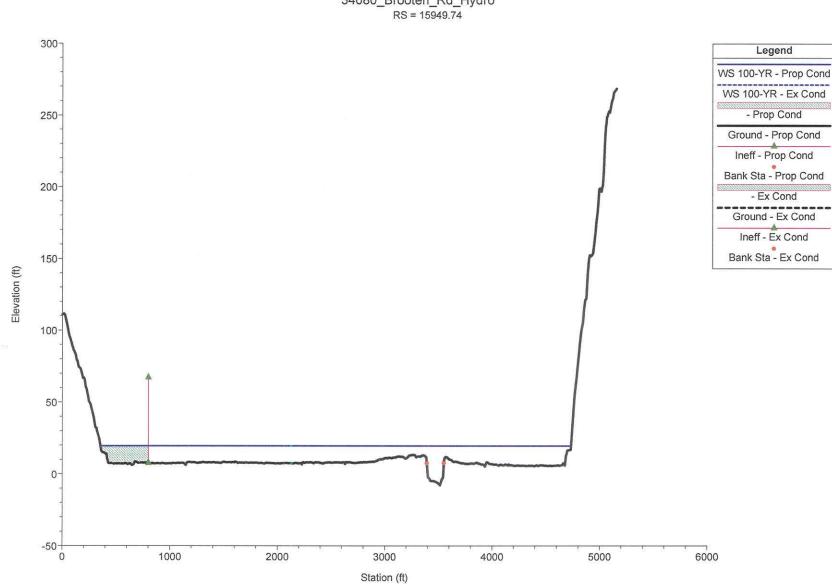
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Station (ft)

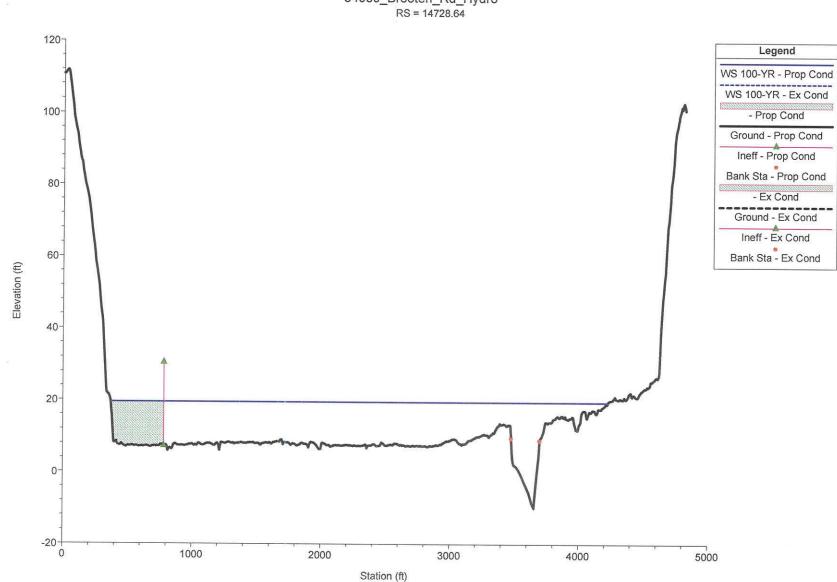


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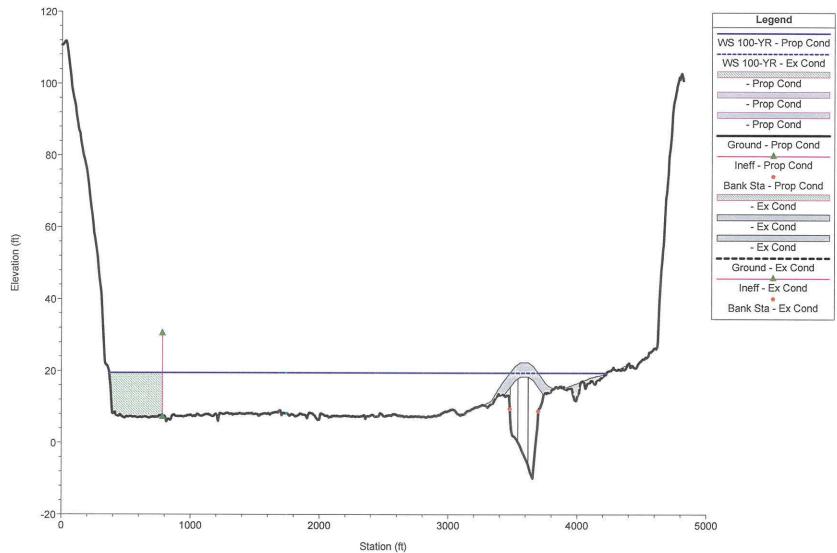


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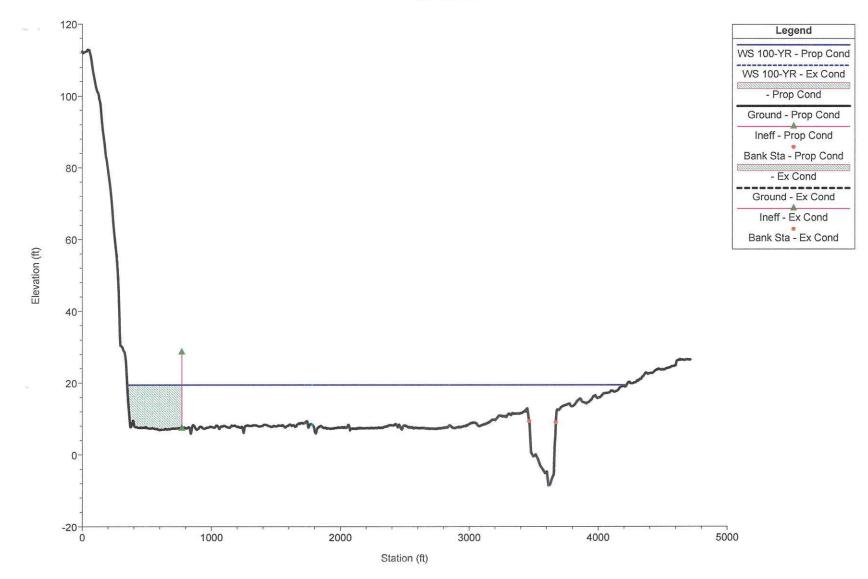


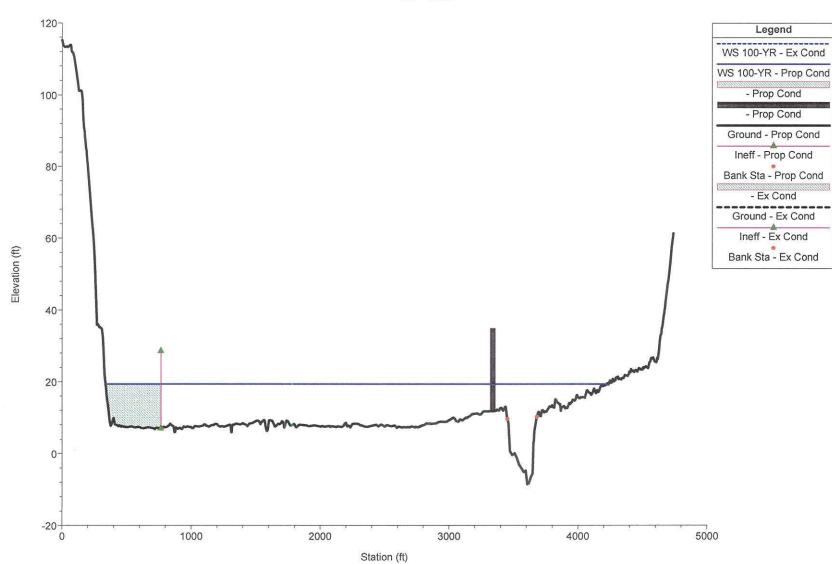
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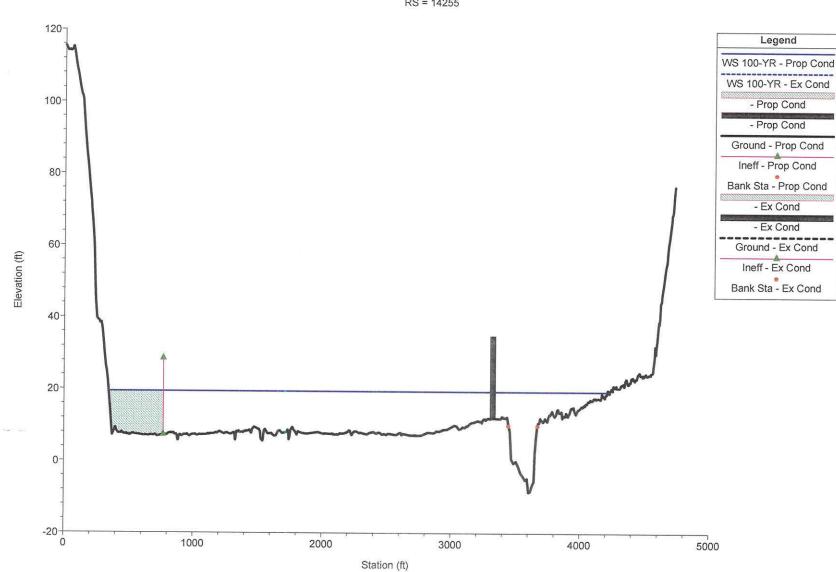
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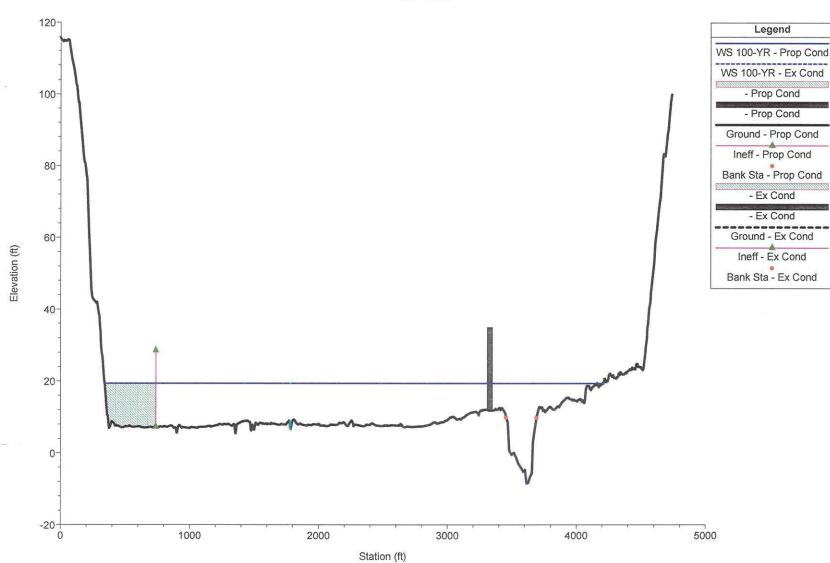


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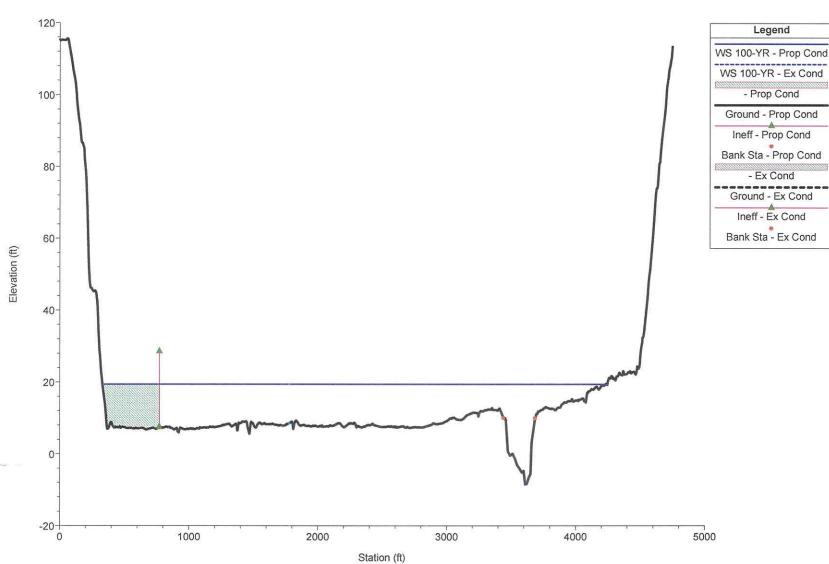




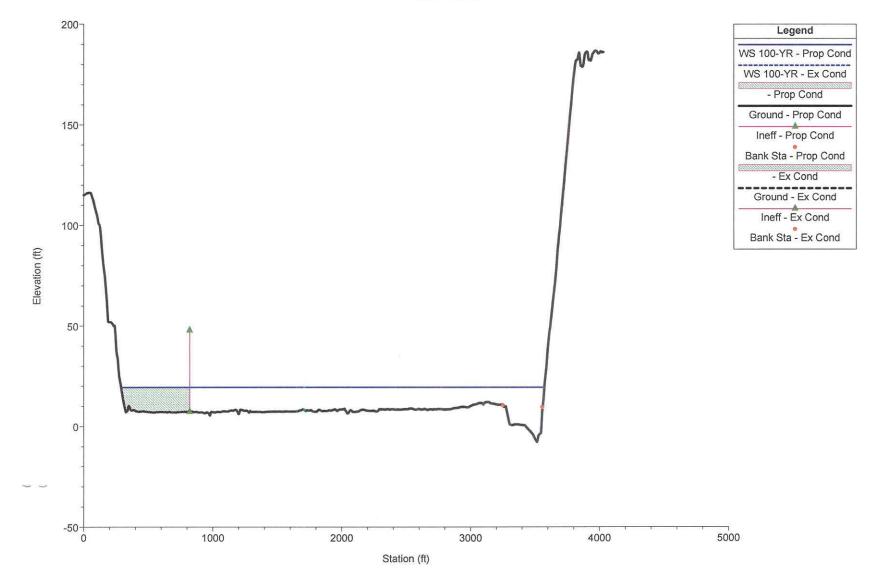


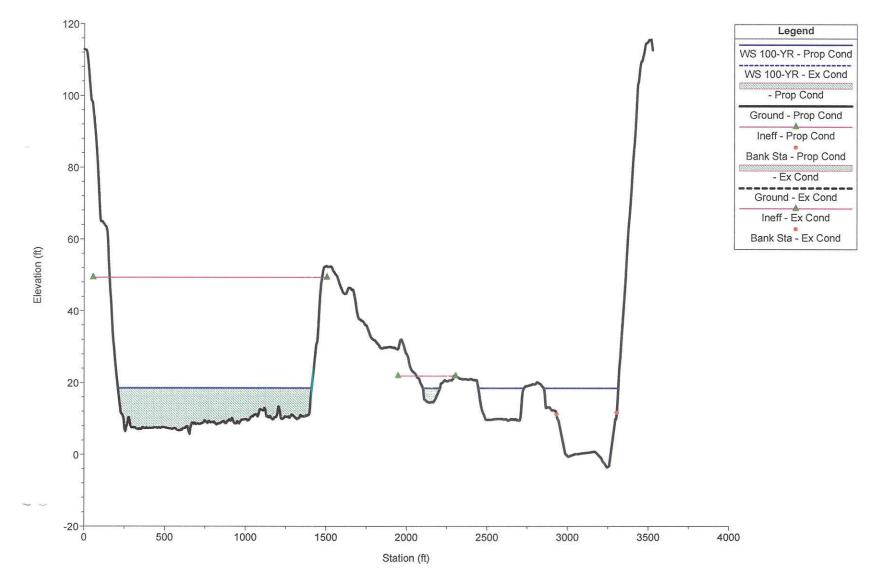


34080_Brooten_Rd_Hydro RS = 14226



34080_Brooten_Rd_Hydro RS = 13541.26





ר100 Legend WS 100-YR - Prop Cond WS 100-YR - Ex Cond - Prop Cond 80 Ground - Prop Cond Ineff - Prop Cond Bank Sta - Prop Cond - Ex Cond Ground - Ex Cond 60-Ineff - Ex Cond Bank Sta - Ex Cond Elevation (ft) 40-20-0--20+ 0 1000 2000 3000 4000 5000 Station (ft)

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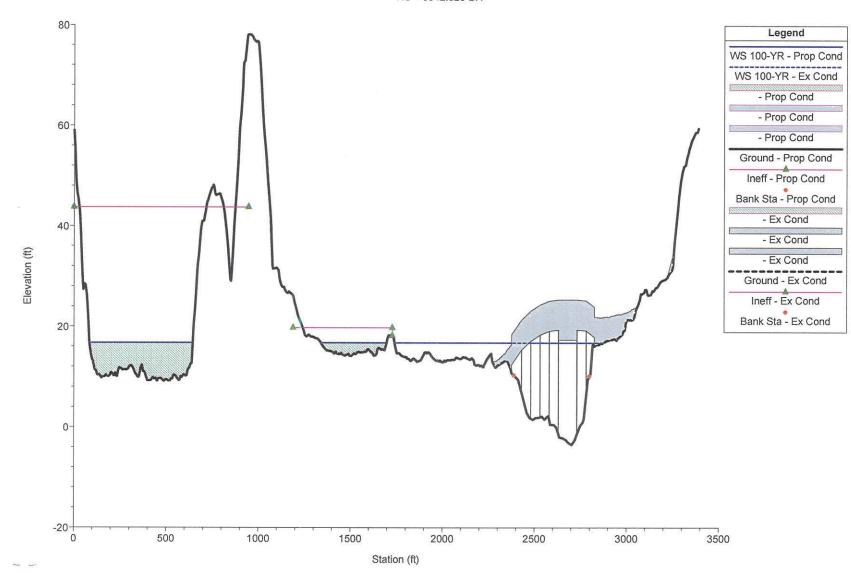
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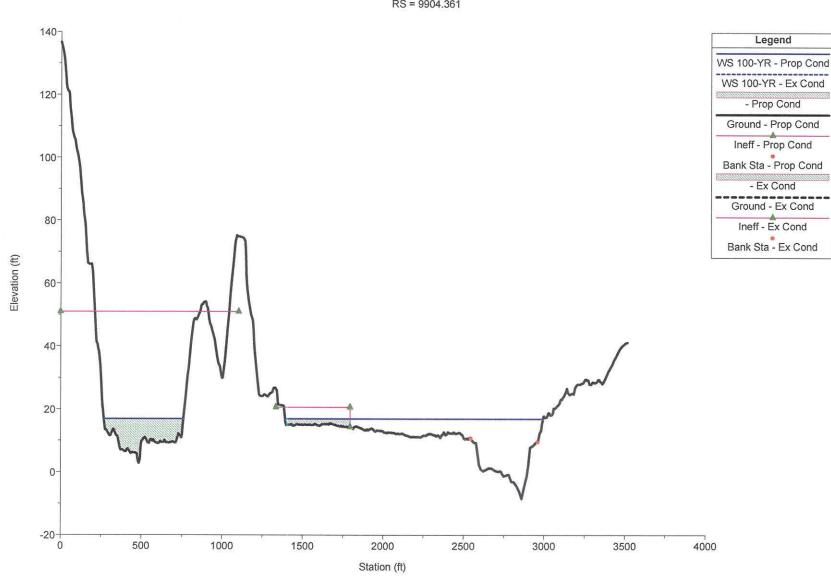
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Station (ft)

34080_Brooten_Rd_Hydro

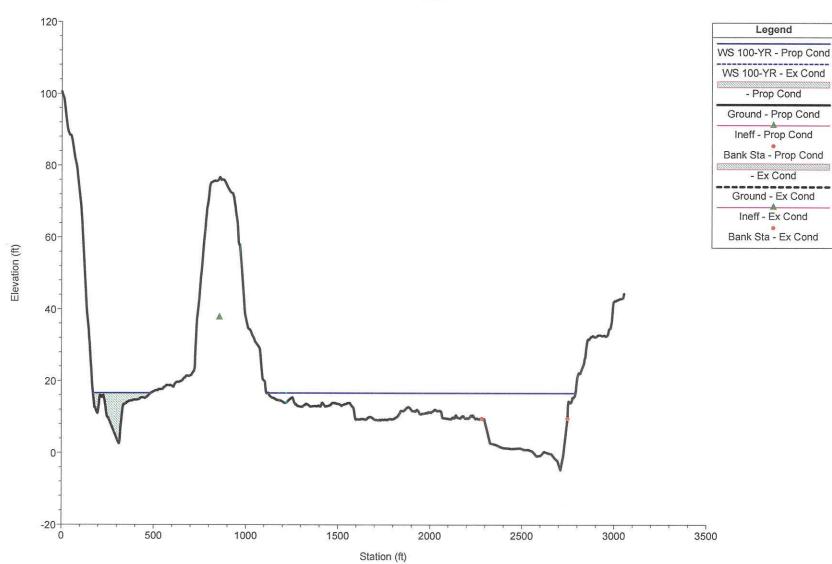
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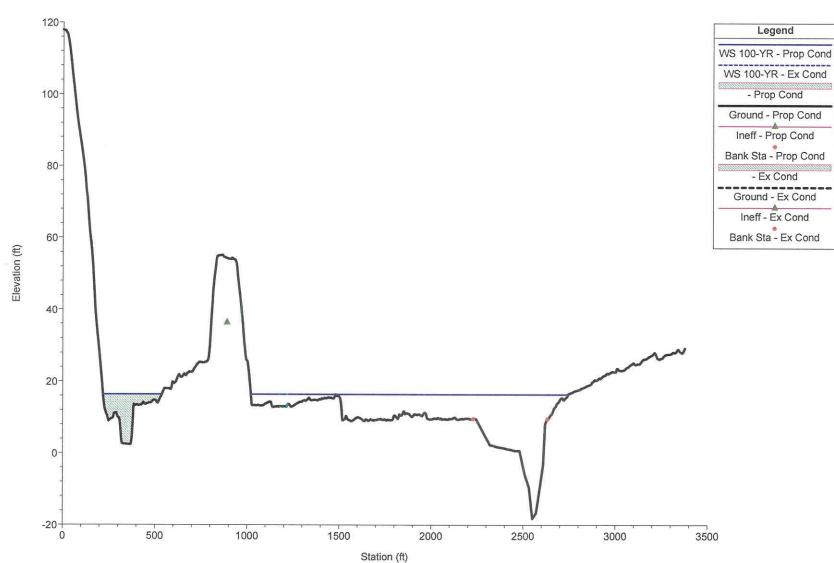
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34080_Brooten_Rd_Hydro RS = 9904.361



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34080_Brooten_Rd_Hydro RS = 8988.11



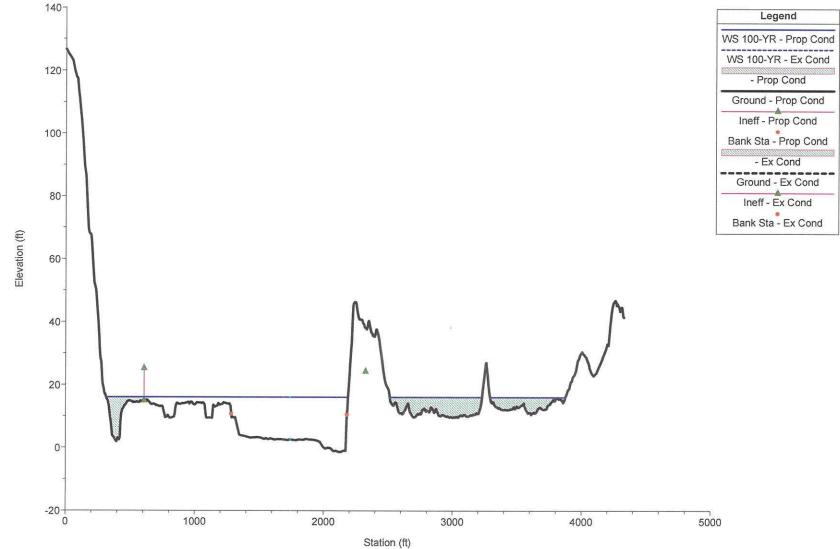
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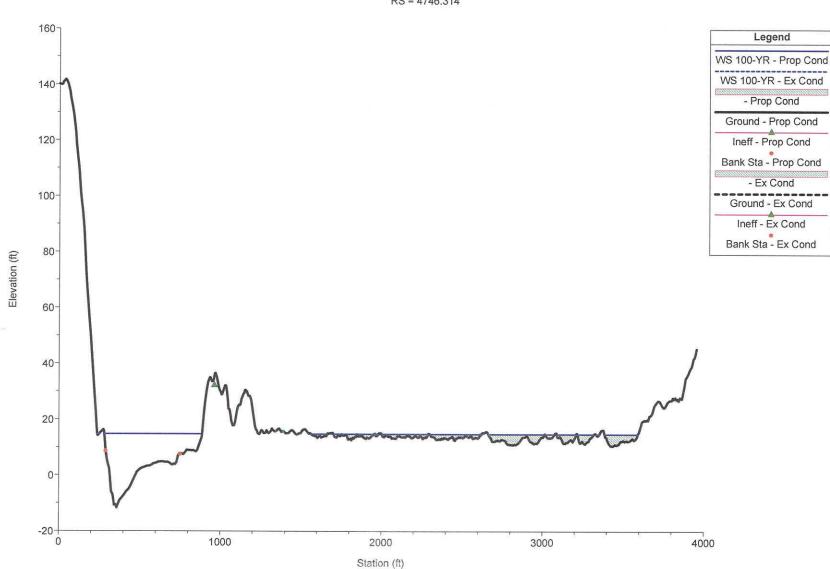
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34080_Brooten_Rd_Hydro RS = 7839.108

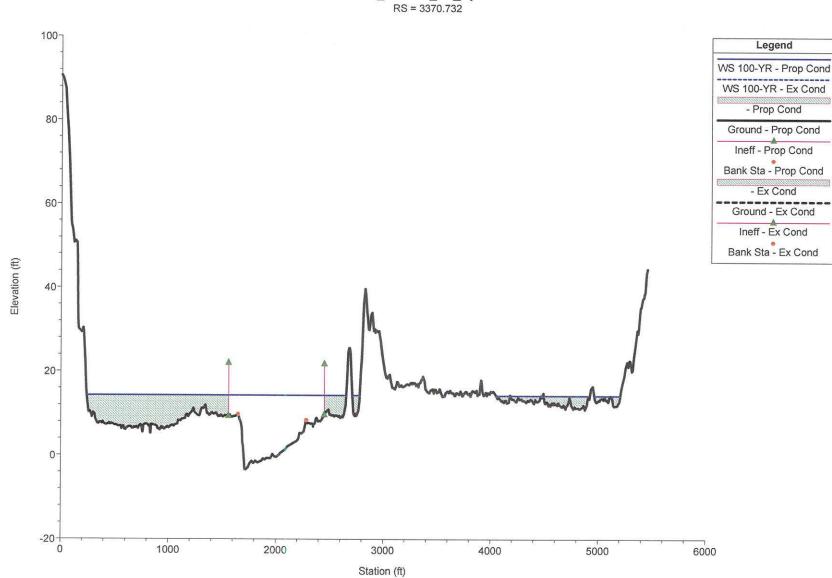
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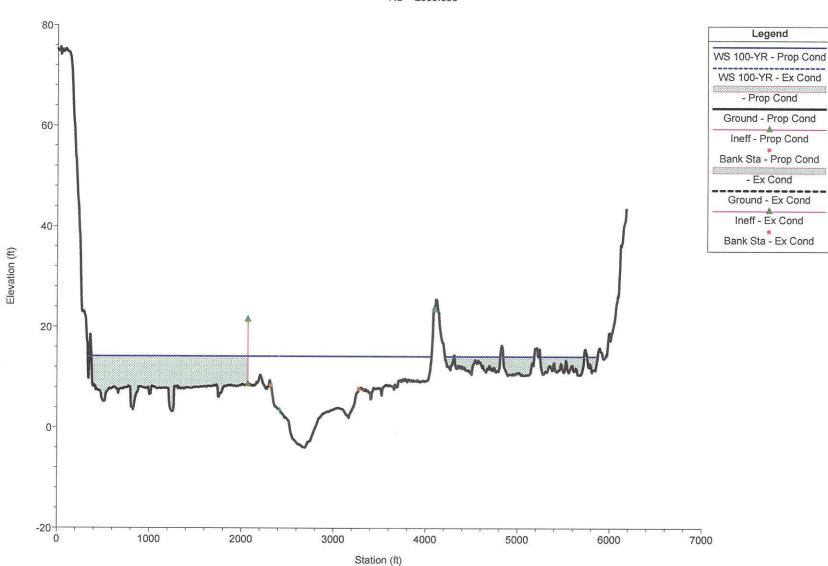


34080_Brooten_Rd_Hydro RS = 4746.314



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34080_Brooten_Rd_Hydro RS = 3370.732



34080_Brooten_Rd_Hydro RS = 2099.855

EXHIBIT C

Melissa Jenck

From:	Crowley, Josha <josha.crowley@atkinsglobal.com></josha.crowley@atkinsglobal.com>
Sent:	Wednesday, June 15, 2022 3:46 PM
То:	Melissa Jenck
Subject:	RE: EXTERNAL: RE: Whitaker Hydraulic Report

Yep - this looks good too. Very low velocities in this area too and zero impact from the changes.

Josha Crowley, PE, PMP, CFM, D.WRE RSC Lead | STARR II - Region 10 Service Center Phone: (425) 329-3679 Cell: (206) 499-2440

From: Melissa Jenck <mjenck@co.tillamook.or.us>
Sent: Wednesday, June 15, 2022 10:33 AM
To: Crowley, Josha <Josha.Crowley@atkinsglobal.com>
Subject: RE: EXTERNAL: RE: Whitaker Hydraulic Report

Good morning Josha,

See attached for the documentation for updated materials.

Thanks!



Melissa Jenck (she/her) | CFM, Senior Planner TILLAMOOK COUNTY | Community Development 1510-B Third Street Tillamook, OR 97141 Phone (503) 842-3408 x3301 mjenck@co.tillamook.or.us

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The Department is excited to announce that we are OPEN to the public by appointment. To review the list of services provided and to schedule an appointment with us, please visit <u>https://www.co.tillamook.or.us/gov/ComDev/</u> to access the appointment scheduler portal.

From: Crowley, Josha <<u>Josha.Crowley@atkinsglobal.com</u>> Sent: Tuesday, June 14, 2022 10:09 AM To: Melissa Jenck <<u>mjenck@co.tillamook.or.us</u>> Subject: EXTERNAL: RE: Whitaker Hydraulic Report

[NOTICE: This message originated outside of Tillamook County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Can you please ask the requester to verify the HEC-RAS model? I only see a proposed conditions geometry and plan. I would like the HEC-RAS model to include the duplicate effective, and existing conditions geometries and plans to facilitate comparison. Thank you!

Josha Crowley, PE, PMP, CFM, D.WRE RSC Lead | STARR II - Region 10 Service Center Phone: (425) 329-3679 Cell: (206) 499-2440

From: Melissa Jenck <<u>mjenck@co.tillamook.or.us</u>>
Sent: Monday, June 13, 2022 3:21 PM
To: Crowley, Josha <<u>Josha.Crowley@atkinsglobal.com</u>>
Subject: Whitaker Hydraulic Report

Good afternoon Josha,

Hope you're doing well. I've got a hydraulic report for a property in Pacific City. This is an addition to an existing dwelling. I've attached the modeling data, as well. Would, as always, appreciate your eye on this to ensure it's been prepared appropriately.

Thanks!



Melissa Jenck (she/her) | CFM, Senior Planner TILLAMOOK COUNTY | Community Development 1510-B Third Street Tillamook, OR 97141 Phone (503) 842-3408 x3301 mjenck@co.tillamook.or.us

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The Department is excited to announce that we are OPEN to the public by appointment. To review the list of services provided and to schedule an appointment with us, please visit <u>https://www.co.tillamook.or.us/gov/ComDev/</u> to access the appointment scheduler portal.

At Atkins - member of the SNC-Lavalin Group, we work flexible hours around the world. Although I have sent this email at a time convenient for me, I don't expect you to respond until it works for you.

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Melissa Jenck

From: Sent: To: Subject: Lynn Tone Tuesday, August 16, 2022 8:09 AM Melissa Jenck FW: 851-22-000239-PLNG

From: Ron Newton <rnewton@co.tillamook.or.us> Sent: Friday, August 12, 2022 10:54 AM To: Lynn Tone <ltone@co.tillamook.or.us> Cc: Jasper Lind <jlind@co.tillamook.or.us> Subject: Re: 851-22-000239-PLNG

Lynn

Application 851-22-000239 indicates that the new accessory structure will be built with a garage door, indicating additional vehicular use of the subject parcel. Tillamook County ordinance #44, Section III (B), requires any change to the use of an existing Road Approach to be reviewed by Public Works Engineering staff.

The applicant should be directed to contact the Public Works office prior to the commencement of any construction on the property.

Thank you

Ron Newton Engineering Tech. *III* Tillamook County Public Works Working Remote Until Further Notice Cell - (503) 812-1441

"The two most important days in your life are the day you are born, and the day you find out why" Mark Twain

From: Lynn Tone <<u>ltone@co.tillamook.or.us</u>> Sent: Thursday, August 11, 2022 2:51 PM To: ESTES Brett DLCD <<u>Brett.ESTES@dlcd.oregon.gov</u>> Subject: 851-22-000239-PLNG

Please see attached pdf for Notice of Administrative Review; 851-22-000239-PLNG: Whitaker

Thank you



Lynn Tone | Office Specialist II TILLAMOOK COUNTY | Surveyor's Office/Community Development 1510 3rd Street Ste C Tillamook, OR 97141 Phone (503) 842-3423 Itone@co.tillamook.or.us

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