Decision Table M: Willamette River – Miscellaneous Code Amendments Part 1

This table contains all remaining edits to Proposed Draft Volume 2A, Part 2, code section 33.475. Generally, the edits include:

- Changes to the exemptions for maintenance/repair/replacement of structures below ordinary high water, new signs and soil amendments;
- Clarifications regarding landscaping disturbance areas;
- Clarifications to river-related uses associated with marine passenger docks; and
- Other minor edits.

Contents of Decision Packet x:

- Decision Table M
- Memo M

Items Marked for PSC Discussion:

None

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M1 and Memo Page 6	20885	Susie Lahsene, Port of Portland	Existing Development in the River Environmental Overlay Zone	Zoning code 33.475.040.B.2.d exempts maintenance, alterations, repair and replacement of existing development and structures located above the ordinary high water mark from the river environmental overlay zone regulations. Development and structures below the ordinary high water mark are not exempted.	Allow as an exemption, the replacement of piles, which are located below ordinary high water.	Proposed amendment to allow maintenance, alterations, repair and replacement of existing development and structure located both above and below the ordinary high water mark.	This is consistent with the regulations throughout the rest of the City and the existing Greenway, which allow all existing development and structures to be maintained, repaired and replaced.		 Support staff rec. Other
M2 and Memo Page 8 And Page 54	20324	Staci Monroe, BDS	Landscaping Standards	Zoning code 33.475.040.B.2.f exempts removal of structure and debris, application of soil amendments and placement of temporary erosion measure that are required by the landscaping standard, 33.475.220.	The code is not clear that the actions are exempt only when done as part of meeting the landscaping standard.	 Proposed amendment to: Move the application of soil amendment to a standard in the river environmental overlay zone subsection, 33.475.440; Retain the exemption for structures and debris only if above the ordinary high water mark; and Move installation of temporary erosion control to a separate exemption. 	 Applying soil to amend the quality of the planting medium in the river environmental overlay zone will be reviewed through a plan check. Qualifications, copied from the landscaping standard, such as depth of medium and when the applications can occur (e.g., not when the ground is frozen) are be added. Removal of structures and debris above OHWM in the river e-zone will improve the quality of the natural resources. Temporary erosion control is necessary for many reasons to prevent erosion and sediment leaving the site and entering the water. 		 Support staff rec. Other
M3 and Memo Page 8	20324	Staci Monroe, BDS	Exemption for Structures on Docks	Zoning code 33.475.040.B.2.j exempts structures located on an existing dock, wharf or pier including on any gangway that provides access to the dock, wharf or pier.	The code is not clear if this applies to new or existing structures.	Proposed amended to clarify that the exemption applies to new or alternations to existing structures.	The intent of the code was to allow new and alternations to existing structures on existing wharf, docks and piers; however, the code was not clear.		Support staff rec.Other

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M4 and Memo Page 12	20324	Staci Monroe, BDS	Planting Disturbance Areas	Zoning code 33.475.040.B.2.o and .p exempt some development from the new River Environmental overlay zone requirements, provided disturbance areas are replanted to the standards of 33.475.220. Zoning code 33.475.220 is the landscaping standard that applies to the land riverward of the river setback.	 Exemptions refer to 33.475.220 for replanting of temporary disturbance areas, but if that area is more than 50 ft landward of the top-of-bank there is no planting requirement? Be consistent between the exemptions with regards to what plant is required. Some require replanting to 33.475.220 and others just require replanting to previous conditions. 	 Proposed amendments to the exemptions that require temporary disturbance areas more 100 square feet in size to meet the landscaping standards of Table 475-1 if within the river setback, and the subarea 3 standards of Table 475-1 if outside of the river setback. Proposed amended to the exemptions to require that temporary disturbance areas less than 100 square feet in size must be planted with three shrubs and seeded with a grass/forbs mix. 	Trail. The requirement is for tree densities equal to that of the other subareas and ground cover, but no shrub cover is required in subarea 3. 2. Typically, when there is ground disturbance that is exempt from the River Environmental overlay zone requirements, then any temporary disturbance must be replanted to meet the landscaping standards of Table 475-1. However, when the exemption specifies that the temporary disturbance be less than 100 square feet, then the landscaping standards of Table		 Support staff rec. Other
M5 and Memo Page 12	20885	Susie Lahsene, Port of Portland	Signs in the River Environmental Overlay Zone	Zoning code 33.475.040.B.2 does not exempt signs from the regulations of the River Environmental overlay zone.	Allow signs, including navigation markers and warning signs, in the river.	Proposed amendment to exempt signs from the River Environmental overlay zone regulations.	This is consistent with the existing Greenway regulations, which exempts signs. Signs are important for wayfinding along the Greenway Trail, information about resource enhancement projects, stormwater facilities, river navigation and public safety.		Support staff rec.Other
M6 and Memo Page 14	20324	Staci Monroe, BDS	Contamination Clean Up	Zoning code 33.475.040.C explains when the regulations of 33.475.500, Removal or Remediation of Hazardous Substances, apply. 33.475.500 applies to actions to remove or remediate hazardous substances that have been approved or selected under Oregon or federal clean up law.	Clarify that 33.475.500 only applies to the portion of the site where the removal or remediation action is being performed. Outside of that area, the rest of the site is subject to the other regulations of the chapter including 33.475.220, landscaping standards.	Proposed amendment to clarify that the regulations of 33.475.500 only apply within the portions of the site where clean up actions are proposed. Outside of the removal and remediation areas, all other relevant regulations and procedures of 33.475 apply.	It was always the intent that 33.475.500 would apply strictly to the area where clean-up actions are being performed. This amendment clarifies that intent.		 Support staff rec. Other

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M7 and Memo Page 14	20324	Staci Monroe, BDS	Property Line Adjustments	Zoning code 33.475.050 addresses property line adjustments such that this action does not result in a property that is in more than one river overlay zone, unless the second overlay is in the River Environmental overlay zone.	 Clarify if an adjustment is allowed. Move this to a different location in the code. It's odd placement between exemption and permit requirements. Why not place it in 	Proposed amendment to code subsection to clarify that adjustments are prohibited and move it to 33.475.260. The subsection would relocate from the chapter's General section to the River General Overlay Zone section.	 It makes sense to clarify that adjustments are prohibited with property line adjustments. The goal of this regulation is not to create properties along the river without river frontage. It also makes sense to move the code subsection out of the General section and into the River General Overlay Zone development standards section, since this would apply to all properties in the Central Reach (Map 475-1). 		Support staff rec.Other
M8 and Memo Page 14	20324	Staci Monroe, BDS	Site Plan – Existing Conditions	Zoning code 33.475.060.B.1 is the information required to be shown on the existing conditions site plan. (<i>Note – In</i> the PSC Amended Proposed Draft, .060 is now .050.)	 Add top of bank Change 3" tree to 6" tree. There are no standards or exemptions to apply to 3" trees. If keeping 3" trees in this section, please add commentary to explain. 	 Proposed amendment to add showing the top of bank on the existing conditions site plan. Proposed amendments to require trees 1.5 inches in diameter or larger to be shown on the site plan. 	 Adding the top of bank to the existing conditions requirement addresses a clerical error. The second amendment reflects the decision by PSC at the November work session to require replacement of trees 1.5 inches or larger in diameter. 		 Support staff rec. Other
M9 and Memo Page 22		BPS	River-Related	Zoning code 33.475.215 limits the size of development for river-related uses associated with a marine passenger dock.		Proposed amendment to update the purpose statement to be clear that the size limitation within the river setback is only for river-related associated with a marine passenger dock and reason for limitation.	River-related development is typically allowed in the river setback. This limitation is specific to development associated with a marine passenger dock. The intent is to make sure that river setback is not dominated by a structure and that there is room for river-dependent uses, natural resources, recreation and public access.		Support staff rec.Other
M10 and Memo Page 32	20324	Staci Monroe, BDS	Exterior Lighting	Zoning Code 33.475.230.C requirements do not apply to Tom McCall Waterfront Park or public rights-of-way. However, the list of where exterior lights are allowed states both the park and rights- of-way.	Remove a and b from the list of where exterior lights are allowed	Proposed amendments to rewrite this standard to be clear where exterior lighting is and is not allowed and where it is exempt from the standard.	The amendment clarifies the standard and removes duplication under 33.475.230. C.1. As Governor Tom McCall Waterfront Park and public rights-of-way are exempt from this requirement per the beginning statement under 33.475.230.C.		Support staff rec.Other

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M11 and Memo Page 38	20324	Staci Monroe, BDS		Zoning code 33.475.440.B is the standards for new utilities and upgrades to existing utilities including stormwater conveyance facilities.	 This section is unclear. A semi-colon or other punctuation needed in the sentence to break up what new utility line includes. If it is all inclusive, then the standards below should be simplified to just refer to new utility line. New utility line is listed in both standard 1 and 2 so it is unclear where the disturbance area is allowed. Why would a new public utility line be limited to 10-foot wide disturbance area but an upgrade would be allowed to disturb a 15 feet area. The pipe width could be the same. Does standard 3 only apply to a new line but not an upgrade? Shouldn't all lines be limited? Standard 5 disturbance areas – if they extend beyond 50 feet from top of bank, how does 33.475.220 Landscaping get applied? If the landscaping regulations of 33.475.220 apply anyway, why is this standard needed? Should standard 6 also include exempting B.5? 	 Proposed amendments to: Clarify that the standards apply to both new and upgrades to existing utilities including stormwater facilities. Simplify the standard by allowing the disturbance area to be no more than 15 feet wide. Simplify that the disturbance area needs to be above top-of-bank. Update the landscaping requirements to specify that the subarea 3 standards apply outside of the river setback. 	These amendments do not change the intent of the standard. They clarify the standard and make it more workable for staff performing a plan check. The one substantive change is to simplify the standard by making the disturbance area for any utility line (private, public, new or upgrade) 15 feet in width.		□ Support staff rec. □ Other
M12 and Memo Page 42	20324 20701 20846	Staci Monroe, BDS Michael Jordan, BES Mike Abbate, PPR		Zoning Code 33.475.440.E is the standards for trails. Trails must be setback 10 feet from the top of bank of the Willamette River or a stream and 30 feet from a wetland or other water body.	Setback distance to a wetland is listed in both standard E.1 and E.2. Please clarify which setback distance(s) should be used.	Proposed amendment to delete a wetland or other water body from E.1 and maintain both in the standard for E.2.	The Greenway Trail is allowed to be located nearer to streams than other types of disturbance in the river environmental overlay zone. This is to facilitate completion of the Greenway Trail in the Central City.		Support staff rec.Other

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M13 and Memo Page 42-44	20324	Staci Monroe, BDS	Landscaping Requirements in the River Environmental Overlay Zone	Zoning codes 33.475.440.E, E, F, and G are standards for trails, public viewing areas, view corridors and resource enhancement. All four require that temporary disturbance areas be planted to meet the landscaping standards of 33.475.220.	All have a standard to plant temporary disturbance areas to meet 33.475.220. Not clear what to apply if the temporary disturbance area extends beyond 50 feet from top of bank. If these sites are already subject to the landscaping standards, area these standards necessary?	Proposed amendments to the standards to require that temporary disturbance areas meet the landscaping standards of Table 475-1 if within the river setback, and the subarea 3 standards of Table 475-1 if outside of the river setback.	The subarea 3 requirements are intended to be compatible with upland, Central City urban development and visibility and safety related to the Greenway Trail. The requirement is for tree densities equal to that of the other subareas and ground cover, but no shrub cover is required in subarea 3.		 Support staff rec. Other
M14 and Memo Page 44	20324	Staci Monroe, BDS	Site Investigative Work	Zoning code 33.475.440.H provides standards for site investigative work that is temporary and doesn't disturb more than 100 square feet of ground. Zoning Code 33.475.040.B.2.r is an exemption that is written nearly the same as the standard.	What does "site investigative work mean? Test pits and access? Please clarify.	 Proposed amendment to 33.475.440.H to clarify that site investigative work includes test pits and that the disturbance limitation is per test pit or monitoring station. Proposed amendment to 33.475.040.B.2.r to deleted this exemption. 	 Test pits may be dug to test for soil contamination or cultural resources or other investigative work. The exemption is duplicative and has nearly the same requirements. The standard requires a plan check to make sure the actions meet the requirements. 		 Support staff rec. Other
M15 and Memo Page 52		BPS	Mitigation Standards	Zoning code 33.475.440.K.7 requires that for larger mitigation sites a diversity of trees and shrubs to be planted.	Simplify the requirement and make it consistent with the landscaping standards.	Proposed amendment to replace the current diversity standards with the 33.475.220.D landscaping requirement for plant diversity	The proposed mitigation planting standard says if more than 10 trees are used then no more than 50% of the trees can be the same species and no more than 25% of the total plants may be the same genus. The proposed landscaping standard requires that for planting areas over 600 square feet, at least two different tree species and sizes and three different shrub species be used. Both result in at least two different tree species being used. However the landscaping standard approach is much more simple to implement.		Support staff rec.Other
M16 and Memo Page 56-60		BPS	Correcting Violations	Zoning code 33.475.450.B.2 provides options for correcting violations of this chapter. The remedy is to plant the disturbed area with one tree, six shrubs and eight other ground cover plants for every 200 square feet.	Make consistent with landscaping, resource enhancement and mitigation standards.	Proposed amendment to make correcting violations consistent with the landscaping, resource enhancement and mitigation standards.	Unlike other sections of this chapter, the option does not reference the landscaping planting options that allow flexibility for choosing planting density based on tree size.		Support staff rec.Other

Ref #	Comment	Commenter(s)	Торіс	Proposed draft	Request(s)	Staff recommendation	Staff rationale	Discuss?	PSC decision
M17 and Memo Page 62	20324 20701	Staci Monroe, BDS Michael Jordan, BES	Contamination Clean Up	Zoning code 33.475.500.E states that a supplemental site plan is required to receive a determination letter from the city.	Remove the reference to "determining substantial conformance with standards", as these are not standards, they are regulations.	Proposed amendment to remove E.	The intent of this code section is to consolidate the substantive requirements of the River Environmental overlay zone. This is to make it easier for the Oregon Department of Environmental Quality to determine if an applicant is meeting the substantive requirements of the local jurisdiction, and is therefore exempt from local land use procedures. The City of Portland does not have a formal role in the process between ODEQ and the applicant. Per 33.475.500.C.2 if an applicant wants to obtain a permit, they may elect to do so even if otherwise exempted by the state.		 Support staff rec. Other
M18 and Memo Page 62		BPS	Contamination Clean Up	Zoning code 33.475.500.F.1.b.[3] and Table 475-4 specifies the planting requirements for contamination clean- up actions.	Make the standards for planting consistent with the landscaping, resource enhancement and mitigation standards throughout the rest of the Chapter	 Proposed amendments to: Update Table 475-4 to be consistent with Table 475-3 for planting density. Update [3] to be consistent with other standards for planting density. 	These amendments simply make this section consistent with other sections of the Chapter.		 Support staff rec. Other
M19	20324	Staci Monroe, BDS BPS	33.475 Typos		Multiple typos and clerical errors throughout 33.475.	Proposed amendments to fix typos and clerical errors.			 Support staff rec. Other
M20		BPS	33.475 Commentary		Update the commentary.	Proposed amendments to make the commentary consistent with amended zoning code.			



MEMO

DATE: TO:	December 28, 2016 Planning and Sustainability Commission
TO:	Planning and Sustainability Commission
FROM:	Mindy Brooks, City Planner, Central City 2035
ĉ	Susan Anderson, Director; Joe Zehnder, Chief Planner; Sallie Edmunds, Central City Planning Manager
SUBJECT:	Attachment to Decision Table M: Willamette River – Miscellaneous Code Amendments

in two highlighted colors that correspond with decision tables summarizing the amendments: testimony and requests from the Planning and Sustainability Commission. The amendments are shown Amendments to Proposed Draft CC2035 Volume 2A, Part 2, zoning code chapter 33.475 based on public

- amendments were summarized in Decision Table G Willamette River: Environment and Gray highlighted text shows amendments approved by the PSC on November 16, 2016. Those Decision Table H – Willamette River: Open Space and Development.
- Willamette River: Miscellaneous Code Amendments. These amendments are the subject of the January 10, 2017 PSC work session. Yellow highlighted text identifies new amendments summarized in Decision Table M –

chapter. This zoning code chapter will come back to PSC with the full CC2035 package for a final vote in the spring. 33.475 because the amendments are easier to understand when set in context of the entire code At the PSC work session, staff will be asking the commissioners to approve all of the amendments to



Chapter 33.475 is a new chapter and is not underlined for ease of reading

New Chapter 33.475 River Overlay Zones

Waterfront Subdistrict and sites zoned industrial. The City is updating the urban center of our city. recreation, commerce, natural resources, transportation and scenic appreciation in the broad array of uses and functions that promote, protect, and enhance opportunities for regulatory update. Overall, it calls for a multifunctional river and riverfront area with a 2035 Plan. Volume 1 of the proposed draft contains the policy framework for this Willamette Greenway boundary in the Central Reach, except for sites within the South Willamette Greenway Plan (1988) for the Central Reach as part of the Central City This new chapter establishes the development regulations for sites within the

completed, Chapter 475 will be updated specifically for those areas and will replace 33.510.253. In the future, as river planning for the North and South reaches is characteristics with those in the North Reach. included in the update of the <mark>industrial</mark> North Reach Plan that focuses on the working Chapter 440 Greenway Overlay Zones in its entirety. The greenway regulations for the South Waterfront Subdistrict are found in <mark>harbor industrial district: because Ec</mark>entral Reach sites zoned industrial share common Industrial<mark>ly</mark> zoned sites will be

the Central Reach, the applicable river overlay zones are River General and River River <mark>Oo</mark>verlay <mark>Zz</mark>ones replaces Greenway <mark>Oo</mark>verlay <mark>Zz</mark>ones' terminology of 33.440. In Environmental.

33.475 River Overlay Zones

Sections:
General
33.475.010 Purpose
33.475.020 River Overlay Zones 33.475.030 Where These Regulations Apply
33.475.040 When These Regulations Apply
33.475.050 Property Line Adjustments 33.475.060 Supplemental Permit Application Requirements
River General Overlay Zone
33.475.200 Use Regulations
33.475.210 River Setback
33.475.215 Marine Passenger Docks <mark>and Marine Passenger Terminals</mark>
33.475.220 Landscaping
33.475.230 Exterior Lighting
33.475.240 Public Viewpoints
33.475.250 Nonconforming Uses and Development
<u>33.475.260 Property Line Adjustments</u>
River Environmental Overlay Zone
33.475.400 Use Regulations
33.475.410 Environmental Report
33.475.420 Review Procedures
33.475.430 Prohibitions
33.475.440 Development Standards
33.475.450 Corrections to Violations of River Environmental Overlay Zone
Development Standards
Clean Up of Contaminated Sites
Man 475-1 Central Reach River Overlav Boundarv
Map 475-2 Willamette River Top of Bank
Map 475-3 Landscaping Requirements at Governor Tom McCall Waterfront Park and Public Beaches

33.475.0<mark>21</mark>0. A. Purpose

bring people to the riverfront, meeting the purpose of the River General overlay zone. scale residential, commercial, mixed-use development and open space/recreation uses that entire sites and includes develop<mark>ment</mark> standards for the river setback, landscaping and the Greenway Boundary within the Central Reach. General overlay zone. Instead<mark>,</mark> the base zones govern<mark>s</mark> the allowed uses including urban lighting. There are no use restrictions outside of the river setback area in the River The River General and River Environmental overlay zones exist or are proposed along all of The River General overlay zone covers

feet. Low ranking resources are not included in the River Environmental overlay zone width of a protected riparian corridor around rivers, streams and wetlands <mark>s</mark>-should be 50 Portland's Natural Resources Inventory, which has documented that the absolute minimum available science, including Metro's Title 13 Nature in Neighborhoods Program and City of the top of bank. The width of the riparian area may wary be wider than 50 feet from the wildlife habitat as identified in the Central Reach Natural Resources Inventory. Those natural resources include the river, riverbank and riparian areas within at least 50 feet of Environmental overlay zone is applied to high or medium ranked riparian corridors and <mark>top of bank</mark> depending on the natural resources present including floodplain and riparian The River Environmental overlay zone overlaps the River General overlay zone. The River This is consistent with best

and result in necessary changes to the requirements of this section. Federal regulations related to the floodway and floodplain may change in the near future

33.475.020.B. Map Symbols

boundary of these regulations in the Central Reach. overlay zones. The River General overlay zone has a map symbol g^* to differentiate it from the River General overlay zones that exist in the other reaches and outside of the This subsection provides the map symbols for River General and River Environmenta

Industrial and River Recreational overlay zones. When the City updates the Willamette future. In the North and South reaches of the Willamette River, there are the River replaced by 33.475. Greenway Plan for the North and South reaches, the regulations from 33.440 will be placeholders for the other river overlay zones that will be included in this chapter in the There are code section spaces between the River g^* and River e regulations that are The final 33.475 will have the following sections:

33.475.100 River Industrial Overlay Zone (future - not included)

33.475.200 River General Overlay Zone (included)

33.475.300 River Recreational Overlay Zone (future- not included)

33.475.400 River Environmental Overlay Zone (included)

33.475.500 Clean Up of Contaminated Sites (included)

The River Environmental overlay zone will be applied in addition to sites along with one of

the other <mark>Ar</mark>iver <mark>Oo</mark>verlay <mark>Zz</mark>ones. It is not a freestanding overlay zone.

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33.475.010 Purpose

development of land, change of use and intensification of use. The regulations reflect the desired central reach of the Willamette River. This purpose is achieved by applying regulations that control and maintenance of the economic, natural, scenic, and recreational qualities of lands along the character of the central reach of the Willamette River—a character that includes: The River Overlay Z ones generally promote the protection, conservation, restoration, enhancement

- A healthy river and watershed;
- uses, maritime and commercial activities, and a welcoming mixed-use community; and A thriving riverfront with regional gathering spaces, active and passive recreational

The River Overlay Zones also implement the City's responsibilities under ORS 390.310 to 390.368 Multi-modal access to, along and in the river.

33.475.020 River Overlay Zones

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- ≥ Plan/Central Reach. There are two River Overlay Zzones each with their own purpose: **Purpose.** The River Overlay $\frac{2}{2}$ ones implement the land use pattern identified in the River
- <u>+</u> are consistent with the base zoning and allows for public use and enjoyment of the River General. The River General overlay zone allows for uses and development that riverfront.
- 2 natural resource areas identified in a detailed study titled Central Reach Natural or functions over time. The River Environmental overlay zone applies to specific unavoidable impacts and is intended to have no net loss of natural resource features designed to be sensitive to the site's protected resources. Mitigation is required for flexibility and innovation in site planting and provide for development that is carefully values contained within the overlay zone. The environmental regulations encourage development and vegetation maintenance on the natural resources and functional environmentally sensitive development. The purpose is to limit the impacts from enhances important natural resource functions and values while allowing River Environmental. The River Environmental overlay zone protects, conserves and with one of the other River Overlay zones. Resources Protection Plan (2015). This overlay zone always applies in combination
- Map symbols. The River Overlay Zones are shown on the official zoning maps with the following symbols:

River Environmental	River General	<u>Overlay Zone</u>
e	ଏବ *	<u>Map Symbol</u>

new regulations apply. until such time that the North Reach Plan is as new regulations are adopted and those 33.475.030 and 33.475.040 Where and When These Regulations Apply Central Reach minus South Waterfront (see 33.510.253) and sites zoned industrial within which the river overlay zones and regulations of this chapter apply in the development that occur on the land and in the water. Map 475-1 depicts the area The latter will continue to meet the regulations of 33.440 Greenway Overlay Zones These sections clarify where and when the regulations in this chapter apply to uses and

33.475.040.B.2 Exemptions

or federal agency. Examples include operation, maintenance, repair and replacement of exempt from Greenway Review. currently exempt from the regulations of the Environmental <mark>Oo</mark>verlay zones or are the recommended exemptions mirror the levels of development and alteration that are a building, and placement of a certain number of piles and dolphins. The majority of existing structures and improvements, alterations that do not change the footprint of have little or no impact on resources or the activity is adequately regulated by a state regulations are important for the continued operation of existing facilities and they zone will be exempt from regulation. The activities that are exempt from the Some development and activities that occur within the River Environmental overlay

33.475.030 Where These Regulations Apply

this chapter do not apply to the River General (g) overlay zone located within the Greenway Overlay Maps with the River General (g*) and the River Environmental (e) overlay zones. The regulations of the Willamette Greenway Plan boundary shown on Map 475-1 and designated on the Official Zoning boundary. regulations that apply to the River General (g) overlay zone within the Greenway Overlay $\frac{1}{2^2}$ ones The regulations of this chapter apply to the land and the water within the Central Reach portion of <mark>zZ</mark>one<mark>s</mark> boundary shown on Map 440-1. See Chapter 33.440, Greenway Overlay <mark>zZ</mark>ones for

33.475.040 When These Regulations Apply

- ≥ apply to any changes to land or development in the River General (g*) overlay zone River General Overlay Zone. The regulations in Sections 33.475.200 through 33.475.230 including rights-of-way.
- River Environmental Overlay Zone. The regulations in 33.475.400 through 33.475.450 apply in the River Environmental (e) overlay zone as follows:
- 1. Unless exempted by Paragraph B.2., the regulations apply to:
- a. Development;
- o. Removing, cutting, mowing, clearing, burning or poisoning native trees or plants,
- c. Changing topography, grading, excavation or filling; and
- b. Resource Enhancement.
- 2 zone regulations: Exemptions. The following items are exempt from the River Environmental overlay
- a. Change of ownership;
- o. Temporary emergency procedures necessary for the protection of life, health, safety, or property;
- ? Changes to the interior of a building where there are no exterior alterations;
- d structures, exterior improvements, irrigation system, stormwater facilities, non-Operation, maintenance, alterations, repair, and replacement of existing whenever total square footage, building coverage or utility size is increased; potable water systems, roads, utilities, public trails and paths, public viewpoints, public interpretive facilities, and erosion control measures-that are located above high water mark. Alterations, repair and replacement is not exempt

33.475.040.B.2.e

water between <mark>the ordinary high water mark (OHWM) zero and 20 feet <mark>below the</mark></mark> significant detrimental impacts on the habitat that the shallow water provides exemption because dredging in or near shallow water and beaches could have of gravel/materials from the river is exempt from greenway review. This narrows the impacts of dredging could affect the habitat in the more shallow water areas the area between 20 and 35 feet deep represents an area of concern where the meet development standards or go through River Review. Shallow water is identified as navigation channel and dredging in waters more than 35 feet deep without having to including salmon, and impacts to these areas should be avoided and mitigated if the Beaches and shallow water play important roles in the life cycle of aquatic species, Under the current greenway regulations all dredging, channel maintenance and removal <mark>OHWM. deep, howeven uU</mark>sing 35 feet as the trigger for review <mark>is appropriate</mark> because can't be avoided. The exemption language allows dredging in the main federal

River Environmental overlay zone regulations. Maintenance dredging that occurs outside the main river channel that and has been approved by the U.S. Army Corps of Engineers will continue to be exempt from the

33.475.040.B.2.f

ocated below the OHWM, then the regulations of 33.475.400 must be met <u>equires removal of structures and debris prior to planting vegetation. If the</u> The River General overlay zone requires landscaping and that landscaping standard emoval is exempt from the regulations of 33.475.400. If the structures or debris are <u>tructures or debris are located above the ordinary high water mark (OHWM), then</u>

33, 475, 040, B, 2, g.

the landscaping standard is met, then it is exempt from the River Environmental overlay zone requirements The River General overlay zone requires landscaping and that landscaping requires emoval of structures and debris and amending the soil prior to planting vegetation.

- . Dredging, channel maintenance, and the removal of materials from the river as follows:
- (1)Dredging, channel maintenance, and the removal of material within the federal navigation channel.
- 2 Dredging, channel maintenance, and the removal of materials outside the federal navigation channel as follows:
- Dredging and the removal of materials in waters that area 35 feet deep or deeper; or
- Channel, slip and berth maintenance that has been approved by the U.S Army Corps of Engineers.
- ω The placement of dredged materials within the River Environmental overlay zone is not exempt.
- ÷. River, streams or drainageways or located within 30 feet of a wetland; <mark>structure is</mark> located <mark>above below</mark> the ordinary high water mark of the Willamette Removal of structures and debris<mark>, application of soil amendments, <u>placement o</u></mark> 33.475.220 Landscaping Standards. erosion control measures, and planting of vegetation as required by Removal of structures is not exempt if the
- Installation of temporary erosion control measures;
- B D Alterations to buildings that do not change the building footprint and do not require adjustments to site-related development standards;
- .₽. List; Continued maintenance of existing gardens, lawns, and other planted areas, including the installation of new plants except those listed on the Nuisance Plants
- ÷ Changes to existing disturbance areas to accommodate outdoor activities such as Nuisance Plants List and no trees six or more inches in diameter are removed; events, play areas and gardens as long as plantings do not include plants on the
- j. Structures Development located on an existing dock, wharf, or pier. including A dock, wharf or pier; dock, wharf, , or pier includes the on any gangway that provides access to the

33.475.040.B.2.I

allows for basic maintenance to ensure survivability of native vegetation within the Removal of non-native vegetation with handheld equipment and thinning of small trees throughout the <mark>AR</mark>iver <mark>eE</mark>nvironmental overlay zone may extend landward of the river setback, outside of the river setback the subarea 3 andscaping standards apply. andscaping standards of Table 475-1. <mark>R</mark>iver <mark>eE</mark>nvironmental overlay zone. Disturbance areas must be replanted to meet the This will ensure a consistent approach to planting trees Because the <mark>PR</mark>iver <mark>eE</mark>nvironmental overlay zone

this situation, no additional planting is required the remaining vegetation already meets the landscaping standards of Table 475-1. <u>It is possible that after the thinning of trees and removal of non-native vegetation,</u>

33.475.040.B.2.<mark>Im</mark>

attachments to be used to maintain invasive vegetation. Equipment specifications will allow light weight lightweight equipment, such as a small utility vehicle with need to be available to demonstrate compliance with this exemption. native vegetation from taking over native vegetation. This exemption is intended to In the Central City maintenance of vegetation is needed to prevent invasive and non-

ground pressure, a typical human footprint has a ground pressure of 8.7 to 11.6 psi ground pressure of no more than 7.5 psi was chosen based on a typical <mark>light weight</mark> provided the wheel to ground pressure is no more than 7.5 psi. For a comparable augers for drilling planting holes are typical types of equipment that would be allowed efficient vegetation management without creating significant soil compaction. The This allowance permits light weight lightweight utility vehicle use that is needed for <mark>ightweight</mark> utility vehicle's wheel to ground pressure. Small riding lawn mowers and

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上 subarea 3 standard of Table 475-1. Removal or pruning of vegetation that is not listed as native on the Portland ocated outside and landward of the river setback is replanted to meet the meet the relevant subarea standards of Table 475-1, and temporary disturbance disturbance located within and riverward of the river setback is replanted to not be done with equipment other than handheld equipment. Temporary *Plant List* or trees 1.5 inches in diameter or smaller. The removal or pruning may

Removal and trimming of vegetation if the following are met:

- Ŧ All vegetation removal activities must be surrounded or protected to prevent erosion and sediment from leaving the site or negatively impacting resources on the site
- (2) The removal or trimming is conducted with handheld equipment or equipment with a wheel surface to ground pressure of no more than 7.5
- (3) standards of 33.475.220; and Any temporary disturbance area is planted to meet the landscaping
- 1 The vegetation that is proposed for removal or trimming is one of the following:
- Vegetation listed on the Nuisance Plant List;
- arborist; immediate danger, as determined by the City Forester or certificate Dead, dying or dangerous trees or portions of trees when they pose an
- exempt. View corridors are shown on Map 480 1; or Vegetation located within a designated view corridor. Tree removal is not
- is not exempt. Vegetation located within 10 feet of an existing structure. Tree remova
- <u>Б</u> Planting of native vegetation listed on the Portland Plant List when planted with no more than 7.5 psi; hand held equipment or equipment with a wheel surface-to-ground pressure of
- ₽<u>n</u>. Public street and sidewalk improvements meeting all of the following
- (1)Improvements must be within an existing public right-of-way used by truck or automobile traffic; and
- 2 Bureau of Transportation Engineering. Streets and sidewalks must not exceed the minimum width standards of the
- ₽<mark>0</mark> Groundwater monitoring wells constructed to the standards of the Oregon access is by foot only; Water Resources Department and water quality monitoring stations, where

33.475.040.B.2.p and q

standards of Table 475-1. However, when the exemption specifies that the temporary trees are required the applicant can replant the area with shrubs and seed with grasses and forbs; no <u>475-1 cannot be met if the applicant chooses to plant a medium or large canopy tree.</u> <u>zone requirements, temporary disturbances must be replanted to meet the landscaping</u> <u> Typically, when ground disturbance is exempt from the River Environmental overlay</u> <u>Therefore, for temporary disturbances required to be less than 100 square feet in size</u> isturbance be less than 100 square feet in size, the landscaping standards of Table

- Φ<mark>ρ</mark> ground surface is disturbed landward of top of bank, no ground is disturbed Installation of security cameras provided that no more than 100 square feet of conditions; and forb seed mix at a ratio of 30 pounds per acre restored to pre-construction area is planted with three shrubs per 100 square feet and seeded with a gras riverward of the top of bank, no native trees are not removed, and any disturbed
- þ<mark>g</mark> Utility service using a single utility pole or where no more than 100 square feet of standards of 33.475.220; <mark>disturbed landward of the top of bank of water bodies,</mark> and disturbance area is riverward of top of bank, no more than 100 square feet of ground <mark>grorund surface is disturbed landward of the top of bank,</mark> no ground is disturbed <u>planted with three shrubs per 100 square feet and seeded with a grass and forb</u> eed mix at a ratio of 30 pounds per acre planted to meet the landscaping
- ٩ there is no ground disturbed riverward of top of bank; and stormwater management facilities within the public right-of-way so long as Utilities installed above or below developed portions of the public right-of-way,
- and water quality monitoring stations when all of the following are met: Temporary site investigative work including soil tests, land surveys, groundwater

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ŧ The work is conducted using hand-held equipment or equipment with a wheel surface to ground pressure of no more than 7.5 psi

(2) The disturbance is temporary; and

(3) No trees are removed;

. Signs;

Installation of fencing in the following situations:

st.

- Fencing on an existing paved surface;
- 2 Fencing around stormwater facilities that meet the Stormwater Management Manual; or
- (ω) close off or control the use of illegal trails. The fence must be removed prevent access to hazardous material spill areas or contaminated sites, or to Temporary fencing to protect resource enhancement project planting areas, within five years;
- Ľ and Installation of signage provided no trees over six inches in diameter are removed;
- <mark>⊈</mark> trash does not include the removal or remediation of hazardous substances Removal of trash, provided that native vegetation is not removed or damaged This includes removal of trash from the river bed, or from the water. Removal of

33.475.040.C Removal or Remediation of Hazardous Substances

<u>other procedures and regulations of this Chapter, including the landscaping standards</u> actions are implemented. The requirements of 33.475.500 only apply in areas where the removal or remediation nust be met Outside of the removal or remediation action areas, all

<u>33.475.050 Property Line Adjustments</u>

'g' overlay zone is the one exception since it does not have specific use regulations. In the past, property line adjustments have been approved that resulted in eliminating create more than one river overlay zone on the site with the exception of the River river frontage. The proposed regulations ensure that property line adjustments do not Environmental overlay zone, which is intended to coincide with other river overlay ones. The river overlay zones each have a different purpose and use regulations. River

33.475.0<mark>65</mark>0 Supplemental Permit Application Requirements

updated from the Greenway Overlay Zones chapter, 33.440.345. exterior alteration is sought for <mark>sites</mark> with<mark>in</mark> River Overlay <mark>Zz</mark>ones. The list has been This section details the information required when a permit for development or

? chapter. choose to meet the regulations and procedural requirements of this chapter, or may must meet all other applicable regulations and procedural requirements of this chapter and Removal or Remediation of Hazardous Substances. The regulations in 33.475.500 apply to may not use 33.475.500. The applicant conducting the removal or remediation action may rights of way and actions not approved or selected by a state or federal cleanup authority under Oregon or federal cleanup law. The regulations in 33.475.500 only apply to the actions to remove or remediate hazardous substances that have been approved or selected choose to meet the regulations of 33.475.500 <mark>or all other applicable regulations of this</mark> of the site outside of the removal or remediation area(s) must meet all other applicable egulations and procedural requirements of this chapter. Remedial actions within City <u>portion(s) of the site where the removal or remediation actions will occur; other portions</u>

33.475.050 Property Line Adjustments

overlay zone, unless the second overlay is the River Environmental overlay zone Property Line Adjustments may not result in a property a property that is in more than one river

33.475.0650 Supplemental Permit Application Requirements

River Overlay Zones is reviewed for compliance with this chapter. The following information is required when a permit for development or exterior alteration in the

- ≥ Site Plan. A Five copies of a site plan are required and at a scale between one inch to 50 8.5 x 11 inches and no larger than 36 x 48 inches. The scale of the drawing must be contour lines at 2-foot vertical intervals; and <mark>entire site, be</mark> drawn accurately to scale, <mark>must show all property lines with dimensions</mark> oetween 1 inch orth arrow, and a date. Additional site plans that show only a portion of the site may also eet and one inch to ten feet. <mark>submitted. And All copies must</mark> be suitable for reproduction on paper no smaller than 50 feet, and 1 inchmust be provided Copies of the site plans must show the 10 feet. Ground elevations must be shown by വ
- and 2 must be submitted with permit application plans. Submission of the information in addition to the application requirements of 33.730.060. The information in paragraphs 1 Information required. The following information must be provided on the site plan in paragraph 3 is optional.
- An existing conditions site plan including:

<u>+</u>

- a. Location of all base zone and overlay zone lines on the site;
- σ Location of the top of bank, river setback line and the landscaping sub areas;
- 2 Outline of any existing development, including existing river bank stabilization mitigation areas, and trails and paths; treatments, stormwater treatment facilities, environmental enhancement or
- d. Extent of the 100-year floodplain;

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follows: Trees, including the location of the trunk and crown cover, must be identified as

12/28/2016

Commentary

- (1)The location, size and species of trees that are 1.5 = 3 inches or greater in indicated on the site plan; and removal will occur, or have crown cover that overlaps that area, must be diameter that are within the area where ground disturbance or vegetation
- 2 outside of and within 50 feet of the area where ground disturbance and The area of canopy crown cover and species composition of trees located vegetation removal will occur.
- ΞŦ. Vegetation, other than trees, within the area where ground disturbance or disturbance and vegetation removal will occur. Vegetation may be shown as the area of cover with a list and percent cover of plant species present. vegetation removal will occur and within 50 feet of the area where ground
- ğ or greater. less than 10 percent and at 5 foot vertical contours in areas of slopes 10 percent Topography shown by contour lines at 2 foot vertical contours in areas of slopes
- 2 A proposed development or exterior alterations plan including
- Outline of the proposed project area, including:
- (1)limits of the temporary and permanent disturbance areas, including areas to be left undisturbed; equipment staging and maneuvering areas, ingress and egress areas and
- (2) areas of ground disturbance, stockpiling or grading;
- outfalls and river bank stabilization treatments;
- (4) trails and paths;
- 5 areas of vegetation to be left undisturbed including the root protection zone for trees;
- (6) environmental enhancement or mitigation areas,
- o. Location and size (cubic yards) of fill to be placed within the 100-year floodplain;
- Location and description of all proposed erosion control measures;
- Location and description of all proposed stormwater management facilities;
- Location of proposed fencing, and identification of where the fencing is is temporary and permanent; <u>emporary fencing and where it is permanent fencing indicated with the fencing</u>

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Location of exterior lighting; and

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- ĝ be planted. A landscaping plan indicating the size, species, and location of all vegetation to
- ω Photographs of the site are not required but are encouraged to supplement the existing conditions site plan.

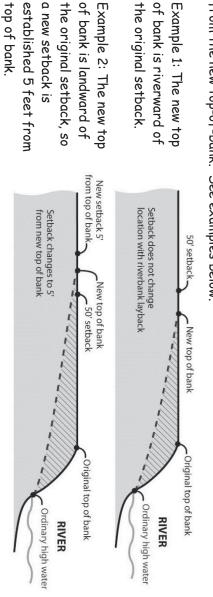
33.475.210 River Setback

Reach helps fulfill the stated goals and policies of the CC2035 Plan for the Willamette River. and activities in the city's most urban section of riverfront. An expanded setback in the Central recreation, natural resource protection and enhancement and other river related development setback is 50 feet from the top of bank of the Willamette River <mark>for</mark> in the Central Reach for also does not apply to the Greenway Trail, viewing areas located at designated viewpoints, view OAR 660-015-0005 and Statewide Planning Goal 15 require that a setback line be established to River Plan/Central Reach is to provide enough space within the <mark>Rr</mark>iver <mark>Ss</mark>etback for public corridors, hazardous material clean up or to natural resource enhancement or mitigation. buildings and structures that are river-dependent and river-related development. The setback be setback 25 feet from the top of bank. The setback does not apply to development such as related or water-dependent uses". The existing greenway regulations require that development keep structures separated from the river. However, the requirement does not apply to "waternon-river dependent and river-related uses and development. One of the main goals of the The

definition, Chapter 33.910, and measurements, Chapter 33.930. City staff plan to survey which is based on Light Detection and Ranging (LIDAR) data. It is intended that applicants use the top of bank as mapped by the City or provide a surveyed top of bank based on the <u>portions of this map and provide a refined map to the City Council</u> The setback is based on the location of the top of bank. A new top of bank map is included

protective of the riparian corridor may be appropriate. activation of and access to the Willamette River, a 50 foot setback is the maximum practical already encroaches into the riparian corridor, as well as other Central City goals that encourage protection of riparian corridors. However, due to the extent of existing development that setback that includes trails and other development does not meet the minimum requirement for protection of riparian corridors around rivers, streams and wetlands is 50 feet. A 50 foot Portland's Natural Resources Inventory, have documented that the absolute minimum area for for the Central City. In other reaches of the Willamette River a wider setback that is more Best available science, including Metro's Title 13 Nature in Neighborhoods Program and City of

remains in its existing location unless laying the bank back creates a top-of-bank that is from the new top-of-bank. landward of the existing <u>original</u> setback. In that situations the <u>new</u> setback is 5 feet landward C. When the river bank is laid back to reduce the steepness, the location of the setback See examples below.



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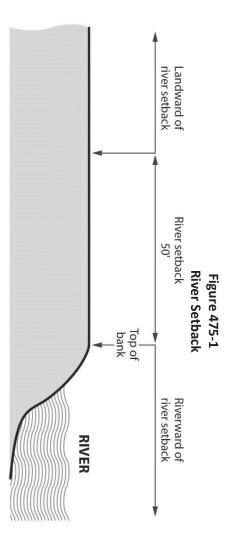
River General Overlay Zone

33.475.200 Use Regulations

There are no special use restrictions in the River General overlay zone

33.475.210 River Setback

- ≥ enhancement of natural vegetation and the opportunity for public access. In addition, OAR the Willamette River in the Central Reach by reserving space for the conservation and areas where the land is not being reserved for river-dependent and river-related uses. Purpose. The purpose of the river setback is to keep structures separated from the river in 660-015-0005 requires the establishment of a setback line. preservation and enhancement of the natural, scenic, historic and recreational qualities of Separating structures from the river facilitates protection, maintenance, restoration,
- dock is river-dependent, but the parking lot and offices are not. the River General overlay zone, a marine transportation terminal is a river-dependent dependent or river-related. The focus is not on the primary use of the land. For example in General. The requirements of this section focus on whether the development is riverprimary use, but not all development associated with the terminal is river-dependent. The
- ? according to the standard in 33.930.150, Measuring Top of Bank, and then recorded with original top of bank. When this occurs, a survey of the original top of bank line and new The river setback. The river setback extends from the top of the bank to a point 50 feet landward of the new top of bank line. See Figure 475-3 the County recorder. See Figure top of bank line must be submitted for verification that the top of bank has been measured top of bank shifting landward, the applicant may choose to measure the setback from the is determined as described in 33.910.030, Definitions, and 33.930.150, Measuring Top of landward of the top of the bank. See Figure 475-1. Top of bank is shown on Map 475-2, or Bank. Where alteration to the river bank carried out to meet 33.475.440.G results in the 475 2. In all cases the setback line must be at least 5 feet



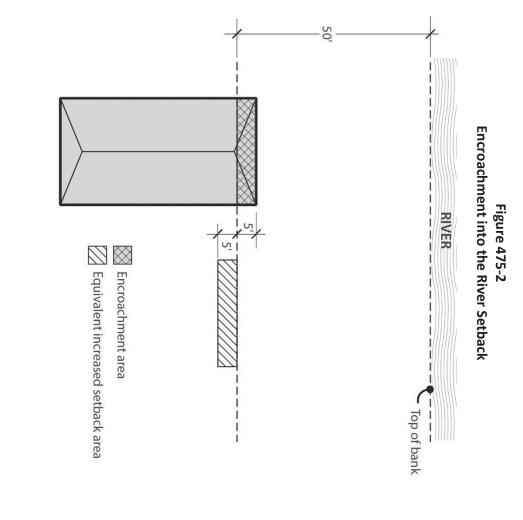
Amended Proposed Draft Central City 2035 Plan

Chapter 33.475, River Overlay Zones

33.475.210.D. River Setback Standards

33.475.210.E Encroachment into the setback.

and recreation and environmental protection and enhancement. can development encroach closer than 45 feet from top of bank. Staff does not square footage of the encroachment. The regulations also stipulate that at no point allows non-river-dependent and non-river-related development to encroach up to 5 feet retaining as much of a 50 foot setback as possible to provide space for public access recommend further encroachment into the river setback due to the importance of into the <mark>Rr</mark>iver <mark>Ss</mark>etback as long as the setback is enlarged an amount equal to the property owners in the Central City to expand and redevelop on site. This standard One of the main goals of the River Plan/Central Reach is to provide flexibility for



D. River setback standards.

- <u>+</u> dependent or river-related. excavations, and fills landward of the river setback are not required to be river-Development landward of the river setback. Development, exterior alterations,
- 2 approved through River Review and a Greenway Goal Exception. the river setback only if it meets 33.475.210.E, Encroachment into the setback, or is fills that are not river-dependent or river-related are allowed within or riverward of river-dependent or river-related. Development, exterior alterations, excavations, or alterations, excavations, and fills within or riverward of the river setback must be Development within or riverward of the river setback. Development, exterior
- Ē may encroach up to 5 feet into the river setback as long as an area equivalent in size to the Encroachment into the setback. Development that is not river-dependent or river-related 475-2. encroachment area is provided adjacent and contiguous to the setback area. See Figure

docks and marine passenger terminals can locate in the river setback. development associated with a marine passenger dock (and a marine passenger terminal) that's and queuing areas, security checkpoints, and machine shops associated with marine passenger As stated in 33.910.030, the river-related definition is updated to add certain uses and 33.475.215 <mark>vith a</mark> primary purpose <mark>is</mark> to load and unload passengers from marine vessels. Passenger waiting Marine Passenger Docks and Marine Passenger Terminals

setback, especially for seniors and those with special needs. If a larger waiting area is needed goals and objectives including the conservation and enhancement of natural, scenic and historic the loading and unloading of passengers are the queuing and security areas (and thus riverriver setback does not exceed 5,000 square feet. Staff looked at the queuing area at the development could be located in multiple stories as long as the building footprint within the associated with marine passenger docks within the river setback. Allowed river-related Section 33.475.215 limits building coverage to 5,000 square feet for river-related development river setback to essential river-related development will help address other Willamette River related). Some amount of passenger waiting area (with seating) is appropriate within the property owner to calculate the square footage limitation. The elements that are essential to passenger terminal and the square footage for other related uses provided by an interested Salmon Springs dock, the average square footages for similar uses associated with an aviation resources, recreation or public access. it can locate contiguous to the river setback. Limiting the footprint of this development in the

33.475.220.B. Required Landscaping

10% of project value being dedicated to coming more into conformance with existing zoning subject to Chapter 33.258. become more nonconforming. If a legal nonconforming development alters their site they are along the Willamette River to improve multiple ecosystem functions, increase habitat and codes. Landscaping is one option that counts towards becoming more conforming. nonconforming landscaping or may choose to come further into conformance; but may not provide other environmental benefits. Legally nonconforming development can maintain their New development must comply with this standard, which is intended to increase vegetation Alterations <u>costing</u> more than \$154,000 will result in require that

and has multiple and varied uses and activities including large scale events. in the center of Portland's urban center, serves the entire region as a recreational destination and future uses and activities at the park. plan for the park that includes improvements and landscaping that will accommodate the current 4. This requirement does not apply to Governor Tom McCall Waterfront Park because the park is There is a master

<u>letermined as part of a public planning process for that area</u> The landscaping requirement also does not apply to the mapped portion of the Eastbank <u>astbank Cresent is improved as a public beach and swimming area, landscaping will be</u> <u>rescent where there is a naturally occurring beach and the riverbank near the beach</u>

33.475.215 Marine Passenger Docks and Marine Passenger Terminals

- ₽ 7/26] section will be provided at the Planning and Sustainability Commission public hearing on Purpose. conservation, enhancement and maintenance of natural resources, recreation and public other goals of the Willamette River Greenway (Statewide Planning Goal 15) such as development associated with marine passenger docks in the river setback ensures that marine passenger dock, while river-related in nature, does not need to be fully locatec <u>within the river setback, however certain river-related development associated with a</u> esources, recreation or public access. The standard to limit the built area of river-related <u>vithin the river setback. In order to ensure that these particular types of river-relatec</u> provide opportunities for the conservation and enhancement of natural, scenic and histori levelopment do not overwhelm or dominate within the river setback, the total amount of etback can accommodate other river-related or river-dependent development and potprint allowed within the setback is limited. The limitation will ensure that the river ith river-dependent land or waterway use. scenic and historic values can be met. [NOTE: The purpose statement for this code River-related development provides goods or services that are directly associated River-related development is typically allowed
- Passenger waiting and queuing areas, security checkpoints, cold food storage, and machine shops associated with marine passenger docks for subregional travel and marine passenger terminals for regional travel are limited to <u>a</u> 5,000 square feet foot footprint within or riverward of the river setback.

33.475.220 Landscaping

are prohibited The following regulations apply in the River General overlay zone. Modifications and adjustments

≥ enjoyable public access to and along the Willamette River. and create visual diversity. The regulations are also intended to accommodate safe and multiple ecosystem functions, increase fish and wildlife habitat, provide shade, cool the air, Purpose. The landscaping regulations are intended to increase vegetation along the Willamette River. Adding a diversity of vegetation within the river setback will improve

B. Required landscaping.

- <u>-</u> 475-3, is are exempt from this Section. Governor Tom McCall Waterfront Park and the Eastbank Crescent, shown on Map
- 2 for all the subareas, or planting density 2 for subarea 1, planting density 3 for subarea density may occur on a site. For example, the applicant may choose planting density 1 planting density standard to apply within each subarea, and more than one planting three planting densities allowed within each subarea. The applicant may choose which Planting Density. Subareas are shown on Figure 475-3 and described below. There are with a trail or viewing area must be landscaped to meet Table 475-1, Landscaping of the river setback that is not covered with a building or other structure or developed Required landscaping for all other areas. For all other areas, land within and riverward 2, and planting density 1 for subarea 3.

must not be planted with the view corridors. extend from designated viewpoints should remain clear of vegetation that would block the <u>Resources Protection Plan. Shrubs are allowed if the shrubs won't block the view. Trees</u> ocal features of the view. Focal features are identified in the *Central City Scenic* Map 480 1 identifies the scenic viewpoints and view corridors. View corridors that

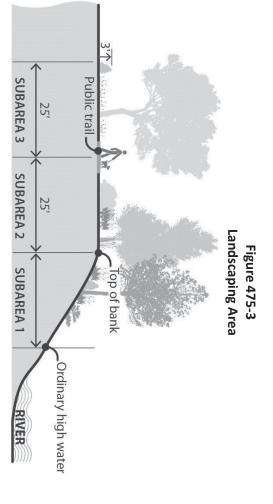
33.475.220.B.4.d.

automatically meet the landscaping requirements. Outside of the areas used for standards for enhancement and mitigation areas are met, the planting density will Resources enhancement areas and mitigation areas have planting standards that resource enhancement or mitigation, the landscaping standards must be met. require a higher density of tree planting than the landscaping requirements. When the

33.475.220.B.4.e. Exceptions

the removal or remediation areas, the landscaping standards must be met. actions are implemented do<mark>es</mark> not need to meet the landscaping standards. the property owners and other jurisdictions to determine the appropriate removal or remediation actions to clean up the site. On contaminated sites, the Oregon Department of Environmental Quality works with The areas where the removal or remediation Outside of

- a Subarea 1. Subarea 1 extends from the ordinary high water mark to the top of bank of the Willamette River.
- р Subarea 2. Subarea 2 extends from the top of bank to a point 25 feet landward of the top of bank of the Willamette River.
- ? <mark>and <u>to</u> a point 50 feet landward of the top of bank of the Willamette River.</mark> Subarea 3. Subarea 3 extends from a point 25 feet landward of the top of bank



- d. Vegetation planted to meet the resource enhancement standards of 33.475.440.G or the mitigation standards of 33.475.440.K may be counted towards meeting the landscaping standard.
- de. Exceptions.
- Ŧ Landscaping is not required within resource enhancement areas that meet the standards of 33.475.440.G;
- (2) of 33.475.440.K Landscaping is not required within mitigation areas that meet the standards
- (31) Landscaping is not required within portions of sites where contamination removal or remediation actions meet the standards of 33.475.500;
- (4<u>2</u>) Within utility easements trees and shrubs are not required but the area acre; must be seeded with a grass and forb seed mix at a ratio of 30 pounds per
- (<u>53</u>) Trees and shrubs are not required within a scenic view corridor shown on Map 480-1 but the area must be seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. Trees may not be planted within a scenic view corridor.; or

33.475.220.B.4.e.4 Exceptions

<u>survive. Rather than plant the armored bank, the equivalent size landscaped area can</u> from the river does provides wildlife habitat. of the Willamette River or within the river's floodplain provides riparian corridor <u>steep and armored with rip rap or where the rip rap is very thick, vegetation cannot</u> <u>within the river overlay zones.</u> <u>be provided elsewhere on site provided that area is outside of the river setback but</u> <u>Where the riverbank between the ordinary high water mark and the top of bank is</u> unctions and wildlife habitat, on-site landscaping located more than 100-200 feet While on-site landscaping located within 100-200 feet

<u>subarea 1 area that would have been landscaped may not be feasible. Therefore, there</u> <u>Most of the Central Reach sites that have river frontage are already developed</u> incorporating landscaping landward of the river setback at an equivalent size to the an option to pay a fee-in-lieu of landscaping.

- (64) If the area to be landscaped within subarea 1 has an average slope of 30 required landscaping may not count toward the total: one landscaped area may be provided to achieve the total, but other that would have been required to be landscaped in subarea 1. More than outside of subarea 1 to be landscaped must be equivalent in size to the area described below. If the landscaping will be provided on-site, the total area overlay zone, or the applicant may pay a revegetation fee-in-lieu as an area of the site that is <mark>landward</mark> of <mark>the river setback</mark> but within the River <u>armored with rip rap, or the area within subarea 1 has rip rap that is at leas</u>: percent or steeper (30 percent slope represents a rise over run ratio of four feet deep, then the required subarea 1 landscaping may be planted on .:3.3) and the area with an average slope of 30 percent or steeper is
- Calculation of required fee-in-lieu contributions. Applicants must Revegetation fee-in-lieu use and administration. The revegetation fee is Map 475-1. revegetation projects on public or private property within the same collected by Bureau of Development Services and is administered by the reach of the Willamette River as the site. The reaches are shown on Bureau of Environmental Services. The fees collected are used for
- and maintenance. and plant trees and plants will be adjusted annually as determined by groundcover plants as set out in the next bullet. The cost to purchase the Director of BES based on current market prices for materials, labor contribute the cost to purchase and plant trees, shrubs and
- ٠ Required fee-in-lieu contribution. The applicant must contribute the of 100 will be rounded up to the next multiple of 100. rounded up to the next multiple of \$10. The minimum area to be used ground cover plants per 100 square feet of required planting area <u>cost to purchase, plant and maintain one tree, three shrubs and four</u> before a building permit will be issued. The fee calculation will be n this calculation is 100 square feet. Calculations that are not a multiple

Table 475-1

on the size at maturity of the tree species. are consistent across the entire setback, only the density of trees may vary depending total area to be planted is greater than 600 square feet. The shrub and grass densities subarea. However, applicants are not required to choose a mix of densities, unless the Applicants may choose to install a mix of tree sizes, and planting densities, within each The intent of Table 475-1 is to allow a mix of tree types, densities and heights

public. In addition, a diversity of trees will create unique experiences along the river for the Planting a mix of tree types, densities and heights will provide a diversity of habitat.

need to plant: Within a 600 square foot area, to meet the diversity requirement the applicant would

- 3 small trees (300 sq. ft.) and 1 large tree (300 sq. ft.);
- 1 small (100 sq. ft.), 1 medium (200 sq. ft.) and 1 large (300 sq. ft.); or
- 2 small (200 sq. ft.) and 2 medium (400 sq. ft.).

1,200 sq. ft. there is a wide mix of sizes that could be used to meet the requirement. It is up to the applicant to show how they are meeting the planting density. As the total landscaping area gets large<mark>r</mark>, a wider mix of tree sizes can be chosen. For

sources, or nursery information such as cut sheets. spread, and growth rate. This information can come from published sources, internet provide an objective source of information about the tree's mature height, crown of a tree not listed in the "Portland Tree and Landscaping Manual"; the applicant will include the size categories recognized for many trees. To determine the size category size at maturity. The "Portland Tree and Landscaping Manual" suggested plant lists canopy types are categorized as small, medium, or large based on the estimated canopy Title 11 , <mark>Trees, code section</mark> 11.60.020.*C*. Canopy includes canopy size categor<mark>yies</mark>. Tree

incorporate the estimated height and crown spread of a mature specimen and the tree species' growth rate: The canopy size category is calculated according to the following formulas, which

- <u>--</u> factor from 40 to 90, and Large trees have a canopy factor greater than 90; Small trees have a canopy factor of less than 40, Medium trees have a canopy
- \sim Canopy factor = (Mature height of tree) × (Mature canopy spread) × (Growth rate factor) × 0.01;
- ω and 1 for slow-growing trees The growth rate factor is 3 for fast-growing trees, 2 for medium growing trees

]			
	Land	Table 475-1 Landscaping Planting Density	
Subarea	Planting Density 1:	Planting Density 2:	Planting Density 3:
	Small Trees[1]	Medium Trees[1]	Large Trees[1]
g	One tree, three shrubs, and	One tree, six shrubs, and eight	One tree, nine shrubs, and 12
	four other ground cover	other ground cover plants	other ground cover plants
dsca bare	plants must be planted for every 100 square feet. Trees	must be planted for every 200 square feet. Trees may be	must be planted for every 300 square feet. Trees may be
	may be clustered. All plants	clustered. All plants must be	clustered. All plants must be
	must be native.	native.	native.
	One tree and one of the	One tree and one of the	One tree and one of the
	following two options for	following two options for	following two options for every
	every 100 square feet. Trees	every 200 square feet. Trees	300 square feet. Trees must
	must be separated from	must be separated from other	be separated from other trees
	other trees by at least 20	trees by at least 20 feet on	by at least 20 feet on center.
	feet on center. Shrub species	center. Shrub species must	3 fact in backton must not exceed
	height at maturity.	maturity.	C
ndsca ubare	Ontion 1. Three shrubs and	Ontion 1. Six shruhs and	Option 1: Three Nine shrubs
	seeded with a grass and forb	seeded with a grass and forb	forb seed mix at a ratio of 30
	seed mix at a ratio of 30	seed mix at a ratio of 30	pounds per acre; or
			Option 2: Nine shruhe and 12
	Option 2: Three shrub <mark>s</mark> and	Option 2: Six shrub <mark>s</mark> and eight	other groundcover plants.
	four other groundcover plants.	other groundcover plants.	
	One tree for every 100	One tree for every 200 square	One tree for every 300 square
	square feet and seeded with	feet and seeded with a grass	feet and seeded with a grass
	a grass and forb seed mix at	and forb seed mix at a ratio of	and forb seed mix at a ratio of
	a ratio of 30 pounds per acre.	30 pounds per acre. Trees	30 pounds per acre. Trees
	Trees must be separated	must be separated from other	must be separated from other
sca bare	from other trees by at least	trees by at least 20 feet on	trees by at least 20 feet on
	20 reet on center. Snrubs or	center. Shrubs or other	center. Shrubs or other ground
	required, however if they are	required. however if they are	however if they are included
	included they must meet the	included they must meet the	they must meet the standards
	standards for Landscaping	standards for Landscaping	for Landscaping Subarea 2.
	Subarea 2.	Subarea 2.	
[1]Tree size	[1]Tree size <mark>s</mark> is based on Title 11.60.020.C Canopy Size	anopy Size	

[T] II EE C iopy size

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33.475.220.C. Landscaped area site preparation.

are conducive to plant survival over time when the planting of vegetation is required. materials and debris. This standard is intended to help ensure that the site conditions The urban riverfront in the Central Reach has been highly altered with hardscaped

be removed. Erosion control measures, which include<mark>s</mark> existing riverbank rip rap, do<mark>es</mark>-not need to

33.475.220.D.

33.430. This subsection details plant requirements. It is based on planting requirements in

planted directly into rip rap. Staff notes that willow and tree cuttings and branches cut off existing trees, can be

- ? following standards must be met: Landscaped area site preparation. Before installing the required landscaping, the
- <u>+</u> within and riverward of the river setback. All prohibited and nuisance plants listed on the Portland Plant List must be removed
- 2 of plant materials or soil cells wrapped in biodegradable fabrics. and bioengineered structures. Examples of bioengineered structures include bundles conforming structures, erosion control measures, flood control facilities, large wood, removed except for river-dependent and river-related structures, legal non-All structures and debris located within and riverward of the river setback must be
- ω one of the following: may be placed in planting wells. The composition of the growing medium must meet a rise over run ratio of $\frac{1+5}{1:3.3}$, and is armored with rip rap, the growing medium of <u>30 percent or less steep 20 percent of steeper slope (20<u>30</u> percent slope represents</u> inches of growing medium. If the planting area is in subarea 1, has a an average slope If the area to be planted is not currently vegetated, the soil must be amended with 12
- <u>а</u> For all planting areas located outside of the flood hazard area, the growing percent plant material compost (by volume); or medium must be a blend of loamy soil, sand, and compost that is 30 to 40
- œ support the establishment and growth of vegetation, and is heavier than water. architect or civil engineer must certify that the growing medium is adequate to must be a blend of loamy soil, sand, small gravels and compost. A landscape For all planting areas located within the flood hazard area, the growing medium
- 4 Placement of the growing medium is not allowed when the ground is frozen or saturated; and
- ъ or removed after permanent stabilization measures are functional or within 3 years, measures are functional. Temporary erosion control measures must be biodegradable Temporary erosion control measures are required until permanent stabilization whichever is sooner.
- ₽. sizes, three different shrub species, and four different groundcover species must be used. equivalent. For planting areas over 600 square feet, at least two different tree species and of one gallon size or bareroot. All other species must be a minimum of four-inch pots or unless they are oak or madrone, which may be one gallon size. Shrubs must be a minimum Plant requirements. Trees must be a minimum ½-inch caliper, bareroot, or live stakes,

33.475.230 Exterior Lighting

and to support river dependent uses. These standards are also proposed in the South continue providing for public safety in public parks and along trails and rights of way, encroachment into habitat areas. The standards and exemptions are also intended to impacts of exterior lighting on humans, fish and wildlife, including glare, light spill, and 33.253.E.5.h) Waterfront Subdistrict under the River General (g) overlay zone regulations The standards are intended to minimize the adverse health, safety, and livability

birds, pollinators, and other wildlife and their habitat. policies calling for energy efficiency, reducing light pollution and glare, and reducing light fixtures that apply throughout the overlay zone. lighting on land proximate to the Willamette River. These standards restrict the light-related hazards to birds. This section also includes standards for exterior location, spacing, brightness and spectral character of lighting to reduce impacts on This section includes general standards for directionality and shielding of exterior These standards will support

33.475.230 Exterior Lighting

- A. Purpose. The standards for exterior lighting are intended to:
- negative impacts on fish and wildlife and their habitats; Avoid or minimize light glare and light spill from artificial lighting and associated
- Reduce light pollution and glare impacts on residential developments,
- Maintain public safety and security along the Greenway trail, in parks, along public rights-of-way, and on piers and gangways; and
- Provide flexibility for river dependent operations associated with docks
- General standards. The following standards apply to all exterior lights located within the River General (g*) overlay zone.
- <u>+</u> Exterior lights must not project light upward or to the side of the fixture; and
- 2 The top and sides of all exterior light fixtures must be shielded with 100 percent opaque materials.
- ? of-way are exempt from the standard in this Subsection Subsubparagraph, but must mee Additional standards for areas near the Willamette River. The following standards apply the standards in Subparagraph B. permanent exterior lights located within 25 feet landward of the river setback. to all permanent exterior lights located within and riverward of the river setback, and all ghts within Governor Tom McCall Waterfront Park, and exterior lights within public rights-
- <u>+</u> devel Exterior lights are allowed only if the lights are for the as followings use or iopment:
- <u>а</u> In property owned or managed by the City of Portland Parks and Recreation Park and Open Area uses
- In a public right-of-way, The major public trail;
- 0 When associated with a major public trail of <u>A</u>public viewing area; or
- d When associated with a rRiver-dependent or river-related development
- 2 setback at least 30 feet from any other stream, drainageway, wetland or water body; top of bank of the Willamette River except for docks and gangways, and must be Structures that support exterior light fixtures must be setback at least 5 feet from the
- ω Structures that support exterior light fixtures must be spaced at least 25 feet apart;
- 4 Lamps must fall below 3000K or within an S/P ratio range of 1- 1.2; and
- ы Exterior lights must not project directly into the Willamette River.

33.475.240 Public Viewpoints

Protection Plan. specifically sites that have viewpoints identified on Map 480-1 of the Scenic Resources achieve scenic, natural and other public appreciation of this significant resource, the river. The provision allows public viewpoints within the river setback to help and maintaining the natural, scenic, historical and recreational qualities of lands along in 33.440. It will now apply to sites that are within the River Overlay $\frac{2}{2}$ ones boundary, consistent with state and local policies. This standard is similar to one that is in effect Statewide Planning Goal 15 Willamette River Greenway calls for protecting, enhancing

33.475.250 Nonconforming Uses and Development

changes to the Zoning Code. time it was developed but do<mark>es</mark> not meet the current regulations because of subsequent <u>the site</u> required landscaping. Such development can remain as long as there are no changes to Nonconforming uses and development exist where a site met all the regulations at the For example, many parking lots were built before Portland

structures like decks or bay windows are not allowed. These structures would bring the <u> Chapter 33.440, Greenway Overlay Zones, includes a section that addresses</u> code regulations. nonconforming development further out of compliance with river setback regulations. within or riverward of the river setback. This means that overhanging or cantilever Central Reach's river setback. The language allows nonconforming <mark>uses and</mark> development right, consistent with Statewide Planning Goal 15, Willamette River, and other zoning <u>Development may change to allow river-dependent and river-related development by</u> to continue. Expansion of the <mark>use or</mark> development may occur provided that it is not replicate this standard in 33.475 for nonconforming uses and development in the nonconforming uses and development within the greenway setback. Staff proposes to

33.475.05260 Property Line Adjustments

zones viver frontage. The proposed regulations ensure that property line adjustments do not in the past, property line adjustments have been approved that resulted in eliminating nvironmental overlay zone, which is intended to coincide with other river overlay reate more than one river overlay zone on the site with the exception of the River The river overlay zones each have a different purpose and set of regulations

33.475.240 Public Viewpoints

- ≥ economic qualities of the Greenway. **Purpose.** Public viewpoints providing stopping places along the Greenway $\frac{tT}{T}$ rail and the Willamette River where the public can view and enjoy the natural, scenic, recreational and
- Chapter 33.272, Major Public Trails. The Trails Maintenance and Liability section is the Use of Trail, Hours of Use, Trespass and Trail Maintenance and Liability sections of required to provide a public viewpoint. The viewpoint design is addressed through the Viewpoint Requirement. All sites designated with a viewpoint symbol on Map 480-1 are applicable when the viewpoint is located along the physically contiguous trail segment. Central City Fundamental Design Guidelines. In addition, the viewpoint must comply with

33.475.250 Nonconforming Uses and Development

river-related. regulations and reviews of Chapter 33.258, Nonconforming Situations. The additional regulations stated Nonconforming uses and development in the River General (g*) overlay zone are subject to the pelow and apply to development within or riverward of the river setback that is not river-dependent or

- A. The development may continue.
- в. by right. The development may be changed to an allowed river-dependent or river-related development
- ? existing building. If outdoors, it may not be changed to another nonconforming development. The development may be changed to another nonconforming development if within the
- D. The development may be expanded, but not within or riverward of the river setback. Expansion includes adding additional floor area.

33.475.260 Property Line Adjustments

<u>prohibited</u> <u>overlay zone, unless the second overlay is the River Environmental overlay zone. Adjustments are</u> All property line adjustments may not result in a property a property that is in more than one rive

33.475.400 River Environmental Overlay Zone Purpose

Resources Inventory (2016). The River Environmental overlay zone does not apply to ranked natural resource areas in the Willamette River. The location, extent and specifically to address the protection and conservation of remaining high and medium feet from top of bank. low-ranked natural resources, for example developed floodplains located more than 50 habitat functions in the Central Reach are identified in the Central City Natural relative condition of natural resources that provide riparian corridors and wildlife The River Environmental overlay zone is a new overlay that has been created

if there are no practicable alternatives that will avoid adversely affecting the overlay zone. When impacts cannot be avoided, mitigation is required. Development in the <mark>eE</mark>nvironmental <mark>eC</mark>onservation zone than the <mark>eE</mark>nvironmental <mark>pP</mark>rotection zone. resource—in that sense the ARiver eEnvironmental overlay zone will function more like the overlay zone will not be precluded if proposed development meets the standards or development on the natural resources and functional values contained within the The primary focus of the River Environmental overlay zone is to limit the impacts from

33.475.420 Review Procedures

standards that apply to specific development and exterior alterations. some differences specific to the Central Reach. One of the significant differences is after the standards listed in Chapter 33.430, Environmental Zones; however, there are development will require to go through a land use review. The standards are modelled development and exterior alteration allowed if it meets standards, and requires some that the Environmental zones included general standards as well as specific standards types of development and activity to be exempt from regulation, allows some The River Environmental <mark>Oo</mark>verlay <mark>Zz</mark>one does not include general standards; only The River Environmental overlay zone is <u>includes</u> a multi-track system that allows some

River Environmental Overlay Zone

33.475.400 Use Regulation

also apply within the River Environmental Ooverlay Zone. There are no special use restrictions associated specifically with the River Environmental Ooverlay <mark>Zz</mark>one. However, any use restrictions that apply as a result of an accompanying River Overlay zone

33.475.410 Environmental Report

within the study area. Functional values are the benefits provided by resources. The values for each relative condition of natural resource features and describes the functional values they provide resource site are described in the inventory section of the report. Reach Natural Resources Protection Plan (2016). The report identifies the type, location, extent and The application of the River Environmental overlay zone is based on a detailed study titled Central

33.475.420 Review Procedures

Development and exterior alterations will be reviewed through one of the following tracks:

- ≥ determined as part of the building permit or development permit application process. The the proposal must be approved through River Review. Compliance with the standards is through the discretionary River Review process. When there are no applicable standards, standards, the applicant may choose to meet the objective standards of this section or go standards may be approved through River Review. When a proposal can meet the and functional values. Adjustments to the standards are prohibited. Modification of the limitations on disturbance, including tree removal, and minimizing impacts on resources standards are intended to encourage sensitive development while providing clear trails, viewpoints, resource enhancement, exterior lights, and site investigative work. The within the River Environmental overlay zone if the proposal meets certain standards. Standards. Several specific types of development and exterior alterations are allowed Standards are provided for bulkheads, rights-of-way, utility lines, stormwater outfalls, standards are listed in 33.475.440.
- exterior alteration either does not meet the River Environmental development standards subject to the River Environmental Ooverlay Zzone regulations, and the development or Review. River Review is required when the proposed development or exterior alteration is Review. or there are no River Environmental development standards that apply to the proposal. The process and approval criteria for River Review can be found in Chapter 33.865, River

33.475.430 Prohibitions

activities negatively impact protection and enhancement of high and medium ranked debris within the River Environmental overlay zone area. All of these materials and natural resources. planting and propagation of identified nuisance plants and the dumping of trash or yard This section prohibits the packaging and storage of most hazardous substances, the

33.475.440 Standards

a wetland. Tree removal is limited and mitigation is always required. occur and limit how close the development or alteration can be to the river, a stream or that can be readily mitigated. The standards limit the amount of disturbance that can and levels of development and alteration allowed are generally low-impact activities River Environmental overlay zone without requiring a discretionary review. The types As previously mentioned, some development and alteration will be allowed within the

within the River Environmental overlay zone without further discretionary review. greenway development, represent the extent of the activities that will be allowed trees. These categories, which are necessary or desired infrastructure or allowed corridors, resource enhancement projects, site investigative work, and the removal of Mitigation and tree replacement will be required for these activities installation of utility lines and stormwater outfalls, public trails and viewing areas, view Development standards are proposed for the installation of railroad tracks, the

33.475.440.A Standards for rail rights-of-way

necessary for track operations. gauge rail (4 feet 8 inches) with added space for ballast and any equipment that may be road track in the Central Reach. The width is intended to accommodate standard discussions with BDS staff who have reviewed the installation and extension of rail The width of corridor allowed for the development of a rail right-of-way is based on

33.475.440.B-C Standards for utility lines and stormwater outfalls

or stormwater outfall in the Environmental Conservation and Protection Oo verlay zones The standards in these paragraphs mirror standards for the installation of a utility line

33.475.430 Prohibitions

The following are prohibited within the River Environmental $\frac{\Theta_0}{\Theta_0}$ verlay $\frac{Z_2}{Z_0}$ one:

- ≥ The packaging or storage of hazardous substances, except as follows:
- <u>+</u> of hazardous substances are packaged and distributed in a form intended or suitable Use of consumer quantities of hazardous substances is allowed. Consumer quantities personal use; and for sale through retail sale outlets for consumption by individuals for purposes of
- 2. Marine vessel fueling stations are allowed.
- Β The planting or propagation of any plant listed on the Nuisance Plant List; or
- **C.** Dumping of trash or yard debris.

33.475.440 Development Standards

met. Modification of any of these standards requires approval through River Review exterior alterations in the River Environmental overlay zone. All of the applicable standards must be Unless exempted by 33.475.040.B.2., the standards in this Section apply to development and

- ≥ Standards for rail right-of-way. The following standards apply to rail rights-of-way:
- <u>+</u> a corridor no more than 20 feet wide. No disturbance is allowed outside of the 20-Disturbance associated with the development of a rail right-of-way must occur within foot-wide corridor;
- 2 body; channel, or within 30 feet of the top of bank of any other stream, wetland or water Disturbance associated with the rail corridor or development of the rail corridor must not occur riverward of the top of bank of the Willamette River, within the river
- 3. Tree removal is allowed as specified in Subsection J.; and
- 4. Mitigation is required as specified in Subsection K.
- Standards for utility lines. The following standards apply to new and upgrades to existing or new utility lines, and upgrades of existing utility lines utility lines, including stormwater conveyance facilities, and private connections to existing
- <u>+</u> utility line must be no more than 10 feet wide The disturbance area for the installation of a private connection to an existing or new
- utility lines, including utility trenching, must be no more than 15 feet wide; The disturbance area for the installation of a new utility line or upgrades to existing
- 32. stream, wetland, or other water body; River, within the river channel, or within 30 feet of the top of bank of any other The disturbance area associated with the installation of a utility line or a private connection to a utility line must not <u>be</u> riverward of the top of bank of the Willamette
- 43. Tree removal is allowed as specified in Subsection J.;

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Commentary

- <u>54</u> landscaping standards of 33.475.220; and he subarea 3 standard of Table 475-1. Trees may not be planted within a view eplanted to meet the relevant subarea standards of Table 475-1, and temporary <u>Temporary disturbance located within and riverward of the river setback must be</u> <u>orridor show on Map 480-1 Disturbance areas must be planted to meet the</u> sturbance located outside and landward of the river setback is replanted to mee
- <mark>6</mark>5. standards of this section, it is exempt from Paragraphs B.1., B.2., and B.3 that has already been approved as a permanent disturbance area, or allowed by Exemption. If a proposed utility line or upgrade to a utility line runs through an area
- ? stormwater outfalls: Standards for stormwater outfalls. The following standards apply to the installation of
- <u>+</u> must occur within an area that no more than 15 feet wide; Disturbance associated with the installation or replacement of a stormwater outfall
- 2 any point; between the stormwater source and the water body must not exceed 15 percent at When constructed open channels or vegetated swales are proposed, the slope
- ω square yard. Detailed specifications for installing live stakes are found in the Erosion one-half inch in diameter. Stakes must be installed at a density of three stakes per If an outfall riprap pad is used it must be planted with live stakes of native plant stock, Control Manual;
- 4. Tree removal is allowed as specified in Subsection J.; and
- 5. Mitigation is required as specified in Subsection K.
- ₽. four single piles or two multiple-pile dolphins for each 100 feet of shoreline: Standards for placement of piles. The following standards apply to the placement of up to
- <u>+</u> The placement of the piles or dolphins must be associated with a river-dependent or river-related use;
- 2 the Central Reach. The boundaries of the Central Reach are shown on Map 475-1; and An equal number of piles or dolphins as are placed in the river environmental overlay zone, plus one, must be removed from the river environmental overlay zone within
- ω If the applicant does not own the property where the pile or dolphin removal will necessary removal. occur, they must have an easement or deed restriction sufficient to allow the

33.475.440.E. Standards for Trails

impacts of the trails, and associated public use on the natural resource functions of the riparian corridor. public trails to locate within the River Environmental overlay zone, but limit the construction of the trail is required. These standards are intended to allow for major Zoning Maps. During site development, a trail easement dedication and potentially the In the Central City, major public trails are shown as a star symbol on the Official

natural resource may warrant a different standard for stream crossings ooth sides of the stream. need to connect with the existing. In the North Reach and South Reach, the <u>conditions and circumstances of the Greenway Trail, zoning, land use and existing</u> he Central City. Much of the Greenway Trail is already constructed and new segments <u>his section which require disturbance area to be setback 30 feet from a stream. The</u> <u>'f the trail crosses a stream it needs to set back 10 feet from the top-of-bank on</u> ompletion of a contiguous Greenway Trail along both sides of the Willamette River in eason for the allowance for trails to be located closer to streams is to facilitate This is different than standards for other development in

33.475.440.EF-FG Standards for Viewing Areas and View Corridors

cover. zone. view corridors that are shown on Map 480-1 and in the River Environmental overlay overlay zones. The area where vegetation is removed must be revegetated with ground These standards allow for the construction and maintenance of public viewing areas and <u>partially block the view. Shrubs can be planted along with the ground cover in the view</u> orridors Trees (6–12 inches in diameter), including native trees, may be removed in the s Trees cannot be planted in view corridors because they grow and block or

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- Ξ public trail and alterations to an existing major public trail: Standards for trails. The following standards apply to the construction of a new major
- <u>+</u> Willamette River, <u>or</u> a stream<mark>, a wetland or other water body</mark>; The trail must be setback at least 10 feet, and disturbance associated with construction of the trail must be setback at least 5 feet, from the top of bank of the
- 2 least 30 feet from the top of bank of a wetland or other water body. The trail and disturbance associated with construction of the trail must be setback at
- 3. The total width of the trail must be no more than 16 feet;
- 4 The total width of disturbance area must be no more than 24 feet,
- 5. Tree removal is allowed as specified in Subsection J; and
- б. disturbance located outside and landward of the river setback is replanted to meet Temporary disturbance located within and riverward of the river setback must be the landscaping planting standards of 33.475.220 eplanted to meet the relevant subarea standards of Table 475-1, and temporary he subarea 3 standard of Table 475-1. Trees may not be planted within a view orridor show on Map <u>480-1. Temporary disturbance areas must be planted to meet</u>
- ¹ Standards for public viewing areas. The following standards apply to the construction of a public viewing area:
- <u>+</u> The viewing area must be associated with a viewpoint shown on Map 480-1;
- 2 The total disturbance area must be no more than 800 square feet in area;
- ω than 500 square feet in area; The permanent disturbance area associated with the viewing area must not be more
- 3.4. The total disturbance area must not be located below the top-of-bank of the Willamette River, stream, or any other water body, and must not be located within 30 feet of a wetland;
- 4:5. Tree removal is allowed as specified in Subsection J.; and
- <u>5</u>.6 <u>disturbance located outside and landward of the river setback is replanted to meet</u> Temporary disturbance located within and riverward of the river setback must be the landscaping planting standards of 33.475.220 the subarea 3 standard of Table 475-1. Trees may not be planted within a view eplanted to meet the relevant subarea standards of Table 475-1, and temporary orridor show on Map 480-1. Temporary disturbance areas must be planted to meet
- <mark>ال</mark> Standards for view corridors. The following are standards apply to establishment or maintenance of view corridors shown on Map 480-1.
- 1. Tree removal is allowed as specified in Subsection J.; and
- 2 Temporary disturbance must be replanted with three shrubs per 100 square feet and disturbance areas must be landscaped to meet the standards of 33.475.220 <u>eeded with a grass and forb seed mix at a ratio of 30 pounds per acre. Temporary</u>

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33.475.430.<mark>GH</mark> Standards for resource enhancement

vegetation rather than rock armoring, which has little to no habitat value. than a steep bank. The standards also require that the bank be stabilized with the enhancement project because a shallow bank provides better resource function These standards are intended to ensure that the river bank is less steep than before

overlay zone and the area disturbed is replanted with native vegetation. Resource of the ground as long as there is no net increase in soil within the River Environmental in many cases provides high quality natural resource function. The removal of native and an improvement in the quantity or quality of resources. Mature native vegetation enhancement projects, by definition, must result in a net increase in functional value For projects that occur landward of the top of bank, the standards allow disturbance or quantity of resource. <u>vegetation will result in a net increase in functional value and an improvement in quality</u> vegetation is limited so that staff can evaluate whether or not the removal of

33.475.440.HI Standards for site investigative work

<u>nedium or large size tree.</u> vith grasses and forbs; no trees are required <u>andscaping standards of Table 475-1 cannot be met if the applicant chooses to plant a</u> he landscaping standards of Table 475-1. However, when the exemption specifies <u>Typically, when there is ground disturbance exempt from the River Environmental</u> hat the temporary disturbance be less than 100 square feet in size, then the verlay zone requirements, then temporary disturbances must be replanted to meet <u>han 100 square feet in size the applicant can replant the area with shrubs and seec</u> Therefore, for temporary disturbances required to be less

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GH. Standards for resource enhancement. The following standards apply to resource enhancement projects:

- <u>+</u> mark of any river, stream, wetland or other water body; There must be no excavation or fill, or construction activity, below ordinary high water
- 2 The riverbank may be re-graded if the slope after grading is shallower than the slope represents a rise to run ratio equal to 1:5); prior to grading and the slope is no greater than 20 percent (20 percent slope
- ω ordinary high water mark of any water body except as required surrounding outfalls; Rock armoring must not be used on the surface between the top of bank and the
- 4 fabrics; structures include bundles of plant materials or soil cells wrapped in biodegradable reduce localized erosion and improve bank stabilization. Examples of bioengineered The placement of large wood and bioengineered structures on the bank is allowed to
- ъ No structures are proposed landward of the top of bank except public trails that meet 33.475.440.E; <u>the regulations of 33.475.440.E or public viewing areas that meet the regulations of</u>
- б. All nuisance plants listed on the Portland Plant List must be removed;
- 7. Tree removal is allowed as specified in Subsection J; and
- 7.8. planted to meet the landscaping planting standards of 33.475.220 the subarea 3 standard of Table 475-1. Trees may not be planted within a view disturbance located outside and landward of the river setback is replanted to meet Temporary disturbance located within and riverward of the river setback must be <u>orridor show on Map 480-1. Areas where ground disturbance has occurred must be</u> eplanted to meet the relevant subarea standards of Table 475-1, and temporary
- <mark>.</mark>Ξ Standards for site investigative work. The following standards apply to site investigative groundwater and water quality monitoring stations. work. Site investigative work includes soil tests and test pits, land surveys, and
- <u>+</u> No more than 100 square feet of disturbance is allowed per test pit or monitoring <u>station site investigative work activity</u>
- 2 Disturbance associated with site investigative work must be temporary;
- 3. No trees are removed; and
- 4 standards of 33.475.220 ground disturbance has occurred must be planted to meet the landscaping planting <u>seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. Areas where</u> Temporary disturbance must be planted with three shrubs per 100 square feet and

33.475.440.1. Standards for development in a City of Portland park

of additional permanent disturbance area. The standards also limit tree removal and will occur within the River Environmental overlay zone to a total of 1,800 square feet require mitigation. memorials, kiosk<mark>s</mark>, etc. benches, picnic tables, drinking fountains, bicycle racks, trash cans, playgrounds, amenities that Parks envisions being installed without river review include park to install park amenities in City parks located in the Central Reach. The types of These standards allow the City of Portland <mark>Bureau of</mark> Parks and Recreation department The standards limit the amount of additional disturbance that

33.475.440.<mark>JK</mark> Standards for tree removal or pruning of vegetation

with native trees. This is a change from existing allowances for the rest of the city as nuisance or prohibited on the Portland Plant List. These trees must be replaced trees may be removed and replacement is not required. found in 33.430, Environmental Overlay Zones. Currently, nuisance and prohibited These standards allow the removal of non-native trees, including those that are listed

to 12 inches in diameter. The removal of trees is limited to the areas within which the in diameter development or activity will occur and replacement is required for trees over 6 inches Under certain circumstances, the standards also allow the removal of native trees up

that are intended to be protected. Trees may not be replaced within the scenic overlay zones. Trees grow and block views

- iţ, Standards for other development in a City of Portland park. The following standards apply standards contained in this Section. to development in a City of Portland park that is not subject to another set of development
- <u>+</u> The total disturbance area must not be more than 2,200 square feet;
- 2 streams, or other water body, or located within 30 feet of a wetland; Disturbance areas must not be located below the top-of-bank of the Willamette River,

4.3. Tree removal is allowed as specified in Subsection J.; and

<u>5-4.</u> Mitigation is required as specified in Subsection K.

- Ŀ. apply to the removal or pruning of vegetation trees 6 inches or greater in diameter: Standards for removal or pruning of vegetation tree removal. The following standards
- and sediment from leaving the site or negatively impacting resources on the site; All vegetation removal activities must be surrounded or protected to prevent erosion
- 2 with a wheel surface-to-ground pressure of no more than 7.5 psi; The removal or pruning must be conducted with handheld equipment or equipment
- ω Temporary disturbance located within and riverward of the river setback must be the subarea 3 standard of Table 475-1; disturbance located outside and landward of the river setback is replanted to meet replanted to meet the relevant subarea standards of Table 475-1, and temporary
- 4 The vegetation that is removed or pruned is limited to the following
- a. Vegetation listed on the Nuisance Plant List;
- b. and will threaten the health of other trees; sections of wood more than 12 inches in diameter must be placed in the Dead, dying or dangerous trees or portions of trees when they pose an unless the City Forester authorizes the removal because the wood is diseased environmental overlay zone of the ownership within which the wood was cut immediate danger, as determined by the City Forester or certified arborist. All
- Vegetation that exceeds the height restriction of a view corridor shown on Map 480-2
- <u>+</u> 0. Trees that are not native trees on the Portland Plant List may be removed with hand-held equipment or equipment with a wheel surface to ground pressure of no more than 7.5 psi; <u>or</u>
- <u>2.е.</u> Generally, Madrone, Garry Oak or Pacific Yew that are less than 6 inches in exterior improvements approved under the standards of this section as follows: be <u>removed</u> if the removedal or pruneding is in conjunction with development or except native trees 6 inches or greater but less than 12 inches in diameter may <u>diameter, or other</u> native trees on the *Portland Plant List* may not be removed

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a.(1) Within the rail right-of-way and within 10 feet of the rail right-of-way;

b.(2) Within the utility line corridor;

(3) outfalls; Within the disturbance area for installation or replacement of stormwater

d.(4) Within a major public trail;

e.(5) Within a public viewing areas associated with viewpoints shown on Map <u>480-1;</u>

f.(6) Within a view corridor shown on Map 480-1; and

(7) Within a resource enhancement area; or

8 (8) Portland park. Within the disturbance area associated with development in a City of

Madrone, Gary Oak or Pacific Yew that are larger than 6 inches may not be removed;

- <u>4.5.</u> Trees that are over 6 inches in diameter that are removed must be replaced as shown in Table 475-2 and must meet the following:
- 4-a. Replacement vegetation must meet all of the following:
- a.(1) Trees must be a minimum ½-inch caliper, bareroot or live stakes, unless percent of the trees may be oak or madrone. Shrubs must be a minimum of one gallon size or bareroot. All other species must be a minimum of they are oak or madrone, which may be one gallon size. No more than ten four-inch pots or equivalent;
- b.(3) The planting must occur within the River Overlay Zones. Trees must not be and the applicant's site, then the applicant must own the property or have an easement or deed that ensures the vegetated area will not be developed; Protection Plan, shown on Map 480-1. If the vegetation is not planted on planted within a view corridor designated in the Scenic Resources
- c.(4) The requirements of Section 33.248.090, Mitigation and Restoration Planting must be met; and
- <u>5-b.</u> Vegetation Trees planted to meet the landscaping requirements of 33.475.220 may be counted towards meeting the tree replacement standard

33.475.4<mark>34</mark>0.<mark>KL</mark> Standards for mitigation

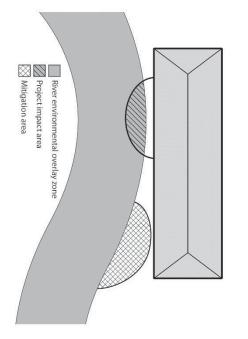
with new plantings, there is a loss of resource functional value until the new vegetation for the fact that when mature<mark>, and</mark> established vegetation is removed and replaced the area that will be disturbed for the development. This ratio is intended to mitigate required. Mitigation must occur in an area that is one and one-half times the size of becomes established. In order to develop in or alter the River Environmental overlay zone, mitigation is

mitigation area is contiguous to the River Environmental overlay zone. high density, then the mitigation can be done elsewhere on-site provided that the However, if the land within the River Environmental overlay zone is already planted at a Mitigation would be is usually installed within the River Environmental overlay zone.

	Table 475 – 2	
Tree Replace	Tree Replacement in River Environmental Overlay Zone	tal Overlay Zone
Size of tree to be removed	Option A	Option B
(inches in diameter)	(no. of native <mark>s</mark> trees to be	(combination of native trees and
	planted)	shrubs)
At least 1.5 and up to 6	1	Not applicable
At least More than 6 and up to 12	2	Not applicable
More than 12 and up to 20	3	1 tree and 3 shrubs
More than 20 and up to 25	5	3 tree <mark>s</mark> and 6 shrubs
More than 25 and up to 30	7	5 tree <mark>s</mark> and 9 shrubs
More than 30	10	7 tree <mark>s</mark> and 12 shrubs

- ř Paragraphs Subsections A through FG and U. Standards for mitigation. The following standards apply to mitigation required by
- <u>+</u> impact area. occur as a result of the proposal. Mitigation area is not counted as part of the project where structures will be built, vegetation will be removed, or ground disturbance will Project impact area is the total area within the River Environmental overlay zone Mitigation must occur at a 1.5:1 ratio of mitigation area to project impact area.
- 2 contiguous to the River Environmental <mark>Oo</mark>verlay <mark>Zz</mark>one, see Figure 475-4. Mitigation must occur in the River Environmental overlay zone or in an area that is
- ω the right to carry out, monitor, and maintain the mitigation for 10 years. must own the property or have an easement or deed restriction sufficient to ensure If the mitigation area is not on the site where the project occurs, then the applicant





Amended Proposed Draft Central City 2035 Plan Chapter 33.475, River Overlay Zones

33.475.4<mark>34</mark>0.<mark>kL</mark>.5.

mitigation ratio. mitigation planting density. Additional tree planting may be required to fulfill the replace the trees removed. Those trees can be counted towards meeting the The tree replacement standard specifies the number of trees that must be planted to

Table 475-3

River Environmental overlay zone where mitigation is conducted. corridor and wildlife habitat functions. This planting density applies everywhere in the with tree canopy, shrub layer and ground cover that provide a wide range of riparian subarea 1, described in Table 475-1. It is intended to result in a multistoried habitat This table represents the same planting density as the landscaping planting density for

sources, or nursery information such as cut sheets. spread, and growth rate. This information can come from published sources, internet canopy types are categorized as small, medium, or large based on the estimated canopy provide an objective source of information about the tree's mature height, crown of a tree not listed in the "Portland Tree and Landscaping Manual", the applicant shall include the size categories recognized for many trees. To determine the size category size at maturity. The "Portland Tree and Landscaping Manual" suggested plant lists Title 11<mark>, Trees, code section</mark> 11.60.020.*C*. Canopy <mark>includes canopy</mark> size categor<mark>yies</mark>. Tree

species' growth rate: incorporate the estimated height and crown spread of a mature specimen and the tree The canopy size category is calculated according to the following formulas, which

from 40 to 90, and large trees have a canopy factor greater than 90; Small trees have a canopy factor of less than 40, Medium trees have a canopy factor

factor) x 0.01; 2. Canopy factor = (Mature height of tree) x (Mature canopy spread) x (Growth rate

1 for slow-growing trees. ω The growth rate factor is 3 for fast-growing trees, 2 for medium growing trees, and

- 4 in Subsection J.; Nuisance plants identified on the Portland Plant List must be removed within the area to be replanted. Trees removed to meet this Paragraph must be replaced as specified
- ю zone or in an area that is contiguous to the River Environmental overlay zone; towards mitigation if the planting is located within the River Environmental overlay Plantings required for tree removal, as specified in Subsection J., can be counted
- б. Plants must be selected from the Portland Plant List; clustered. Trees must not be planted within a view corridor shown on Map 480-1. Required planting density standards are specified in Table 475-3. Trees may be

[1] Trop c	Planting Density			
[1] Tree cite <mark>c</mark> ic haced on Title 11 GO OOO C Canony Size	One tree and three shrubs for every 100 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre- and one of the following two options for every 100 square feet. Option 1: Three shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Three shrub and four other groundcover plants.	Small Trees[1]		
Canony Size	One tree and six shrubs for every 200 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre- and one of the following two options for every 200 square feet. Option 1: Six shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Six shrub and eight other groundcover plants.	Medium Trees[1]	Planting Density	Table 475-3
	One tree and nine shrubs for every 300 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. and one of the following two options for every 300 square feet. Option 1: Nine shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Nine shrub and 12 other groundcover plants.	Large Trees[1]		

[1] Tree size<mark>s</mark> is based on Title 11.60.020.C Canopy Size

- .7 different shrub species, and four different groundcover species must be used. may be of the same genus. If more than 40 trees, shrubs or groundcover plants are <u>used, then no more than 25 percent of the plants may be of the same genus-For</u> standard, then no more than 50 percent of the trees, shrubs or groundcover plants If more than 10 trees, shrubs or groundcover plants are used to meet the above planting areas over 600 square feet, at least two different tree species and sizes, three
- °. other species must be a minimum of four-inch pots or equivalent; and be oak or madrone. Shrubs must be a minimum of one gallon size or bareroot. All madrone, which may be one gallon size. No more than ten percent of the trees may Trees must be a minimum 1/2-inch caliper, bareroot or live stake, unless they are oak or
- <u>9</u> met. The requirements of Section 33.248.090, Mitigation and Restoration Planting must be

33.475.440.M

<u>amendments as required by the landscaping standard does not require river review.</u> amending the soil prior to installing the required plants. exactly matches the landscaping soil amendment standard to ensure that applying soil zone, requires river review. However, the landscaping standards of 33.475.220 require <u>Typically, application of soil, including placing fill in the River Environmental overlay</u> This standard, 33.475.440.M

33.475.450 **Development Standards** Corrections to Violations of River Environmental Overlay Zone

currently govern violations of standards in 33.430, Environmental Overlay Zones. functional values that occur as a result of a violation. regulations are intended to facilitate timely remediation for damage to resources and The proposed regulations for corrections to violations match the regulations that The

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- 3 application of soil amendments Standards for application of soil amendments. The following standards apply to the
- The depth of the soil amendment must be no more than 12 inches
- <u>River, streams, or other water body, or within 30 feet of a wetland;</u> The soil must not be applied below the ordinary high water mark of the Willamette
- The composition of the growing medium must meet one of the following
- <u>percent plant material compost (by volume); or</u> For all planting areas located outside of the flood hazard area, the growing <u>medium must be a blend of loamy soil, sand, and compost that is 30 to 40</u>
- σ support the establishment and growth of vegetation, and is heavier than water For all planting areas located within the flood hazard area, the growing medium architect or civil engineer must certify that the growing medium is adequate to <u>must be a blend of loamy soil, sand, small gravels and compost. A landscape</u>
- saturated; and Placement of the growing medium is not allowed when the ground is frozen or
- Temporary erosion control measures are required until permanent stabilization measures are functional. Temporary erosion control measures must be biodegradable <u>whichever is sooner</u> <u>or removed after permanent stabilization measures are functional or within 3 years,</u>

33.475.450 Corrections to Violations of River Environmental Overlay Zone Development Standards

≥ natural resources and functional values that have been degraded due to a violation of the Purpose. The purpose of the correction regulations is to ensure the timely restoration of River Environmental <mark>Oo</mark>verlay <mark>Zz</mark>one standards.

33.475.450.B details methods for correcting such violations and Title 3 of the City Code applied to remedy a violation that takes place in the River Environmental Overlay Zone. details the enforcement penalties These regulations establish a process to determine which review requirements will be The type of review required depends on the circumstances of the violation. Section

- Correction Options. Applicants must choose one of the following options to correct environmental code violations.
- 1. When these options may be used
- a or Option Three: If all of the following are met, the applicant may choose Option One, Option Two,
- (1) No more than 12 diameter inches of trees were removed;

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- 2 No ground disturbance occurred riverward of the top of bank of the other water body; Willamette River or within 30 feet of the top of bank of a stream, wetland or
- (3) The correction will remove all illegal development; and
- (4) The correction will replant illegal clearing.
- o. If any of the following occurred, the applicant may not use Option One, but may choose either Option Two or Option Three:
- (1) More than 12 diameter inches of trees were removed;
- 2 A Madrone larger than 6 inches, Garry Oak larger than 6 inches, or Pacific Yew larger than 6 inches was removed; or
- ω body. Disturbance occurred riverward of the top of bank of the Willamette River, or within 30 feet of the top of bank of a stream, wetland or other water
- ? If the applicant cannot meet Options One or Two, Option Three must be used
- d Three of the Willamette River or within 30 feet of the top of bank of a stream, wetland described in Section 33.730.140. The applicant may not choose Options Two or If the violation also violates a condition of approval of a land use review, no trees or other water body, the applicant may choose Option One or the process have been removed, and disturbance did not occur riverward of the top of bank
- Ð the Willamette River or within 30 feet of the top of bank of a stream, wetland or If the violation also violates a condition of approval of a land use review, trees 33.730.140. The applicant may not choose one of the options in this section. other water body, the applicant must use the process described in Section have been removed, and disturbance occurred riverward of the top of bank of
- 2 must be met. Adjustments and modifications to these requirements are prohibited. and replanting and repair of any damage. All of the requirements of this paragraph Option One, Remove and Repair. This option results in removal of illegal development
- a disturbance area is created; All items and materials placed in the area of violation are removed and no new
- σ to a depth of 6 inches prior to planting; Any soil compaction resulting from the violation is tilled or otherwise broken up
- Ω the violation. Violation remediation planting. The area to be planted is the area disturbed by All of the following must be met:
- (1)The area disturbed by the violation activity must be replanted to meet the standards of Table 475-3;

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- (2) shrub species, and four different groundcover species must be used. All plants must be native; 600 square feet, at least two different tree species and sizes, three different planted for every 200 square feet of planting area. For planting areas over One tree, six shrubs, and eight other ground cover plant
- ω A second area, equal in size to the area disturbed by the violation activity, must also be replanted to meet the standards of Table 475-3 as <u>planted on the site for every 50 square feet disturbed</u> remediation, or seven additional plants as described in B.2.c.2 must be
- <mark>54</mark> Any Nuisance or Prohibited Plants listed on the Portland Plant List must be removed from the planting area and within 10 feet of the planting area;
- (<mark>6</mark>5) Shrubs must be a minimum of two-gallon size. All other species must be a size. No more than 10 percent of the trees may be oak or madrone. Trees must be a minimum ene 1/2 inch in diameter, bareroot or live stake minimum of four-inch pots; Resources Protection Plan, shown on Map 480-1. Trees may be clustered. must not be planted within a view corridor designated in the Scenic unless they are oak, madrone, or conifer, which may be three- to five-gallon Trees
- (<mark>7</mark> The requirements of Section 33.248.090, Mitigation and Restoration Planting, must be met; and
- (87) For violations involving the removal of trees, two times the number of are oak, Madrone, or conifer, which may be three- to five-gallon size. diameter inches removed must be planted on the site, in addition to other Madrone, or Pacific Yew, the replacement trees must be of the same remediation vegetation planted. If any tree removed was a Garry Oak, species. Planted trees must be a minimum one inch in diameter unless they
- ω prohibited subsection must be met. Adjustments and modifications to these standards are development and mitigating for any damage. All of the requirements of this Option Two, Retain and Mitigate. This option results in legalizing the illegal
- The applicable standards of paragraphs 33.475.440.B must be met;

a

- o. Violation remediation planting. The area to be planted is the area disturbed by violation, an area of the same size elsewhere on the site must be planted. All of the following must be met: the violation. Where development is approved for the area disturbed by the
- (1)The area disturbed by the violation activity must be replanted to meet the <u>standards of Table 475-3</u>;

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- 2 be native and selected from the Portland Plant List. One tree, one shrub, and five groundcover plants are required to be planted for every 50 square feet of planting area. For planting areas over 600 hrub species, and four different groundcover species are used. Plants must <u>quare feet, at least two different tree species and sizes, three different</u>
- ω planted on the site for every 50 square feet disturbed must also be replanted <u>to meet the standards of Table 475-3 as</u> A second area, equal in size to the area disturbed by the violation activity, remediation, or seven additional plants as described in B.2.c.2 must be
- (4) Any Nuisance or Prohibited Plants listed on the Portland Plant List must be removed from the planting area and within 10 feet of the planting area;
- 5 size. Trees must be a minimum one 1/2 inch in diameter, bareroot or live stake minimum of four-inch pots; and Shrubs must be a minimum of two-gallon size. All other species must be a unless they are oak, madrone, or conifer, which may be three- to five-gallon <u>must not be planted within a view corridor designated in the Scenic</u> Resources Protection Plan, shown on Map 480-1 No more than 10 percent of the trees may be oak or madrone. Trees may be clustered. Trees
- (6) The requirements of Section 33.248.090, Mitigation and Restoration Planting, must be met; and
- <u>.</u> which may be three- to five-gallon size. a minimum ¹ one inch in diameter unless they are oak, Madrone, or conifer, inches removed must be planted on the site, in addition to other remediation For violations involving the removal of trees, two times the number of diameter Yew, the replacement trees must be of the same species. Planted trees must be vegetation planted. If any tree removed was a Garry Oak, Madrone, or Pacific
- 4. criteria and procedures below: Option Three, River Review. This option requires River Review, using the approval
- a Approval criteria. The applicable approval criteria of Subsection 33.865.120 must be met.
- o. Review procedures. Reviews are processed as follows:
- (1)Type III. A Type III review is required for any development, exterior drainageway, or water body. alteration, or exterior improvement within a wetland, stream channel,
- 2 Il procedure. Type II. All other reviews to correct violations are processed through a Type
- ω All River Reviews must provide the information required in Section 33.865.040, Supplemental Application Requirements

33.475.500 Removal or Remediation of Hazardous Substances

resources. dependent and river-related uses and development, public access and recreation or natural The goal of these regulations is to ensure that cleanup actions do not impair river-The regulations in this section apply to removal or remediation of hazardous substances

action. agency with the flexibility required to design the most appropriate removal or remediation written in a way that will provide the person conducting the cleanup and the regulating habitats, protection of natural vegetative fringe along the river, and setbacks from the requirements and the Oregon Statewide Planning Goals, particularly Goal 15: The river for non-water related or non-water dependent uses. The regulations have been Willamette River Greenway. Goal 15 requires protection of significant fish and wildlife The requirements are intended to refine the cleanup design to be in conformance with City

obtain local permits if the substantive requirements of the local jurisdiction are met of a state approved cleanup is exempt from the procedural requirements of the Code to requirements of the section. Under Oregon State Law (ORS 465.315(3)) the onsite portion Portions of State or federally approved cleanups may be exempt from procedural

substantive regulations. Cleanup conducted under state law in a City right of way is not evaluating hazardous substance removal or remediation plans compliance with the City's must be met regardless of whether the cleanup may be exempt or is applying for a permit. exempted and must comply with all applicable City requirements The Bureau of Development Services implements what it calls an "exempt process" for The regulations in this section are the City's substantive requirements for clean ups that

extent to which substantive requirements of City Code will be considered in a federal <mark>y</mark> Under federal law (42 U.S.C. 9621 (e)(1)), EPA has its own process for determining the approved cleanup.

33.475.500.<mark>FE</mark>

related development, such as development of the Greenway Trail. structures associated with the remediation will allow for future river-dependent and riveras part of remediation actions are considered river-related and allowed within the setback. dependent or river-related be set back 50 feet from the top of bank. Structures required that development in the River General overlay zone in the Central City that is not riverriver. The City's river setback (called greenway setback outside of this chapter) requires The standard seeks to ensure that after cleanup actions are complete, the location of Statewide Planning Goal 15 requires that structures or buildings be separated from the

Clean Up of Contaminated Sites

33.475.500 Removal or Remediation of Hazardous Substances

- ≥ unless one or more are demonstrated to be impracticable pursuant to subsection G, below taken to remove or remediate hazardous substances. All of the regulations must be met General. The following regulations are substantive requirements that apply to actions
- Where these regulations apply. The regulations of this section apply to the portion of the site located within the boundaries of the removal or remediation action.

C. Review procedure.

- <u>+</u> Except as described in paragraph C.2, compliance with these regulations is processed through a Type II procedure.
- 2 and the person performing the action must notify the City that the action is exempt. A requirements of these regulations to the extent required under state or federal law exempt from procedural requirements, the action must comply with the substantive If the action to remove or remediate hazardous substances is subject to this Code but may choose to obtain a permit. person conducting a cleanup otherwise exempted from the procedural requirements
- 0 action that is not in itself a remedial or removal action must meet all other applicable are exempt from the procedural requirements of Chapter 33.475. Any part of development Relationship to other regulations in this chapter. Actions to remove or remediate regulations and procedural requirements of this chapter. hazardous substances that are approved or selected under Oregon or federal cleanup law

site plan, as described in 33.865.040.A, is required Services determining substantial conformance with standards 33.475.500, a supplemental Determination Letter. To obtain a letter from the City of Portland Bureau of Development

- L.H. substances: Regulations that apply to actions to remove or remediate hazardous substances. The following regulations apply to proposals for the removal or remediation of hazardous
- <u>+</u> from riverfront sites, the placement of piles or dolphins, or the development of a the Greenway trail, dredging necessary to establish or maintain navigation to and related uses. Generally, this means that the final remedy must allow development of related activities unless the site is found to be unsuitable for river-dependent or riversetback, the final remedy must allow the use of the site for river-dependent or riveruse. If the site is within the River Industrial overlay zone or riverward of the river the site consistent with the uses allowed by the base zone or an approved conditional The removal or remedial actions and the final remedy must not preclude the use of marine facility, dock, or wharf or other river-dependent or river-related structure;

33.475.500.<mark>6F</mark>.1

the type and size of trees planted. cannot be avoided. The re-vegetation requirements are intended to allow flexibility in therefore requires re-vegetation when ground disturbance and native plant removal much as possible. The City is aware that this will not be possible in all cases, and the cleanup to design a remedy that leaves identified natural resource areas intact as The requirements of this subsection are aimed at encouraging the person conducting

- 2 <mark>eG</mark>reenway <mark>tT</mark>rail, and allow for natural resource enhancement; and bank of the river, reserve space for public access to the river and development of the setback standard which is to keep structures at least 50 feet away from the top of Buildings, structures and equipment required as part of removal or remediation actions must be located and designed taking into account the purpose of the river
- ω Overlay Zone. Water quality treatment facilities must be located outside of the River Environmental

<mark>.</mark> occur in specific areas. The following regulations apply to actions within the River Regulations that apply to actions to remove or remediate hazardous substances that specific locations: Environmental Overlay Zone to remove or remediate hazardous substances based on

- <u>+</u> The following regulations apply to areas landward of the top of bank:
- a Disturbance of the ground and removal of native vegetation must be avoided outside of the actual soil removal areas. If avoiding disturbance or native minimized. vegetation removal is not practicable, disturbance and removal must be
- o. Where ground disturbance or removal of native vegetation cannot be avoided, the area must be replanted. The replanting standards are as follows:
- Ξ Nuisance and prohibited plants identified on the Portland Plant List must be plantings; removed within the area to be replanted and within 10 feet of any
- [2] clustered. Trees must not be planted within a view corridor designated in Planting density. The replanting area must meet one of the following plant and planting density standards specified in Table 475-4. Trees may be the Scenic Resources Protection Plan, shown on Map 480-1.

Table 475-4

Table 475-3, and the landscaping planting density for subarea 1, Table 475-1. This table represents the same planting density as the mitigation planting density,

sources, or nursery information such as cut sheets. spread, and growth rate. This information can come from published sources, internet provide an objective source of information about the tree's mature height, crown of a tree not listed in the "Portland Tree and Landscaping Manual", the applicant shall include the size categories recognized for many trees. To determine the size category size at maturity. The "Portland Tree and Landscaping Manual" suggested plant lists canopy types are categorized as small, medium, or large based on the estimated canopy Title 11<mark>, Trees, code section</mark> 11.60.020.C. Canopy <mark>includes canopy</mark> size categor<mark>yies</mark>. Tree

species' growth rate: incorporate the estimated height and crown spread of a mature specimen and the tree The canopy size category is calculated according to the following formulas, which

from 40 to 90, and large trees have a canopy factor greater than 90; 1. Small trees have a canopy factor of less than 40, Medium trees have a canopy factor

factor) × 0.01; 2. Canopy factor = (Mature height of tree) x (Mature canopy spread) x (Growth rate

1 for slow-growing trees. 3. The growth rate factor is 3 for fast-growing trees, 2 for medium growing trees, and

Table 475-5

This table's information is the same requirement as the tree replacement standard. Table 475-2.

[1] Tree siz	Planting Density			
1] Tree size <mark>s</mark> is based on Title 11.60.020.C Canopy Size	One tree and three shrubs for every 100 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. and one of the following two options for every 100 square feet. Option 1: Three shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Three shrub and four other groundcover plants.	Small Trees[1]		
Canopy Size	One tree and six shrubs for every 200 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. and one of the following two options for every 200 square feet. Option 1: Six shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Six shrub and eight other groundcover plants.	Medium Trees[1]	Table 475-4 Planting Density	
	One tree and nine shrubs for every 300 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. and one of the following two options for every 300 square feet. Option 1: Nine shrubs and seeded with a grass and forb seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Nine shrub and 12 other groundcover plants.	Large Trees[1]		

[1] Tree size<mark>s</mark> is based on Title 11.60.020.C Canopy Size

- ω Plant diversity. For planting areas over 600 square feet, at least two groundcover plants are used, then no more than 25 percent of the plants may be of the same genus; trees or shrubs may be of the same genus. If more than 40 trees, shrubs or used to meet the above standard, then no more than 50 percent of the different tree species and sizes, three different shrub species, and four <u>different groundcover species are used</u> If more than 10 trees or shrubs are
- 4 inch pots or equivalent; and one gallon size or bareroot. All other species must be a minimum of fourpercent of the trees may be oak or madrone. Shrubs must be a minimum of are oak or madrone, which may be one gallon size. No more than ten Plant size. Trees must be a minimum ½-inch caliper or bareroot unless they
- 5 Planting must be met. The requirements of Section 33.248.090, Mitigation and Restoration
- ? Tree replacement. Trees that are 1.5-4 inches or greater in diameter that are removed must be replaced based on Table 475-5:

33.475.500.<mark>6F</mark>.2.a

planted between the rocks to provide a minimum level of vegetative cover. allow vegetation to be maintained, and requires that live willow or dogwood stakes be armoring is used on the bank, the City requires re-grading to a slope level that will City's priority is a natural bank that can sustain vegetation for soil stabilization, of hazardous substances, the City requires that the bank be restored using soil recognizes that there will be cases when bioengineering will not be practicable. improve ecological values and provide riparian functionality. However, the City bioengineering instead of engineered inert materials to the extent practicable. If the river bank will be altered significantly as a result of the removal or remediation If rock The

	Table 475-5	
Tree Replacem	Tree Replacement in Hazardous Substance Clean-up Sites	nce Clean-up Sites
Size of tree to be removed	Option A	Option B
(inches in diameter)	(no. of native <mark>s</mark> trees to be	(combination of native trees and
	planted)	shrubs)
At least 4 and up to 12	2	Not applicable
More than 12 and up to 20	3	1 tree and 3 shrubs
More than 20 and up to 25	5	3 tree <mark>s</mark> and 6 shrubs
More than 25 and up to 30	7	5 tree <mark>s</mark> and 9 shrubs
More than 30	10	7 tree <mark>s</mark> and 12 shrubs

- <mark>2</mark>1 Size. The replacement trees must be a minimum $\ensuremath{\mathscr{U}}\xspace$ -inch diameter or must be a minimum of four-inch pots or equivalent. Shrubs must be a minimum of one gallon size or bareroot. All other species bareroot unless they are oak or madrone, which may be one gallon size.
- <mark>32</mark> Type. The replacement trees must be native trees selected from the Portland Plant List;
- 43 the Central Reach. The person conducting the cleanup must own the Location. All replacement trees must be planted within the River restriction sufficient to ensure the success of the tree planting; and property where the trees are planted or have an easement or deed Overlay Zone, or within 50 feet of the top of bank of the Willamette River in Environmental Overlay Zone, within 50 feet of the River Environmental
- <mark>54</mark> Replacement trees can be counted toward meeting the requirements of subsubparagraph G.1.b(2).
- d. subparagraph G.1.b, above. complete and the areas must be replanted according to the standards of construction. All such areas must be removed by the time the project is River Environmental Overlay Zone when they are no longer necessary for remedy conducting the removal and remediation actions must be removed from the All vehicle areas and construction staging areas installed for purposes of
- 2 high water mark: The following regulations apply to the area between the top of bank and the ordinary
- <u>а</u> When there is an alteration to the area between top of bank and the ordinary removal of buildings, requires engineering of the river bank or includes in-water cubic yards or excavation or fill, changes the ground contours, results in the high water mark that is greater than 500 square feet or includes more than 50 work, the following should be met:

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- Ξ The area between the top of bank and the ordinary high water mark where following requirements apply: biotechnical techniques. In addition to using biotechnical techniques, the including soil bioengineering. Figures 475-5 and 475-6 show examples of the alteration occurs must be designed using biotechnical techniques
- rocks or gravel as part of the biotechnical technique; if necessary to contain hazardous substances or to preclude the use of using rock or other hard surface stabilization methods below the surface except as needed surrounding outfalls. This is not intended to preclude used between the top of bank and the Ordinary High Water Mark Rock armoring or other hard surface armoring methods must not be
- stabilization method; establishment and maintenance of vegetation as the primary soil The bank must be sloped or terraced in a way that allows the
- allows for at least one public access way to the beach or river; beach or the river, the bank must be sloped or terraced in a way that If the site is currently used for public recreation, including access to a
- support continued use of beaches and the river; and ecological values and, if the site is currently used for public recreation, reduce localized erosion, improve bank stabilization, and improve Large wood, including root wads, tree boles and logs, must be used to
- 33.248.090, Mitigation and Restoration Planting must be met. appropriate for the conditions on the site. The requirements of Section plants must be selected from the Portland Plant List and should be with shrubs or trees must be fully covered with ground cover plants. All every 400 square feet of altered area. All of the area that is not planted must be planted with shrubs. At least one tree must be planted for ordinary high water mark that is being altered as a result of the remedy At least eighty percent of the area between the top of bank and the
- 2 native willow or dogwood stakes should be planted in adequate soil, in the If biotechnical techniques are not practicable, as described in 33.475.500.H of rock armoring. interstices between the rocks at a ratio of three stakes for every square yard enough to allow a combination of rock and vegetation. At a minimum, live Ordinary High Water Mark, then the slope of the bank must be shallow and rock armoring is used on the surface between the top of bank and the

33.475.500.<mark>6E</mark>.3

will be cases when this will not be practical. If angular or large rock is necessary, the and allows for public access where possible. However, the City recognizes that there and people. The City's priority is a natural river bottom with improved ecological values substances, the City requires that the river bottom be restored to support use by fish altered significantly as a result of the removal or remediation of hazardous If the river bottom, which is the ground below the ordinary high water mark, will be City requires adding a top layer of small gravel over the large rock.

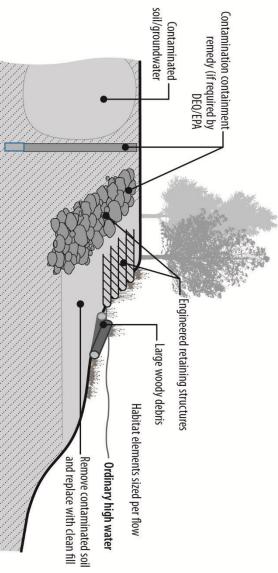
- o. When there is a minor alteration of less than 500 square feet or less than 50 ordinary high water mark, the regulations of paragraph G.1, above apply. cubic yards of excavation or fill to the area between the top of bank and the
- ω In the area that is riverward of the Ordinary High Water Mark, the following apply:
- <u>а</u> will preclude river-dependent or river-related development from accessing and transfer and conveyance of goods and materials to and from the upland site; utilizing the river for public recreation, transportation, tourism, or the transport Avoid in-water permanent structures that will impact the navigation channel or
- b. Integrate large wood, or other natural wave deflection structures or techniques discouraged; armoring, chemically treated wood, articulated block, and industrial debris is that mimic the function of large wood, into the near-shore environment. Rock
- 0 If the area is a beach or is a shallow water depositional area, then the final design should include all of the following:
- (1)At least six inches depth of substrate that is ½-inch rounded gravel or smaller in size should be placed over capping material;
- 2 The submerged slope should be no steeper than 1:7 (rise to run ratio); and
- ω Public access from the Greenway Trail or abutting upland sites to the river should not be precluded.
- d If the area is not a beach or is not a shallow water depositional area, then the average gradation size of 3 inches (D50=3"). Angular rock is discouraged. final substrate should be rounded rock no larger than 6 inches (D100=6") with an
- <mark>н</mark> Б Demonstration of Impracticability. A person conducting a cleanup may be exempted from purposes. The person must still comply with that requirement to the extent practicable consideration cost, existing technology, and logistics in light of overall project remedial compliance with the requirement is not capable of being done after taking into compliance with any requirement in this section if the person demonstrates that the applicant must submit an engineering analysis, a cost schedule and any other and remains subject to all other applicable requirements. To demonstrate impracticability requirement cannot be fully met. information, such as desired future use of the site, that supports a demonstration that a

Figures 475-5 and 475-6

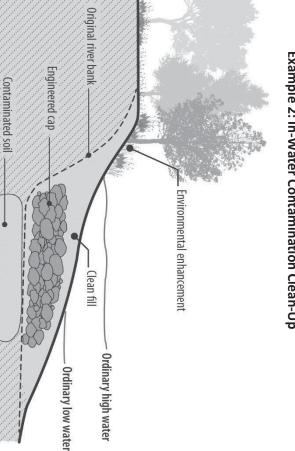
contamination clean-up that have occurred in the Willamette River in recent years. federal agency representatives. Staff updated the figures to reflect types of attended by biologists, bank design experts, landscape architects, and City, state and design charrette conducted by River Plan staff as part of River Plan/North Reach, and The examples that accompany this subsection were developed as part of a river bank

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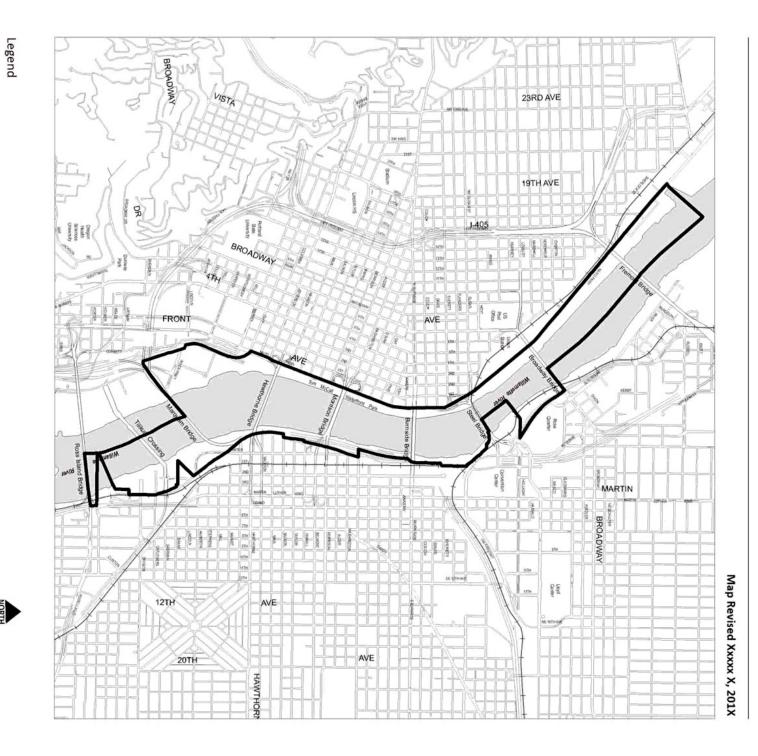


Map 475-1

map and the regulations of this chapter do not apply. greenway overlay zone regulations for the South Waterfront Subdistrict are contained Reach **Plan**, which predominantly addresses river industrial sites and development. The regulations of the Greenway Overlay Zones chapter, 33.440. Revised regulations for and southeast portion of the Central Reach in the Central City remain subject to the in 33.510.253 and therefore, the South Waterfront Subdistrict is not included on this these sites will be reviewed as part of the update to the Greenway Plan for the North is subject to the regulations of Chapter 475. Industrially zoned sites in the northeast This map depicts the Central Reach portion of the Willamette Greenway Boundary that

River Overlay Boundary Proposed Central Reach

Map 475-1



Amended Proposed Draft Central City 2035 Plan Chapter 33.475, River Overlay Zones

12/28/2016

River Overlay Boundary Proposed Central Reach

Bureau of Planning and Sustainability Portland, Oregon 0 Scale in Feet 1,800 NORTH 3,600 U

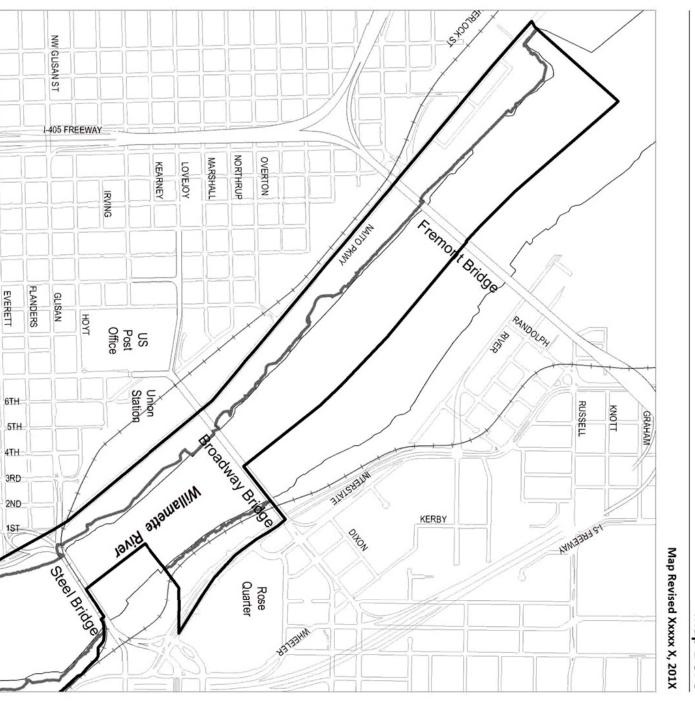
Map 475-2

then the top of bank will be the default location described in Section 33.930.150, Section 33.930.150, Measuring Top of Bank. If there is no decrease in slope that is 10 of a water body and a point 50 feet landward from the ordinary high water mark. See decrease in slope that is 10 percent or greater between the ordinary high water mark refined map to the City Council. Measuring Top of Bank. City staff plan to survey portions of this map and provide a percent or greater within a distance of 50 feet from the ordinary high water mark, Detection and Ranging (LIDAR). The top of bank is defined in 33.910 as the largest This map series shows the mapped top of bank for the Central City using Light



Map 475-2

Map 1 of 3



Amended Proposed Draft Central City 2035 Plan Chapter 33.475, River Overlay Zones

12/28/2016

Legend

River Overlay Boundary

Proposed Central Reach

Top of Bank (where mapped)

Bureau of Planning and Sustainability Portland, Oregon 0 Scale in Feet NORTH 800 1,600 П

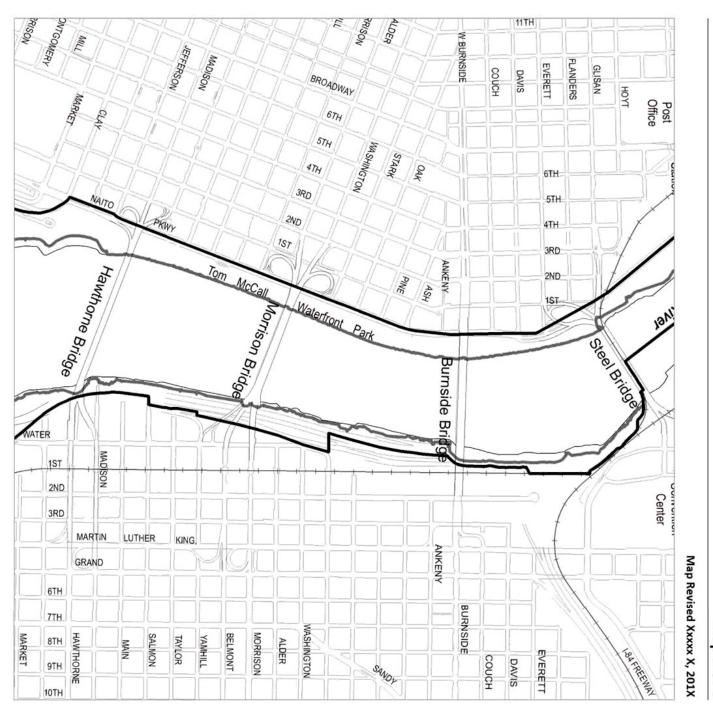
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Map 475-2

Map 2 of 3



Top of Bank (where mapped)

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Chapter 33.475, River Overlay Zones

River Overlay Boundary

Legend

Proposed Central Reach

Amended Proposed Draft Central City 2035 Plan

0

1,600

NORTH 800

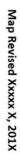
Bureau of Planning and Sustainability Portland, Oregon Scale in Feet

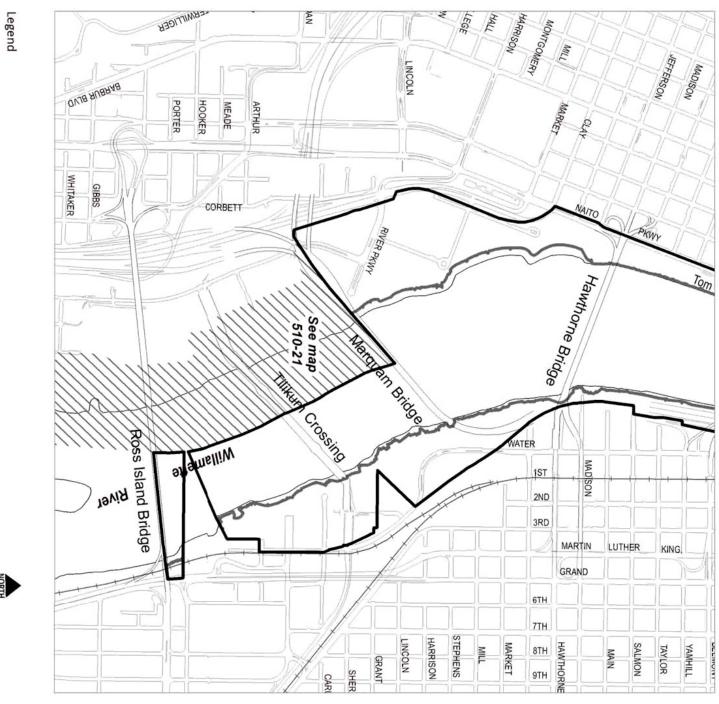
12/28/2016

Proposed Central Reach Top of Bank

Map 475-2

Map 3 of 3





Amended Proposed Draft Central City 2035 Plan Chapter 33.475, River Overlay Zones

12/28/2016

Top of Bank (where mapped)

Proposed Central Reach River Overlay Boundary

0

1,600

L

NORTH 800

Scale in Feet

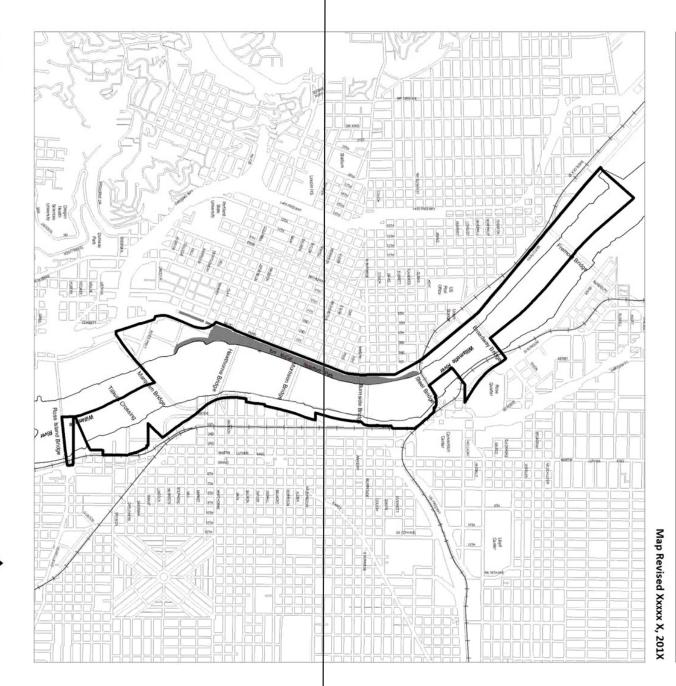
Bureau of Planning and Sustainability Portland, Oregon 82

Map 475-3

landscaping. This map depicts Governor Tom McCall Waterfront Park <mark>and the public beach at</mark> <u>Eastbank Crescent</u>. There are different requirements at this <u>these</u> location<u>s</u>, such as

Governor Tom McCall Waterfront Park **Proposed Landscaping Requirements at**







12/28/2016

Waterfront Park Governor Tom McCall

River Overlay Boundary Proposed Central Reach



Legend





Chapter 33.475, River Overlay Zones

Bureau of Planning and Sustainability Portland, Oregon Scale in Feet

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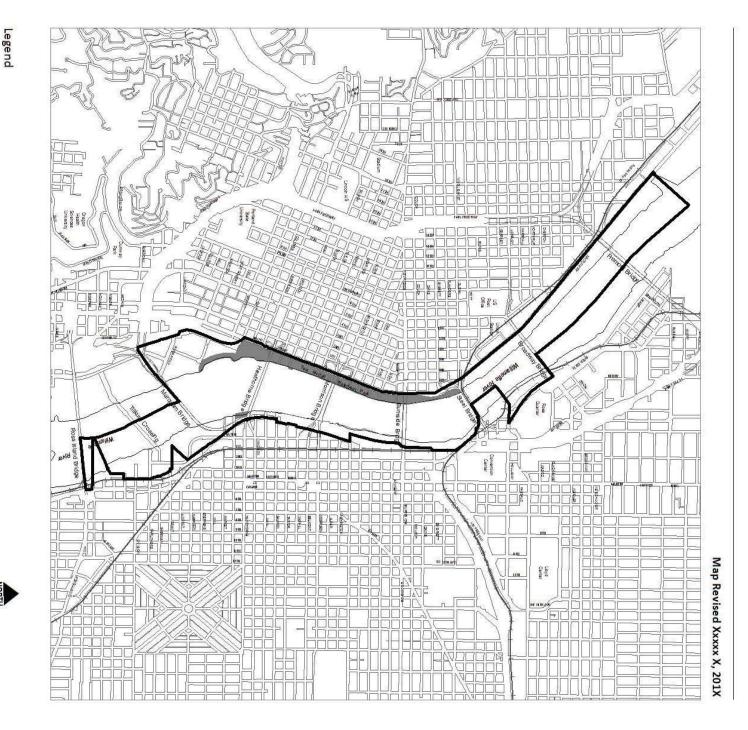
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Areas Exempt from Landscaping Requirements

Map 475-3

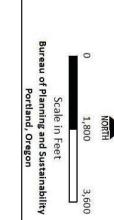


12/28/2016

Proposed Central Reach

River Overlay Boundary

Exempt Areas



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Amended Proposed Draft Central City 2035 Plan

Chapter 33.475, River Overlay Zones