

PLANNING COMMISSION

December 5, 2023 - 6:00:PM

Email planning@centralpointoregon.gov to request a Zoom link for virtual participation

- I. MEETING CALLED TO ORDER
- II. PLEDGE OF ALLEGIANCE
- III. ROLL CALL
- IV. CORRESPONDENCE
- V. MINUTES

Review and approval of Planning Commission meeting minutes.

- 1. Planning Commission Regular Meeting Nov 7, 2023 6:00 PM
- VI. PUBLIC APPEARANCES
- VII. BUSINESS
 - A. Elk Creek No-Rise Certification(Presented by Gindlesperger)
- VIII. DISCUSSION
 - A. Climate Friendly Area (CFA) Study(Presented by Powers)
- IX. ADMINISTRATIVE REVIEWS
- X. MISCELLANEOUS
- XI. ADJOURNMENT

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CITY OF CENTRAL POINT PLANNING COMMISSION MEETING MINUTES November 7, 2023

- MEETING CALLED TO ORDER AT 6:04 P.M.
- II. PLEDGE OF ALLEGIANCE

III. ROLL CALL

Commissioners Tom Van Voorhees (Chair), Pat Smith, Jim Mock, Robin Stroh, Alicia Van Riggs, Don Dixon, and Kay Harrison were present. Also in attendance were Planning Director Stephanie Powers, Community Planner Justin Gindlesperger, City Attorney Sydnee Dreyer, City Manager Chris Clayton, Public Works Director Matt Samitore, Construction Services Supervisor Greg Graves and Planning Secretary Karin Skelton, Traffic Engineer Ejaz Kahn (virtually) Ed Christiansen, Civil Engineer (virtually).

IV. CORRESPONDENCE

Letter from Central Point Resident Josiah Green

Attachment "T" - Letter from Shelly Hohl dated 9/12/23

Attachment "U" - Letter from concerned Residents of Central Point East dated 10/29/23

Attachment "V" - E-mail correspondence from Scott and Debbie Randol dated 11/1/23

Attachment "W" - E-mail correspondence from Daniel Harris dated 11/6/23

Attachment "X" – E-mail from Fire District 3 dated November 6,2023

Attachment "Y" - E-mail from Ryan Bair dated November 7, 2023

V. MINUTES

Jim Mock made a motion to approve the October 3, 2023 Minutes. Robin Stroh seconded. ROLL CALL: Kay Harrison, Pat Smith, yes; Jim Mock, yes; Robin Stroh, yes; Alicia Van Riggs, yes; Don Dixon, yes.

VI. PUBLIC APPEARANCES

None

VII. BUSINESS

A. Continued Public Hearing regarding Urgent Care Medical Office Site Plan and Architectural Review

Chair Tom Van Voorhees stated this was a continued public hearing and read the rules governing a quasi-judicial hearing.

Commissioner Alicia Van Riggs stated she lived in the subject neighborhood and declared she believed it would not be possible for her to make an unbiased decision and recused herself.

The Commissioners had no ex parte contact, or bias to declare. There were no challenges to the impartiality of the Commissioners.

Community Planner Justin Gindlesperger gave an overview of the Site Plan Architectural Review (SPAR) agenda, objective and approval criteria. He reviewed the project background and described the existing conditions of the property. He reviewed the tentative partition plan which was approved at the September 5, 2023 public hearing, stating that interior street with connectivity to Oakview Ave. and Ridgeway Avenue was required as part of that application. He stated the property was zoned for commercial use at the time Central Point East was developed.

Mr. Gindlesperger reviewed the building design and landscape plan. He explained the conclusions of the Traffic Impact Analysis and conditions of approval.

He presented the new testimony regarding the Land use, stating staff's conclusions are based on the evidence in the record and expert testimony.

He reviewed the Public works memorandum, the Traffic Impact Analysis and comments from Fire District 3. He addressed public comments regarding the traffic impact and emergency egress.

Planning Director Stephanie Powers explained the role of the Planning Commission is to consider how the application meets the criteria in the Municipal Code and the evidence in the record and approve or deny on those criteria.

Mr. Gindlesperger reviewed the approval criteria stating staff was recommending approval of the Site Plan and Architectural Review application subject to the recommended conditions of approval.

Daniel Harris Agent

Mr. Harris stated the traffic engineer and the civil engineer were available online to answer any technical questions. He explained urgent care facility would not perform surgeries but would stabilize emergencies for transport to hospital and perform minor medical treatments.

There were no questions.

Public Hearing was opened

Linda Borum, Ridgeway Ave.

Ms. Borum expressed concern about increased traffic and cars parked in the subdivision. She was worried about the safety of children playing in front of their homes. She said there would be undesirable people accessing the neighborhood and teenagers driving dangerously.

Aaron Ott, Ridgeway Ave.

Mr. Ott felt it was unusual for a commercial facility to be in such close proximity to a residential area. He felt the citizens' concerns were not being heard. He said Fire District 3 had given different information than he was hearing from the Planning Commission.

Sandy Nelson, White Oak Ave

Ms. Nelson expressed concern about the connectivity to the neighborhood. She stated the development of Costco and other businesses has negatively impacted the quality of life for the residents of Central Point East. She stated that there were currently no traffic issues within the subdivision. She said the residents had no problems exiting the neighborhood during evacuation however they were stuck in traffic on Wilson Road. She absolutely disagreed with the TIA findings and expressed concern about children's safety.

Mr. Van Voorhees asked for clarification of the statement that the residents have been greatly affected by the development along Biddle, but there are no traffic issues in the subdivision.

Ms. Nelson responded stating that 18 years ago there was no commercial development along Biddle and there were no traffic issues. Now there is quite a bit of traffic. She said the impact was not within the subdivision but on the surrounding streets.

June Lumbrechtsen, Ridgeway Ave.

Ms. Lumbrechtsen stated her main concern is the safety of the children. She requested that the streets remain closed.

Ralph Nelson, White Oak

Mr. Nelson stated the residents did not know the connection of the streets was part of the Partition application which was approved by the Planning Commission on September 5, 2023.

Mr. Van Voorhees stated there were many residents in attendance at the September 5, 2023 meeting and many people spoke at the public hearing. He said the public hearing for the SPAR was continued for two months to allow staff to review all testimony. He explained the noticing criteria.

City Attorney Sydnee Dreyer explained that the original notice for the September 5th meeting had two items on the agenda. The partition for the urgent care facility and the Site Plan and Architectural Review (SPAR). The Public Works Staff Report Recommended connectivity as part of the Partition application. A number of people spoke on the partition application. The Planning Commission voted to approve the Partition. The hearing on the Site Plan and Architectural Review was opened and was continued to the October 3, 2023 meeting. At that time it was continued to this November 7, 2023 meeting.

Mr. Nelson stated he had evacuated the area twice and there was no issue exiting the subdivision. The traffic problems were on the surrounding streets.

Marty Smith, Orchardview Ave.

Mr. Smith said he thought access should be taken from Table Rock and Biddle roads only. He was concerned about vandalism and the type of people who would drive through their neighborhood if the streets were opened. He was concerned about the traffic impacts. He added, when he bought his property in 2017, his realtor did not inform him this property was zoned commercial.

Scott Randol, Brookdale Dr.

He concurs with the other residents. He acknowledged the Traffic Impact Analysis (TIA) indicated minimal impact, however they did not do traffic counts on the neighborhood streets. He stated it was on the streets outside the subdivision where they encountered traffic problems. He disagreed with the suggestion from Public Works to study traffic 60 days after opening the roads up

Mr. Van Voorhees stated the Planning Commission has continued this hearing for two months in order to review and evaluate the concerns surrounding the issue.

Mr. Randol stated the frustration stemmed from the rules that governed the process. These did not take into account the concerns of the residents.

Stacy Dinnell,, Ridgeway Ave.

Ms. Dinnell asked for clarification. She said she and many others did not know the connectivity issue was approved at the September 5, 2023 meeting. They were under the impression the SPAR hearing was continued in order to evaluate the connectivity issue.

Mr. Van Voorhees confirmed the Partition application included the connectivity of the two roads and was approved at the Sept. 5, 2023 meeting. However, hearing the many concerns the hearing on the SPAR application was continued in order to thoroughly evaluate the testimony.

Ms. Dinnell stated it was not clear at the September 5, 2023 meeting that the connectivity issue was included in the partition application. She challenged the Commissioners to vote according to the interests of the people in the neighborhood.

Janet Studer, Ridgeway Ave.

Ms. Studer stated she concurred with what has been stated. She said she has seen homeless people in the neighborhood. There have been robberies and a house fire. Her home was vandalized once. Cars in the neighborhood have been vandalized. She is concerned for her safety and that of her neighbors.

Michelle Mckenna, Ridgeway Ave

Ms. McKenna stated Ridgeway is a long street and there is a lot of speeding which endangers children and pets. She said she found information on the City's website regarding this process and the application. She suggested the City should find more effective ways to communicate with its citizens.

Lisa Kirkland, Ridgeway Ave.

Ms. Kirkland said she concurs with everyone. She stated she has been evacuated three times and easily got out of the neighborhood each time only to be stuck in traffic outside of the subdivision. Her main concern is safety. She feels safe walking in the neighborhood even at dusk. She expressed concern that if the streets were connected through there would be more traffic and she would no longer feel safe walking in the evening.

Natalie Scott, Ridgeway Ave

Ms. Scott said she was concerned about losing a safe area at the end of the street where her children and their friends could play. If the streets are opened it would ruin their play area. She concurred with everything that has been expressed.

Dan Harris, Agent

Mr. Harris offered to answer any questions and stated the engineers were available to address any specific concerns. There were no questions.

Public Works Director Matt Samitore explained a condition is requested to do a traffic study after 60 days in order to obtain accurate information about the traffic impact to the Central Point East neighborhood. He said that only the City Council has authority to make a policy decision and they would need accurate information in order to determine whether the streets need to be restricted or whether the impact is minimal.

Ms. Powers explained the Site Plan and Architectural Review process and criteria for approval. She said that limiting access is outside of the scope of the land use standards.

Stacy Dinnell, Ridgeway Ave.

Ms. Dinnell stated that once the streets were opened they would not ever be closed off again, and that the traffic counts would not make any difference. She was frustrated that the tentative plan was approved which included the connectivity and she asked for clarification as to why they had to be opened for the traffic study.

Mr. Samitore responded that limiting local streets was a policy decision and outside of the responsibilities of the Planning Commission. It would need to be presented to the City Council. He explained the land use process.

Ms. Dinnell stated none of the neighborhood members understood that approving the partition application included the street connectivity. She stated for the record that Ms. Powers had told her the decision would be postponed because of the community concerns.

She stated she wanted to go on the record that they should care about the community and vote no.

Ms. Powers stated for the record that we discussed the partition application, the options for final plat including the development agreement and bonding for improvements as part of that application. During the SPAR hearing there was discussion about the community's concerns. Staff did recommend this item be continued, but it was not to consider dedication of the right of way and construction of the road. It was to look at the form of the connectivity itself. The street is required in order to serve the development. Ms. Powers pointed out the map shows Orchardview and Ridgeway Avenues dead ending into the property at 4404 Biddle Road. She said if those roads were constructed to be permanently dead ended at these locations it would have been required to have an approved fire turn around such as a cul-de-sac or hammer head. In light of the Citizen Concerns, the Public Works Department has proposed to look at the impacts and present those results to the City Council, who can make a policy decision regarding limiting the access. That is not something that the standards in the zoning code or the Public Works specifications are designed to do.

She explained the options available for appealing a planning Commission decision Ms. Powers stressed this application before the Planning Commission is to consider if it meets the design and development standards of the Municipal Code.

Ms. Powers offered to answer any questions. There were no questions.

Ryan Behr, Ridgeway Ave.

Mr. Behr asked if there was more than one plan submitted for the application.

Mr. Van Voorhees explained the applicant's plan was being voted on, however the Planning Commission was able to impose conditions if they felt it was warranted.

Mr. Behr asked the Planning Commission entertain other plans that would not impact the neighborhood.

The Public Hearing was Closed

Jim Mock made a motion to approve Resolution 913 recommending approval of the Site Plan Architectural Review Application for the Urgent Care Medical Development per the Staff Report dated of November 7, 2023. Don Dixon seconded the motion.

The Commissioners expressed appreciation of the community participation and concerns. They discussed the safety issues and the noticing criteria. They discussed the traffic and zoning issues.

Ms. Dreyer clarified Public Works has authority at any given time to modify the street connections within its standards. They can also make request of the City Council for policy decisions. The role of the Planning Commission is to vote based upon the land use

compliance with current standards. She added that no matter what the decision was, Public Works would always retain the right to manage the right of way, egress and emergency access.

Mr. Samitore proposed a condition of approval to keep the existing K-rails in place during construction. Public works would study the traffic generated and bring that information to City Council to decide if the streets should be opened.

Kay Harrison made an amendment to the motion to keep the existing K-rails on Orchardview Avenue and Ridgeway Avenue in place during construction until such time as the Public Works Department completes an analysis for City Council to consider future connectivity and emergency access. Don Dixon seconded the motion.

ROLL CALL on Amendment: Kay Harrison: yes; Jim Mock: yes; Pat Smith, yes; Robin Stroh, yes; Don Dixon, yes. Motion passed.

ROLL CALL on original motion as amended: Kay Harrison: yes; Jim Mock: yes; Pat Smith, yes; Robin Stroh, yes; Don Dixon, yes. Motion passed.

DISCUSSION

IX. MISCELLANEOUS

X. ADJOURNMENT

Pat Smith made a Motion to Adjourn. Don Dixon seconded. The meeting was adjourned at 8:18 p.m.

Tom Van Voorhees Planning Commission Chair



Staff Report

Elk Creek No-Rise Certification

1772

December 5, 2023

Item Summary

Consideration of a floodplain development application to complete improvements in Elk Creek to replace an existing culvert and improve stream flow by re-establishing a natural channel. The improvements are within the Special Flood Hazard Area (SFHA) and regulatory floodway for Elk Creek. **Applicant**: City of Central Point; **Agent**: RH2 Engineering; **File No.**: FP-23004.

Background

There are seven (7) streams that flow through the City of Central Point. Elk Creek is a small tributary to Bear Creek located in the southeastern portion of the City. The project location is within the 2020 Almeda Fire burn area and is part of a post-fire rehabilitation project along the Bear Creek Greenway (Attachment 1). At this time, the City is addressing in-stream fish passage by improving low flow conditions and reducing bank erosion. To accomplish this, work will need to be done within the regulatory floodway and floodplain for Elk Creek (Attachment 4).

As a participating community in the National Flood Insurance Program (NFIP), the City requires that floodplain development activities be evaluated and permitted to minimize flood damages, promote safety and protect environmental resources. In accordance with CPMC 8.24.090, the Floodplain Development permit is subject to Type III (quasi-judicial) procedures set forth in CPMC 17.05.400. In rendering a decision on the application, the Planning Commission must consider the criteria in CPMC 8.24.200 relative to floodway development. At the December 5, 2023 meeting, staff will provide a presentation on the application and its conformance with the applicable criteria needed to restore the stream channel conditions.

Project Description:

The proposed project replace an existing culvert that is under-sized during high flows and creates a barrier to fish passage during low flows in Elk Creek. The culvert will be sunken into the channel to create a natural channel through the length of the culvert. The channel will be regraded upstream and downstream of the proposed culvert to eliminate steep gradients and a 90-degree bend in the channel will be eliminated to reduce erosion.

In accordance with CPMC 8.24.200(A), a No-Rise certification is required to evaluate the existing flood conditions before a project and the proposed flood conditions following the completion of the project. According to the No-Rise documentation, the replacement culvert and regrading the channel within Elk Creek improves flows within the channel resulting in a decrease in flood elevations and provides fish passage through the project area, where the existing culvert prevented passage (Attachment 2). Since construction of the project does not result in an increase to flood elevations, the documentation is consistent with the City's no-rise standard.

Issues

There are no issues related to this application.

Findings of Fact & Conclusions of Law

The proposed floodplain development within Horn Creek has been evaluated against the

applicable Flood Damage Prevention Criteria set forth in CPMC 8.24 and found to comply as evidenced in the Applicant's No-Rise documentation (Attachment 2) and the Planning Department's Supplemental Findings (Attachment 3).

Conditions of Approval

No conditions of approval are recommended,

Attachments

Attachment "1" - Floodplain Development Project Location Map

Attachment "2" – No-Rise Analysis (Note: Appendices are included in the record and available for review upon request)

Attachment "3" - Planning Division Findings of Fact and Conclusions of Law

Attachment "4" - Floodplain Development Application, dated 10/23/2023

Attachment "5" - Resolution No. 914

Action

Open a public hearing and consider the proposed Floodplain Development application and 1) approve; 2) approve with revisions; or 3) deny the application.

Recommendation

Approve Resolution No. 914, approving the floodplain development application to construct improvements within the regulatory floodway for Elk Creek.

ATTACHMENTS:

- 1. Attachment 1 Project Location Map
- 2. Attachment 2 Elk Creek No-Rise Analysis Rev_4-20231019
- 3. Attachment 3 Planning Department Findings
- 4. Attachment 4 Floodplain Development Permit Application
- 5. Attachment 5 Resolution 914



Attachment 1

Elk Creek Floodplain Development & No Rise Certification

Project Location Map File No∴ FP-23004



Packet Pg. 11

ATTACHMENT 2



Technical Memorandum

DATE: Originally submitted September 7, 2022

Revised to include Attachment C October 12, 2023

TO: Tyler Duncan, PE RH2 Engineering, Inc.

FROM: Joey Howard, PE

Cascade Stream Solutions, LLC.

SUBJECT: No Rise Assessment for Elk Creek Service Road Culvert Replacement

near Bear Creek

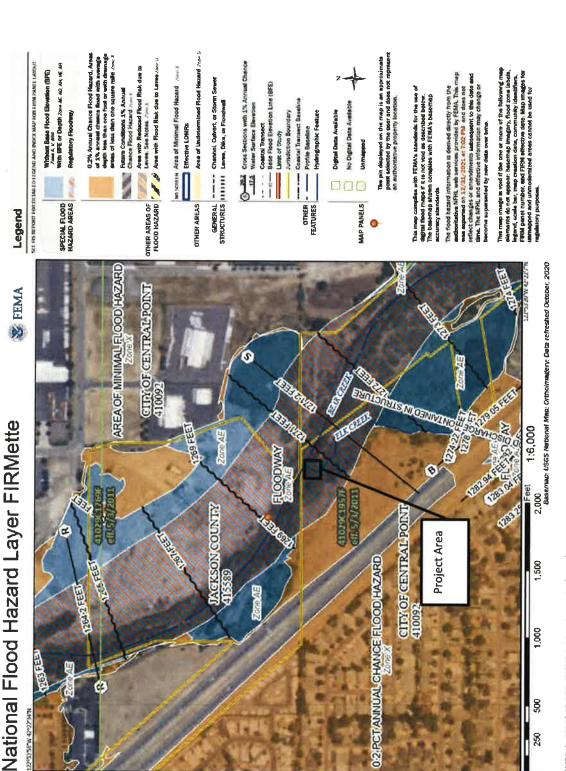
Expires: 2025.06.30

Cascade Stream Solutions (Cascade) was hired by RH2 to assist in the design of a culvert crossing Elk Creek in the City of Central Point. The new culvert will replace an existing culvert as part of post fire rehabilitation measures following a 2020 fire along the Bear Creek Greenway. Project elements are to be contained within Tax Lots 372W12B-502. The land classification is designated as Rural Tract Land. The project reach of Elk Creek is located within the City of Central Point, Jackson County, OR. The project reach lies within the Bear Creek floodplain. The Federal Emergency Management Agency (FEMA) Flood Insurance Studies (FIS) for Bear and Elk Creeks is contained in Community Number 410092 and Flood Insurance Rate Map (FIRM) 41029C1957F which has an effective dated May 3, 2011. FEMA mapped the Bear Creek (Figure 1) within the project reach as Zone AE.

The proposed improvements have been developed to improve fish passage past an existing road crossing. Project elements are shown on the preliminary design plans (Attachment A). These elements include

- Removing the existing crossing;
- Reprofiling the stream to a grade of about 200 feet;
- Re-align the stream to remove the 90 degree bend upstream of the road crossing; and
- Install a sunken box culvert using stream simulation techniques.

Cascade confirmed no insurable structures, as defined by FEMA, exist within the project area and would be impacted by the proposed restoration activities. Cascaded determined there is no rise due to the project.



Attachment: Attachment 2 - Elk Creek No-Rise Analysis Rev_4-20231019 (1772 : Elk Creek No-Rise

FIGURE 1. FEMA FLOOD INSURANCE RATE MAP (FIRM) FEATURES.

METHODOLOGY

The effective Flood Insurance Rate Map identifies the flood hazard on Bear Creek project reach as Zone AE. The FEMA maps show a floodplain width of about 700 feet.

Cascade conducted a hydraulic analysis for the primary channel where the work is being constructed and used a relative difference approach to identify the potential impact of replacing culvert crossing. Cascade used a 2-dimensional model, SRH-2D to assess potential impacts to the 1 percent annual exceedance flood levels (commonly referred to as the 100-year flood). Cascade computed flows through the culvert for low flows (less than the 10 percent annual exceedance flood (10-year flood) using a 1-dimensional model, HEC-RAS. Model development is described below.

At the request of the City of Central Point, Cascade developed a duplicate effective model using FEMA's effective HEC-2 model and compare this model to the project conditions model. This analysis is provided in Attachment B

1 Percent AEP: 2-Dimensional Model Development

SRH-2D hydraulic model simulations requires uses user specified topographic/bathymetric information and roughness to compute losses, boundary conditions at the upstream, downstream boundaries and relevant flow scenarios. The model is an unsteady model that requires the user to specify a computational time step and simulation duration.

Model geometry is based on field surveys conducted by Neathamer Surveying withing the project area and LiDAR obtained from DOGAMI in the floodplains and outside the project area. Existing conditions model geometry is based on a 1 ft DEM developed by Cascade from the two surfaces. Project conditions model geometry was developed by superimposing the design surface developed in Civil 3D with the existing conditions surface. The model domain encompasses the entire project area and extends from about 2000 feet downstream of the proposed crossing and about 1200 feet upstream of the crossing.

The computational mesh was developed for the project area and computational nodes assigned using elevations from the surface. The floodplain and channel are represented as an irregular triangular network (Paving Mesh Type). Lengths of floodplain vertices ranged from 5 to 10 feet for the existing conditions mesh. The vertices in the channel 3 feet. Smaller vertices near the channel were used in the project conditions mesh to define the channel.

Cascade used Manning's n values to simulate roughness to compute friction losses. Manning's n values were estimated to be 0.06 and 0.035 for floodplains and channels, respectively.

Model boundary conditions were set at the upstream and downstream ends of the model domain. A constant inlet flow (Q) of 20500 cfs, obtained from the FIS, was set at the upstream end. A uniform flow (normal depth) boundary condition was set at the downstream boundary using the channel bed slope of 0.00443 ft/ft, which was obtained by calculating the water surface slope from the FIS. The Manning's n was set to 0.045 to account for the floodplain and channel roughness.

Model simulations were run at a computational time step of 0.25 seconds and until a constant water level was achieved at the downstream boundary.

Moderate Flow: 1-Dimensional Model Development

Cascade developed a 1-dimensional model using HEC-RAS to simulate flows through the culvert. A one-dimensional model was selected to better model the flow through the culverts during moderate flows. At these moderate flows, water is contained within the primary channels and can be easily characterized by a 1-dimensional because the conveyances, velocities, and associated physical forces are only significant in the stream direction. to vary Model reaches were developed of Bear Creek below the confluence with Elk Creek and above Elk Creek as well as of Elk Creek.

Bear Creek was modeled with two reaches, one extending about 800 feet below the confluence with Elk Creek and one extending about 200 feet above the confluence with Elk Creek. Elk Creek was modeled as a single reach extending about 220 feet upstream of the confluence with Bear Creek. Cross sections were spaced between about 70 feet and 270 feet along Bear Creek and about 10 to 70 feet apart along Elk Creek. Manning's n were estimated to be 0.035 in the channel, 0.06 in the floodplain, 0.023 in the existing corrugated metal pipe culverts, and 0.012 along the top of the concrete box culvert. The concrete box invert with engineered streambed material was set to 0.035. Cascade established downstream water levels using normal depth boundary conditions with a friction slope of 0.0043 in Bear Creek.

Flow simulations were run for a flow of 261.4 cfs in Elk Creek, City of Central Point's 10 AEP peak flow, and flows of 1000, 2000, 3000, 4000, and 5000 cfs in Bear Creek. FEMA lists the 10 AEP flow as 6770 cfs.

1 Percent AEP: 2-Dimensional Model Results

Model results are shown as color contour plots for the existing and project conditions for 20500 cfs, FEMA's estimate of the 1 AEP peak flow. Figures 2 through 4 show existing conditions the water surface elevations, depths, and velocities, respectively. Figures 5 through 7 show project conditions the water surface elevations, depths, and velocities, respectively. Figures 8 and 9 show water depths within the project reach for existing and project conditions and Figure 10 shows differences in water surface depths between the project and existing conditions. Differences in water surface elevations were less than 0.005 feet. These differences are negligible. Water surface elevations over the crossing is about 14 feet for existing conditions and about 11 feet for project conditions. These model results demonstrate, the proposed road improvements do not measurably influence flow conditions during extreme events, such as the 1 AEP (100-year) flood.

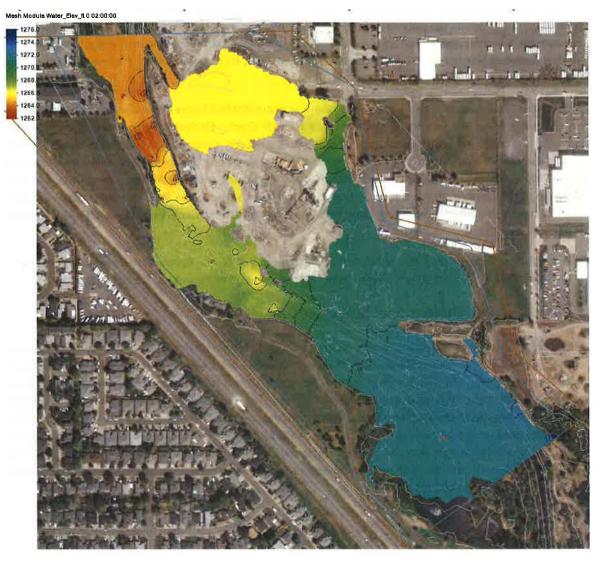


FIGURE 2. EXISTING CONDITIONS WATER SURFACE ELEVATION CONTOUR MAP - 20500 CFS

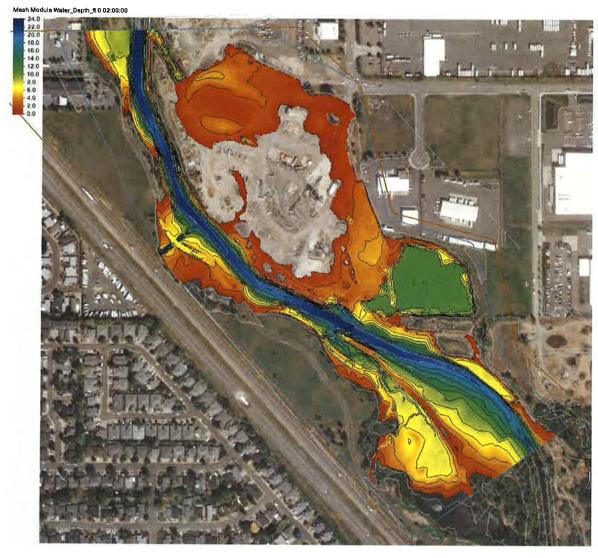


FIGURE 3. EXISTING CONDITIONS DEPTH CONTOUR MAP - 20500 CFS

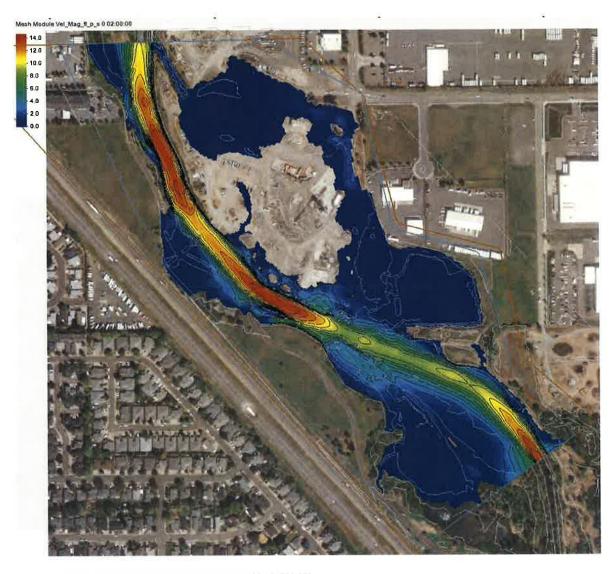


FIGURE 4. EXISTING CONDITIONS VELOCITY CONTOUR MAP - 20500 CFS

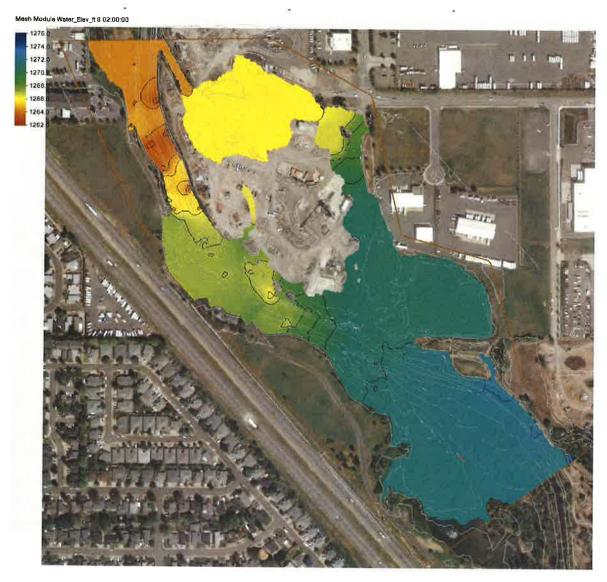


FIGURE 5. PROPOSED WATER SURFACE ELEVATION MAP - 20500 CFS

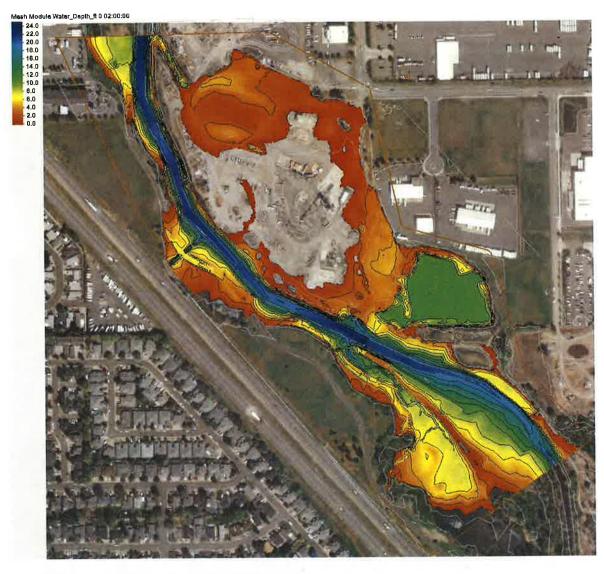


FIGURE 6. PROPOSED CONDITIONS DEPTH CONTOUR MAP - 20500 CFS

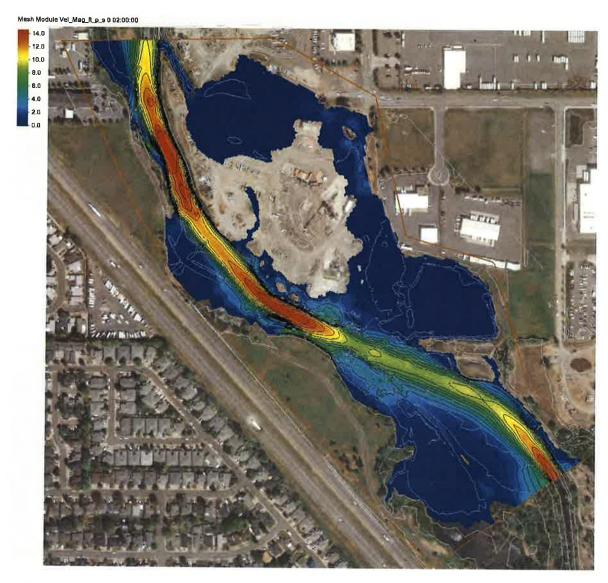


FIGURE 7. PROPOSED CONDITIONS VELOCITY CONTOUR MAP - 20500 CFS

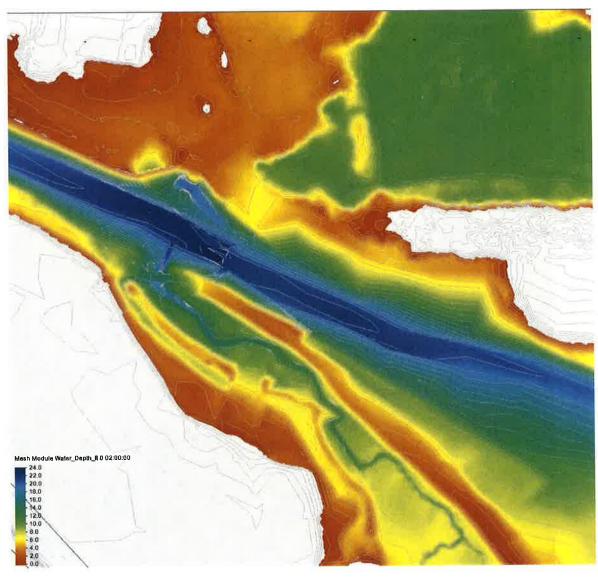


FIGURE 8. EXISTING CONDITIONS WATER DEPTH

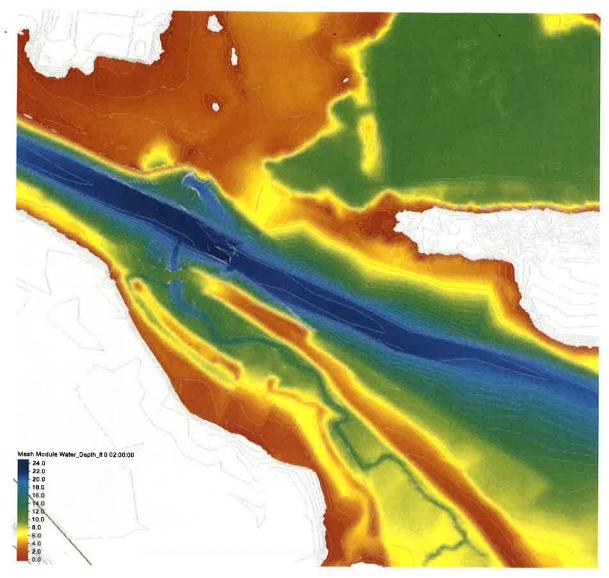


FIGURE 9. PROPOSED CONDITIONS WATER DEPTH



FIGURE 10. CONTOUR PLOT DIFFERENCE BETWEEN THE PROJECT AND EXISTING CONDITIONS WATER LEVELS

Moderate Flow: 1-Dimensional Model Development

Elk Creek near the road crossing is influenced by water levels in Bear Creek. Cascade developed flow scenarios using a 1-dimensional hydraulic model to investigate these impacts for flows ranging from 1000 cfs to 5000 cfs in Bear Creek and a flow of 264.1 cfs in Elk Creek, Central Point's 10 AEP peak flow estimate for Elk Creek. Figures 11 and 12 show the model domain near the project area. Figures 13 and 14 show water surface profile along Elk Creek. Model results show the existing culvert capacity is insufficient to convey the Elk Creek 10 AEP flow regardless of water levels in Bear Creek. The proposed culvert will convey the Elk Creek 10 AEP without overtopping when Bear Creek flows are 3000 cfs or less. For both existing and project conditions, Bear Creek backwaters into Elk Creek at flows of 5000 cfs and greater. During these flows, the culvert crossing has little impact on water levels in Bear or Elk Creeks.

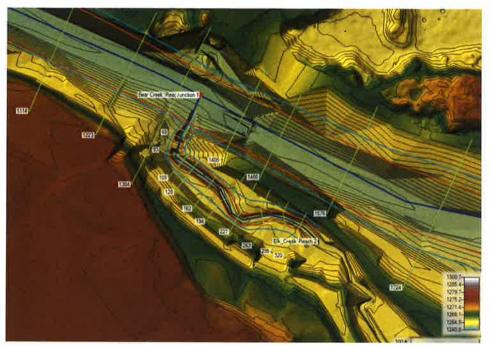


FIGURE 11. EXISTING CONDITIONS MODEL NEAR PROJECT AREA



FIGURE 12. PROJECT CONDITIONS MODEL NEAR PROJECT AREA

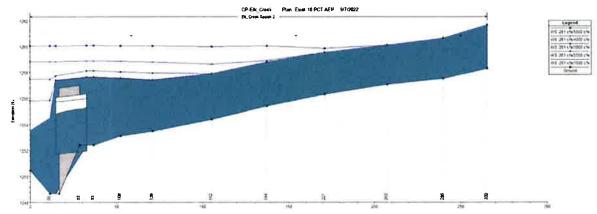
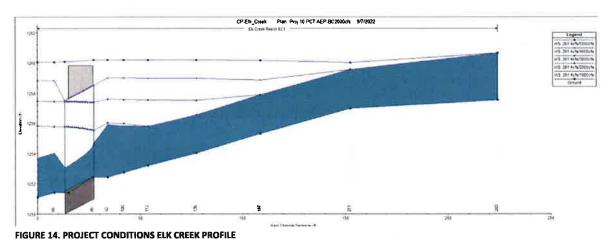


FIGURE 13. EXISTING CONDITIONS ELK CREEK PROFILE



SUMMARY

Based on Cascade's analysis, model results illustrate the crossing at Elk Creek has no impact on flood flows in Bear Creek when Bear Creek flows exceed about 5000 cfs. At FEMA's estimate of the 1 AEP of 20500 cfs, the culvert crossing has no impact on base flood elevations. For these reasons, Cascade believes this project does not adversely impact water levels. This letter conveys assurance that the proposed project to enhance fisheries as analyzed by Cascade keep any rise in the 100-year flood level as close to zero as practicable given the enhancement project goals. As a result, rise affects are localized and do not encroach upon insurable structures.

If you have questions or need further assistance please do not hesitate to contact Joey Howard at Cascade Stream Solution, telephone 541-864-0492.

Attachment A: Preliminary Design Plans





CITY OF CENTRAL POINT

ELK CREEK CULVERT REPLACEMENT

PRELIMINARY REVIEW PRELIMINGS

- SUMMER 2022

DRAWING INDEX

PROJECT VICINITY MAP

SITE ACCESS MAP

PROJECT

CENTRAL POINT

HVWKICK KD

SHEET NO.	SHEET TITLE	DWG NO
,	COVER	COA
2	CONTRA VOTES	169
.3:	DEMOLITION PLAN	8
•	PROPOSED SITE PLAN	202
	CRADING PLAN (10 BE PROVIDED IN SUBSEQUENT SUBMITTAL)	
5	PROPOSED STREAMBED SECTIONS	603
*	101415 - \$4671 OF 4	100
7	UCMS - DET 2 OF 4	200
. 0	DETAILS - SHEEL 3 OF 4	500
	ACTAL COURT COLUM	304

REPORT SPILLS	N OREGON LAW REQUIRES THAT SPILLS BE REPORTED TO THE FOLLOWING
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OREGON EMERGENCY RESPONSE SYSTEM THE NATIONAL RESPONSE CENTER.

CONTACT	* AGENCY	PHONE
GRFG GRAVES	CITY OF CENTRAL POINT	(541) 664-3321 x22
TYLER DUNCAN P.E.	RH2 ENGINEERING	(541) 326-4448
NICK BAKKE	RVSS	(541) 727-5874
FRICCHASE	SPECTRUM	(541) 210-0827
RYLAN WOOD	PACIFIC POWER	(541) 858-3204
ELI HABERMAN	AVISTA	(541) 690-0901
CAMCOON DIDETTA	LIMEN	P620-825 (1957)

CONTACT PERSONNEL

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ELI HABERMAN	AVISTA	(541) 690-0901
CAMERON DIBETTA	LUMEN	(541) 324-0549

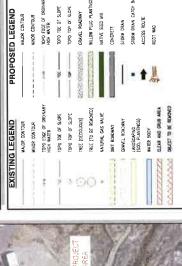
SECTION AND DETAIL REFERENCES

PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE» REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

SECTIONOGEN, REFERENCE NUMBER COMPUTIONS SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ID = SECTIONIDETAIL REFERENCE NUMBER ## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.





CALL 48 HOURS BEFORE YOU DIG	ATTENTION OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE GREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN DAR 952-031-0010 THROUGH
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CONTRACTOR TO MOVE EXISTING
K-RAIL BLOCKADES TO ACCESS SITE
AND REPLACE UPON COMPLETEION
OF PROJECT

CONTRACTOR TO PROTECT EXISTING BEAR CREEK GREENWAY PAVEMENT FROM TRACKED EQUIPMENT

HOLIDAY INN EXPRESS & SUITES 285 PENINGER RD CENTRAL POINT, OR 97502

OAR 952-001-0090 YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT S03-022-1978

LEGEND

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at points where existing thrust blocord is foling, withhum horizontal dearance between the concrete blocking and other burge utilities or structures shall be 5 feet.

DEMOLITION NOTES

requests by the contractor for changes to the plays must be approved by RH2 diginering. Inc. before changes are implemented.

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ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE PRE—QUALIFIED, SEE SPECIFICATIONS FOR

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The contractor shall notify transfer diffical, a annual of 48 hours in advance of any pramed dorsaltion to utuites inclorace, but not united to where, sener, andare, cas, incoming the contract and ties office.

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N PROPERLY CONTRACTOR & RESPONSE FOR DELANGE ANY OTHER REQUIRED ON RELATED FEMAL

PROPERTY OF BEHAVIOR CONTRACTION.

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GENERAL NOTES

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<u>METLAND DELINEATION REPORT.</u> A WETLAND DELINEATION REPORT WAS PREPARED FOR THIS PROJECT BY RASE CONSULTING.

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FERENCES SEARCE A TODOZNAME, SURVEY WAS PREPARED FOR THIS PROJECT BY PARIAMI SURVEYING, LLC SEE SEARCE A TODOZNAMEN SURVEY WAS PREPARED FOR THIS PROJECT BY PARIAMI SURVEYING, LLC

THE CONTROLLS ON I BE RESPONSILE FOR COMPLING WITH THE PROMISIONS OF ALL APPLICABLE PER SECULATION ALTHORISERY. AND THE CONTROLL ISSUED BY THE CITY OF CONTROL POINT AND OTHER RECLAPTIONY ALTHORISERY.

all Building Waterals, workwarshp. Design and construction stall compora to these draffings, specifications, and oregon specialty codes, latest edition.

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CAPITEM.

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ABBREVIATIONS

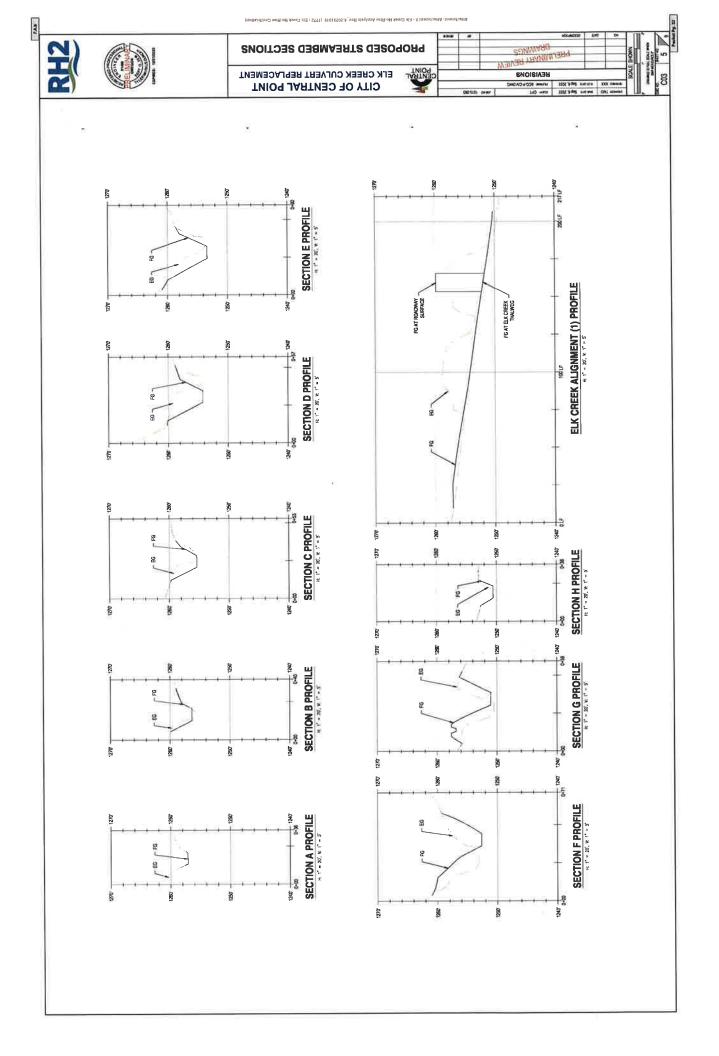
TOPOGRAPHIC SURVEY WAS PERFORMED BY NEATHAMER SURVEYING INC., WITH FIELD WORK COMPLETED ON FEBRUARY 1, 2022

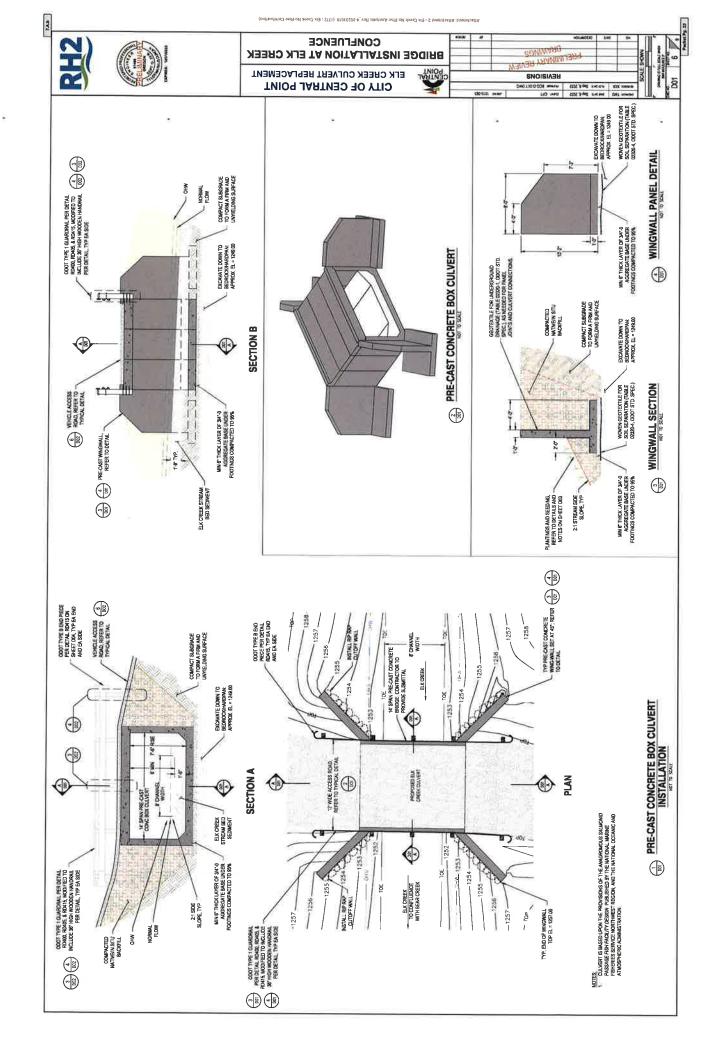
THE BASIS OF VERTICAL CONTROL FOR THIS SURVEY IS THE MORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 89) (CITY OF CENTRAL POINT) VIA RTY GPS OBSERVATIONS.

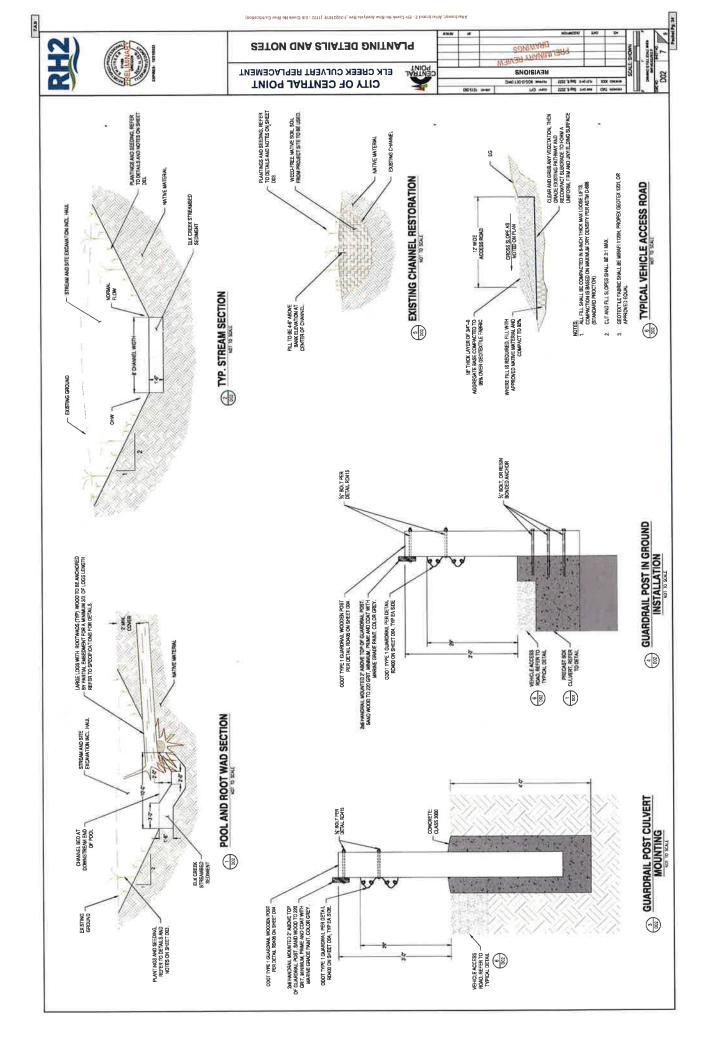
SURVEY NOTES

THE BASIS OF BEARING FOR THIS SURVEY GEODETIC MORTH REFERBACED TO THE MORTH AMERICAN BALL OF 1981 MAIRS 2011 JUSING THE OREGON GOORDINATE REFERBACE SYSTEM GRANT IS PASSE. ASHALMO ZONE.

THE PROPERTY LINES SHOWN HEREON ARE APPROXIMATE AND NOT THE RESULT OF A BOUNDARY SURVEY,













CITY OF CENTRAL POINT







ALL PLATING SHALL BE COUPLETED BY A LOCAL, LANDSOLPE CONTRACTOR WITH AT LEAST 5 YEARS OF DEPRENEES. IN MINE THE VANT AND SENSITIVE, AFEA SESTORMING. INVAINE SPECES REDOM, AND THE TABLIBLES SHALL AND SECONDETED BY A LANDSOLPE CONTRACTOR LICENSED AND EXPERIENCED IN THE LARSE TREATMENT WE PRODUCED.

OREGON ASI TREES WILL BE PLANTED ALONG THE BANKS ABOVE THE OHW. ALL TREES INSTALED SHALL RECEIVE A JAKCHTGH BY FACOT DAMETEN, WANDPACKED BULLOK WATERNOE BASN. THE THANTED ON STEEP BANKS OF RESTORED CHANNEL IN BETWEEN DISSTING ROCKIPARAP.

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	TYPE	OREGON ASH	MILDIN STANDS	EN CEN	NORTI	CORNORNAME	TUTTO HARDRASS	SCHOOL HARDINGS	MEADOW BANEEY	SMC BOYTSASS	COMMON RICES	THE REAL PROPERTY.

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REMOVE PLANT CAREFULLY FROM CONTAINER AND ROUGHEN SOIL AND OLTER INCH OF ROOTBALL

PLANTING PIT AMENDED WITH NATIVE SOIL
AND MEDIUM COMPOST, HAND-MIXED AT A
RATE OF 2.1, FIRMLY COMPACT SOILS
BELOW ROOTBALL TO AVOID SETTING

2x ROOTBALL DAMETER

S. <u>NSTALLATION</u>: COMPLETE PLANT INSTALLATION BY HAND IN ACCORDANCE WITH THE APPROVED PLANTING PLAN AND DETAILS.

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PLANTING AND SEEDING NOTES

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FINISHED GRADE

CONSTRUCT MULCH WATERING BASIN WEASURING 4" MINIM, IN HEIGHT AND Z DAMETER, DO NOT ALLOW MULCH TO TOUCH TRUNK

DECIDIOUS TREE PLANTING DETAIL



LIVE STAKE OR POLE PLANTING INSTRUCTIONS

I LUG STAKES SHALL BE'N TO SY NOVES IN DAMETER OVER THEM ENTIRE LINCTH AND ANNIMAN OF STEEL LOAD FOR SHALL BE, IN ADJESS IN DAMETER OF STEELS OF STEEL COAD STAKES SHALL BE PROVIDED WITH THE SEA TO BE PLANTED MAD ED AS SHOWN IN THE DETAIL.

2. LIVE STAKES AND POLES SWALL BE INSTALLED BY HAND, A PILOT HOLE SHALL BE DUG PPORT TO INSTALLATION (LISE SIMILAR), Y SIZED REBAR, T-BAR, OR HAND ALIGER FOR MAKING PILOT HOLES).

3. LIVE STAKES ARE HIGHLY PERISINBLE AND MUST BE STORED IN SYNDED, COOL, MOIST CONDITIONS PRIOR TO INSTALLATION, STAKES STORED SHALL BE COYERED IN BUIRLAP AND WETTED DALLY, STORE STAKES IN THIS MANNER FOR NO LONGER THAN TWO DAYS.

A: INSTALL STAKES SO THAT A MINIMUM OF 3, OF THEIR LENGTH IS BLYRED IN SOIL. BACKFILL PIT PER DETAILS THIS PAGE AND PACK SOIL AROUND STAKE FOLLOWING INSTALLATION

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Attachment B

Introduction

The City of Central Point reviewed the initial report dated 8 September 2022 and requested Cascade use the effective model to conduct a no-rise analysis to conform with their National Flood Insurance Program flood management obligations. Cascade complied with this request by recreating a portion of the effective model, developing a duplicate effective model, and creating a proposed conditions model to assess project impacts to water surface elevations. This attachment provides a discussion of this effort and provides model results.

Analysis

Cascade obtained a copy of the effective model from the FEMA archives. The model was provided as a pdf scan of the microfiche. RH2 and Cascade transformed the pdf into a digital text document. Cascade was unable to import the model into HEC-RAS and in lieu of recreating the entire model, recreated a portion of the model as described herein. Cross sections R, S, and T shown on the FIRM are labeled in the effective model as cross sections 1450, 1480, and 1500, respectively and shown in Figure 1. Sections 1450 (FIRM section R) and 1500 (FIRM section T) bound the project area. Cascade is unable to identify the significance of the cross section identifiers as the numbering system does not appear to reflect stationing in feet or river miles. Using the landmarks shown on the orthophoto background in the FIRM, Cascade located the sections. Cross section 1450 is located about 1400 feet upstream of the Pine Street Bridge and about 1600 feet downstream of the project. Cross Section 1480 is located about 270 feet upstream of the project, and Cross Section 1500 is located about 2100 feet upstream of the project. Figure 1 shows an excerpt of the FIRM with the cross sections located on the map.

The effective HEC-2 model sections were adjusted from their NAVD 1929 elevations to NGVD 1988 by adding 3.39 feet, as identified in Table 8: Vertical Datum Conversion in the effective FIS. The sections were compared to field surveyed topographic data and LiDAR data. The sections are shown in Figures 2, 3 and 4. The sections appear reasonably close to the present-day topography.

The effective model used Manning's n of 0.07 and 0.065 in sections 1450 and 1480 for the overbanks and channel, respectively. Manning's n of 0.065 and 0.060 were specified for the overbank and channel, respectively, at section 1500. These values are larger than the current vegetation and roughness conditions would warrant and appear higher than would be justified based on the 1976 aerial photograph (see Figure 5). Ineffective areas are not specified in the effective model, which are typically used to limit the cross section area used in the computations to areas that convey water and eliminate areas that may be inundated, but not actively convey water, such as the lower portion of a gravel pit or a backwater area.

Cascade developed reconstructed effective HEC-RAS model with three cross sections using sections 1450, 1480, and 1500 from the effective model. Using the parameters specified in the effective HEC-2 model and a starting water surface elevation of 1262.15, which was the computed water surface elevation at HEC-2 section 1450 (FIRM section R). The flow used to compute these water surface elevations is 21,400 cfs. The effective FIS lists a flow of 20,500 in Table 4. Summary of Discharges as the flow for 'At Medford (USGS Survey Gate (sic) No. 14357500). Cascade believes that it is likely Gage No.

14357500, not Gate No. 14357500 the table is referencing. Cascade used the higher flow of 21,400 cfs provided in the effective model to conduct the analysis.

Cascade's reconstructed model using the HEC-2 effective model cross sections produced results that were less than 0.3 ft different than the effective model adjusted to NAVD88. Results are shown in Table 1. These differences are due to the different computational schemes used in HEC-2 and HEC-RAS.

A corrective effective model, which is different from the recreated effective model, was created by inserting cross sections at Cascade Stations 1933.01, 2694.6, 2905.12, 3121.32, 3242.59, 3369.21, 3494.68, 3760.22. This model is intended to add additional cross sections to better resolve model geometry near the project site. Geometric data for these sections were derived from recent topographic field surveys and LiDAR surveys. Cascade's model station for the corrective effective model begins at the downstream end of the Pine Street Bridge, although the first cross section begins at FIRM cross section R. In other words, the reader can identify the location of the cross section by the distance measured from the downstream side of the bridge. Cross sections 1450 (FIRM R) and 1500 (FIRM T) from the effective HEC-2 model were left unchanged aside from increasing the elevations by 3.39 feet to adjust from NGVD29 to NAVD88. The corrective effective model was run and compared with the reconstructed effective model. Table 2 shows the effective model computed water surface is 2.58 feet lower at FIRM Section S than the corrective effective model. Adding the additional cross sections into the model provided better definition to allow the model to estimate the water surface more accurately between FIRM sections R and T under present-day conditions. Cascade does not have sufficient information to determine the reason for the discrepancies between the effective and corrective effective models. The differences may be due HEC-2 model cross sections not being placed at hydraulic controls or cross section spacing or there may have been earth moving activities that changed channel and floodplain morphology in the intervening years between FIRM sections R and S. The similarities between the HEC-2 and the present day sections and the 1976 aerial photograph (see Figure 5) suggest the HEC-2 model did not adequately locate the sections and had too few sections to accurately model losses between FIRM sections R and S.

The duplicate effective model water surface begins to converge with the effective model water surface elevation at FIRM section F. The duplicate effective computed water surface elevation at Firm section T is 0.66 ft higher than the effective model. The difference in water surface elevation (WSEL) between the reconstructed model and the corrective effective model at FIRM section T is 0.43 ft, which is a better comparison because these computed water surface elevations were both performed using the same hydraulic model, HEC-RAS. A workmap showing the HEC-RAS cross sections is provided in Exhibit B-1

Model results suggest to Cascade that the effective model does not reflect present day flood hazards.

A project conditions model was developed by modifying cross section 3121.32 to reflect the proposed crossing at Elk Creek. Table 3 shows the difference between the project conditions and duplicate effective conditions is less than 0.1 feet, which demonstrates the project has no impact on flood levels.

Discussion

Application of the effective model, corrective effective model, and proposed conditions model to assess potential changes impacts to water levels due to the project, Cascade has determined the project does not increase water levels. Furthermore, the effective model does not appear to accurately reflect present day flood conditions with a 1 percent annual probability of occurrence.

However, comparison of the duplicate effective model and the proposed conditions model results which were run using the same parameters allows Cascade to conclude that the proposed project impacts a small section of Bear Creek and does not impact flood levels nor increase the base flood elevations developed by FEMA. This finding is in agreement with the original analysis described int Cascade's Technical Memorandum dated September 7th 2022, which presented a more robust and accurate simulation of current conditions within this reach of Bear Creek.

In conclusion, Cascade determines that having used two different modeling methods for this reach of Bear Creek to simulate pre- and post-project conditions, that this project impacts a small portion of Bear Creek and does not impact flood levels, nor does it increase the base flood elevations. There is no rise due to the project.

Table 1. Comparison between HEC-2 and Reconstructed Model

		HEC-2,	HEC-2			Difference between
FIRM XS	HEC-2 XS	WSEL	+3.39		Reconstructed	HEC-2 +3.39 and
LABEL	NO.	(NGVD29)	(NAVD88)	FIRM	Model	Reconstructed Model
T	1500	1271.25	1274.64	1274.7	1274.87	-0.23
S	1480	1267.79	1271.18	1271.2	1271.46	-0.28
R	1450	1260.76	1264.15	1264.2	1264.15	0

Table 2. Comparison Between Effective HEC-2 Model and Duplicate Effective Model

	Casi	cade HEC-	Q	Duplicate Effective	Effective Model	Effective Model WSEL -
FIRM XS		River Sta	Total	WSEL	WSEL	Duplicate Effective WSEL
	1,,,,,,	Till Ota	(cfs)	(ft)	(ft)	(ft)
Т	10	51+90.26	21400	1275.3	1274.64	-0.66
	9	37+60.22	21400	1273.88		
	8	34+94.68	21400	1273.81		
S	7	33+69.21	21400	1273.76	1271.18	-2.58
	6	32+42.59	21400	1273.72		
	5	31+21.32	21400	1273.52		
	4	29+05.12	21400	1272.63		
	3	26+94.60	21400	1272.11		
	2	19+33.01	21400	1267.36		
R	1	14+96.50	21400	1264.15	1264.15	0

Table 3. Comparision between Duplicate Effective Model and Proposed Model

		Case	cade	Corrective Effective	
FIRM XS	Effective HEC-2 XS No.	Stat	ioning	Model WSEL, ft	Proposed WSEL, ft
T	1500	10	51+90.26	1275.3	1275.3
		9	37+60.22	1273.9	1273.9
		8	34+94.68	1273.8	1273.8
S	1480	7	33+69.21	1273.8	1273.8

	3	6	32+42.59	1273.7	1273.7
		5	31+21.32	1273.5	1273.5
		4	29+05.12	1272.6	1272.6
		3	26+94.60	1272.1	1272.1
		2	19+33.01	1267.3	1267.3
R	1450	1	14+96.50	1264.2	1264.2

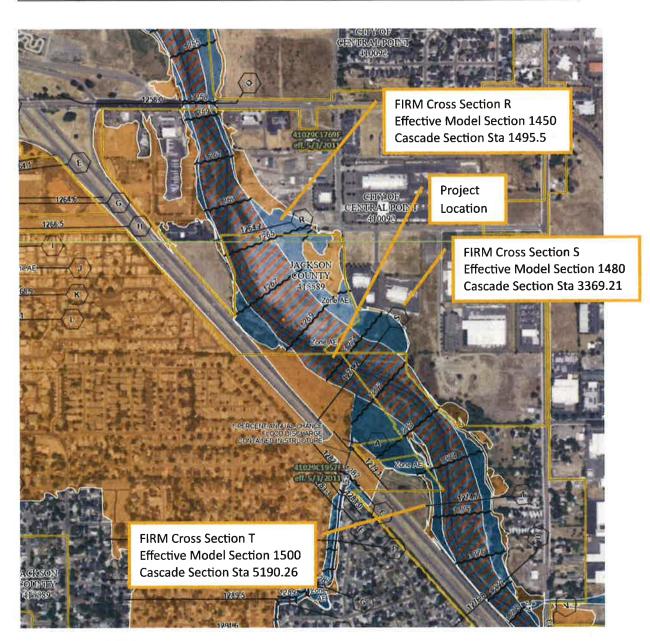


Figure 1. Excerpt of Effective FIRM

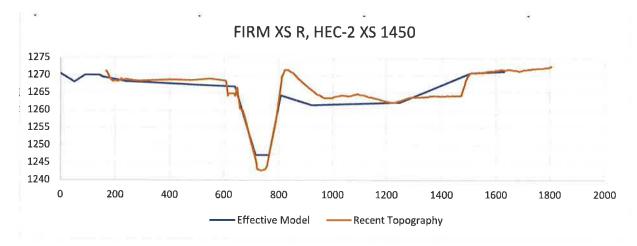


Figure 2. Comparison of Effective FIRM Cross Section R with recent topography

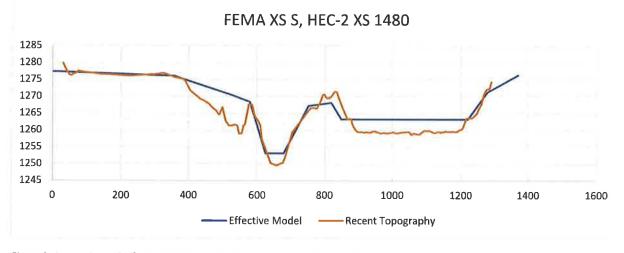


Figure 3. Comparison of Effective FIRM Cross Section S with recent topography

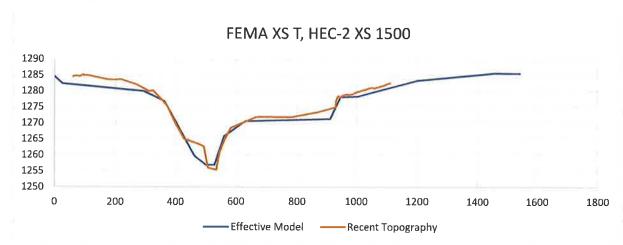


Figure 4. Comparison of Effective FIRM Cross Section T with recent topography

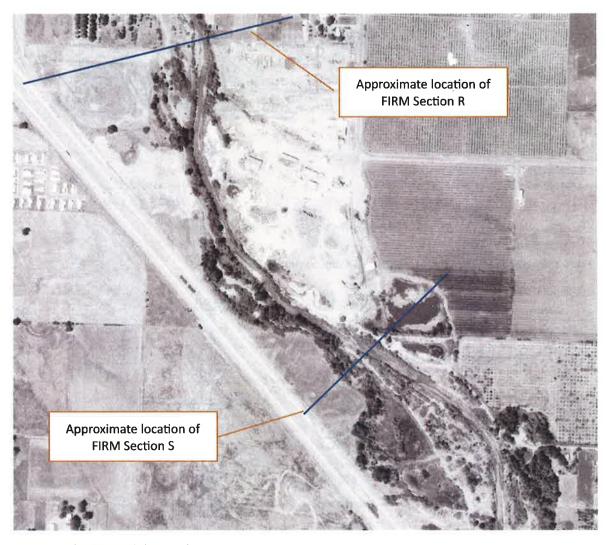


Figure 5. 6 July 1976 Aerial Photograph

FLOOD	OING SOU	RCE		FLOODWAY		WA	BASE F TER SURFAC (FEET I	CE ELEVATION	ON
CROSS SEC	TION DIS	TANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bear Cre	eek								
A		0	760	6080	4.0	1171.4	1171.4	1172.4	1.0
В		1100	790	3817	6.4	1173.2	1173.2	1174.1	0.9
C		1300	960	6386	3.8	1177.9	1177.9	1177.9	0.0
D		1900	1200	8812	2.8	1178.1	1178.1	1178.4	0.3
Е		3600	730	4066	6.0	1178.9	1178.9	1179.9	1.0
F	(5800	300	3605	6.3	1188.7	1188.7	1189.5	0.8
G	1	0400	320	1196	18.9	1198.4	1198.4	1199.0	0,6
Н	1	2500	320	3027	7.5	1204.8	1204.8	1205.7	0.9
I	1	5400	300	2352	9.6	1213.4	1213.4	1214.2	0.8
J	I	7300	220	1234	17.3	1218,7	1218.7	1219.3	0.6
K	l l	7800	140	2340	9.2	1222.1	1222.1	1222.2	0.1
L	1	8000	140	2107	10.2	1223.4	1223.4	1223.4	0.0
M	1	9900	175	2659	8.0	1232.8	1232.8	1233.2	0,4
N	2	1800	330	3488	6.1	1238.4	1238.4	1239.2	0.8
0	2	3300	470	3832	5.6	1242,8	1242.8	1243.7	0.9
P	2	4500	230	1981	10.8	1247.9	1247.9	1248.7	0.8
Q		6100	200	2591	8.3	1258.0	1258.0	1258.5	0.5
R	2	7500	480	2804	7.6	1264.2	1264.2	1265.1	0.9
S	2	9400	550	5095	4.2	1271.2	1271.2	1271.8	0.6
T		1250	422	3622	5.9	1274.7	1274.7	1275.7	1.0
U	3.	2260	236	2569	8.3	12/6.8	1276.8	1277.4	0.6
V		3040	155	1688	12.7	1283.3	1283.3	1283.3	0.0
W		5160	322	3407	6.3	1294.0	1294.0	1294.9	0.9
X		6460	144	1493	14.3	1302.2	1302.2	1302.2	0.0
Feet above K									
Table			Y MANAGEME COUNTY, O			FLO	ODWAY DA	TA	
ole 5			ORATED AR			В	EAR CREEK		

Figure 6. Table 4 from Effective FIS

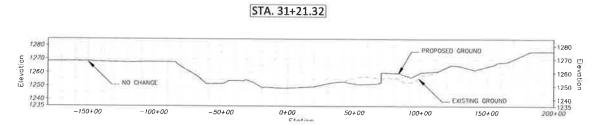


Figure 7. Cross Section Comparison at Project Site



FINDINGS OF FACT AND CONCLUSIONS OF LAW File No.: FP-23004

Consideration of a Floodplain Development Permit to Replace a Culvert and Complete Channel Improvements within the Elk Creek Floodway

Applicant:)	Findings of Fact
City of Central Point	j	and
Parks & Public Works Department	j	Conclusion of Law
140 S. 3 rd Street	ý	
Central Point, OR 97502	ý	

PART 1 INTRODUCTION

The applicant proposes improvements within the Elk Creek floodway including replacing a culvert to improve stream flow and create fish passage in low flow conditions by regrading the channel to eliminate a large drop in the grade.

The floodplain development permit is processed using Type III application procedures. Type III procedures set forth in Section 17.05.400 provides the basis for decisions upon standards and criteria in the development code and the comprehensive plan, when appropriate.

The project site is located in the Special Flood Hazard Area (SFHA) and floodway of Elk Creek. The standards and criteria for the proposal are set forth in CPMC 8.24, Flood Damage Prevention.

The following findings address each of the standards and criteria as applies to the proposed application for improvements within the regulatory floodway of Horn Creek.

PART 2 FINDINGS & CONCLUSIONS

Section 8.24.200 Development in Regulatory Floodways.

Located within areas of special flood hazard established in Section 8.24.070 are areas designated as regulatory floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters, which carry debris, potential projectiles, and erosion potential, development will not normally be allowed within the floodway except when it can be demonstrated the following provisions are satisfied:

A. Except as provided in subsections E and F of this section, encroachments including fill, new construction, substantial improvements, and other development are prohibited unless certification by an Oregon registered professional civil engineer is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that such encroachment shall not result in any increase in flood levels during the occurrence of the base flood discharge;

Finding 8.24.200(A): The applicant submitted a No Rise Certification as part of the application, certified by an Oregon registered professional civil engineer. Analysis of the proposed improvements examined the existing conditions in the project area compared to potential changes in flows and flood heights following the completion of the proposed improvements. The analysis is

consistent with FEMA guidance¹ and demonstrates the project does not result in any increase to flood levels.

Conclusion 8.24.200(A): Consistent,

- B. Provided that the conditions in subsection A of this section are met, the following additional provisions shall apply:
 - 1. Floodplain development construction standards provided in Sections 8.24.250 and 8.24.260 are met;
 - 2. Any fill allowed to be placed in the floodway shall be designed to be stable under conditions of flooding, including rapid rise and rapid drawdown of floodwaters, prolonged inundation, and flood-related erosion and scour;
 - 3. No manufactured dwelling shall be placed in a floodway except in an existing mobile home park or an existing mobile home subdivision, as conditionally approved by the local administrator or designee in consideration of the conditions of Section 8.24.250(H);

Finding 8.24.200(B): The project proposes to replace an existing culvert and establish a natural gradient within the banks of Elk Creek by sinking the culvert into the channel and grading a natural channel bottom through the length of the culvert, eliminating a barrier to fish passage. Work within the channel includes replacing the existing culvert that is undersized for high flow scenarios with a large drop in gradient that prevents fish migration, along with sizing the channel to provide capacity in high flow scenarios and eliminating a sharp bend that reduces bank erosion.

The project does not include structures, manufactured dwellings, utilities, tanks, fences or other development as defined in Sections 8.24.250 and 8.24.260.

Conclusion 8.24.200(B): Not applicable.

- C. The following activities are prohibited in the regulatory floodway:
 - 1. Fences and walls as provided in Sections 8.24.260(A)(1) and 17.57.030; and
 - 2. Accessory structures as provided in Section 8.24.250(J);

Finding 8.24.200(C): As noted above the project proposes to replace an existing culvert within an existing channel and reestablish the natural channel upstream and downstream of the culvert. The project does not include fences, walls or accessory structures within the floodway.

Conclustion 8.24.200(C): Not applicable.

D. In limited circumstances encroachments associated with functionally dependent uses (i.e., bridges, roads, culverts); historic structure reconstruction, restoration and rehabilitation; and stream restoration projects as provided in subsection F of this section and Section 8.24.270(B)(2)(f), that cause an increase to the BFE are allowed; provided, that the applicant demonstrate that no other alternative is available. In such circumstances, applicants shall obtain a CLOMR from FEMA before an encroachment, including fill, new construction, substantial improvement, and other development in the floodway, is permitted that will cause

¹ FEMA, 2013. Procedures for "No-Rise" Certification for Proposed Developments in the Regulatory Floodway. Letter Report Prepared by FEMA Region X, Bothell, WA. October.

any increase in the BFE, unless the development causes a temporary encroachment and conditions in subsection E of this section and the floodplain development construction standards provided in Sections 8.24.250 and 8.24.260 are satisfied;

Finding 8.24.200(D): By replacing an under-sized culvert and establishing a natural channel within Elk Creek, the project improves flows within the channel and provides fish passage through the project area, including low flow conditions that were obstructed by the existing culvert. As noted above, the application includes a No Rise Certification comparing existing conditions to potential changes in flows and flood heights following the proposed changes. The analysis demonstrates the proposed project does not aggravate flood conditions, resulting in a measurable decrease to the base flood elevations along Elk Creek.

Conclusion 8.24.200(D): Consistent.

- E. Temporary encroachments in the regulatory floodway for the purposes of capital improvement projects, including bridges and culverts, may be permitted if the encroachment results in an increase in flood levels during the occurrence of the base flood discharge; provided, that a conditional letter of map revisions (CLOMR) is applied for and approved by the Federal Insurance Administrator, and the requirements for such revision as established under Title 44 of the Code of Federal Regulations, Section 65.12 are fulfilled. Temporary encroachments shall comply with all other applicable flood hazard reduction provisions of this chapter and may be permitted when:
 - The project is limited as to duration with the days and dates that the structure or other development will be in the regulatory floodway, as specified in the floodplain development permit;
 - 2. Accessory structures (i.e., construction trailers) are restricted from the regulatory floodway;
 - 3. The project limits placement of equipment and material in the regulatory floodway to that which is absolutely necessary for the purposes of the project. Justification that demonstrates compliance with this requirement will be documented by the applicant in the required floodplain development permit application submittal documentation;
 - 4. The applicant identifies any insurable structures affected by temporary changes to the area of special flood hazard or BFE and notifies owners of any increased risk of flooding. Documentation demonstrating compliance with this provision shall be provided to the city as part of the floodplain development application; and
 - 5. The project applicant is provided with written notification that they may be liable for any flood damages resulting from the temporary encroachment;

Finding 8.24.200(E): The proposed project is not a temporary encroachment into the floodway for a capital improvement project. Furthermore, the No Rise Certification demonstrates the project does not result in an increase to the base flood elevation or aggravate flood conditions.

Conclusion 8.24.200(E): Not applicable.

F. Projects for stream habitat restoration may be permitted in the floodway, provided:

- 1. The project qualifies for a Department of the Army, Portland District Regional General Permit for Stream Habitat Restoration (NWP-2007-1023);
- 2. The project does not result in a potential rise in the flood elevation;
- 3. A conditional letter of map revisions (CLOMR) is applied for and approved by the Federal Insurance Administrator for any rise in the base flood levels, and the requirements for such revision as established under Title 44 of the Code of Federal Regulations, Section 65.12 are fulfilled; and
- An agreement to monitor the project, correct problems and ensure that flood carrying capacity remains unchanged is included as part of the local floodplain development approval.

Finding 8.24.200(F): By replacing an undersized culvert, reestablishing a natural channel, and eliminating a small structural barrier, the project will enhance fish passage along this reach of Elk Creek. As part of documentation and permitting, the applicant submitted a General Permit for stream habitat restoration from the Department of the Army. As noted above, the project does not result in an increase to base flood elevations nor aggravate flood conditions. Therefore, a conditional letter of map revision (CLOMR) is not required.

Through the drainage channel maintenance program, in accordance with CPMC 8.28, the City ensures the maximum conveyance of water and protects and enhances the natural and beneficial uses of waterways within the City. The program includes annual inspections to ensure the channels are free from obstructions, identifies areas with excessive nonnative vegetation, erosion, and bank failures, and maintains records of overall drainage and channel conditions.

Conclusion 8.24.200(F): Consistent.

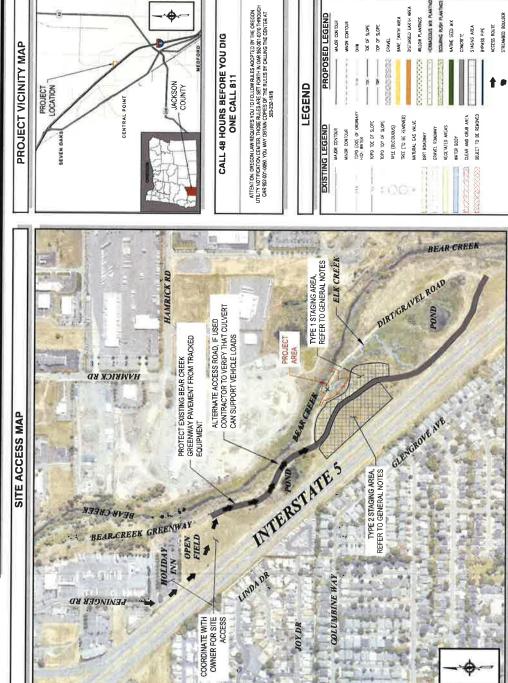
PART 3 SUMMARY CONCLUSION

As evidenced in findings and conclusions, the floodplain development permit for the proposed Elk Creek No Rise Certification is consistent with applicable standards and criteria in the Central Point Municipal Code as conditioned.



CITY OF CENTRAL POINT

ELK CREEK CULVERT REPLACEMENT



DRAWING INDEX

- SUMMER 2024

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REPORT SPILLS	TTENTION: OREGON LAW REQUIRES THAT SPILLS BE REPORTED TO THE FOLLOWING ENTITIES	OREGON EMERGENCY RESPONSE SYSTEM

CONTACT PERSONNEL

CONTACT	AGENCY	PHONE
GREG GRAVES	CITY OF CENTRAL POINT	5411 864 3321 x225
TYLER DUNCAN, P.E.	RH2 ENGINEERING	
NICK BAKKE	RVSS	55411 777 6834
ERIC CHASE	SPECTRUM	5417 210 0527
RYLAN WCOD	PACIFIC POWER	PART 868-1704
ELI HABERMAN	AVISTA	1000000
CAMERON DIRECTA	LUMEN	PS411 354,0549

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RYLAN WCOD	PACIFIC POWER	65411 856-3704
ELI HABERMAN	AVISTA	5X13 BBC 0301
CAMERON DIBETTA	LUMEN	(541) 304-0549

SECTION AND DETAIL REFERENCES

PLAN REFERENCE BUBBLE - RÉFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.



DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

ID = SECTIONDETAIL REFERENCE NUMBER ## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES,

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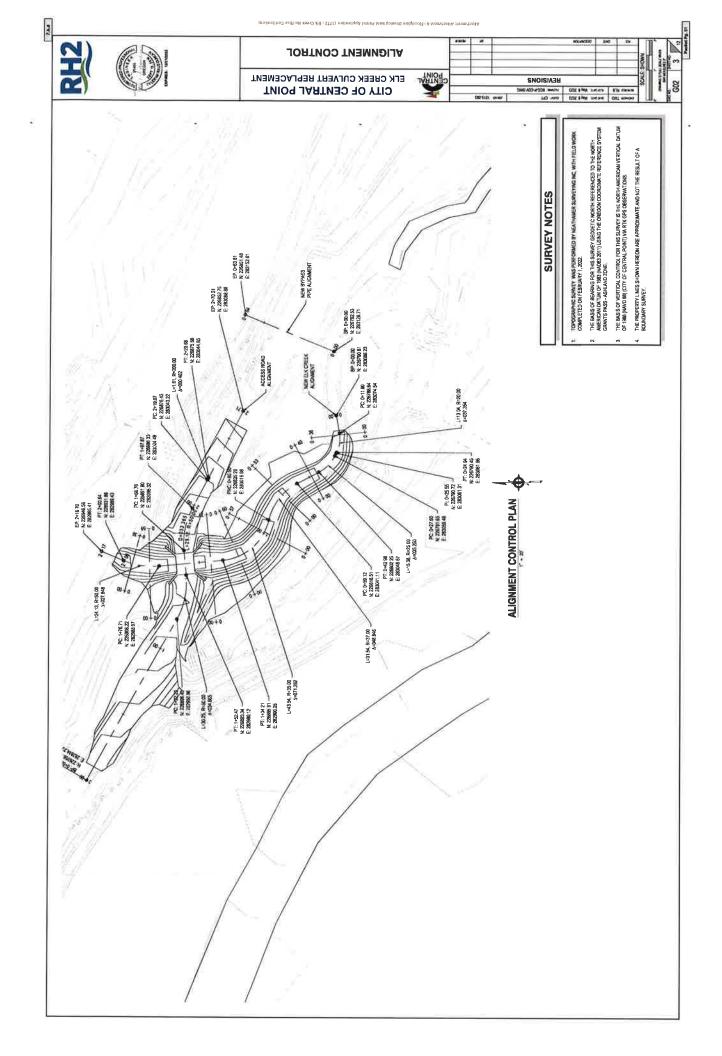
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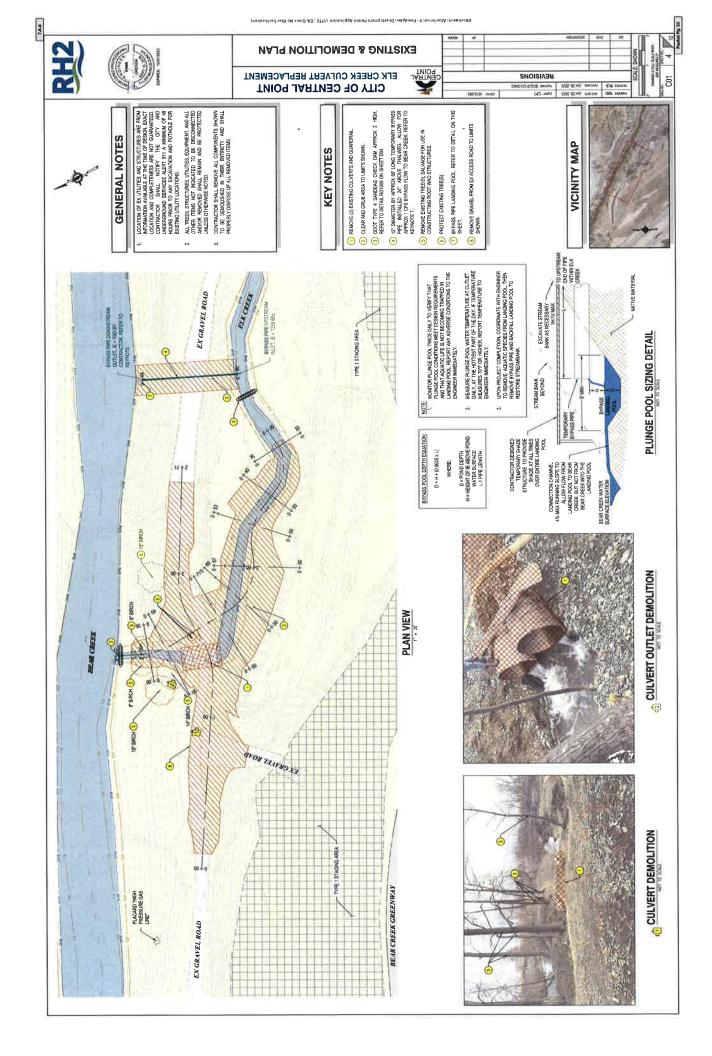
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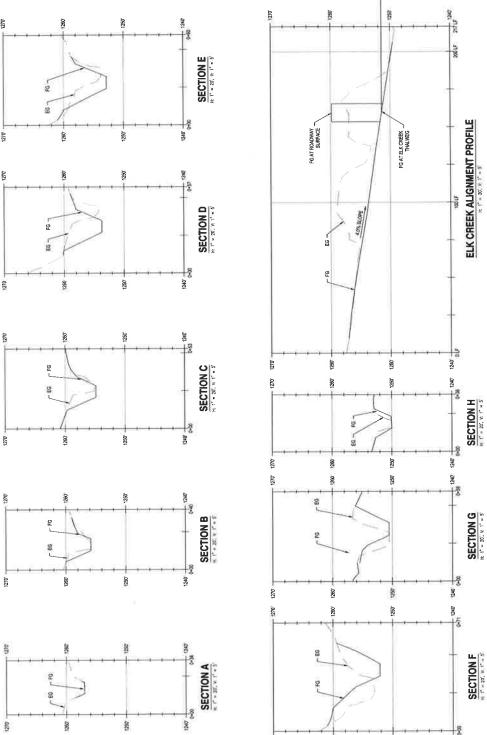
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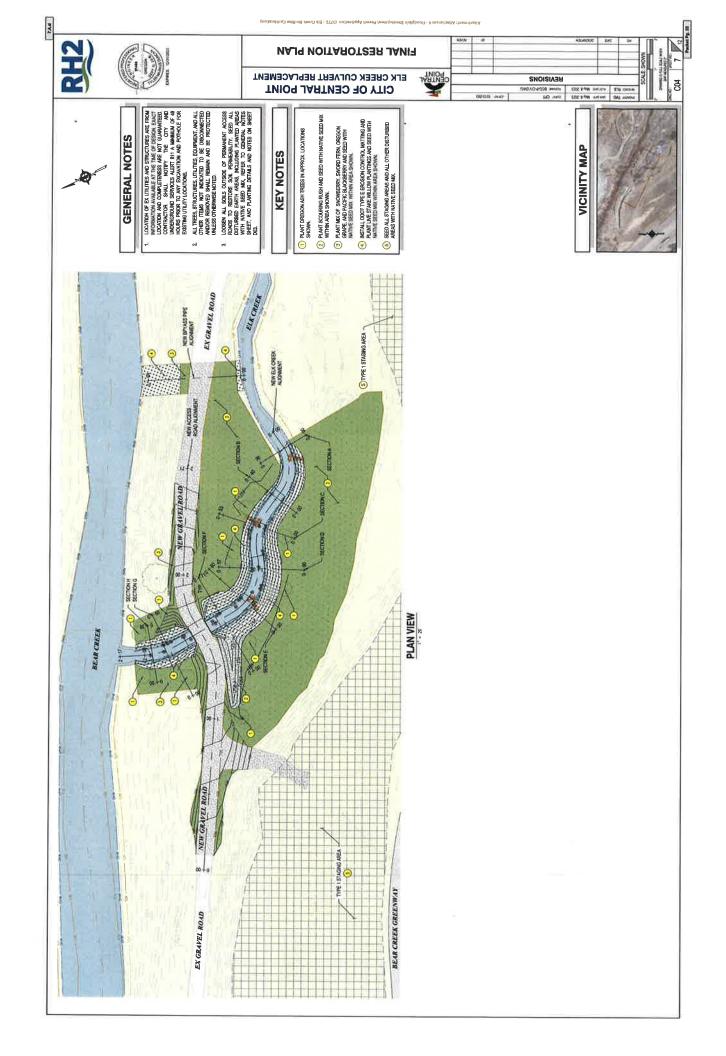
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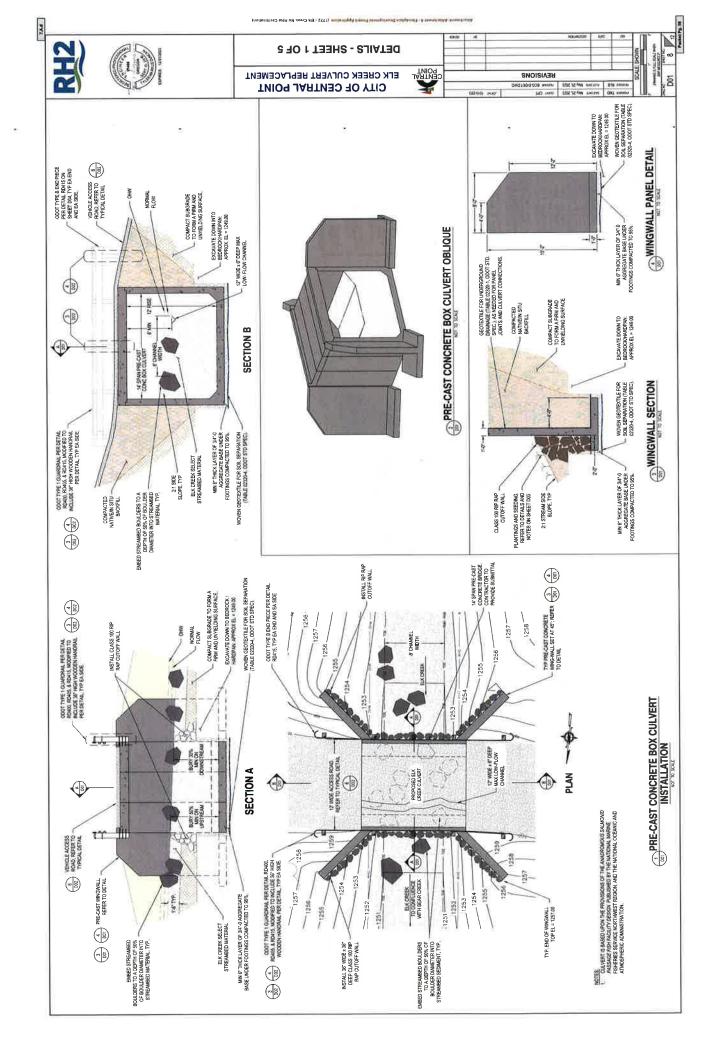
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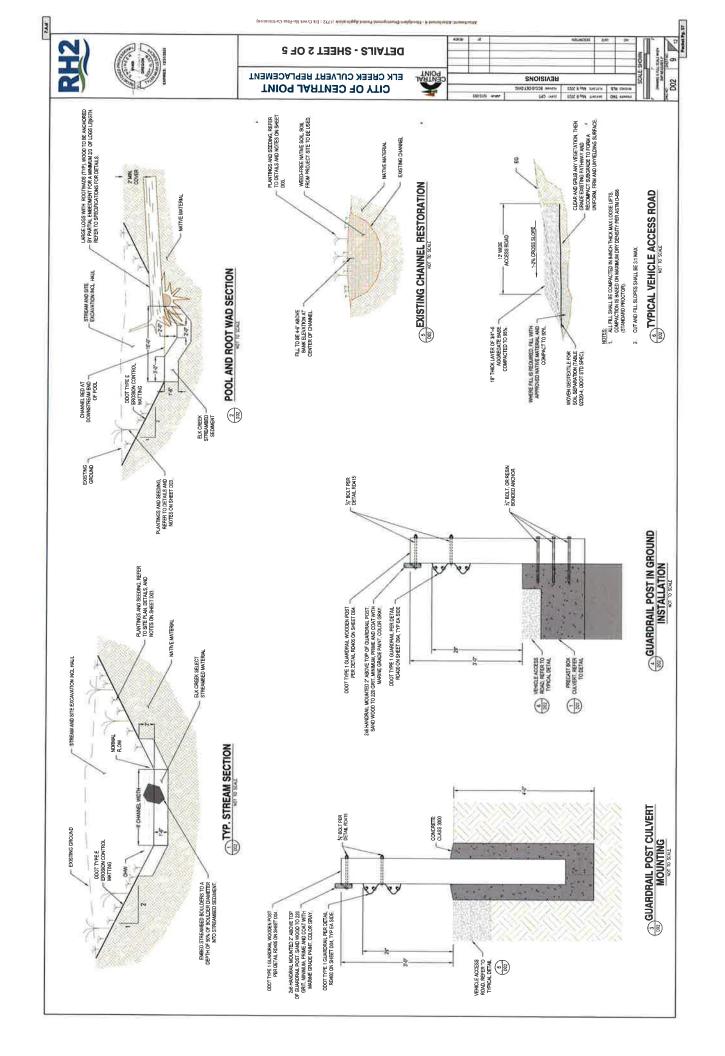












DETAILS - SHEET 3 OF 5



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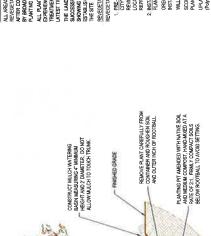
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DECIDIOUS TREE PLANTING DETAIL



LIVE STAKE OR POLE PLANTING DETAIL NOT TO SEALE

LIVE STAKE OR POLE PLANTING INSTRUCTIONS

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- LIVE STAKES ARE HIGHLY PERSHABILE AND MUST BE STORED IN SHADED, COOL, MOSI COOL, MOSI COOL STAKES STORED SHALL BE COVERED IN BHENDA AND WETTED DALK STORES SHALL BE COVERED IN BHENDA AND WETTED DALK STORE STAKES IN THIS MANKER FOR ND LONGER THAN 1700 DAYS.
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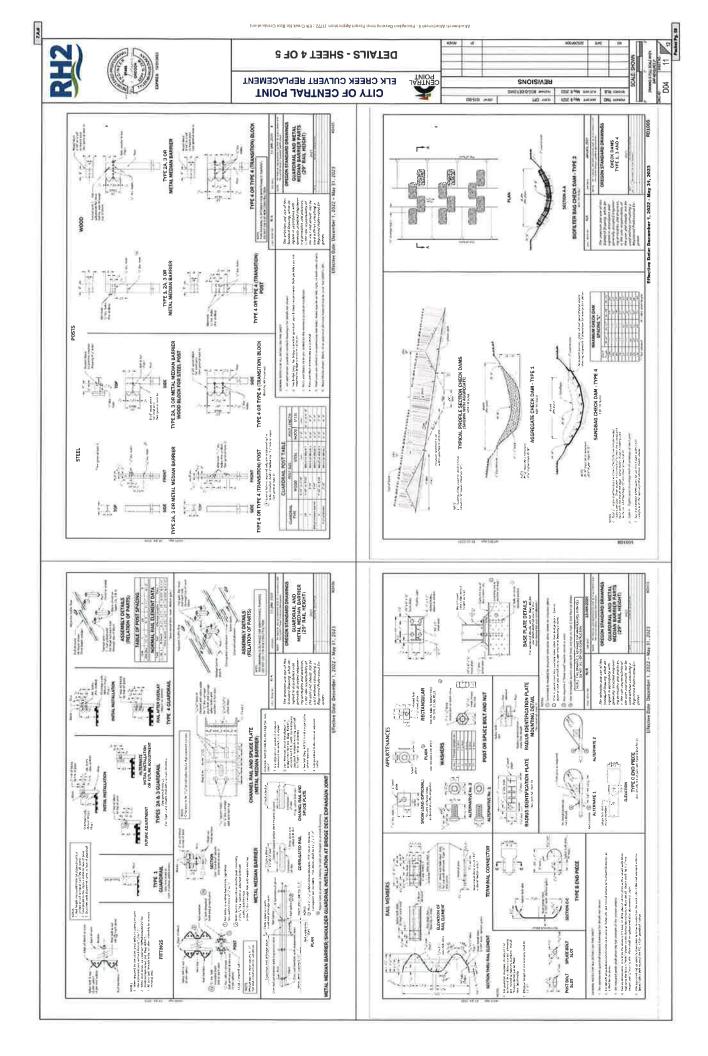
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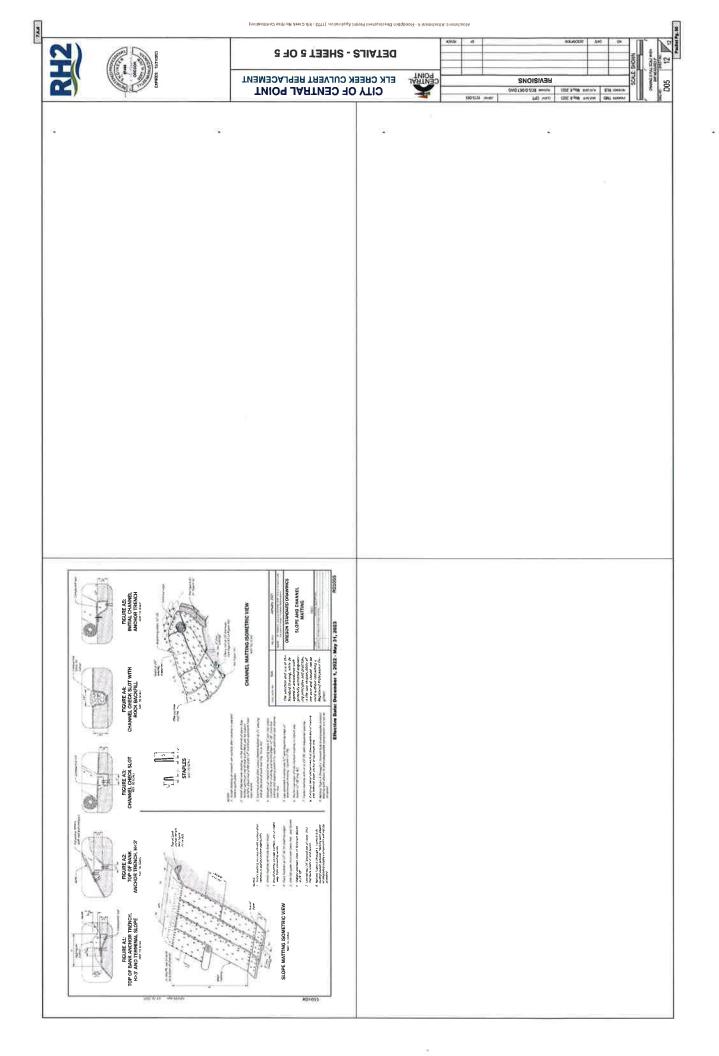
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SYOMBERRY (Symphoricorpos abus)	17,400 SQ, FT.	104 61 157 15 15 17
SWORD TERN (Polystichum munitum)	17,400 SQ. FT	1 GAL @ 1 PER 24 SQ. FT.
OREGON CRAPE (Mahania aquifolium)	17,400 S0 FT.	1 OC 0 1 PGF 7N SD: FT.
PACING SEACHSCRIP (Haber writina)	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ, FT.
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ATTACHMENT 5

RESOLUTION NO. 914

A RESOLUTION APPROVING A FLOODPLAIN DEVELOPMENT PERMIT/NO-RISE CERTIFICATE FOR CULVERT REPLACEMENT AND CHANNEL IMPROVEMENTS WITHIN THE ELK CREEK FLOODWAY

(File No: FP-23004)

WHEREAS, the applicant has submitted a Floodplain Development application and No-Rise Certification to complete improvements in the channel of Elk Creek to establish a natural channel and improve flows in the creek by replacing an existing culvert.

WHEREAS, the No-Rise Certification was prepared in accordance with FEMA's Guidance for "No-Rise/No-Impact" Certification for Proposed Developments in Regulatory Floodways; and

WHEREAS, the No-Rise Certification confirms that the proposed improvements will not increase the base flood elevation or floodway profiles relative to the effective FEMA mapping; and

WHEREAS, on December 5, 2023, at a duly noticed public hearing, the City of Central Point Planning Commission considered the Applicant's request for floodplain development approval for the Elk Creek Floodplain Development Permit/No Rise Certification (the "Project"); and,

NOW, THEREFORE, BE IT RESOLVED that the City of Central Point Planning Commission by Resolution No. 914 hereby approves the Elk Creek Floodplain Development Permit/No-Rise Certification based on the Staff Report dated December 5, 2023, including all attachments thereto hereby incorporated by reference (Exhibit "A"); and

PASSED by the Planning Commission and signed by me in authentication of its passage this 5th day of December, 2023.

	Planning Commission Chair	_
ATTEST:		
City Representative		



Staff Report

Climate Friendly Area (CFA) Study

December 5, 2023

Item Summary

Presentation of the Climate Friendly Area (CFA) Study prepared by the Rogue Valley Council of Governments in partnership with the City.

Staff Source

Stephanie Powers, Planning Director

Background

The City of Central Point and Rogue Valley Council of Governments completed a study of potential CFA locations (Attachment 1) in the City as necessary to comply with the Climate Friendly & Equitable Communities rulemaking in Oregon Administrative Rule (OAR) 660-012-0310(2). The rules aim to encourage climate-friendly development whereby residents, workers and visitors can meet most of their daily needs without having to drive. The rules facilitate this by requiring a high concentration of housing and employment within a multimodal CFA area, which is similar to the City's Transit Oriented Development (TOD) areas. Specifically, a CFA must:

- Contain 30% of the City's housing need;
- Be at least 25 acres in size and 750-ft wide:
- Support mixed-use development consistent with the requirements in OAR 660-012-0320;
- Be within existing or planned urban centers, such as downtowns, neighborhood centers, transit corridors or other similar districts; and,
- Be served by or planned to be served by high quality bicycle, pedestrian and transit services.

The CFA Study identified two (2) potential CFA boundary scenarios and included community engagement, equity analysis and anti-displacement mitigation strategy analysis.

At the December 5, 2023 meeting, staff will present the CFA Study to the Planning Commission as an informational item. The study has no legal requirement for the City at this time. Its purpose is to support our ability to designate a CFA by the end of 2024. Next steps include presentation to City Council for their acknowledgement acceptance, and submittal to the Department of Land Conservation and Development Department for review and approval. Once approved by DLCD, the City is required adopt CFA land use and zoning map and text amendments by December 31, 2024.

Action

No action is required by the Planning Commission. This is an informational item. Future meeting agendas will include land use applications to designate a CFA and adopt implementing regulations.

ATTACHMENTS:

1. Central Point Final Study Draft

Rogue Valley Council of Governments

P.O. Box 3275 Central Point, OR 9750 (541) 664-6674 Fax (541) 664-7927

City of Central Point Climate Friendly Area Study

> Produced by the Rogue Valley Council of Governments, in collaboration with the City of Central Point and 3J Consulting

> > 2023

Packet Pg. 64



Climate Friendly Area Project Staff

Stephanie Holtey, Planning Director, City of Central Point
James Schireman, Associate Land use Planner, RVCOG
Yazeed Alrashdi, Associate Transportation Planner, RVCOG
Scott Fregonese, Senior Project Manager, 3J Consulting



Disclaimer:

The following study analyzes CFA candidates within the City of Central Point and explores paths forward and potential scenarios should the city designate a Climate Friendly Area. By no means does this study alter the current zoning, land uses, or other development regulations governed by the City of Central Point.



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Rogue Valley Council of Governments

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Chapter 1: Climate Friendly Area Regulations and Methodology Background

Introduction

Rogue Valley Council of Governments, in collaboration with the City of Central Point and the project consultant 3J, is conducting a study of potential Climate Friendly Areas (CFA) in accordance with the Climate Friendly and Equitable Communities (CFEC) rulemaking (OAR 660-012-0310), which was initiated by the Land Conservation and Development Commission (LCDC) in response to Governor Brown's Executive Order 20-04 directing state agencies to take urgent action to meet Oregon's climate pollution reduction targets. The rules encourage climate-friendly development by facilitating areas where residents, workers, and visitors can meet most of their daily needs without having to drive. A CFA aims to contain a variety of housing, jobs, businesses, and services. A CFA also supports alternative modes of transit by being in close proximity to high-quality pedestrian, bicycle, and transit infrastructure.

Phase 1 of this project is the CFA study identifies candidate CFAs and analyzes what zones are most aligned to the CFEC rules, and what adjustments of them would be required.

Phase 2 will encompass the adoption of any necessary changes and the incorporation of a climate-friendly comprehensive plan element. Cities may use CFA areas from the study or any other qualifying area.

Climate Friendly and Equitable Communities Rulemaking

The Climate-Friendly and Equitable Communities rulemaking is part of Oregon's longstanding effort to reduce pollution from the transportation system, especially greenhouse gases that are causing a change in climate and associated weather-related disruptions, including drought, wildfires, and warming temperatures with greater variation overall.

The rules encourage climate-friendly development in Climate-Friendly Areas (CFAs). Other provisions of the rulemaking call for new buildings to support the growing electric vehicle transformation, reduce one-size-fits-all parking mandates, and increase local planning requirements to address critical gaps in our walking, biking, and transit networks. The rules ask communities to identify transportation projects needed to meet our climate goals.



Climate Friendly Areas Overview

A CFA is an area where residents, workers, and visitors can meet most of their daily needs without having to drive. They are urban mixed-use areas that contain, or are planned to contain, a greater mix and supply of housing, jobs, businesses, and services. These areas are served, or planned to be served, by high quality pedestrian, bicycle, and transit infrastructure to provide frequent, comfortable, and convenient connections to key destinations within the city and region. CFAs typically do not require large parking lots and are provided with abundant tree canopy.

A key component of Oregon's plan to meet our climate pollution reduction and equity goals is facilitating development of urban areas in which residents are less dependent on the single occupant vehicle. Before the automobile became common in American life, cities grew more efficiently, with a variety of uses in city centers and other areas that allowed for working, living, and shopping within a walkable or transit accessible area. Over the last 100 years, the automobile and planning practices have served to separate activities, creating greater inequities within cities and widespread dependence upon climate-polluting vehicles to meet daily needs. CFAs will help to reverse these negative trends, with some actions taking place in the short term, and others that will occur with development and redevelopment over time.

The rules require cities (and some urbanized county areas) with a population over 5,000, and that are located within Oregon's seven metropolitan areas outside of the Portland metropolitan area, to adopt regulations allowing walkable mixed-use development in defined areas within their urban growth boundaries. Associated requirements will ensure high quality pedestrian, bicycle, and transit infrastructure is available within these areas to provide convenient transportation options, and cities and counties will prioritize them for location of government offices and parks, open space, and similar amenities.

Implementation Timeline

The rules provide a two-phased process for local governments to first study potential CFAs, and then, in a second phase, to adopt development standards for the area, or areas, that are most promising.

Key CFA Study Dates:

- June 30, 2023 CFA Study Funding Expires
- December 31, 2023 CFA Studies Due
- December 31, 2024 Adopt CFA land use standards and any map changes*

^{*}Local governments may request an alternative date for the adoption of land use standards, as provided in OAR 660-012-0012(4)(c).

Goals

The purpose of this study is to identify candidate CFA areas that meet the size and locational criteria required by OAR 660-012-0310(1). Relevant zoning codes will be reviewed, and suggestions will be made regarding any changes that are necessary to bring zoning codes into compliance with CFEC rules. It is the intention of the project management team that the candidate CFA selection prioritize community context reflecting the most feasible zoning code changes, little to no infrastructure investment, and alignment with citizen interests. The City of Central Point may move forward with the identified CFA area(s) into Phase 2, or they can use what they learned from the study to choose a new area or areas for adoption.



Methodology

The methodology that was adapted to perform the CFA study was developed by the Department of Land Conservation and Development (DLCD). The Climate-Friendly Areas Methodology Guide goes over the steps to perform the CFA study. The study goes through each of the eight steps highlighted in the methodology guide, including locating and sizing CFA areas, evaluating existing code, identifying zoning changes, calculating CFA Capacity and equity analysis. While the technical analysis team was responsible for overseeing the steps reliant on GIS or analysis of the land use code, Step 1: Public Engagement Plan, was drafted and prepared by 3J Consulting.



The diagram above shows a workflow for conducting a CFA study. This is not the only order in which the Steps can be performed, but it is a recommended sequence for the purpose of clarity and efficiency.

In order to understand the context of the steps listed above, a summary of the rules, a CFA's purpose, and what requirements should exist or be adopted in CFA areas is necessary. According to DLCD, "a CFA is an area where residents, workers, and visitors can meet most of their daily needs without having to drive. They are urban mixed-use areas that contain, or are planned to contain, a greater mix and supply of housing, jobs, businesses, and services."

The following is a summary of the steps, rules, and regulations on the specifications of siting a CFA. The CFA designation process first requires a study of potential candidate areas, ultimately ending in an area(s) being designated as the City's Climate Friendly Area. This process, slated to conclude by December 2023, is known as phase 1. Phase 2: Adoption, requires that cities implement the necessary changes to the land use code to make the zones within the proposed CFA compliant with state regulations, as provided in OAR 660-012-0310 through -0320.

Community Engagement Plan

Please note that this step is planned, drafted, and prepared by 3J Consulting, in coordination with city staff and the technical analysis team. While the Community Engagement deliverables are distinctly separate from the technical CFA Study, this study does take into account the community feedback from public meetings throughout the study phases.

With that in mind, Local governments must develop a community engagement plan for the designation of CFAs that includes a process to study potential CFA areas and to later adopt associated amendments to the comprehensive plan and zoning code following the provisions of OAR 660-012-0120 through - 0130:

- Engagement and decision-making must be consistent with statewide planning goals and local plans
- Cities and counties must center the voices of underserved populations in all processes at all levels of decision-making, consider the effect on underserved populations, work to reduce historic and current inequities, and engage in additional outreach activities with underserved populations
- Cities and counties must identify federally recognized sovereign tribes whose ancestral lands include the planning area and engage with affected tribes

The community engagement plan must be consistent with the requirements for engagement-focused equity analysis in OAR 660-012-0135(3). Equity analysis is required for a variety of transportation planning actions under Division 12, including study and designation of CFAs. The purpose of an equity analysis is to identify potentially inequitable consequences or burdens of proposed projects and policies on impacted communities in order to improve outcomes for underserved populations.

The equity analysis must include robust public engagement, including a good-faith effort to:

- Engage with members of underserved populations to develop key outcomes, including reporting back information learned from the analysis and unresolved issues
- Gather qualitative and quantitative information from the community—including lived experience—on potential benefits and burdens on underserved populations
- Recognize where and how intersectional discrimination compounds disadvantages
- Analyze proposed changes for impacts on and alignment with desired key community outcomes and performance measures under OAR 660-012-0905
- Adopt strategies to create greater equity and minimize negative consequences
- Report back and share the information learned from the analysis and unresolved issues with people engaged

Locate and Size Candidate CFAs

Every potential CFA area must follow the Climate Friendly and Equitable Communities (CFEC) rulemaking OAR 660-012-0310 requirements in order to be properly located and sized. The rules regarding location for potential CFAs are universal for all cities, but cities with populations over 10,000 must size their CFA so that it is able to accommodate 30% of current and projected housing needs.

The rules of OAR 660-012-0310, CFEC, that must be followed in the location process of CFA areas are listed below:

- CFA locations must be able to support development consistent with the land use requirements of OAR 660-012-0320.
- CFAs must be located in existing or planned urban centers (including downtowns, neighborhood centers, transit-served corridors, or similar districts).
- CFAs must be served by (or planned to be served by) high quality pedestrian, bicycle, and transit services.
- CFAs may not be located in areas where development is prohibited.
- CFAs may be located outside city limits but within a UGB following OAR 660-012-0310 (e).
- CFAs must have a minimum width of 750 feet, including internal rights of way that may be unzoned.

While the allowed land uses and denser environment will largely influence to appearance of a CFA, development feasibility is another important criterion to consider. The area chosen to be CFA should not have infrastructure problems or limitations that could prevent the development indicative of Climate Friendly Areas from occurring. The infrastructure capacity of a candidate CFA will be discussed with city staff to determine if it is a sufficient choice or to move forward with another candidate area.

City population is the primary determinant regarding CFA requirements. There are two categories for sizing a CFA: cities over 5,000 and cities over 10,000 in population. Central Point's population falls under the second option for cities with populations greater than 10,000. Cities with a population greater than 10,000 must designate a minimum of one CFA that accommodates 30% of their current and projected housing, the overall area being at least 25 acres in size. In addition, all CFAs must have a minimum width of 750 feet.



In discussing CFA requirements with city staff, the technical analysis team opted to utilize the prescriptive standards as by DLCD. The following table 1 shows the prescriptive standards requirements that must be incorporated in the development code, in accordance with the City's population.

Table 1. Prescriptive Standards

Population	Minimum Residential Density	Max Building Height
5,001-24,999	15 dwelling units/net acre	No less than 50 ft
25,000-49,999	20 dwelling units/net acre	No less than 60 ft
50,000 or more	25 dwelling units/net acre	No less than 85 ft

Because the city of Central Point falls under the 5,001 – 24,999 category, phase 2 will require adoption of rules of 15 dwelling units/net acre minimum residential density and a maximum building height of no less than 50 ft in height.

Evaluate Existing Code

The land use requirements established in OAR 660-012-0320, as shown below, were pivotal in determining how much a base zone naturally aligned with CFA requirements. Zones that fail to meet all the standards of Cities and counties must incorporate all requirements into policies and development regulations that apply in all CFAs.

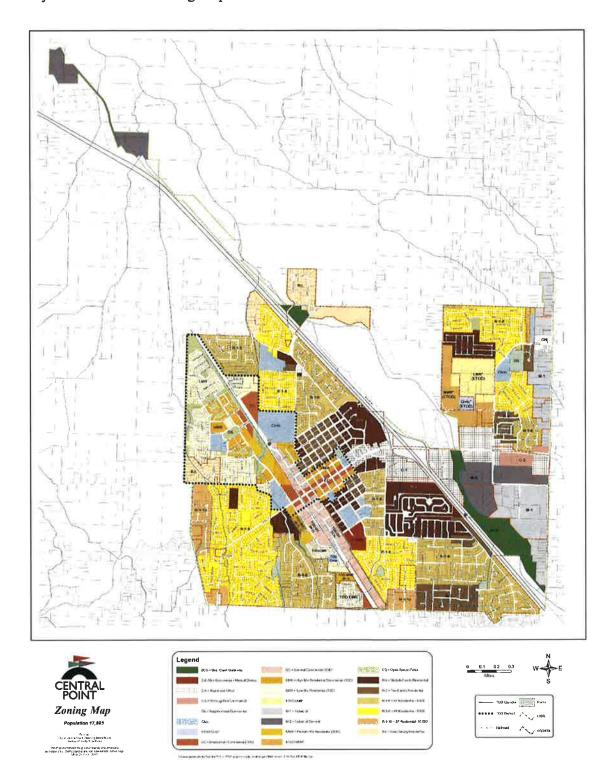
Land Use Requirement for CFAs:

- Development regulations for a CFA shall allow single-use and mixed-use development within individual buildings or on development sites, including the following outright permitted uses:
 - o Multifamily Residential
 - o Attached Single-Family Residential
 - Other Building Types that comply with minimum density requirements.
 - Office-type uses
 - Non-auto dependent retail, services, and other commercial uses
 - Child Care, schools, and other public uses
 - Maximum block length standards must apply depending on acreage of site
 - Maximum density limitation must be prohibited
 - Local governments must choose either to adopt density minimums and height maximums (Option A-Prescriptive Standards) or alternative performance standards (Option B-Outcome-Oriented Standards)
- Local governments shall prioritize locating government facilities that provide direct service to the public within climate-friendly areas and shall prioritize locating parks, open space, plazas, and similar public amenities in or near climate-friendly areas that do not contain sufficient parks, open space, plazas, or similar public amenities.
- Streetscape requirements in CFAs shall also include street trees and other landscaping, where feasible.
- Local governments shall establish maximum block length standards as follows:
 - Development sites < 5.5 acres: maximum block length = 500 feet or less
 - Development sites > 5.5 acres: maximum block length = 350 feet or less
- Development regulations may not include a maximum residential density limitation
- Local governments shall adopt policies and development regulations in CFAs that implement the following:
 - Transportation review process in OAR 660-012-0325
 - o Land use requirements in OAR 660-012-0330
 - Parking requirements in OAR 660-012-0435
 - Bicycle parking requirements in OAR 660-012-0630
- Local governments may choose to EITHER adopt density minimums and height maximums (Option A—Prescriptive Standards) OR adopt alternative development regulations to meet performance standards (Option B—Outcome-Oriented Standards)

The following map 1 is the city's zoning map, and helps convey where zones are located throughout the city of Central Point.



Map 1. City of Central Point Zoning Map





Identify Zoning Changes:

Zoning in CFAs may need to change if the existing zoning does not meet the land use requirements in OAR 660-012-0320. During phase 1 of the study, cities do not need to adopt the land use requirements, but evaluation of necessary land use reforms may influence a base zone's viability of being a potential CFA candidate. Essentially, an existing zone that meets a large proportion of the CFA criteria will likely feature the characteristics that define climate friendly areas, while zones that require intense reform may not incentivize development due to lack of compatible land uses or alternative transit infrastructure.

During the adoption phase, slated to occur in 2024, local governments will have to make and adopt all necessary zoning changes and will need to provide DLCD with documentation that all adopted and applicable land use requirements for CFAs are consistent with OAR 660-012-0320.

Calculate CFA Capacity

In addition to evaluating the existing or anticipated zoning code in the CFA(s) to determine if they are compatible with the requirements of OAR 660-012-0320, the proposed CFA(s) must meet the residential housing capacity threshold expressed in OAR 660-012-0315(1). The target threshold to meet is at least 30% of current and projected housing needs citywide. The total number of housing units necessary to meet all current and projected housing needs is derived from the most recent adopted and acknowledged housing capacity analysis (HCA; also known as a housing needs analysis or HNA) as follows:

Total no. housing units needed = existing dwelling units within the city + anticipated no. projected future units

After calculating the Total Housing Units Needed, the technical analysis team proceeded to calculate the potential housing unit capacity of the proposed CFA site. The following page goes over the equation that will be used to calculate the Housing Unit Capacity.

Calculating Housing Unit Capacity:

The following method was adapted from DLCD's Climate-Friendly Areas methodology guide. The calculation follows the prescriptive path requirements as described in the methodology guide. Total Housing unit Capacity in CFA is estimated using the following variables or factors:

- 1. The Net Developable Area in SQ. FT. (a)
- 2. The maximum number of building floors (f)
- 3. The assumed percentage of residential use (r)
- 4. The average size of a housing unit in SQ. FT. (s)

Using these, the housing unit capacity (U) in any part of a CFA can be given by a simple formula:

Housing Unit Capacity (
$$U$$
) =
$$\frac{\text{(Net Developable Area * Maximum floors * Resident use percentage)}}{Average Housing Unit}$$

Note: In the above formula, the results are rounded up to the nearest integer.

Net Developable Area and Maximum Building Floor factors in the above calculation requires some additional sub-calculations. The values to use for Assumed Percentage of Residential Use (r) and Average Size of a Housing Unit (s) are given in the rules.

Each uniquely zoned area of the CFA will have its own calculations of these factors and the above housing unit formula. Then they are summed for the CFA area to give the total Housing Unit Capacity.



Equity Analysis

Local governments must determine if rezoning the potential CFA would be likely to displace residents who are members of state and federal protected classes and identify actions to mitigate or avoid potential displacement.

The CFA Study must include plans for achieving fair and equitable housing outcomes within CFAs following the provisions in OAR 660-008-0050(4)(a)-(f). CFA studies must include a description of how cities will address each of the following factors:

- Location of Housing: How the city is striving to meet statewide greenhouse gas emission reduction goals by creating compact, mixed-use neighborhoods available to members of state and federal protected classes.
- Fair Housing: How the city is affirmatively furthering fair housing for all state and federal protected classes.
- Housing Choice: How the city is facilitating access to housing choice for communities of color, low-income communities, people with disabilities, and other state and federal protected classes.
- Housing Options for residents Experiencing Homelessness: How the city is advocating
 for and enabling the provision of housing options for residents experiencing
 homelessness and how the city is partnering with other organizations to promote
 services that are needed to create permanent supportive housing and other housing
 options for residents experiencing homelessness.
- Affordable Homeownership and affordable Rental Housing: How the city is supporting
 and creating opportunities to encourage the production of affordable rental housing
 and the opportunity for wealth creation via homeownership, primarily for state and
 federal protected classes that have been disproportionately impacted by past housing
 policies.
- Gentrification, Displacement, AND Housing Stability: How the city is increasing housing stability for residents and mitigating the impacts of gentrification, as well as the economic and physical displacement of existing residents resulting from investment or redevelopment.

Please note, the equity analysis was performed with the guidance of DLCD's Anti-Displacement and Gentrification Toolkit. The Toolkit provides an in-depth resource for local government to address racial and ethnic equity in housing production, including a list of strategies to mitigate the impacts of gentrification and displacement. The toolkit helps and guide local governments to establishing a framework for creating housing production strategies with a particular focus on the unintended consequences of those strategies.



Chapter 2: Candidate Climate Friendly Area Analysis

This section reviews the analysis components that were performed in the study to derive the results of the study. Beginning with initial candidate location suggestions from City Staff, then, calculating the housing capacity of the proposed CFAs boundary, with readjusting the CFAs size as needed to accommodate the housing unit capacity.

On the other hand, the zoning analysis focuses on the land use requirements in OAR 660-012-0320 and compares them with the city codes to find suitable zones that are fully or partially compliant with the CFA land use requirements. The zoning analysis help informs the team of the land use compatibility of the proposed CFA areas. Zoning analysis and identifying zoning changes go hand in hand. Identify Zoning Changes comes in if existing development standards do not meet CFA requirements, identify necessary zoning changes on the specific zones and how to bring them into compliance with the land use requirements or OAR 660-012-0320.

While the zoning analysis determines if the land use is in line with the CFA requirements, the GIS analysis helps determine the status of transportation infrastructure that is within or around the proposed CFA area and whether the proposed area satisfies the transportation connectivity aspect of the regulations, as a CFA site must be served by, or planned to be served by, high quality pedestrian, bicycle, and transit services according to OAR 660-012-0310.

Capacity analysis determines whether the potential CFA, or a combination of CFAs, can accommodate 30% of citywide current and projected housing need. If identified CFA candidate area(s) are not sufficient to accommodate at least 30% of housing need, resizing the proposed CFA area or identifying additional candidate CFA areas must be performed to satisfy the 30% of housing need.

Equity analysis, found within chapter 2 of the study, must determine if rezoning the potential CFA would be likely to displace residents who are members of state and federal protected classes and identify actions to mitigate or avoid potential displacement. Chapter 2 of this study includes plans for achieving fair and equitable housing outcomes within CFAs following the provisions in OAR 660-008-0050.

Overall, the analysis steps are intertwined with each other. Locating a CFA candidate, calculating Housing Needs, Zoning analysis, GIS analysis, Capacity analysis are all the steps that are followed to designate the appropriate CFA within the city.



Locate and Size Candidate CFAs

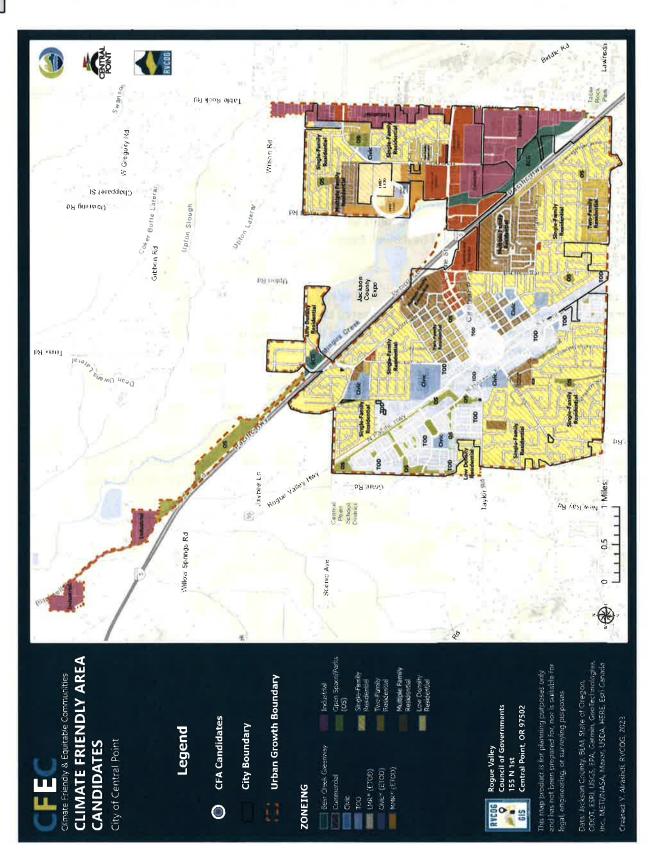
City Guidance

In Project Management Team Meeting 1, Central Point city staff expressed some possible locations for CFA. The East Transit Oriented District, ETOD, is the primary suggestion from the city staff. The area has a lot of undeveloped land and supports high density mixed-use development. The downtown could be considered as a possible CFA. Generally, several analyses will be performed to identify and locate candidates for CFA. City's guidance or comments will be taken under consideration with the results of the analysis. The analysis criteria will be derived from the CFEC requirements.

The ETOD makes a perfect candidate for CFA, but the city will need to address several concerns about the area. First, the nearest bus stop for the suggested CFA candidate is around 1 mile away, and pedestrian travel times range from 15 to 30 minutes as the pace largely depends on the individual's age and ability. Furthermore, the limited sidewalk infrastructure serves as a barrier for accessibility to the bus stop, however the area does have good bicycle infrastructure. All in all, the connectivity of the ETOD needs to be addressed and planned for it to be a CFA candidate. Should such planning occur, the CFEC rules would allow the city of Central Point to capitalize on a largely undeveloped portion of their city.

Overall, guidance from city staff culminated in the two locations shown in map 2. Further analysis might reveal other unanticipated potential CFA candidates, but hopefully should affirm the initial selection from City Staff.

8.A.a



Calculate Housing Units Needed

As outlined in the methodology guide, the proposed CFA(s) must meet the residential housing capacity threshold expressed in OAR 660-012-0315(1). The threshold to meet is that the cumulative capacity of the CFA(s) is at least 30% of current and projected housing needs citywide. And this is derived by the following formula:

Total no. housing units needed = existing dwelling units within the city + anticipated no. projected future units

City of Central Point has an adopted and acknowledged Housing Needs Analysis for 2019 - 2039. According to the analysis, there are *6,864* existing housing units in the City of Central Point. Long-range population forecasts prepared by PSU anticipate approximate of 7,000 new residents will be added to the Central Point over the next 20 years. Therefore, the City of Central Point anticipates the need for an additional *2,887* units.

Existing units + anticipated no. future needed units = total no. units needed

6,864 (existing units) + 2,887 (anticipated no. future needed units) = 9,751 total units needed

CFA must be sized to accommodate 30% of total current & future units needed

30% of 9,751 total units needed = 2,925.3 units

The City of Central Point must capture zoned residential building capacity sufficient to contain **2,926** (*rounding up from 2,925.3*) units in one or more CFA(s).

Zoning Analysis:

Code review:

Existing zoning codes were compared to the CFA requirements to identify those zones that are most closely aligned with CFEC rules. Shown in Table 2, zones were scored for each criterion with 2 points for being in compliance, 1 point for conditional or mixed compliance, and 2 for allowed building height of 50 feet or more. Green cells are those in compliance. Yellow cells are those that have partial or conditional compliance or are closest to the 50-foot building height maximum and overall are closer to compliance than other options. Any zone can be adjusted to be made CFEC-compliant, so CFAs are possible anywhere in the city, but those zones that are not prioritized are those that would take more legislative changes and create more dramatic changes to the built environment relative to what is currently in the area.

Overall, the scoring matrix indicates the overall suitability of the zones in regard to the land use requirements. However, the scores are only the first step of the analysis, and the results they produce are only one factor among the other criteria the study analyzes. Therefore, a high scoring zone alone does not determine a CFA candidate area, and so the location of the zones and surrounding transportation infrastructure must be factored in the 2rd step of analysis.

Table 2. City Code Review

			Residential	ential				TOD DISTRI	TOD DISTRICTS AND CORRIDORS	DRRIDORS	İ	Ī	Ü	Commercial		Industrial	trial	
Legend Y - Yes, Permitted Outright C - Conditional M - Mixed N - Not Permitted N/A - Not Applicable	Scoring Matrix: Y = 2 C/N = 1 N/A = 1 Building height >= 50 = 1 Building height < 50 = 0 N = 0	Residential low-Density	Residential Residential Iow-Density Single-Family	Residential two-Family	Residential multiple- Family	Low mix residential	Medium mix residential	Hight mix residential	Employment Commercial	General	Civic	Parks & Open 1 Space	Neighborhood Commercial District	Tourist and office- professional	Thoroughfare	Industrial	Industrial general	Bear Creek Greenway
		R-L	R-1	R-2	R-3	LMR	MMR	HMR	2	29	v	SO	3	3	5.5	M-1	M-2	B.C.G.
Single Use		>	*	X	>	٨	*	*	*	٨	>	٨	>	*	>	>	>	,
Mixed Use	The state of the s	z	z	z	z	N	>	>	Α.	>	z	z	z	z	z	z	z	z
MF, SF Attached, Office, Non-Auto Retail/Services/Commercial, Childcare, Schools, Other Public Uses	Retail/Services/Commercial, es	z	z	Σ	Σ	*	*	>	>		z	z	Σ	Σ	Σ	Σ	Σ	z
Gov. Facilities, Parks, Open Space, Other Similar	Other Similar	Ü	Ç	>	>	2	Σ	M	Ž	M	*	>	z	z	z	z	z	z
Maximum Block Length		2	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z
Density Minimum (15 Dwelling Units/Acre)	ts/Acre)	z	z	z	z	z	*	>	N/A	N/A	z	z	z	z	z	z	z	z
Density Maximums Prohibited	ALCONOLOGY OF	z	z	z	z	Z	z	>	>	>	*	*	z	z	z	z	z	z
Maximum Building Height (>= 50ft)		z	z	z	z	z	z	>	>	>	z	z	z	>	z	٨	٨	z
Maximum Building Height (ft)		35	35	35	35	35	45	909	09	09	45	35	35	09	35	09	09	15
	Zone Score	8	3	S	7	9	6	13	12	12	9	9	3	S	3	S	2	2

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Identify Zoning Changes

Zones were evaluated in more depth to determine the specific changes that are needed to bring them into compliance with CFEC rules. The purpose of the initial zoning code evaluation was to identify those zones that are the most CFA-ready as a way to ensure that CFA-related changes occur where they are most compatible within the existing built environment and simplify the City's process of updating zoning codes.

Residential Zones:

The residential zones are not fully compatible with the land use requirements. Most of the residential zones are designed to host low-density development in them with no mixed-use and or commercial, except for R-2 and R-3 which allow some commercial activities. In general, the residential zones are not the most compatible with the CFA land use requirements.

- Residential low-Density (R-L):
 - This zone designed to provide for a semi-rural residential environment, and it is located at the edge of the city boundary. To meet CFA requirements this zone, would need to allow a wider array of uses like commercial use or office uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements. Also, government facilities, parks, and open space need to be an outright permitted use in the zone, according to OAR 660-012-0320.
- Residential Single-Family (R-1):
 - This zone is designed to stabilize and protect the urban low density residential characteristics of the district while promoting and encouraging suitable environments for family life. To meet CFA requirements this zone, would need to allow a wider array of uses like commercial use or office uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements. Also, government facilities, parks, and open space need to be an outright permitted use in the zone, according to OAR 660-012-0320.
- Residential Two-Family (R-2):
 - The Two-Family zone is designed to promote and encourage a suitable environment for family life at a slightly higher density than that permitted in the R-1 district. It allows for duplex or multi-unit uses, but not a wide array of commercial uses is allowed. To meet CFA requirements this zone, would need to allow a wider array of commercial use, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements.



- Residential Multiple-Family (R-3):
 - This district encourages high-density development of single-family and multiple-family housing types. The district is located to close from shopping and employment opportunities, public facilities, and major streets and highways. To meet CFA requirements this zone, would need to allow a wider array of commercial use, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements.

Commercial Zones:

The commercial zones in the city are not fully compatible with the CFA land use requirements. The city would need to allow wider array of uses and mandate density minimums and building high minimums with other changes.

- **Neighborho**od Commercial District (C-N):
 - o This district is intended to provide locations for neighborhood shopping centers located within the neighborhoods. To amend this zone, the city would need to allow a wider array of uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements. Also, government facilities, parks, and open space need to be an outright permitted use in the zone, according to OAR 660-012-0320.
- Commercial-Medical District (C-2):
 - This district was designed to accommodate medical care within the city boundaries. The zone supports residential development standards of the TOD-LMR. However, the city would need to allow a wider array of uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements. Also, government facilities, parks, and open space need to be an outright permitted use in the zone, according to OAR 660-012-0320.
- Tourist and Office-Professional District (C-4):
 - The district is intended to provide for the development of concentrated tourist commercial and entertainment facilities. Amending this zone would need a wide range of uses to be outright permitted, the city would need to outright permit government facilities, parks, and open space uses in the zone and adopt CEFC block length requirements. Also, mandate a minimum density of 15 units/acre.



- Thoroughfare Commercial District (C-5):
 - The C-5 district is intended to provide for commercial and business uses that are most appropriately located along or near major highways or thoroughfare. Amending this zone would need a wide range of uses to be outright permitted, mandate a minimum density of 15 units/acre and introduce a new building height at least 50 feet or higher. Outright permit government facilities, parks, and open space uses in the zone.

TOD District and Corridors:

The purpose of the Central Point transit-oriented development (TOD) district is to promote efficient and sustainable land development and the increased use of transit. In general, the TOD district scores the highest and it is more compatible with the land use requirements for CFAs; specifically, the high density zones like MMR, HMR, EC and GC.

- Low Mix Residential (LMR):
 - o This is the lowest density residential zone in the district. Single-family detached residences are intended to be the primary housing type; however, attached single-family and lower density multifamily housing types are also allowed. To meet CFA requirements this zone, would need to outright permit mixed uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements. Also, government facilities, parks, and open space need to be an outright permitted use in the zone, according to OAR 660-012-0320.
- Medium Mix Residential (MMR):
 - This medium density residential zone focuses on higher density forms of residential living. The range of housing types includes higher density single-family and a variety of multifamily residences. Low impact commercial activities may also be allowed. To meet CFA requirements this zone, would need to outright permit government facilities, parks, and open space uses in the zone. Mandate a minimum density of 15 units/acre and introduce a new building height minimum of 50 feet, 5 feet more than what is currently allowed. Adopt CEFC block length requirements, prohibit maximum density requirements.



High Mix Residential/Commercial (HMR):

o This is the highest density residential zone intended to be near the center of the TOD district. High density forms of multifamily housing are encouraged along with complementary ground floor commercial uses. Low impact commercial activities may also be allowed. Low density residential uses are not permitted. The HMR zone already aligns well with CFEC land use regulations. However, the city would need to outright permit government facilities, parks, and open space uses in the zone and adopt CEFC block length requirements.

Employment Commercial (EC):

o This district was designed to host retail, service, and office uses are primarily intended for this district. Activities which are oriented and complementary to pedestrian travel and transit are encouraged. Residential uses above ground floor commercial uses are also consistent with the purpose of this zone. To amend this zone, the city would need to outright permit government facilities, parks, and open space uses in the zone and adopt CEFC block length requirements. Also, mandate a minimum density of 15 units/acre.

General Commercial (GC):

o In this district commercial and industrial uses are primarily intended for this district. Also, in this district residential uses above ground floor commercial uses are also consistent with the purpose of this zone. To amend this zone, the city would need to outright permit government facilities, parks, and open space uses in the zone and adopt CEFC block length requirements. Also, mandate a minimum density of 15 units/acre.

Civic (C):

Civic uses such as government offices, schools, and community centers are the primary uses intended in this district. These uses can play an important role in the vitality of the TOD district. To amend this zone, the city would need to allow a wider array of uses like allow residential and commercial uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 5 feet more than what is currently allowed. Adopt CEFC block length requirements.

Open Space (OS):

o This zone is intended to provide a variety of outdoor and recreation amenities. Because the density of development will generally be higher than other areas in the region, this zone will providing open space and recreation opportunities for the residents and employees in the TOD district. To amend this zone, the city would need to allow a wider array of uses like allow residential and commercial uses, mandate a minimum density of 15 units/acre, and introduce a new building height minimum of 50 feet, 15 feet more than what is currently allowed. Adopt CEFC block length requirements.

Bear Creek Greenway (B.C.G.):

o The B.C.G. district is intended to provide for environmental preservation and limited development within the portion of the Bear Creek Greenway. This district is intended to protect the public health and safety, preserve the natural environment of the Bear Creek corridor. This zone was not designed to support any heavy development and the main goal of it to preserve the environmental and ecological system of the Bear Creek.

Industrial Zones:

The industrial zones are more consistent with the density and height requirements of the CFA land use requirements. However, they fall short of the residential and mixed-use requirements.

- Industrial District (M-1):
 - o The purpose of this district is to provide areas suitable for the location of light industrial uses involved in service, manufacturing, or assembly activities. But the zone falls short on outright permitted uses, according to the CFA land use requirement. To make this zone suitable the city would need to outright permit wide range of uses and adopt CEFC block length requirements. Also, mandate a minimum density of 15 units/acre and introduce a new building height at least 50 feet or higher.
- Industrial General District (M-2):
 - M-2 district is to provide areas suitable for all types of industrial uses. However, the district falls short on outright permitted uses, according to the CFA land use requirement. To make this zone suitable the city would need to outright permit wide range of uses and adopt CEFC block length requirements. Also, mandate a minimum density of 15 units/acre and introduce a new building height at least 50 feet or higher.



CFA Compatible Zones:

CFA Friendly zones are consistent, either fully or partially, with the land use requirements of OAR 660-012-0320. Selecting the most compatible zones with the land use requirements and identifying them as suitable zones will help determine where the most suitable CFA candidates are for the city. These are extracted or derived from the prior step, code review. The following is a list of the most consistent zones with the land use requirements in the city:

Medium Mix Residential (MMR):

As mentioned earlier, the MMR zone is one of the most suitable zones in the city to host a CFA. The zone's attributes density and permitted uses requirements are largely in compliance with the land use requirements. To make this zone compliant with CFA requirements, density maximums will need to be removed, maximum building height would need to be increased by 15 feet, and block lengths standards would need to be adjusted to facilitate walkability. Significantly amending this zone may be a challenge however, as medium density zones often act as transitional areas between high and lower intensity uses and altering this zone to act like the HMR zone would nullify this zone's ability to diffuse density. The analysis team would recommend rezoning MMR parcels or limiting housing typologies permitted within to preserve this function.

TOD - Medium Mix Residential	
Single Use	Υ
Mixed Use	Υ
MF, SF Attached, Office, Non-Auto Retail/Services/Commercial, Childcare, Schools, Other Public Uses	Y
Gov. Facilities, Parks, Open Space, Other Similar	M
Maximum Block Length	N
Density Minimum (15 Dwelling Units/Acre)	Υ
Density Maximums Prohibited	N
Maximum Building Height (>= 50ft)	N
Maximum Building Height	35



High Mix Residential (HMR):

The HMR scores the highest in the scoring matrix due to the array of the uses and density requirements the zone supports. Specifically, the zone allows for a wide range of residential and commercial uses and allows for development above the 50 feet mark. The city will need to allow for government facilities and adjust block length to make this zone fully compliant.

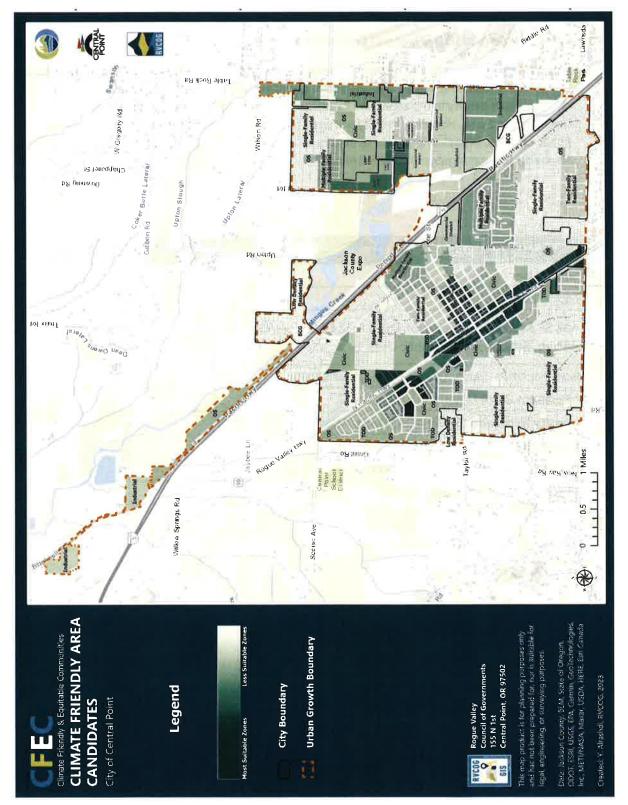
TOD - High Mix Residential	
Single Use	Y
Mixed Use	Y
MF, SF Attached, Office, Non-Auto Retail/Services/Commercial, Childcare, Schools, Other Public Uses	A THIRD Y
Gov. Facilities, Parks, Open Space, Other Similar	M
Maximum Block Length	N
Density Minimum (15 Dwelling Units/Acre)	Y
Density Maximums Prohibited	Υ
Maximum Building Height (>= 50ft)	Y
Maximum Building Height	60

Employment Commercial (EC) & General Commercial (GC):

Employment Commercial and General Commercial share the exact same attributes and scores the same in the scoring matrix. Both zones are compliant with the land use requirements. The not applicable density in the zones and building height above 50 feet makes the zones very hospitable to a CFA. However, the city will need to amend the zone to allow for government and public facilities, introduce a density minimum of 15 units per acre, and alter block length standards to support pedestrian movement.

TOD - Employment Commercial & General Commercial	
Single Use	Y
Mixed Use	Υ
MF, SF Attached, Office, Non-Auto Retail/Services/Commercial, Childcare, Schools, Other Public Uses	Y
Gov. Facilities, Parks, Open Space, Other Similar	М
Maximum Block Length	N
Density Minimum (15 Dwelling Units/Acre)	N/A
Density Maximums Prohibited	Υ
Maximum Building Height (>= 50ft)	Υ
Maximum Building Height	60

Map 3. Zoning Analysis Map



CFA Capacity Calculation

Candidate CFA locations have been identified and prioritized, and this step evaluates each area's housing capacity. If the proposed CFA's boundaries do not encompass 30% or more of current and future units, the boundaries need to be adjusted or additional CFAs need to be sited. Additional CFA candidate areas that have been identified will be considered first for CFA expansion if need be and the evaluation process will begin at Step 2 for these sites.

City Guidance:

City staff have highlighted several priority CFA candidate areas. These areas were included not only for their compatibility to CFA regulations, but also for their development potential. Largely, the East Transit Oriented District (ETOD) site is one of the largest pieces of vacant land within city limits, while also being surrounded by array of uses constituting the eastern commercial core. Some consideration was given to the HWY 99 TOD to serve as secondary CFA meant to bolster employment related uses, but Staff indicated to only consider the area if the Eastern TOD is unable to meet the unit capture requirements.



East Transit Oriented District (ETOD):

The ETOD site is located on the east side of I-5 and is around 130 acres. The ETOD is mostly undeveloped and has the opportunity to host a wide array of uses within it. Furthermore, the Bear Creek greenway runs alongside the ETOD and offers the unique opportunity to connect this proposed mixed use core to a regional multimodal pathway. Furthermore the recent 2019 Urban Growth Boundary Amendment included the tract of land between Bear Creek and Peninger Road with plans from the city to connect to Beebe Road via a bridge. Moreover, the commercial zoned land within this recent UGB inclusion is planned to host a new Central Point Civic center, a valuable asset to the CFA.

ETOD area is planned to host wide range of zones, as seen in image 1. A mix of, commercial zoning, mixed use residential at both low and medium densities, encourages a wide array of amenities and housing options. In some areas the city is reevaluating and planning to rezone area to high density mixed use residential to better concentrate the CFA.

The ETOD is in a close proximity to existing transportation infrastructure in the form of RVTD's route 40, with plans to add a new Central Point Circulator Route in the near future according to RVTD Transit Master Plan, dubbed route 41 and shown in image 2. This will increase the connectivity between the ETOD and the downtown area and supports the alternative transit options integral to a CFA.

Overall, the ETOD site is viewed as an excellent CFA location due to its development potential, large size, and proximity to quality transit service and bicycle and pedestrian infrastructure.

Image 1: ETOD Site

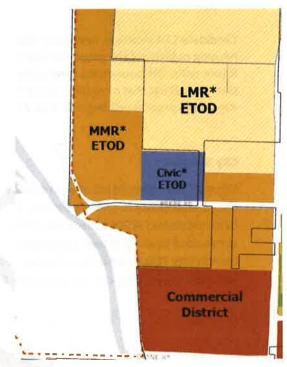




Image 2: CENTRAL POINT CIRCULATOR

Attachment: Central Point Final Study Draft (1773 : Climate Friendly Area (CFA) Study)

CFA Boundaries Scenarios:

Two boundary scenarios are used to calculate the capacity for the ETOD site, as shown in Maps 4 and 5 below. The intent behind running two scenarios is to see what is the least amount of area that could be assigned as CFA and can still meet the 30% unit capture requirement. Also, these scenarios help illustrate what is the maximum number of units that can be captured in ETOD site when using all the available land in the site.

The main difference between the two scenarios is the first boundary includes a part of the newly amended Urban Growth Boundary (UGB) of the city and it is bigger in area than the second boundary scenario, measuring at 110 acres. Theoretically the larger area provides the opportunity to capture more units when calculating the housing capacity for the proposed CFA, Map 1. On the other hand, the second boundary favors a much more compact scenario, measuring at about 70 acres. This scenario only includes what was within the city's boundary prior to the 2019 UGB amendment.

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Map 5: NDA Evaluation: Scenario 2:

Central Point

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Capacity Calculation Requirements:

Assumptions

Because ETOD is largely undeveloped it is prudent to use city standards to determine gross and net block areas. Note that the calculations are based on the block's measurements, and do not account for all interior lot setbacks. Also, City of Central Point will be eliminating all parking requirements from the city to satisfy the parking reform found within OAR 660-012-0420. Values shown below may differ slightly from actual values due to rounding.

Please note, the City of Central Point must capture zoned residential building capacity sufficient to contain 2,925 units in one or more CFA(s), as calculated in chapter 2 page 22.

1. City Standards

- A. Deductions
 - i. Right-of-Way: 25%
 - ii. Planned Open Space: 16.18 Acres (only in scenario 1)
- B. Block Standards
 - i. Block Perimeter: 2000 ft
 - ii. Block measurement: 600 ft * 400 ft
 - iii. Alley: 20 ft * 400 ft
 - iv. Gross Block Area: 240000 sq. ft. = 6 Acres
- C. Maximum Floors
 - i. LMR: 4 Floors
 - ii. MMR: 4 Floors
 - iii. HMR: 5 Floors
 - iv. Civic: 4 Floors
 - v. C-4, GC, EC: **5 Floors**

2. DLCD Standards

- A. Percent Residential Use: 30%
- B. Average Housing Unit Size: 900 ft



Using the Housing Unit Capacity with City standards, and DLCD standards we will calculate each zones Housing Unit Capacity and then sum them up to determine if the ETOD can capture the 30% Projected Housing Needed as a CFA or there is a need to designate a secondary CFA.

Scenario 1: East Transit Oriented (ETOD) Housing Unit Capacity:

The first scenario will use the boundary that is shown back in Map 4 and other attributes from area size to the city's and DLCD standards, see table 3 for Acreage breakdown for scenario 1. The calculations are broken down by zones and then summarized at the last table:

Table 3: Acreage breakdown: Scenario 1:

		Area (Ac	res)	8		
LMR	MMR	CIVIC	C-4	GC (Planned)	Total	NDA Total*
13	36	6	22	17.539	110.719	68.540775

^{*}Net Developable Area is the total area after all the deductions.

Total Housing Unit Capacity: Low Mix Residential (LMR):

Table 4 summarizes the Total Housing Unit Capacity calculation within the Low Mix Residential use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

To	ıble 4: ETOD – LMR:		
	Total Area		13 Acres
	Gross Block Area		6 Acres
	Net Developable Area	(Total Area – R.O.W – Alley Area)	9.4 Acres
	Housing Unit Capacity	(Using the formula mentioned prior)	547 Units
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	18%
	Unit per Acre	(Total units/Total Area)	58



Total Housing Unit Capacity: Medium Mix Residential (MMR):

Table 4-1 summarizes the Total Housing Unit Capacity calculation within the Medium Mix Residential use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Та	ble 4-1: ETOD – MMR:		
	Total Area		36 Acres
	Gross Block Area		6 Acres
	Net Developable Area	(Total Area – R.O.W – Alley Area)	26.1 Acres
	Housing Unit Capacity	(Using the formula mentioned prior)	1515 Units
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	51%
	Unit per Acre	(Total units/Total Area)	58

Total Housing Unit Capacity: Civic (C):

Table 4-2 summarizes the Total Housing Unit Capacity calculation within the Civic use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

able 4-2: ETOD – Civic:		
Total Area		6 Acres
Gross Block Area	3	6 Acres
Net Developable Area	(Total Area – R.O.W – Alley Area)	4.35 Acres
Housing Unit Capacity	(Using the formula mentioned prior)	252 Units
Percentage from Needed Housing	g (Housing Unit Capacity/Needed Housing)	20%
Unit per Acre	(Total units/Total Area)	57

Total Housing Unit Capacity: Tourist and Office-Professional District (C-4):

Table 4-3 summarizes the Total Housing Unit Capacity calculation within the Tourist and Office-Professional District (C-4) use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Ta	ble 4-3: ETOD – (C-4):		
	Total Area	A	22 Acres
	Gross Block Area	1 1	6 Acres
	Net Developable Area	(Total Area – R.O.W – Alley Area)	15.95 Acres
	Housing Unit Capacity	(Using the formula mentioned prior)	1157 Units
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	38%
	Unit per Acre	(Total units/Total Area)	72

Total Housing Unit Capacity: General Commercial (GC):

Table 4-4 summarizes the Total Housing Unit Capacity calculation within the General Commercial District (GC) use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Table 4-4: ETOD – General Comm	ercial:	
Total Area		17.54 Acres
Gross Block Area	7	6 Acres
Net Developable Area	(Total Area – R.O.W – Alley Area)	12.71 Acres
Housing Unit Capacity	(Using the formula mentioned prior)	923 Units
Percentage from Needed Hous	sing (Housing Unit Capacity/Needed Housing)	31%
Unit per Acre	(Total units/Total Area)	72



Scenario 1: East Transit Oriented District: Total Housing Unit Capacity:

Table 4-5 sums up all the zones within the ETOD site and shows an overall number on how the site performing:

Ta	ble 4-5: Scenario 1: ETOD Total Housing Unit Capacity:	
	Total Area	110 Acres
	Total Housing Units Needed	2925
	Total Housing Unit Capacity (ETOD)	4397
	Percentage from Needed Housing (Housing Unit Capacity/Needed Housing)	150%
	Unit per Acre (Total units/Total Area)	64

In this scenario the ETOD site has the capacity to accommodate for 4397 units within it, and that is more than the Total Needed Housing for the city. In fact, ETOD in scenario 1 has 50% more units than the projected Housing Needs in the City of Central Point. Therefore, a secondary CFA citation is not necessary at this point in time. Overall, the ETOD Property site provide ample room for CFA development to fulfill the requirement of the CFEC rules for 30% of projected needed housing units.



Scenario 2: East Transit Oriented (ETOD) Housing Unit Capacity:

The second scenario will use the boundary that is shown back in Map 5 and other attributes from area size to the city's and DLCD standards, see table 5 for Acreage breakdown for scenario 2. The calculations are broken down by zones and then summarized at the last table:

Table 5: Acreage breakdown: Scenario 2:

	Area (Acres)						
LMR	MMR	HMR	CIVIC	EC	Total		
22	37	7.43	6	14.14	86.57		

Total Housing Unit Capacity: Low Mix Residential (LMR):

Table 6 summarizes the Total Housing Unit Capacity calculation within the Low Mix Residential use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Table 6: ETOD – LMR:					
	Total Area		22 Acres		
	Gross Block Area		6 Acres		
	Net Developable Area	(Total Area – R.O.W – Alley Area)	15.58 Acres		
	Housing Unit Capacity	(Using the formula mentioned prior)	905 Units		
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	30%		
	Unit per Acre	(Total units/Total Area)	41		

Total Housing Unit Capacity: Medium Mix Residential (MMR):

Table 6-1 summarizes the Total Housing Unit Capacity calculation within the Medium Mix Residential use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Table 6-1: ETOD – MMR:					
	Total Area	A.	37 Acres		
	Gross Block Area		6 Acres		
	Net Developable Area	(Total Area – R.O.W – Alley Area)	26.2 Acres		
	Housing Unit Capacity	(Using the formula mentioned prior)	1522 Units		
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	52%		
	Unit per Acre	(Total units/Total Area)	41		

Total Housing Unit Capacity: High Mix Residential (HMR):

Table 6-2 summarizes the Total Housing Unit Capacity calculation within the High Mix Residential use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards. Please note, this zone is a preliminary land use and is planned to replace a portion of the current commercial use at the lower part of the boundary by the intersection of Pine and Hamrick.

To	Table 6-2: ETOD – HMR:						
	Total Area		7.43 Acres				
	Gross Block Area		6 Acres				
	Net Developable Area Area)	(Total Area – R.O.W – Alley	5.2 Acres				
	Housing Unit Capacity prior)	(Using the formula mentioned	382 Units				
	Percentage from Needed Housing Housing)	(Housing Unit Capacity/Needed	13%				
	Unit per Acre Area)	(Total units/Total	51				

Total Housing Unit Capacity: Civic (C):

Table 6-3 summarizes the Total Housing Unit Capacity calculation within the Civic use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards.

Table 6-3: ETOD – Civic:						
	Total Area		6 Acres			
	Gross Block Area		6 Acres			
	Net Developable Area	(Total Area – R.O.W – Alley Area)	4.35 Acres			
	Housing Unit Capacity	(Using the formula mentioned prior)	252 Units			
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	8%			
	Unit per Acre	(Total units/Total Area)	41			

Total Housing Unit Capacity: Employment Commercial (GC):

Table 6-4 summarizes the Total Housing Unit Capacity calculation within the Civic use in the ETOD. Using the Housing Unit Capacity with City standards, and DLCD standards. Please note, this zone is a preliminary land use and is planned to replace a portion of the current commercial use at the lower part of the boundary by the intersection of Pine and Hamrick.

Table 6-4: ETOD – Employment Commercial:						
	Total Area		14.14 Acres			
	Gross Block Area		6 Acres			
	Net Developable Area	(Total Area – R.O.W – Alley Area)	9.9 Acres			
	Housing Unit Capacity	(Using the formula mentioned prior)	724 Units			
	Percentage from Needed Housing	(Housing Unit Capacity/Needed Housing)	25%			
	Unit per Acre	(Total units/Total Area)	51			



Scenario 2: East Transit Oriented District: Total Housing Unit Capacity:

Table 6-5 sums up all the zones within the ETOD site and shows an overall number on how the site performing:

Table 6-5: Scenario 2: ETOD Total Housing Unit Capacity:				
	Total Area	86.57 Acres		
	Total Housing Units Needed	2925		
	Total Housing Unit Capacity (ETOD)	3779		
	Percentage from Needed Housing (Housing Unit Capacity/Needed Housing)	128%		
	Unit per Acre (Total units/Total Area)	43		

In this scenario ETOD site has the capacity to accommodate for 3779 units within it, and that is more than the Total Needed Housing for the city. In this scenario, the ETOD can accommodate for the projected needed housing within the city and has the capacity to add 28% more on the projected needed housing units in the ETOD. A secondary CFA citation is not necessary at this point in time. Overall, the ETOD Property site provide ample room for CFA development to fulfill the requirement of the CFEC rules for 30% of projected needed housing units.

Conclusion

With CFA capacity calculated, it's evident that the ETOD can not only host the required number of units, but that the City of Central Point has options when it comes to determining the bounds of CFA. There are numerous pros and cons with each scenario. Ultimately, the technical analysis team recommends that the City of Central Point engage with City Officials and the general public to see which CFA boundary scenario best aligns with their vision for Central Point.



Chapter 3: Anti-Displacement Mitigation Strategies

CFA Redevelopment Outcomes

Due to the nature of the regulations, an area designated as a climate friendly area gains the capability to be redeveloped for a wide variety of uses and dense housing types. While these factors intend to promote nodes not reliant on personal automobile use, they also have the capability of creating modernized, attractive, and competitively priced developments which can subsequently displace protected classes. This trend, known as gentrification, can become an inherit component of a climate friendly areas if cities do not carefully analyze a CFA's location and consider proper phase 2 protections to ensure the developments remains accessible to all populations.

Anti-Displacement Map Analysis

Recognizing this potential threat, DLCD has prepared an anti-displacement guide which classifies areas by neighborhood type which are characterized by their income profile, vulnerable classes, amount of precarious housing, housing market activity, and overall neighborhood demographic change. Each area is identified through the DLCD anti-displacement map, which can be found here: Anti-Displacement Map

Each neighborhood type is categorized by the following:

Affordable and Vuinerable

The tract is identified as a low-income tract, which indicates a neighborhood has lower median household income and whose residents are predominantly low-income compared to the city average. The neighborhood also includes precariously housed populations with vulnerability to gentrification and displacement. However, housing market in the neighborhood is still remained stable with no substantial activities yet. At this stage, the demographic change is not under consideration.

Early Gentrification

This type of neighborhoods represents the early phase in the gentrification. The neighborhood is designated as a low-income tract having vulnerable people and precarious housing. The tract has hot housing market, yet no considerable changes are found in demographics related to gentrification.

Active Gentrification

The neighborhoods are identified as low-income tracts with high share of vulnerable people and precarious housing. Also, the tracts are experiencing substantial changes in housing price or having relatively high housing cost found in their housing markets. They exhibit gentrification related demographic change. The latter three neighborhoods on the table are designated as high-income tracts. They have hot housing market as they have higher rent and home value with higher appreciation rates than the city average. They also do not have precarious housing anymore. However, Late Gentrification type still has vulnerable people with experiences in gentrification related demographic changes. The last two neighborhood types show the exclusive and affluent neighborhoods.



Late Gentrification

This type of neighborhoods does not have predominantly low-income households, but still have vulnerable population to gentrification. Their housing market exhibits the high housing prices with high appreciations as they have relatively low share of precarious housing. The neighborhoods experienced significant changes in demographics related to gentrification.

Becoming Exclusive

The neighborhoods are designated as high-income tracts. Their population is no longer vulnerable to gentrification. Precarious housing is not found in the neighborhoods. However, the neighborhoods are still experiencing demographic change related to gentrification with hot housing market activities.

Advanced Exclusive

The neighborhoods are identified as high-income tracts. They have no vulnerable populations and no precarious housing. Their housing market has higher home value and rent compared to the city average, while their appreciation is relatively slower than the city average. No considerable demographic change is found in the neighborhoods.

Unassigned

The unassigned tracts have not experienced any remarkable changes in demographics or housing markets. The neighborhood has been stable with unnoticeable change, yet this does not necessarily mean that there is no need for extra care compared to other neighborhoods with assigned types. This neighborhood may call attention to more care of what is actually going on the ground. Planners need to engage with the communities to make sure the neighborhood is stable while aligning with community needs and desires.

Neighborhood Types Present Within the Proposed CFA

As proposed, the candidate CFA for Central Point currently lies within a census tract 11 of Jackson County, which is identified by the neighborhood type: Late Gentrification, see the following map.

Attachment: Central Point Final Study Draft (1773 : Climate Friendly Area (CFA) Study)

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Suggested Strategies

Referring to DLCD's housing productions strategies, which can be found here, RVCOG has identified the following strategies to ensure that a climate friendly areas acts as an equitable community. In selecting strategies RVCOG prioritized strategies color coded as green for the Late Gentrification neighborhood type for their likeliness to generate little to no adverse impact, factoring in local context and feasibility as well.

Category A: Zoning and Code Changes

A03: Density or height bonuses for affordable housing.

Cities could consider introducing a height and density bonus for developments which introduce units between 30% - 120% of the average median income (AMI). RVCOG suggests using the CFA thresholds as a potential model for such bonuses, in the case of Central Point potentially allowing an increased 10 feet of maximum height and additional 5 dwelling units per acre.

A07: Single Room Occupancy

Single room units, such as junior accessory dwelling units, present a new housing typology not commonly considered among residential zones. Enabling this use as a permitted accessory component of a multi-unit development afford developers the opportunity to provide unique housing arrangements and a variety of units at different price points.

A14: Re-examine Mandated Ground Floor Use

The City of Bend has determined that while lively streetscape in a dense environment is a worthy goal, mandating that ground floors be occupied by commercial uses when the surrounding market forces can't support such a use can contribute to decreased development or loss of area for dwelling units.

Category B: Reduce regulatory Impediments

B10: Public Facility Planning

Factoring that some of the proposed CFA sites are largely vacant, assisting in providing public facilities could make these sites more attractive for development. Furthermore, assisting in the providing public facilities may enable the city to prioritize key connections or better plan for expansion in the future.

B07: Flexible Regulatory Concessions for Affordable Housing

Considering that cities within the 10,000-24,999 are in one of the lower ranges for prescriptive CFA standards, enabling affordable housing to move into some of the upper thresholds could present a unique advantage further attract affordable housing. Furthermore, this strategy enables a CFA to evolve directly in response to its City's population growth, possibly resulting in a CFA pre-emptively meeting the next threshold's requirements.



B19: Survey Applicant on Development Program Decision-Making

User feedback can help illustrate frustrations or pitfalls in the planning process not seen by staff. Utilizing a survey as litmus test for ease of development within a CFA can serve as valuable asset not only to the CFA, but the City's Planning department as a whole.

Category C: Financial Incentives

C01: Reduce or exempt SDC's for needed housing.

SDC's are often seen as necessary yet prohibitive cost associated with new development. Affording exemptions for needed dense and affordable housing helps clear the way for development, while commercial developers seeking to capitalize on attractive areas by constructing recreational or properties can bear part of the burden.

C04: Incentivize Manufactured and Modular Housing.

Manufactured and modular housing could be a popular option in vacant CFA areas as it can be constructed for less cost and added on to as a larger population occupies the CFA. Modular housing also supports the owned rather rented housing, a notion that could ensure a CFA acts as equitable community for permanent residents and doesn't become an area merely for vacation rentals.

Category D: Financial Resources

D02: Low Income Housing Tax Credit (LIHTC).

Federal tax credits represent an external opportunity for an affordable housing development to feasibly occur within a city. Disclaiming these opportunities to developers comes at little cost to the city, and can facilitate mixed income housing that contributes to a more diverse set of demographics within a CFA.

D09: Demolition Taxes

A demolition tax can ensure that new development within a CFA introduces a greater density than the existing structure or be forced to be pay a tax to fund a housing trust fund. Demolition taxes help mitigate the effects of higher density, aging housing being replaced by lower density, newer, market-rate homes, which could occur if the CFA is sited in a more historic area of a community, or the introduction of the CFA regulation introduce more affluent populations seeking close proximity to mixed uses.

D09: Construction Excise Tax

Seeing as the CFA's are located on vacant land, a construction excise tax seems to be an apt solution to ensure development of a CFA accrues funds for affordable housing projects both within the CFA and elsewhere.

Category E: Tax Exemption and Abatement

E03: Vertical Housing Development Zone Tax Abatement

This housing production strategy authorized ORS 307.841 directly aligns with the live work environment that's meant to appear within CFA's and is natural candidate to assist in mixed use development. The effectiveness of this strategy could be somewhat bound by a CFA's respective height limits but coupled with affordable housing density bonuses could be quite effective.

E04 & E05: Multiple Unit Tax Exemptions (Property and Limited taxes)

Similar to the Vertical Housing Tax Abatement, the multiple unit tax exemptions could serve as a symbiotic strategy to the type of development intended to occur within a CFA. Whether this strategy seeks to aid in overall feasibility by being a long-term exemption or aid in the initial

E10: Delayed tax Exemptions

Delayed tax exemptions can be seen as a viable strategy to allow new development recoup construction costs and establish a profitable base before falling below 80% AMI. This strategy could benefit initial developments in CFA's, and later assist them in serving a new economic bracket when the area becomes more developed.

Category F: Land, Acquisition, Lease, and Partnerships

F17: Designated Affordable Housing Sites

Designating CFA's partly or entirely as affordable housing sites can ensure the best use of the land in the future. While price control measures may ward off developers initially, highlighting tax exemptions and streamlined planning process coupled with the relative newness of the CFA regulations may highlight these areas as feasible location for affordable housing.

F19: Affordable Housing Preservation Inventory

Identifying and inventorying areas currently hosting affordable housing enables staff to examine what contextual factors have led them to appear in their community, and also informs areas to proceed with caution when expanding the CFA.

City staff are encouraged to review and evaluate the list of strategies when it comes time for phase 2 zoning reform.



Appendix A

Acronyms to Remember:

Regulatory:

- LCDC = Land Conservation & Development Commission
- DLCD = Department of Land Conservation & Development
- OAR = Oregon Administrative Rules
- CFA = Climate Friendly Area
- CFEC = Climate Friendly & Equitable Community

Technical:

- HNA = Housing Needs Assessment
- HCA = Housing Capacity Analysis
- NDA = Net Developable Area
- HUC = Housing Units Captured
- MF = Multifamily Housing
- SF = Single Family Housing



Climate Friendly Areas Study

City of Central Point, OR

June 7th, 2023



Rogue Valley
Council of Governments

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