



City of Tigard

Tigard Workshop Meeting – Agenda

TIGARD CITY COUNCIL & TOWN CENTER DEVELOPMENT AGENCY

MEETING DATE AND TIME: October 20, 2020 - 6:30 p.m.

MEETING LOCATION: Remote participation only. See **PUBLIC NOTICE** below.

PUBLIC NOTICE: In accordance with the City of Tigard's Emergency Declaration related to COVID-19 and [Oregon House Bill 4212](#), this will be a virtual meeting where Council and staff will participate remotely.

There will be no verbal public testimony during this meeting. Written public comment may be submitted electronically at www.tigard-or.gov/Comments. All comments must be submitted before 4:30 p.m. on the day of the meeting.

VIEW LIVE VIDEO STREAMING ONLINE: http://www.tigard-or.gov/city_hall/council_meeting.php

CABLE VIEWERS: Workshop meetings are broadcast on Tualatin Valley Community TV on Channel 28. Meetings are replayed on the following schedule:

- Every Sunday at 12 a.m.
- Every Monday at 1 p.m.
- Every Wednesday at 2 p.m.
- Every Thursday at 12 p.m.
- Every Friday at 10:30 a.m.

SEE ATTACHED AGENDA



City of Tigard

Tigard Workshop Meeting – Agenda

TIGARD CITY COUNCIL & TOWN CENTER DEVELOPMENT AGENCY

MEETING DATE AND TIME: October 20, 2020 - 6:30 p.m.

MEETING LOCATION: Remote participation only.

6:30 PM

1. WORKSHOP/BUSINESS MEETING
 1. Call to Order- City Council & Town Center Development Agency
 2. Roll Call
 3. Pledge of Allegiance
 4. Call to Council and Staff for Non-Agenda Items

2. COUNCIL BRIEFING ON THE ELIMINATION OF LIBRARY FINES TO ALIGN WITH WASHINGTON COUNTY COOPERATIVE LIBRARY SERVICES (WCCLS) **6:30 p.m. estimated time**

3. CONSIDER A RESOLUTION ADOPTING A UTILITY BILL RELIEF PROGRAM FOR RENTERS **6:45 p.m. estimated time**

4. TOWN CENTER DEVELOPMENT AGENCY - UPDATE ON SUBSTANTIAL AMENDMENT TO THE CITY CENTER TAX INCREMENT FINANCING (TIF) DISTRICT PLAN **7:15 p.m. estimated time**

5. RECEIVE BRIEFING ON HALL BOULEVARD JURISDICTIONAL TRANSFER PROCESS **7:30 p.m. estimated time**

6. CONSIDER A RESOLUTION OF NECESSITY RELATED TO EASEMENT ACQUISITION FOR THE FANNO CREEK TRAIL **8:00 p.m. estimated time**

7. RECEIVE BRIEFING ON THE WATER SYSTEM MASTER PLAN UPDATE PROJECT **8:10 p.m. estimated time**

8. NON AGENDA ITEMS

9. ADMINISTRATIVE REPORT

10. EXECUTIVE SESSION **8:55 estimated time**

The Tigard City Council will go into Executive Session to discuss the employment of a public officer under ORS 192.660 (2)(a). All discussions are confidential and those present may disclose nothing from the Session. Representatives of the news media are allowed to attend Executive Sessions, as provided by ORS 192.660(4), but must not disclose any information discussed. No Executive Session may be held for the purpose of taking any final action or making any final decision. Executive Sessions are closed to the public.

11. ADJOURNMENT **9:25 p.m. estimated time**

AIS-4428

2.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 15 Minutes

Agenda Title: Council Briefing on the Proposal to Eliminate Library Fines from Washington County Cooperative Library Services (WCCLS)

Prepared For: Halsted Bernard **Submitted By:** Margaret Reh, Library

Item Type: Update, Discussion, Direct Staff **Meeting Type:** Council Workshop Mtg.

Public Hearing No

Newspaper Legal Ad Required?:

Public Hearing Publication

Date in Newspaper:

Information

ISSUE

Washington County Cooperative Library Services (WCCLS) Executive Board will recommend that the Washington County Board of Commissioners approve the elimination of overdue fines for library materials and the waiver of past overdue fines.

STAFF RECOMMENDATION / ACTION REQUEST

N/A

KEY FACTS AND INFORMATION SUMMARY

Halsted Bernard, Director of Library Services, will present the rationale and impact of eliminating overdue fines for library patrons.

OTHER ALTERNATIVES

N/A

COUNCIL OR TCDA GOALS, POLICIES, MASTER PLANS

N/A

DATES OF PREVIOUS CONSIDERATION

Information on this fine-free proposal was included in the Council newsletter of July 30th, 2020.

AIS-4422

3.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 30 Minutes

Agenda Title: Tigard AID: Consider Resolution to Include Renters in the Program and Extending Program Duration

Prepared For: Toby LaFrance, Finance and Information Services

Submitted By: Mai Quach, Finance and Information Services

Item Type: Resolution
Update, Discussion, Direct Staff

Meeting Type: Council Workshop Mtg.

Public Hearing: No

Publication Date:

Information

ISSUE

Shall Council adopt a resolution that repeals Resolution 20-47, incorporating its Tigard AID components into this resolution, expanding the Tigard AID program to include assistance to residential and commercial renters/tenants, continuing the Tigard AID assistance to June 20, 2021, and extending the waiver of late fees and water shutoff actions until April 1, 2021.

STAFF RECOMMENDATION / ACTION REQUEST

Staff recommends approval of the resolution.

KEY FACTS AND INFORMATION SUMMARY

On September 15, 2020, Council gave direction to have staff look into further expanding the Tigard AID program to include financial assistance to renters of multi-family housing whose water and sewer utilities are included in their rent or billed to them by the owners. It was further recommended that we look into tenants of commercial complexes as well. These renters/tenants do not have utility accounts with the City of Tigard. The accounts are under the owner of the multi-family housing or commercial complexes. Because these renters/tenants do not have accounts with Tigard, we were not able to provide assistance to them when the program was initially implemented. Realizing that these renters have also been impacted by COVID-19, Council directed staff to look into including renters/tenants in the Tigard AID assistance program.

On September 22, 2020, Council passed Resolution No. 20-47 that expanded the amount of aid available to residential and commercial customers, approved waiving all late fees and shutoff actions for utility accounts accruing as of March 16, 2020 and continuing until January 1, 2021. In addition, the Tigard AID program is set to end on December 31, 2020.

This resolution is being put forth to expand the Tigard AID program as follows:

- Provide assistance to renters of multi-family housing with an unemployed or underemployed person in the household due to COVID-19 for \$100 per month to cover their water/sewer/stormwater utility bill. The City has determined \$100 per month represents the estimated monthly average a renter of a multi-family unit would pay for their Tigard utility bill.
- Provide assistance to tenants of commercial complexes financially impacted by COVID-19 for \$100 per month unless they can provide documentation that shows their water/sewer/stormwater utility portion exceeds \$100 per month. Then, assistance can be provided for up to \$500 per month.
- Continue assistance to residential and commercial customers established in Resolution 20-47.
- Extend Tigard AID assistance for customers and renters/leasers until June 30, 2021.
- Extend the waiver of late fees and shutoff actions until April 1, 2021.

Staff is seeking to extend the Tigard AID program to June 30, 2021 to provide time for the new provisions to help residents and businesses. The current end date of December 31, 2020 will not provide sufficient time to adequately communicate with residents and businesses that rent/lease in Tigard. Staff is further recommending that the waiver of late fees and shutoffs end prior to the end of the Tigard AID program. While extensive outreach has occurred, some customers may not be aware of the program and the only way they may become aware is when a shutoff action is imminent. By ending the waiver of late fees and shutoff actions on April 1, 2021 there may be Tigard AID budget still available for these customers when they need it.

OTHER ALTERNATIVES

Council could elect to not make any changes to the City's existing program or offer additional amendments.

COUNCIL GOALS, POLICIES, APPROVED MASTER PLANS

DATES OF PREVIOUS COUNCIL CONSIDERATION

- 9/22/2020 - Council approved Resolution No. 20-47 expanding eligibility for monthly utility credits, waiving late fees, and suspending shutoffs.

Attachments

Resolution

**CITY OF TIGARD, OREGON
TIGARD CITY COUNCIL
RESOLUTION NO. 20-**

A RESOLUTION REPEALING RESOLUTION NO. 20-47, EXPANDING ELIGIBILITY FOR TIGARD'S PROGRAM TO PROVIDE A MONTHLY UTILITY PAYMENT FOR MULTIFAMILY RESIDENTIAL AND BUSINESS TENANTS AFFECTED BY COVID-19, AND EXTENDING THE DURATION OF THE PROGRAM

WHEREAS, on March 17, 2020, Tigard City Council passed Resolution No. 20-14, declaring an emergency related to COVID-19 and temporarily waiving late fees and shutoff actions on utility accounts until the end of the emergency.

WHEREAS, on May 12, 2020, Tigard City Council passed Resolution No. 20-24, approving a monthly utility credit of up to \$40 per month for unemployed residential utility customers and business customers negatively affected by the COVID-19 pandemic; and

WHEREAS, in early August, Washington County authorized \$3 million in utility assistance funding as part of Washington County CARES, which was intended to provide payment of full utility bills to unemployed and underemployed residential customers, as well as business customers adversely affected by COVID-19; and

WHEREAS, on September 22, 2020, Tigard City Council passed Resolution No. 20-47, which authorized a credit of up to the full amount per month towards a residential customer's Tigard utility account bill upon verification of unemployment or underemployment associated with the COVID-19 pandemic, authorized a credit of the full amount up to \$500 per month towards a commercial customer's Tigard utility account bill upon verification of negative impact from COVID-19 pandemic, and extended the waiving of late fees and shutoff actions to January 1, 2021; and

WHEREAS, Tigard City Council also wishes to provide assistance to multi-family or commercial tenant customers who have been financially affected by COVID-19, but who do not directly pay Tigard utility bills; and

WHEREAS, the City has determined \$100 per month represents the estimated monthly average a renter of a multi-family unit would pay for their Tigard utility bill.

WHEREAS, repealing Resolution No. 20-47 and incorporating utility bill credit assistance into this action will provide consistency among City assistance programs.

NOW, THEREFORE, BE IT RESOLVED by the Tigard City Council that:

SECTION 1: Resolution No. 20-47 is repealed and replaced with this resolution.

SECTION 2: Upon verification of unemployment or underemployment associated with the COVID-19 pandemic, as determined by the City of Tigard, the City may credit up to the full amount per month towards a residential customer's Tigard utility account bill. The credit is available to all residential customers served by a Tigard utility, including customers outside the city limits for whom Tigard provides water service. A customer must reapply for the credit each month in order to continue receiving it.

- SECTION 3: Upon verification that a business has been negatively impacted by COVID-19, such as for a forced closure or curtailment of operations, the City may credit up to \$500 per month towards a business customer's Tigard utility account bill. The credit is available to all business customers served by a Tigard utility, including customers outside the city limits for which Tigard provides water service. A customer must reapply for the credit each month in order to continue receiving it.
- SECTION 4: Upon verification of unemployment or underemployment associated with the COVID-19 pandemic, as determined by the City of Tigard, the City may provide payment of \$100 per month to a resident of a multifamily unit in the Tigard Utility Billing Service Area. A party must reapply for the payment each month in order to continue receiving it.
- SECTION 5: Upon verification that a business has been negatively impacted by COVID-19, such as for a forced closure or curtailment of operations, the City may provide payment of either (a) \$100 per month, or (b) the actual amount paid by the business each month in Tigard utilities, up to \$500 per month, to a tenant of a commercial complex in the Tigard Utility Billing Service Area. A party must reapply for the payment each month in order to continue receiving it.
- SECTION 6: This utility bill payment program will remain in effect until June 30, 2021 or until the funding that the City has allocated for this program is spent, whichever comes first. The City has previously allocated \$625,000 for the residential program and \$125,000 for the business program.
- SECTION 7: The City may adopt rules and procedures to implement this utility payment program.
- SECTION 8: The City of Tigard will temporarily waive all late fees and shutoff actions for utility accounts accruing as of March 16, 2020 and continuing until April 1, 2021.
- SECTION 9: This resolution is effective immediately upon passage.

PASSED: This _____ day of _____ 2020.

Mayor - City of Tigard

ATTEST:

Deputy City Recorder - City of Tigard

AIS-4403

4.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 15 Minutes

Agenda Title: Update on Substantial Amendment to the City Center Tax Increment Financing (TIF) District Plan

Submitted By: Sean Farrelly,
Community Development

Item Type: Update, Discussion, Direct Staff **Meeting Type:** Town Center Development Agency

Public Hearing No

Newspaper Legal Ad Required?:

Public Hearing Publication

Date in Newspaper:

Information

ISSUE

Receive an update on the process for a Substantial Amendment to the City Center TIF District Plan.

STAFF RECOMMENDATION / ACTION REQUEST

Staff requests Council feedback on the proposed course of action.

KEY FACTS AND INFORMATION SUMMARY

Goal 2 of the Tigard City Council for 2019-21 is “Invest and connect key areas of the city to promote economic growth and community vitality.” Strategy 2.2 under this goal is to “Continue to make Downtown Tigard a place people want to be by making substantial progress on projects that attract new residential and business investment.” One of the tasks to implement this strategy is:

“Evaluate the size and scope of the City Center Urban Renewal Plan to determine whether tax increment resources in the downtown are sufficient to meet council objectives. Prepare recommendations regarding the City Center urban renewal area’s possible continuation.”

On August 18, 2020 Council was briefed on the City Center Futures project which included an analysis of the City Center Urban Renewal Plan (CCURP). The CCURP was adopted in 2006 with an active period of 20 years specified in the plan. After FY 2026, future debt cannot be incurred, thus the CCURP wouldn't be able to undertake new projects. However,

the tax increment revenue (TIF) would continue to be collected until the existing debt is retired. The authorized maximum indebtedness to undertake plan projects is \$22M. As the district approaches the final six years of its planned duration, it has used roughly \$10.4M of the indebtedness.

The CCURP was amended in 2017 to extend the district boundary, but no changes were made to the plan duration nor the maximum indebtedness. The pace of private sector development and TIF generation in the district have been slower than expected due to the deep recession soon after the plan adoption.

Of the 32 named CCURP infrastructure projects, 14 have been completed or are in various stages of planning. These include the Main Street and Burnham Street improvements, Universal Plaza, Rotary Plaza, and public restrooms. Only a handful of new infrastructure projects could be completed with the remaining authorized TIF, and that assumes additional funding sources (grants, SDC's, etc.).

After considering the status of the current district debt, remaining projects, and the Oregon state framework for urban renewal, the City Center Futures project recommendation was to pursue extending the duration of the current TIF District with an increased maximum indebtedness. The biggest benefit to this option is that the current district is building increment (i.e. revenue capacity) on a comparatively low frozen tax base. The increase in maximum indebtedness would be a substantial amendment to the CCURP, requiring voter approval.

A list of new or expanded projects in the TIF District that could be funded with the increased maximum indebtedness include:

- Contribution to a Parking Structure
- Construct New Streets from Downtown Connectivity Plan
- Affordable Housing Assistance
- Public space investments
- Land acquisition
- Station area improvements

Staff has estimated the costs of these projects to be approximately \$20 million.

Under Oregon statutes, an existing TIF District's maximum indebtedness can be increased up to 20 percent of its maximum indebtedness. In the City Center's case, this would be approximately \$6.65 million (\$4.4M (20% of \$22M), plus 3% annual inflation since 2006). Alternatively, the 20% limit may be exceeded with the concurrence of taxing districts representing at least 75% of the permanent tax rate in the district. This would greatly expand the number of CCURP projects that could be completed. Staff will begin discussing potential new maximum indebtedness with representatives from Tualatin Valley Fire and Rescue and Tigard Tualatin School District.

The City recently engaged Elaine Howard Consulting to assist with the technical aspects of the plan amendment.

The current goal is to prepare the substantial amendment for the May 2021 election, which would require a public hearing before Council no later than February 2021. Presentations will be made Board of the TCDA, Town Center Advisory Commission, Tigard Planning Commission, Washington County Board of Commissioners, plus a 45 day period to consult and confer with taxing jurisdictions.

OTHER ALTERNATIVES

The Board could direct staff to investigate another option.

COUNCIL OR TCDA GOALS, POLICIES, MASTER PLANS

2019-2021 Tigard City Council Goals

Strategy 2.2 Continue to make Downtown Tigard a place people want to be by making substantial progress on projects that attract new residential and business investment: Evaluate the size and scope of the City Center Urban Renewal Plan to determine whether tax increment resources in the downtown are sufficient to meet council objectives. Prepare recommendations regarding the City Center urban renewal area's possible continuation.

City Center Urban Renewal Plan

Tigard Comprehensive Plan

Special Planning Areas- Downtown

Goal 15.2 Facilitate the development of an urban village.

Tigard Strategic Plan 2020-2025

Strategic Priority 2: Create a well-connected, attractive, and accessible pedestrian network.

Objective 2.1: Create a well-connected pedestrian network that links all Tigard residents and businesses

Objective 2.2: Tigard's pedestrian network is attractive, accessible, safe, and well maintained

Strategic Priority 3: Ensure development and growth support the vision.

Objective 3.1: Pursue land development that maximizes public health benefits while increasing connection between people and community destinations

Objective 3.2: Focus development-associated resources in parts of the city that have the capacity to serve, house, employ, and attract the most people with the least impact on Tigard's natural systems and the climate.

Objective 3.3: Understand the effects of development on vulnerable Tigard residents and mitigate these impacts within projects and over time.

Objective 3.4: Proactively intervene as necessary to meet the housing needs of all community members.

Objective 3.5: Plan and create in a manner that reduces climate impacts to the maximum

extent practicable, especially for those most vulnerable.

DATES OF PREVIOUS CONSIDERATION

August 18, 2020 - TCDA Board received presentation on the City Center Futures TIF District plan analysis.

AIS-4421

5.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 30 Minutes

Agenda Title: Receive Briefing on Hall Boulevard Jurisdictional Transfer Process

Prepared For: Dave Roth, Community Development

Submitted By: Dave Roth, Community Development

Item Type: Update, Discussion, Direct Staff **Meeting Type:** Council Workshop Mtg.

Public Hearing: No

Publication Date:

Information

ISSUE

The City’s Transportation Strategy Team has asked that staff pursue a jurisdictional transfer of Hall Boulevard from Oregon Department of Transportation (ODOT) to the City.

STAFF RECOMMENDATION / ACTION REQUEST

This briefing is for informational purposes only. No action is requested at this time.

KEY FACTS AND INFORMATION SUMMARY

The Hall Boulevard Jurisdictional Transfer Project has been underway since Spring of 2020. The purpose is to reach agreement on the terms of a transfer of the roadway and associated right-of-way assets on Hall Boulevard from the Oregon Department of Transportation (ODOT) to the City of Tigard. The section of Hall Boulevard under consideration for transfer stretches approximately 3-miles from SW Locust St to its terminus at SW Durham Rd.

Benefits of a Tigard-owned and operated Hall Boulevard would be the ability to plan and implement future roadway improvements to better match local transportation and land use needs and policies, the ability to maintain roadway assets to a higher standard, and the ability to ensure this key public right-of-way equitably serves the needs of Tigard’s entire community regardless of mode of travel, age, or ability.

The project was initiated with a Tigard-commissioned Condition Assessment Study completed in March 2020. The study focused on determining the potential costs of bringing all associated roadway elements up to a “State of Good Repair” to provide a starting point for conversations and negotiations with ODOT. Roadway elements include pavement, curb ramps, sidewalks, stormwater facilities, traffic signals, illumination, and bridges. The study estimated approximately \$28 million in costs to bring these elements up to a good,

maintainable condition (if constructed in the current year).

In June 2020, the City of Tigard shared the Condition Assessment Study with ODOT regional staff to initiate the jurisdictional transfer process. The study was received well by ODOT and in the ensuing months, a team of Tigard and ODOT staff developed a Memorandum of Understanding (MOU) and shared work plan. During this time, staff from both agencies focused on gathering additional data through field studies and research for a more complete picture of the right-of-way asset conditions.

Although there is no set process for conducting a jurisdictional transfer, several key steps are typically followed. While ODOT and Tigard staff continue to make progress on these steps, Metro and ODOT are working on a “Regional Framework for Highway Jurisdictional Transfer.” This effort is twofold; first, it documents steps necessary for highway jurisdictional transfers, and second, it evaluates potential candidate regional highways for future transfer. The regional effort will not require transfer of any highway, nor does it commit any current or future funding to support transfers. City staff are attending to this process to determine whether and how it might help with the Hall Boulevard JT project.

ODOT staff continue working collaboratively with Tigard on the shared workplan as memorialized in the MOU. It is assumed that discussions around asset improvement requirements (and associated costs) and potential transfer funding opportunities will continue throughout 2021.

OTHER ALTERNATIVES

N/A

COUNCIL GOALS, POLICIES, APPROVED MASTER PLANS

City Strategic Plan 2020-2025

Priority 2 - Create a well-connected, attractive, and accessible pedestrian network.

Priority 3 – Ensure development advances the vision.

Objective 3.1: Pursue land development that maximizes public health benefits while increasing connection between people and community destinations

Objective 3.3: Understand the effects of development on vulnerable Tigard residents and mitigate these impacts within projects and over time.

2019-2021 Tigard City Council Goals -

Goal 2: Invest and connect key areas of the City to promote economic growth and community vitality.

Strategy 2.2: Continue to make downtown Tigard a place people want to be by making substantial progress on projects that attract new residential and business investment.

Design and engineering of the Universal Plaza

Transportation System Plan (TSP 2035)

Projects 45b, 45c, 45d, and 45e: Hall Boulevard improvements pending corridor study.

2020 Southwest Corridor Tigard/Tri-Met MOU

2.b: Tigard and Tri-Met to work jointly toward a jurisdictional transfer of Hall Boulevard

DATES OF PREVIOUS COUNCIL CONSIDERATION

N/A

Attachments

Hall JT PPT 10202020

City of Tigard

Council Briefing: Hall Boulevard Jurisdictional Transfer

October 20, 2020



Overview

- Relationship to Strategic Plan
- Context
- Process
- Next Steps
- Discussion



Tigard Strategic Plan

- Priority 2: Create a well-connected, attractive, and accessible pedestrian network.
 - Objective 2.1 Link residents and businesses
 - Objective 2.2 Attractive, accessible, safe, and well-maintained



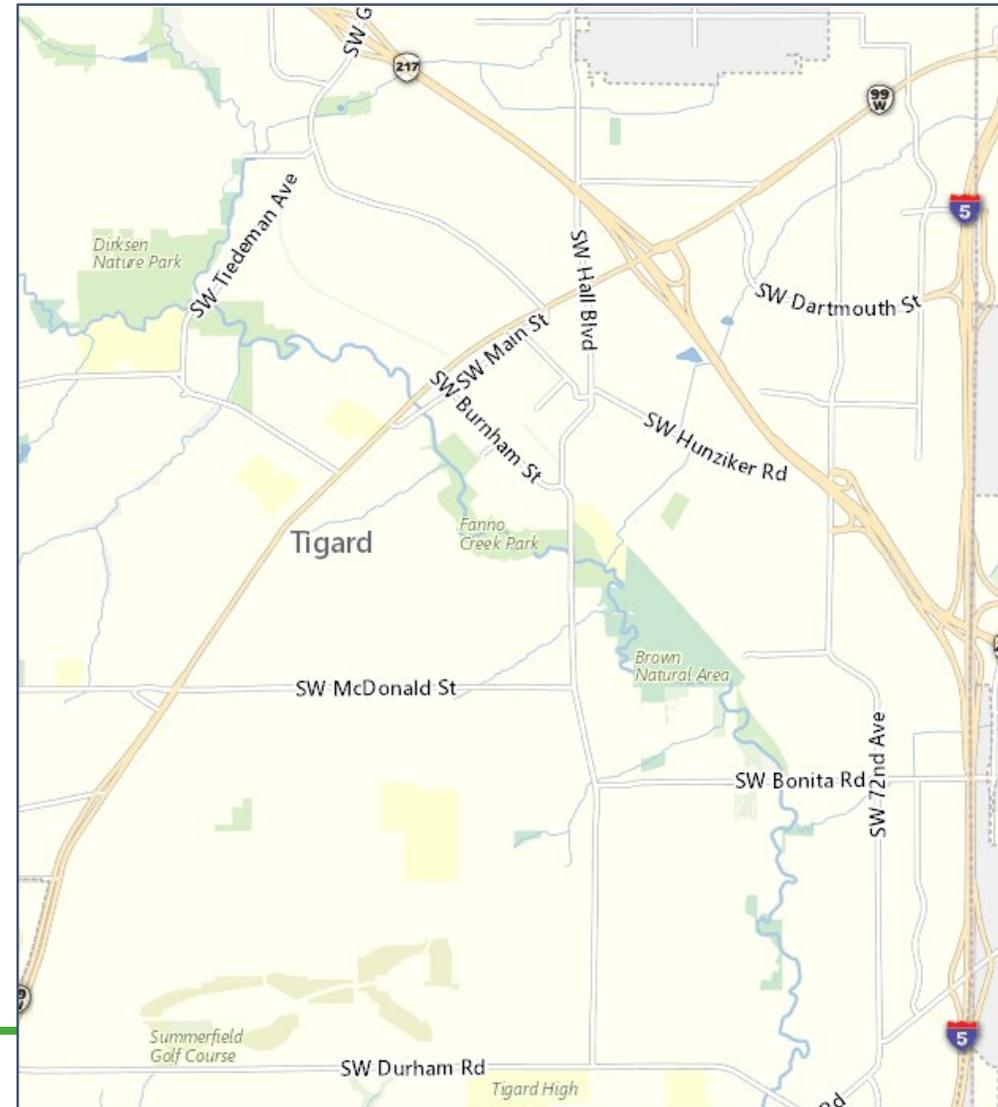
Tigard Strategic Plan

- Priority 3: Ensure development and growth support the vision
 - Objective 3.1 Maximize public health benefits while increasing connection between people and community destinations
 - Objective 3.2 Focused development with minimal impacts
 - Objective 3.3 Mitigate impacts to vulnerable populations
 - Objective 3.5 Reduce climate impacts, especially to vulnerable populations



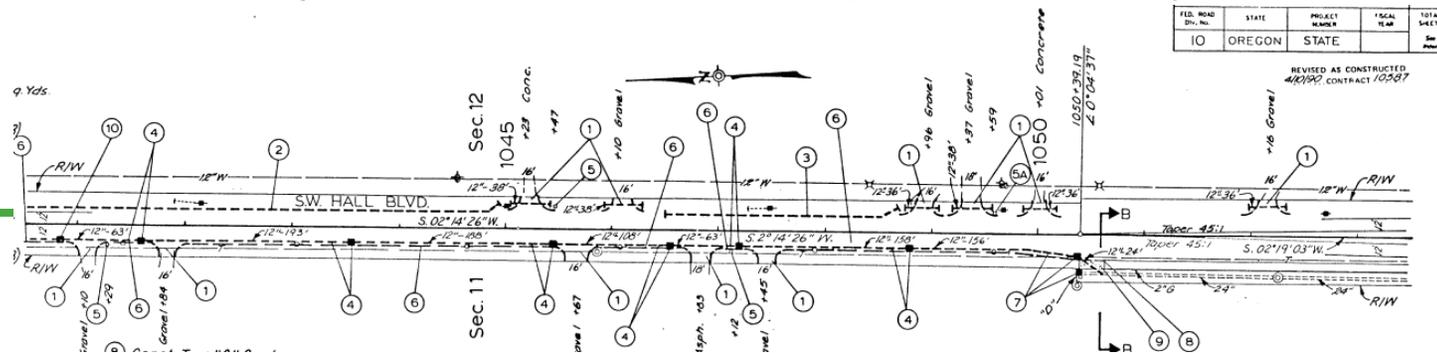
Context: Physical

- Spans approximately 3-miles between SW Locust Rd and SW Durham Rd
- Arterial functional class
- 17,000 ADT (~2.9% Freight)
- 2 – 5 lanes with 76'-100' right of way
- 8 signalized intersections
- Inconsistent pedestrian/bicycle/ADA facilities
- Pavement generally in poor condition



Context: Policy

- Tigard Transportation System Plan (TSP 2035)
 - Upgrade Hall Boulevard pending future corridor study
 - Targeted intersection improvements (some completed)
- Southwest Corridor Light Rail
 - Transit-Oriented Development and Downtown Station Area
 - ODOT Blueprint for Urban Design process
- Metro / ODOT Framework for Highway Jurisdictional Transfer
- Downtown Re-Imagined Land Use and Transportation Study



Regional Framework for Highway Jurisdictional Transfers

- Identification of state-owned routes that should be considered and evaluated for transfer
- Roadways under evaluation were originally built by the State, but now serve primarily local, or local and regional trips.
- Project evaluation identified two roadways of significant for Tigard
 - Pacific Highway (HWY 99W)
 - Hall Boulevard (HWY141)
- Does not commit agencies for transfers or commit funding to support transfers, but identifies candidates and a process to follow



Process

- Spring of 2020
 - Tigard commissioned Condition Assessment Study
- Summer 2020
 - Initiated transfer conversation with ODOT
- Fall 2020 and into 2021
 - In process of executing on MOU
 - Further data collection to inform assessment
 - Working toward shared agreement to define “State of Good Repair” (SOGR)



Tigard Condition Assessment Study

- Assessment of existing condition of assets within the public right of way along SW Hall Boulevard
- Identified immediate needs and costs assumed to be required to bring assets up to a State of Good Repair
 - Pavement, curb ramps, sidewalks, stormwater facilities, traffic signals, illumination, bridge replacement
- Preliminary planning-level cost assumptions



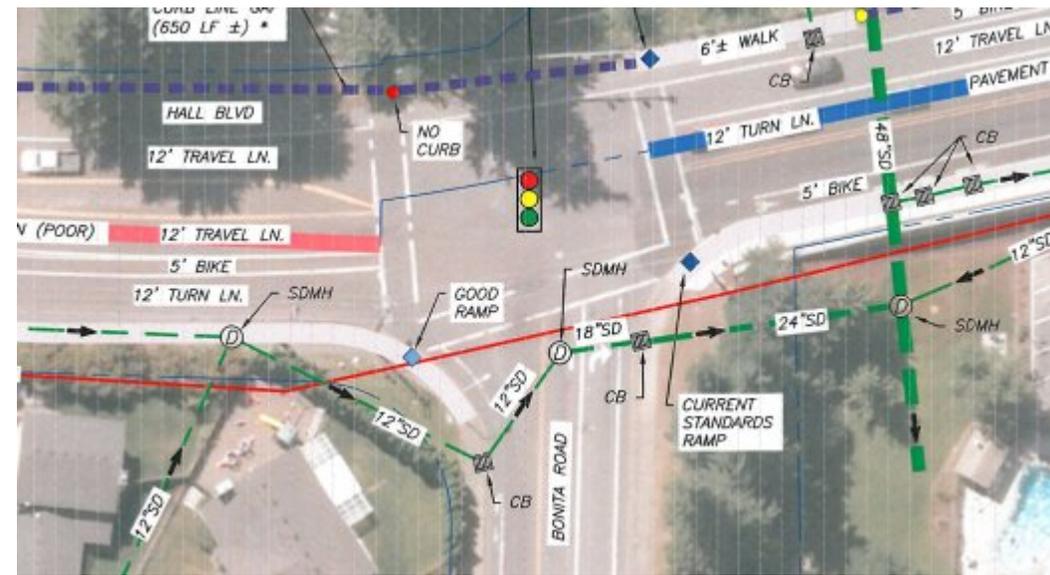
Memorandum of Understanding (MOU)

- Formalizes Tigard and ODOT shared workplan
- Identifies additional tasks and data needed to refine SOGR cost estimate
 - Traffic signals, pavement condition, utilities, bridges and culverts, standardization of asset definitions
- Document agreement on safety/immediate enhancement/long-term enhancements
- Begin development of Intergovernmental Agreement terms for transfer
- Coordinate on active projects identified in Statewide Transportation Improvement Program (STIP)



Next Steps

- Continue Executing on MOU
- Begin drafting IGA
- Seek funding opportunities
- Tigard staff to continue studying impacts of asset ownership
 - Transportation Planning
 - Downtown Re-imagined
 - CIP/Budget Planning
 - Pavement Management Program



Discussion



AIS-4429

6.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 10 Minutes

Agenda Title: Consider a Resolution of Necessity Related to Easement Acquisition for the Fanno Creek Trail Connections Project

Prepared For: Zach Morris, Public Works

Submitted By: Caroline Patton, Central Services

Item Type: Resolution

Meeting Type: Council Business Meeting - Main

Public Hearing: No

Publication Date:

Information

ISSUE

Shall City Council approve a resolution of necessity to acquire permanent easements and temporary construction easements for the Fanno Creek Trail Connections Project within the Regional Flexible Funding Allocation (RFFA) Grant?

STAFF RECOMMENDATION / ACTION REQUEST

Staff recommend approval of the resolution of necessity as presented.

KEY FACTS AND INFORMATION SUMMARY

The Fanno Creek Trail Connections Project (the Project) will construct three new segments of the Fanno Creek Trail (Woodard Park to Grant Avenue, Tigard Library to Milton Court, and 85th Avenue to Ki-a-Kuts Bridge) and improve the existing segment from Ash Avenue to Hall Boulevard. In October of 2016, the City entered into an IGA (Agreement 31030) with ODOT and Metro related to the project receiving federal-aid funding for a portion of the total project cost (the Project Agreement). The Project Agreement described the general scope and funding for the right of way activities to be carried out as would further be established under a required subsequent Right of Way Services Agreement.

The City and ODOT entered into the Right of Way Services Agreement (Agreement 34320) in August 2020, which further defined the roles and responsibilities of the parties regarding real property to be used as part of the Project. ODOT is ultimately responsible for the certification and oversight of all right of way activities for the Project as there are no local public agencies certified to independently administer federal-aid projects for right of way

services. However, establishing project necessity and authorizing property acquisition and condemnation still lies within the purview of the City, hence Council is being asked to consider the Project's resolution of necessity.

OTHER ALTERNATIVES

Council could elect to not approve the resolution of necessity, which would result in the Project not being able to move ahead with acquiring the easements necessary to construct, use, and maintain the Fanno Creek Trail where currently designed under this Project. ODOT would then halt all work on the Project. While not guaranteed, there is a possibility that failure to approve the Resolution of Necessity could result in the City needing to refund the Federal Highway Administration the federal funds spent on the Project to date.

COUNCIL GOALS, POLICIES, APPROVED MASTER PLANS

The Project aligns with the Trail System Master Plan as well as supports the City's strategic vision to create a well-connected, attractive, and accessible pedestrian network.

DATES OF PREVIOUS COUNCIL CONSIDERATION

This resolution of necessity has not been given specific consideration previously, however, Council did previously approve entering into the Project Agreement, which referenced the need for the subsequent Right of Way Services Agreement.

Fiscal Impact

Fiscal Information:

The Project Agreement established the funding split between the federal-aid funding and the City's local share, including for the property acquisition phase. Approval of the Resolution of Necessity should not have any fiscal implications beyond those contained in the existing Project Agreement.

Attachments

Resolution

Exhibit A

Summary of Exhibits

CITY OF TIGARD, OREGON
TIGARD CITY COUNCIL
RESOLUTION NO. 20-

A RESOLUTION DECLARING THE NEED TO ACQUIRE PROPERTY FOR THE FANNO CREEK TRAIL CONNECTIONS PROJECT AND AUTHORIZING EMINENT DOMAIN AND IMMEDIATE POSSESSION IF NECESSARY

WHEREAS, the City Charter grants the City of Tigard (the “City”) the authority to acquire land for public purposes; and

WHEREAS, the City is authorized by ORS 35.015 et seq. to purchase, acquire, condemn, use, and enter upon property within or without its corporate limits as provided for by law; and

WHEREAS, the construction of the Fanno Creek Trail Connections Project (RFFA Grant) (CIP 92046) (the “Project”) is in the public interest and is an approved capital improvement project identified in the City of Tigard Capital Improvement Plan; and

WHEREAS, the City, the Oregon Department of Transportation (“ODOT”), and Metro previously entered into Agreement 31030, “Local Agency Agreement, Congestion Mitigation and Air Quality Program, Fanno Creek Trail: Woodard Park-Bonita Rd/85th Ave-Tualatin Br.” (the “Project Agreement”); and

WHEREAS, the Project Agreement described the general scope and funding for the property acquisition phase of the Project, and required a subsequent agreement between the City and ODOT to further clarify roles and responsibilities related to property acquisition activities; and

WHEREAS, the City and ODOT thereby entered into Agreement 34320, “Intergovernmental Agreement for Right of Way Services”, further defining the roles and responsibilities of the parties regarding real property to be used as part of the Project; and

WHEREAS, to accomplish the Project, it is necessary to acquire permanent easements and related temporary construction easements, and it may be necessary to obtain immediate possession of property to complete the Project in a timely manner.

NOW, THEREFORE, BE IT RESOLVED by the Tigard City Council that;

SECTION 1: The public improvements for the Project have been planned, designed, located and will be constructed in a manner that will be most compatible with the greatest public benefit and the least private injury or damage.

SECTION 2: It is in the public interest and necessary to acquire permanent bikeway and pedestrian way easements and temporary construction easements, as shown in Exhibit A, attached hereto and incorporated herein, so as to locate and construct the Project.

SECTION 3: City staff and legal counsel are authorized and directed to negotiate in good faith with the owners and other persons holding an interest in the real property described in the attached Exhibit A. If the City Manager or designee determines that a satisfactory agreement for acquisition of any property or interest therein is not likely to be reached in a timely manner,

then staff and legal counsel are authorized to obtain immediate possession and to file and take all such actions as are necessary to pursue eminent domain proceedings in the name of the City of Tigard for acquisition of such property.

SECTION 4: Upon the trial of any suit or action to acquire the real property interests, legal counsel is authorized to make such stipulation, agreement, or admission as in their judgment may be in the interest of the City of Tigard and to take possession of the real property at such time as is appropriate in their judgment without necessity of further City Council approval.

SECTION 5: This resolution is effective immediately upon passage.

PASSED: This _____ day of _____ 2020.

Mayor - City of Tigard

ATTEST:

Deputy City Recorder - City of Tigard

TL 301
EXHIBIT A
TEMPORARY CONSTRUCTION EASEMENT
JOB NO. 1500087
28 JULY 2020

LEGAL DESCRIPTION

A PORTION OF THAT PARCEL OF LAND DESCRIBED AS PARCEL I IN SPECIAL WARRANTY DEED STATUTORY FORM TO TIGARD INDUSTRIAL LLC, AN OREGON LIMITED LIABILITY COMPANY IN DOCUMENT NUMBER 99027431, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, LYING WITHIN THE HEREINAFTER DESCRIBED TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY LINE OF THAT PARCEL OF LAND DESCRIBED IN TRAIL AND GREENWAY EASEMENT TO METRO, AN OREGON MUNICIPAL CORPORATION IN DOCUMENT NUMBER 2010-026710, WASHINGTON COUNTY DEED RECORDS, SAID POINT BEING SOUTH 72°10'48" EAST 89.08 FEET FROM THE SOUTHEAST CORNER OF LOT 7 OF KAROL COURT, WASHINGTON COUNTY PLAT RECORDS; THENCE ALONG SAID NORTHERLY LINE SOUTH 72°10'48" EAST 51.08 FEET; THENCE SOUTH 70°42'47" EAST 224.83 FEET; THENCE SOUTH 23°45'49" EAST, 90.79 FEET; THENCE SOUTH 72°09'52" EAST 205.42 FEET; THENCE NORTH 52°21'11" EAST 73.13 FEET; THENCE LEAVING SAID NORTHERLY LINE NORTH 17°54'34" EAST 39.26 FEET; THENCE NORTH 73°56'53" WEST 89.62 FEET; THENCE SOUTH 17°50'08" WEST 46.73 FEET; THENCE NORTH 72°09'52" WEST 121.26 FEET; THENCE NORTH 26°42'36" WEST 42.09 FEET; THENCE NORTH 18°44'41" EAST 380.18 FEET; THENCE NORTH 42°51'27" EAST 74.98 FEET TO THE EASTERLY LINE OF VACATED SW LUCAS AVENUE (40 FEET WIDE); THENCE ALONG SAID EASTERLY LINE NORTH 24°14'09" EAST 30.01 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SW TIGARD STREET (40 FEET WIDE); THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 64°11'08" WEST 40.02 FEET TO THE WESTERLY LINE OF SAID VACATED SW LUCAS AVENUE; THENCE ALONG SAID WESTERLY LINE SOUTH 24°14'09" WEST 30.00 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 42°51'27" WEST 75.69 FEET; THENCE SOUTH 18°44'41" WEST 335.33 FEET; THENCE SOUTH 63°51'27" WEST 42.34 FEET; THENCE NORTH 71°01'47" WEST 273.06 FEET; THENCE SOUTH 17°46'11" WEST 32.19 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 9,750 SQUARE FEET OR 0.224 ACRES, MORE OR LESS.

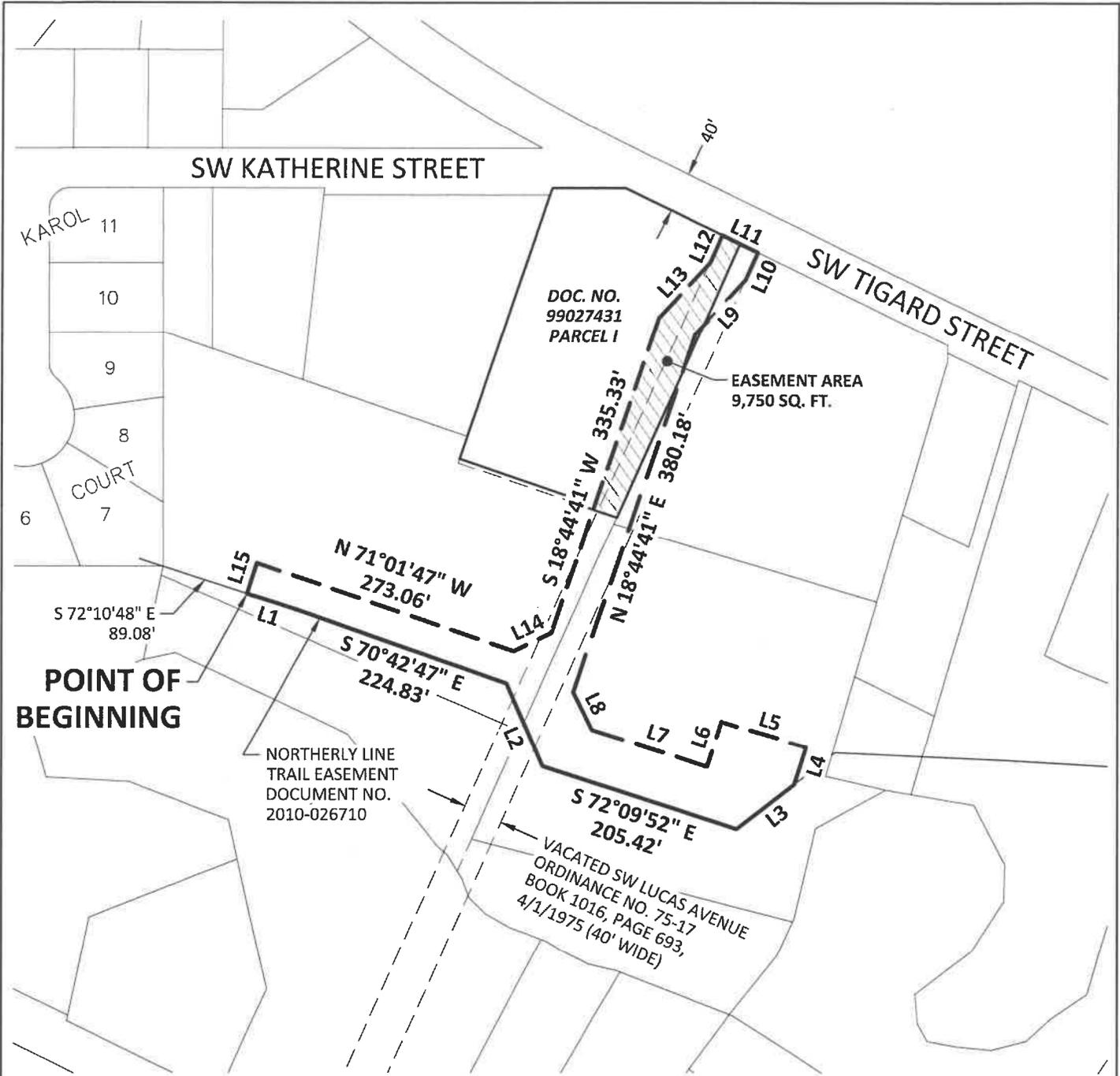
THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21



LINE TABLE

LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L1	S 72°10'48" E	51.08'	L9	N 42°51'27" E	74.98'
L2	S 23°45'49" E	90.79'	L10	N 24°14'09" E	30.01'
L3	N 52°21'11" E	73.13'	L11	N 64°11'08" W	40.02'
L4	N 17°54'34" E	39.26'	L12	S 24°14'09" W	30.00'
L5	N 73°56'53" W	89.62'	L13	S 42°51'27" W	75.69'
L6	S 17°50'08" W	46.73'	L14	S 63°51'27" W	42.34'
L7	N 72°09'52" W	121.26'	L15	S 17°46'11" W	32.19'
L8	N 26°42'36" W	42.09'			



SCALE: 1" = 150'



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EXHIBIT MAP W-TL-301-TCE TEMPORARY CONSTRUCTION EASEMENT NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M. CITY OF TIGARD / WASHINGTON COUNTY / OREGON	DATE: 28 JULY 2020
	DRAWN BY: JBJ
	CHECKED BY: JRD
	PROJECT NO. 1500087
	SHEET: Page 2 of 29

TL 302

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

A PORTION OF THAT PARCEL OF LAND DESCRIBED AS PARCEL II N SPECIAL WARRANTY DEED STATUTORY FORM TO TIGARD INDUSTRIAL LLC, AN OREGON LIMITED LIABILITY COMPANY IN DOCUMENT NUMBER 99027431, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, LYING WITHIN THE HEREINAFTER DESCRIBED TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY LINE OF THAT PARCEL OF LAND DESCRIBED IN TRAIL AND GREENWAY EASEMENT TO METRO, AN OREGON MUNICIPAL CORPORATION IN DOCUMENT NUMBER 2010-026710, WASHINGTON COUNTY DEED RECORDS, SAID POINT BEING SOUTH 72°10'48" EAST 89.08 FEET FROM THE SOUTHEAST CORNER OF LOT 7 OF KAROL COURT, WASHINGTON COUNTY PLAT RECORDS; THENCE ALONG SAID NORTHERLY LINE SOUTH 72°10'48" EAST 51.08 FEET; THENCE SOUTH 70°42'47" EAST 224.83 FEET; THENCE SOUTH 23°45'49" EAST, 90.79 FEET; THENCE SOUTH 72°09'52" EAST 205.42 FEET; THENCE NORTH 52°21'11" EAST 73.13 FEET; THENCE LEAVING SAID NORTHERLY LINE NORTH 17°54'34" EAST 39.26 FEET; THENCE NORTH 73°56'53" WEST 89.62 FEET; THENCE SOUTH 17°50'08" WEST 46.73 FEET; THENCE NORTH 72°09'52" WEST 121.26 FEET; THENCE NORTH 26°42'36" WEST 42.09 FEET; THENCE NORTH 18°44'41" EAST 380.18 FEET; THENCE NORTH 42°51'27" EAST 74.98 FEET TO THE EASTERLY LINE OF VACATED SW LUCAS AVENUE (40 FEET WIDE); THENCE ALONG SAID EASTERLY LINE NORTH 24°14'09" EAST 30.01 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SW TIGARD STREET (40 FEET WIDE); THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 64°11'08" WEST 40.02 FEET TO THE WESTERLY LINE OF SAID VACATED SW LUCAS AVENUE; THENCE ALONG SAID WESTERLY LINE SOUTH 24°14'09" WEST 30.00 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 42°51'27" WEST 75.69 FEET; THENCE SOUTH 18°44'41" WEST 335.33 FEET; THENCE SOUTH 63°51'27" WEST 42.34 FEET; THENCE NORTH 71°01'47" WEST 273.06 FEET; THENCE SOUTH 17°46'11" WEST 32.19 FEET TO THE **POINT OF BEGINNING**.

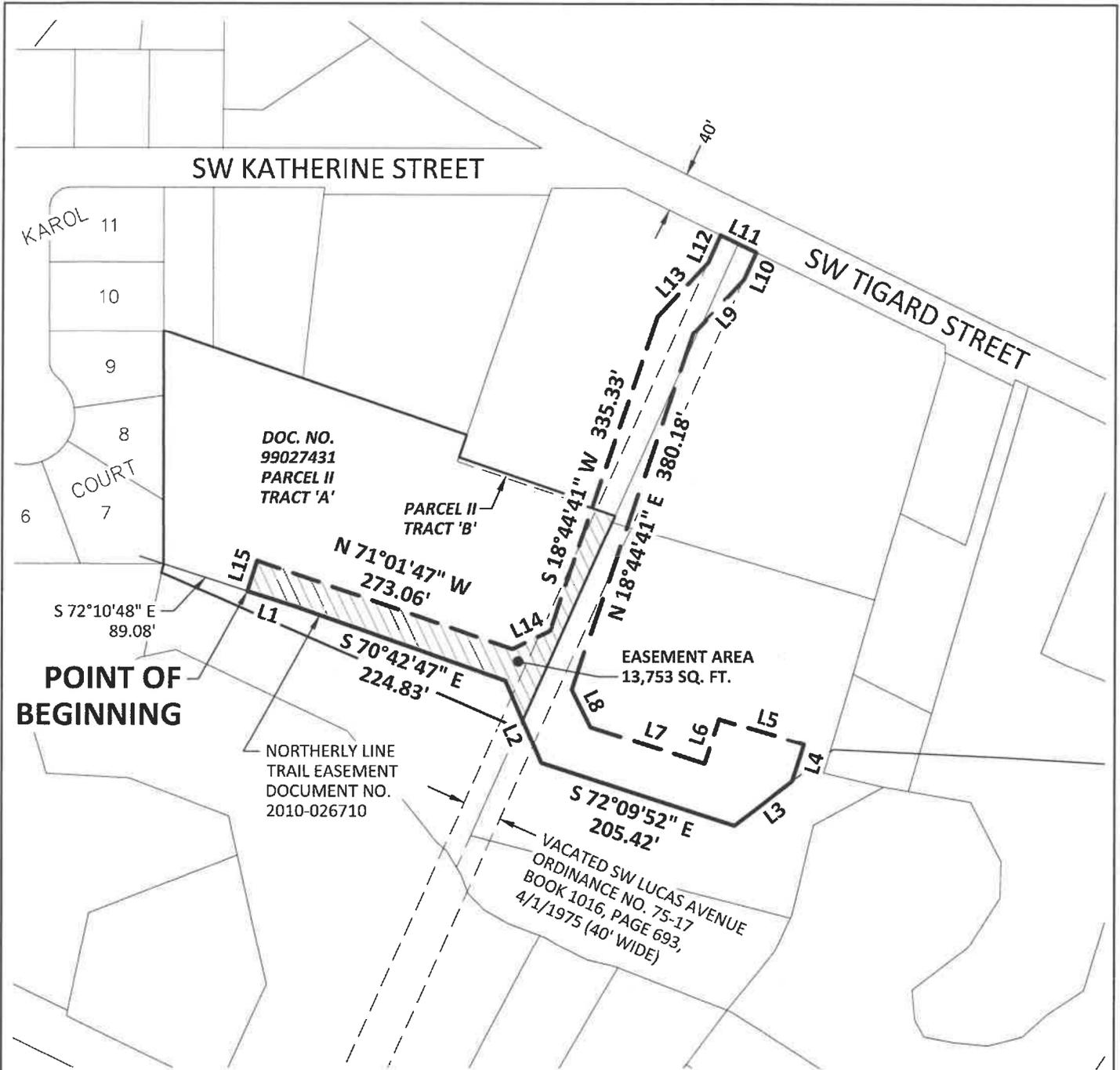
CONTAINING 13,753 SQUARE FEET OR 0.316 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

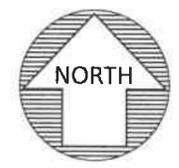


EXPIRES 12/31/21



LINE TABLE

LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L1	S 72°10'48" E	51.08'	L9	N 42°51'27" E	74.98'
L2	S 23°45'49" E	90.79'	L10	N 24°14'09" E	30.01'
L3	N 52°21'11" E	73.13'	L11	N 64°11'08" W	40.02'
L4	N 17°54'34" E	39.26'	L12	S 24°14'09" W	30.00'
L5	N 73°56'53" W	89.62'	L13	S 42°51'27" W	75.69'
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L7	N 72°09'52" W	121.26'	L15	S 17°46'11" W	32.19'
L8	N 26°42'36" W	42.09'			



SCALE: 1" = 150'



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EXHIBIT MAP W-TL-302-TCE TEMPORARY CONSTRUCTION EASEMENT NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M. CITY OF TIGARD / WASHINGTON COUNTY / OREGON	DATE:	28 JULY 2020
	DRAWN BY:	JBJ
	CHECKED BY:	JRD
	PROJECT NO.	1500087
	SHEET:	Page 4 of 29

TL 304

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

A PORTION OF THAT PARCEL OF LAND DESCRIBED AS PARCEL IV IN SPECIAL WARRANTY DEED STATUTORY FORM TO TIGARD INDUSTRIAL LLC, AN OREGON LIMITED LIABILITY COMPANY IN DOCUMENT NUMBER 99027431, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, LYING WITHIN THE HEREINAFTER DESCRIBED TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY LINE OF THAT PARCEL OF LAND DESCRIBED IN TRAIL AND GREENWAY EASEMENT TO METRO, AN OREGON MUNICIPAL CORPORATION IN DOCUMENT NUMBER 2010-026710, WASHINGTON COUNTY DEED RECORDS, SAID POINT BEING SOUTH 72°10'48" EAST 89.08 FEET FROM THE SOUTHEAST CORNER OF LOT 7 OF KAROL COURT, WASHINGTON COUNTY PLAT RECORDS; THENCE ALONG SAID NORTHERLY LINE SOUTH 72°10'48" EAST 51.08 FEET; THENCE SOUTH 70°42'47" EAST 224.83 FEET; THENCE SOUTH 23°45'49" EAST, 90.79 FEET; THENCE SOUTH 72°09'52" EAST 205.42 FEET; THENCE NORTH 52°21'11" EAST 73.13 FEET; THENCE LEAVING SAID NORTHERLY LINE NORTH 17°54'34" EAST 39.26 FEET; THENCE NORTH 73°56'53" WEST 89.62 FEET; THENCE SOUTH 17°50'08" WEST 46.73 FEET; THENCE NORTH 72°09'52" WEST 121.26 FEET; THENCE NORTH 26°42'36" WEST 42.09 FEET; THENCE NORTH 18°44'41" EAST 380.18 FEET; THENCE NORTH 42°51'27" EAST 74.98 FEET TO THE EASTERLY LINE OF VACATED SW LUCAS AVENUE (40 FEET WIDE); THENCE ALONG SAID EASTERLY LINE NORTH 24°14'09" EAST 30.01 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SW TIGARD STREET (40 FEET WIDE); THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 64°11'08" WEST 40.02 FEET TO THE WESTERLY LINE OF SAID VACATED SW LUCAS AVENUE; THENCE ALONG SAID WESTERLY LINE SOUTH 24°14'09" WEST 30.00 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 42°51'27" WEST 75.69 FEET; THENCE SOUTH 18°44'41" WEST 335.33 FEET; THENCE SOUTH 63°51'27" WEST 42.34 FEET; THENCE NORTH 71°01'47" WEST 273.06 FEET; THENCE SOUTH 17°46'11" WEST 32.19 FEET TO THE **POINT OF BEGINNING**:

CONTAINING 22,093 SQUARE FEET OR 0.507 ACRES, MORE OR LESS.

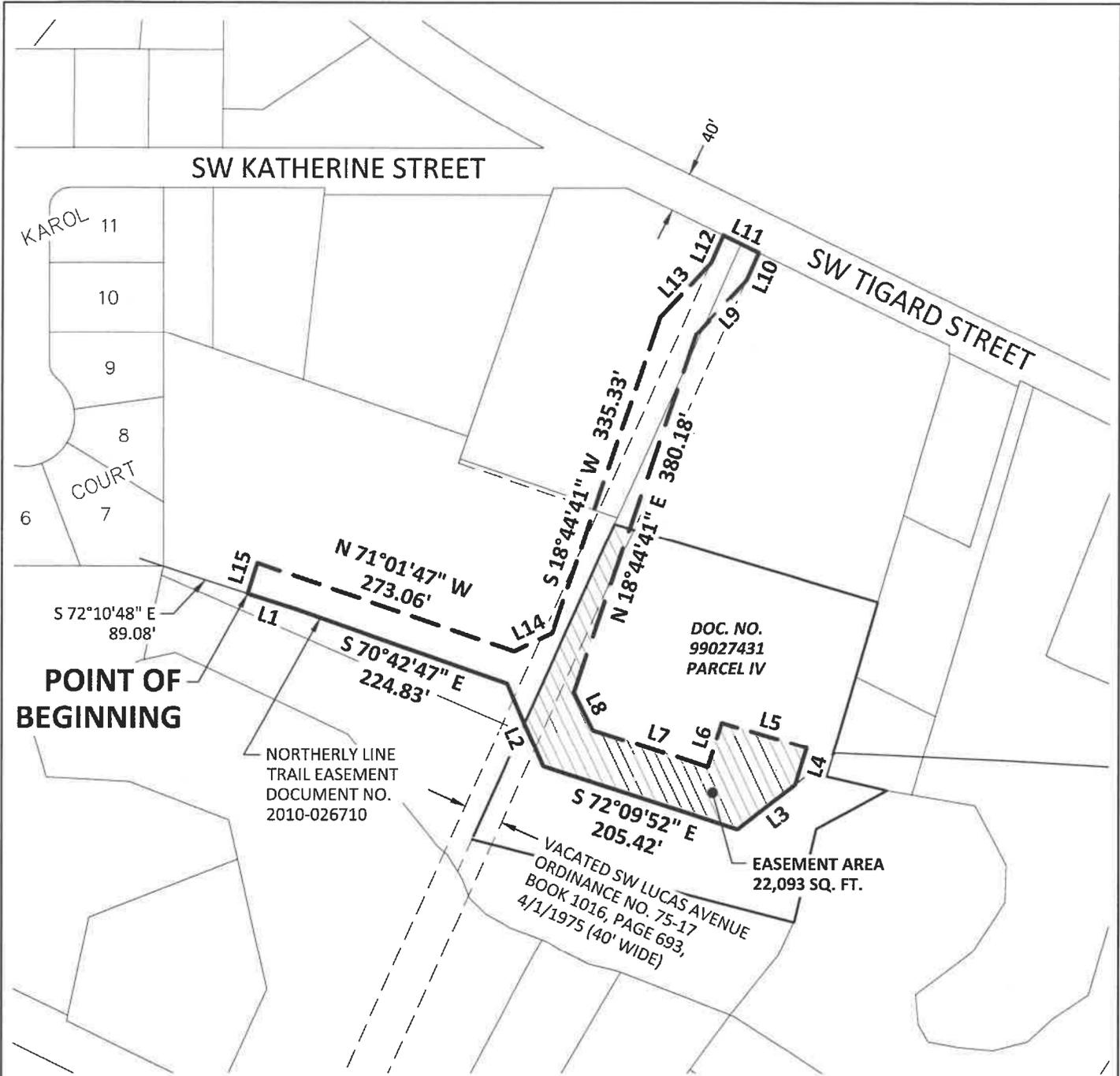
THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21



LINE TABLE

LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L1	S 72°10'48" E	51.08'	L9	N 42°51'27" E	74.98'
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L8	N 26°42'36" W	42.09'			



SCALE: 1" = 150'



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EXHIBIT MAP W-TL-304-TCE TEMPORARY CONSTRUCTION EASEMENT NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M. CITY OF TIGARD / WASHINGTON COUNTY / OREGON	DATE:	28 JULY 2020
	DRAWN BY:	JB
	CHECKED BY:	JRD
	PROJECT NO.	1500087
	SHEET:	Page 6 of 29

TL 303

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

A PORTION OF THAT PARCEL OF LAND DESCRIBED IN WARRANTY DEED STATUTORY FORM TO ANDREWS MANAGEMENT LTD., AN OREGON LIMITED LIABILITY COMPANY IN DOCUMENT NUMBER 2008-034373, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, LYING WITHIN THE HEREINAFTER DESCRIBED TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY LINE OF THAT PARCEL OF LAND DESCRIBED IN TRAIL AND GREENWAY EASEMENT TO METRO, AN OREGON MUNICIPAL CORPORATION IN DOCUMENT NUMBER 2010-026710, WASHINGTON COUNTY DEED RECORDS, SAID POINT BEING SOUTH 72°10'48" EAST 89.08 FEET FROM THE SOUTHEAST CORNER OF LOT 7 OF KAROL COURT, WASHINGTON COUNTY PLAT RECORDS; THENCE ALONG SAID NORTHERLY LINE SOUTH 72°10'48" EAST 51.08 FEET; THENCE SOUTH 70°42'47" EAST 224.83 FEET; THENCE SOUTH 23°45'49" EAST, 90.79 FEET; THENCE SOUTH 72°09'52" EAST 205.42 FEET; THENCE NORTH 52°21'11" EAST 73.13 FEET; THENCE LEAVING SAID NORTHERLY LINE NORTH 17°54'34" EAST 39.26 FEET; THENCE NORTH 73°56'53" WEST 89.62 FEET; THENCE SOUTH 17°50'08" WEST 46.73 FEET; THENCE NORTH 72°09'52" WEST 121.26 FEET; THENCE NORTH 26°42'36" WEST 42.09 FEET; THENCE NORTH 18°44'41" EAST 380.18 FEET; THENCE NORTH 42°51'27" EAST 74.98 FEET TO THE EASTERLY LINE OF VACATED SW LUCAS AVENUE (40 FEET WIDE); THENCE ALONG SAID EASTERLY LINE NORTH 24°14'09" EAST 30.01 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SW TIGARD STREET (40 FEET WIDE); THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 64°11'08" WEST 40.02 FEET TO THE WESTERLY LINE OF SAID VACATED SW LUCAS AVENUE; THENCE ALONG SAID WESTERLY LINE SOUTH 24°14'09" WEST 30.00 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 42°51'27" WEST 75.69 FEET; THENCE SOUTH 18°44'41" WEST 335.33 FEET; THENCE SOUTH 63°51'27" WEST 42.34 FEET; THENCE NORTH 71°01'47" WEST 273.06 FEET; THENCE SOUTH 17°46'11" WEST 32.19 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 2,513 SQUARE FEET OR 0.058 ACRES, MORE OR LESS.

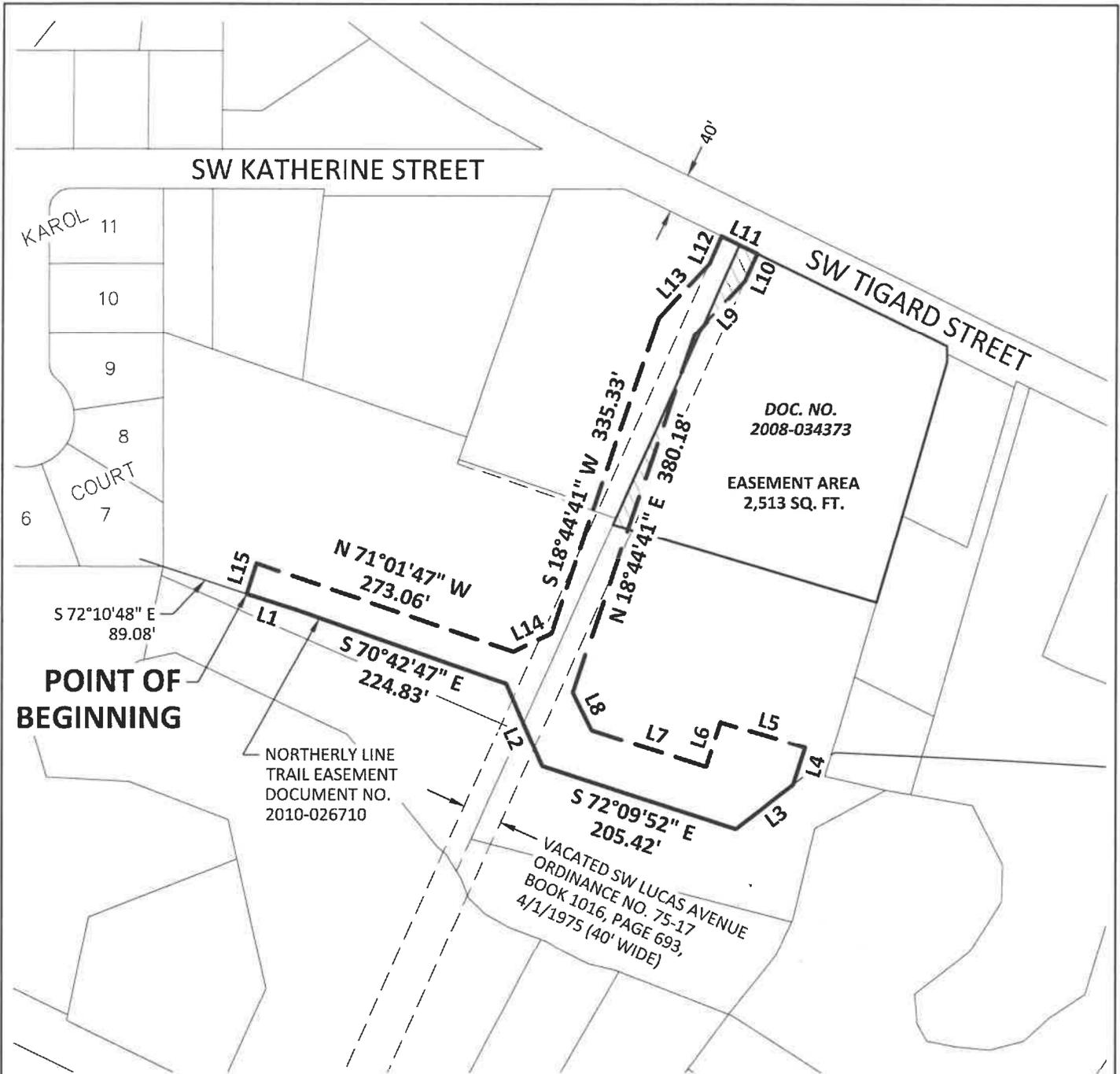
THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

John R. Davis
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21



LINE TABLE

LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L1	S 72°10'48" E	51.08'	L9	N 42°51'27" E	74.98'
L2	S 23°45'49" E	90.79'	L10	N 24°14'09" E	30.01'
L3	N 52°21'11" E	73.13'	L11	N 64°11'08" W	40.02'
L4	N 17°54'34" E	39.26'	L12	S 24°14'09" W	30.00'
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L7	N 72°09'52" W	121.26'	L15	S 17°46'11" W	32.19'
L8	N 26°42'36" W	42.09'			



SCALE: 1" = 150'



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EXHIBIT MAP W-TL-303-TCE TEMPORARY CONSTRUCTION EASEMENT NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M. CITY OF TIGARD / WASHINGTON COUNTY / OREGON	DATE:	28 JULY 2020
	DRAWN BY:	JBj
	CHECKED BY:	JRD
	PROJECT NO.	1500087
	SHEET:	Page 8 of 29

TL 5100

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

JULY 28, 2020

LEGAL DESCRIPTION

A PARCEL OF LAND BEING A PORTION OF TRACT A, PARTITION PLAT NUMBER 2013-021, WASHINGTON COUNTY PLAT RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEASTERLY CORNER OF SAID TRACT A; THENCE SOUTH 51°59'30" WEST 106.88 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE NORTH 56°11'00" WEST 43.23 FEET TO THE WESTERLY LINE OF SAID TRACT A; THENCE ALONG SAID WESTERLY LINE NORTH 16°37'00" EAST 3.66 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 56°11'00" EAST 24.42 FEET; THENCE NORTH 33°49'00" EAST 27.38 FEET; THENCE SOUTH 56°11'00" EAST 3.64 FEET; THENCE SOUTH 09°55'26" EAST 9.20 FEET; THENCE SOUTH 33°49'00" WEST 20.74 FEET; THENCE SOUTH 56°11'00" EAST 5.53 FEET; THENCE SOUTH 78°33'53" EAST 5.43 FEET; THENCE SOUTH 40°37'30" WEST 5.61 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 411 SQUARE FEET OR 0.09 ACRES (MORE OR LESS).

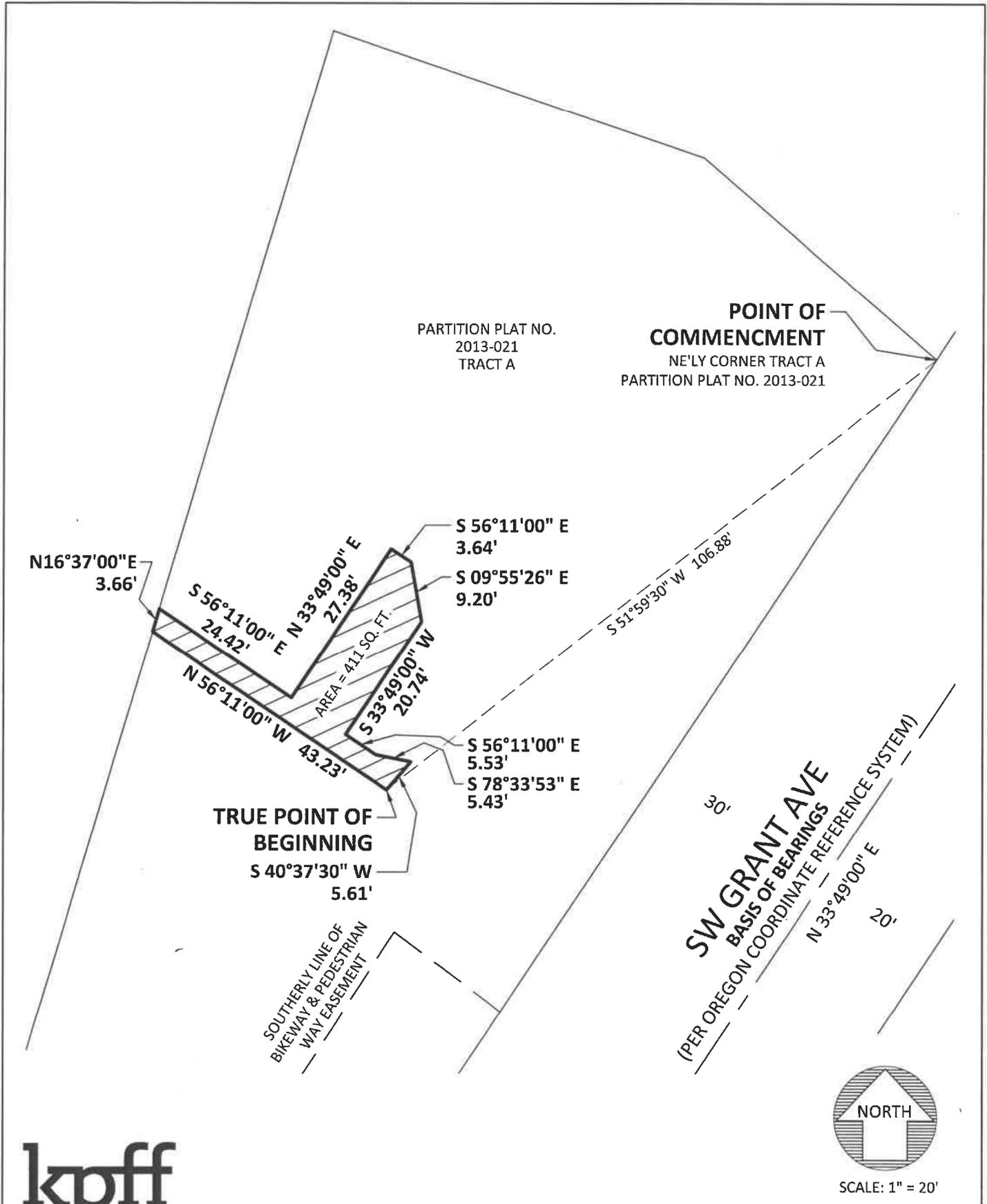
THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE PARCEL OF LAND IS SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21



PARTITION PLAT NO.
2013-021
TRACT A

POINT OF COMMENCEMENT
NE'LY CORNER TRACT A
PARTITION PLAT NO. 2013-021

N16°37'00"E
3.66'

S 56°11'00" E 24.42'
N 33°49'00" E 27.38'

S 56°11'00" E 3.64'
S 09°55'26" E 9.20'

S 51°59'30" W 106.88'

N 56°11'00" W 43.23'

S 33°49'00" W 20.74'

S 56°11'00" E 5.53'
S 78°33'53" E 5.43'

TRUE POINT OF BEGINNING
S 40°37'30" W 5.61'

SOUTHERLY LINE OF
BIKEWAY & PEDESTRIAN
WAY EASEMENT

30'
20'
SW GRANT AVE
BASIS OF BEARINGS
(PER OREGON COORDINATE REFERENCE SYSTEM)
N 33°49'00" E



SCALE: 1" = 20'

kpff

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EXHIBIT MAP
W-TL-5100-TCE
TEMPORARY CONSTRUCTION EASEMENT
NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M.
CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
SHEET:	Page 10 of 29

TL 5100

EXHIBIT A

BIKEWAY AND PEDESTRIAN WAY EASEMENT

JOB NO. 1500087

JULY 28, 2020

LEGAL DESCRIPTION

TWO PARCELS OF LAND BEING PORTIONS OF TRACT A, PARTITION PLAT NUMBER 2013-021, WASHINGTON COUNTY PLAT RECORDS, LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

PARCEL 1:

COMMENCING AT THE NORTHEASTERLY CORNER OF SAID TRACT A; THENCE ALONG THE WESTERLY RIGHT-OF-WAY LINE OF SOUTHWEST GRANT AVENUE (50 FEET WIDE) SOUTH 33°49'00" WEST 120.05 FEET TO THE **TRUE POINT OF BEGINNING**, SAID POINT ALSO BEING THE SOUTHEASTERLY CORNER OF THAT TRACT OF LAND DESCRIBED IN BIKEWAY AND PEDESTRIAN WAY EASEMENT TO THE CITY OF TIGARD IN DOCUMENT NUMBER 2007-029573, WASHINGTON COUNTY DEED RECORDS; THENCE ALONG THE SOUTHERLY LINE OF SAID EASEMENT NORTH 53°14'19" WEST 20.29 FEET; THENCE SOUTH 32°49'52" WEST 26.87 FEET; THENCE LEAVING SAID SOUTHERLY LINE SOUTH 53°14'19" EAST 19.83 FEET TO SAID WESTERLY RIGHT-OF-WAY LINE; THENCE ALONG SAID WESTERLY RIGHT-OF-WAY LINE NORTH 33°49'00" EAST 26.84 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 538 SQUARE FEET OR 0.012 ACRES (MORE OR LESS).

PARCEL 2:

COMMENCING AT THE NORTHEASTERLY CORNER OF SAID TRACT A; THENCE SOUTH 51°59'30" WEST 106.88 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE NORTH 56°11'00" WEST 43.23 FEET TO THE WESTERLY LINE OF SAID TRACT A; THENCE ALONG SAID WESTERLY LINE SOUTH 16°37'00" WEST 38.21 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 56°11'00" EAST 26.11 FEET; THENCE NORTH 56°37'30" EAST 5.25 FEET; THENCE NORTH 40°37'30" EAST 31.89 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 1,288 SQUARE FEET OR 0.030 ACRES (MORE OR LESS).

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE PARCELS OF LAND ARE SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.

OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21

POINT OF COMMENCEMENT
 NE'LY CORNER TRACT A
 PARTITION PLAT NO. 2013-021

PARTITION PLAT NO.
 2013-021
 TRACT A

S 16°37'00" W 38.21'
 N 56°11'00" W 43.23'

PARCEL 2
 AREA = 1,288 SQ. FT.

S 56°11'00" E 26.11'
 N 56°37'30" E 5.25'

N 40°37'30" E 31.89'
 S 32°49'52" W 26.87'

PARCEL 1
 AREA = 538 SQ. FT.

S 53°14'19" E 19.83'
 N 33°49'00" E 26.84'

TRUE POINT OF BEGINNING
 PARCEL 2

TRUE POINT OF BEGINNING
 PARCEL 1

SW GRANT AVE
 BASIS OF BEARINGS
 (PER OREGON COORDINATE REFERENCE SYSTEM)
 N 33°49'00" E

SOUTHERLY LINE OF BIKEWAY &
 PEDESTRIAN WAY EASEMENT

S 51°59'30" W 106.88'

S 33°49'00" W 120.05'

30'

20'

N 03°00'00" E 21.82'

N 53°14'19" W 20.29'



SCALE: 1" = 20'



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EXHIBIT MAP
 W-TL-5100-BIKE-PED
 BIKEWAY & PEDESTRIAN WAY EASEMENT
 NW 1/4 SEC. 2 / T. 2 S. / R. 1 W. / W.M.
 CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
SHEET:	Page 13 of 29

TL 600

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

TEMPORARY CONSTRUCTION EASEMENT (PARCEL 1)

A STRIP OF LAND, VARIABLE IN WIDTH, BEING A PORTION OF THE CLEAN WATER SERVICES DURHAM FACILITY LOCATED IN THE NORTHWEST QUARTER OF SECTION 13, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SAID SECTION 13 AND SECTION 14; THENCE NORTH ALONG THE WESTERLY LINE OF SAID SECTION 13 NORTH 00°01'10" WEST 82.13 FEET; THENCE LEAVING SAID WESTERLY LINE NORTH 33°29'28" EAST 16.92 FEET; THENCE NORTH 04°03'08" WEST 132.85 FEET TO SAID WESTERLY LINE; THENCE NORTH ALONG SAID WESTERLY LINE NORTH 00°01'10" WEST 508.33 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SW 85TH AVENUE; THENCE EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 89°58'50" EAST 25.00 FEET TO THE EASTERLY LINE OF SAID RIGHT-OF-WAY; THENCE LEAVING SAID EASTERLY RIGHT-OF-WAY LINE SOUTH 00°01'10" EAST 261.32 FEET; THENCE SOUTH 17°45'49" EAST 26.25 FEET; THENCE SOUTH 00°01'10" EAST 163.98 FEET; THENCE SOUTH 04°03'08" EAST 213.29 FEET; THENCE SOUTH 00°01'10" EAST 50.58 FEET; THENCE SOUTH 89°58'50" WEST 39.56 FEET; THENCE SOUTH 00°22'47" EAST 23.39 FEET TO THE SOUTHERLY LINE OF SAID SECTION 13; THENCE ALONG SAID SOUTHERLY LINE SOUTH 89°34'36" WEST 8.59 FEET TO THE **POINT OF BEGINNING**.

EXCEPT THEREFROM THAT PORTION OF LAND LYING WITHIN THE BELOW DESCRIBED PARCEL 2.

PERMANENT BICYCLE/PEDESTRIAN EASEMENT (PARCEL 2)

A STRIP OF LAND, 30.00 FEET IN WIDTH, BEING A PORTION OF SAID CLEAN WATER SERVICES DURHAM FACILITY BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SAID SECTION 13 AND SECTION 14; THENCE ALONG THE WESTERLY LINE OF SAID SECTION 13 NORTH 00°01'10" WEST 70.10 FEET; THENCE LEAVING SAID WESTERLY LINE NORTH 30°53'04" EAST 14.00 FEET; THENCE NORTH 17°29'00" EAST 14.00 FEET; THENCE NORTH 04°03'08" WEST 91.87 FEET; THENCE NORTH 02°01'34" WEST 141.12 FEET TO SAID WESTERLY LINE OF SECTION 13; THENCE ALONG SAID WESTERLY LINE NORTH 00°01'10" WEST 79.44 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, A RADIAL LINE THROUGH SAID POINT BEARS SOUTH 38°18'15" EAST; THENCE LEAVING SAID WESTERLY LINE ALONG THE ARC OF A 54.64 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY THROUGH A CENTRAL ANGLE OF 52°01'36" (THE LONG CHORD OF WHICH BEARS NORTH 25°40'56" EAST 47.93 FEET) AN ARC DISTANCE OF 49.62 FEET TO A POINT OF NON-TANGENCY, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 89°40'08" EAST; THENCE SOUTH 90°00'00" EAST 9.21 FEET; THENCE SOUTH 00°01'10" EAST 122.10 FEET; THENCE SOUTH 02°01'34" EAST 140.06 FEET; THENCE SOUTH 04°03'08" EAST 97.04 FEET; THENCE SOUTH 17°29'00" WEST 23.23 FEET; THENCE SOUTH 30°53'04" WEST 47.33 FEET; THENCE SOUTH 11°37'07" WEST 17.65 FEET; THENCE SOUTH 02°03'31" WEST 11.79 FEET TO THE SOUTHERLY LINE OF SAID NORTHWEST QUARTER OF SECTION 13; THENCE WEST ALONG SAID SOUTHERLY LINE SOUTH 89°34'36" WEST 6.45 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 11,215 SQUARE FEET OR 0.258 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE STRIPS OF LAND ARE SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.



DOC. NO. 9605579

UNIFIED SEWERAGE AGENCY
OF WASHINGTON COUNTY
(CLEAN WATER SERVICES)

N 89°58'50" E
25.00'

SW 85TH AVENUE

DOC. NO. 8551
BOOK 1158, PAGE 415
UNIFIED SEWERAGE AGENCY
OF WASHINGTON COUNTY
(CLEAN WATER SERVICES)

N 00°01'10" W 508.33'

S 00°11'10" E 261.32'

S 17°45'49" E
26.25'

E 01°10'00" E
163.99'

S 00°10'00" S
163.99'

S 04°03'08" E
213.29'

E 01°10'00" E
50.58'

S 00°10'00" S
50.58'

N 04°03'08" W
132.85'

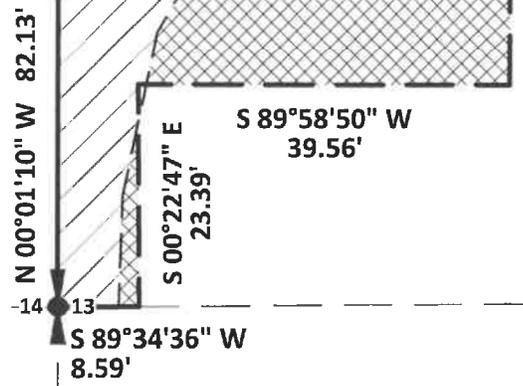
N 33°29'28" E
16.92'

N 00°01'10" W
82.13'

POINT OF BEGINNING
[QUARTER CORNER - SEC. 13 & SEC. 14]

SEE DETAIL 'A'

DETAIL 'A'
1" = 20'



PARCEL 1 TEMPORARY
CONSTRUCTION EASEMENT
11,215 SQ. FT.

NW QUARTER
SECTION 13

CLEAN WATER SERVICES
- DURHAM FACILITY

PARCEL 2 PERMANENT
BICYCLE/PEDESTRIAN
EASEMENT
12,013 SQ. FT.

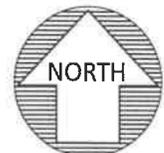
DOC. NO. 96080099

UNIFIED SEWERAGE AGENCY
OF WASHINGTON COUNTY
(CLEAN WATER SERVICES)

RAILROAD

NORTHERN

BURLINGTON



SCALE: 1" = 100'



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EXHIBIT MAP

D.P-TL-600-TCE

TEMPORARY CONSTRUCTION EASEMENT

NW 1/4 SEC. 13 / T. 2 S. / R. 1 W. / W.M.

CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
SHEET:	Page 16 of 29

TL 600

EXHIBIT A

BIKEWAY AND PEDESTRIAN WAY EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

A STRIP OF LAND 30.00 FEET IN WIDTH BEING A PORTION OF THE CLEAN WATER SERVICES DURHAM FACILITY LOCATED IN THE NORTHWEST QUARTER OF SECTION 13, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SAID SECTION 13 AND SECTION 14; THENCE ALONG THE WESTERLY LINE OF SAID SECTION 13 NORTH 00°01'10" WEST 70.10 FEET; THENCE LEAVING SAID WESTERLY LINE NORTH 30°53'04" EAST 14.00 FEET; THENCE NORTH 17°29'00" EAST 14.00 FEET; THENCE NORTH 04°03'08" WEST 91.87 FEET; THENCE NORTH 02°01'34" WEST 141.12 FEET TO SAID WESTERLY LINE OF SECTION 13; THENCE ALONG SAID WESTERLY LINE NORTH 00°01'10" WEST 79.44 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, A RADIAL LINE THROUGH SAID POINT BEARS SOUTH 38°18'15" EAST; THENCE LEAVING SAID WESTERLY LINE ALONG THE ARC OF A 54.64 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY THROUGH A CENTRAL ANGLE OF 52°01'36" (THE LONG CHORD OF WHICH BEARS NORTH 25°40'56" EAST 47.93 FEET) AN ARC DISTANCE OF 49.62 FEET TO A POINT OF NON-TANGENCY, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 89°40'08" EAST; THENCE SOUTH 90°00'00" EAST 9.21 FEET; THENCE SOUTH 00°01'10" EAST 122.10 FEET; THENCE SOUTH 02°01'34" EAST 140.06 FEET; THENCE SOUTH 04°03'08" EAST 97.04 FEET; THENCE SOUTH 17°29'00" WEST 23.23 FEET; THENCE SOUTH 30°53'04" WEST 47.33 FEET; THENCE SOUTH 11°37'07" WEST 17.65 FEET; THENCE SOUTH 02°03'31" WEST 11.79 FEET TO THE SOUTHERLY LINE OF SAID NORTHWEST QUARTER OF SECTION 13; THENCE WEST ALONG SAID SOUTHERLY LINE SOUTH 89°34'36" WEST 6.45 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 12,013 SQUARE FEET OR 0.276 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE STRIP OF LAND IS SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21

DOC. NO. 8551
BOOK 1158, PAGE 415

UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

L=49.62'
R=54.64'
Δ=52°01'36"
CHD=N25°40'56"E
47.93'

N89°40'08"E
(RAD)

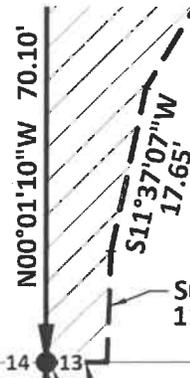
S 90°00'00" E
9.21'

S38°18'15"E
(RAD)

N 00°01'10" W
79.44'

S 00°01'10" E
122.10'

DETAIL 'A'
1" = 20'



S02°03'31"W
11.79'

S89°34'36"W
6.45'

POINT OF BEGINNING
[QUARTER CORNER - SEC. 13 & SEC. 14]

NW QUARTER
SECTION 13

CLEAN WATER SERVICES
- DURHAM FACILITY

RAILROAD

DOC. NO. 96080099

UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

EASEMENT AREA
12,013 SQ. FT.

N 02°01'34" W
141.12'

30'

S 02°01'34" E
140.06'

N 04°03'08" W
91.87'

S 04°03'08" E
97.04'

N 17°29'00" E
14.00'

S 17°29'00" W
23.23'

N 30°53'04" E
14.00'

S 30°53'04" W
47.33'

N 00°01'10" W
70.10'

POINT OF BEGINNING
[QUARTER CORNER - SEC. 13 & SEC. 14]

SEE DETAIL 'A'



SCALE: 1" = 80'



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EXHIBIT MAP

D.P-TL-600-BIKE-PED
BIKEWAY & PEDESTRIAN WAY EASEMENT
NW 1/4 SEC. 13 / T. 2 S. / R. 1 W. / W.M.
CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
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TL 100 NORTH

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

TEMPORARY CONSTRUCTION EASEMENT (TRACT 1 AND TRACT 2)

TWO TRACTS OF LAND BEING PORTIONS OF THAT PARCEL OF LAND DESCRIBED IN STATUTORY WARRANTY DEED TO THE UNIFIED SEWERAGE AGENCY (NOW KNOWN AS CLEAN WATER SERVICES) OF WASHINGTON COUNTY, IN DOCUMENT NUMBER 96080099, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHEAST QUARTER OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TRACT 1:

BEGINNING AT A POINT ON THE EASTERLY LINE OF SAID SECTION 14, SAID POINT BEARS NORTH 00°01'10" WEST 228.76 FEET FROM THE QUARTER CORNER BETWEEN SECTIONS 13 AND 14; THENCE NORTH ALONG SAID EASTERLY LINE NORTH 00°01'10" WEST 198.94 FEET TO THE SOUTHERLY LINE OF THAT PORTION OF LAND CONTAINED IN DOCUMENT NUMBER 8551, BOOK 1158, PAGE 415; THENCE WEST ALONG SAID SOUTHERLY LINE SOUTH 89°58'50" WEST 2.00 FEET; THENCE LEAVING SAID SOUTHERLY LINE SOUTH 00°01'10" EAST 170.57 FEET; THENCE SOUTH 04°03'08" EAST 28.44 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 370 SQUARE FEET OR 0.009 ACRES, MORE OR LESS.

TRACT 2:

BEGINNING AT SAID QUARTER CORNER; THENCE WEST ALONG THE SOUTHERLY LINE OF SAID SECTION 14 SOUTH 89°45'29" WEST 46.24 FEET; THENCE LEAVING SAID SOUTHERLY LINE NORTH 00°02'43" WEST 12.47 FEET; THENCE NORTH 33°29'28" EAST 83.76 FEET TO SAID EASTERLY LINE; THENCE SOUTH ALONG SAID EASTERLY LINE SOUTH 00°01'10" EAST 82.13 FEET TO THE **POINT OF BEGINNING**.

EXCEPT THEREFROM THAT PORTION OF LAND LYING WITHIN THE BELOW DESCRIBED TRACT 3.

PERMANENT BICYCLE/PEDESTRIAN EASEMENT (TRACT 3)

A TRACT OF LAND BEING A PORTION OF SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT SAID QUARTER CORNER; THENCE ALONG SAID EASTERLY LINE NORTH 00°01'10" WEST 70.10 FEET; THENCE LEAVING SAID EASTERLY LINE SOUTH 38°56'31" WEST 5.01 FEET TO THE BEGINNING OF A TANGENT CURVE; THENCE ALONG THE ARC OF A 90.00 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY THROUGH A CENTRAL ANGLE OF 36°53'00" (THE LONG CHORD OF WHICH BEARS SOUTH 20°30'01" WEST 56.94 FEET) AN ARC DISTANCE OF 57.94 FEET TO A POINT OF TANGENCY; THENCE SOUTH 02°03'31" WEST 12.98 FEET TO SAID SOUTHERLY LINE; THENCE ALONG SAID SOUTHERLY LINE NORTH 89°45'29" EAST 23.58 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 1,003 SQUARE FEET OR 0.023 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE TRACTS OF LAND ARE SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21

SW 85TH AVENUE

DETAIL 'A'
1" = 30'

S 89°58'50" W
2.00'

DOC. NO. 8551
BOOK 1158, PAGE 415
UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

TRACT 1
TEMPORARY
CONSTRUCTION
EASEMENT
370 SQ. FT.

SEE DETAIL 'A'

DOC. NO. 96080099
UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

TOTAL (TRACT 1 + TRACT 2)
TEMPORARY CONSTRUCTION
EASEMENT AREA
1,373 SQ. FT.

TRACT 2
TEMPORARY
CONSTRUCTION
EASEMENT
1,003 SQ. FT.

TRACT 3
PERMANENT
BICYCLE/
PEDESTRIAN
EASEMENT
1,184 SQ. FT.

NW QUARTER
SECTION 13
CLEAN WATER SERVICES
- DURHAM FACILITY

N 00°02'43" W
12.47'

N00°01'10"W
228.76'
N33°29'28"E
83.76'

S 00°01'10" E
82.13'

S 89°45'29" W
46.24'

POINT OF BEGINNING
TRACT 2
[QUARTER CORNER -
SEC. 13 & SEC. 14]

NORTHERN
RAILROAD
BURLINGTON

S 00°01'10" E 170.57'
N 00°01'10" W 198.94'

S 04°03'08" E
28.44'

POINT OF BEGINNING
TRACT 1
[QUARTER CORNER -
SEC. 13 & SEC. 14]



SCALE: 1" = 120'



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EXHIBIT MAP D.P-TL-100-NORTH-TCE TEMPORARY CONSTRUCTION EASEMENT NE 1/4 AND SE 1/4 SEC. 14 / T. 2 S. / R. 1 W. / W.M. CITY OF TIGARD / WASHINGTON COUNTY / OREGON	DATE: 28 JULY 2020
	DRAWN BY: CMR
	CHECKED BY: JRD
	PROJECT NO. 1500087
	SHEET: Page 21 of 29

TL 100 NORTH

EXHIBIT A

BIKEWAY AND PEDESTRIAN WAY EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

A TRACT OF LAND BEING A PORTION OF THAT PARCEL OF LAND DESCRIBED IN STATUTORY WARRANTY DEED TO THE UNIFIED SEWERAGE AGENCY (NOW KNOWN AS CLEAN WATER SERVICES) OF WASHINGTON COUNTY, IN DOCUMENT NUMBER 96080099, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE NORTHEAST QUARTER OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SECTION 13 AND SAID SECTION 14; THENCE ALONG THE WESTERLY LINE OF SAID SECTION 13 NORTH 00°01'10" WEST 70.10 FEET; THENCE LEAVING SAID WESTERLY LINE SOUTH 38°56'31" WEST 5.01 FEET TO THE BEGINNING OF A TANGENT CURVE; THENCE ALONG THE ARC OF A 90.00 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY THROUGH A CENTRAL ANGLE OF 36°53'00" (THE LONG CHORD OF WHICH BEARS SOUTH 20°30'01" WEST 56.94 FEET) AN ARC DISTANCE OF 57.94 FEET TO A POINT OF TANGENCY; THENCE SOUTH 02°03'31" WEST 12.98 FEET TO THE SOUTHERLY LINE OF SAID NORTHEAST QUARTER OF SECTION 14; THENCE ALONG SAID SOUTHERLY LINE NORTH 89°45'29" EAST 23.58 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 1,184 SQUARE FEET OR 0.027 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE TRACT OF LAND IS SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

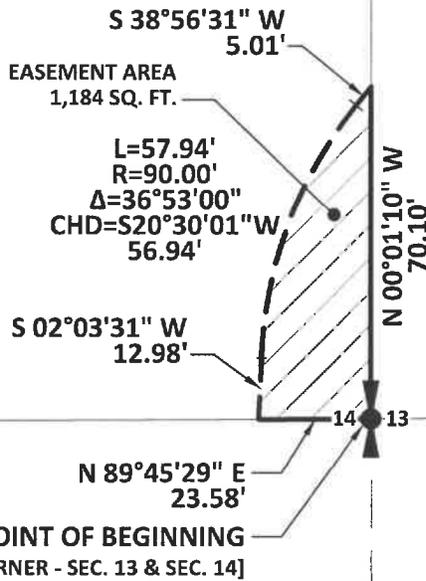
EXPIRES 12/31/21

DOC. NO. 96080099

UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

NW QUARTER
SECTION 13

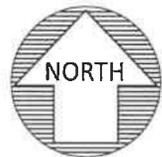
CLEAN WATER SERVICES
- DURHAM FACILITY



RAILROAD

NORTHERN

BURLINGTON



SCALE: 1" = 40'



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EXHIBIT MAP
D.P-TL-100-NORTH-BIKE-PED
BIKEWAY & PEDESTRIAN WAY EASEMENT
NE 1/4 SEC. 14 / T. 2 S. / R. 1 W. / W.M.
CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
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TL 100 SOUTH

EXHIBIT A

TEMPORARY CONSTRUCTION EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

TEMPORARY CONSTRUCTION EASEMENT (PARCEL 1)

A STRIP OF LAND, VARIABLE IN WIDTH, BEING A PORTION OF THAT PARCEL OF LAND DESCRIBED IN STATUTORY WARRANTY DEED TO THE UNIFIED SEWERAGE AGENCY (NOW KNOWN AS CLEAN WATER SERVICES) OF WASHINGTON COUNTY, IN DOCUMENT NUMBER 96080099, WASHINGTON COUNTY DEED RECORDS, LOCATED IN THE SOUTHEAST QUARTER OF SECTION 14, AND THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, CITY OF TIGARD, WASHINGTON COUNTY, OREGON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SAID SECTIONS 13 AND 14; THENCE WEST ALONG THE NORTHERLY LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 14 SOUTH 89°45'29" WEST 46.24 FEET; THENCE LEAVING SAID NORTHERLY LINE SOUTH 00°02'43" EAST 264.43 FEET; THENCE SOUTH 08°39'08" WEST 18.98 FEET; THENCE SOUTH 00°09'48" EAST 606.78 FEET; THENCE SOUTH 43°15'09" WEST 46.57 FEET; THENCE SOUTH 00°10'20" EAST 37.50 FEET; THENCE SOUTH 50°19'27" EAST 30.10 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 66°33'40" WEST; THENCE ALONG THE ARC OF A 54.49 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY THROUGH A CENTRAL ANGLE OF 64°33'58' (THE LONG CHORD OF WHICH BEARS NORTH 55°43'19" EAST 58.21 FEET) AN ARC DISTANCE OF 61.40 FEET TO A POINT OF NON-TANGENCY, SAID POINT BEING A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN RAILROAD, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 01°59'42" WEST; THENCE NORTH ALONG SAID WESTERLY RIGHT-OF-WAY LINE NORTH 00°08'56" WEST 483.34 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 88°30'57" WEST; THENCE ALONG THE ARC OF A 1462.88 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY THROUGH A CENTRAL ANGLE OF 11°25'39" (THE LONG CHORD OF WHICH BEARS NORTH 07°11'52" EAST 291.28 FEET) AN ARC DISTANCE OF 291.77 FEET TO A POINT OF NON-TANGENCY, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 77°05'19" WEST; THENCE LEAVING SAID WESTERLY RIGHT-OF-WAY LINE NORTH 77°04'50" WEST 18.29 FEET; THENCE NORTH 00°22'47" WEST 171.66 FEET TO THE SOUTHERLY LINE OF THE NORTHWEST QUARTER OF SAID SECTION 13; THENCE ALONG SAID SOUTHERLY LINE SOUTH 89°34'36" WEST 8.59 FEET TO THE **POINT OF BEGINNING**.

EXCEPT THEREFROM THAT PORTION OF LAND LYING WITHIN THE BELOW DESCRIBED PARCEL 2.

PERMANENT BICYCLE/PEDESTRIAN EASEMENT (PARCEL 2)

A STRIP OF LAND, VARIABLE IN WIDTH, BEING A PORTION OF SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE QUARTER CORNER BETWEEN SAID SECTIONS 13 AND 14; THENCE ALONG THE NORTHERLY LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 14 SOUTH 89°45'29" WEST 23.58 FEET; THENCE LEAVING SAID NORTHERLY LINE SOUTH 00°46'31" EAST 42.16 FEET; THENCE SOUTH 01°53'15" EAST 40.14 FEET; THENCE SOUTH 02°09'02" WEST 64.39 FEET; THENCE SOUTH 08°13'13" EAST 32.40 FEET; THENCE SOUTH 04°58'10" EAST 28.26 FEET; THENCE SOUTH 08°39'08" WEST 79.11 FEET; THENCE NORTH 81°20'52" WEST 10.00 FEET; THENCE SOUTH 08°39'08" WEST 40.00 FEET; THENCE SOUTH 81°20'52" EAST 10.00 FEET; THENCE SOUTH 08°39'08"

WEST 90.22 FEET; THENCE SOUTH 00°09'48" EAST 228.05 FEET; THENCE SOUTH 05°24'03" EAST 54.77 FEET; THENCE SOUTH 00°09'48" EAST 173.16 FEET TO THE BEGINNING OF A TANGENT CURVE; THENCE ALONG THE ARC OF A 60.00 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY THROUGH A CENTRAL ANGLE OF 51°30'06" (THE LONG CHORD OF WHICH BEARS SOUTH 25°35'15" WEST 52.13 FEET) AN ARC DISTANCE OF 53.93 FEET TO A POINT OF REVERSE CURVATURE, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 38°39'42" WEST; THENCE ALONG THE ARC OF A 35.00 FOOT RADIUS CURVE CONCAVE NORTHEASTERLY THROUGH A CENTRAL ANGLE OF 122°43'13" (THE LONG CHORD OF WHICH BEARS SOUTH 10°01'19" EAST 61.44 FEET) AN ARC DISTANCE OF 74.97 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 62°18'20" WEST; THENCE ALONG THE ARC OF A 54.49 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY THROUGH A CENTRAL ANGLE OF 55°46'30" (THE LONG CHORD OF WHICH BEARS NORTH 55°34'55" EAST 50.97 FEET) AN ARC DISTANCE OF 53.04 FEET TO A POINT OF NON-TANGENCY, A RADIAL LINE THROUGH SAID POINT BEARS NORTH 06°31'50" WEST; THENCE NORTH 00°09'48" WEST 253.33 FEET; THENCE NORTH 05°24'03" WEST 54.77 FEET; THENCE NORTH 00°09'48" WEST 224.37 FEET; THENCE NORTH 08°39'08" EAST 210.59 FEET; THENCE NORTH 04°58'10" WEST 32.70 FEET; THENCE NORTH 08°13'13" WEST 30.53 FEET; THENCE NORTH 02°09'02" EAST 62.73 FEET; THENCE NORTH 01°53'15" WEST 40.91 FEET; THENCE NORTH 00°44'32" WEST 41.61 FEET TO THE NORTHERLY LINE OF SAID SOUTHWEST QUARTER OF SECTION 13; THENCE ALONG SAID NORTHERLY LINE SOUTH 89°34'36" WEST 6.45 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 15,005 SQUARE FEET OR 0.345 ACRES, MORE OR LESS.

THE BASIS OF BEARINGS IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.

THE STRIPS OF LAND ARE SHOWN ON THE ATTACHED EXHIBIT MAP AND BY THIS REFERENCE MADE PART THEREOF.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.R.D.
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21

POINT OF BEGINNING
[QUARTER CORNER -
SEC. 13 & SEC. 14]

PARCEL 1 TEMPORARY
CONSTRUCTION EASEMENT
15,005 SQ. FT.

PARCEL 2 PERMANENT
BICYCLE/PEDESTRIAN
EASEMENT
31,155 SQ. FT.

S 08°39'08" W
18.98'

DOC. NO. 96080099

UNIFIED SEWERAGE AGENCY OF
WASHINGTON COUNTY
(CLEAN WATER SERVICES)

SEE DETAIL 'A'

S 00°02'43" E
264.43'

S 00°09'48" E 606.78'

N 00°08'56" W 483.34'

S 43°15'09" W
46.57'

S 00°10'20" E
37.50'

S 50°19'27" E
30.10'

N66°33'40"W
(RAD)

N01°59'42"W
(RAD)

L=61.40'
R=54.49'
Δ=64°33'58"
CHD=N55°43'19"E
58.21'

N 00°22'47" W
171.66'

N 77°04'50" W
18.29'

N 77°05'19" W (RAD)

L=291.77'
R=1462.88'
Δ=11°25'39"
CHD=N07°11'52"E
291.28'

N 88°30'57" W (RAD)

NORTHERN

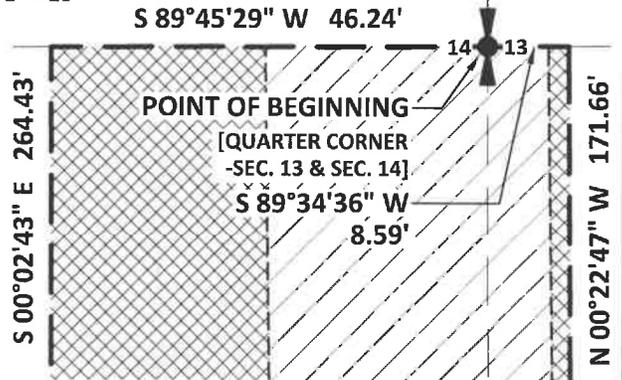
BURLINGTON

RAILROAD

50'

SW QUARTER
SECTION 13

DETAIL 'A'
1" = 20'



SCALE: 1" = 120'

kpff

111 SW Fifth Ave., Suite 2400
Portland, OR 97204
O: 503.227.3251
F: 503.274.4681
www.kpff.com

EXHIBIT MAP

D.P-TL-100-SOUTH-TCE
TEMPORARY CONSTRUCTION EASEMENT

NE 1/4 AND SE 1/4 SEC. 14 / T. 2 S. / R. 1 W. / W.M.
CITY OF TIGARD / WASHINGTON COUNTY / OREGON

DATE:	28 JULY 2020
DRAWN BY:	CMR
CHECKED BY:	JRD
PROJECT NO.	1500087
SHEET:	Page 26 of 29

TL 100 SOUTH

EXHIBIT A

BIKEWAY AND PEDESTRIAN WAY EASEMENT

JOB NO. 1500087

28 JULY 2020

LEGAL DESCRIPTION

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CONTAINING 31,155 SQUARE FEET OR 0.715 ACRES, MORE OR LESS.

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REGISTERED
PROFESSIONAL
LAND SURVEYOR

John R. Davis
OREGON
MAY 13, 2014
JOHN ROBERT DAVIS
88694

EXPIRES 12/31/21

SUMMARY OF EASEMENTS

Project Trail Segment	Property Owner	Tax Map	Tax Lot	Temporary Construction Easement	Bikeway and Pedestrian Way Easement
Woodard Park to Grant Avenue	Tigard Industrial LLC	2S102BA	301	Pages 1-2	
		2S102BA	302	Pages 3-4	
		2S102BA	304	Pages 5-6	
	Andrews Management LTD Tigard Industrial LLC	2S102BA	303	Pages 7-8	
	Elite Care Management Group LLC	2S102BA	5100	Pages 9-10	Pages 11-13
85th Avenue to Ki-a-Kuts Bridge	Clean Water Services	2S113B	600	Pages 14-16	Pages 17-18
		2S114AD	100 NORTH	Pages 19-21	Pages 22-23
		2S114DA	100 SOUTH	Pages 24-26	Pages 27-29

AIS-4348

7.

Workshop Meeting

Meeting Date: 10/20/2020

Length (in minutes): 45 Minutes

Agenda Title: Receive Briefing on the Water System Master Plan Update Project

Prepared For: John Goodrich, Public Works **Submitted By:** John Goodrich, Public Works

Item Type: Update, Discussion, Direct Staff **Meeting Type:** Council Workshop Mtg.

Public Hearing: No

Publication Date:

Information

ISSUE

Staff will provide a briefing to the council on the findings and recommendations of the draft Water System Master Plan update.

STAFF RECOMMENDATION / ACTION REQUEST

Briefing only. No action requested.

KEY FACTS AND INFORMATION SUMMARY

The City is completing its water master plan update for the next 20-year period. For the last three decades the city's water planning efforts were focused on developing a primary supply to deliver water to the Tigard community. The last master plan was adopted in May 2010 and was the framework for the Lake Oswego-Tigard Joint Water Supply System. An addendum was added to the Plan in June 2014 to provide valuable water supply information for the River Terrace development in the western portion of the city. We are excited that this new master planning effort will focus on ensuring that the new water supply system is able to distribute water throughout the service area to meet current and future customer demand.

The purpose of this master plan update is to meet Oregon State drinking water requirements (ORS 333-061-0060) and improve the level of service to customers by reviewing performance criteria, resiliency and reliability, and prioritizing needs identified within the 20-year planning period. The water master plan :

- Summarizes components of the existing water distribution system;
- Analyzes water demand patterns within the service area;
- Evaluates the performance of the water system with respect to critical service standards;

- Identifies and prioritizes the improvements necessary to remedy system deficiencies and accommodate future growth.

Based on this analysis, the study will provide recommendations for specific projects for inclusion in the water utility Capital Improvement Program (CIP). These projects will ensure that the water system continues to provide safe and reliable service to the Tigard Water Service Area.

There is a large amount of information to provide within the water master planning project, and staff prepared the following schedule:

- Council Workshop – October 20, 2020 – Water Master Plan Overview
- Council Workshop – November 17, 2020 – Proposed Capital Improvement Projects with Findings and Recommendations
- Council Business Meeting - December 8, 2020 – Council Consideration to Adopt Water Master Plan

The Water Advisory Board (WAB) was briefed on Monday, August 31, 2020 in a special workshop to provide an overview of the water master planning update process. Updated information relating to the water master plan will be provided to the WAB members on Wednesday, October 14, 2020 during their regular meeting.

OTHER ALTERNATIVES

Not Applicable.

COUNCIL GOALS, POLICIES, APPROVED MASTER PLANS

Council approved and adopted the Water Master Plan in May 2010. An addendum was approved and adopted on June 2014 providing information related to River Terrace development.

DATES OF PREVIOUS COUNCIL CONSIDERATION

Council issued the task order to begin the water master plan update, including water distribution system hydraulic analysis on November 17, 2017.

Fiscal Impact

Fiscal Information:

Water Capital Improvement Project #96048 budgeted \$488,000. Project awarded to Murray Smith & Associates to conduct this comprehensive water system study in November 2017.

Attachments

Water Master Plan Presentation

C I T Y O F T I G A R D

Respect and Care | Do the Right Thing | Get it Done



Water Master Plan Workshop

Tigard City Council - Workshop

October 20, 2020

What is a Master Plan?

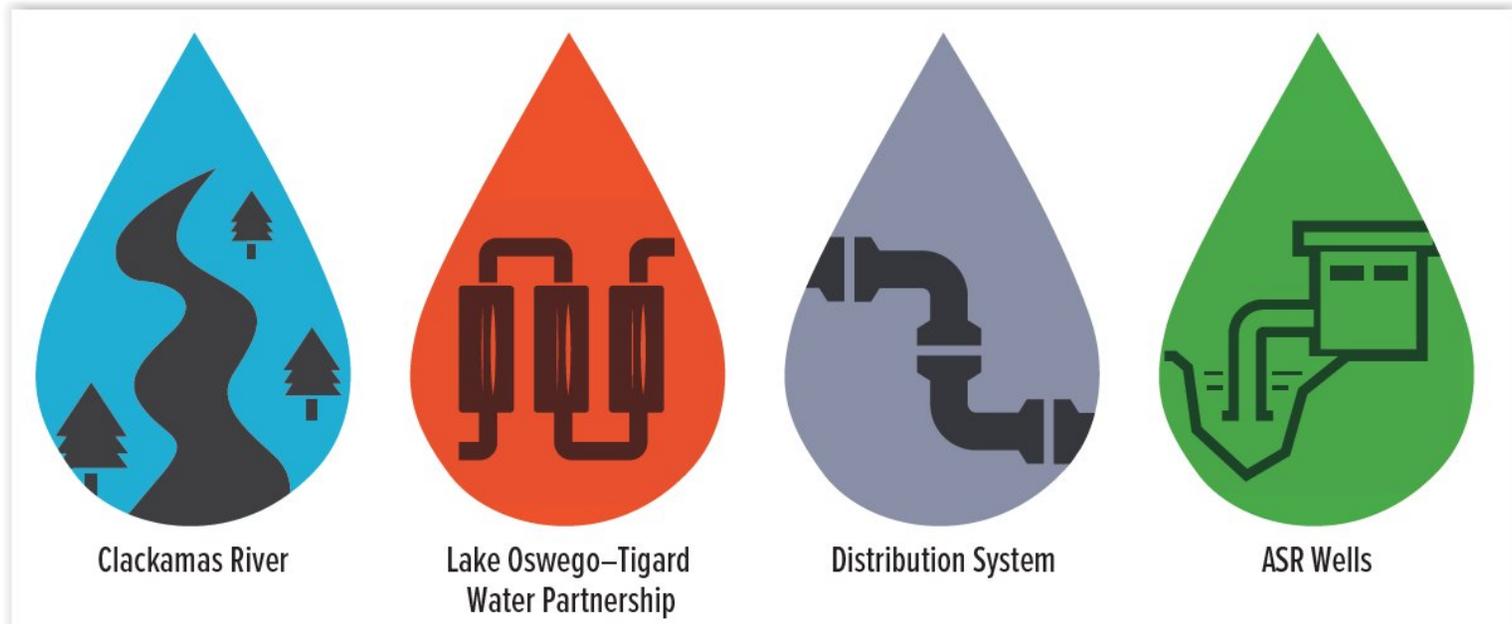
Asks three primary questions:

- ▶ What do we have?
- ▶ What do we want?
- ▶ How will we get there?

CITY OF TIGARD

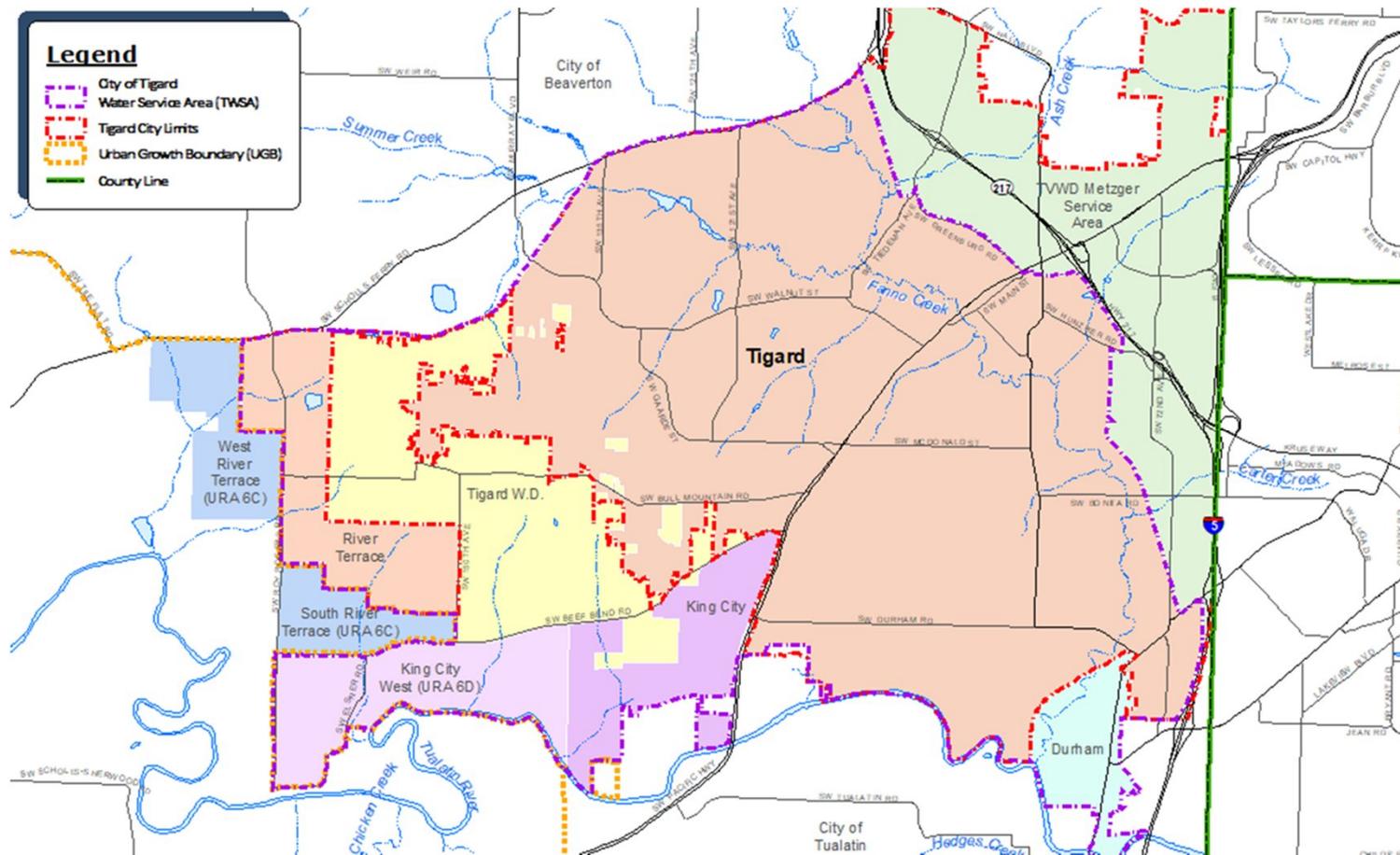
Our System

Delivers clean, safe and reliable water to your tap.



CITY OF TIGARD

Service Area Overview



Water System Analysis

SUPPLY

Water supply analysis to determine what projects will be needed to meet future water demand.

TREATMENT

In partnership with Lake Oswego plan for needed improvements to the water treatment system.

DELIVERY

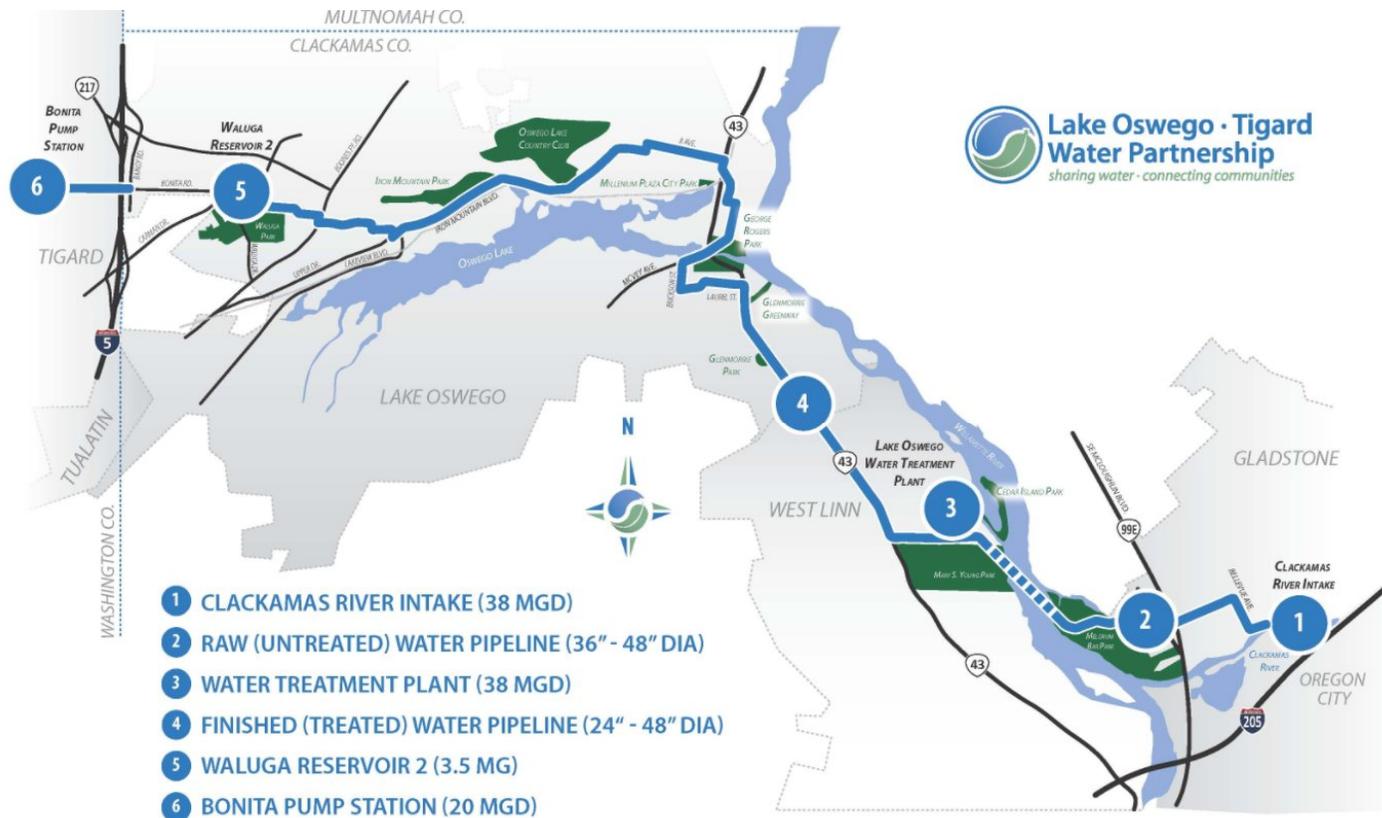
Distribution system analysis to determine how to best meet reliability and resiliency goals.

ASR WELLS

Identify future needs and ongoing maintenance tasks to protect our investment.

CITY OF TIGARD

Water Supply



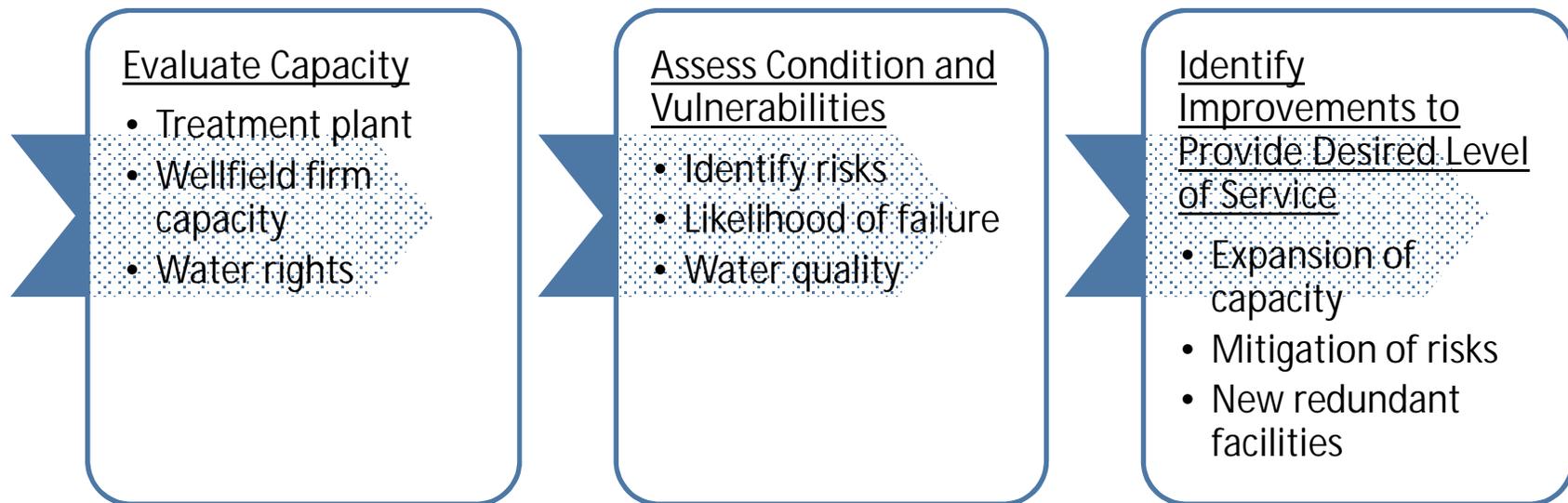
C I T Y O F T I G A R D

Projected Water Demand

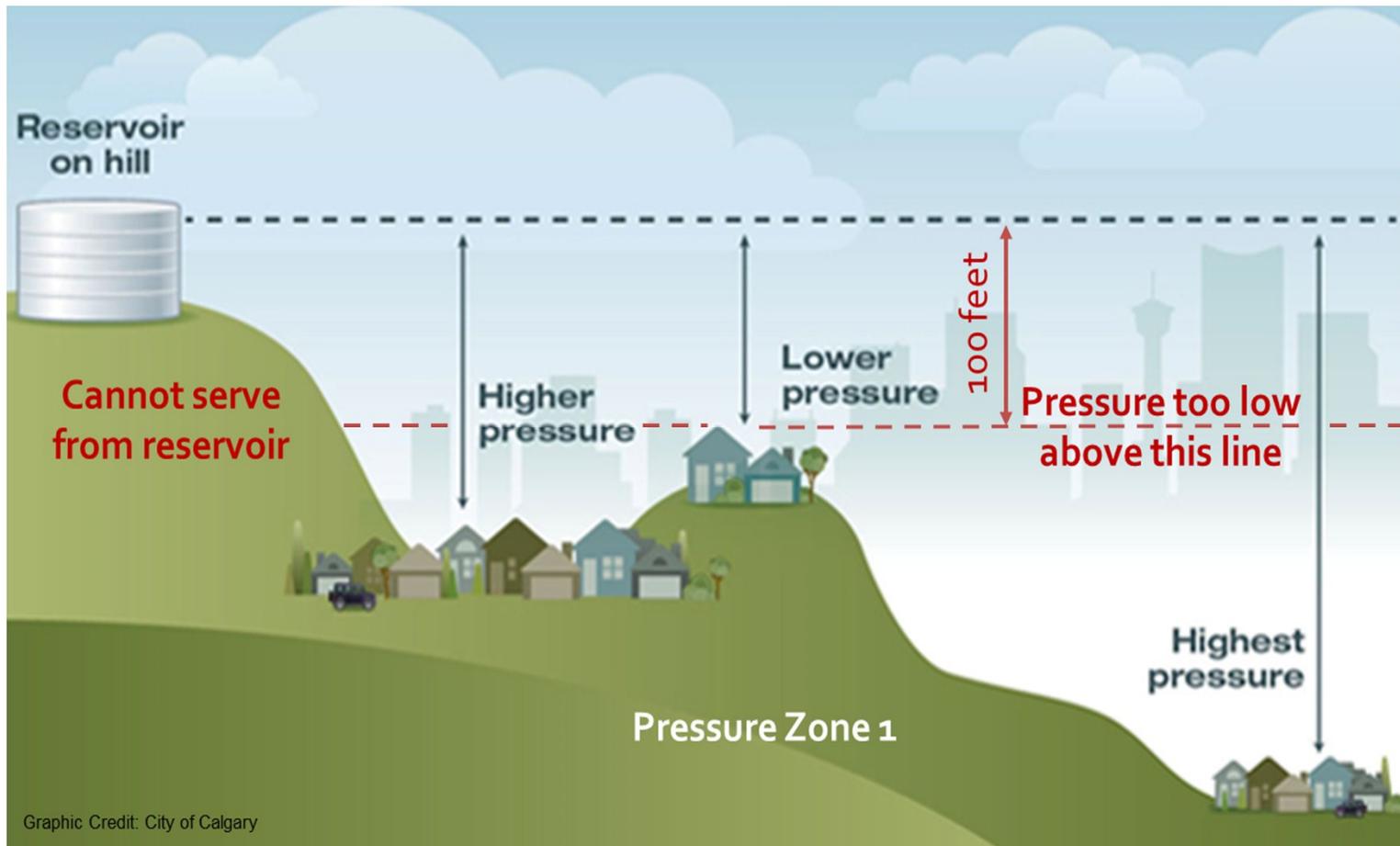
Combines residential, commercial, industrial, and irrigation uses.

Year	ADD (mgd)	MDD (mgd)
2019	5.77	10.48
2025	8.06	16.12
2030	8.78	17.56
2040	10.16	20.33
2050	11.19	22.38

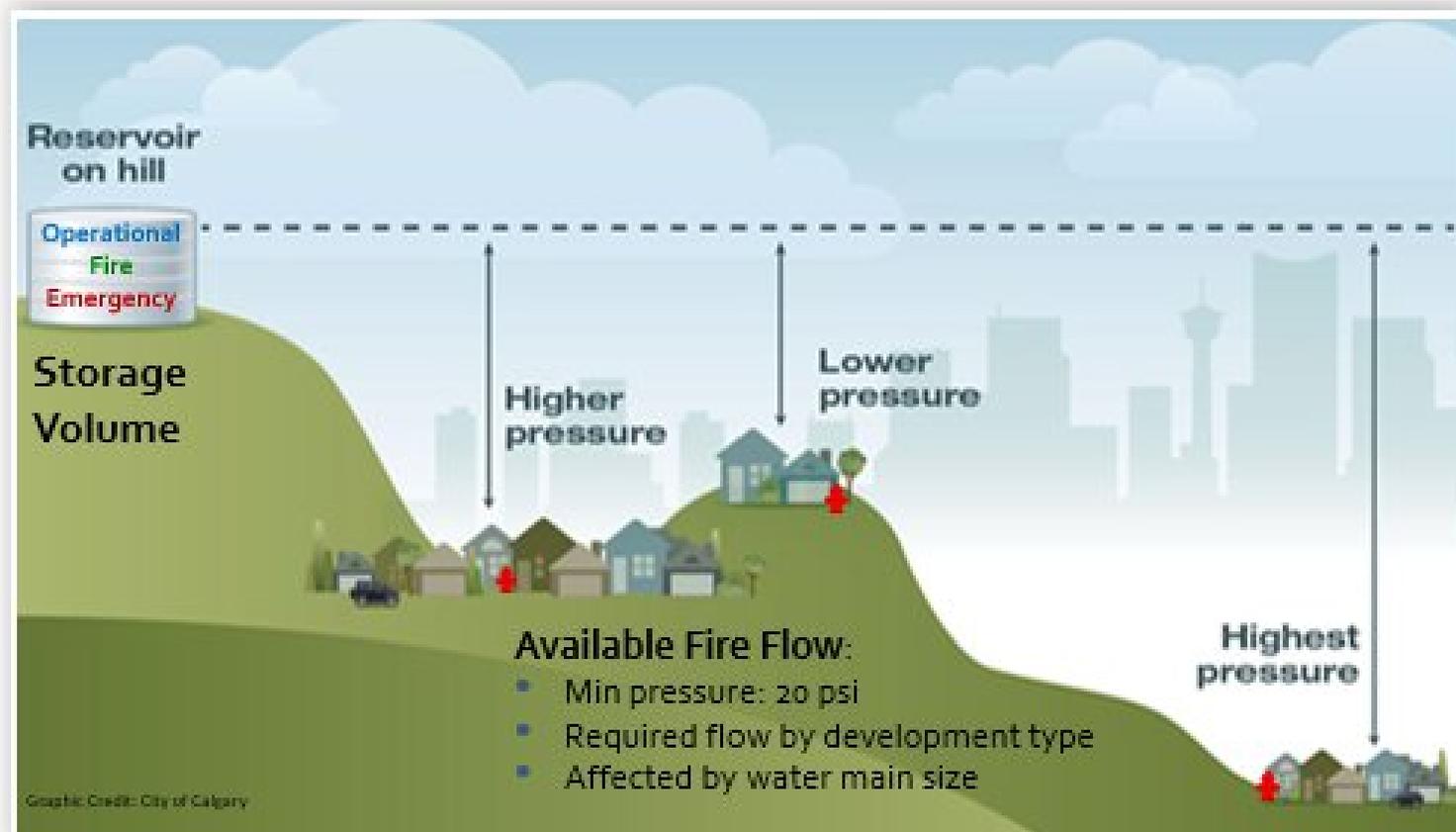
Water Supply Analysis



Service Pressure Zones



Distribution System Criteria



Distribution System Analysis

- ▶ Operational Efficiency
- ▶ Pressures and Fire Flow
- ▶ Storage Capacity
- ▶ Pumping Capacity
- ▶ Facility Condition
- ▶ Water Age/Quality

What We Need for the Future

Reliability | Resiliency

SUPPLY	TREATMENT	DELIVERY	ASR WELLS
<p>Current water supply is sufficient to meet customer demand, but additional supply will be necessary as demand increases.</p>	<p>Water quality sampling results show that the water system is in good standing. A future project will be required to increase firm capacity delivered from the treatment plant.</p>	<p>Older pipes and facilities are in need of maintenance, replacement or upsizing.</p>	<p>ASR wells can fill the projected gap between supply and demand in the near-term, and potential expansion of ASR can provide more resilient supply in the future.</p>

Pipe Renewal and Replacement Program

- ▶ Likelihood of failure parameters determine the condition of a pipe
- ▶ Consequence of failure parameters determine the effect of a pipe's failure
- ▶ Greenfield Drive example:
<https://youtu.be/IW70R0vW1HE>



Seismic Resiliency Overview

- ▶ Oregon Resilience Plan and the Cascadia Subduction Zone Earthquake
- ▶ Strategy
 - ▶ Define critical backbone
 - ▶ Determine seismic hazards
 - ▶ Identify impact on critical facilities
- ▶ Develop 50-year Seismic Capital Improvement Program

What's Next

Future Council Meetings

- ▶ November Meeting
 - ▶ The results and recommendations for system improvements and a 20-year capital improvement program.
 - ▶ Meeting will focus on these recommended improvements.
- ▶ December Meeting
 - ▶ City staff will recommend adoption of the master plan.

What's Next

Additional Actions

- ▶ Rate Study
- ▶ Cost of Service Analysis
- ▶ System Development Charge Methodology Update

C I T Y O F T I G A R D

Questions