



## **TUALATIN CITY COUNCIL**

**Monday, APRIL 23, 2018**

**JUANITA POHL CENTER**

**8513 SW Tualatin Road**

**Tualatin, OR 97062**

**WORK SESSION- Cancelled**  
**BUSINESS MEETING begins at 7:00 p.m.**

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**Mayor Lou Ogden**

**Council President Joelle Davis**

**Councilor Robert Kellogg**  
**Councilor Paul Morrison**

**Councilor Frank Bubenik**  
**Councilor Nancy Grimes**

**Councilor Jeff DeHaan**

**Welcome!** By your presence in the City Council Chambers, you are participating in the process of representative government. To encourage that participation, the City Council has specified a time for your comments on its agenda, following Announcements, at which time citizens may address the Council concerning any item not on the agenda or to request to have an item removed from the consent agenda. If you wish to speak on a item already on the agenda, comment will be taken during that item. Please fill out a Speaker Request Form and submit it to the Recording Secretary. You will be called forward during the appropriate time; each speaker will be limited to three minutes, unless the time limit is extended by the Mayor with the consent of the Council.

Copies of staff reports or other written documentation relating to each item of business referred to on this agenda are available for review on the City website at [www.tualatinoregon.gov/meetings](http://www.tualatinoregon.gov/meetings), the Library located at 18878 SW Martinazzi Avenue, and on file in the Office of the City Manager for public inspection. Any person with a question concerning any agenda item may call Administration at 503.691.3011 to make an inquiry concerning the nature of the item described on the agenda.

In compliance with the Americans With Disabilities Act, if you need special assistance to participate in this meeting, you should contact Administration at 503.691.3011. Notification thirty-six (36) hours prior to the meeting will enable the City to make reasonable arrangements to assure accessibility to this meeting.

Council meetings are televised *live* the day of the meeting through Washington County Cable Access Channel 28. The replay schedule for Council meetings can be found at [www.tvctv.org](http://www.tvctv.org). Council meetings can also be viewed by live *streaming video* on the day of the meeting at [www.tualatinoregon.gov/meetings](http://www.tualatinoregon.gov/meetings).

Your City government welcomes your interest and hopes you will attend the City of Tualatin Council meetings often.

## PROCESS FOR LEGISLATIVE PUBLIC HEARINGS

A **legislative** public hearing is typically held on matters which affect the general welfare of the entire City rather than a specific piece of property.

1. Mayor opens the public hearing and identifies the subject.
2. A staff member presents the staff report.
3. Public testimony is taken.
4. Council then asks questions of staff, the applicant, or any member of the public who testified.
5. When the Council has finished questions, the Mayor closes the public hearing.
6. When the public hearing is closed, Council will then deliberate to a decision and a motion will be made to either *approve*, *deny*, or *continue* the public hearing.

## PROCESS FOR QUASI-JUDICIAL PUBLIC HEARINGS

A **quasi-judicial** public hearing is typically held for annexations, planning district changes, conditional use permits, comprehensive plan changes, and appeals from subdivisions, partitions and architectural review.

1. Mayor opens the public hearing and identifies the case to be considered.
2. A staff member presents the staff report.
3. Public testimony is taken:
  - a) In support of the application
  - b) In opposition or neutral
4. Council then asks questions of staff, the applicant, or any member of the public who testified.
5. When Council has finished its questions, the Mayor closes the public hearing.
6. When the public hearing is closed, Council will then deliberate to a decision and a motion will be made to either *approve*, *approve with conditions*, or *deny the application*, or *continue* the public hearing.

## TIME LIMITS FOR PUBLIC HEARINGS

The purpose of time limits on public hearing testimony is to provide all interested persons with an adequate opportunity to present and respond to testimony. All persons providing testimony **shall be limited to 3 minutes**, subject to the right of the Mayor to amend or waive the time limits.

## EXECUTIVE SESSION INFORMATION

An Executive Session is a meeting of the City Council that is closed to the public to allow the City Council to discuss certain confidential matters. An Executive Session may be conducted as a separate meeting or as a portion of the regular Council meeting. No final decisions or actions may be made in Executive Session. In many, but not all, circumstances, members of the news media may attend an Executive Session.

The City Council may go into Executive Session for certain reasons specified by Oregon law. These reasons include, but are not limited to: ORS 192.660(2)(a) employment of personnel; ORS 192.660(2)(b) dismissal or discipline of personnel; ORS 192.660(2)(d) labor relations; ORS 192.660(2)(e) real property transactions; ORS 192.660(2)(f) information or records exempt by law from public inspection; ORS 192.660(2)(h) current litigation or litigation likely to be filed; and ORS 192.660(2)(i) employee performance of chief executive officer.



## OFFICIAL AGENDA OF THE TUALATIN CITY COUNCIL MEETING FOR APRIL 23, 2018

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### A. CALL TO ORDER

Pledge of Allegiance

### B. ANNOUNCEMENTS

1. Proclamation Declaring the Week of April 22 – April 28, 2018 as Volunteer Appreciation Week in the City of Tualatin
2. Proclamation Declaring the Week of May 6-12, 2018 as Public Service Recognition Week in the City of Tualatin
3. New Employee Introduction- Tabitha Boschetti, Assistant Planner
4. New Employee Introduction- Casey Fergeson, Project Engineer
5. New Employee Introduction- Quinn Wolf, Water Division-Utility Technician I

### C. CITIZEN COMMENTS

*This section of the agenda allows anyone to address the Council regarding any issue not on the agenda, or to request to have an item removed from the consent agenda. The duration for each individual speaking is limited to 3 minutes. Matters requiring further investigation or detailed answers will be referred to City staff for follow-up and report at a future meeting.*

### D. CONSENT AGENDA

*The Consent Agenda will be enacted with one vote. The Mayor will ask Councilors if there is anyone who wishes to remove any item from the Consent Agenda for discussion and consideration. If you wish to request an item to be removed from the consent agenda you should do so during the Citizen Comment section of the agenda. The matters removed from the Consent Agenda will be considered individually at the end of this Agenda under, Items Removed from the Consent Agenda. The entire Consent Agenda, with the exception of items removed from the Consent Agenda to be discussed, is then voted upon by roll call under one motion.*

1. Consideration of Approval of the Minutes for the Work Session and Regular Meeting of April 9, 2018
2. Consideration of Approval of 2018 Liquor License Renewals-Late Submittals
3. Consideration of **Resolution No. 5363-18** Awarding the Contract for the C-1 Reservoir Rehabilitation Project to CBI Services, LLC and Authorizing the City Manager to Execute a Contract

4. Consideration of **Resolution No. 5358-18** Granting a Conditional Use Permit with Conditions for a Fire Station Use in the Light Manufacturing (ML) Planning District on Land adjacent to 7100 SW McEwan Road (Tax Map 2S1 13DD, Tax Lot 1601) (CUP-17-0002)

**E. SPECIAL REPORTS**

1. Annual Report for the Tualatin Library Advisory Committee
2. Update on Tualatin Ballot Measure 34-282 Public Information Efforts

**F. PUBLIC HEARINGS – *Quasi-Judicial***

1. Request for Review of MAR17-0041, Tualatin Professional Center Driveway Adjustment Land Use Decision Located at 6464 SW Borland Road

**G. ITEMS REMOVED FROM CONSENT AGENDA**

*Items removed from the Consent Agenda will be discussed individually at this time. The Mayor may impose a time limit on speakers addressing these issues.*

**H. COMMUNICATIONS FROM COUNCILORS**

**I. ADJOURNMENT**

**City Council Meeting**

**Meeting Date:** 04/23/2018

**ANNOUNCEMENTS:** Proclamation Declaring the Week of April 22 – April 28, 2018 as Volunteer Appreciation Week in the City of Tualatin

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**ANNOUNCEMENTS**

Proclamation Declaring the Week of April 22 – April 28, 2018 as Volunteer Appreciation Week in the City of Tualatin

**SUMMARY**

Volunteers serve throughout the City – in our Parks, the Library, at Special Events, on Boards and Commissions, in other City departments - as Reserve Police Officers and Interns, and more. In 2017 the City received 21,000 hours of donated time from over 2,000 volunteers. These volunteers were honored at a reception held in their honor and this proclamation deems this week as Volunteer Appreciation Week in the City of Tualatin.

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Proclamation Vol Week 2018

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# *Proclamation*

## *Declaring the Week of April 22 - April 28, 2018 as Volunteer Appreciation Week in the City of Tualatin*

WHEREAS, the entire community can inspire, equip and mobilize people to take action that changes the world; and

WHEREAS, in 2017 over 2,000 volunteers contributed approximately 21,000 hours of their time, an equivalent of about 10 full time employees, to the betterment of our community; and

WHEREAS, volunteers give freely of their time, talents, and energy, and ask only for a thank you for their countless hours of service; and

WHEREAS, it has been a long standing tradition in our community for individuals, families, and local businesses to volunteer to make a difference in our community; and

WHEREAS, it is fitting to recognize our volunteers for their dedicated service;

NOW, THEREFORE, BE IT PROCLAIMED BY THE CITY COUNCIL OF THE CITY OF TUALATIN, Oregon that:

Section 1. The week of April 22 – April 28, 2018, to be proclaimed “Volunteer Appreciation Week” in the City of Tualatin.

Section 2. The City of Tualatin takes great pleasure in honoring the volunteers of our community and conveying our sincere gratitude and appreciation for their committed, selfless, and compassionate efforts; our volunteers truly Make Magic Happen!

INTRODUCED AND ADOPTED this 23<sup>rd</sup> day of April, 2018.

CITY OF TUALATIN, OREGON

BY \_\_\_\_\_  
Mayor

ATTEST:

BY \_\_\_\_\_  
City Recorder

**City Council Meeting****Meeting Date:** 04/23/2018**ANNOUNCEMENTS:** Proclamation Declaring the Week of May 6-12, 2018 as Public Service Recognition Week in the City of Tualatin

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**ANNOUNCEMENTS**

Proclamation Declaring the Week of May 6-12, 2018 as Public Service Recognition Week in the City of Tualatin

**SUMMARY**

Public Service is an honorable calling that involves a wide variety of challenging and rewarding professions, including providing recreational services, maintaining public safety, improving transportation, protecting our environment, and performing administrative and management activities which are essential to efficient and effective operation of government. This proclamation recognizes the service of our employees by recognizing the week of May 6 - 12, 2018 as Public Service Recognition Week in the City of Tualatin.

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Proclamation

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# Proclamation

*Declaring the Week of May 6 - May 12, 2018 as  
"Public Service Recognition Week"*

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*In Honor of the Public Employees of the City of Tualatin*

WHEREAS, public service is an honorable calling that involves a wide variety of challenging and rewarding professions, including providing recreational services, maintaining public safety, improving transportation, protecting our environment, and performing administrative and management activities which are essential to efficient and effective operation of government; and

WHEREAS, Tualatin's city employees contribute significantly to the quality of life for the Tualatin community, with their commitment to excellence, high ethical standards, and diversity of skills; and

WHEREAS, excellence in the delivery of public service helps keep Tualatin strong, prosperous, and a wonderful place in which to live, work, play and volunteer; and

WHEREAS, this commemoration provides an opportunity to express our appreciation for the many contributions public employees make to our daily lives.

NOW, THEREFORE, IT IS PROCLAIMED by the Tualatin City Council that the week of May 6-12, 2018 be Public Service Recognition Week in the City of Tualatin and the Council encourages all citizens to recognize the accomplishments and contributions of public employees.

INTRODUCED AND ADOPTED this 23rd day of April, 2018.

CITY OF TUALATIN, OREGON

BY \_\_\_\_\_  
Mayor

ATTEST:

BY \_\_\_\_\_  
City Recorder





# STAFF REPORT

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**THROUGH:** Sherilyn Lombos, City Manager

**FROM:** Nicole Morris, Deputy City Recorder

**DATE:** 04/23/2018

**SUBJECT:** Consideration of Approval of the Minutes for the Work Session and Regular Meeting of April 9, 2018

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**ISSUE BEFORE THE COUNCIL:**

The issue before the Council is to approve the minutes for the Work Session and Regular Meeting of April 9, 2018.

**RECOMMENDATION:**

Staff respectfully recommends that the Council adopt the attached minutes.

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**Attachments:**



# STAFF REPORT

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**THROUGH:** Sherilyn Lombos, City Manager

**FROM:** Nicole Morris, Deputy City Recorder

**DATE:** 04/23/2018

**SUBJECT:** Consideration of Approval of 2018 Liquor License Renewals-Late Submittals

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### **ISSUE BEFORE THE COUNCIL:**

The issue before the Council is to approve liquor license renewal applications for 2018. The business listed below submitted their 2018 renewal application too late to be included in the renewals approved at the April 26, 2018 Council meeting. Copies have not been included with this staff report but are available at the City Offices for review.

### **RECOMMENDATION:**

Staff respectfully recommends the Council approve endorsement of the following liquor license application renewal for 2018:

LaSen Vietnamese Grill

### **EXECUTIVE SUMMARY:**

Annually the Oregon Liquor Control Commission (OLCC) requires all liquor licenses be renewed. According to the provisions of City Ordinance No. 680-85, establishing procedures for liquor license applicants, applicants are required to fill out a City application form, from which a review by the Police Department is conducted, according to standards and criteria established in Section 6 of the ordinance. The liquor license renewal applications are in accordance with all ordinances and the Police Department has conducted reviews of the applications.

According to the provisions of Section 5 of Ordinance No. 680-85 a member of the Council or the public may request a public hearing on any of the liquor license renewal requests. If such a public hearing request is made, a hearing will be scheduled and held on the license. It is important that any request for such a hearing include reasons for said hearing.

### **FINANCIAL IMPLICATIONS:**

A renewal fee of \$35 has been paid by the applicant.

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### **Attachments:**





# STAFF REPORT

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**THROUGH:** Sherilyn Lombos, City Manager

**FROM:** Dominique Huffman, Project Engineer  
Jeff Fuchs, Public Works Director/City Engineer

**DATE:** 04/23/2018

**SUBJECT:** Consideration of **Resolution No. 5363-18** Awarding the Contract for the C-1 Reservoir Rehabilitation Project to CBI Services, LLC and Authorizing the City Manager to Execute a Contract

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### **ISSUE BEFORE THE COUNCIL:**

Award the construction contract for the C-1 Reservoir Rehabilitation Project.

### **RECOMMENDATION:**

Staff recommends that Council approve the resolution to allow the City Manager to execute a contract with CBI Services, LLC to construct the C-1 Reservoir Rehabilitation Project in the amount of \$1,030,000.00.

### **EXECUTIVE SUMMARY:**

The project will replace the existing C-1 Reservoir roof and top two rings (steel wall sections), repaint the interior and exterior coatings, and re-install associated appurtenances such as the interior and exterior ladders. Miscellaneous maintenance work will also be completed on C-2 Reservoir under this contract.

In 2015, the City of Tualatin constructed the C-2 Reservoir. As part of that project, the nearby C-1 Reservoir was planned to be recoated (primer and finish coat). However, when the reservoir was drained to perform this coating work, the roof structure was highly corroded and structurally compromised. Staff postponed the coating of C-1 Reservoir to further assess the extent of the corrosion.

In June 2017, the City entered into a contract with CH2M Hill for engineering services through design and construction for replacement of the C-1 Reservoir roof structure. During design, a structural assessment of the walls was completed and it was determined the top two rings needed to be replaced as well due to corrosion.

The project was advertised in the Daily Journal of Commerce on February 12<sup>th</sup> and 14<sup>th</sup>, 2018. Two (2) bids were received prior to the close of the bid period on March 21<sup>st</sup>, 2018. CBI

Services, LLC submitted the lowest responsible bid for the project in the amount of \$1,030,000.00.

**FINANCIAL IMPLICATIONS:**

Funds for this project are available in the Water Operating Fund. Staff anticipates spending \$100,000 in the current fiscal year and the remaining \$930,000 will be budgeted in FY 18/19.

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**Attachments:**    Resolution

RESOLUTION NO. 5363-18

A RESOLUTION AWARDING THE CONTRACT FOR THE C-1 RESERVOIR REHABILITATION PROJECT

WHEREAS, the project was advertised in the *Daily Journal of Commerce* on February 12<sup>th</sup> and 14<sup>th</sup>, 2018; and

WHEREAS, two (2) bids were received prior to the close of the bid period on March 21<sup>st</sup>, 2018; and

WHEREAS, CBI Services, LLC submitted the lowest bid for the project in the amount of \$1,030,000; and

WHEREAS, there are funds budgeted for this project in the Water Operating Fund.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TUALATIN, OREGON, that:

**Section 1.** The contract is awarded to CBI Services, LLC.

**Section 2.** The City Manager is authorized to execute a contract with CBI Services, LLC in the amount of \$1,030,000.00.

**Section 3.** The City Manager, or the City Manager's designee, is authorized to execute Change Orders totaling up to 10% of the original contract amount.

**Section 4.** This resolution is effective upon adoption.

Adopted by the City Council this 23<sup>rd</sup> day of April, 2018.

CITY OF TUALATIN, OREGON

BY \_\_\_\_\_  
Mayor

APPROVED AS TO FORM

ATTEST:

BY \_\_\_\_\_  
City Attorney

BY \_\_\_\_\_  
City Recorder



# STAFF REPORT

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**THROUGH:** Sherilyn Lombos, City Manager

**FROM:** Sean Brady, City Attorney

**DATE:** 04/23/2018

**SUBJECT:** Consideration of **Resolution No. 5358-18** Granting a Conditional Use Permit with Conditions for a Fire Station Use in the Light Manufacturing (ML) Planning District on Land adjacent to 7100 SW McEwan Road (Tax Map 2S1 13DD, Tax Lot 1601) (CUP-17-0002)

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### **ISSUE BEFORE THE COUNCIL:**

Consideration of Resolution No. 5358-18 Granting a Conditional Use Permit with Conditions for a Fire Station Use in the Light Manufacturing (ML) Planning District on Land adjacent to 7100 SW McEwan Road (Tax Map 2S1 13DD, Tax Lot 1601) (CUP-17-0002).

### **RECOMMENDATION:**

Staff recommends Council consider Resolution No. 5358-18.

### **EXECUTIVE SUMMARY:**

Resolution No. 5358-18 grants a Conditional Use Permit, with conditions, for CUP 17-002 to allow Tualatin Valley Fire & Rescue (TVF&R) to operate a Fire Station adjacent to 7100 SW McEwan Road (Tax Map 2S1 13DD, Tax Lot 1601).

On April 9, 2018, Council held a quasi-judicial public hearing to consider approval of a Conditional Use Permit application filed by TVF&R (CUP -17-0002). At the public hearing, Council heard and considered the testimony and evidence presented on behalf of the Applicant, City staff, and those appearing at the public hearing. After hearing the testimony and argument, Council closed the public hearing, deliberated, and voted to grant the Conditional Use Permit with conditions. No procedural or other objections were voiced by any party.

The Findings and Conclusions in support of the decision are contained in Exhibit A to Resolution No. 5358-18. The Application filed by TVF&R is attached as Exhibit B to Resolution No. 5358-18.

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**Attachments:** Reso 5358-18 - CUP TVFR  
Exhibit A - Analysis and Findings Reso 5358-18  
Exhibit B - CUP App Reso 5358-18





RESOLUTION NO. 5358-18

A RESOLUTION GRANTING A CONDITIONAL USE PERMIT WITH CONDITIONS FOR FIRE STATION USE IN THE LIGHT MANUFACTURING (ML) PLANNING DISTRICT ON LAND ADJACENT TO 7100 SW MCEWAN ROAD (TAX MAP 2S1 13DD, TAX LOT 1601) (CUP-17-0002).

WHEREAS, Tualatin Valley Fire & Rescue (TVF&R) submitted an application with the City for a conditional use permit, for property located adjacent to 7100 SW McEwen Road, Tualatin, Oregon, 98062 (Tax Map 2S1 13DD, Tax Lot 1601);

WHEREAS, the Council held a quasi-judicial public hearing on April 9, 2018 to consider the application;

WHEREAS, notice of public hearing was given as required by the Tualatin Development Code 31.064;

WHEREAS, the Council heard and considered the testimony and evidence presented on behalf of the applicant, the City staff, and those appearing at the public hearing; and

WHEREAS, after the conclusion of the public hearing the Council voted to approve the application (with conditions).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TUALATIN, OREGON, that:

**Section 1. Findings.** The Council adopts as its findings the *Analysis and Findings* attached as Exhibit A, and is incorporated by reference.

**Section 2. Conditions.** The Conditional Use Permit (CUP-17-0002) for Tualatin Valley Fire & Rescue (TVF&R), attached as Exhibit B, and incorporated by reference, is approved with the following conditions:

- A. The approval of Conditional Use Permit 17-0002 does not approve any site redevelopment or exterior building modifications, and the applicant must obtain approval from the City for any site or exterior modifications, pursuant to TDC 73.040(1) and TDC 73.100(1) and (2).
- B. The applicant must operate the use consistent with all application materials submitted to the City dated December 2017 (City stamp reads December 8, 2017).
- C. The applicant must comply with the noise standards in TDC 60.085.
- D. The applicant must—separately from the CUP—submit any sign permit applications pursuant to and in compliance with TDC Chapter 38.

E. The approval period is pursuant to TDC 32.090 Automatic Termination of Conditional Use as reproduced:

(1) Unless otherwise provided by the Council in the resolution granting approval of the conditional use permit, a conditional use permit shall automatically become null and void two years after the effective date upon which it was granted unless one of the following events occur:

(a) The applicant or his successor in interest has secured a building permit within said two-year period, if a building permit is required, and has actually commenced construction of the building or structure authorized by the permit within said two-year period.

(b) The applicant or his successor in interest has commenced the activity or installation of the facility or structure authorized by the conditional use permit within said two-year period.

(2) The applicant may submit a written request to the City Council for an extension of time on the conditional use permit to avoid the permit's becoming null and void. The request for extension must be submitted prior to the expiration of the times established by Subsection (1) above. The City Council may, in the resolution granting such conditional use permit, provide for an extension of time beyond 1 year.

F. The applicant must comply with all applicable TDC policies and regulations.

**Section 3.** This resolution is effective upon adoption.

Adopted by the City Council this 23rd day of April, 2018.

CITY OF TUALATIN, OREGON

BY \_\_\_\_\_  
Mayor

APPROVED AS TO FORM:

BY \_\_\_\_\_  
City Attorney

ATTEST:

BY \_\_\_\_\_  
City Recorder

**TVF&R USE FOR NEW FIRE STATION 39**

**CONDITIONAL USE PERMIT APPLICATION (CUP-17-0002)**

**ANALYSIS AND FINDINGS**

The issue before the City Council is consideration of a conditional use permit for a fire station use (Station 39) operated by Tualatin Valley Fire & Rescue (TVF&R) adjacent to 7100 SW McEwan Road (Tax Map 2S1 13DD, Tax Lot 1601).

In order to grant the proposed Conditional Use Permit, the request must meet the approval criteria of Tualatin Development Code (TDC) Section 32.030. The applicant prepared a narrative that addresses the criteria, which is within the application materials (Attachment B), and staff has reviewed this and other application materials and included pertinent excerpts below.

*The following materials and descriptions are based largely on the applicant's narrative; staff has made some minor edits. Staff comments, findings, and conditions of approval are in italic font.*

**(1) The use is listed as a conditional use in the underlying planning district.**

**Applicant Response:** Station 39 is located in the ML zoning district. As noted in TDC Section 60.040(1)(f), a Fire Station is permitted in the ML zone as a Conditional Use.

*Staff finds that Criterion 1 is met.*

**(2) The characteristics of the site are suitable for the proposed use, considering size, shape, location, topography, existence of improvements, and natural features.**

**Applicant Response:**

**Size:** The site characteristics are compatible with other TVF&R stations throughout the District. The site size (1.16 acres) is consistent with comparable TVF&R stations and can accommodate the building program for Station 39.

*Staff finds that the site size is suitable for the use.*

**Shape:** *The applicant did not provide a response specific to the shape of the property. The site is generally rectangular. The applicant has provided a conceptual site plans to show that the proposed use could be accommodated on the property.*

**Location:** TVF&R has identified the location as an appropriate location to meet required service response standards and needs of the District. It's location near Interstate 5 will provide quick response to incidents on the freeway as well as quick emergency response to the surrounding community. TVF&R's Station 34 is located in the City of Tualatin but is on the westside of Interstate 5 just off Tualatin Sherwood Road (19365 SW 90th Court). Station 39's location on the eastside of Interstate 5 will significantly enhance response times for emergency services, making this location very suitable for the proposed use.

*Staff finds that the location is suitable for the use. The property is located in an industrial area and surrounded by a storage facility and medical office uses, which are compatible with the proposed fire station use.*

## Exhibit A to Resolution No. 5358-18

Topography: There are no topographic or natural features on the site that will impact construction of the Station 39.

*Staff finds that the topography is suitable for the proposed use.*

Improvements: *The applicant did not provide a response to the existing improvements on the site. The project site is a park-like green space within property that was formerly part of the U-Haul site and is surrounded on three sides by the remaining U-Haul business. The site features all utilities in the fully improved street that fronts the project site. Staff finds that the improvements on the site are appropriate for the proposed use.*

Natural Features: There are no topographic or natural features on the site that will impact construction of the Station 39.

*Staff finds that—with the exception of on-site landscaping that includes trees and taller shrubs—there are no natural features on the subject site and the proposed use will not affect natural features.*

As noted, the Conditional Use Permit does not authorize any construction and only analyzes the use on the site. No construction or site modifications are directly resulting from this permit. It is understood that approval of this Conditional Use Permit does not approve any site redevelopment or exterior building designs, and that after Conditional Use Permit approval is obtained, the applicant will seek approval from the City pursuant to TDC 73.040(1) and TDC 73.100 (1) and (2) for Architectural Review.

*Staff finds that the following condition of approval is required to meet Criterion 2:*

*Condition of Approval No. 1: The approval of Conditional Use Permit 17-0002 does not approve any site redevelopment or exterior building modifications, and the applicant shall obtain approval from the City for any site or exterior designs, pursuant to TDC 73.040(1) and TDC 73.100(1) and (2).*

**(3) The proposed development is timely, considering the adequacy of transportation systems, public facilities, and services existing or planned for the area affected by the use.**

### **Applicant Response:**

#### **Transportation Systems**

The construction of the proposed Station 39 is funded through General Fund and a Local Option Levy approved by District voters in 2014 to upgrade and improve the safety and operations of TVF&R's fire stations. TVF&R identified the need for a station in this location to ensure quick response times in the future as development continues in Tualatin, Lake Oswego, and Tigard. Public services are immediately available to the site. As noted in the Traffic Impact Analysis submitted with this application, Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.

*Access to the subject site will be from SW McEwan which is generally improved and appropriate for the use, though additional improvements may be required during the Architectural Review phase. .*

#### **Off-Street Parking**

*The applicant did not address parking specifically. Section 73.370 of the TDC explains how many spaces are required for specific uses. A Fire Station use is not listed. In the event that a use is not listed,*

*subsection 1.g explains that the Community Development Director will compare the use to other uses to determine the appropriate number of parking spaces needed. Again, the intent of this evaluation is to determine the appropriateness of the site for the proposed conditional use, a fire station; actual review of the spaces will be determined with the Architectural Review. The applicant has provided a conceptual site plan that shows parking that has been designed similar to the needs of other fire stations in the TVF&R system. The site plan suffices, for the purposes of a CUP, to demonstrate the site is suitable. Staff finds that the off-street parking conditions are suitable for the proposed use.*

#### Public Facilities and Services

*The applicant did not specifically address the public facilities available at the site. Through evaluation with the City engineering staff, it has been determined that the site has full utilities available in the fronting street except storm water. The conceptual site plan includes a detention basin for purposes of storm water, thus illustrating that the site is suitable for the use. Staff finds that the existing and proposed public facilities and services are adequate to service the proposed use.*

*Staff finds that Criterion 3 is met.*

- (4) The proposed use will not alter the character of the surrounding area in any manner, which substantially limits, impairs, or precludes the use of surrounding properties for the primary uses listed in the underlying Planning District.**

**Applicant Response:** The location of Station 39 will allow uses on the property immediately adjacent to Station 39 to continue operating and will not limit or preclude the use of surrounding property. As can be seen on the attached Station 39 site plan, TVF&R will take direct access to SW McEwan Road and will not impede or conflict with access to surrounding properties. The Traffic Impact Analysis submitted with this application indicates that Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.

The site plan also notes how stormwater will be accommodated on-site and in a manner that will not impact adjacent properties. As well landscaping provided with the project will create a visual buffer between Station 39 and adjacent properties.

The emergency services use is not out of character with surrounding land uses in the ML zone. Medical offices are located across SW McEwan from Station 39. As can be seen from the building elevations submitted with this application Station 39 will be an appropriate design and will not be out of character with existing industrial and office buildings on surrounding properties.

The use (fire station) being proposed for Conditional Use approval will not alter the character of the surrounding area in any manner that substantially limits, impairs, or precludes the use of surrounding properties for the primary uses listed in the underlying planning district (Light Manufacturing - ML). The new station will be constructed on a legal tax lot (2S1 13 DD TL 1601) – see Exhibit 5 in the Application Appendix. As noted, existing properties in the surrounding area are a mix of industrial, office and vehicle storage. A fire station as a use is compatible with these types of uses from an operational and design perspective.

In response to staff comments, the applicant understands their concern that the physical nature of the new tax lot may raise issues about the use of the adjacent northern triangle of the U-Haul property. The use of the northern triangle for the cell tower will not be impacted, but there will be reduced parking. However, the parking issue is being addressed separately through the land acquisition and

compensation process the District has followed to secure the property and would be present whether or not a new fire station was constructed on Tax Lot 1601. The parcel could remain vacant and fenced and the concerns staff has expressed would remain. Staff concerns about the new parcel potentially impeding use of the northern parking area is not a use compatibility issue, which is the intent of the Conditional Use review and the focus of the decision criteria. The concern that's raised would exist regardless of the use proposed or if the District was proposing nothing at all on their property.

*Staff notes that the proposed use would not alter the overall character of the immediate area defined by the properties abutting the site. In looking at the design of the station, as shown in the materials submitted for the CUP, it would seem that the station would eliminate several parking spaces from the existing conditions enjoyed by U-Haul. However, it is important to understand that the loss of the spaces was the result of the condemnation of the property, not the conditional use permit.*

*Staff finds that Criterion 4 is met.*

**(5) The proposal will satisfy those objectives and policies of the Tualatin Community Plan which apply to the proposed use.**

The Tualatin Community Plan, which is the City comprehensive plan, is integrated within the Tualatin Development Code (TDC) as Chapters 1-30. Based on discussions with City of Tualatin staff, the following two sections of the TDC are applicable to the proposed use:

A. Section 7.040 Manufacturing Planning District Objectives.

This section describes the purpose of each manufacturing planning district.

(2) Light Manufacturing Planning District (ML)

(a) Suitable for warehousing, wholesaling and light manufacturing processes that are not hazardous and that do not create undue amounts of noise, dust, odor, vibration, or smoke. Also suitable, with appropriate restrictions, are the retail sale of products not allowed for sale in General Commercial areas, subject to the Special Commercial Setback from arterial streets and Commercial Services Overlay as generally illustrated in Map 9-5 and specifically set forth in TDC 60.035, and office commercial uses where any portion of a legally created lot is within 60 feet of a CO Planning District boundary. Also suitable is the retail sale of products manufactured, assembled, packaged or wholesaled on the site provided the retail sale area, including the showroom area, is no more than 5% of the gross floor area of the building not to exceed 1,500 square feet. Also suitable for the retail sale of home improvement materials and supplies provided it is not greater than 60,000 square feet of gross floor area per building or business and subject to the Special Commercial Setback from arterial streets as generally illustrated in Map 9-5 and specifically set forth in TDC 60.035. Rail access and screened open storage allowed in these areas will conform to defined architectural, landscape and environmental design standards.

B. Chapter 60: Light Manufacturing Planning District (ML)

Section 60.010 Purpose.

## Exhibit A to Resolution No. 5358-18

The purpose of this district is to provide areas of the City that are suitable for industrial uses and compatible with adjacent commercial and residential uses. The district serves to buffer heavy manufacturing uses from commercial and residential areas. The district is suitable for warehousing, wholesaling, and light manufacturing processes that are not hazardous and do not create undue amounts of noise, dust, odor, vibration, or smoke. The district is also suitable for retail sale of products manufactured, assembled, packaged or wholesaled on the site provided the retail sale area, including the showroom area, is no more than 5% of the gross floor area of the building not to exceed 1,500 square feet and, with appropriate restrictions, for retail sale of products not allowed for sale in General Commercial Planning Districts, and office commercial uses where any portion of a legally created lot is within 60 feet of a CO Planning District boundary. Railroad access and screened outdoor storage will be allowed in this district, conforming to defined architectural, landscape, and environmental design standards. In accordance with the Industrial Business Park Overlay District, TDC Chapter 69, and TDC 60.037-60.038 selected small-scale mixed uses that are supportive of and secondary to industrial uses are allowed to provide services to businesses and employees. The purpose is also to allow certain commercial service uses in the Commercial Services Overlay shown in the specific areas illustrated on Map 9-5 and selected commercial uses subject to distance restrictions from residential areas and subject to the Special Commercial Setback from arterial streets as generally illustrated in Map 9-5 and specifically set forth in TDC 60.035.

Locating TVF&R Station 39 in the ML district is appropriate. As noted in TDC Section 60.040(1)(f), a Fire Station is permitted in the ML zone as a Conditional Use. The use is not hazardous and will not create undue amounts of noise, dust, odor, vibration, or smoke. Any noise generated will be limited. Station 39 will not require sirens to sound at or near the site. Fire personnel are not required to sound sirens when leaving the station, the lights on the apparatus normally are sufficient to stop traffic. The only time the fire apparatus operators would be required to use their sirens would be when they pass through a traffic signal. Regardless, there are no noise sensitive uses near the site.

The City's comprehensive plan is designed to promote public health, safety, and welfare. Providing opportunities for emergency services to operate within the City is a critical aspect of community health, safety, and welfare. As noted earlier, locating Station 39 at this site will allow TVF&R to achieve their emergency services response times. As well, the Traffic Impact Analysis submitted with this application indicates that Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.

*Staff additionally finds that Section 32.030 Criteria for Conditional uses applies. The purpose for this section states:*

*The City Council may allow a conditional use, after a hearing conducted pursuant to TDC 32.070, provided that the applicant provides evidence substantiating that all the requirements of this Code relative to the proposed use are satisfied.*

*The Analysis and Findings included in this document address the five (5) identified criteria listed in Section 32.030 to aid in the City Council decision on whether or not a proposed conditional use meets applicable TDC requirements.*

**Exhibit A to  
Resolution No. 5358-18**

*Staff finds that the following conditions of approval are required to meet Criterion 5:*

*Condition of Approval No. 2: The applicant shall operate the use consistent with all application materials submitted to the City dated December 2017 (City stamp reads December 8, 2017).*

*Condition of Approval No. 3: The applicant shall comply with the noise standards in TDC 60.085.*

*Condition of Approval No. 4: The applicant shall—separately from the CUP—submit any sign permit applications pursuant to and in compliance with TDC Chapter 38.*

*Condition of Approval No. 5: The approval period shall be pursuant to TDC 32.090 Automatic Termination of Conditional Use as reproduced:*

- (1) Unless otherwise provided by the Council in the resolution granting approval of the conditional use permit, a conditional use permit shall automatically become null and void two years after the effective date upon which it was granted unless one of the following events occur:
  - (a) The applicant or his successor in interest has secured a building permit within said two-year period, if a building permit is required, and has actually commenced construction of the building or structure authorized by the permit within said two-year period.*
  - (b) The applicant or his successor in interest has commenced the activity or installation of the facility or structure authorized by the conditional use permit within said two-year period.**
- (2) The applicant may submit a written request to the City Council for an extension of time on the conditional use permit to avoid the permit's becoming null and void. The request for extension must be submitted prior to the expiration of the times established by Subsection (1) above. The City Council may, in the resolution granting such conditional use permit, provide for an extension of time beyond 1 year.*

*Condition of Approval No. 6: The applicant shall comply with all applicable TDC policies and regulations.*

**SUMMARY OF ANALYSIS AND FINDINGS**

Based on the application materials, conditions of approval, and the analysis and findings presented above, staff finds that CUP-17-0002 meets all criteria of TDC 32.030 “Criteria for Review of Conditional Uses.”





# City of Tualatin

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**"NECESSARY PARTIES"  
MARKED BELOW**

## NOTICE OF APPLICATION SUBMITTAL

- ANNEXATION       CONDITIONAL USE PERMIT       PLAN TEXT AMENDMENT  
 ARCHITECTURAL REVIEW       PLAN MAP AMENDMENT       OTHER:

**CASE/FILE: CUP17-0002** (Community Development Dept.: Planning Division)

<b>PROPOSAL</b>	To approve the conditional use of a fire station—pursuant to Tualatin Development Code (TDC) 60.040(1)(f) for Tualatin Valley Fire & Rescue Station 39 on land adjacent to 7100 SW McEwan Road.
-----------------	---

<b>PROPERTY</b>  <input type="checkbox"/> n/a	<b>Name of Application</b>	TUALATIN VALLEY FIRE & RESCUE STATION 39		
	<b>Street Address</b>	Adjacent to 7100 SW McEwan Road		
	<b>Tax Map and Lot No(s).</b>	2S1 13DD 01601		
	<b>Planning District</b>	ML	<b>Overlays</b> <input type="checkbox"/>	<b>NRPO</b> <input type="checkbox"/>
	<b>Previous Applications</b>	AR96-33, 93-31, 74-02; VAR93-04, 94-03, 96-03; CUP13-05	<b>Additional Applications:</b>	<b>CIO</b> MANUFACTURING

<b>DATES</b>	<b>Receipt of application</b>	12/08/2017	<b>Deemed Complete</b>	01/08/2018	<b>CONTACT</b>	<b>Name:</b> Erin Engman
	<b>Notice of application submittal</b>			01/10/2018		<b>Title:</b> Associate Planner
	<b>Project Status / Development Review meeting</b>					<b>E-mail:</b> EENGMAN@tualatin.gov
	<b>Comments due for staff report</b>			01/24/2018		<b>Phone:</b> 503-691-3024
	<b>Public meeting:</b> <input type="checkbox"/> ARB <input type="checkbox"/> TPC <input checked="" type="checkbox"/> n/a					<b>Notes:</b> You may view the application materials through this City web page: <a href="http://www.tualatinoregon.gov/projects">www.tualatinoregon.gov/projects</a>
	<b>City Council (CC)</b>		<input type="checkbox"/> n/a	04/09/2018		

- |   |  |  |
|---|--|--|
| <p><b>City Staff</b></p> <p> <input checked="" type="checkbox"/> City Manager<br/> <input checked="" type="checkbox"/> Building Official<br/> <input checked="" type="checkbox"/> Chief of Police<br/> <input checked="" type="checkbox"/> City Attorney<br/> <input checked="" type="checkbox"/> City Engineer<br/> <input checked="" type="checkbox"/> Community Development Director<br/> <input checked="" type="checkbox"/> Community Services Director<br/> <input checked="" type="checkbox"/> Economic Development liaison<br/> <input checked="" type="checkbox"/> Engineering Associate*<br/> <input checked="" type="checkbox"/> Finance Director<br/> <input checked="" type="checkbox"/> GIS technician(s)<br/> <input checked="" type="checkbox"/> IS Manager<br/> <input checked="" type="checkbox"/> Operations Director*<br/> <input checked="" type="checkbox"/> Parks and Recreation Coordinator<br/> <input checked="" type="checkbox"/> Planning Manager<br/> <input checked="" type="checkbox"/> Street/Sewer Supervisor<br/> <input checked="" type="checkbox"/> Water Supervisor         </p> <p><b>Neighboring Cities</b></p> <p> <input type="checkbox"/> Durham<br/> <input type="checkbox"/> King City Planning Commission<br/> <input type="checkbox"/> Lake Oswego<br/> <input type="checkbox"/> Rivergrove PC<br/> <input type="checkbox"/> Sherwood Planning Dept.         </p> | <p> <input type="checkbox"/> Tigard Community Dev. Dept.<br/> <input type="checkbox"/> Wilsonville Planning Division         </p> <p><b>Counties</b></p> <p> <input type="checkbox"/> Clackamas County Dept. of Transportation and Development<br/> <input checked="" type="checkbox"/> Washington County Dept. of Land Use and Transportation (ARs)<br/> <input type="checkbox"/> Washington County Long Range Planning (LRP) (Annexations)         </p> <p><b>Regional Government</b></p> <p><input checked="" type="checkbox"/> Metro</p> <p><b>School Districts</b></p> <p> <input type="checkbox"/> Lake Oswego School Dist. 7J<br/> <input type="checkbox"/> Sherwood SD 88J<br/> <input type="checkbox"/> Tigard-Tualatin SD 23J (TTSD)<br/> <input type="checkbox"/> West Linn-Wilsonville SD 3J         </p> <p><b>State Agencies</b></p> <p> <input type="checkbox"/> Oregon Dept. of Aviation<br/> <input type="checkbox"/> Oregon Dept. of Environmental Quality (DEQ)<br/> <input type="checkbox"/> Oregon Dept. of Land Conservation and Development (DLCD)         </p> | <p> <input checked="" type="checkbox"/> Oregon Dept. of State Lands: Wetlands Program<br/> <input checked="" type="checkbox"/> Oregon Dept. of Transportation (ODOT) Region 1<br/> <input type="checkbox"/> ODOT Maintenance Dist. 2A<br/> <input type="checkbox"/> ODOT Rail Division<br/> <input type="checkbox"/> OR Dept. of Revenue         </p> <p><b>Utilities</b></p> <p> <input checked="" type="checkbox"/> Republic Services<br/> <input checked="" type="checkbox"/> Clean Water Services (CWS)<br/> <input checked="" type="checkbox"/> Comcast [cable]*<br/> <input checked="" type="checkbox"/> Frontier Communications [phone]<br/> <input checked="" type="checkbox"/> Northwest Natural [gas]<br/> <input checked="" type="checkbox"/> Portland General Electric (PGE)<br/> <input checked="" type="checkbox"/> TriMet<br/> <input checked="" type="checkbox"/> Tualatin Valley Fire &amp; Rescue<br/> <input checked="" type="checkbox"/> USPS (Washington)<br/> <input type="checkbox"/> USPS (Clackamas)<br/> <input checked="" type="checkbox"/> Wash. Co. Consolidated Communications Agency (WCCCA)         </p> <p><b>Additional Parties</b></p> <p><input checked="" type="checkbox"/> Tualatin Citizen Involvement Organization (CIO)</p> <p><b>*Paper Copies</b></p> |
|---|--|--|

Exhibit B to  
Resolution No. 5358-18

- 1.032: Burden of Proof
- 31.071 Architectural Review Procedure
- 31.074 Architectural Review Application Review Process
- 31.077 Quasi-Judicial Evidentiary Hearing Procedures
- Metro Code 3.09.045 Annexation Review Criteria
- 32.030 Criteria for Review of Conditional Uses
- 33.020 Conditions for Granting a Variance that is not a Sign or a Wireless Communication Facility
- 33.022 Criteria for Granting a Sign Variance
- 33.024 Criteria for Granting a Minor Variance
- 33.025 Criteria for Granting a Variance
- 34.200 Tree Cutting on Private Property without Architectural Review, Subdivision or Partition Approval, or Tree Removal Permit Prohibited
- 34.210 Application for Architectural Review, Subdivision or Partition Review, or Permit
- 34.230 Criteria (tree removal)
- 35.060 Conditions for Granting Reinstatement of Nonconforming Use
- 36.160 Subdivision Plan Approval
- 36.230 Review Process (partitioning)
- 36.330 Review Process (property line adjustment)
- 37.030 Criteria for Review (IMP)
- 40.030 Conditional Uses Permitted (RL)
- 40.060 Lot Size for Conditional Uses (RL)
- 40.080 Setback Requirements for Conditional Uses (RL)
- 41.030 Conditional Uses Permitted (RML)
- 41.050 Lot Size for Conditional Uses (RML)
- 41.070 Setback Requirements for Conditional Uses (RML)
- 42.030 Conditional Uses Permitted (RMH)
- 42.050 Lot Size for Conditional Uses (RMH)
- 42.070 Setback Requirements for Conditional Uses (RMH)
- 43.030 Conditional Uses Permitted (RH)
- 43.060 Lot Size for Conditional Uses (RH)
- 43.090 Setback Requirements for Conditional Uses (RH)
- 44.030 Conditional Uses Permitted (RH-HR)
- 44.050 Lot Size for Conditional Uses (RH-HR)
- 44.070 Setback Requirements for Conditional Uses (RH-HR)
- 49.030 Conditional Uses (IN)
- 49.040 Lot Size for Permitted and Conditional Uses (IN)
- 49.060 Setback Requirements for Conditional Uses (IN)
- 50.020 Permitted Uses (CO)
- 50.030 Central Urban Renewal Plan – Additional Permitted Uses and Conditional Uses (CO)
- 50.040 Conditional Uses (CO)
- 52.030 Conditional Uses (CR)
- 53.050 Conditional Uses (CC)
- 53.055 Central Urban Renewal Area – Conditional Uses (CC)
- 54.030 Conditional Uses (CG)
- 56.030 Conditional Uses (MC)
- 56.045 Lot Size for Conditional Uses (MC)
- 57.030 Conditional Uses (MUCOD)
- 60.040 Conditional Uses (ML)
- 60.041 Restrictions on Conditional Uses (ML)
- 61.030 Conditional Uses (MG)
- 61.031 Restrictions on Conditional Uses (MG)
- 62.030 Conditional Uses (MP)
- 62.031 Restrictions on Conditional Uses (MP)
- 64.030 Conditional Uses (MBP)
- 64.050 Lot Size for Permitted and Conditional Uses (MBP)
- 64.065 Setback Requirements for Conditional Uses (MBP)
- 68.030 Criteria for Designation of a Landmark
- 68.060 Demolition Criteria
- 68.070 Relocation Criteria
- 68.100 Alteration and New Construction Criteria
- 68.110 Alteration and New Construction Approval Process
- 73.130 Standards
- 73.160 Standards
- 73.190 Standards – Single-Family and Multi-Family Uses
- 73.220 Standards
- 73.227 Standards
- 73.230 Landscaping Standards
- 73.300 Landscape Standards – Multi-Family Uses
- 73.310 Landscape Standards – Commercial, Industrial, Public and Semi-Public Uses
- 73.320 Off-Street Parking Lot Landscaping Standards
- 73.320 Off-Street Parking and Loading
- 73.470 Standards
- 73.500 Standards



# City of Tualatin

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## CONDITIONAL USE PERMIT CERTIFICATION OF SIGN POSTING



18"

24"

The applicant shall provide and post a sign pursuant to Tualatin Development Code (TDC) 31.064(2). Additionally, the 18" x 24" sign must contain the application number, and the block around the word "NOTICE" must remain **lime green** composed of the **RGB color values Red 146, Green 208, and Blue 80**. Additionally, the potential applicant must provide a flier (or flyer) box on or near the sign and fill the box with brochures reiterating the meeting info and summarizing info about the potential project, including mention of anticipated land use application(s). Staff has a Microsoft PowerPoint 2007 template of this sign design available through the Planning Division homepage at < [www.tualatinoregon.gov/planning/land-use-application-sign-templates](http://www.tualatinoregon.gov/planning/land-use-application-sign-templates)>.

As the applicant for the TVF+R Station 39 (CUP 17-0002) project, I hereby certify that on this day, January 4, 2018 sign(s) was/were posted on the subject property in accordance with the requirements of the Tualatin Development Code and the Community Development Department - Planning Division.

Applicant's Name: Clinton Dorse, Angelo Planning Group  
(PLEASE PRINT)

Applicant's Signature: [Handwritten Signature]

Date: 1/4/18



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PERMIT CUP-17-0002  
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## Tualatin Valley Fire & Rescue Station #39 Rivergrove

Transportation Impact Study  
Tualatin, Oregon

**Date:**

December 7, 2017

**Prepared for:**

Tualatin Valley Fire & Rescue

**Prepared by:**

Daniel Stumpf, EI

Todd Mobley, PE



RENEWS: 12/31/18



LANCASTER  
ENGINEERING

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### ***Executive Summary***

1. The Tualatin Valley Fire & Rescue Station #39 – Rivergrove, has been proposed for development on a property located near 7100 SW McEwan Road in Tualatin, Oregon.
2. The trip generation calculations show that the proposed development is projected to generate twelve site trips during the morning peak hour and four site trips during the evening peak hour.
3. No significant trends or crash patterns were identified at any of the study intersections. Accordingly, no specific safety mitigation is recommended.
4. Adequate sight distance is available at both site accesses to ensure safe operation of each proposed intersection along SW McEwan Road. No sight distance mitigation is necessary or recommended.
5. Left-turn lane warrants are not projected to be met at either site access intersection under any of the analysis scenarios through the 2019 build-out year. No new turn lanes are necessary or recommended.
6. Due to insufficient main and side-street traffic volumes, traffic signal warrants are not projected to be met at the intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road under any of the analysis scenarios.
7. Based on a turning-movement analysis, a driveway width of 24 feet is sufficient to accommodate entering emergency response vehicles at the north site access intersection.
8. All study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.



## ***Project Description and Location***

### ***Introduction***

The Tualatin Valley Fire & Rescue (TVF&R) Station #39 – Rivergrove, has been proposed for development on a property located near 7100 SW McEwan Road in Tualatin, Oregon. This report addresses the impacts of the proposed development on the nearby street system. The study includes safety and capacity/level-of-service analyses at the following intersections:

- SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road;
- Proposed north site access at SW McEwan Road;
- Proposed south site access at SW McEwan Road; and
- SW 65<sup>th</sup> Avenue at SW McEwan Road.

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

### ***Project and Location Description***

The project site is located southwest of SW McEwan Road and east of Interstate 5 (I-5) in Tualatin, Oregon. The subject site is surrounded by a mix of land-uses, with a medical clinic to the north, a U-Haul facility to the south, and self-storage facilities to the east. Two notable developments within a half-mile walking/biking distance of the site include the Meridian Square Shopping Mall to the north and River Grove Elementary School to the east.

Access to the site will be provided via two driveways along SW McEwan Road: a two-way access to the north and an emergency response vehicle egress access to the south.

### ***Vicinity Streets***

The proposed development is expected to predominantly impact three nearby vicinity roadways: SW Lower Boones Ferry Road, SW McEwan Road, and SW 65<sup>th</sup> Avenue. Table 1 provides a description of each of the vicinity roadways.

Table 1 – Vicinity Roadway Descriptions

Roadway	Jurisdiction	Functional Classification	Cross-Section	Speed	On-street Parking	Bicycle Lanes	Curbs	Sidewalks
SW Lower Boones Ferry Road	Clackamas County	Arterial	5 to 8 Lanes	35 mph Posted	Not Permitted	Both Sides	Both Sides	Both Sides
SW McEwan Road	City of Tualatin	Major Collector/Local Street	2 to 3 Lanes	25/30 mph Posted	Partially Permitted	Partial Both Sides	Partial Both Sides	Partial Both Sides
SW 65th Avenue	City of Tualatin	Neighborhood Collector/Major Collector	2 to 4 Lanes	25/30 mph Posted	Permitted	None	Partial Both Sides	Partial Both Sides

### Study Intersections

The intersection of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road is a four-legged intersection that is controlled by a traffic signal. The northbound approach has one left-turn lane and one shared lane for all turning-movements. The southbound approach has one shared left-turn/through lane and one right-turn lane served with permitted/overlap phasing. The northbound and southbound approaches operate under split phasing. The eastbound approach has one left-turn lane served with protected phasing, two through lanes, one right-turn lane served with permitted/overlap phasing, and a bicycle lane situated in between the outermost through and right-turn lanes. The westbound approach has one left-turn lane served with protected phasing, two through lanes, one shared through/right-turn lane, and a bicycle lane to the right of the outermost standard travel lane. Crosswalks are marked across all four intersection legs.

The intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road is a four-legged intersection that is all-way stop-controlled. All four intersection approaches each have one shared lane for all turning-movements. Crosswalks are unmarked across all four intersection legs.

A vicinity map displaying the project site, vicinity streets, and the study intersections with their associated lane configurations is shown in Figure 1 on page 5.

### Transit

The project site is located near two transit lines that have stops within a half-mile walking/biking distance north of the site, just east of the intersection of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road. Complete sidewalks and adequate crossing measures at intersections are available between the project site and each of the transit stop locations allowing for safe and comfortable travel for transit users.

TriMet bus line #36 – *South Shore*, provides service between Tualatin Park & Ride and Portland City Center, with notable stops near Lake Oswego Transit Center, Lake Oswego Library, and Johns Landing. Weekday service is scheduled from approximately 7:00 AM to 7:15 PM and has headways of approximately 30 to 100 minutes.

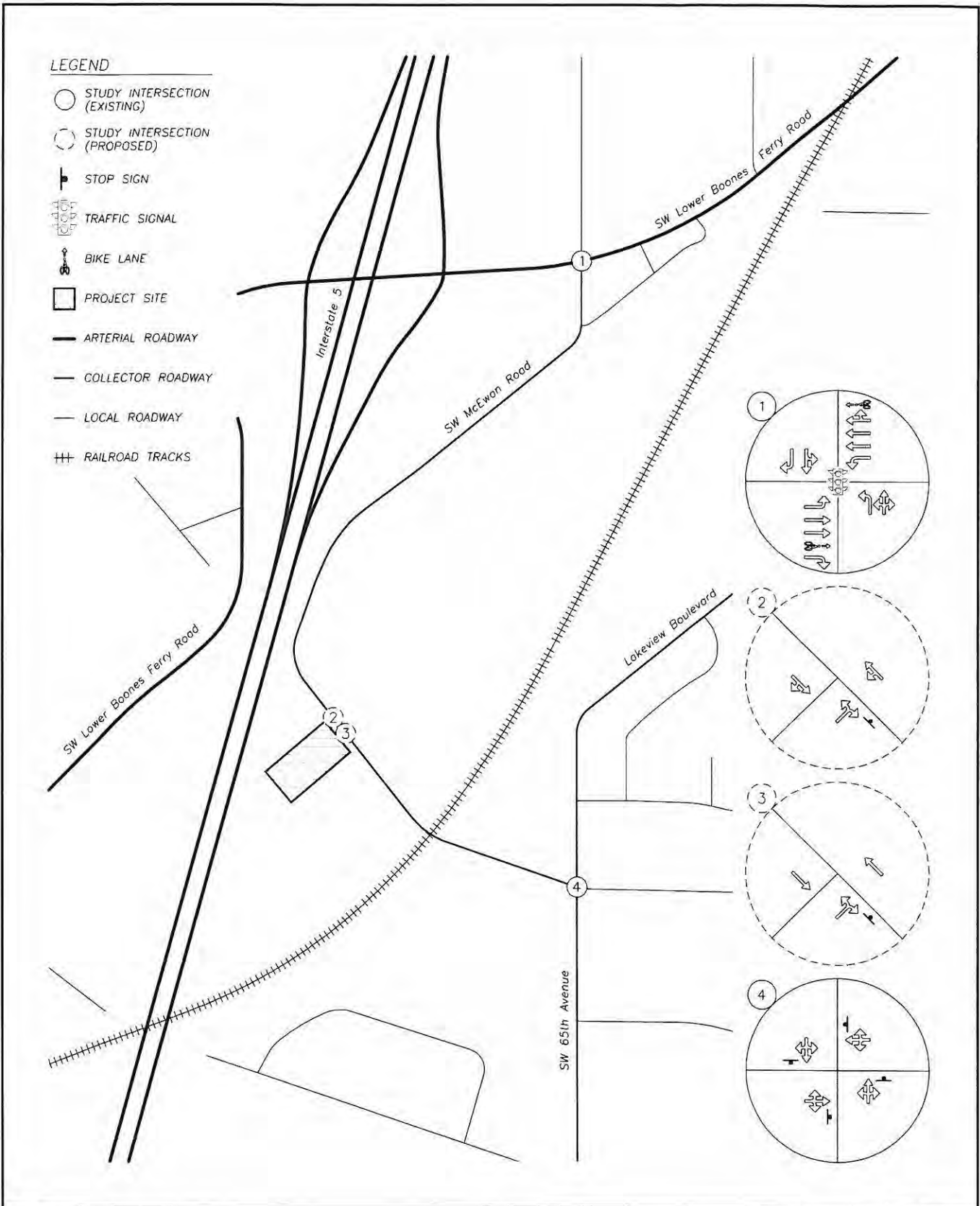
TriMet bus line #37 – *Lake Grove*, provides service between Tualatin Park & Ride and Lake Oswego Transit Center, with notable stops near Lake Oswego High School and Lake Oswego Library. Weekday service is scheduled from approximately 7:00 AM to 5:30 PM and has headways of approximately 50 to 100 minutes.

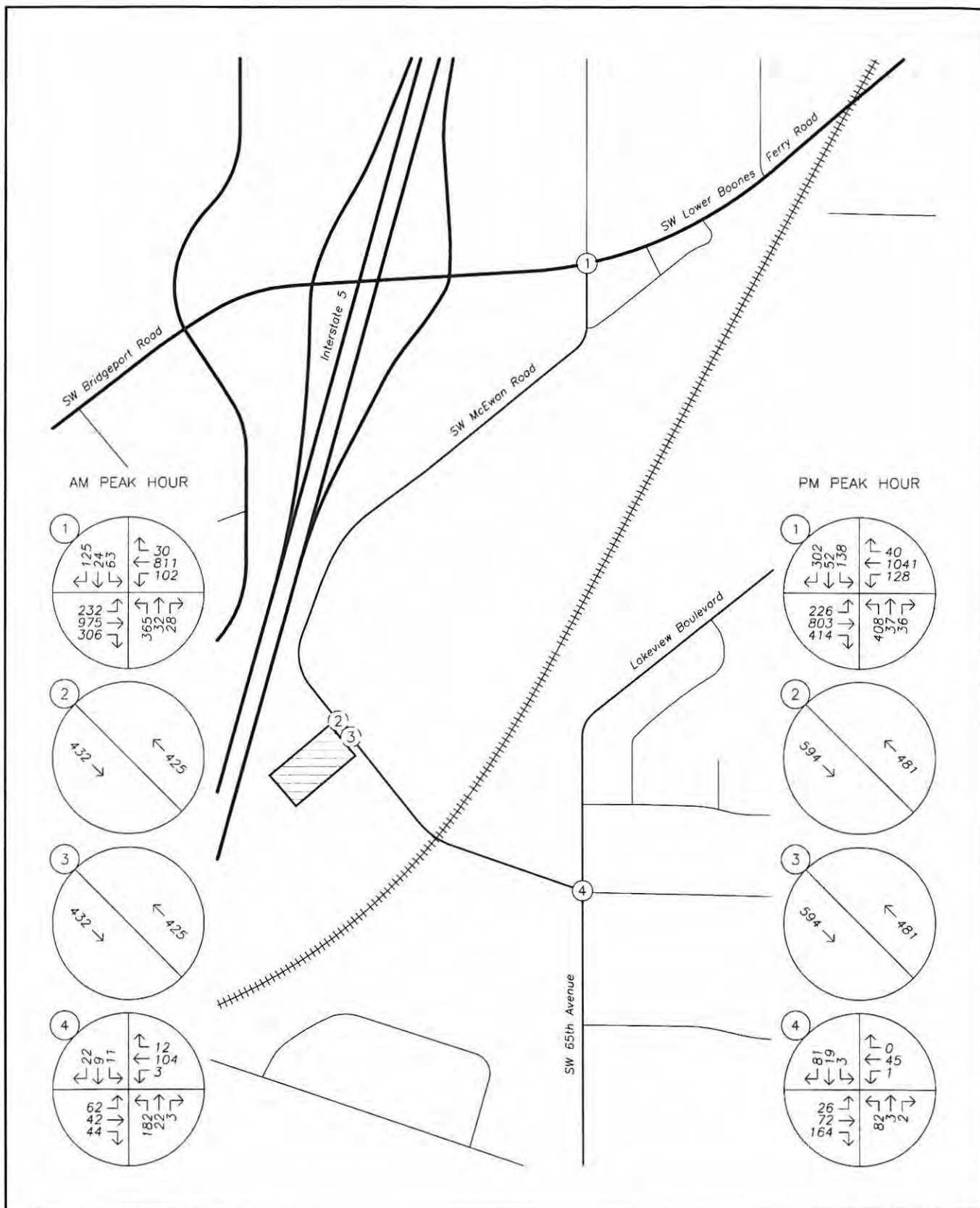
### *Traffic Counts*

Traffic counts were conducted at the intersection of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road on Wednesday, November 15<sup>th</sup>, 2017 and at the intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road on Tuesday, November 28<sup>th</sup>, 2017, from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM. Data was used from each intersection's respective morning and evening peak hours.

To determine through volumes along SW McEwan Road at the site access locations, traffic volumes were balanced with the intersections of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road and at SW 65<sup>th</sup> Avenue at SW McEwan Road. The highest directional volumes to/from each intersection were utilized, which subsequently provides a conservative assessment of operation at the site access intersections.

Figure 2 on page 6 shows the existing morning and evening peak hour traffic volumes at the study intersections.





TRAFFIC VOLUMES  
Existing Conditions  
AM & PM Peak Hours



FIGURE  
2

PAGE  
6

**Site Trips**

*Trip Generation*

No comparable land-use category exists in the *TRIP GENERATION MANUAL*<sup>1</sup> for fire stations; therefore, the size and operation of the facility was examined in order to best estimate the trip generation of the station. The trip generation calculations shown below are supported by trip data collected at other similar TVF&R stations. The proposed Station #39 is designed for a crew size of six full-time employees. Shifts for full-time employees are 24 hours in duration and shift changes will occur at 7:00 AM. The majority of site trips during the morning peak hour are typically generated from employees. Additional trips corresponding to visitors, deliveries, and emergency response services are also accounted for.

It is estimated that the proposed station will generate a total of twelve morning peak hour site trips, with six employees entering and exiting the site. During the evening peak hour, the site is expected to generate a nominal number individual employee trips to the site; however, two trips entering and exiting the site were included to account for visitors, deliveries, and other miscellaneous traffic. Usage of the TVF&R's Community Room will typically occur after the evening peak hour; therefore, trips generated by the Community Room will increase site's total daily trip generation while not increasing morning or evening peak hour trip generation.

The trip generation estimates of the proposed TVF&R facility are summarized in Table 2 below.

Table 2 – Trip Generation Summary

	Size	Morning Peak Hour			Evening Peak Hour			Weekday Total
		Enter	Exit	Total	Enter	Exit	Total	
<b>Proposed TVF&amp;R #39</b>								
Employee Shift Change	6 Employees	6	6	12	0	0	0	12
Community Room	15 People	0	0	0	0	0	0	20
Emergency Calls	4 Events	0	0	0	0	0	0	8
Non-Emergency Calls	2 Events	0	0	0	0	0	0	4
Visitors, Deliveries, etc	5 People	0	0	0	2	2	4	10
<b>Total</b>		<b>6</b>	<b>6</b>	<b>12</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>54</b>

<sup>1</sup> Institute of Transportation Engineers (ITE), *TRIP GENERATION MANUAL*, 9<sup>th</sup> Edition, 2012.

### *Trip Distribution*

TVF&R Station #39 – Rivergrove will predominately serve residents in the surrounding areas of Tualatin, Lake Oswego, and unincorporated Washington and Clackamas Counties. Areas within the site vicinity, particularly the neighborhoods to the east and northeast of the site, generate a significant number of emergency response calls. Non-emergency trips, such as employee commuting, visitors, deliveries, etc, are more likely to travel to/from SW Lower Boones Ferry Road and I-5.

The directional distribution of peak hour site trips to/from the proposed development was estimated based on locations of likely trip destinations, locations of major transportation facilities within the site vicinity, and existing travel patterns at study intersections.

The following trip distribution was estimated and used for analysis:

- Approximately 60 percent of site trips will travel to/from the west along SW Lower Boones Ferry Road;
- Approximately 15 percent of site trips will travel to/from the east along SW Lower Boones Ferry Road;
- Approximately 10 percent of site trips will travel to/from the east along SW McEwan Road;
- Approximately 10 percent of site trips will travel to/from the south along SW 65<sup>th</sup> Avenue; and
- Approximately 5 percent of site trips will travel to/from the north along SW 65<sup>th</sup> Avenue.

The proposed development will be served by two accesses along SW McEwan Road. The north site access will serve inbound emergency response vehicles and as a two-way access for passenger vehicles while the south site access will serve outbound emergency response vehicles only. Based on the projected trips generated, approximately 20 percent of site trips will result from emergency/non-emergency calls to the station; accordingly, the south access may serve approximately 20 percent of exiting trips throughout a typical day. However, since calls to the station are expected to be uncommon, will occur irregularly, and cannot be anticipated, no response calls were projected during either peak hour. Therefore, all site trips generated during the morning and evening peak hours will utilize the northern access.

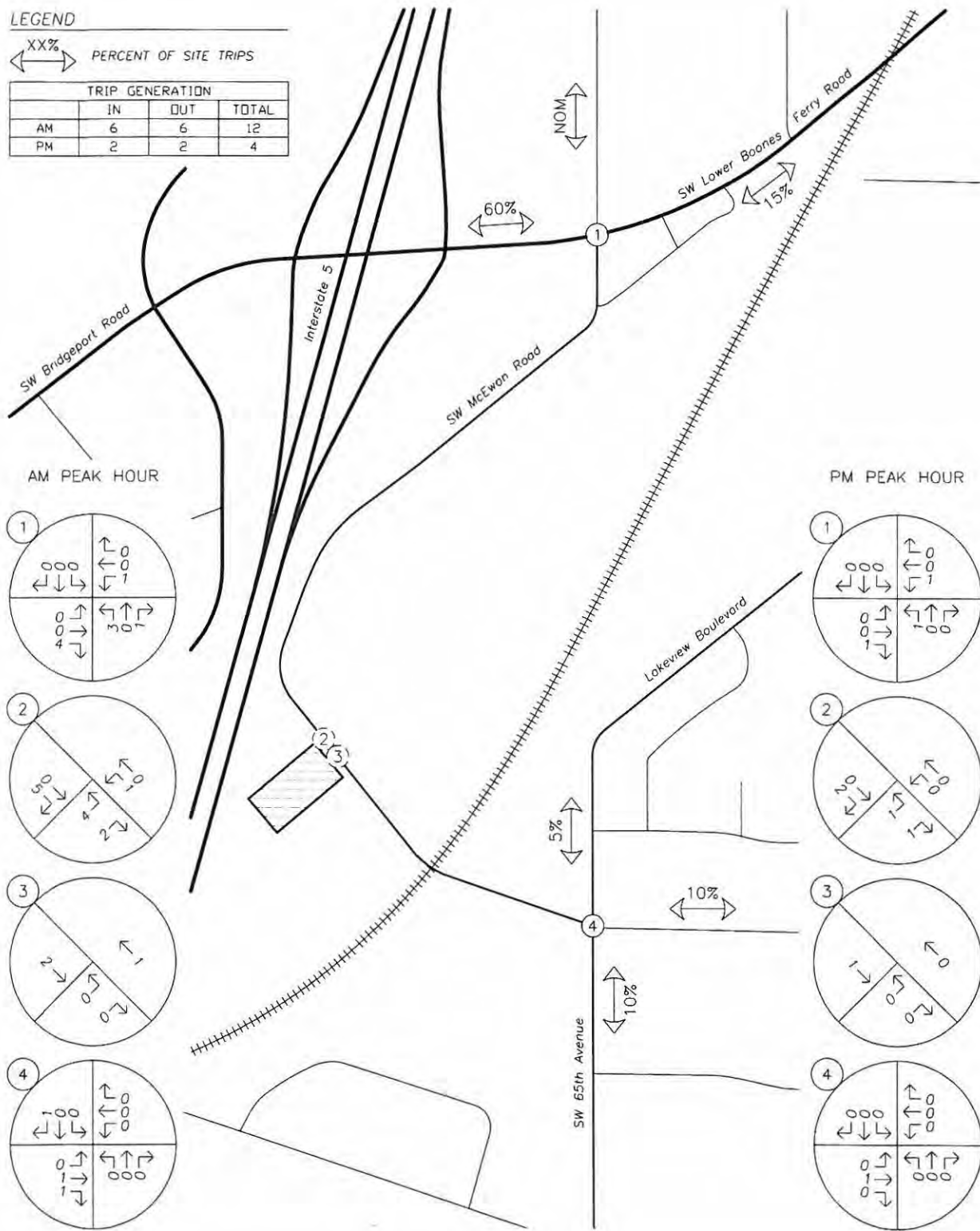
The trip assignment for the site trips generated by the proposed development during the morning and evening peak hours are shown in Figure 3 on page 9.



LEGEND

XX% PERCENT OF SITE TRIPS

TRIP GENERATION			
	IN	OUT	TOTAL
AM	6	6	12
PM	2	2	4



SITE TRIP DISTRIBUTION & ASSIGNMENT  
Proposed Development Plan - Site Trips  
AM & PM Peak Hours



FIGURE  
3

PAGE  
9



### ***Future Traffic Volumes***

#### ***Background Volumes***

To provide analysis of the impact of the proposed development on the nearby transportation facilities, an estimate of future traffic volumes is required. In order to calculate the future traffic volumes at the study intersections, a compounded growth rate of two percent per year for an assumed build-out condition of two years was applied to the measured existing traffic volumes to approximate year 2019 background conditions.

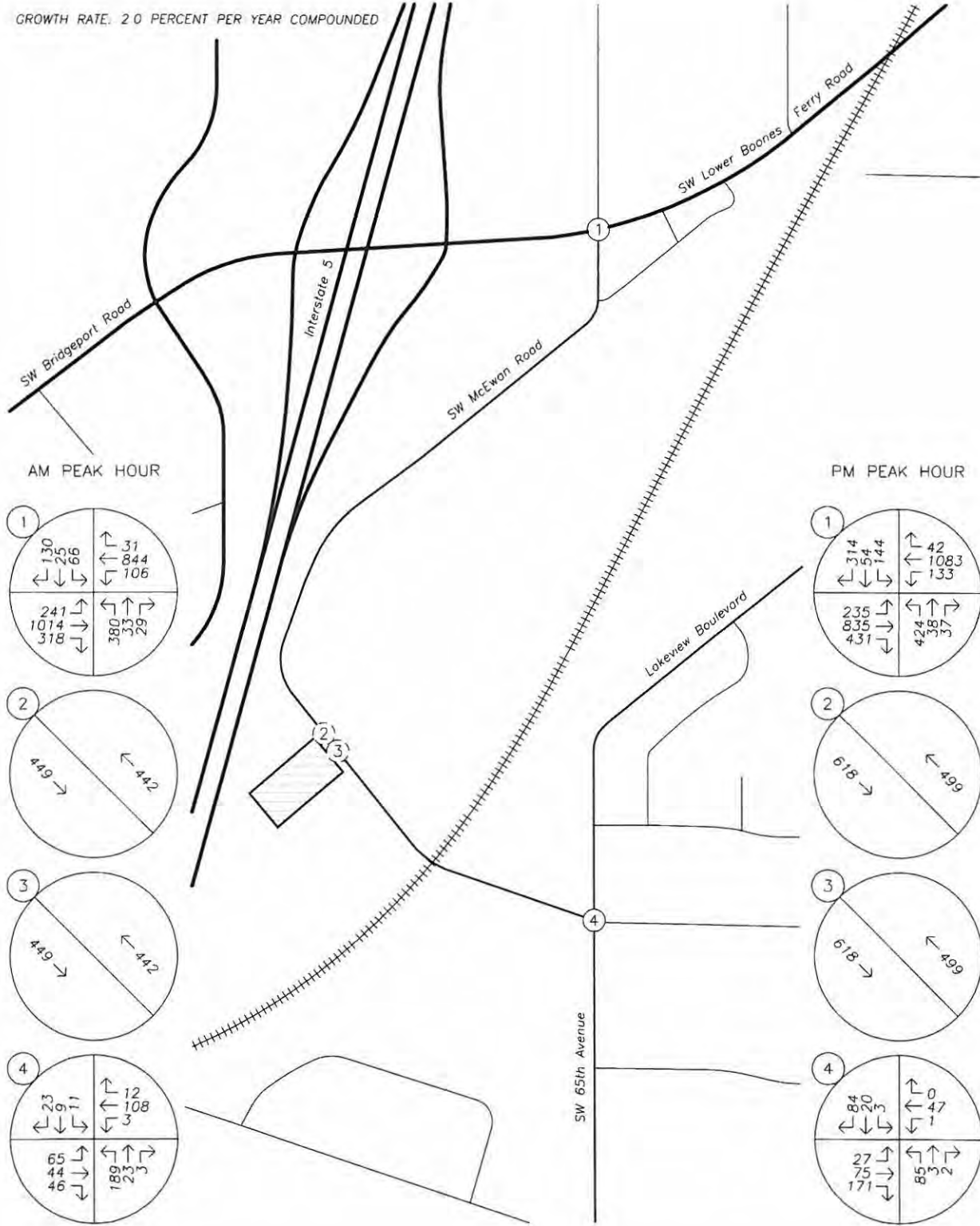
Figure 4 on page 11 shows the projected year 2019 background traffic volumes at the study intersections during the morning and evening peak hours.

#### ***Background Volumes plus Site Trips***

Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2019 background traffic volumes to obtain the expected 2019 background volumes plus site trips.

Figure 5 on page 12 shows the projected year 2019 peak hour background traffic volumes plus proposed development site trips at the study intersections during the morning and evening peak hours.

GROWTH RATE: 2.0 PERCENT PER YEAR COMPOUNDED

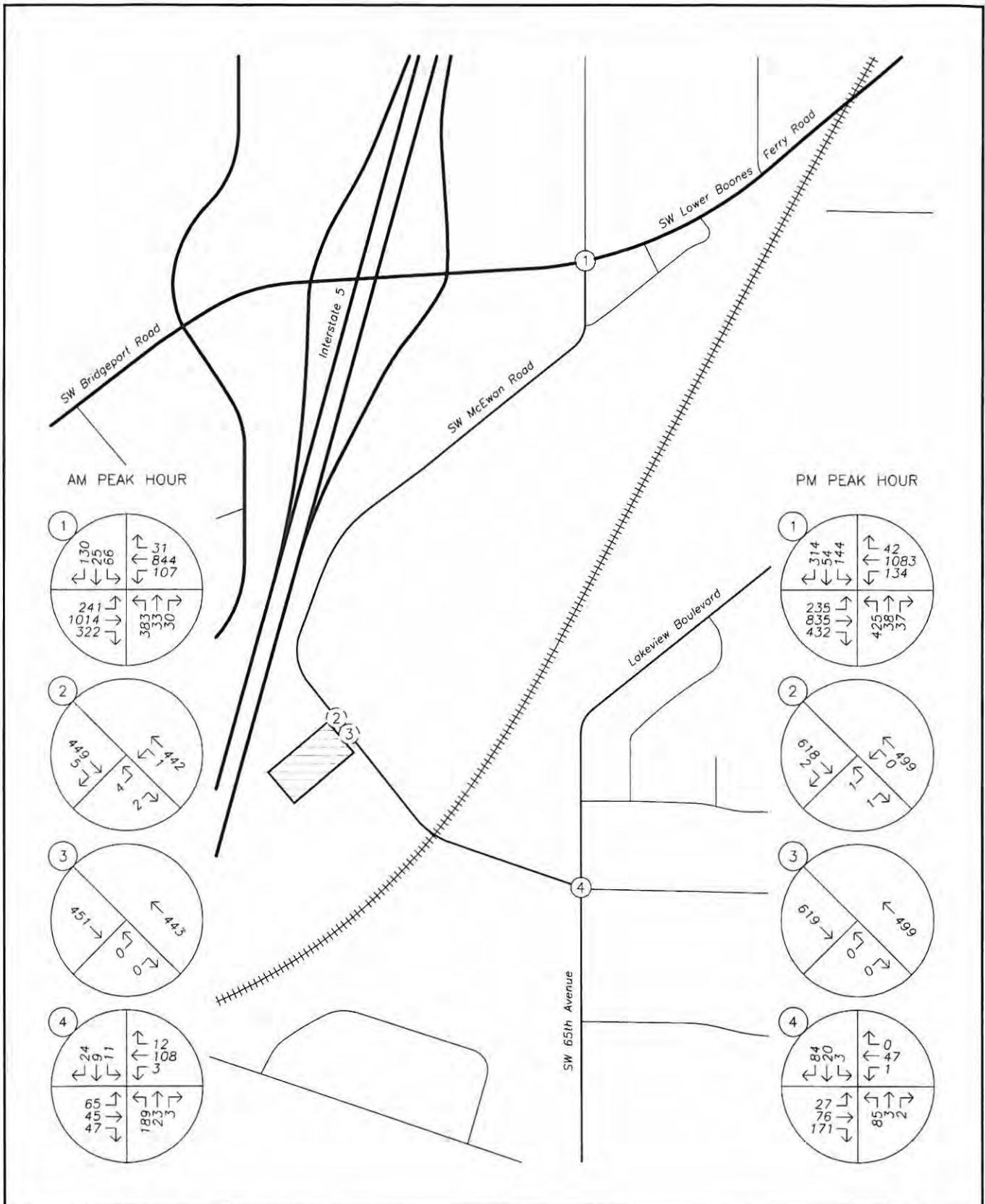


TRAFFIC VOLUMES  
Year 2019 Background Conditions  
AM & PM Peak Hours



FIGURE  
4

PAGE  
11



TRAFFIC VOLUMES  
Year 2019 Background Conditions plus Site Trips  
AM & PM Peak Hours



FIGURE  
5

PAGE  
12



## ***Safety Analysis***

### ***Crash Data Analysis***

Using data obtained from the Oregon Department of Transportation's (ODOT) Crash Analysis and Reporting Unit, a review of the most recent available five years of crash history (from January 2011 to December 2015) at the study intersections was performed. The crash data was evaluated based on the number of crashes, the type of collisions, the severity of the collisions, and the resulting crash rate for the intersection. Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated using the common assumption that traffic counted during the evening peak period represents 10 percent of average daily traffic (ADT) at the intersection. Crash rates in excess of one to two crashes per million entering vehicles (CMEV) may be indicative of design deficiencies and therefore require a need for further investigation and possible mitigation.

The intersection of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road had ten reported crashes during the analysis period. The crashes consisted of seven rear-end collisions, one angle-type collision, one fixed-object collision, and one turning-movement collision. Of the reported crashes, five were classified as "Property Damage Only" (*PDO*), four were classified as "Possible Injury – Complaint of Pain" (*Injury C*), and one was classified as "Non-Incapacitating Injury" (*Injury B*). The crash rate at the intersection was calculated to be 0.15 CMEV.

The intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road had one reported crash during the analysis period. The crash was a turning-movement collision that was classified as *PDO*. The crash rate at the intersection was calculated to be 0.11 CMEV.

Based on the most recent five years of available crash data, no significant trends or crash patterns were identified at any of the study intersections. Accordingly, no specific safety mitigation is recommended.

### ***Sight Distance Analysis***

Sight distance was examined for the site access intersections located along SW McEwan Road. Intersection sight distance was measured and evaluated in accordance with the standards established in *A Policy on Geometric Design of Highways and Streets*<sup>2</sup>. According to AASHTO, the driver's eye is assumed to be 15 feet from the near edge of the nearest travel lane of the intersecting street and at a height of 3.5 feet above the minor-street approach pavement. The vehicle driver's eye-height along the major-street approach is assumed to be 3.5 feet above the cross-street pavement.

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<sup>2</sup> American Association of State Highway and Transportation Officials (AASHTO). *A Policy on Geometric Design of Highways and Streets*, 6<sup>th</sup> Edition, 2011.

#### *North Site Access*

The northernmost site access will serve two-way traffic, where vehicles exiting the site will consist of predominately passenger cars. Therefore, the minimum recommended intersection sight distance was calculated assuming a time gap of 7.5 seconds for a minor-street approaching passenger car. Based on a posted speed of 30 mph, the minimum recommended intersection sight distance for a passenger car turning onto a three-lane roadway was calculated to be 335 feet.

Intersection sight distance at the north site access was measured to be 450 feet to the north, limited by a building located north of the site along the eastern side of SW McEwan Road. Sight distance to the south was measured to be in excess of 550 feet. Based on the measurements conducted at the north site access, adequate sight distance is available to ensure safe operation at the proposed intersection while maintaining unimpeded flow of traffic along SW McEwan Road.

#### *South Site Access*

The southernmost site access will serve as a one-way egress access for emergency response vehicles only. Typically, it is expected that when an emergency vehicle exits the site, lights and possibly sirens will be active. In these instances, interrupting the flow of traffic on the major-street is the intent of the emergency vehicle and accordingly maintaining adequate intersection sight distance would generally not be applicable at this access. However, in the event that a non-emergency occurs but requires an emergency response vehicle, adequate intersection sight distance would be necessary at the access.

Since the access will serve vehicles larger than a passenger car, the minimum recommended intersection sight distance was calculated assuming a time gap of 9.5 for a minor-street approaching single-unit truck. Based on a posted speed of 30 mph, the minimum recommended intersection sight distance for a single-unit truck was calculated to be 420 feet.

The south egress access will serve emergency response vehicles, which will likely have drivers seated at a higher position than in regular passenger vehicles. Therefore, in addition to utilizing the standard 3.5-foot high driver's eye height on the minor-street approach, a 7.6-foot truck eye height was also used to measure intersection sight distance at the access.

Intersection sight distance at the south site access was measured to be 492 feet to the north, limited by a building located north of the site along the eastern side of SW McEwan Road. Sight distance to the south was measured to be in excess of 550 feet. Based on the measurements conducted at the south site access, adequate sight distance is available to ensure safe operation at the proposed intersection while maintaining unimpeded flow of traffic along SW McEwan Road.

Based on the analysis, adequate sight distance is available at both site accesses to ensure safe operation of each proposed intersection along SW McEwan Road. No sight distance mitigation is necessary or recommended.



### *Warrant Analysis*

Left-turn and traffic signal warrants were examined for the study intersections where such treatments would be applicable.

A left-turn refuge lane is primarily a safety consideration for the major-street, removing left-turning vehicles from the through traffic stream. The left-turn lane warrants used were developed from the National Cooperative Highway Research Project's (NCHRP) Report 457. Turn lane warrants were evaluated based on the number of advancing and opposing vehicles as well as the number of turning vehicles, the travel speed, and the number of through lanes.

Left-turn lane warrants are not projected to be met at the north site access intersection under any of the analysis scenarios through the 2019 build-out year. Since the south site access will be egress only, left-turn lanes are not applicable at the proposed intersection. Accordingly, no new turn lanes are necessary or recommended.

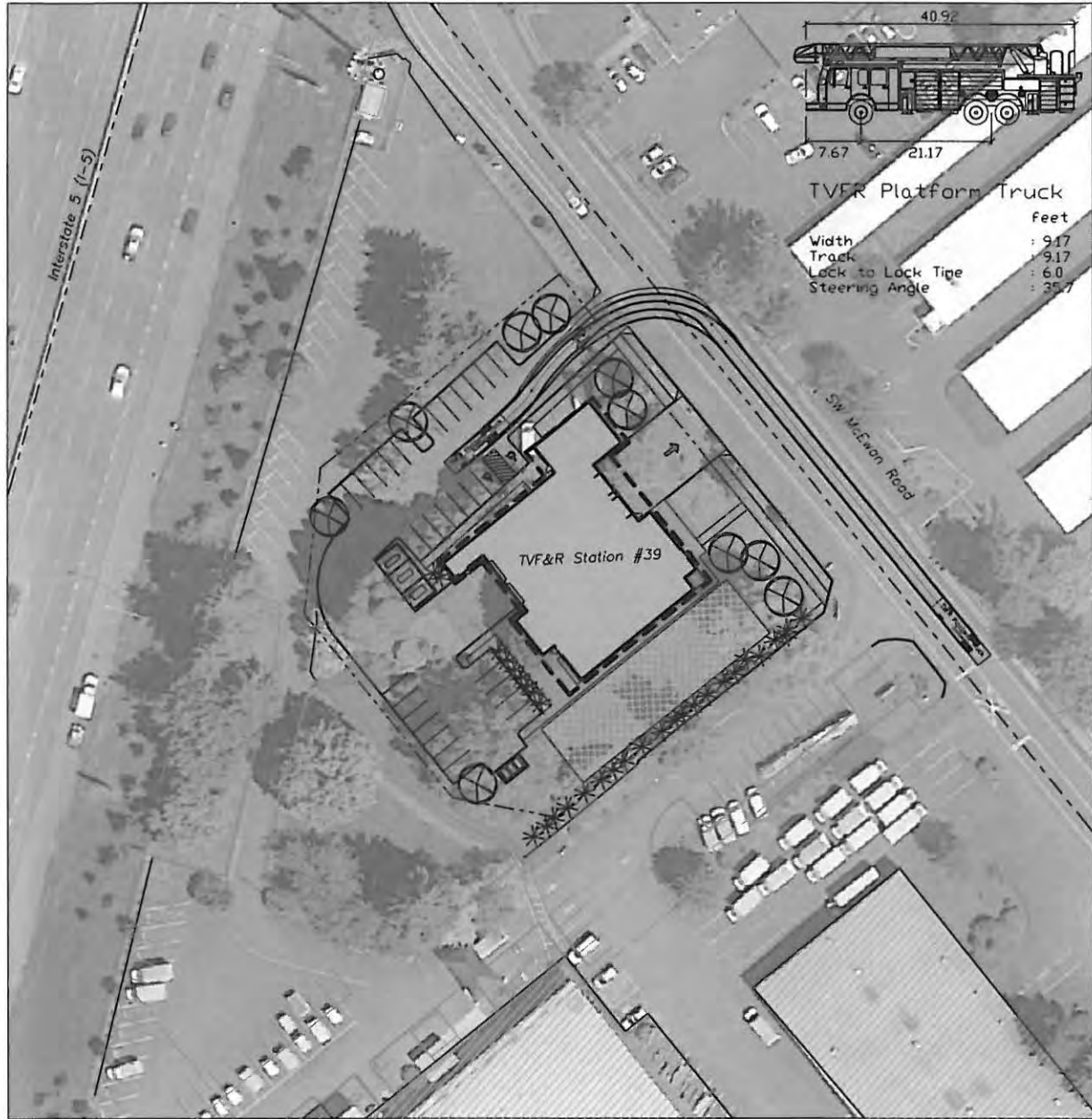
Traffic signal warrants were examined for the unsignalized study intersections to determine whether the installation of any new traffic signal will be warranted at the intersections upon completion of the proposed development. Due to insufficient main and side-street traffic volumes, traffic signal warrants are not projected to be met at the intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road under any of the analysis scenarios.

### *Driveway Width*

To demonstrate an access width of 24 feet is sufficient to serve emergency response vehicles entering the site at the north access, a turning-movement analysis was conducted using AutoTurn software. A custom design vehicle, modeled after a standard TVF&R emergency response vehicle, was created and used. Analysis scenarios examined include the following:

- A northbound left-turning vehicle entering the north access; and
- A southbound right-turning vehicle entering the north access.

Based on the turning-movement analysis, a driveway width of 24 feet is sufficient to accommodate entering emergency response vehicles at the north site access intersection. Diagrams showing the turning-movements for each analysis scenario are shown in Figure 6 on page 16 and Figure 7 on page 17 for northbound and southbound entering vehicles, respectively.



TURNING MOVEMENT ANALYSIS  
North Access – Northbound Entering Vehicle  
Custom TVF&R Design Vehicle



FIGURE  
6

PAGE  
16





TURNING MOVEMENT ANALYSIS  
North Access – Southbound Entering Vehicle  
Custom TVF&R Design Vehicle



FIGURE  
7

PAGE  
17

## **Operational Analysis**

### *Capacity Analysis*

A capacity and delay analysis was conducted for each of the study intersections per the signalized and unsignalized intersection analysis methodologies in the *HIGHWAY CAPACITY MANUAL*<sup>3</sup> (HCM). The level of service (LOS) of an intersection can range from LOS A, which indicates very little or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume to capacity (v/c) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

The study area includes intersections located within multiple jurisdictions, including the City of Tualatin, and Clackamas County. The following is a description of each jurisdictional standard

- The City of Tualatin standards require intersections operate at LOS E or better.
- Per Table 5-2a and Map 4-8 of Clackamas County's Comprehensive Plan, Clackamas County standards require intersections operate with a v/c ratio of 0.99 or less.

For both LOS and delay related to the analysis of unsignalized intersections, the reported results apply to the worst movement.

The intersection of SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road operates at LOS C with v/c ratios of 0.81 or less during the morning peak hour and at LOS D with v/c ratios of 0.81 or less during the evening peak hour or all analysis scenarios.

Upon build-out of the proposed development, the north site access intersection at SW McEwan Road is projected to operate at LOS C with v/c ratios of 0.02 or less during the morning and evening peak hours.

Upon build-out of the proposed development, the south site access intersection at SW McEwan Road is projected to operate at LOS B with a v/c ratio of 0.01 during the morning peak hour and at LOS C with a v/c ratio of 0.01 during the evening peak hour.

The intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road currently operates at LOS A during the morning and evening peak hours. Under year 2019 background conditions, the intersection is projected to operate at LOS B during the morning peak hour and at LOS A during the evening peak hour.

The v/c, delay, and LOS results of the capacity analysis are shown in Table 3 for the morning and evening peak hours. The reported results are generally based on the analysis methodologies provided in the 2010 HCM; however, for intersections where the 2010 methodology is unable to determine intersection capacity/delay, such as SW 65<sup>th</sup> Avenue at SW Lower Boones Ferry Road due to the northbound shared lane

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<sup>3</sup> Transportation Research Board, *HIGHWAY CAPACITY MANUAL 2000* and *HIGHWAY CAPACITY MANUAL 2010*.

configuration, operation was evaluated using the HCM 2000 methodologies. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

Table 3 – Capacity Analysis Summary

	Morning Peak Hour			Evening Peak Hour		
	LOS	Delay (s)	v/c	LOS	Delay (s)	v/c
<b>SW 65th Ave at SW Lower Boones Ferry Rd</b>						
2017 Existing Conditions	C	31	0.78	D	35	0.78
2019 Background Conditions	C	33	0.81	D	42	0.81
2019 Background plus Site Conditions	C	33	0.81	D	42	0.81
<b>North Site Access at SW McEwan Rd</b>						
2019 Background plus Site Conditions	C	16	0.02	C	18	0.01
<b>South Site Access at SW McEwan Rd</b>						
2019 Background plus Site Conditions	B	15	0.01	C	18	0.01
<b>SW 65th Ave at SW McEwan Rd</b>						
2017 Existing Conditions	A	10	-	A	9	-
2019 Background Conditions	B	10	-	A	9	-
2019 Background plus Site Conditions	B	10	-	A	9	-

Based on the results of the operational analysis, all study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.



### ***Conclusions***

No significant trends or crash patterns were identified at any of the study intersections. Accordingly, no specific safety mitigation is recommended.

Adequate sight distance is available at both site accesses to ensure safe operation of each proposed intersection along SW McEwan Road. No sight distance mitigation is necessary or recommended.

Left-turn lane warrants are not projected to be met at either site access intersection under any of the analysis scenarios through the 2019 build-out year. No new turn lanes are necessary or recommended.

Due to insufficient main and side-street traffic volumes, traffic signal warrants are not projected to be met at the intersection of SW 65<sup>th</sup> Avenue at SW McEwan Road under any of the analysis scenarios.

Based on a turning-movement analysis, a driveway width of 24 feet is sufficient to accommodate entering emergency response vehicles at the north site access intersection.

All study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.

1e

*Appendix*





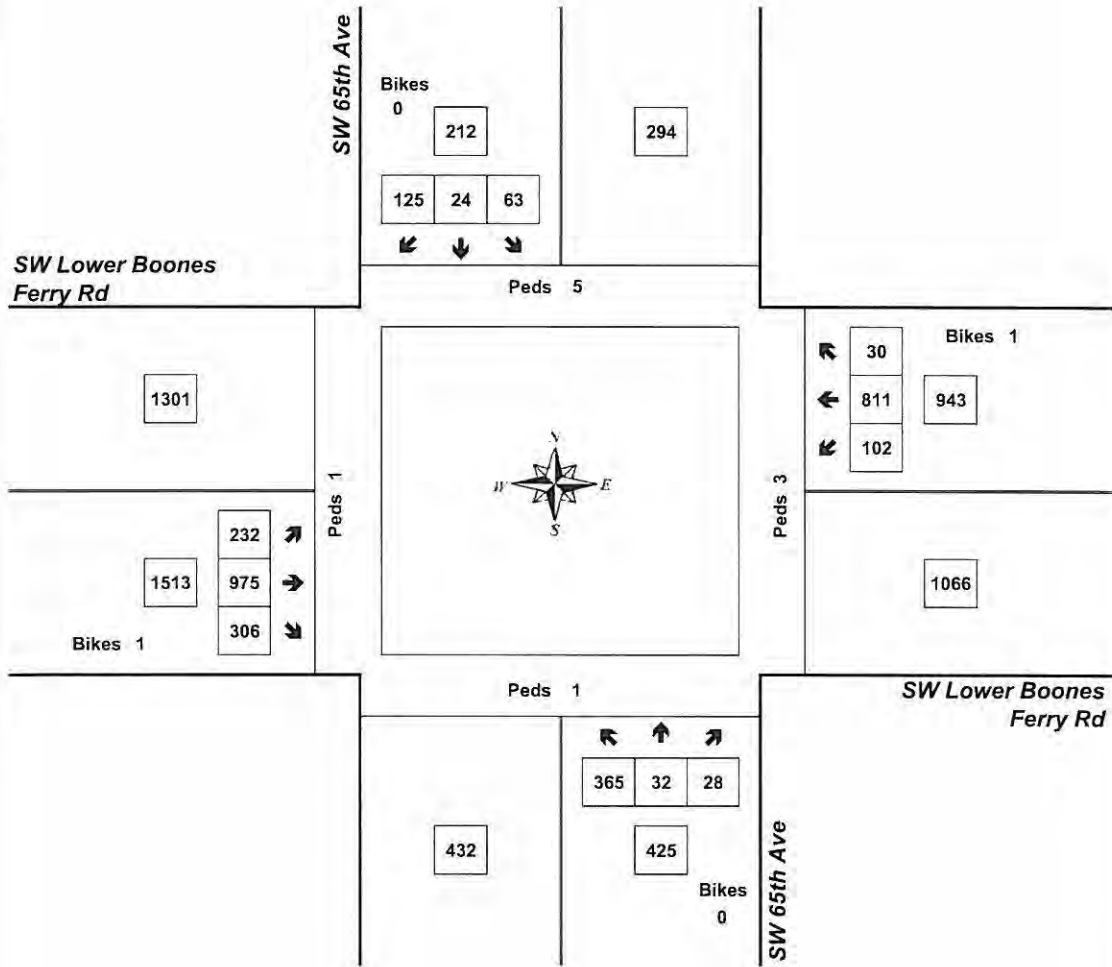
Peak Hour Summary



Clay Carney  
(503) 833-2740

SW 65th Ave & SW Lower Boones Ferry Rd

7:55 AM to 8:55 AM  
Wednesday, November 15, 2017



Approach	PHF	HV%	Volume
EB	0.93	4.8%	1,513
WB	0.86	3.8%	943
NB	0.78	2.6%	425
SB	0.75	3.3%	212
<b>Intersection</b>	<b>0.92</b>	<b>4.1%</b>	<b>3,093</b>

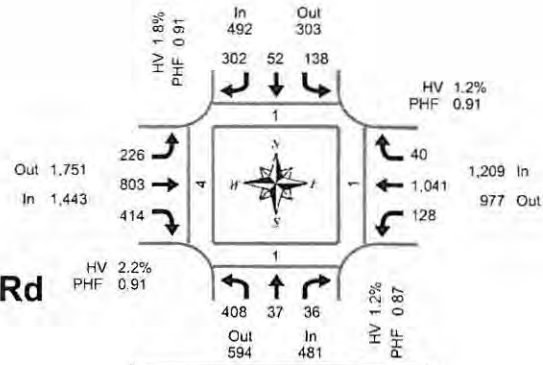
Count Period: 7:00 AM to 9:00 AM



**Total Vehicle Summary**



Clay Carney  
(503) 833-2740



**SW 65th Ave & SW Lower Boones Ferry Rd**

Wednesday, November 15, 2017

4:00 PM to 6:00 PM

**Peak Hour Summary**  
4:20 PM to 5:20 PM

**15-Minute Interval Summary**

4:00 PM to 6:00 PM

Interval Start Time	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Interval Total	Pedestrians Crosswalk			
	L	T	R	Bikes	L	T	R	Bikes	L	T	R	Bikes	L	T	R	Bikes		North	South	East	West
4:00 PM	72	5	9	0	39	13	103	0	62	206	82	0	22	269	9	0	891	0	1	0	0
4:15 PM	84	9	8	0	47	15	83	0	66	183	97	0	37	249	14	0	892	1	1	0	0
4:30 PM	118	10	9	0	36	11	88	0	40	176	98	0	28	251	9	0	874	0	1	0	1
4:45 PM	92	6	7	0	31	15	75	0	59	232	98	0	33	290	9	0	947	0	0	0	1
5:00 PM	117	11	11	0	27	13	80	0	68	181	99	0	29	236	10	0	882	0	0	1	2
5:15 PM	105	13	6	0	37	17	68	0	50	226	135	0	23	204	11	0	895	0	1	0	1
5:30 PM	114	18	7	0	30	21	60	0	49	178	100	1	13	209	3	0	802	0	1	2	0
5:45 PM	71	12	11	0	22	21	43	0	60	206	99	0	27	256	13	0	841	0	1	0	0
Total Survey	773	84	68	0	269	126	600	0	454	1,585	808	1	212	1,964	78	0	7,024	1	6	3	5

**Peak Hour Summary**

4:20 PM to 5:20 PM

By Approach	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Total	Pedestrians Crosswalk			
	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes	In	Out	Total	Bikes		North	South	East	West
Volume	481	594	1,075	0	492	303	795	0	1,443	1,751	3,194	0	1,209	977	2,186	0	3,625	1	1	1	4
%HV	1.2%				1.8%				2.2%				1.2%				1.7%				
PHF	0.87				0.91				0.91				0.91				0.96				

By Movement	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Total
	L	T	R	Total	L	T	R	Total	L	T	R	Total	L	T	R	Total	
Volume	408	37	36	481	138	52	302	492	226	803	414	1,443	128	1,041	40	1,209	3,625
%HV	1.0%	2.7%	2.8%	1.2%	1.4%	0.0%	2.3%	1.8%	7.5%	1.2%	1.2%	2.2%	0.8%	1.2%	0.0%	1.2%	1.7%
PHF	0.86	0.77	0.75	0.87	0.78	0.87	0.86	0.91	0.83	0.87	0.90	0.91	0.76	0.88	0.59	0.91	0.96

**Rolling Hour Summary**

4:00 PM to 6:00 PM

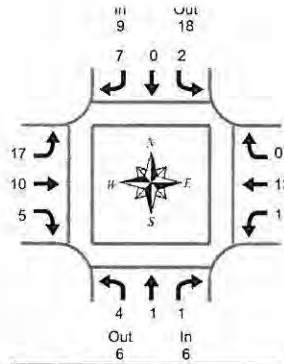
Interval Start Time	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Interval Total	Pedestrians Crosswalk			
	L	T	R	Bikes	L	T	R	Bikes	L	T	R	Bikes	L	T	R	Bikes		North	South	East	West
4:00 PM	366	30	33	0	153	54	349	0	227	797	375	0	120	1,059	41	0	3,604	1	3	0	2
4:15 PM	411	36	35	0	141	54	326	0	233	772	392	0	127	1,026	42	0	3,595	1	2	1	4
4:30 PM	432	40	33	0	131	56	311	0	217	815	430	0	113	981	39	0	3,598	0	2	1	5
4:45 PM	428	48	31	0	125	66	283	0	226	817	432	1	98	939	33	0	3,526	0	2	3	4
5:00 PM	407	54	35	0	116	72	251	0	227	791	433	1	92	905	37	0	3,420	0	3	3	3

### Heavy Vehicle Summary



Clay Carney  
(503) 833-2740

Out 24  
In 32



**Peak Hour Summary**  
4:20 PM to 5:20 PM

### SW 65th Ave & SW Lower Boones Ferry Rd

Wednesday, November 15, 2017  
4:00 PM to 6:00 PM

#### Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Interval Start Time	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Interval Total
	L	T	R	Total	L	T	R	Total	L	T	R	Total	L	T	R	Total	
4:00 PM	0	0	0	0	0	0	2	2	13	7	3	23	0	5	0	5	30
4:15 PM	3	0	1	4	2	0	1	3	5	1	3	9	1	2	0	3	19
4:30 PM	1	0	0	1	0	0	3	3	6	2	0	8	0	1	0	1	13
4:45 PM	1	0	0	1	0	0	2	2	1	4	0	5	0	5	0	5	13
5:00 PM	0	1	0	1	0	0	1	1	4	3	2	9	0	4	0	4	15
5:15 PM	3	0	0	3	1	0	0	1	2	1	1	4	0	2	0	2	10
5:30 PM	1	0	0	1	0	0	2	2	3	5	2	10	0	5	0	5	18
5:45 PM	1	0	0	1	0	1	0	1	0	4	0	4	0	5	0	5	11
Total Survey	10	1	1	12	3	1	11	15	34	27	11	72	1	29	0	30	129

#### Heavy Vehicle Peak Hour Summary 4:20 PM to 5:20 PM

By Approach	Northbound SW 65th Ave			Southbound SW 65th Ave			Eastbound SW Lower Boones Ferry Rd			Westbound SW Lower Boones Ferry Rd			Total
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Volume	6	6	12	9	18	27	32	24	56	14	13	27	61
PHF	0.50			0.56			0.73			0.58			0.73

By Movement	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Total
	L	T	R	Total	L	T	R	Total	L	T	R	Total	L	T	R	Total	
Volume	4	1	1	6	2	0	7	9	17	10	5	32	1	13	0	14	61
PHF	0.50	0.25	0.25	0.50	0.25	0.00	0.58	0.56	0.53	0.42	0.63	0.73	0.25	0.54	0.00	0.58	0.73

#### Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Interval Start Time	Northbound SW 65th Ave				Southbound SW 65th Ave				Eastbound SW Lower Boones Ferry Rd				Westbound SW Lower Boones Ferry Rd				Interval Total
	L	T	R	Total	L	T	R	Total	L	T	R	Total	L	T	R	Total	
4:00 PM	5	0	1	6	2	0	8	10	25	14	6	45	1	13	0	14	75
4:15 PM	5	1	1	7	2	0	7	9	16	10	5	31	1	12	0	13	60
4:30 PM	5	1	0	6	1	0	6	7	13	10	3	26	0	12	0	12	51
4:45 PM	5	1	0	6	1	0	5	6	10	13	5	28	0	16	0	16	56
5:00 PM	5	1	0	6	1	1	3	5	9	13	5	27	0	16	0	16	54

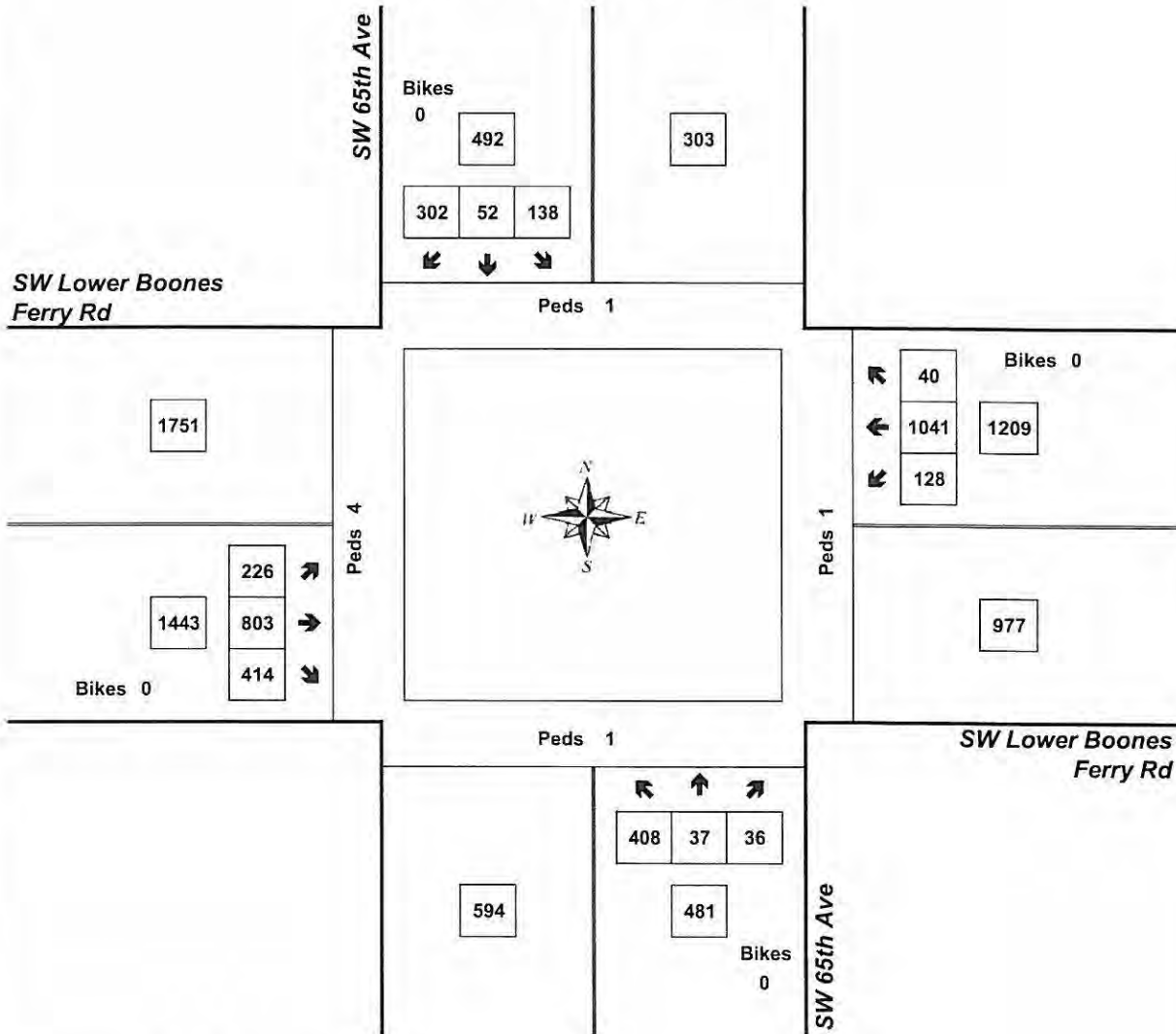
Peak Hour Summary



Clay Carney  
(503) 833-2740

SW 65th Ave & SW Lower Boones Ferry Rd

4:20 PM to 5:20 PM  
Wednesday, November 15, 2017



Approach	PHF	HV%	Volume
EB	0.91	2.2%	1,443
WB	0.91	1.2%	1,209
NB	0.87	1.2%	481
SB	0.91	1.8%	492
<b>Intersection</b>	<b>0.96</b>	<b>1.7%</b>	<b>3,625</b>

Count Period: 4:00 PM to 6:00 PM





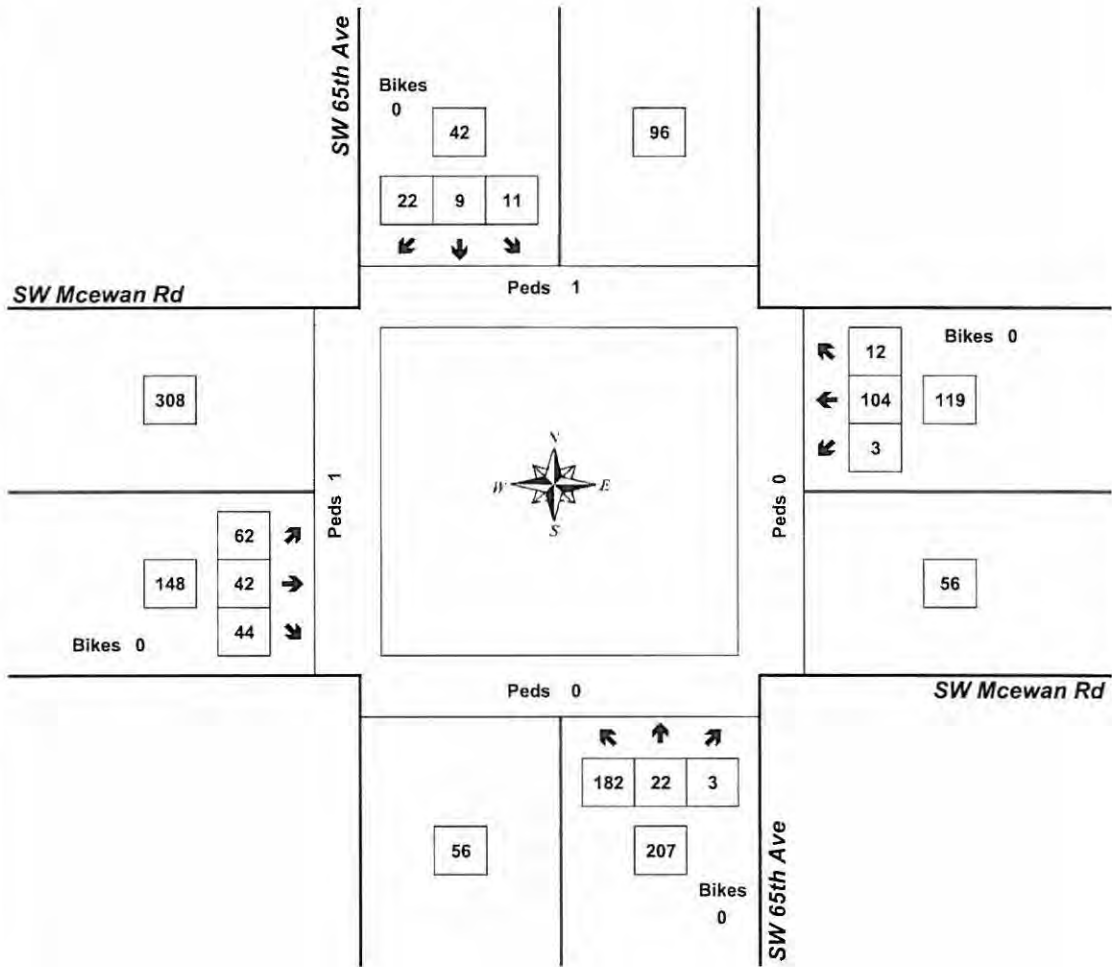
**Peak Hour Summary**



Clay Carney  
(503) 833-2740

**SW 65th Ave & SW Mcewan Rd**

7:50 AM to 8:50 AM  
Tuesday, November 28, 2017



Approach	PHF	HV%	Volume
EB	0.79	2.0%	148
WB	0.53	0.8%	119
NB	0.91	1.4%	207
SB	0.55	4.8%	42
<b>Intersection</b>	<b>0.78</b>	<b>1.7%</b>	<b>516</b>

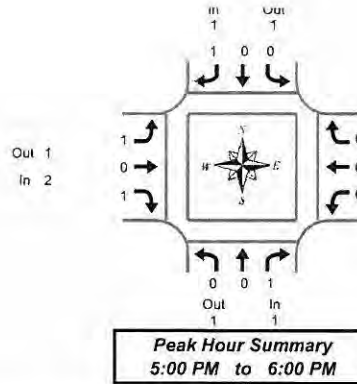
Count Period: 7:00 AM to 9:00 AM



Heavy Vehicle Summary



Clay Carney (503) 833-2740



SW 65th Ave & SW Mcewan Rd

Tuesday, November 28, 2017

4:00 PM to 6:00 PM

Heavy Vehicle 5-Minute Interval Summary 4:00 PM to 6:00 PM

Table with 17 columns: Interval Start Time, Northbound SW 65th Ave (L, T, R, Total), Southbound SW 65th Ave (L, T, R, Total), Eastbound SW Mcewan Rd (L, T, R, Total), Westbound SW Mcewan Rd (L, T, R, Total), Interval Total. Rows show 5-minute intervals from 4:00 PM to 5:55 PM, and a Total Survey row.

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

Table with 14 columns: Interval Start Time, Northbound SW 65th Ave (L, T, R, Total), Southbound SW 65th Ave (L, T, R, Total), Eastbound SW Mcewan Rd (L, T, R, Total), Westbound SW Mcewan Rd (L, T, R, Total), Interval Total. Rows show 15-minute intervals from 4:00 PM to 5:45 PM, and a Total Survey row.

Heavy Vehicle Peak Hour Summary 5:00 PM to 6:00 PM

Table with 6 columns: By Approach (Northbound SW 65th Ave, Southbound SW 65th Ave, Eastbound SW Mcewan Rd, Westbound SW Mcewan Rd, Total), In, Out, Total, PHF. Shows overall approach counts and PHF values.

Table with 6 columns: By Movement (Northbound SW 65th Ave, Southbound SW 65th Ave, Eastbound SW Mcewan Rd, Westbound SW Mcewan Rd, Total), L, T, R, Total, PHF. Shows overall movement counts and PHF values.

Heavy Vehicle Rolling Hour Summary 4:00 PM to 6:00 PM

Table with 17 columns: Interval Start Time, Northbound SW 65th Ave (L, T, R, Total), Southbound SW 65th Ave (L, T, R, Total), Eastbound SW Mcewan Rd (L, T, R, Total), Westbound SW Mcewan Rd (L, T, R, Total), Interval Total. Rows show rolling hour intervals from 4:00 PM to 5:00 PM.



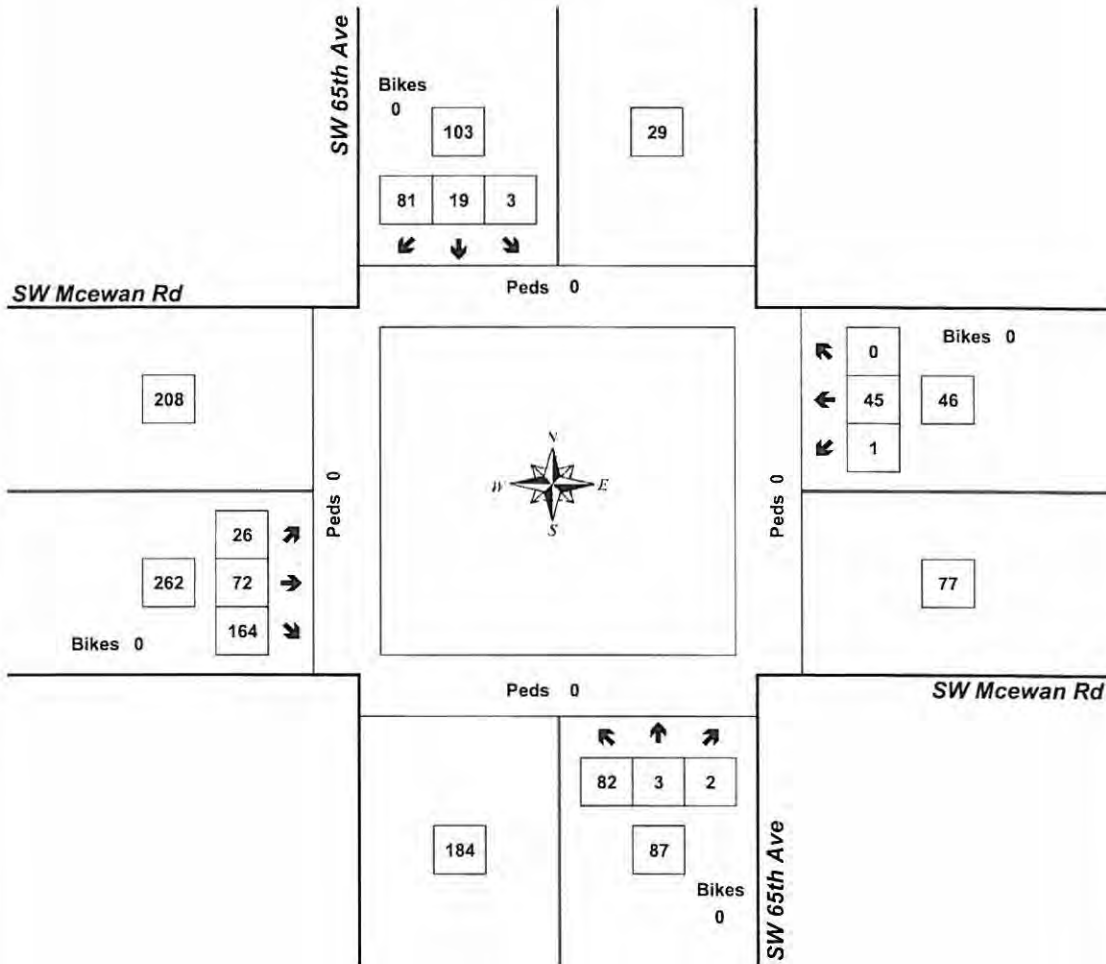
Peak Hour Summary



Clay Carney  
(503) 833-2740

SW 65th Ave & SW Mcewan Rd

5:00 PM to 6:00 PM  
Tuesday, November 28, 2017



Approach	PHF	HV%	Volume
EB	0.91	0.8%	262
WB	0.68	0.0%	46
NB	0.84	1.1%	87
SB	0.64	1.0%	103
<b>Intersection</b>	<b>0.93</b>	<b>0.8%</b>	<b>498</b>

Count Period: 4:00 PM to 6:00 PM

CDS150  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
CRASH SUMMARIES BY YEAR BY COLLISION TYPE  
65TH AVE at BOONES FERRY RD, City of Tualatin, Clackamas County, 01/01/2011 to 12/31/2015

Page: 1

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2012														
ANGLE	0	1	0	1	0	4	0	0	1	0	1	1	0	0
REAR-END	0	2	1	3	0	3	0	1	2	2	1	3	0	0
YEAR 2012 TOTAL	0	3	1	4	0	7	0	1	3	2	2	4	0	0
YEAR: 2011														
REAR-END	0	1	1	2	0	1	0	0	1	1	1	2	0	0
YEAR 2011 TOTAL	0	1	1	2	0	1	0	0	1	1	1	2	0	0
FINAL TOTAL	0	4	2	6	0	8	0	1	4	3	3	6	0	0

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ODS180  
01/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
URBAN NON-FATAL CRASH REPORTS

Page 1

CITY OF TUALATIN, CLACKAMAS COUNTY

55TH AVE at BOONES FERRY RD, City of Tualatin, Clackamas County, 01/01/2011 to 12/31/2015

Total Crash Records: 8

CRASH ID	DATE	CLASS	CITY STREET	RD CLAS	INT-TYPE	INT-REL	OBSTD	WT R	CRASH	SPCL SE	TRIP CTY	MOVE	PRC	SVR TY	E X RES	LOC	SEVER	ACT EVENT	CAUSE					
INVERT	DIR	TYPE	FROM	TO	(LANES)	(SIGNAL)	LEVAY	LANE	TYPE	VE TYPE	TR	DIR	DRY	WET	ICE	DRY	DRY	DRY	DRY					
14016	11/15/2012	14	BOONES FERRY RD SW 65TH AVE	INTER SE	CROSS	N	TRF SIGNAL	N	RAIN	S-1STOP	01 NONE	0	STRCHT	NE-SW	01 DRIVE	NONE	16	F	DRY	DR<25	126	000	000	00
											02 NONE	0	STO	NE-SW	01 DRIVE	NONE	16	F	DRY	DR<25	126	000	000	00
											03 NONE	0	STO	NE-SW	01 DRIVE	NONE	16	F	DRY	DR<25	126	000	000	00
14248	10/14/2013	14	BOONES FERRY RD SW 65TH AVE	INTER NE	CROSS	N	TRF SIGNAL	N	DRY	S-1STOP	01 NONE	0	STRCHT	NE-SW	01 DRIVE	NONE	10	M	DRY	DR<25	128	000	000	00
											02 NONE	0	STO	NE-SW	01 DRIVE	NONE	10	M	DRY	DR<25	128	000	000	00
											03 NONE	0	STO	NE-SW	01 DRIVE	NONE	10	M	DRY	DR<25	128	000	000	00
14430	11/19/2012	14	BOONES FERRY RD SW 65TH AVE	INTER SE	CROSS	N	TRF SIGNAL	N	RAIN	S-1STOP	01 NONE	0	STRCHT	NE-SW	01 DRIVE	NONE	17	M	DRY	DR<25	131	000	000	00
											02 NONE	0	STO	NE-SW	01 DRIVE	NONE	17	M	DRY	DR<25	131	000	000	00
											03 NONE	0	STO	NE-SW	01 DRIVE	NONE	17	M	DRY	DR<25	131	000	000	00
											04 NONE	0	STO	NE-SW	02 PSNG	NONE	12	F	DRY	DR<25	101	000	000	00
14611	12/12/2013	14	BOONES FERRY RD SW 65TH AVE	INTER SE	CROSS	N	TRF SIGNAL	N	DRY	S-1STOP	01 NONE	0	STRCHT	S-N	01 DRIVE	NONE	15	F	DRY	DR<25	120	000	000	00
											02 NONE	0	STO	S-N	01 DRIVE	NONE	10	M	DRY	DR<25	107	000	000	00
											03 NONE	0	STO	S-N	01 DRIVE	NONE	10	M	DRY	DR<25	107	000	000	00
14749	11/24/2013	14	BOONES FERRY RD SW 65TH AVE	INTER SE	CROSS	N	TRF SIGNAL	N	RAIN	S-1STOP	01 NONE	0	STRCHT	S-N	01 DRIVE	NONE	12	F	DRY	DR<25	126	000	000	00
											02 NONE	0	STO	S-N	01 DRIVE	NONE	12	F	DRY	DR<25	126	000	000	00
											03 NONE	0	STO	S-N	01 DRIVE	NONE	12	F	DRY	DR<25	126	000	000	00
14914	11/21/2013	14	BOONES FERRY RD SW 65TH AVE	INTER SE	CROSS	N	TRF SIGNAL	N	RAIN	LANE-OTH	01 NONE	0	STRCHT	E-W	01 DRIVE	NONE	15	M	DRY	N-RS	123	000	000	00
											02 NONE	0	STRCHT	E-W	01 DRIVE	NONE	15	M	DRY	N-RS	123	000	000	00
											03 NONE	0	STRCHT	E-W	01 PSNG	NONE	10	F	DRY	N-RS	100	000	000	00

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CRS380  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
URBAN NON-FATAL CRASH LOGGING

Page 20

CITY OF TUALATIN, CLACKAMAS COUNTY

65TH AVE at BOONES FERRY RD, City of Tualatin, Clackamas County, 01/01/2011 to 12/31/2015

10/17 1488 1001 628 5

DATE	TIME	CLASS	CITY STREET	RD CLAS	INT-TYPE	INT-REG	DRGSE	HTG	CSASH	TRLE CTY	MOV	PR C	NR	GE	ES	LINGS	FWD	SPDR	ACT	EVENT	CAUSE
01	01:00	DRIVE	65TH AVE	BOONES FERRY RD	DRIVE	REG	DRIVE	HTG	CSASH	TUALATIN	DRIVE	01	DRIVE	20	21	22	23	24	25	26	27
02	01:00	DRIVE	65TH AVE	BOONES FERRY RD	DRIVE	REG	DRIVE	HTG	CSASH	TUALATIN	DRIVE	02	DRIVE	20	21	22	23	24	25	26	27
03	01:00	DRIVE	65TH AVE	BOONES FERRY RD	DRIVE	REG	DRIVE	HTG	CSASH	TUALATIN	DRIVE	03	DRIVE	20	21	22	23	24	25	26	27

CDS150  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
CRASH SUMMARIES BY YEAR BY COLLISION TYPE

Page: 1

65TH AVE at LOWER BOONES FERRY, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2014														
FIXED / OTHER OBJECT	0	0	1	1	0	0	0	0	1	0	1	1	0	1
YEAR 2014 TOTAL	0	0	1	1	0	0	0	0	1	0	1	1	0	1
YEAR: 2012														
REAR-END	0	0	1	1	0	0	0	1	0	1	0	1	0	0
YEAR 2012 TOTAL	0	0	1	1	0	0	0	1	0	1	0	1	0	0
YEAR: 2011														
REAR-END	0	1	0	1	0	1	0	1	0	1	0	1	0	0
TURNING MOVEMENTS	0	0	1	1	0	0	0	0	1	0	1	1	0	0
YEAR 2011 TOTAL	0	1	1	2	0	1	0	1	1	1	1	2	0	0
FINAL TOTAL	0	1	3	4	0	1	0	2	2	2	2	4	0	1

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CDS380  
01/14/2015

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
URBAN NON-CYBERM CRASH LISTINGS

Page 1

CITY OF TUALATIN, WASHINGTON COUNTY

65TH AVE at LOWER BOONES FERRY, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015

Total Crash Occurrences: 4

FILE	DATE	CLASS	CITY STREET	RD CHAR	INT-TYPE	INT-REL	OPED	WT	CRASH	SPC USE	TRLR	CTY	MOVZ	PRC	NO	ST	OFF	UNINS	PKD	PRVIL	SVRTY	SEX	AGE	DOB	DOB	ACT	EVENT	ALBU
74117	08/19/2012	13	SW LOWER BOONES FERRY INTER	INTER	CROSS	N	CL	S-1STDR	01	UNKN	0	STRGHT	NONE	01	DRVR	NONE	00	M	DR-Y	026	000	000	000	000	000	000	000	
76944	02/15/2014	14	SW LOWER BOONES FERRY INTER	INTER	CROSS	N	CL	S-1STDR	01	UNKN	0	STRGHT	NONE	01	DRVR	NONE	22	M	DR-Y	947,004	000	000	000	000	000	000	000	
**373	05/18/2011	14	SW LOWER BOONES FERRY INTER	INTER	CROSS	N	CL	S-1STDR	01	UNKN	0	STRGHT	NONE	01	DRVR	NONE	04	M	DR-Y	026	000	000	000	000	000	000	000	
75508	04/11/2013	14	SW LOWER BOONES FERRY INTER	INTER	CROSS	N	CL	S-1STDR	01	UNKN	0	STRGHT	NONE	01	DRVR	NONE	27	F	DR-Y	000	000	000	000	000	000	000	000	

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CDS150  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
CRASH SUMMARIES BY YEAR BY COLLISION TYPE  
65TH AVE at MCEWAN RD, City of Tualatin, Clackamas County, 01/01/2011 to 12/31/2015

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
FINAL TOTAL														

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CDS150  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
CRASH SUMMARIES BY YEAR BY COLLISION TYPE  
65TH AVE at MCEWAN RD, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015

Page: 1

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2013														
TURNING MOVEMENTS	0	0	1	1	0	0	0	1	0	0	1	1	0	0
YEAR 2013 TOTAL	0	0	1	1	0	0	0	1	0	0	1	1	0	0
FINAL TOTAL	0	0	1	1	0	0	0	1	0	0	1	1	0	0

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CRS180  
1/14/2017

Page 1

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
URBAN NON-SYSTEM CRASH REPORTING  
65TH AVE at MCEWAN RD, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015  
Total Crash Records: 1

DATE	TIME	CLASS	CITY STREET	REF. CLAS	INT-TYPE	INT-REL	OFF-CD	WT-N	CRASH	TRLR CITY	MOVE	PRIC	NO	IN	ACT	SVLNT	CAUSE
YEAR	MO	DAY	DIR	LANE	LEGS	DIR	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
2011	01	16	SW MCEWAN RD	INTER	7-LEG	H	N	CLC	LANE-CHG	02	NONE	0	STRCH				00
		WS	SW 65TH AVE	7N		STOP SIGN	N	DRY	TRN		PRVT						00
				03	0		N	DRY	DRY		PSNGR CAR		01	DRVE	NONE	05	0TH-Y
											02	NONE	0	TRN-0			00
											PRVT						00
											PSNGR CAR		01	DRVE	NONE	05	0TH-Y
																	00

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CDS150  
11/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
CRASH SUMMARIES BY YEAR BY COLLISION TYPE  
65TH AVE at MCEWAN RD, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015

Page: 1

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2013														
TURNING MOVEMENTS	0	0	1	1	0	0	0	1	0	0	1	1	0	0
YEAR 2013 TOTAL	0	0	1	1	0	0	0	1	0	0	1	1	0	0
FINAL TOTAL	0	0	1	1	0	0	0	1	0	0	1	1	0	0

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ODS380  
01/14/2017

OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION  
TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT  
ORAN NON-CRASH CRASH LISTING  
CITY OF TUALATIN, WASHINGTON COUNTY  
65TH AVE at MCEWAN RD, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015  
(total crash records: 1)

CRASH ID	DATE	TIME	CLASS	CITY STREET	REF CHAR	INT-TYPE	IMPACT	INT-RT	DRIVE	WTR	CRASH	SPEC USE	TRIP CTY	MODE	PREC	NO	A S	REASON	SPOR	ACT EVENT	INVR
EVENT	DAY	TIME	CLASS	CITY STREET	REF CHAR	IMPACT	INT-RT	DRIVE	WTR	CRASH	SPEC USE	TRIP CTY	MODE	PREC	NO	A S	REASON	SPOR	ACT EVENT	INVR	
1226	01/14/2017	07:10	01	65TH AVE	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01

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## Left-Turn Lane Warrant Analysis

*Le*

Project: TVF&R Station 39  
 Intersection: North Site Access at SW McEwan Road  
 Date: 11/28/2017  
 Scenario: 2019 Background plus Site Conditions - AM Peak Hour

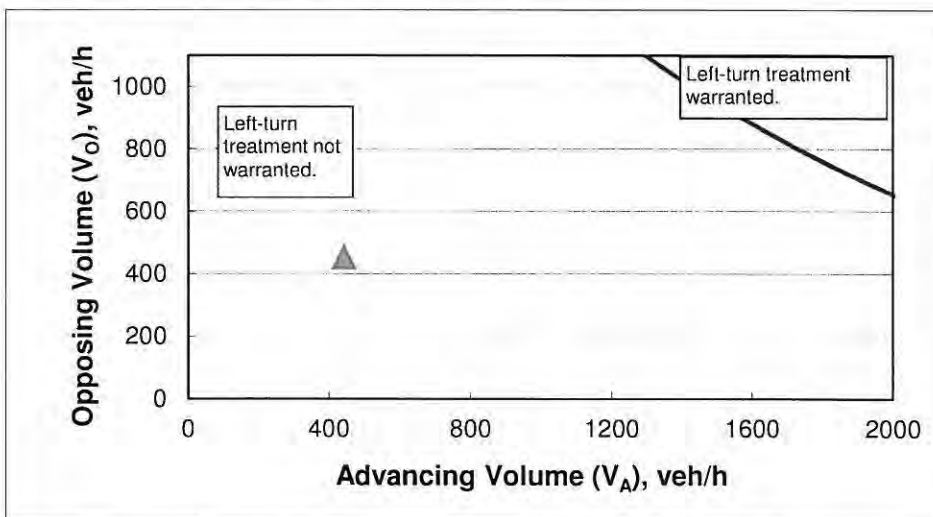
### 2-lane roadway (English)

#### INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	30
Percent of left-turns in advancing volume ( $V_A$ ), %:	0%
Advancing volume ( $V_A$ ), veh/h:	443
Opposing volume ( $V_O$ ), veh/h:	454

#### OUTPUT

Variable	Value
Limiting advancing volume ( $V_A$ ), veh/h:	2456
<b>Guidance for determining the need for a major-road left-turn bay:</b>	
<b>Left-turn treatment NOT warranted.</b>	



#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

### Left-Turn Lane Warrant Analysis

*le*

Project: TVF&R Station 39  
 Intersection: North Site Access at SW McEwan Road  
 Date: 11/28/2017  
 Scenario: 2019 Background plus Site Conditions - PM Peak Hour

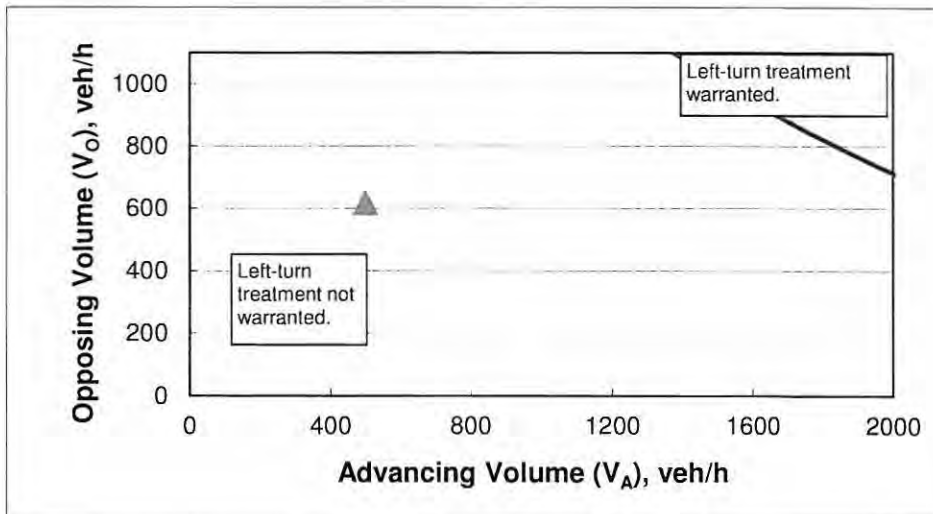
#### 2-lane roadway (English)

##### INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	30
Percent of left-turns in advancing volume ( $V_A$ ), %:	0%
Advancing volume ( $V_A$ ), veh/h:	499
Opposing volume ( $V_O$ ), veh/h:	620

##### OUTPUT

Variable	Value
Limiting advancing volume ( $V_A$ ), veh/h:	2199
<b>Guidance for determining the need for a major-road left-turn bay:</b>	
<b>Left-turn treatment NOT warranted.</b>	



##### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

## Traffic Signal Warrant Analysis

Project: TVF&R Station 39  
Date: 11/30/2017  
Scenario: Year 2019 Background plus Site Conditions

Major Street:	SW McEwan Road	Minor Street:	SW 65th Avenue
Number of Lanes:	1	Number of Lanes:	1
PM Peak Hour Volumes:	322	PM Peak Hour Volumes:	90

**Warrant Used:**

100 percent of standard warrants used  
 70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
Major St.	Minor St.	100% Warrants	70% Warrants	100% Warrants	70% Warrants
<b>WARRANT 1, CONDITION A</b>					
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
<b>WARRANT 1, CONDITION B</b>					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
<i>Warrant 1</i>			
<i>Condition A: Minimum Vehicular Volume</i>			
Major Street	3,220	8,850	
Minor Street*	900	2,650	<b>No</b>
<i>Condition B: Interruption of Continuous Traffic</i>			
Major Street	3,220	13,300	
Minor Street*	900	1,350	<b>No</b>
<i>Combination Warrant</i>			
Major Street	3,220	10,640	
Minor Street*	900	2,120	<b>No</b>

\* Minor street right-turning traffic volumes reduced by 25%

1e

## LEVEL OF SERVICE

Level of service is used to describe the quality of traffic flow. Levels of service A to C are considered good, and rural roads are usually designed for level of service C. Urban streets and signalized intersections are typically designed for level of service D. Level of service E is considered to be the limit of acceptable delay. For unsignalized intersections, level of service E is generally considered acceptable. Here is a more complete description of levels of service:

*Level of service A:* Very low delay at intersections, with all traffic signal cycles clearing and no vehicles waiting through more than one signal cycle. On highways, low volume and high speeds, with speeds not restricted by other vehicles.

*Level of service B:* Operating speeds beginning to be affected by other traffic; short traffic delays at intersections. Higher average intersection delay than for level of service A resulting from more vehicles stopping.

*Level of service C:* Operating speeds and maneuverability closely controlled by other traffic; higher delays at intersections than for level of service B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. This is the recommended design standard for rural highways.

*Level of service D:* Tolerable operating speeds; long traffic delays occur at intersections. The influence of congestion is noticeable. At traffic signals many vehicles stop, and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle, are noticeable. This is typically the design level for urban signalized intersections.

*Level of service E:* Restricted speeds, very long traffic delays at traffic signals, and traffic volumes near capacity. Flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate to level of service F. Traffic signal cycle failures are frequent occurrences. For unsignalized intersections, level of service E or better is generally considered acceptable.

*Level of service F:* Extreme delays, resulting in long queues which may interfere with other traffic movements. There may be stoppages of long duration, and speeds may drop to zero. There may be frequent signal cycle failures. Level of service F will typically result when vehicle arrival rates are greater than capacity. It is considered unacceptable by most drivers.



*LEVEL OF SERVICE CRITERIA  
FOR SIGNALIZED INTERSECTIONS*

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (Seconds)
A	<10
B	10-20
C	20-35
D	35-55
E	55-80
F	>80

*LEVEL OF SERVICE CRITERIA  
FOR UNSIGNALIZED INTERSECTIONS*

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (Seconds)
A	<10
B	10-15
C	15-25
D	25-35
E	35-50
F	>50



HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	232	975	306	102	811	30	365	32	28	63	24	125
Future Volume (vph)	232	975	306	102	811	30	365	32	28	63	24	125
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frbp, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.97	1.00
Satd. Flow (prot)	1719	3438	1515	1736	4955		1665	1655			1777	1559
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.64	1.00
Satd. Flow (perm)	1719	3438	1515	1736	4955		1665	1655			1178	1559
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	252	1060	333	111	882	33	397	35	30	68	26	136
RTOR Reduction (vph)	0	0	151	0	4	0	0	6	0	0	0	48
Lane Group Flow (vph)	252	1060	182	111	911	0	230	226	0	0	94	88
Confl. Peds. (#/hr)	5		1	1		5	1		3	3		1
Confl. Bikes (#/hr)			1			1						
Heavy Vehicles (%)	5%	5%	5%	4%	4%	4%	3%	3%	3%	3%	3%	3%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Perm	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2			6	7
Permitted Phases			4							6		6
Actuated Green, G (s)	15.7	28.4	44.2	6.9	19.6		15.8	15.8			11.6	27.3
Effective Green, g (s)	15.7	28.4	44.2	6.9	19.6		15.8	15.8			11.6	27.3
Actuated g/C Ratio	0.19	0.35	0.55	0.09	0.24		0.20	0.20			0.14	0.34
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	334	1209	914	148	1203		325	324			169	614
v/s Ratio Prot	c0.15	c0.31	0.04	0.06	0.18		c0.14	0.14				0.03
v/s Ratio Perm			0.08								c0.08	0.03
v/c Ratio	0.75	0.88	0.20	0.75	0.76		0.71	0.70			0.56	0.14
Uniform Delay, d1	30.7	24.5	9.3	36.1	28.3		30.3	30.2			32.2	18.6
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	9.3	7.4	0.1	19.0	2.8		6.9	6.4			3.9	0.1
Delay (s)	40.0	31.9	9.4	55.1	31.1		37.2	36.7			36.1	18.7
Level of Service	D	C	A	E	C		D	D			D	B
Approach Delay (s)		28.6			33.7			36.9			25.8	
Approach LOS		C			C			D			C	

Intersection Summary

HCM 2000 Control Delay	31.1	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	80.7	Sum of lost time (s)	18.0
Intersection Capacity Utilization	62.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh 10  
Intersection LOS A

























Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	62	42	44	3	104	12	182	22	3	11	9	22
Future Vol, veh/h	62	42	44	3	104	12	182	22	3	11	9	22
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	2	2	2	1	1	1	1	1	1	5	5	5
Mvmt Flow	79	54	56	4	133	15	233	28	4	14	12	28
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.6	9.3	10.9	8.4
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	88%	42%	3%	26%
Vol Thru, %	11%	28%	87%	21%
Vol Right, %	1%	30%	10%	52%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	207	148	119	42
LT Vol	182	62	3	11
Through Vol	22	42	104	9
RT Vol	3	44	12	22
Lane Flow Rate	265	190	153	54
Geometry Grp	1	1	1	1
Degree of Util (X)	0.367	0.255	0.208	0.073
Departure Headway (Hd)	4.973	4.839	4.907	4.907
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	719	738	726	722
Service Time	3.036	2.901	2.973	2.99
HCM Lane V/C Ratio	0.369	0.257	0.211	0.075
HCM Control Delay	10.9	9.6	9.3	8.4
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.7	1	0.8	0.2

HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	226	803	414	128	1041	40	408	37	36	138	52	302
Future Volume (vph)	226	803	414	128	1041	40	408	37	36	138	52	302
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frbp, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (prot)	1770	3539	1562	1787	5103		1698	1685			1797	1570
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (perm)	1770	3539	1562	1787	5103		1698	1685			1797	1570
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	235	836	431	133	1084	42	425	39	38	144	54	315
RTOR Reduction (vph)	0	0	216	0	5	0	0	7	0	0	0	47
Lane Group Flow (vph)	235	836	215	133	1121	0	251	244	0	0	198	268
Confl. Peds. (#/hr)	1		1	1		1	4		1	1		4
Heavy Vehicles (%)	2%	2%	2%	1%	1%	1%	1%	1%	1%	2%	2%	2%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Split	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2		6	6	7
Permitted Phases			4									6
Actuated Green, G (s)	15.0	24.6	41.0	9.3	18.9		16.4	16.4			13.9	28.9
Effective Green, g (s)	15.0	24.6	41.0	9.3	18.9		16.4	16.4			13.9	28.9
Actuated g/C Ratio	0.18	0.30	0.50	0.11	0.23		0.20	0.20			0.17	0.35
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	322	1059	864	202	1173		338	336			303	637
v/s Ratio Prot	c0.13	0.24	0.05	0.07	c0.22		c0.15	0.14			c0.11	0.08
v/s Ratio Perm			0.09									0.09
v/c Ratio	0.73	0.79	0.25	0.66	0.96		0.74	0.73			0.65	0.42
Uniform Delay, d1	31.7	26.4	11.8	34.9	31.2		30.9	30.8			31.9	20.3
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	8.0	4.0	0.2	7.5	16.7		8.5	7.6			5.0	0.4
Delay (s)	39.7	30.4	11.9	42.5	47.9		39.4	38.4			36.9	20.7
Level of Service	D	C	B	D	D		D	D			D	C
Approach Delay (s)		26.6			47.3			38.9			27.0	
Approach LOS		C			D			D			C	

Intersection Summary

HCM 2000 Control Delay	35.2	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	82.2	Sum of lost time (s)	18.0
Intersection Capacity Utilization	64.8%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh 8.7  
Intersection LOS A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	26	72	164	1	45	1	82	3	2	3	19	81
Future Vol, veh/h	26	72	164	1	45	1	82	3	2	3	19	81
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	1	1	1	0	0	0	1	1	1	1	1	1
Mvmt Flow	28	77	176	1	48	1	88	3	2	3	20	87
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.1	8	8.7	8
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	94%	10%	2%	3%
Vol Thru, %	3%	27%	96%	18%
Vol Right, %	2%	63%	2%	79%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	87	262	47	103
LT Vol	82	26	1	3
Through Vol	3	72	45	19
RT Vol	2	164	1	81
Lane Flow Rate	94	282	51	111
Geometry Grp	1	1	1	1
Degree of Util (X)	0.128	0.321	0.066	0.132
Departure Headway (Hd)	4.937	4.099	4.666	4.289
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	725	879	767	835
Service Time	2.972	2.121	2.698	2.322
HCM Lane V/C Ratio	0.13	0.321	0.066	0.133
HCM Control Delay	8.7	9.1	8	8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	1.4	0.2	0.5

HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	241	1014	318	106	844	31	380	33	29	66	25	130
Future Volume (vph)	241	1014	318	106	844	31	380	33	29	66	25	130
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (prot)	1719	3438	1515	1736	4955		1665	1654			1776	1559
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.63	1.00
Satd. Flow (perm)	1719	3438	1515	1736	4955		1665	1654			1166	1559
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	262	1102	346	115	917	34	413	36	32	72	27	141
RTOR Reduction (vph)	0	0	154	0	4	0	0	6	0	0	0	48
Lane Group Flow (vph)	262	1102	192	115	947	0	240	235	0	0	99	93
Confl. Peds. (#/hr)	5		1	1		5	1		3	3		1
Confl. Bikes (#/hr)			1			1						
Heavy Vehicles (%)	5%	5%	5%	4%	4%	4%	3%	3%	3%	3%	3%	3%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Perm	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2			6	7
Permitted Phases			4							6		6
Actuated Green, G (s)	16.1	29.5	45.6	6.7	20.1		16.1	16.1			12.0	28.1
Effective Green, g (s)	16.1	29.5	45.6	6.7	20.1		16.1	16.1			12.0	28.1
Actuated g/C Ratio	0.20	0.36	0.55	0.08	0.24		0.20	0.20			0.15	0.34
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	336	1232	922	141	1210		325	323			170	617
v/s Ratio Prot	c0.15	c0.32	0.04	0.07	0.19		c0.14	0.14				0.03
v/s Ratio Perm			0.09								c0.08	0.03
v/c Ratio	0.78	0.89	0.21	0.82	0.78		0.74	0.73			0.58	0.15
Uniform Delay, d1	31.4	24.9	9.2	37.2	29.1		31.1	31.0			32.8	18.8
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	10.9	8.6	0.1	29.1	3.4		8.5	7.9			5.0	0.1
Delay (s)	42.3	33.6	9.4	66.3	32.4		39.6	38.9			37.8	18.9
Level of Service	D	C	A	E	C		D	D			D	B
Approach Delay (s)		30.0			36.1			39.3			26.7	
Approach LOS		C			D			D			C	

Intersection Summary

HCM 2000 Control Delay	32.9	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.81		
Actuated Cycle Length (s)	82.3	Sum of lost time (s)	18.0
Intersection Capacity Utilization	64.1%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh 10.2  
Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	65	44	46	3	108	12	189	23	3	11	9	23
Future Vol, veh/h	65	44	46	3	108	12	189	23	3	11	9	23
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	2	2	2	1	1	1	1	1	1	5	5	5
Mvmt Flow	83	56	59	4	138	15	242	29	4	14	12	29
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.8	9.4	11.2	8.5
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	88%	42%	2%	26%
Vol Thru, %	11%	28%	88%	21%
Vol Right, %	1%	30%	10%	53%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	215	155	123	43
LT Vol	189	65	3	11
Through Vol	23	44	108	9
RT Vol	3	46	12	23
Lane Flow Rate	276	199	158	55
Geometry Grp	1	1	1	1
Degree of Util (X)	0.384	0.269	0.217	0.076
Departure Headway (Hd)	5.014	4.882	4.957	4.958
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	711	729	718	714
Service Time	3.082	2.951	3.03	3.048
HCM Lane V/C Ratio	0.388	0.273	0.22	0.077
HCM Control Delay	11.2	9.8	9.4	8.5
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.8	1.1	0.8	0.2

HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	235	835	431	133	1083	42	424	38	37	144	54	314
Future Volume (vph)	235	835	431	133	1083	42	424	38	37	144	54	314
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (prot)	1770	3539	1562	1787	5102		1698	1685			1797	1570
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (perm)	1770	3539	1562	1787	5102		1698	1685			1797	1570
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	245	870	449	139	1128	44	442	40	39	150	56	327
RTOR Reduction (vph)	0	0	219	0	5	0	0	7	0	0	0	47
Lane Group Flow (vph)	245	870	230	139	1167	0	261	253	0	0	206	280
Confl. Peds. (#/hr)	1		1	1		1	4		1	1		4
Heavy Vehicles (%)	2%	2%	2%	1%	1%	1%	1%	1%	1%	2%	2%	2%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Split	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2		6	6	7
Permitted Phases			4									6
Actuated Green, G (s)	15.4	25.7	42.5	8.1	18.4		16.8	16.8			14.2	29.6
Effective Green, g (s)	15.4	25.7	42.5	8.1	18.4		16.8	16.8			14.2	29.6
Actuated g/C Ratio	0.19	0.31	0.51	0.10	0.22		0.20	0.20			0.17	0.36
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	329	1098	886	174	1133		344	341			308	646
v/s Ratio Prot	c0.14	0.25	0.05	0.08	c0.23		c0.15	0.15			c0.11	0.08
v/s Ratio Perm			0.09									0.10
v/c Ratio	0.74	0.79	0.26	0.80	1.03		0.76	0.74			0.67	0.43
Uniform Delay, d1	31.8	26.1	11.3	36.6	32.2		31.1	31.0			32.1	20.2
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	8.8	4.0	0.2	22.0	34.8		9.2	8.4			5.4	0.5
Delay (s)	40.7	30.1	11.5	58.6	67.0		40.3	39.4			37.5	20.7
Level of Service	D	C	B	E	E		D	D			D	C
Approach Delay (s)		26.4			66.1			39.9			27.2	
Approach LOS		C			E			D			C	

Intersection Summary

HCM 2000 Control Delay	41.5	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.81		
Actuated Cycle Length (s)	82.8	Sum of lost time (s)	18.0
Intersection Capacity Utilization	66.9%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh 8.8  
Intersection LOS A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	27	75	171	1	47	1	85	3	2	3	20	84
Future Vol, veh/h	27	75	171	1	47	1	85	3	2	3	20	84
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	1	1	1	0	0	0	1	1	1	1	1	1
Mvmt Flow	29	81	184	1	51	1	91	3	2	3	22	90
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

























Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.2	8.1	8.8	8.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	94%	10%	2%	3%
Vol Thru, %	3%	27%	96%	19%
Vol Right, %	2%	63%	2%	79%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	90	273	49	107
LT Vol	85	27	1	3
Through Vol	3	75	47	20
RT Vol	2	171	1	84
Lane Flow Rate	97	294	53	115
Geometry Grp	1	1	1	1
Degree of Util (X)	0.134	0.336	0.069	0.138
Departure Headway (Hd)	4.977	4.123	4.703	4.328
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	719	872	761	826
Service Time	3.014	2.146	2.738	2.364
HCM Lane V/C Ratio	0.135	0.337	0.07	0.139
HCM Control Delay	8.8	9.2	8.1	8.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.5	1.5	0.2	0.5



HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	241	1014	322	107	844	31	383	33	30	66	25	130
Future Volume (vph)	241	1014	322	107	844	31	383	33	30	66	25	130
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frbp, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (prot)	1719	3438	1515	1736	4955		1665	1654			1776	1559
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.63	1.00
Satd. Flow (perm)	1719	3438	1515	1736	4955		1665	1654			1168	1559
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	262	1102	350	116	917	34	416	36	33	72	27	141
RTOR Reduction (vph)	0	0	156	0	4	0	0	6	0	0	0	48
Lane Group Flow (vph)	262	1102	194	116	947	0	245	234	0	0	99	93
Confl. Peds. (#/hr)	5		1	1		5	1		3	3		1
Confl. Bikes (#/hr)			1			1						
Heavy Vehicles (%)	5%	5%	5%	4%	4%	4%	3%	3%	3%	3%	3%	3%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Perm	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2			6	7
Permitted Phases			4							6		6
Actuated Green, G (s)	16.1	29.5	45.7	6.7	20.1		16.2	16.2			12.0	28.1
Effective Green, g (s)	16.1	29.5	45.7	6.7	20.1		16.2	16.2			12.0	28.1
Actuated g/C Ratio	0.20	0.36	0.55	0.08	0.24		0.20	0.20			0.15	0.34
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	335	1230	922	141	1208		327	325			170	616
v/s Ratio Prot	c0.15	c0.32	0.04	0.07	0.19		c0.15	0.14				0.03
v/s Ratio Perm			0.09								c0.08	0.03
v/c Ratio	0.78	0.90	0.21	0.82	0.78		0.75	0.72			0.58	0.15
Uniform Delay, d1	31.5	25.0	9.3	37.3	29.1		31.2	31.0			32.9	18.9
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	11.3	8.7	0.1	30.5	3.4		9.1	7.4			5.0	0.1
Delay (s)	42.8	33.7	9.4	67.8	32.5		40.3	38.4			37.9	19.0
Level of Service	D	C	A	E	C		D	D			D	B
Approach Delay (s)		30.1			36.4			39.3			26.8	
Approach LOS		C			D			D			C	

**Intersection Summary**

HCM 2000 Control Delay	33.1	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.81		
Actuated Cycle Length (s)	82.4	Sum of lost time (s)	18.0
Intersection Capacity Utilization	64.3%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

HCM 2010 TWSC  
2: North Site Access & SW McEwan Road

11/30/2017

Intersection						
Int Delay, s/veh	0.1					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations	↑			↑	↑	
Traffic Vol, veh/h	449	5	1	442	4	2
Future Vol, veh/h	449	5	1	442	4	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	488	5	1	480	4	2

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	493	0	974 491
Stage 1	-	-	-	-	491 -
Stage 2	-	-	-	-	483 -
Critical Hdwy	-	-	4.12	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	-	-	2.218	-	3.518 3.318
Pot Cap-1 Maneuver	-	-	1071	-	279 578
Stage 1	-	-	-	-	615 -
Stage 2	-	-	-	-	620 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1071	-	279 578
Mov Cap-2 Maneuver	-	-	-	-	279 -
Stage 1	-	-	-	-	615 -
Stage 2	-	-	-	-	619 -

Approach	SE	NW	NE
HCM Control Delay, s	0	0	15.9
HCM LOS			C

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	337	1071	-	-	-
HCM Lane V/C Ratio	0.019	0.001	-	-	-
HCM Control Delay (s)	15.9	8.4	0	-	-
HCM Lane LOS	C	A	A	-	-
HCM 95th %tile Q(veh)	0.1	0	-	-	-

HCM 2010 TWSC  
3: South Site Access & SW McEwan Road

11/30/2017

**Intersection**

Int Delay, s/veh	0					
<b>Movement</b>	<b>SET</b>	<b>SER</b>	<b>NWL</b>	<b>NWT</b>	<b>NEL</b>	<b>NER</b>
Lane Configurations	↑			↑	↑	
Traffic Vol, veh/h	451	0	0	443	1	1
Future Vol, veh/h	451	0	0	443	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	490	0	0	482	1	1

<b>Major/Minor</b>	<b>Major1</b>	<b>Major2</b>	<b>Minor1</b>		
Conflicting Flow All	0	-	-	-	972 490
Stage 1	-	-	-	-	490 -
Stage 2	-	-	-	-	482 -
Critical Hdwy	-	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	-	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	-	0	0	-	280 578
Stage 1	-	0	0	-	616 -
Stage 2	-	0	0	-	621 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	-	-	280 578
Mov Cap-2 Maneuver	-	-	-	-	280 -
Stage 1	-	-	-	-	616 -
Stage 2	-	-	-	-	621 -

<b>Approach</b>	<b>SE</b>	<b>NW</b>	<b>NE</b>
HCM Control Delay, s	0	0	14.6
HCM LOS			B

<b>Minor Lane/Major Mvmt</b>	<b>NELn1</b>	<b>NWT</b>	<b>SET</b>
Capacity (veh/h)	377	-	-
HCM Lane V/C Ratio	0.006	-	-
HCM Control Delay (s)	14.6	-	-
HCM Lane LOS	B	-	-
HCM 95th %tile Q(veh)	0	-	-

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh 10.2  
Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	65	45	47	3	108	12	189	23	3	11	9	24
Future Vol, veh/h	65	45	47	3	108	12	189	23	3	11	9	24
Peak Hour Factor	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Heavy Vehicles, %	2	2	2	1	1	1	1	1	1	5	5	5
Mvmt Flow	83	58	60	4	138	15	242	29	4	14	12	31
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.8	9.4	11.2	8.5
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	88%	41%	2%	25%
Vol Thru, %	11%	29%	88%	20%
Vol Right, %	1%	30%	10%	55%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	215	157	123	44
LT Vol	189	65	3	11
Through Vol	23	45	108	9
RT Vol	3	47	12	24
Lane Flow Rate	276	201	158	56
Geometry Grp	1	1	1	1
Degree of Util (X)	0.384	0.273	0.217	0.078
Departure Headway (Hd)	5.021	4.881	4.962	4.956
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	711	731	718	714
Service Time	3.092	2.952	3.038	3.048
HCM Lane V/C Ratio	0.388	0.275	0.22	0.078
HCM Control Delay	11.2	9.8	9.4	8.5
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.8	1.1	0.8	0.3

HCM Signalized Intersection Capacity Analysis  
1: SW 65th Avenue & SW Lower Boones Ferry Road

11/30/2017

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	235	835	432	134	1083	42	425	38	37	144	54	314
Future Volume (vph)	235	835	432	134	1083	42	425	38	37	144	54	314
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91		0.95	0.95			1.00	1.00
Frbp, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00			1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.98			1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (prot)	1770	3539	1562	1787	5102		1698	1685			1797	1570
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	0.97			0.96	1.00
Satd. Flow (perm)	1770	3539	1562	1787	5102		1698	1685			1797	1570
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	245	870	450	140	1128	44	443	40	39	150	56	327
RTOR Reduction (vph)	0	0	220	0	5	0	0	7	0	0	0	47
Lane Group Flow (vph)	245	870	230	140	1167	0	261	254	0	0	206	280
Confl. Peds. (#/hr)	1		1	1		1	4		1	1		4
Heavy Vehicles (%)	2%	2%	2%	1%	1%	1%	1%	1%	1%	2%	2%	2%
Turn Type	Prot	NA	pm+ov	Prot	NA		Split	NA		Split	NA	pm+ov
Protected Phases	7	4	2	3	8		2	2		6	6	7
Permitted Phases			4									6
Actuated Green, G (s)	15.4	25.6	42.4	8.2	18.4		16.8	16.8			14.2	29.6
Effective Green, g (s)	15.4	25.6	42.4	8.2	18.4		16.8	16.8			14.2	29.6
Actuated g/C Ratio	0.19	0.31	0.51	0.10	0.22		0.20	0.20			0.17	0.36
Clearance Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5			4.5	4.5
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0	3.0
Lane Grp Cap (vph)	329	1094	884	176	1133		344	341			308	646
v/s Ratio Prot	c0.14	0.25	0.05	0.08	c0.23		c0.15	0.15			c0.11	0.08
v/s Ratio Perm			0.09									0.10
v/c Ratio	0.74	0.80	0.26	0.80	1.03		0.76	0.74			0.67	0.43
Uniform Delay, d1	31.8	26.2	11.4	36.5	32.2		31.1	31.0			32.1	20.2
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00			1.00	1.00
Incremental Delay, d2	8.8	4.1	0.2	21.5	34.8		9.2	8.5			5.4	0.5
Delay (s)	40.7	30.3	11.5	58.0	67.0		40.3	39.5			37.5	20.7
Level of Service	D	C	B	E	E		D	D			D	C
Approach Delay (s)		26.5			66.0			39.9			27.2	
Approach LOS		C			E			D			C	

Intersection Summary

HCM 2000 Control Delay	41.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.81		
Actuated Cycle Length (s)	82.8	Sum of lost time (s)	18.0
Intersection Capacity Utilization	66.9%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

HCM 2010 TWSC  
2: North Site Access & SW McEwan Road

11/30/2017

**Intersection**

Int Delay, s/veh	0					
<b>Movement</b>	<b>SET</b>	<b>SER</b>	<b>NWL</b>	<b>NWT</b>	<b>NEL</b>	<b>NER</b>
Lane Configurations	↑			↑	↑	
Traffic Vol, veh/h	618	2	1	499	1	1
Future Vol, veh/h	618	2	1	499	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	672	2	1	542	1	1

<b>Major/Minor</b>	<b>Major1</b>	<b>Major2</b>	<b>Minor1</b>		
Conflicting Flow All	0	0	674	0	1218
Stage 1	-	-	-	-	673
Stage 2	-	-	-	-	545
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	917	-	199
Stage 1	-	-	-	-	507
Stage 2	-	-	-	-	581
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	917	-	199
Mov Cap-2 Maneuver	-	-	-	-	199
Stage 1	-	-	-	-	507
Stage 2	-	-	-	-	580

<b>Approach</b>	<b>SE</b>	<b>NW</b>	<b>NE</b>
HCM Control Delay, s	0	0	18.1
HCM LOS			C

<b>Minor Lane/Major Mvmt</b>	<b>NELn1</b>	<b>NWL</b>	<b>NWT</b>	<b>SET</b>	<b>SER</b>
Capacity (veh/h)	277	917	-	-	-
HCM Lane V/C Ratio	0.008	0.001	-	-	-
HCM Control Delay (s)	18.1	8.9	0	-	-
HCM Lane LOS	C	A	A	-	-
HCM 95th %tile Q(veh)	0	0	-	-	-

HCM 2010 TWSC  
3: South Site Access & SW McEwan Road

11/30/2017

**Intersection**

Int Delay, s/veh	0					
<b>Movement</b>	<b>SET</b>	<b>SER</b>	<b>NWL</b>	<b>NWT</b>	<b>NEL</b>	<b>NER</b>
Lane Configurations	↑			↑	↘	
Traffic Vol, veh/h	619	0	0	499	1	1
Future Vol, veh/h	619	0	0	499	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	673	0	0	542	1	1

<b>Major/Minor</b>	<b>Major1</b>	<b>Major2</b>	<b>Minor1</b>		
Conflicting Flow All	0	-	-	-	1215 673
Stage 1	-	-	-	-	673 -
Stage 2	-	-	-	-	542 -
Critical Hdwy	-	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	-	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	-	0	0	-	200 455
Stage 1	-	0	0	-	507 -
Stage 2	-	0	0	-	583 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	-	-	200 455
Mov Cap-2 Maneuver	-	-	-	-	200 -
Stage 1	-	-	-	-	507 -
Stage 2	-	-	-	-	583 -

<b>Approach</b>	<b>SE</b>	<b>NW</b>	<b>NE</b>
HCM Control Delay, s	0	0	18.1
HCM LOS			C

<b>Minor Lane/Major Mvmt</b>	<b>NELn1</b>	<b>NWT</b>	<b>SET</b>
Capacity (veh/h)	278	-	-
HCM Lane V/C Ratio	0.008	-	-
HCM Control Delay (s)	18.1	-	-
HCM Lane LOS	C	-	-
HCM 95th %tile Q(veh)	0	-	-

HCM 2010 AWSC  
4: SW 65th Avenue & SW McEwan Road

11/30/2017

**Intersection**

Intersection Delay, s/veh	8.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	27	76	171	1	47	1	85	3	2	3	20	84
Future Vol, veh/h	27	76	171	1	47	1	85	3	2	3	20	84
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	1	1	1	0	0	0	1	1	1	1	1	1
Mvmt Flow	29	82	184	1	51	1	91	3	2	3	22	90
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.3	8.1	8.8	8.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	94%	10%	2%	3%
Vol Thru, %	3%	28%	96%	19%
Vol Right, %	2%	62%	2%	79%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	90	274	49	107
LT Vol	85	27	1	3
Through Vol	3	76	47	20
RT Vol	2	171	1	84
Lane Flow Rate	97	295	53	115
Geometry Grp	1	1	1	1
Degree of Util (X)	0.134	0.338	0.069	0.138
Departure Headway (Hd)	4.981	4.124	4.704	4.332
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	719	872	760	826
Service Time	3.018	2.148	2.74	2.368
HCM Lane V/C Ratio	0.135	0.338	0.07	0.139
HCM Control Delay	8.8	9.3	8.1	8.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.5	1.5	0.2	0.5





**LANCASTER  
ENGINEERING**

321 SW 4th Ave., Suite 400  
Portland, OR 97204  
phone: 503.248.0313  
fax: 503.248.9251  
lancasterengineering.com

## Technical Memorandum

**To:** Tony Doran, City of Tualatin  
**Copy:** Frank Angelo, Angelo Planning  
**From:** Todd E. Mobley, PE  
**Date:** January 5, 2018  
**Subject:** TVF&R Station 39 – Transportation Impact Study Addendum #1

### *Introduction*

At your request, this memorandum is written to provide a comparison of the proposed Tualatin Valley Fire and Rescue Station #39 with a reasonable worst-case development that could be constructed on the site under the existing industrial zone. The fire station is allowed as a conditional use in the existing zone and an examination of how the fire station affects conditions at the planning horizon is also included.

### *Trip Generation Comparison*

As shown in the Transportation Impact Study<sup>1</sup>, the fire station is expected to generate a total of 12 trips during the morning peak hour, 4 trips during the evening peak hour, and a weekday total of 54 trips.

To estimate potential trip generation of the building if it were to be re-occupied by an industrial user that is allowed in the current zone, trip rates from the *Trip Generation Manual*<sup>2</sup> were used. The trip rates are from land-use category 110, General Light Industrial and are based on the building square footage. The results of the trip generation calculations show that an industrial use of the fire station building would generate 9 trips during the morning peak hour, 9 trips during the evening peak hour, and a total of 66 weekday trips. The table below shows a summary of the trip generation comparison.

**Table 1: Trip Generation Comparison**

Land Use	Size	AM Peak Hour	PM Peak Hour	Weekday
Proposed Fire Station	9,500 sf	12	4	54
General Light Industrial	9,500 sf	9	9	66
Net Increase in Trips		3	-5	-12

<sup>1</sup> Tualatin Valley Fire & Rescue Station #39 Rivergrove, Transportation Impact Study, Table 2 on page 7

<sup>2</sup> Institute of Transportation Engineers (ITE), Trip Generation Manual, 9<sup>th</sup> Edition, 2012.



January 5, 2018  
Page 2 of 2

***Planning Horizon Conditions***

As shown in Table 1, the proposed fire station represents a reduction in trip generation during the evening peak hour and over a typical weekday and only a minor increase during the morning peak hour. The two uses are very similar in trip generation and the proposed conditional use for the fire station does not increase the trip generation of the site above what would be allowed outright in the zone.

As such, development of this intensity is already considered in the City of Tualatin's Comprehensive Plan, including the Transportation System Plan (TSP) and its planning-horizon analyses. There will be no long-term traffic impacts to surrounding streets and intersections above what is already considered in the TSP as a result of the proposed fire station.



**TRIP GENERATION CALCULATIONS**

*Land Use:* General Light Industrial  
*Land Use Code:* 110  
*Variable:* 1,000 Square Feet  
*Variable Quantity:* 9.5

**AM PEAK HOUR**

*Trip Rate:* 0.92

	Enter	Exit	Total
Directional Distribution	88%	12%	
Trip Ends	<b>8</b>	<b>1</b>	<b>9</b>

**PM PEAK HOUR**

*Trip Rate:* 0.97

	Enter	Exit	Total
Directional Distribution	12%	88%	
Trip Ends	<b>1</b>	<b>8</b>	<b>9</b>

**WEEKDAY**

*Trip Rate:* 6.97

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>33</b>	<b>33</b>	<b>66</b>

**SATURDAY**

*Trip Rate:* 1.32

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>6</b>	<b>6</b>	<b>12</b>

# Tualatin Valley Fire & Rescue Station 39



## *Conditional Use Application*

**Submitted by:** Tualatin Valley Fire & Rescue (TVF&R)  
11945 SW 70<sup>th</sup> Avenue  
Tigard, OR 97223  
503-649-8577

**Prepared by:** Angelo Planning Group (APG)  
921 SW Washington Street, Suite 468  
Portland, OR 97205  
503-224-6974



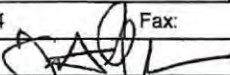
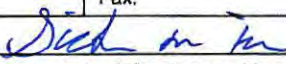
**December 2017**



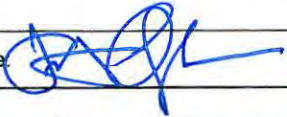
# City of Tualatin

www.tualatinoregon.gov

## APPLICATION FOR CONDITIONAL USE PERMIT

Code Information:			
Code Section: Section 60.040(1)(f)		Condition Use to Allow: Fire Station	
Assessor's Map Number: 2S I 13DD	Tax Lot #: 1601	Lot area in acres: 1.16	
Address of Property: Adjacent to 7100 SW McEawan			
City: Tualatin	State: OR	ZIP Code: 97062	
Existing Buildings (# and type): 0		Current use: Vacant	
Applicant			
Name: Frank Angelo		Company Name: Angelo Planning Group	
Address: 921 SW Washington Street, Suite 468			
City: Portland	State: OR	ZIP Code: 97205	
Phone: 503-227-3664	Fax:	Email: fangelo@angeloplanning.com	
Applicant's Signature: 		Date: 12/5/17	
Property Owner			
Name: Tualatin Valley Fire & Rescue, Siobhan Kirk			
Address: 11945 SW 70th Avenue			
City: Tigard	State: OR	ZIP Code: 97223	
Phone: 503-649-8577	Fax:	Email: Siobhan.Kirk@tvfr.com	
Property Owner's Signature: 		Date: 12-06-2017	
(Note: Letter of authorization is required if not signed by owner)			
Contact			
Name:			
Address:			
City:	State:	ZIP Code:	
Phone:	Fax:	Email:	

As the person responsible for this application, I, the undersigned, hereby acknowledge that I have read the above application and its attachments, understand the requirements described herein, and state that the information supplied is as complete and detailed as is currently possible, to the best of my knowledge.

Applicant's Signature: 	Date: 12/7/17
--	---------------

Office Use		
Case No:	Date Received:	Received by:
Fee: Complete Review:	Receipt No:	

## Project Team

<b>Applicant:</b>	Siobhan Kirk Tualatin Valley Fire & Rescue (TVF&R) 11945 SW 70th Avenue Tigard, OR 97223 Phone: 503-259-1219 Email: <a href="mailto:Siobhan.Kirk@tvfr.com">Siobhan.Kirk@tvfr.com</a>
<b>Land Use Planning:</b>	Frank Angelo, Principal Angelo Planning Group 921 SW Washington Street, Suite 468 Portland, OR 97205 Phone: 503-227-3664 Email: <a href="mailto:fangelo@angeloplanning.com">fangelo@angeloplanning.com</a>
<b>Architect:</b>	Michael Bonn, AIA Ankrom Mosian Architects 38 NW Davis Street #300 Portland, OR 97209 Phone: 503-245-7100 Email: <a href="mailto:MichaelB@ankrommoisan.com">MichaelB@ankrommoisan.com</a>
<b>Civil Engineering</b>	Bruce Baldwin AKS Engineering 12965 SW Herman Road #100 Tualatin, OR 97062 Phone: 503-563-6151 Email: <a href="mailto:bruce@aks-eng.com">bruce@aks-eng.com</a>
<b>Transportation Engineering</b>	Todd Mobley Lancaster Engineering 321 SW 4 <sup>th</sup> Avenue Portland, OR 97204 Phone: 503-248-0313 Email: <a href="mailto:todd@lancasterengineering.com">todd@lancasterengineering.com</a>

**Development Application Summary Information**

<b>Site Address</b>	Adjacent to 7100 SW McEwan Rd, Tualatin, OR 97062
<b>Tax Lot ID</b>	2S1 13DD TL 1601
<b>Current Zoning</b>	Light Manufacturing (ML)
<b>Applications Submitted</b>	Conditional Use Permit
<b>Site Size</b>	1.16 acres

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**Development Application for TVF&R Station 39**

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    Site and Context.....1  
    Technical Details .....1  
    Neighborhood and Community Outreach .....1  
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**Section 2: Tualatin Development Code..... 4**  
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**Summary ..... 6**

**List of Figures**

- Figure 1 – Vicinity Map
- Figure 2 – Zoning Map

**List of Exhibits**

- Exhibit 1 – Pre-Application Request and Form
- Exhibit 2 – Station 39 Site Plan and Building Elevations
- Exhibit 3 – Transportation Impact Study (under separate cover)
- Exhibit 4 – Clean Water Services (CWS) Service Provider Letter
- Exhibit 5 – Washington County Assessor Map
- Exhibit 6 – Neighborhood/Developer Meeting Notice and Materials
- Exhibit 7 – Order Granting Plaintiff’s Motion of Immediate Possession (Case No. 17CV14497)
- Exhibit 8 - Lett from Cynthia Fraser (on behalf of TVF&R) to Sean Brady (City Attorney)



## Section 1: Project Information

### General Description

Tualatin Valley Fire & Rescue (TVF&R) is seeking Conditional Use approval from the City of Tualatin to construct a new fire station (Station 39) on tax lot 1601, located on SW McEwan Road, south of SW Boones Ferry Road (see Figure 2).

### Site and Context

The site is a new tax lot approximately 1.16 acres in size (see Exhibit 5).<sup>1</sup> The site for Station 39 is zoned Light Industrial (ML), as shown in Figure 2. The site has frontage on SW McEwan and is surrounded on three sides by U-Haul, a storage facility permitted in the ML zone. Additional storage facilities are located across SW McEwan from the subject site. Other prominent features around the site include Interstate 5 to the west with commercial shopping area beyond that; and the P&W rail line to the south and east with additional light manufacturing and residential areas zoned for medium-high density dwellings.

### Technical Details

The proposed building will be a single-story, hip roofed fire station approximately 9,500 square feet and will include a 600-square foot community room (see Exhibit 2 for preliminary site plan drawings and building elevations). The building will house the station's firefighters and have an interior two-space parking bay for fire trucks and necessary emergency apparatus. There are 12 staff and 21 public (33 total) parking spaces proposed on-site to serve the fire station and community room. Station 39 will include 24-hour staffing starting with four persons per shift and ultimately grow to six-person shifts.<sup>2</sup>

The building will look similar to TVF&R Station 55 which is currently under construction in the City of West Linn. The primary exterior building materials will consist of brick masonry veneer, metal wall panels, and precast concrete. Other materials include metal clad wood windows, steel apparatus bay doors, standing seam metal roofing, and hollow metal and aluminum entrance doors.

### Neighborhood and Community Outreach

A formal Neighborhood/Developer Meeting was held on November 7, 2017. The meeting was held at Juanita Pohl Center at 8513 SW Tualatin Road. TVF&R representatives reviewed the proposed project, the need for the new station, and described the architectural features. The audience asked a number of questions. Additional information on the Neighborhood/Developer Meeting, including the list of recipients for the mailed notice, and presentation materials, can be found in Exhibit 6.

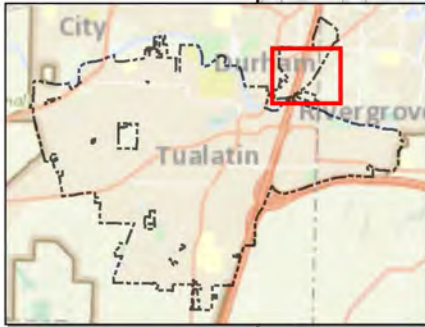
### Project Schedule


Following approval of the Conditional Use for Station 39, TVF&R will submit an Architectural Review 2 application for the building to the City of Tualatin. Assuming Architectural Review approval in early summer, construction of Station 39 could begin in the fall of 2018 with occupancy and operation by the end of 2019.

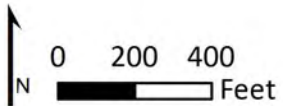
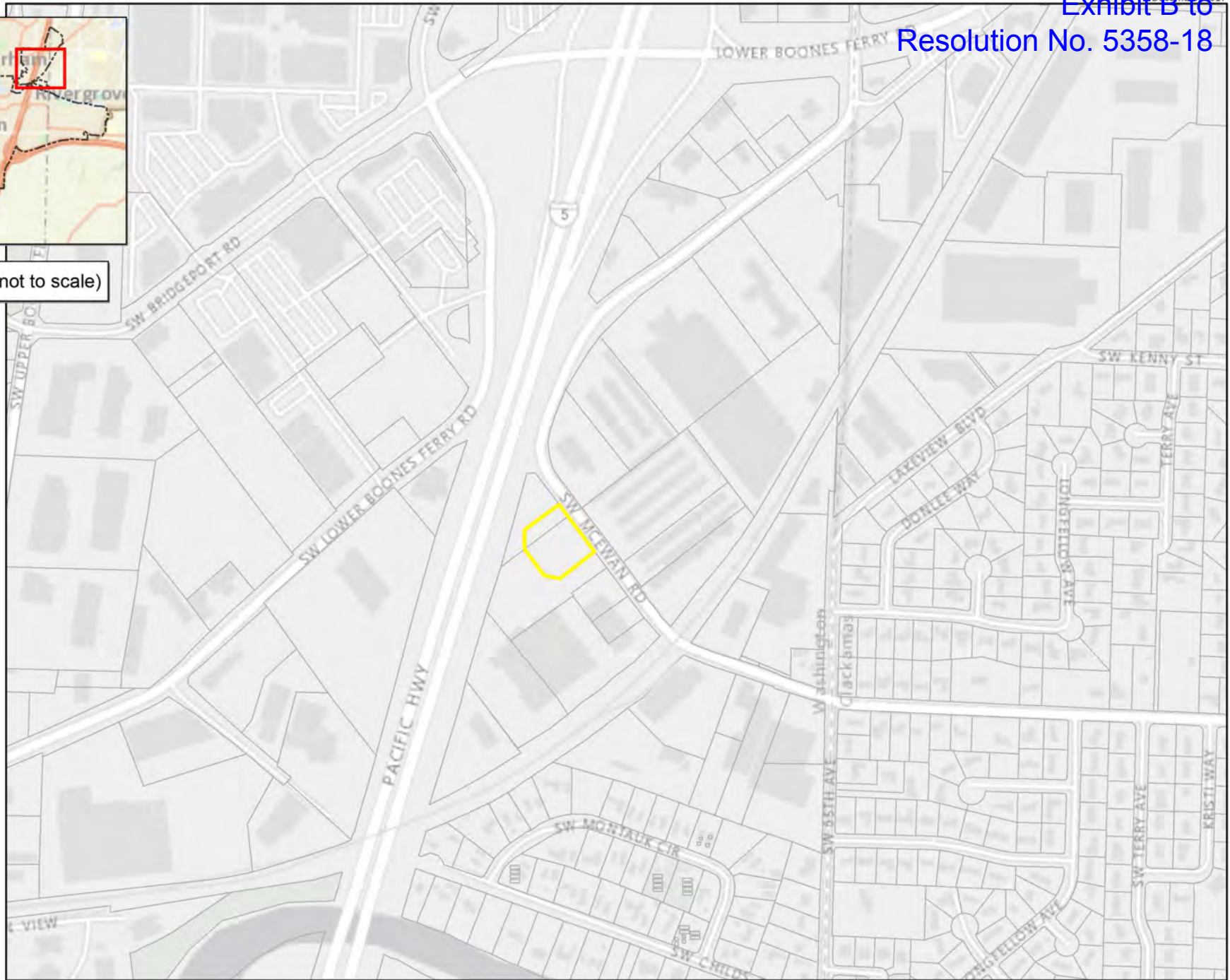
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<sup>1</sup> See Exhibits 7 and 8. On May 4, 2017, the Washington County Circuit Court granted plaintiffs (TVF&R) Motion for Entry of an Order of Immediate Possession. Accordingly, as of May 5, 2014, TVFR has immediate legal possession of the property, and as such may proceed with moving forward with its project.

<sup>2</sup> The maximum occupancy (six staff) is used in the transportation impact study as evaluated in Exhibit 3



 Station 39 (not to scale)

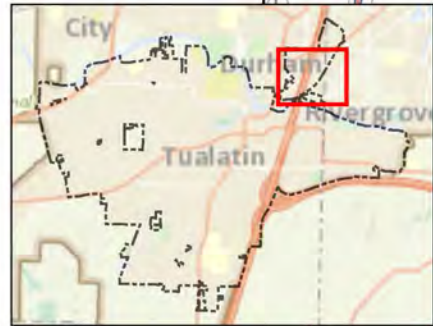


**TVF&R Station 39  
Vicinity Map**



**Figure  
1**

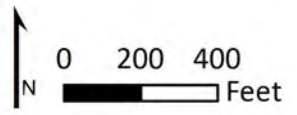
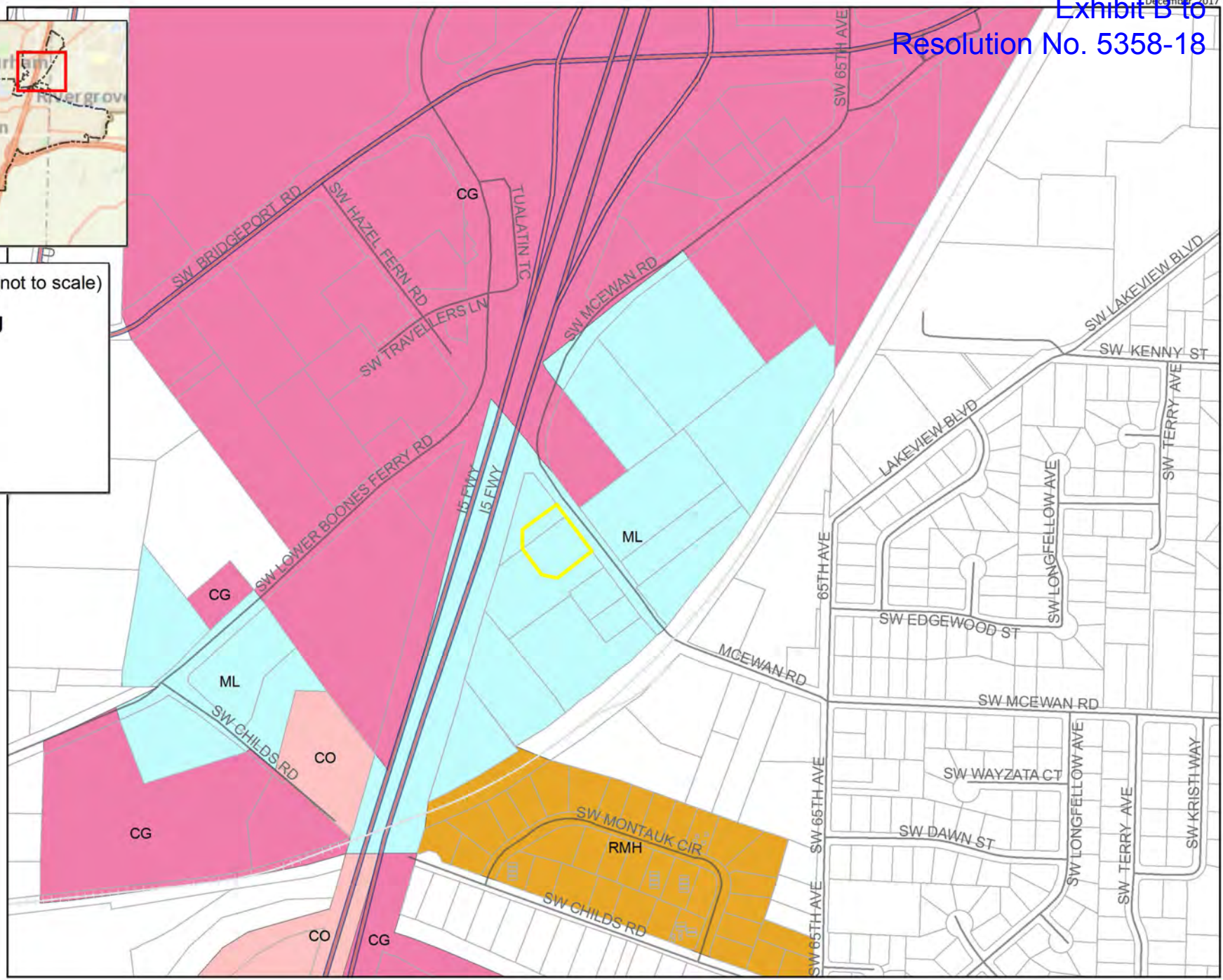
Coordinate System: NAD 1983 HARN StatePlane Oregon North FIPS 3601 Feet Intl  
Data Sources:



Station 39 (not to scale)

**Tualatin Zoning**

- CG
- CO
- ML
- RMH



Tualatin Zoning  
TVF&R Station 39



Figure 2

Coordinate System: NAD 1983 HARN StatePlane Oregon North FIPS 3601 Feet Intl  
Data Sources:

M:\Projects\006034 TVF Station 39 (Tualatin)\2017 Project\Map\Figures\zoning.mxd - cdoxsee - 11/28/2017

## Section 2: Tualatin Development Code

### Light Manufacturing Planning District (ML) (TDC Chapter 60)

Station 39 is located in the ML zoning district. As noted in TDC Section 60.040(1)(f), a Fire Station is permitted in the ML zone as a Conditional Use.

### Conditional Use Approval Criteria (TDC 32.030)

Pursuant to Section 32.030, Tualatin City Council may allow a conditional use, after conducting a public hearing, provided that the applicant, TVF&R demonstrates a fire station satisfies the following criteria.

- (1) The use is listed as a conditional use in the underlying planning district.

*Response: Station 39 is located in the ML zoning district. As noted in TDC Section 60.040(1)(f), a Fire Station is permitted in the ML zone as a Conditional Use.*

- (2) The characteristics of the site are suitable for the proposed use, considering size, shape, location, topography, existence of improvements and natural features.

*Response: The site characteristics are compatible with other TVF&R stations throughout the District. The site size (1.16 acres) is consistent with comparable TVF&R stations and can accommodate the building program for Station 39. There are no topographic or natural features on the site that will impact construction of Station 39. TVF&R has identified the location as an appropriate location to meet required service response standards and needs of the District. It's location near Interstate 5 will provide quick response to incidents on the freeway as well as quick emergency response to the surrounding community. TVF&R's Station 34 is located in the City of Tualatin but is on the westside of Interstate 5 just off Tualatin Sherwood Road (19365 SW 90th Court). Station 39's location on the eastside of Interstate 5 will significantly enhance response times for emergency services, making this location very suitable for the proposed use.*

- (3) The proposed development is timely, considering the adequacy of transportation systems, public facilities, and services existing or planned for the area affected by the use.

*Response: The construction of the proposed Station 39 is funded through General Fund and a Local Option Levy approved by District voters in 2014 to upgrade and improve the safety and operations of TVF&R's fire stations. TVF&R identified the need for a station in this location to ensure quick response times in the future as development continues in Tualatin, Lake Oswego, and Tigard. Public services are immediately available to the site. As noted in the Traffic Impact Analysis submitted with this application (Exhibit 3), Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.*

- (4) The proposed use will not alter the character of the surrounding area in any manner that substantially limits, impairs, or precludes the use of surrounding properties for the primary uses listed in the underlying planning district.

*Response: The location of Station 39 will allow uses on the property immediately adjacent to Station 39 to continue operating and will not limit or preclude the use of surrounding property. As can be seen on the attached Station 39 site plan (Exhibit 2), TVF&R will take direct access to SW McEwan Road and will not impede or conflict with access to surrounding properties. The Traffic Impact Analysis submitted with this application indicates that Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.*

*The site plan also notes how stormwater will be accommodated on-site and in a manner that will not impact adjacent properties. As well landscaping provided with the project will create a visual buffer between Station 39 and adjacent properties.*

*The emergency services use is not out of character with surrounding land uses in the ML zone. Medical offices are located across SW McEwan from Station 39. As can be seen from the building elevations submitted with this application Station 39 will be an appropriate design and will not be out of character with existing industrial and office buildings on surrounding properties.*

- (5) The proposal satisfies those objectives and policies of the Tualatin Community Plan that are applicable to the proposed use.

Response: *The Tualatin Community Plan, which is the City comprehensive plan, is integrated within the Tualatin Development Code (TDC) as Chapters 1-30. Based on discussions with City of Tualatin staff, the following two sections of the TDC are applicable to the proposed use:*

A. *Section 7.040 Manufacturing Planning District Objectives.*

*This section describes the purpose of each manufacturing planning district.*

*(2) Light Manufacturing Planning District (ML)*

*(a) Suitable for warehousing, wholesaling and light manufacturing processes that are not hazardous and that do not create undue amounts of noise, dust, odor, vibration, or smoke. Also suitable, with appropriate restrictions, are the retail sale of products not allowed for sale in General Commercial areas, subject to the Special Commercial Setback from arterial streets and Commercial Services Overlay as generally illustrated in [Map 9-5](#) and specifically set forth in [TDC 60.035](#), and office commercial uses where any portion of a legally created lot is within 60 feet of a CO Planning District boundary. Also suitable is the retail sale of products manufactured, assembled, packaged or wholesaled on the site provided the retail sale area, including the showroom area, is no more than 5% of the gross floor area of the building not to exceed 1,500 square feet. Also suitable for the retail sale of home improvement materials and supplies provided it is not greater than 60,000 square feet of gross floor area per building or business and subject to the Special Commercial Setback from arterial streets as generally illustrated in [Map 9-5](#) and specifically set forth in [TDC 60.035](#). Rail access and screened open storage allowed in these areas will conform to defined architectural, landscape and environmental design standards.*

B. *Chapter 60: Light Manufacturing Planning District (ML)*

*Section 60.010 Purpose.*

*The purpose of this district is to provide areas of the City that are suitable for industrial uses and compatible with adjacent commercial and residential uses. The district serves to buffer heavy manufacturing uses from commercial and residential areas. The district is suitable for warehousing, wholesaling, and light manufacturing processes that are not hazardous and do not create undue amounts of noise, dust, odor, vibration, or smoke. The district is also suitable for retail sale of products manufactured, assembled, packaged or wholesaled on the site provided the retail sale area, including the showroom area, is no more than 5% of the gross floor area of the building not to exceed 1,500 square feet and, with appropriate restrictions, for retail sale of products not allowed for sale in General Commercial Planning Districts, and office commercial uses where any portion of a legally created lot is within 60 feet of a CO Planning District boundary. Railroad access and screened outdoor storage will be allowed in this district, conforming to defined architectural, landscape, and environmental design standards. In accordance with the Industrial Business Park Overlay District, [TDC Chapter 69](#), and [TDC 60.037-60.038](#) selected small-scale mixed uses that are supportive of and secondary to industrial uses are allowed to provide services to businesses and employees. The purpose is also to allow certain commercial service uses in the Commercial Services Overlay shown in the specific areas illustrated on [Map 9-5](#) and selected commercial uses subject to distance restrictions from residential areas and subject to the Special Commercial Setback from arterial streets as generally illustrated in [Map 9-5](#) and specifically set forth in [TDC 60.035](#).*

*Locating TVF&R Station 39 in the ML district is appropriate. As noted in TDC Section 60.040(1)(f), a Fire Station is permitted in the ML zone as a Conditional Use. The use is not hazardous and will not create undue amounts of noise, dust, odor, vibration, or smoke. Any noise generated will be limited. Station 39 will not require sirens to sound at or near the site. Fire personnel are not required to sound sirens when leaving the station, the lights on the apparatus normally are sufficient to stop traffic. The only time the fire apparatus operators would be required to use their sirens would be when they pass through a traffic signal. Regardless, there are no noise sensitive uses near the site.*

*The City's comprehensive plan is designed to promote public health, safety, and welfare. Providing opportunities for emergency services to operate within the City is a critical aspect of community health, safety, and welfare. As noted earlier, locating Station 39 at this site will allow TVF&R to achieve their emergency services response times. As well, the Traffic Impact Analysis submitted with this application indicates that Station 39 traffic will not adversely impact the existing transportation system. The analysis notes that Station 39 will generate a small number of daily trips that can easily be accommodated on the transportation system.*

### **Summary**

This proposal for Conditional Use approval for Station 39 satisfies the objectives and policies of the Tualatin Community Plan that are applicable to the proposed use. Therefore, the Conditional Use should be approved.

Exhibits

**Exhibit 1 – Pre-Application Form**

**Exhibit 2 – Station 39 Site Plan and Building Elevations**

**Exhibit 3 – Transportation Impact Study**

**Exhibit 4 – Clean Water Services (CWS) Service Provider Letter**

**Exhibit 5 – Washington County Assessor Map**

**Exhibit 6 – Neighborhood/Developer Meeting Notice and Materials**

**Exhibit 7 – Order Granting Plaintiff’s Motion of Immediate Possession (Case No. 17CV14497)**

**Exhibit 8 - Letter from Cynthia Fraser (on behalf of TVF&R) to Sean Brady (City Attorney)**



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MEMORANDUM

**TVF&R Station 39**  
Pre-Application Conference Request

DATE September 11, 2017  
TO City of Tualatin  
FROM Frank Angelo, APG  
CC Siobhan Kirk, TVF&R  
Jennifer Jenkins, Ankrom Mosian Architects  
Michael Bonn, Ankrom Moisan Architects  
Bruce Baldwin, AKS  
Todd Mobley, Lancaster Engineering  
Jamin Kimmel, APG

---

Tualatin Valley Fire & Rescue is proposing to develop a new fire station (Station 39) on SW McEwan Road south of SW Boones Ferry Road. The new station will be approximately 9,500 square feet and will include a 600-square foot community room. The building will house the station's firefighters and have an interior two-space parking bay for fire trucks and necessary emergency apparatus. There are 36 parking spaces proposed on-site to serve the fire station and community room. Station 39 will include 24-hour staffing starting with 4 persons per shift and ultimately growing to 6 person shifts. The building will look similar to TVF&R Station 55 which is currently under construction in the City of West Linn.

Questions for the Pre-Application Conference

1. Describe the Conditional Use and Architectural review standards, review procedures and schedule.
2. Discuss Neighborhood Meeting requirements.
3. Identify Transportation Assessments that will be required (if any).
4. Describe CWS review requirements.

Attachments: Pre-Application Conference Form  
Station 39 Preliminary Site Plan  
Station 39 Preliminary Building Elevations  
Pre-Application Fee (provided separately)





# City of Tualatin

COMMUNITY DEVELOPMENT PLANNING DIVISION

## Pre-Application Meeting Request

The purpose of the Scoping and Pre-Application meetings is to offer early assistance in the land use and permitting process. This includes thoughtful feedback on preliminary design direction and visioning, outlining expectations, and to assist the applicant in attaining a complete application at first submittal.

### PROJECT DESCRIPTION

Project name/title: TVF&R Station 39

What is the primary purpose of this pre-application meeting (What would you like to accomplish)? (Attach additional sheets if needed.)

- Review Station 39 site plan

- Discuss site issues

- Determine review processes & standards

### PROPERTY INFORMATION

Property address/location(s): Adjacent to  
7100 SW McEwan, Tualatin, OR 97062

Tax map and tax lot no.(s): 2S 113DD TL 1600/1700

Zoning: ML

### PROPERTY OWNER/HOLDER INFORMATION

Name(s): Tualatin Valley Fire & Rescue  
c/o Siobhan Kirk

Address: 11945 SW 70th Ave Phone: 503.649.8577

City/state: Tigard, OR Zip: 97223

### APPLICANT INFORMATION

Name: Angelo Planning Group

Address: 921 SW Washington St Phone: 503.649.8577

City/state: Portland, OR Zip: 97205

Contact person: Frank Angelo

Phone: 503.227.3664 Email: fangelo@angeloplanning.com

### Pre-application Conference Information

All of the information identified on this form is required and must be submitted to the Planning Division with this application. Conferences are scheduled subject to availability and a minimum of two weeks after receiving this application and all materials. Pre-application conferences are one (1) hour long and are typically held on Mondays between the hours of 3-4 p.m. or Wednesdays between 2-4 p.m.

If more than four (4) people are expected to attend the pre-application conference in your group, please inform the City in advance so that alternate room arrangements can be made to accommodate the group.

### REQUIRED SUBMITTAL ELEMENTS

*(Note: Requests will not be accepted without the required submittal elements)*

- A complete application form and accompanying fee.
- 1 hard copy and an electronic set of the following:**
  - Preliminary site and building plans, drawn to scale, showing existing and proposed features. (Plans do not need to be professionally prepared; just accurate and reliable.)
  - A detailed narrative description of the proposal that clearly identifies the location, existing and proposed uses, and any proposed construction.
  - A list of all questions or issues the applicant would like the City to address.

### FOR STAFF USE ONLY

Case No.: \_\_\_\_\_

Related Case No.(s): \_\_\_\_\_

Application fee: \_\_\_\_\_

Application accepted: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_

Date of pre-app: \_\_\_\_\_

Time of pre-app: \_\_\_\_\_

Planner assigned to pre-app: \_\_\_\_\_

What type of development are you proposing? (Check all that apply)

Industrial  Commercial  Residential  Institutional  Mixed-use

Please provide a brief description of your project: (Attach additional sheets if needed.) Please include description of existing uses and structures in addition to what is proposed.

Construct a new TVF&R fire station (Station 39). Will include a community room.

---

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Are you familiar with the development process in Washington or Clackamas County or Tualatin?

Yes  No

If yes, please identify an example project:

TVF&R Station 34 in Tualatin

---

Are you familiar with the sections of the Tualatin Development Code (TDC) that pertain to your proposed development?

Yes  No

Is the property under enforcement action? If yes, please attached a notice of the violation.

Please provide the names of City, TVF&R, CWS, and County staff with whom you have already discussed this proposal:

Scoping meeting held with City staff on March 6, 2016

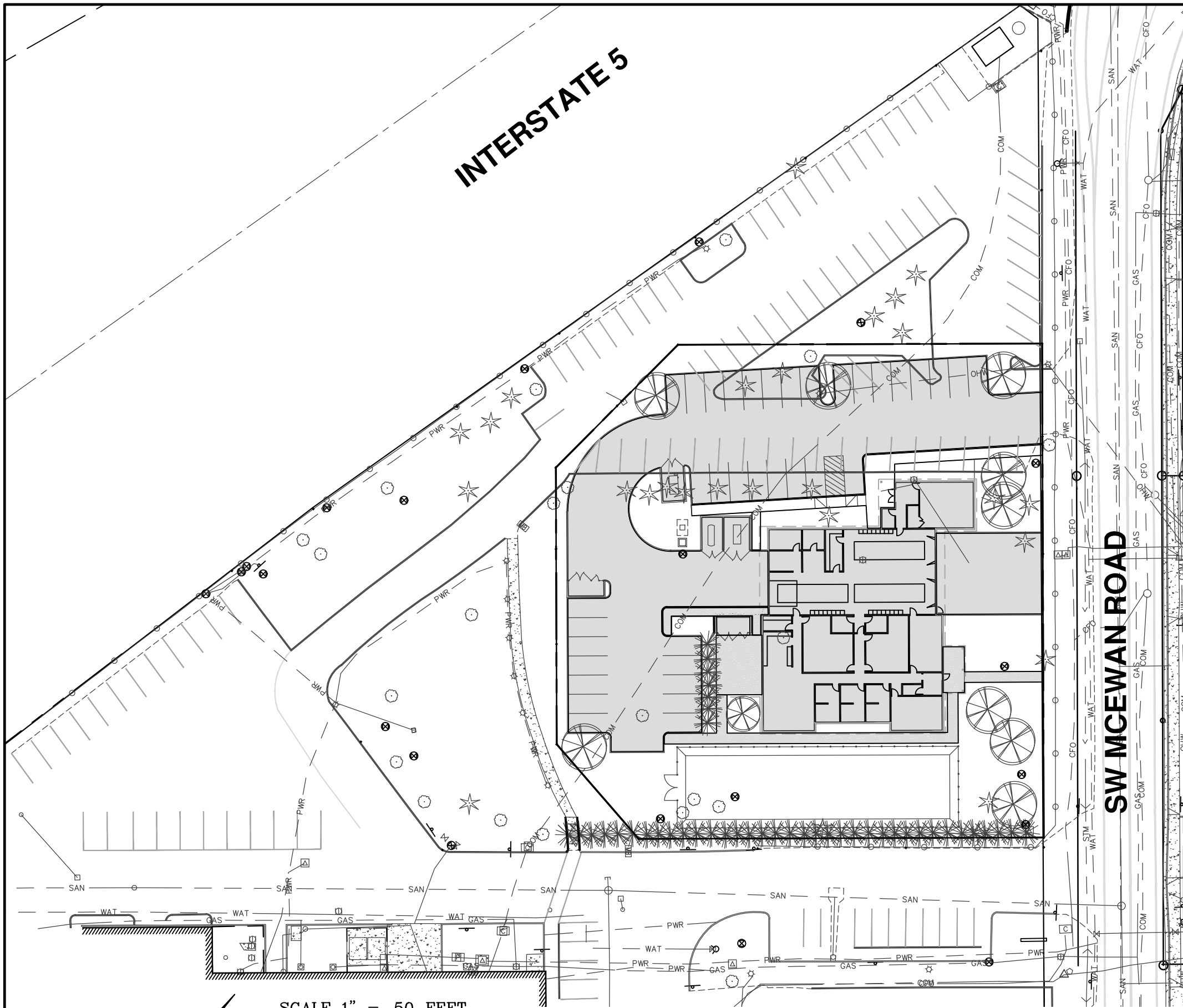
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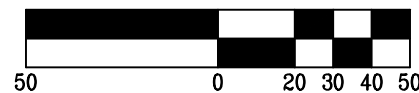
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INTERSTATE 5

SW MCEWAN ROAD



SCALE 1" = 50 FEET



NOTE: SCALE BAR ACCURATE  
WHEN PLOTTED ON 11"x17" SHEET

DATE: 09/07/2017

<b>SITE FIT PLAN</b>	<b>EXHIBIT</b>
<b>TVFR STATION 39</b>	<b>A</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 P: 503.563.6151 F: 503.563.6152 aks-eng.com	DRWN: LTP CHKD: BRB AKS JOB: 4756





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PORTLAND, OR 97209  
T 503.245.7100

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SEATTLE, WA 98101  
T 206.576.1600  
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**TVF&R Station 55 - Rosemont**

20790 Hidden Springs Rd  
West Linn, OR 97068

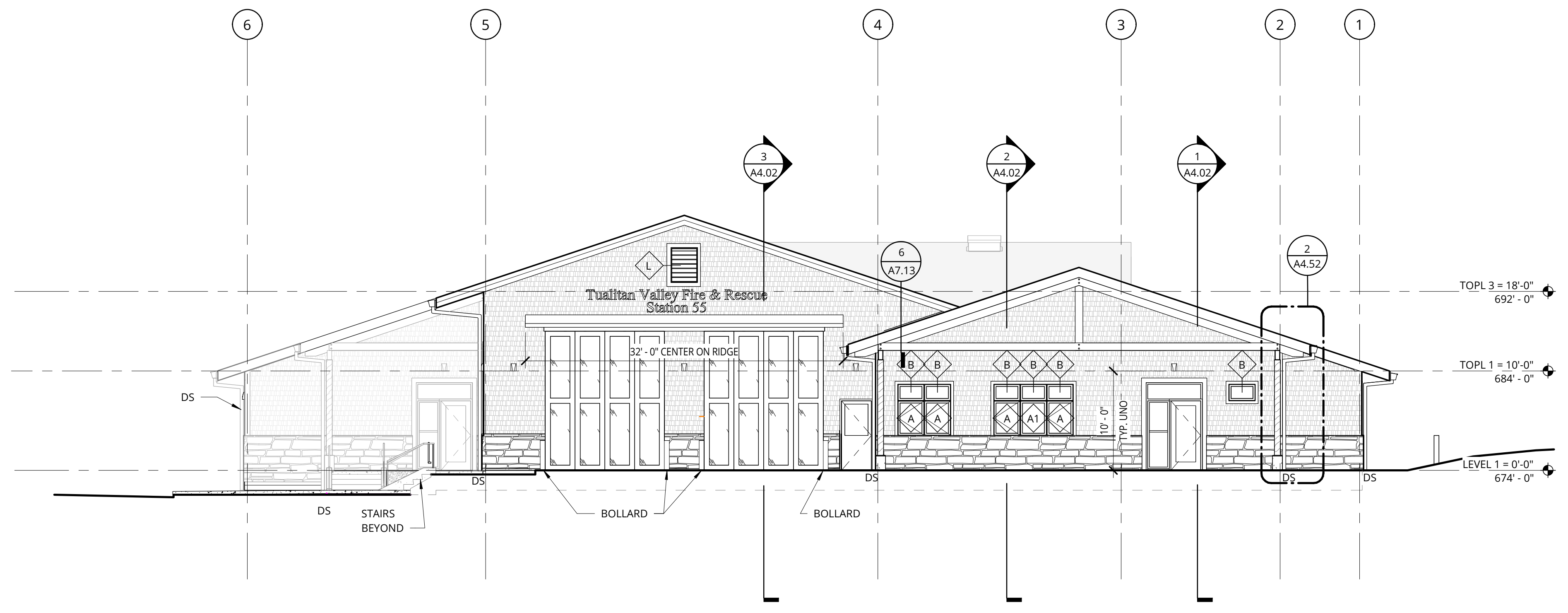
Tualatin Valley Fire & Rescue

**GENERAL NOTES - EXTERIOR ELEVATIONS**

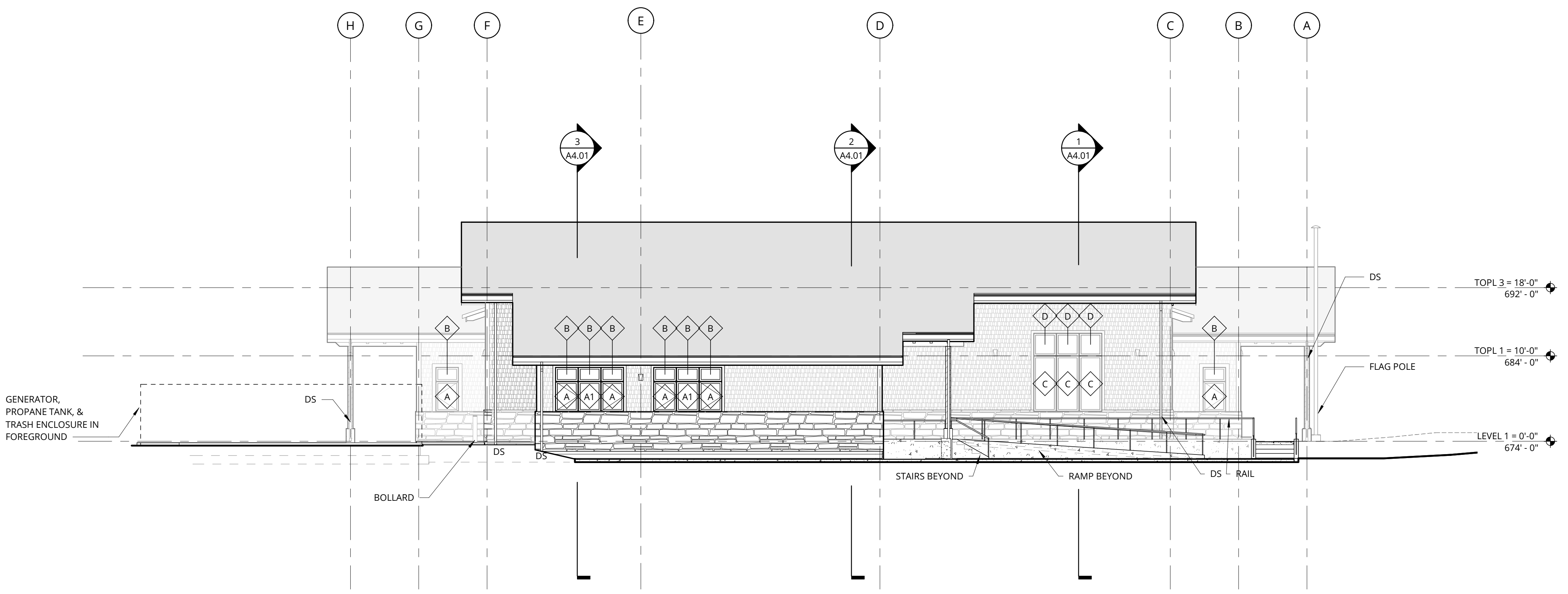
- EXTERIOR ELEVATIONS
1. REFER TO SHEET A0.01 FOR 'PROJECT NOTES' APPLICABLE TO ALL PORTIONS OF THE WORK
  2. ELEVATIONS NOTED ARE RELATIVE TO SEA LEVEL (OR PROJECT DATUM)
  3. SEE SHEET A12.21 FOR WINDOW SCHEDULE
  4. SEE DOOR SCHEDULE SHEET A12.01 FOR DOOR LOCATIONS AND TYPES.
  5. SEE ENLARGED ELEVATIONS AND WALL SECTIONS FOR ADDITIONAL EXTERIOR ENVELOPE DETAILS.

**MATERIALS - LEGEND**

- FIBER CEMENT SHINGLE SIDING
- SIMULATED STONE
- EXPOSED TIMBER FRAMING
- ASPHALT ROOF SHINGLES
- EXTERIOR LIGHTING
- DOWNSPOUT



**1 NORTH ELEVATION**  
1/8" = 1'-0"



**2 EAST ELEVATION**  
1/8" = 1'-0"

REVISION	DATE	REASON FOR ISSUE

N & E EXTERIOR ELEVATIONS

CONSTRUCTION SET

DATE 06/16/17	REVISION
PROJECT NUMBER 160420	SHEET NUMBER A3.11
SCALE As indicated	



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**TVF&R Station 55 - Rosemont**  
 20790 Hidden Springs Rd  
 West Linn, OR 97068

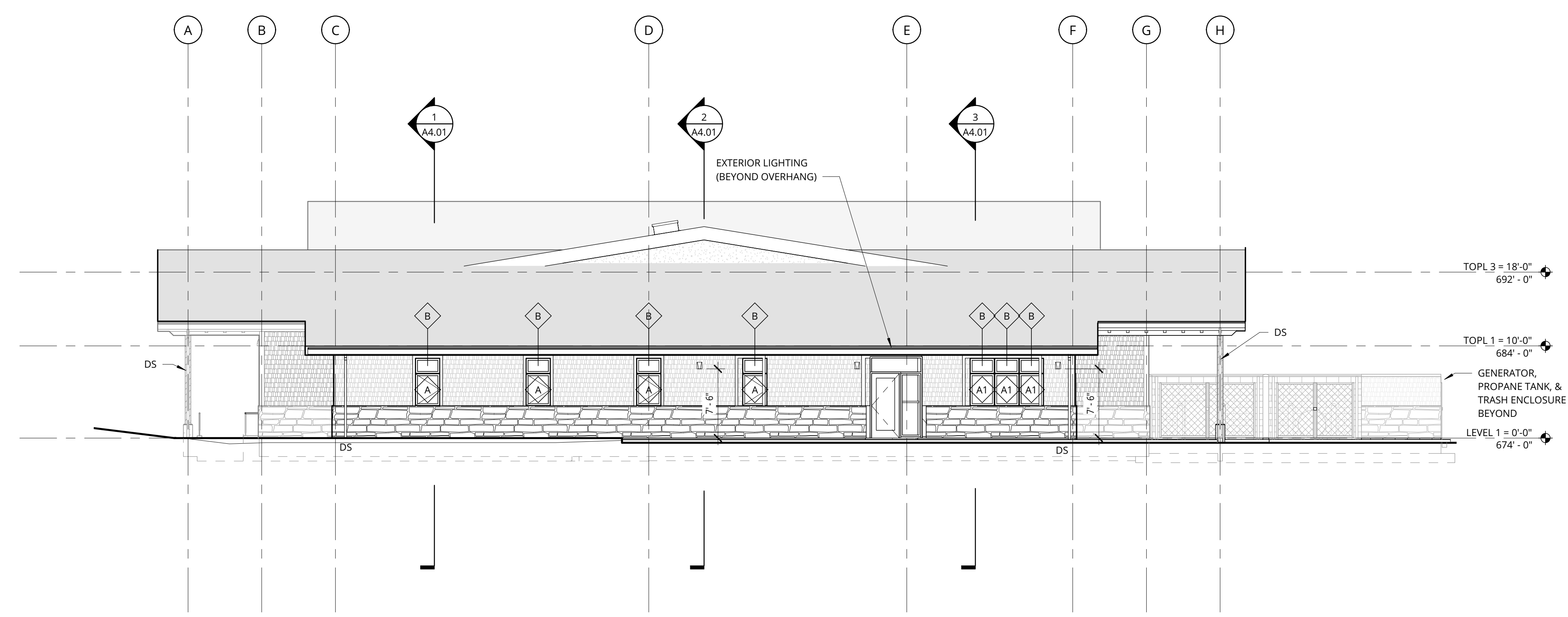
Tualatin Valley Fire & Rescue

**GENERAL NOTES - EXTERIOR ELEVATIONS**

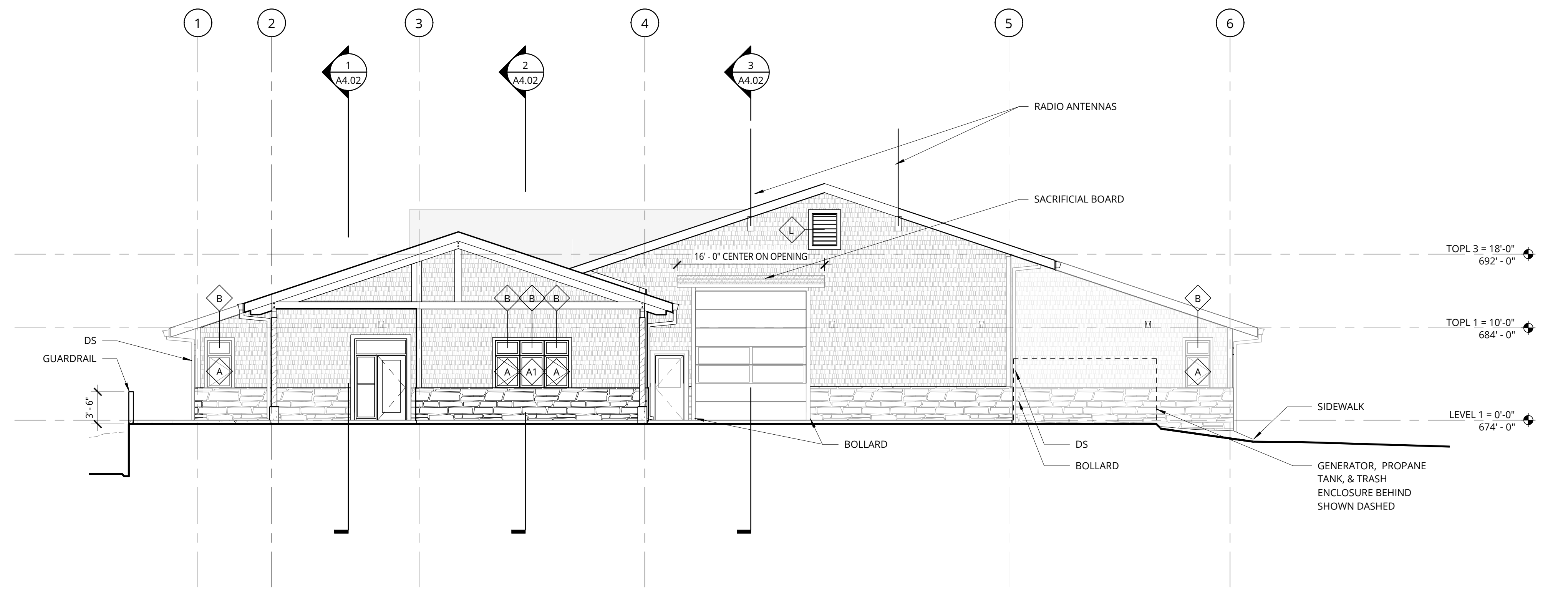
- EXTERIOR ELEVATIONS**
- REFER TO SHEET A0.01 FOR 'PROJECT NOTES' APPLICABLE TO ALL PORTIONS OF THE WORK. ELEVATIONS NOTED ARE RELATIVE TO SEA LEVEL (OR PROJECT DATUM).
  - SEE SHEET A12.21 FOR WINDOW SCHEDULE.
  - SEE DOOR SCHEDULE SHEET A12.01 FOR DOOR LOCATIONS AND TYPES.
  - SEE ENLARGED ELEVATIONS AND WALL SECTIONS FOR ADDITIONAL EXTERIOR ENVELOPE DETAILS.

**MATERIALS - LEGEND**

- FIBER CEMENT SHINGLE SIDING
- SIMULATED STONE
- EXPOSED TIMBER FRAMING
- ASPHALT ROOF SHINGLES
- EXTERIOR LIGHTING
- DOWNSPOUT



**2 WEST ELEVATION**  
 1/8" = 1'-0"



**1 SOUTH ELEVATION**  
 1/8" = 1'-0"

REVISION	DATE	REASON FOR ISSUE

S & W EXTERIOR ELEVATIONS

CONSTRUCTION SET

DATE 06/16/17	REVISION
PROJECT NUMBER 160420	SHEET NUMBER A3.12
SCALE As indicated	

# TUALATIN VALLEY FIRE & RESCUE - STATION 39

SHEET NUMBER	SHEET NAME	CONDITIONAL USE - 11/22/17
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GENERAL		
CS	COVER SHEET	■
ARCHITECTURAL		
A1.01	SITE PLAN	■
A2.01	FLOOR PLAN	■
A2.03	ROOF PLAN	■
A3.11	BUILDING ELEVATIONS	■
A3.12	BUILDING ELEVATIONS	■

**NOT FOR CONSTRUCTION**

**TV F&R STATION 39 - TUALATIN**  
7100 SW MCEWAN  
TUALATIN, OR 97062  
TUALATIN VALLEY FIRE & RESCUE

REVISION	DATE	REASON FOR ISSUE

**COVER SHEET**

**CONDITIONAL USE APPLICATION**

DATE 11/22/2017	PROJECT NUMBER 173470
SHEET NUMBER <b>CS</b>	

## CLIENT TEAM

**OWNER**  
TUALATIN VALLEY FIRE AND RESCUE  
13945 SW 70th AVE  
TIGARD, OR 97223  
**CONTACT: SIOBHAN KIRK**  
CONSTRUCTION PROJECT MANAGER  
PH: (503) 259-1219  
siohban.kirk@tvfr.com

**CIVIL  
& E.E. ENGINEERING**  
12965 SW HERMAN RD, SUITE 100  
TUALATIN, OR 97062  
**CONTACT: BRUCE BALDWIN**  
PH: (503)563-6151  
bruce@aks-eng.com

## DESIGN TEAM

**ARCHITECTURAL**  
ANKROM MOISAN ARCHITECTS  
38 NW DAVIS ST  
SUITE 300  
PORTLAND, OR 97209  
**CONTACT: MICHAEL BONN**  
(503) 245-1100  
michaeb@ankrommoisan.com

**STRUCTURAL**  
KFFP  
111 SW FIFTH AVE, SUITE 2500  
PORTLAND, OREGON 97204  
**CONTACT: STUART FINNEY**  
PH: (503)227-3251  
stuart.finney@kff.com

**MECHANICAL, ELECTRICAL, & PLUMBING**  
OTTEN INTERFACE ENGINEERING  
100 SW MAIN ST  
SUITE 1600  
PORTLAND, OR 97204  
**CONTACT: JEFFREY GLANVILLE**  
PH: (503)382-2266  
jeffreyg@interfaceeng.com

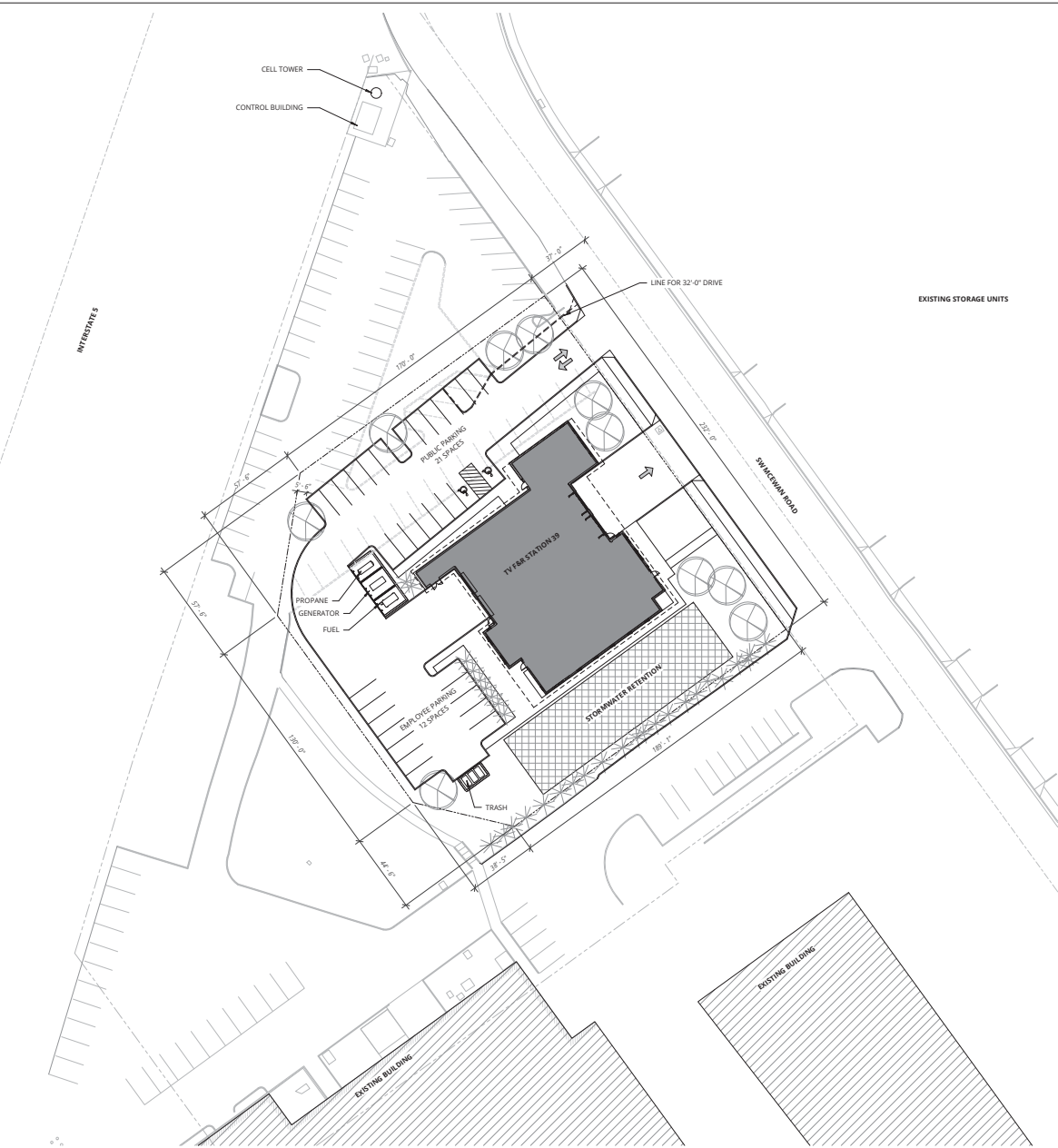
**LANDSCAPE**  
OTTEN LANDSCAPE ARCHITECTS  
3925 SW KELLY AVE, PORTLAND, OR 97239  
BEAVERTON, OREGON 97005  
**CONTACT: JANET OTTEN**  
PH: (503) 972-0312  
Janet@Ottenla.com

## CONSTRUCTION TEAM

**GENERAL CONTRACTOR**  
Emerick Construction Co.  
2955 SW MICHAWK ST  
TUALATIN, OR 97062  
**CONTACT: JORDAN FELL** jfell@emerick.com  
(503)332-5620  
bill@emerick.com  
**BILL JUDGE** (503)539-1471  
**LINDLEY BYNUM** lindley@emerick.com  
(503) 777-5531

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**1** ARCHITECTURAL SITE PLAN  
1" = 39'-0"



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REVISION	DATE	REASON FOR ISSUE

SITE PLAN

CONDITIONAL USE APPLICATION

DATE 11/22/2017	PROJECT NUMBER 173470
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SHEET NUMBER  
**A1.01**

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TUALATIN VALLEY FIRE & RESCUE

REVISION	DATE	REASON FOR ISSUE

FLOOR PLAN

CONDITIONAL USE  
APPLICATION

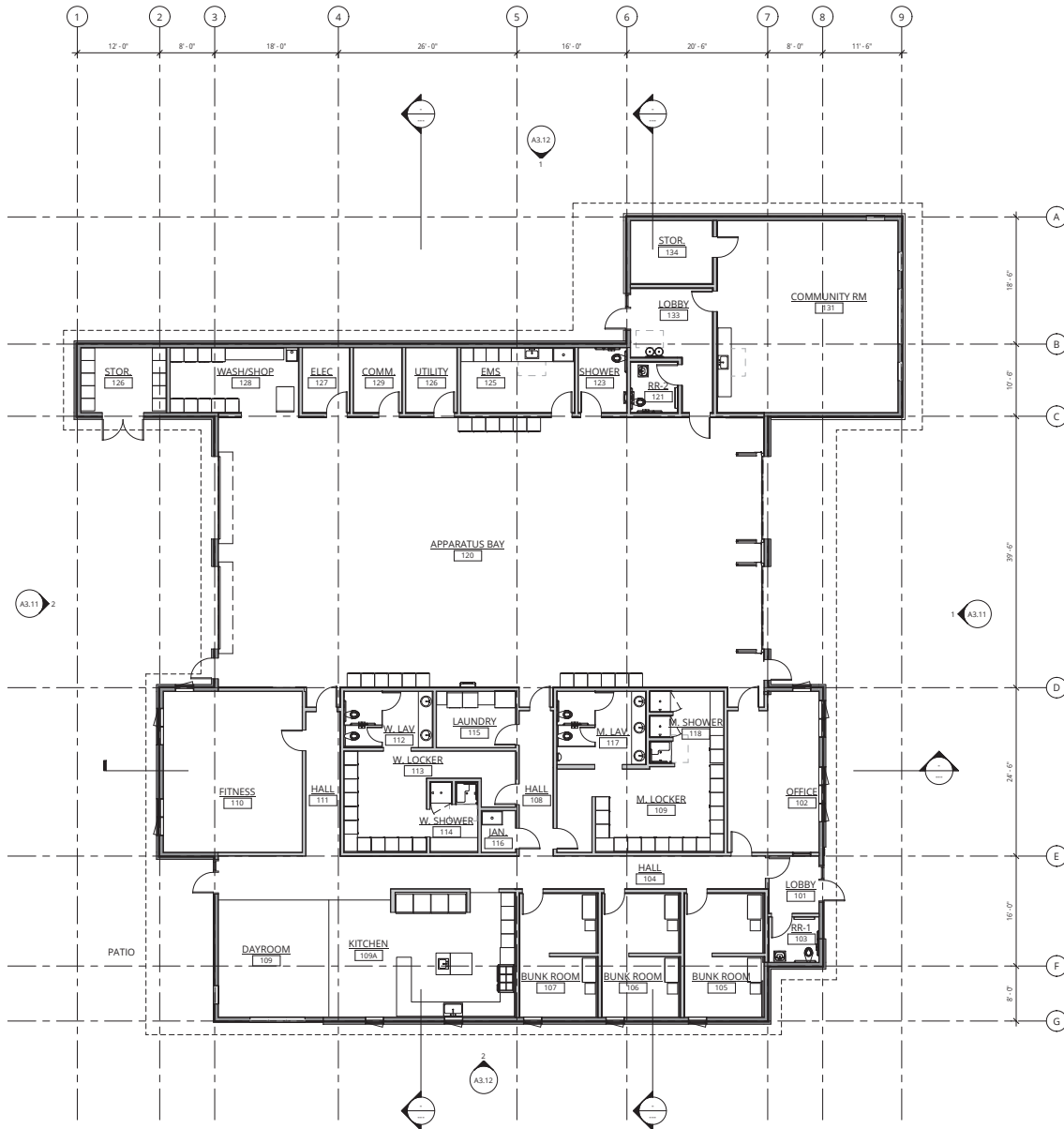
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**A2.01**



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**1 FLOOR LEVEL**  
1/8" = 1'-0"





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TUALATIN VALLEY FIRE & RESCUE

REVISION	DATE	REASON FOR ISSUE

ROOF PLAN

CONDITIONAL USE  
APPLICATION

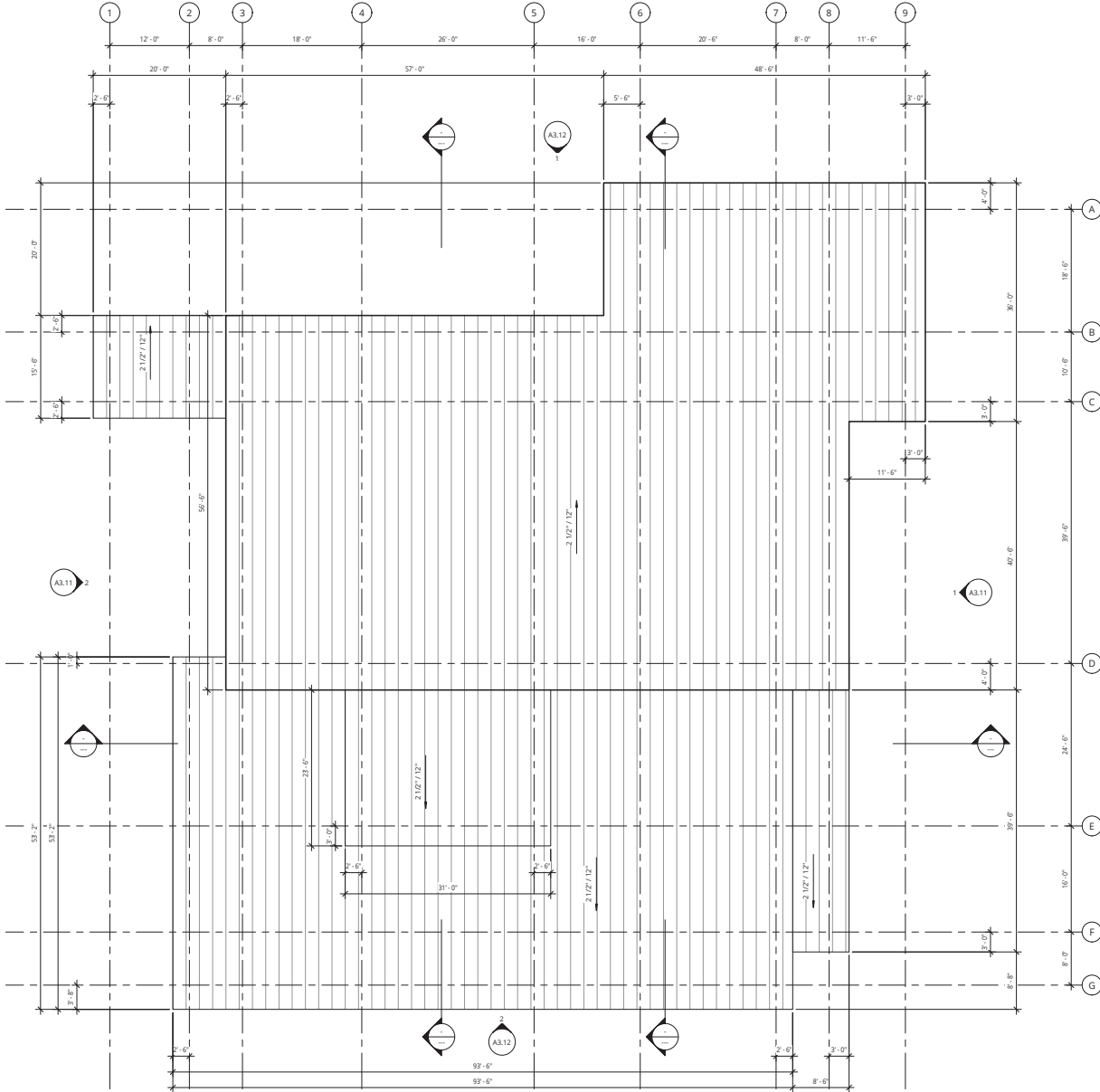
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SHEET NUMBER

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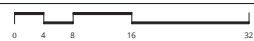
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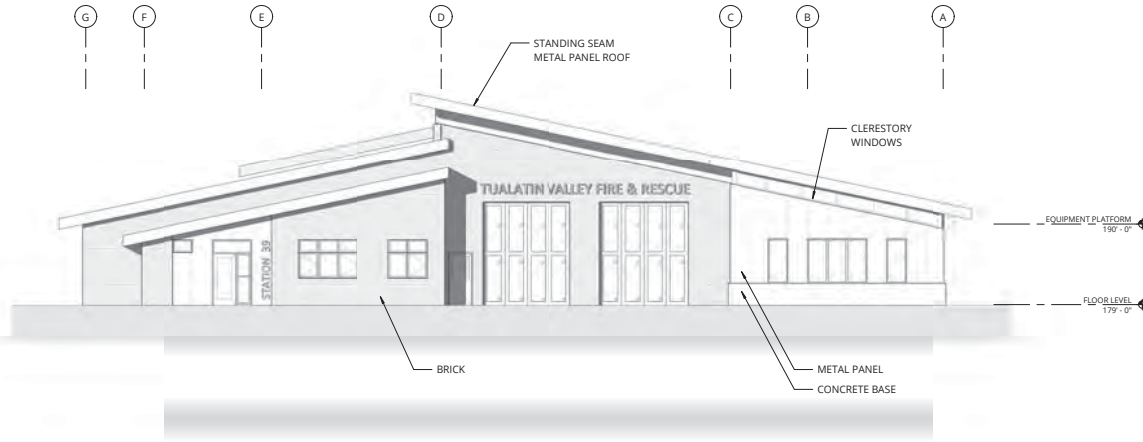


**1 ROOF LEVEL**

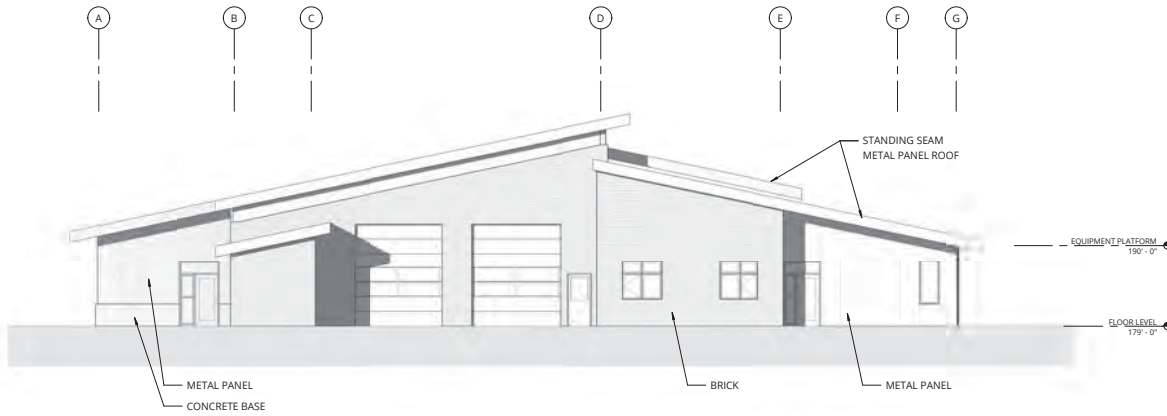
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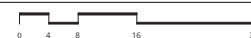
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**1** NORTH EAST ELEVATION  
1/8" = 1'-0"



**2** SOUTH WEST ELEVATION  
1/8" = 1'-0"



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CONSTRUCTION**



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**TV F&R STATION 39 - TUALATIN**

7100 SW MCEWAN  
TUALATIN, OR 97062

TUALATIN VALLEY FIRE & RESCUE

REVISION	DATE	REASON FOR ISSUE

**BUILDING  
ELEVATIONS**

**CONDITIONAL USE  
APPLICATION**

DATE: 11/22/2017 PROJECT NUMBER: 173470

SHEET NUMBER:

**A3.11**

11/22/2017 10:05:11 AM

**NOT FOR  
CONSTRUCTION**



38 NORTHWEST DAVIS, SUITE 300  
PORTLAND, OR 97209  
T 503.245.7100  
1505 5TH AVE, SUITE 300  
SEATTLE, WA 98101  
T 206.576.1600  
1014 HOWARD STREET  
SAN FRANCISCO, CA 94103  
T 415.252.7063  
© ANKROM MOISAN ARCHITECTS, INC.

**TV F&R STATION 39 - TUALATIN**  
7100 SW MCEWAN  
TUALATIN, OR 97062  
TUALATIN VALLEY FIRE & RESCUE

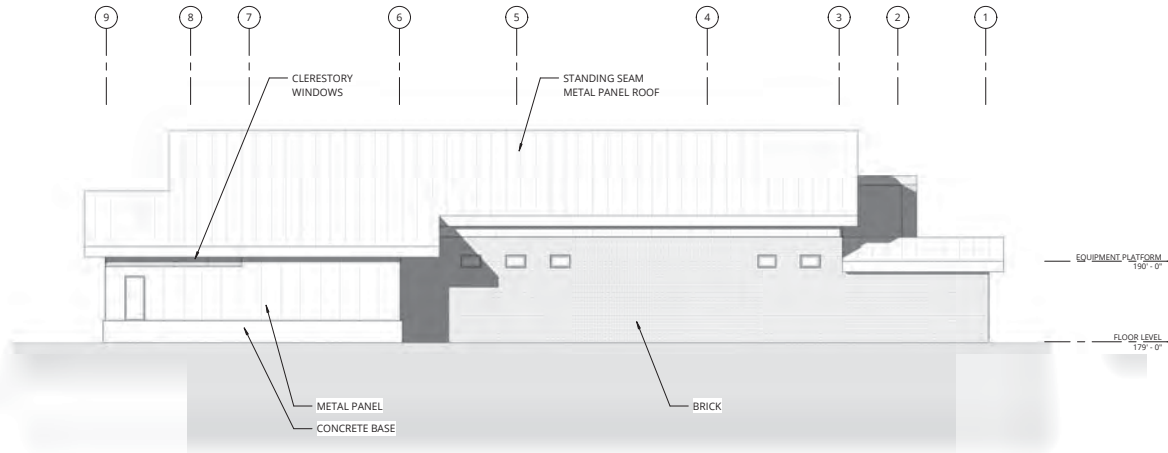
REVISION	DATE	REASON FOR ISSUE

BUILDING  
ELEVATIONS

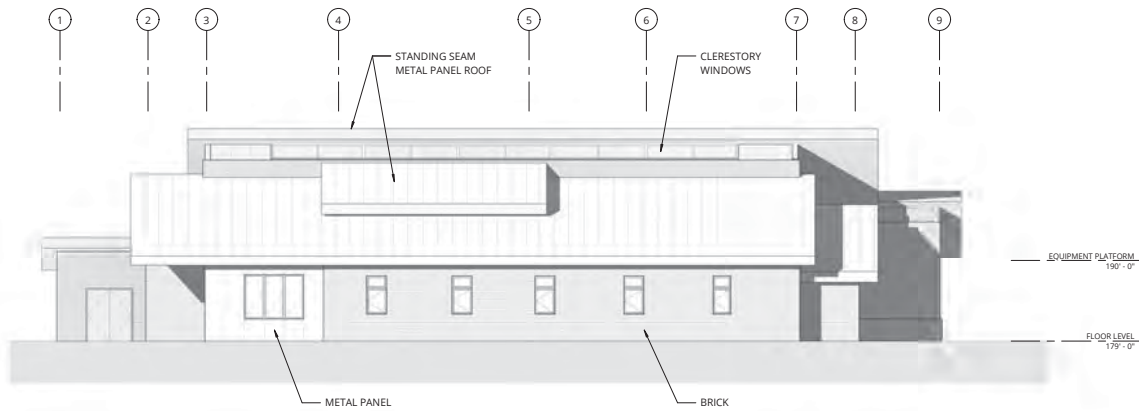
CONDITIONAL USE  
APPLICATION

DATE: 11/22/2017 PROJECT NUMBER: 173470  
SHEET NUMBER:

**A3.12**



**1 NORTH WEST ELEVATION**  
1/8" = 1'-0"



**2 SOUTH EAST ELEVATION**  
1/8" = 1'-0"



C:\\_local\Documents\173470\_11\_22\_2017\173470\_11\_22\_2017\_39\_01.dwg

17-003489



### Sensitive Area Pre-Screening Site Assessment

1. Jurisdiction: Tualatin

2. Property Information (example 1S234AB01400)

Tax lot ID(s): 2S 113DD TL 1601

3. Owner Information

Name: Siobhan Kirk

Company: Tualatin Valley Fire & Rescue

Address: 11945 SW 70th Avenue

City, State, Zip: Tigard, OR 97223

Phone/Fax: 503-649-8577

E-Mail: \_\_\_\_\_

OR Site Address: Adjacent to 7100 SW McEwan

City, State, Zip: Tualatin, OR 97062

Nearest Cross Street: SW McEwan & Lower Boones Ferry Rd.

4. Development Activity (check all that apply)

- Addition to Single Family Residence (rooms, deck, garage)
- Lot Line Adjustment       Minor Land Partition
- Residential Condominium       Commercial Condominium
- Residential Subdivision       Commercial Subdivision
- Single Lot Commercial       Multi Lot Commercial
- Other New fire station

5. Applicant Information

Name: Frank Angelo

Company: Angelo Planning Group

Address: 921 SW Washington Ave. Suite 468

City, State, Zip: Portland, OR 97205

Phone/Fax: 503-649-8577

E-Mail: fangelo@angeloplanning.com

6. Will the project involve any off-site work?  Yes  No  Unknown

Location and description of off-site work \_\_\_\_\_

7. Additional comments or information that may be needed to understand your project Site plan and tax map are attached.

**This application does NOT replace Grading and Erosion Control Permits, Connection Permits, Building Permits, Site Development Permits, DEQ 1200-C Permit or other permits as issued by the Department of Environmental Quality, Department of State Lands and/or Department of the Army COE. All required permits and approvals must be obtained and completed under applicable local, state, and federal law.**

By signing this form, the Owner or Owner's authorized agent or representative, acknowledges and agrees that employees of Clean Water Services have authority to enter the project site at all reasonable times for the purpose of inspecting project site conditions and gathering information related to the project site. I certify that I am familiar with the information contained in this document, and to the best of my knowledge and belief, this information is true, complete, and accurate.

Print/Type Name Frank Angelo

Print/Type Title Principal

Signature \_\_\_\_\_

Date Oct. 18, 2017

#### FOR DISTRICT USE ONLY

Sensitive areas potentially exist on site or within 200' of the site. **THE APPLICANT MUST PERFORM A SITE ASSESSMENT PRIOR TO ISSUANCE OF A SERVICE PROVIDER LETTER.** If Sensitive Areas exist on the site or within 200 feet on adjacent properties, a Natural Resources Assessment Report may also be required.

Based on review of the submitted materials and best available information Sensitive areas do not appear to exist on site or within 200' of the site. This Sensitive Area Pre-Screening Site Assessment does NOT eliminate the need to evaluate and protect water quality sensitive areas if they are subsequently discovered. This document will serve as your Service Provider letter as required by Resolution and Order 17-05, Section 3.02.1. All required permits and approvals must be obtained and completed under applicable local, State, and federal law.

Based on review of the submitted materials and best available information the above referenced project will not significantly impact the existing or potentially sensitive area(s) found near the site. This Sensitive Area Pre-Screening Site Assessment does NOT eliminate the need to evaluate and protect additional water quality sensitive areas if they are subsequently discovered. This document will serve as your Service Provider letter as required by Resolution and Order 17-05, Section 3.02.1. All required permits and approvals must be obtained and completed under applicable local, state and federal law.

This Service Provider Letter is not valid unless \_\_\_\_\_ CWS approved site plan(s) are attached.

The proposed activity does not meet the definition of development or the lot was platted after 9/9/95 ORS 92.040(2). NO SITE ASSESSMENT OR SERVICE PROVIDER LETTER IS REQUIRED.

Reviewed by Chuck Marshall

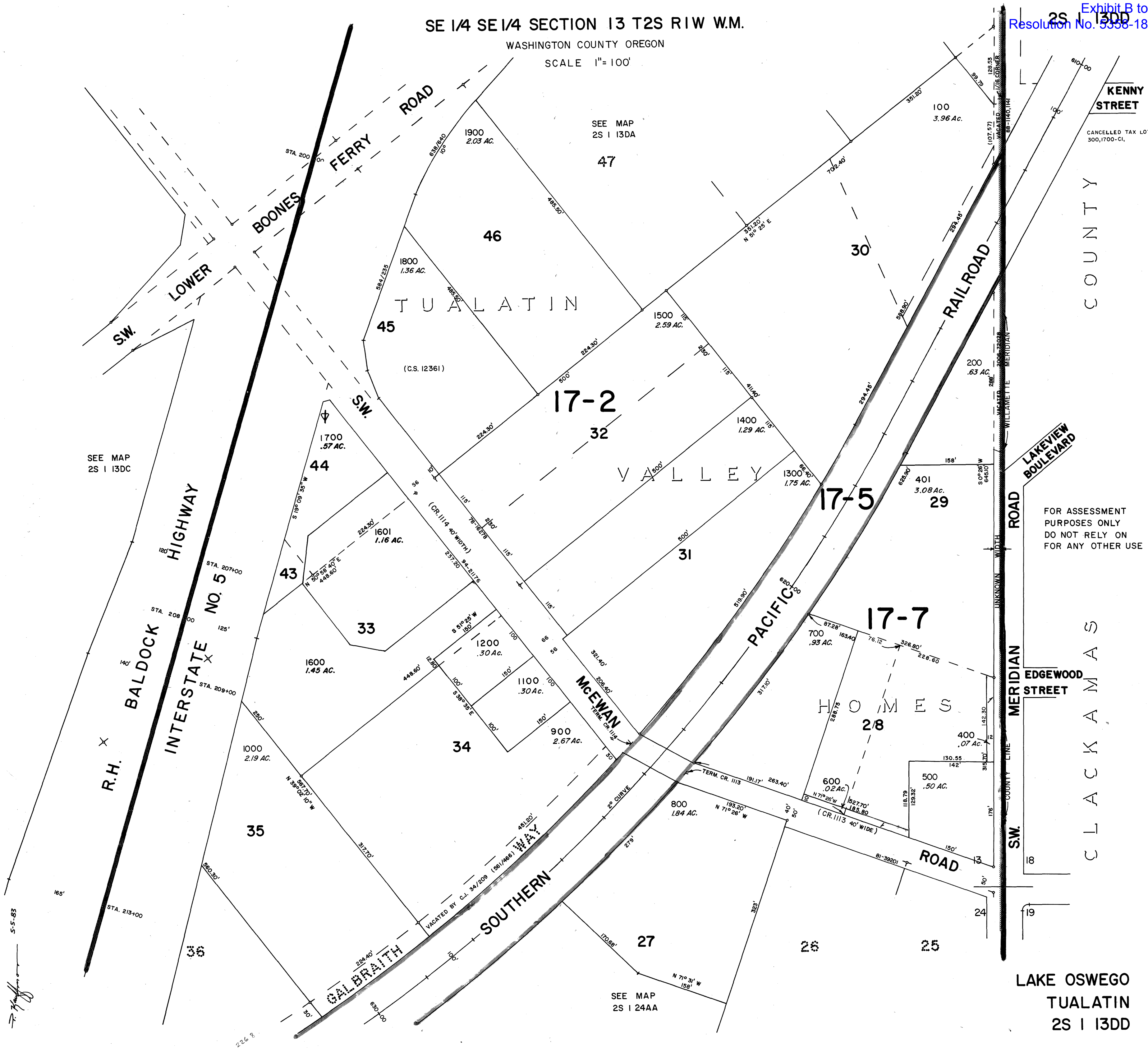
Date 10/31/17

Once complete, email to: [SPLReview@cleanwaterservices.org](mailto:SPLReview@cleanwaterservices.org) • Fax: (503) 681-4439  
OR mail to: SPL Review, Clean Water Services, 2550 SW Hillsboro Highway, Hillsboro, Oregon 97123

SE 1/4 SE 1/4 SECTION 13 T2S R1W W.M.

WASHINGTON COUNTY OREGON

SCALE 1"=100'



SEE MAP 2S 13DC

SEE MAP 2S 13DA

CANCELLED TAX LOTS 300,1700-C1

FOR ASSESSMENT PURPOSES ONLY DO NOT RELY ON FOR ANY OTHER USE

SEE MAP 2S 124AA

LAKE OSWEGO TUALATIN 2S 13DD

5-5-83

*[Handwritten signature]*

**NEIGHBORHOOD/DEVELOPER MEETING  
AFFIDAVIT OF MAILING**

STATE OF OREGON                    )  
  ) SS  
COUNTY OF WASHINGTON        )

I, Clinton Dosssee, being first duly sworn, depose and say:

That on the 24 day of October, 2017, I served upon the persons shown on Exhibit "A," attached hereto and by this reference incorporated herein, a copy of the Notice of Neighborhood/Developer meeting marked Exhibit "B," attached hereto and by this reference incorporated herein, by mailing to them a true and correct copy of the original hereof. I further certify that the addresses shown on said Exhibit "A" are their regular addresses as determined from the books and records of the Washington County and/or Clackamas County Departments of Assessment and Taxation Tax Rolls, and that said envelopes were placed in the United States Mail with postage fully prepared thereon.

  
\_\_\_\_\_  
Signature

SUBSCRIBED AND SWORN to before me this 29th day of November, 2017.



  
\_\_\_\_\_  
Notary Public for Oregon  
My commission expires:

RE: TVF+R Station 39



Dear Resident/Property Owner,

Tualatin Valley Fire & Rescue (TVF&R) is proposing to develop a new fire station (Station 39) on SW McEwan Road south of SW Boones Ferry Road. The new station will be approximately 7,500 square feet and include a 600-square foot community room. The building will house the station's firefighters and have an interior two-space parking bay for fire trucks and necessary emergency apparatus. Station 39 will include 24-hour staffing starting with 4 persons per shift and ultimately growing to 6-person shifts.

The 1.16-acre site is within the City of Tualatin's Light Manufacturing Planning District (ML). New fire stations are permitted in the ML Planning District through a Conditional Use Permit and Architectural Review. The Conditional Use will require submittal of an application to the City for review and approval by the City Council. A pre-application conference was held for the project on September 20, 2017. Following Conditional Use review an Architectural Review application will be submitted for construction of the new station. This application will be reviewed by staff.

As specific engineering and site plans are being prepared and before submitting the application for the necessary reviews and approvals, we would like to discuss the proposal with the surrounding property owners and residents. In accordance with City requirements, we are conducting a Neighborhood Meeting on the following date and at the following location:

**Tuesday, November 7<sup>th</sup>, 2017**

**6:00 – 7:00 pm**

**Juanita Pohl Center**

**8513 SW Tualatin Road**

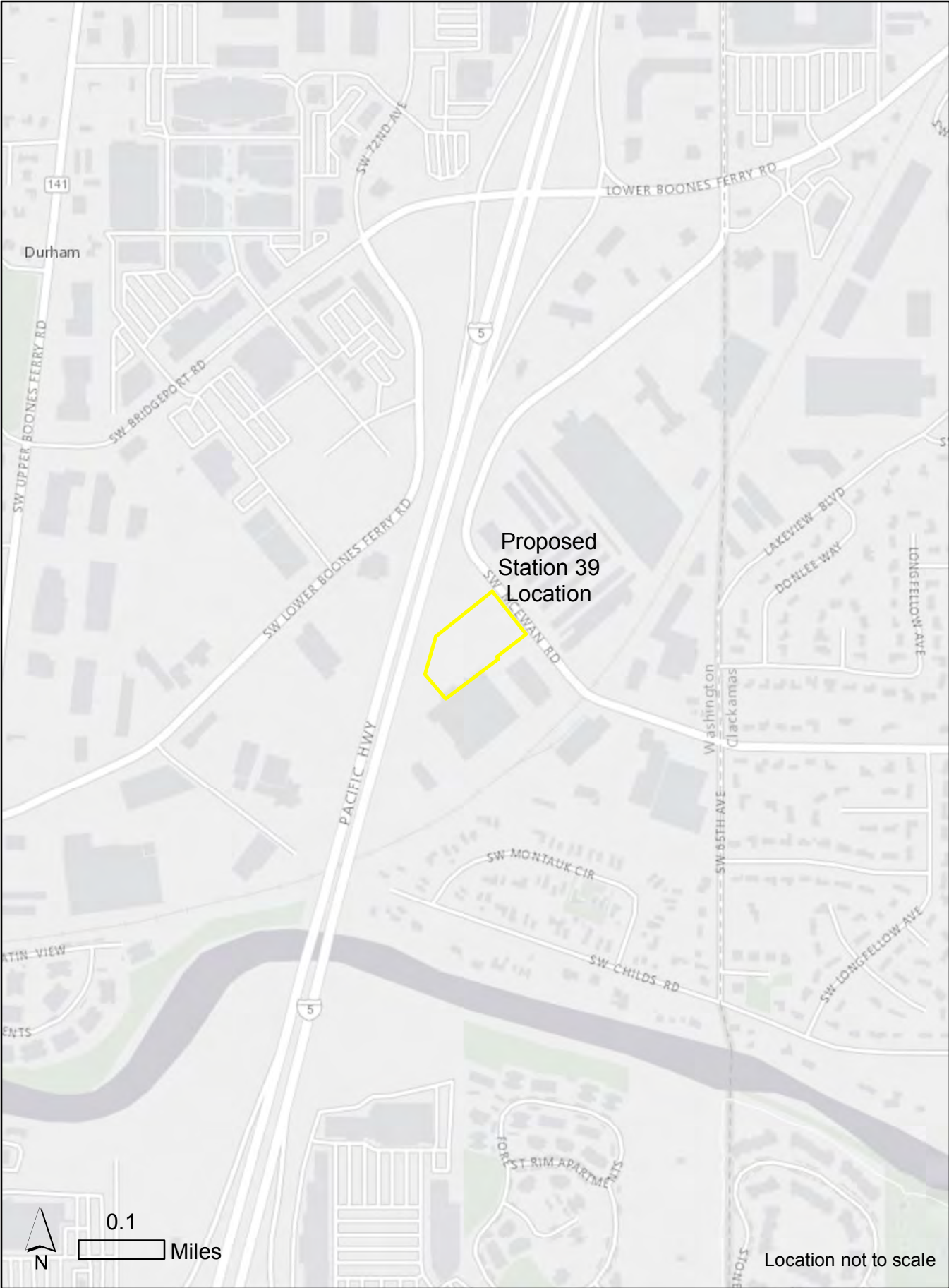
**Tualatin, Oregon 97062**

We look forward to discussing the proposal with you. Please feel free to contact the project's development application representative, at 503-227-3664 or [fangelo@angeloplanning.com](mailto:fangelo@angeloplanning.com) if you have any questions.

Sincerely,

Frank Angelo, Principal

Attachment: Vicinity/Location Map





## NEIGHBORHOOD / DEVELOPER MEETING CERTIFICATION OF SIGN POSTING

<b>NOTICE</b>
<b>NEIGHBORHOOD / DEVELOPER MEETING</b>
__/__/2010 __:__.m.
SW _____
503-____-____

18"

24"


In addition to the requirements of TDC 31.064(2) quoted earlier in the packet, the 18" x 24" sign that the applicant provides must display the meeting date, time, and address and a contact phone number. The block around the word "NOTICE" must remain **orange** composed of the **RGB color values Red 254, Green 127, and Blue 0**. Additionally, the potential applicant must provide a flier (or flyer) box on or near the sign and fill the box with brochures reiterating the meeting info and summarizing info about the potential project, including mention of anticipated land use application(s). Staff has a Microsoft PowerPoint 2007 template of this sign design available through the Planning Division homepage at < [www.tualatinoregon.gov/planning/land-use-application-sign-templates](http://www.tualatinoregon.gov/planning/land-use-application-sign-templates) >.

As the applicant for the

TVF+R Station 39 project, I

hereby certify that on this day, October 24, 2017 sign(s) was/were posted on the subject property in accordance with the requirements of the Tualatin Development Code and the Community Development Department - Planning Division.

Applicant's Name: Clinton Daxsee, Angela Planning Group  
(PLEASE PRINT)

Applicant's Signature: 

Date: 11/29/17

# NOTICE

## NEIGHBORHOOD / DEVELOPER MEETING

11/7/2017 6:00 p.m.

8513 SW Tualatin Road

503-227-3664.

TVF&R Station 39 Neighborhood/Developer Meeting Notice Sign posted on site.





---

MEMORANDUM

## TVF&R Station 39 Neighborhood Meeting Notes

DATE November 9, 2017  
TO Project Team  
FROM Frank Angelo, APG  
CC

---

The Station 39 Neighborhood Meeting for the land use application was held on Tuesday, November 7, 2017 at the Juanita Pohl Center, 8513 SW Tualatin Road, Tualatin, Oregon 97062. The meeting Agenda, Sign-in Sheet and Illustrations presented at the meeting are attached to this meeting summary.

Project team attendance:

- TVF&R: Assistant Chief Havener, Siobhan Kirk
- APG: Frank Angelo
- Ankrom Moisan Architects: Michael Bonn
- AKS: Bruce Baldwin
- Lancaster Engineering: Todd Mobley

City of Tualatin Staff in attendance:

- Charles Benson, Planner

Frank Angelo introduced the Neighborhood Meeting and turned it over to Assistant Chief Havener to introduce the project and discuss the site selection, project funding and station operations.

Frank Angelo reviewed the land use application process and schedule for application submittal, noting the following.

- Tonight's meeting is a part of the city's land use application process. We are preparing a Conditional Use first, then an Architectural Review 2 land use application to demonstrate how the project complies with the City's CU Review Criteria.
- The Conditional Use application will address the use of the property and be presented at a City Council public hearing.

- The second application will follow Conditional Use approval and will be the Architectural Review application.
- The AR application will demonstrate how the project meets the City's design requirements and standards.
- The AR application will be reviewed and approved by staff. The application does not require review/approval by the Planning Commission.
- We expect to file the Conditional Use application in November.
- You received direct notice of tonight's meeting because you are within 1000' of the project site. Following submittal of the CU application you will receive notice of the Planning Commission hearing date/time.

Michael Bonn, Ankrom Moisan Architects, reviewed the site plan and building design elements.

- Michael provided an overview of site design considerations and key features.
- Stepped through the site plan, access to the site, on-site circulation, stormwater treatment, and landscaping.
- Station 39 will be similar in design to Station 55 currently under construction in West Linn.
- Staffing will be 4 full-time staff (24-hour shifts) with room to expand to 6 full-time staff.
- Michael noted the 600 sf Community Room and its availability to the residents for meetings.

Questions from the audience:

1. Discuss the landscaping that will be provided.
2. Question regarding the location of the driveway to SW McEwen and its proximity to the existing cell tower.
3. Where is the station in relation to the Legacy Medical office?
4. Has the design considered flooding and debris flows from Scoggins Dam?
5. Where is this site in relation to the Lake Oswego Fire District boundary?
6. Is there an agreement (Mutual Aid Agreement) between TVF&R and LOFD?
7. Is the building being constructed to address emergency preparedness? Design will include seismic enhancements.
8. Will TVF&R assist with HazMat calls?

The meeting adjourned at 7:00pm.

Attachments: Meeting Agenda; Sign-In Sheet; Project Illustrations




**Tualatin Valley Fire & Rescue Station 39  
Neighborhood / Developer Meeting  
Tuesday, November 7<sup>th</sup>, 2017  
6:00 – 7:00 pm  
Juanita Pohl Center  
8513 SW Tualatin Road  
Tualatin, Oregon 97062**

**Agenda**

1. Welcome / Meeting Overview – Frank Angelo, Angelo Planning Group
2. Introduction from TVF&R – Assistant Chief Mark Havener
3. Land Use Application – Frank Angelo
4. Site Plan– Michael Bonn, Ankrom Moisan Architects
5. Audience Questions / Comments – All

# TVF&R Station 39 Neighborhood Meeting

November 7, 2017  
6:00 pm – 7:00 pm  
Juanita Pohl Center  
8513 SW Tualatin Road  
Tualatin, OR 97062

Name	Address	Email Address
Frank Angelo		
Bruce Baldwin		
TODD MORLEY		
Shannon Martin		
Kim Merow		
MICHAEL BONN		
CHARLES BENSON		
LARRY SILVER - BURDING		
"		
Wendy Havenen		
Siobhan Kirk		
Sherry Patterson		
ALLEN PATTERSON		

**INTERSTATE 5**

LINE FOR 32'-0" DRIVE  
PROPERTY LINE

170'-0"

37'-0"

PUBLIC PARKING  
21 SPACES

232'-0"

**SW MCEWAN ROAD**

**TVF&R  
STATION 39**

PROPANE  
GENERATOR  
FUEL

EMPLOYEE PARKING  
12 SPACES

**STORMWATER RETENTION**

TRASH

189'-1"

44'-6"

38'-5"

130'-0"

57'-6"

5'-6"

57'-6"

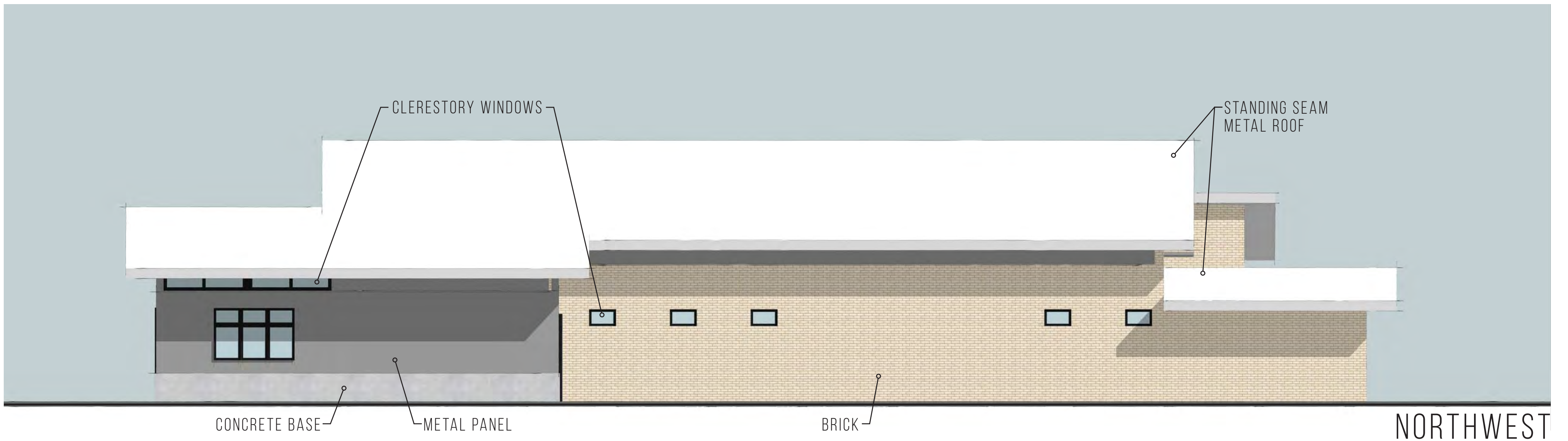
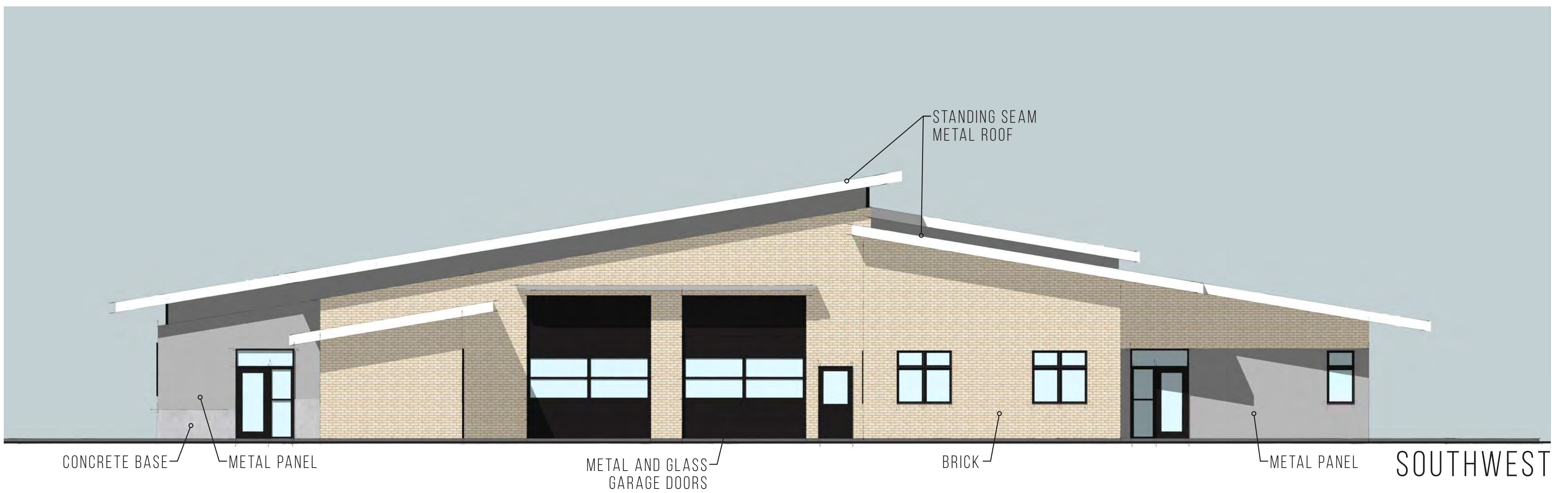
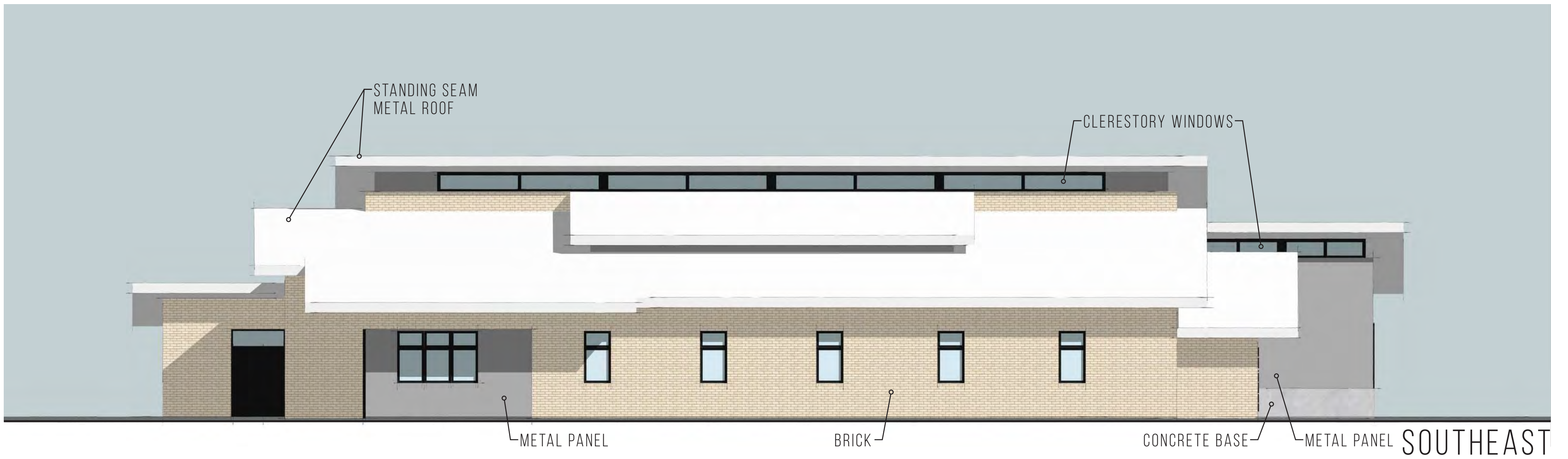
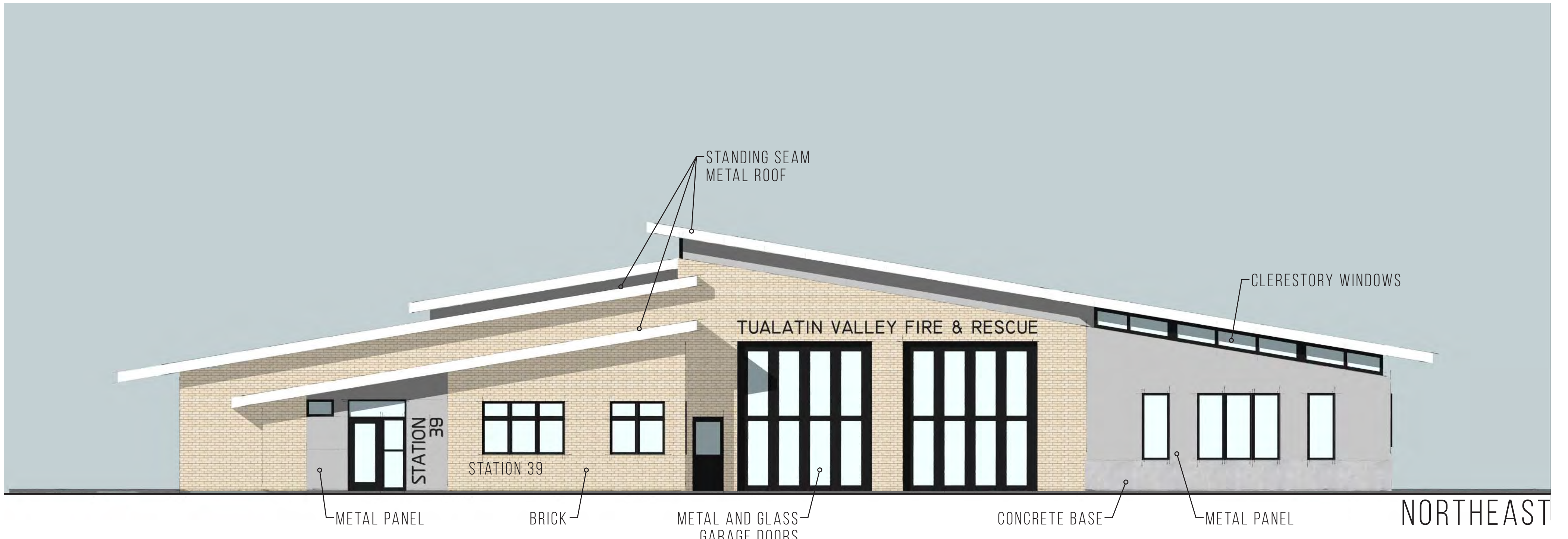


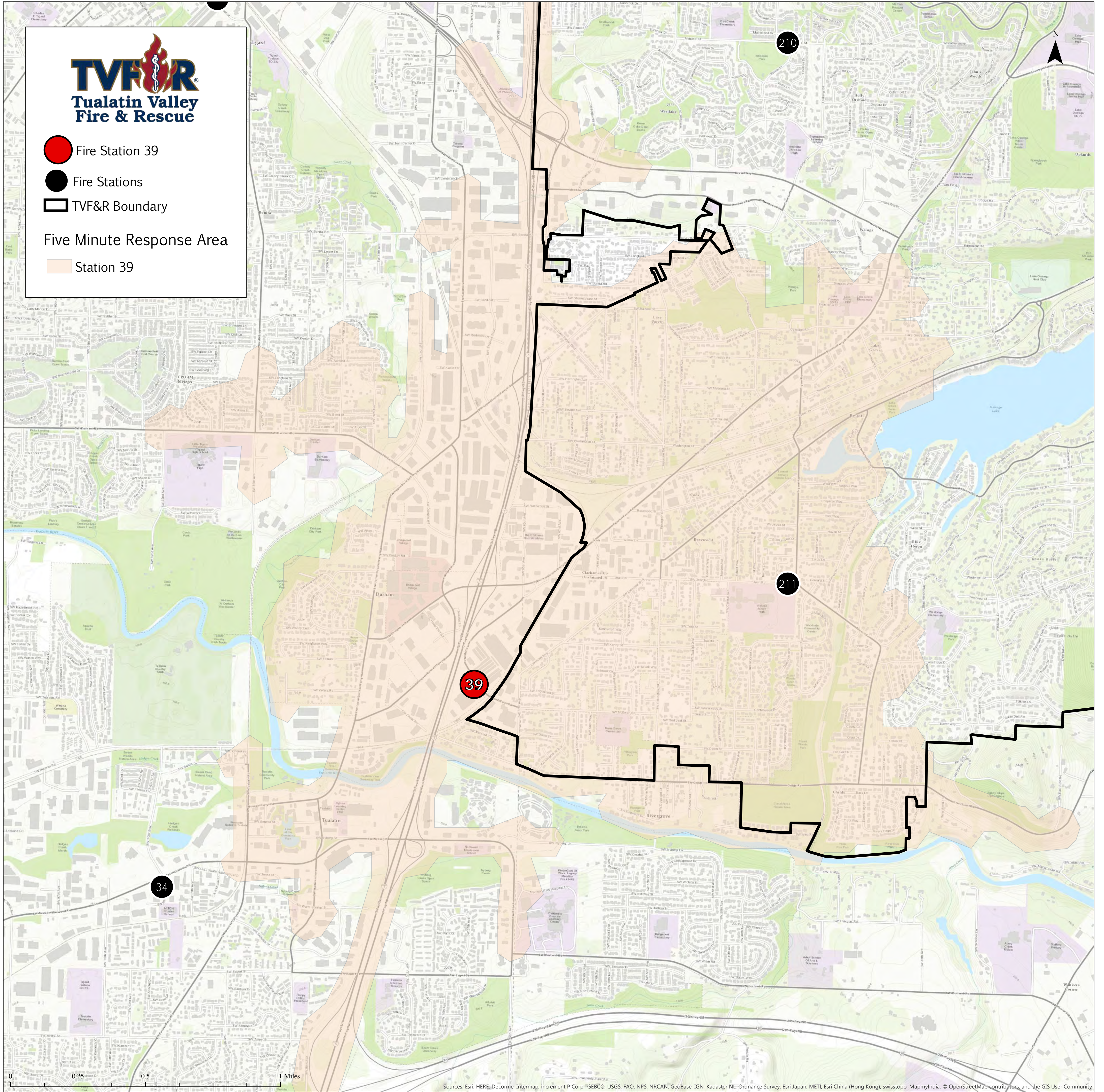
**FIRE STATION 39**

TUALATIN / 11.07.2017











**Exhibit 7**

**Order Granting Plaintiff's Motion of Immediate Possession (Case No. 17CV14497)**

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IN THE CIRCUIT COURT OF THE STATE OF OREGON  
FOR THE COUNTY OF WASHINGTON

TUALATIN VALLEY FIRE AND RESCUE, a  
rural fire protection district,

Plaintiff,

v.

AMERCO REAL ESTATE COMPANY, a  
Nevada corporation

Defendant.

Case No. 17CV14497

ORDER GRANTING PLAINTIFF’S  
MOTION OF IMMEDIATE POSSESSION

IT APPEARING TO THE COURT that: Plaintiff Tualatin Valley Fire and Rescue (“Plaintiff”) served a Notice of Immediate Possession (“Notice”) on the defendant Amerco Real Estate Company (“Defendant”) named in the above captioned proceeding on April 18, 2016; Defendant failed to file an objection that complies with ORS 35.352(2) in the time provided; and this Order is supported by the Declaration of Cynthia Fraser filed herewith as required by ORS 35.352(3) along with Plaintiff’s Motion for Entry of Order for Immediate Possession and Response to Defendant’s Reservation of Right to Object to Immediate Possession.

The Court further finding that Defendant submitted a “Non-Opposition to Plaintiff’s Motion for Entry of Order for Immediate Possession” on May 19, 2017 and advised the Court that it did not object to the form of Order for Immediate Possession.

IT IS FURTHER APPEARING TO THE COURT that a deposit as required by ORS

1 35.265 has been made. Now, therefore,

2 IT IS HEREBY ORDERED THAT Plaintiff has the right to take and exercise immediate  
3 possession of such property and interests on May 4, 2017, as provided in the notice and provided  
4 in ORS 35.352.

5  
6  
7 Signed: 6/9/2017 09:34 AM

8   
9

10  
11 Submitted by:

12 Cynthia M. Fraser, OSB #872246  
13 Paul H. Trincherro, OSB # 014397  
14 GARVEY SCHUBERT BARER  
15 121 SW Morrison Street  
16 Portland, OR 97204  
17 Telephone: (503) 228-3939  
18 Fax: (503) 226-0259

19 *Of Attorneys for Plaintiffs*  
20  
21  
22  
23  
24  
25  
26

**CERTIFICATE OF READINESS**

**UTCR 5.100**

This proposed order or judgment is ready for judicial signature because:

1.  Each opposing party affected by this order or judgment has stipulated to the order or judgment, as shown by each opposing party's signature on the document being submitted.
2.  Each opposing party affected by the order or judgment has approved the order or judgment, as shown by signature on the document being submitted or by written confirmation of approval sent to me.
3.  I have served a copy of this order or judgment on all parties entitled to service and:
  - a.  No objection has been served on me.
  - b.  I received objections that I could not resolve with Defendant despite reasonable efforts to do so. I have filed a copy of the objections I received and indicated which objections remain unresolved.
  - c.  After conferring about objections, Defendant agreed to independently file any remaining objection.
4.  The relief sought is against an opposing party who has been found in default.
5.  An order of default is being requested with this proposed judgment.
6.  Service is not required pursuant to ORS 35.352(3).
7.  This is a proposed judgment that includes an award of punitive damages and notice has been served on the Director of the Crime Victims' Assistance Section as required by subsection (4) of this rule.

DATED this 5<sup>th</sup> day of June, 2017.

s/Cynthia M. Fraser  
Cynthia M. Fraser  
Of Attorneys for Plaintiff



**CERTIFICATE OF SERVICE**

I hereby certify that I served the proposed **ORDER GRANTING PLAINTIFF'S  
MOTION OF IMMEDIATE POSSESSION** on the following:

Peter C Richter  
Alex Naito  
Miller Nash Graham & Dunn LLP  
111 SW 5th Ave Ste 3400  
Portland OR 97204  
peter.richter@millernash.com  
alex.naito@millernash.com

by mailing to them a copy of the original thereof, contained in a sealed envelope, addressed as above set forth, with postage prepaid, and deposited in the mail in Portland, Oregon, on this 4th day of May, 2017 and provided them a copy of this Order on June 5, 2017.

s/ Cynthia M. Fraser  
Cynthia M. Fraser, OSB #872243  
Of Attorneys for Plaintiff

GSB:8632935.2 [37746.00200]



PORTLAND OFFICE  
eleventh floor  
121 sw morrison street  
portland, oregon 97204-3141  
TEL 503 228 3939 FAX 503 226 0259

anchorage, alaska  
houston, texas  
new york, new york  
seattle, washington  
washington, d.c.  
GSBLAW.COM

Exhibit B to  
Resolution No. 5358-18

GARVEY SCHUBERT BARER

A PARTNERSHIP OF PROFESSIONAL CORPORATIONS

Please reply to CYNTHIA M. FRASER  
cfraser@gsblaw.com  
Direct Dial 503 553 3223

October 11, 2017

**VIA EMAIL AND U.S. MAIL**

Sean Brady  
City Attorney  
City of Tualatin Oregon  
18880 SW Martinazzi Ave  
Tualatin, OR 97062

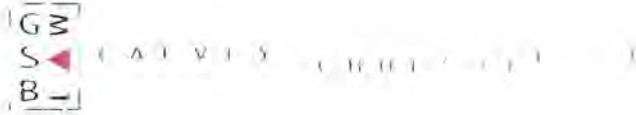
Re: Tualatin Valley Fire & Rescue

Dear Sean:

I have been hired by Tualatin Valley Fire & Rescue ("TVFR") to work with TVFR's general counsel, Bob Blackmore, on the acquisition of property necessary for TVFR to build a new fire station for the health, safety and welfare of its fire district. One of the issues that came up recently with your planning department was the legal ability of TVFR to proceed with the land use process necessary to build the facility because TVFR does not have title to the property.

Prior to joining this law firm, I was a Senior Assistant Attorney General at the Oregon Department of Justice in the trial division, where I specialized in condemnation. Since returning to private practice, I have represented several government entities in the acquisitions of properties for public use. Most recently, I was the condemnation attorney for the City of Lake Oswego-Tigard Water Partnership. I worked closely with City Attorney David Powell on all of the necessary property acquisitions for that project.

The Oregon Condemnation Procedures Act ORS Chapter 35 governs and describes the condemnation powers a government entity has and the procedures it must follow. When a public condemnor commences an action for condemnation of property, and immediate possession of the property is considered necessary by the public condemnor, the condemnor may deposit funds into the court where the action was commenced for the use of the defendants in the action. ORS 35.265. TVFR filed a complaint in Washington County Circuit Court on April 6, 2017 against Amerco Real Estate Company ("U-Haul") and deposited funds into court in compliance with the statute. Thereafter, on April 18, 2017, TVFR filed a Notice of Immediate Possession of Property with the court. Any time after a condemnation action is commenced, the public condemnor may serve notice on the property owner that it will take immediate possession of the property that is the subject of the condemnation action.



ORS 35.352. On May 4, 2017, the Washington County Circuit Court granted plaintiff's Motion for Entry of an Order of Immediate Possession.

Accordingly, as of May 5, 2014, TVFR has immediate legal possession of the property, and as such may proceed with moving forward with its project.<sup>1</sup> Even if there is an appeal to the action from the judgment, the appeal will not stay the proceeding as to prevent the condemnor from taking possession of the property and using it for the purposes for which it is being appropriated. ORS 35.355. Thus, the legislature intended that the condemnor – TVFR – could proceed with the project while the property owner has the right to contest the amount of just compensation. TVFR has the necessary legal authority to proceed as if it had legal title to the property. The condemnation proceeding is scheduled for a jury trial March 5, 2018 to March 9, 2018.

Feel free to contact either Bob Blackmore at (503) 479-7175 or myself if you have any questions. I understand that a meeting to discuss next steps is being set up and we thought setting out the legal status of TVFR in advance would assist you.

Very truly yours,

GARVEY SCHUBERT BARER

By

Cynthia M. Fraser

<sup>1</sup> It should also be noted that there is a statutory presumption of necessity that when TVFR declared the taking of the U-Haul property necessary for its purposes of the health and safety of its district, there is a presumption of evidence of the necessity of the property. See *Port of Umatilla v. Richmond*, 212 Or 596 321 P2d 338 (1958). In the absence of fraud, bad faith or abuse of discretion, the necessity propriety or expediency of appropriation of the property for the public use, the location of the property taken and its suitability for the proposed use are legislative questions and therefore not subject to review by the court.

CUP17-0002

To lessen the bulk of the notice of application and to address privacy concerns, this sheet substitutes for the photocopy of the mailing labels. A copy is available upon request.

**City Council Meeting**

**Meeting Date:** 04/23/2018

**SPECIAL REPORTS:** Annual Report for the Tualatin Library Advisory Committee

**Submitted For:** Sherilyn Lombos, City Manager

---

**SPECIAL REPORTS**

Annual Report for the Tualatin Library Advisory Committee

---

TLAC 2017 Annual Report

TLAC 2017 Presentation

---



# 2017 ANNUAL REPORT

## Tualatin Library Advisory Committee

---

### 1. BACKGROUND

The Tualatin Library Advisory Committee (TLAC) was established by Ordinance 758-88, adopted by Council on October 10, 1988, and incorporated into the Tualatin Municipal Code as Chapter 11-4. The enabling ordinance requires the TLAC to file an annual report with the Council including a summary of the committee's activities during the preceding year and other matters and recommendations the committee deems appropriate.

Members of the TLAC during 2017 include Sonya Ambuehl, Alan Feinstein, Nicholas Schiller (Vice Chair), Thea Wood (Chair), and Marcus Young. Former members included teen representative Mohammed Dezay and Don Swygard, who resigned in September 2017. Laura Stewart and Hannah Watt (teen representative) joined the committee in January 2018.

### 2. ROLES OF THE COMMITTEE

- A. Consult with and advise the Library Manager on all matters affecting operational policies of the City Library.
- B. Make recommendations to the City Council with respect to services, facilities and all other matters pertaining to the maintenance and improvement of the City Library.
- C. Hear and consider complaints about City Library policies or materials.

### 3. ACTIONS AND ACCOMPLISHMENTS IN SUPPORT OF ROLES IN 2017

#### A. CONSULT WITH AND ADVISE THE LIBRARY MANAGER ON ALL MATTERS AFFECTING OPERATIONAL POLICIES OF THE CITY LIBRARY

1. TLAC reviewed best practices for library policies. Committee members considered & provided recommendations on several operational policies, including Distribution of Free Materials, Self-Reported Theft, Programming, Photo/Video, and Non-Library Activities on the Library Plaza.
2. TLAC discussed and provided comments to Library management regarding overdue fines, Summer Reading, Teen Room Code of Conduct, Library budget, parking, early literacy services, Library serving as a cooling center, and library utilization trends. Committee members shared their perspective as citizens and library users, providing input representing our diverse community.

**B. MAKE RECOMMENDATIONS TO THE CITY COUNCIL WITH RESPECT TO SERVICES, FACILITIES, AND ALL OTHER MATTERS PERTAINING TO THE MAINTENANCE AND IMPROVEMENT OF THE CITY LIBRARY.**

1. TLAC members discussed a progress report for the Library's strategic plan actions completed in 2017 and updated strategies for 2018. Highlighted accomplishments included:
  - a. 97% of surveyed parents said storytime helped them feel more confident about helping their child learn and 98% learned something they could share with their child.
  - b. 1000 Books Before Kindergarten, an early literacy program, was launched.
  - c. Mobile Makerspace was successfully launched and transitioned to ongoing library program.
  - d. Opportunities for youth volunteers were increased.
  - e. Three additional bilingual staff hired.

Committee members discussed and made suggestions to support programs and services that align with the following City Council 2030 Vision initiatives: a connected, informed, and engaged community; a diverse and inclusive community where everyone has equal access to opportunities in order to thrive and enjoy a high quality of life; and an affordable, livable, family-oriented, healthy, active, and safe community for all incomes, ages, and abilities.

2. TLAC received regular information regarding the Parks & Recreation Master Plan update and provided input and recommendations to the plan's Project Advisory Committee during the public outreach phase.
3. The committee also provided comments and advice regarding the America's Best Communities initiative and Tualatin's Americans with Disabilities Act Transition Plan.
4. TLAC received presentations from a number of library partners and recommended activities to strengthen these partnerships. Presentations included:
  - a. Teen Library Committee
  - b. Community Services
  - c. Tualatin Library Foundation
  - d. Friends of Tualatin Library
  - e. Tualatin's America's Best Communities project team

**C. HEAR AND CONSIDER COMPLAINTS ABOUT CITY LIBRARY POLICIES OR MATERIALS.**

1. TLAC holds open meetings and members of the public are invited to attend. No formal complaints were brought before the committee in 2017.
2. TLAC members review comment cards received by the City regarding the Library each month and provide input on the topics raised.

#### **4. ACTION PLAN FOR 2018**

##### **A. LONG-RANGE PLANNING**

TLAC will continue to be actively involved and provide citizen feedback for the City's Parks and Recreation Master Plan update and review Library services in light of priorities identified in the Library strategic plan.

##### **B. REVIEW OPERATIONAL POLICIES**

TLAC will continue to be actively involved and educated in the operations and roles of the Library. TLAC will provide citizen feedback as Library management reviews and updates operational policies, including an update to the Library Rules of Conduct.

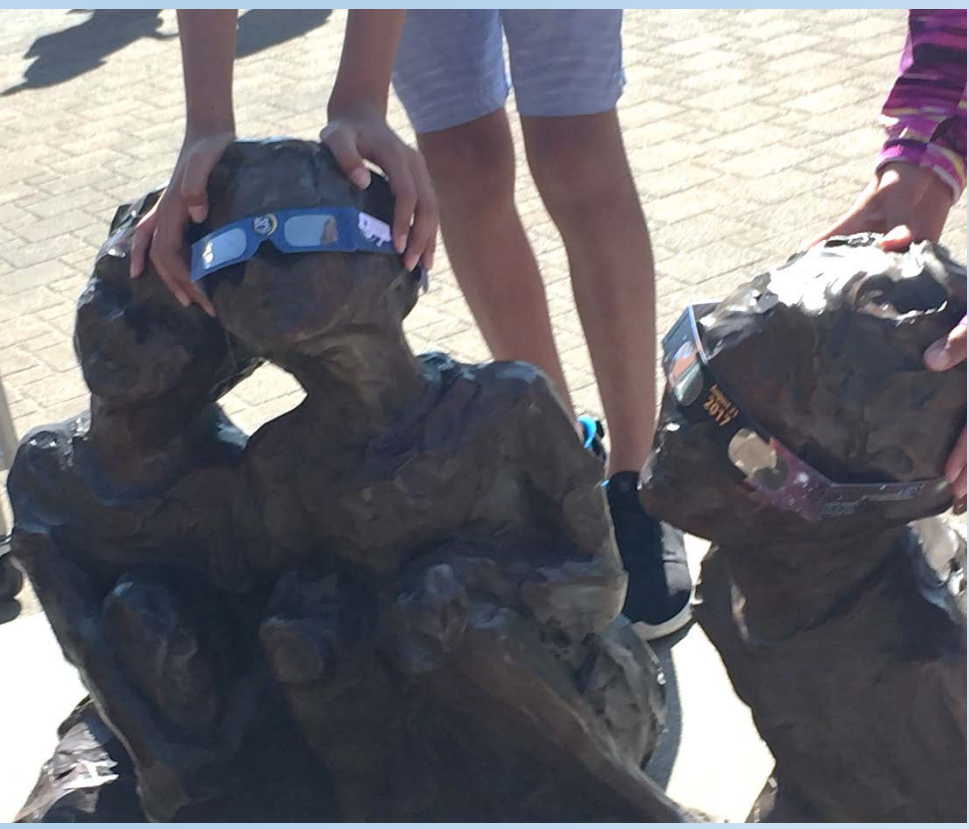
##### **C. ADVANCE COUNCIL VISION**

TLAC will support social equity and inclusion within Library programs and services, providing opportunity to thrive for all community members.

cc: Tualatin Library Advisory Committee (TLAC)



# Tualatin Library Advisory Committee (TLAC) – 2017 Annual Report



# Committee Members

## Members

Thea Woods, Chair

Marcus Young

Sonya Ambuehl

Nicholas Schiller, Vice-Chair

Hannah Watt

Laura Stewart

Alan Feinstein (not pictured)

## Former Members

Mohammed Dezay

Don Swygard

## Staff

Jerianne Thompson



# Committee Role

The role of TLAC is to:

- Consult with Library Manager on all matters affecting Library operational policy.
- Make recommendations to City Council regarding Library services, facilities, and improvements.
- Hear and consider complaints about Library policies or materials.

# Consult with Library Manager on all matters affecting Library operational policy

- Reviewed best practices for library policies
- Provided recommendations on policies: Distribution of Free Materials, Self-Reported Theft, Non-Library Activities on Library Plaza
- Provided comments & recommendations: overdue fines, Teen Room Code of Conduct, early literacy services, cooling center



# Recommendations regarding Library services, facilities, and improvements

- Community members experience library as welcoming place that inspires, delights, & satisfies curiosity.
- Community members gather, connect, engage, and are empowered through library.
- Young children are prepared for success in school.
- Latino residents discover library as gateway to community connection.
- Youth have hands-on access to technology and science learning tools.

# Recommendations regarding Library services, facilities, and improvements

## Highlighted Accomplishments:

- 97% surveyed storytime parents felt more confident helping their child learn
- 1000 Books Before Kindergarten launched
- Mobile Makerspace transitioned to ongoing Library program
- Opportunities for youth volunteers increased
- 3 bilingual staff hired

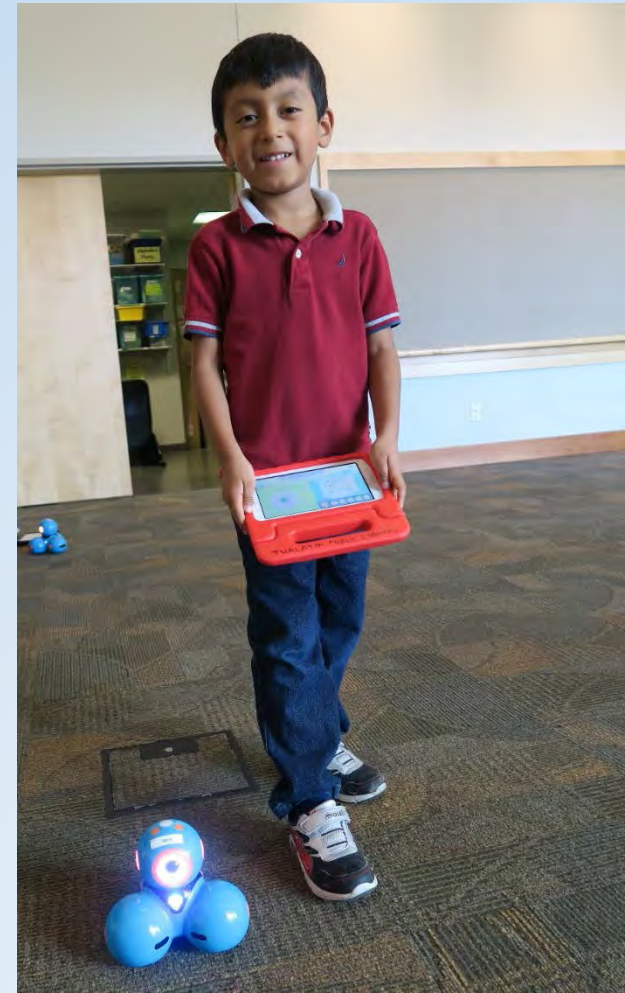


# Recommendations regarding Library services, facilities, and improvements

## ➤ Parks & Recreation Master Plan Update

➤ Americans with Disabilities Act Transition Plan

➤ Tualatin Mobile Makerspace (America's Best Communities competition)



# Hear and consider complaints about Library policies or materials

- Review comment cards, provide feedback





# Action Plan for 2018

- Provide input for the Parks and Recreation Master Plan update
- Review Library services prioritized in strategic plan
- Continue review of Library operational policies, including Library Rules of Conduct
- Support social equity & inclusion within Library programs and services



# Tualatin Library Advisory Committee (TLAC)



Questions?



# STAFF REPORT

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**THROUGH:** Sherilyn Lombos, City Manager

**FROM:** Erin Engman, Associate Planner  
Aquilla Hurd-Ravich, Community Development Director

**DATE:** 04/23/2018

**SUBJECT:** Request for Review of MAR17-0041, Tualatin Professional Center Driveway Adjustment Land Use Decision Located at 6464 SW Borland Road

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### **ISSUE BEFORE THE COUNCIL:**

This item is continued from the January 8, 2018 meeting. The applicant's representative requested to continue the Request for Review hearing to a date certain of April 23, 2018 (today), to allow the Tualatin Professional Center to submit a Variance application. VAR18-0001 was reviewed by the Planning Commission at a hearing on April 19, 2018. To provide adequate time to renotice the Request for Review hearing and prepare a staff report with the Variance decision and evidence, this item will be continued to the May 14, 2018 City Council hearing.

Council must make a final decision on the MAR17-0041 Request for Review before May 31, 2018 to meet the 120-day rule extension.

The Tualatin Professional Center Minor Architectural Review, MAR17-0041, driveway adjustment proposal was approved with conditions by staff on October 12, 2017. TPC submitted a request for review on October 26, 2017.

### **RECOMMENDATION:**

Motion to extend the Request for Review of MAR17-0041 to a date certain of May 14, 2018.

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**Attachments:** [Attachment A - Motion to Suspend](#)

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BEFORE THE TUALATIN CITY COUNCIL

**IN THE MATTER OF MAR 17-0041  
REQUEST FOR REVIEW BY  
TUALATIN PROFESSIONAL CENTER**

**MOTION TO SUSPEND  
REQUEST FOR REVIEW**

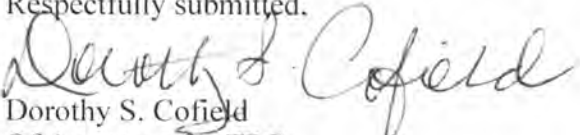
The appellant, Tualatin Professional Center (TPC) hereby requests that its Request for Review of MAR 17-0041 be suspended until April 23, 2018 to allow TPC to apply for a major variance to the Tualatin Planning Commission. Should the City Council grant the motion, the appellant agrees to extend the 120-day rule to May 31, 2018.

We have spoken to city staff and they are supportive of the TPC Motion to Suspend. To that end, city staff has prepared a Staff Memorandum of Support for the TPC Motion which details the procedure for the variance application and MAR 17-0041.

TPC has reviewed the staff memorandum and agrees with the process of review for the variance and associated MAR 17-0041 pending before the Council.

DATED this 3<sup>rd</sup> day of January, 2018.

Respectfully submitted,

  
Dorothy S. Cofield  
Of Attorneys for TPC