

PLANNING MANAGER DECISION

DATE: January 25, 2023

FILE NO.: LLA-22-06

REQUEST: Property Line Adjustment (LLA) between two legal lots at 1686 and 1688 19th

Street (tax lots 1600 and 1700).

PLANNER: Chris Myers, Associate Planner

 $\underline{\triangleright SW}$ Planning Manager

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GENERAL INFORMATION

OWNER/

APPLICANT: Michael Trusheim Michael Trusheim

> 9400 SE Clackamas Road 9400 SE Clackamas Road Clackamas OR, 97015 Clackamas OR, 97015

CONSULTANT: Daisy Goebel/AKS Engineering

3700 River Road N, Suite 1

Keizer, OR. 97303

Daisy Goebel/AKS Engineering

3700 River Road N, Suite 1

Keizer, OR. 97303

1686 19th Street SITE LOCATION:

Tax lot 1600

1688 19th Street

Tax lot 1700

SITE SIZE CURRENT: 11,823 sq. ft.

SITE SIZE PROPOSED: 12,106 sq. ft.

10,314 sq. ft. 10141 sq. ft.

LEGAL

DESCRIPTION: 31E03AA01600

> Tract 1 of a portion of Tract F, Willamette Falls

Acreage Tracts

31E03AA01700

Tract 2 of a portion of Tract F, Willamette Falls Acreage Tracts

COMP PLAN

DESIGNATION: Low Density Residential Low Density Residential

ZONING: R-10 R-10

APPROVAL

CRITERIA: Community Development Code (CDC):

Chapter 11: Single-family residential detached;

Chapter 85: Land Division.

The application became complete on November 9, 2022. The 120-day 120-DAY RULE:

period therefore ends on March 9, 2023.

PROJECT BACKGROUND

The applicant proposes to adjust the shared property line between the properties at 1686 Tract 1 of a portion of Tract F, Willamette Falls Acreage Tracts (tax lot 1600) and 1688 Tract 2 of a portion of Tract F, Willamette Falls Acreage Tracts (tax lot 1700). Both properties are legal lots of record. The property at 1686 currently has a single-family house. The property at 1688 contains a shed. The purpose of the property line adjustment is to accommodate the development of a single-family home on the westerly parcel (tax lot 1700). Both properties will be larger than the R-10 Zone requirement of 10,000 square feet. No additional lots will be created by the adjustment. The adjustment meets the standards of the land division chapter, and the dimensional standards and other provisions of the underlying R-10 zone.

In 2008, a Lot Line Adjustment (LLA-08-05) was approved to adjust the property line between these same two properties. The adjustment moved the shared property line to allow for an accessway from 19th street to tax lot 1700. See Exhibit PD-2 for details of LLA-08-05.

DECISION

The Planning Manager (designee) approves this application (LLA-22-06), based on: 1) the findings submitted by the applicant, which are incorporated by this reference; 2) supplementary staff findings included in the Addendum; and, 3) by the conditions of approval below:

- 1. The applicant shall file, with the county clerk, conveyances conforming the approved property line adjustment as surveyed in accordance with ORS 92.060(7) and any documents required by the county surveyor (such as an overplat).
- 2. The final property line adjustment map (or if applicable plat) showing the survey of the adjusted line(s) shall conform to the submittal dated November 9, 2022.

Chris Myers	
	January 25, 2023
Chris Myers, Associate Planner	Date

Appeals to this decision must be filed with the West Linn Planning Department within 14 days of the mailing date listed below. The cost of an appeal is \$400. The appeal must be filed by an individual who has established standing by submitting comments prior to the date identified in the public notice. Appeals will be heard by City Council. Approval will lapse 3 years from effective approval date if the final plat is not recorded.

Mailed this 26th day of January 2023.

Therefore, the 14-day appeal period ends at 4 p.m. on February 9, 2023.

ADDENDUM APPROVAL CRITERIA AND FINDINGS LLA-22-06

This decision adopts the findings for approval contained within the applicant's submittal, with the following exceptions and additions:

I. Chapter 11 Single-Family Residential Detached R-10 11.030 Permitted Uses

1. Single-family detached residential unit.

(...)

Staff Finding 1: The property at 1686 19th Street contains a single-family home. The property at 1688 is undeveloped and the applicant proposes to construct a single-family home after the property line adjustment. The criteria are met.

11.070 Dimensional Requirements, Uses Permitted Outright and Uses Permitted Under Prescribed Conditions

1. The minimum lot size shall be 10,000 square feet for a single-family detached unit.

Staff Finding 2: Staff incorporates applicant findings (see pages 6-7, Exhibit PD-1). The criteria are met.

2. The minimum front lot line length or the minimum lot width at the front lot line shall be 35 feet.

Staff Finding 3: Staff incorporates applicant findings (see pages 6-7, Exhibit PD-1). The criteria are met.

3. The average minimum lot width shall be 50 feet.

Staff Finding 4: Staff incorporates applicant findings (see pages 6-7, Exhibit PD-1). The criteria are met.

- 5. Except as specified in CDC $\underline{25.070}(C)(1)$ through (4) for the Willamette Historic District, the minimum yard dimensions or minimum building setback area from the lot line shall be:
- a. For the front yard, 20 feet; except for steeply sloped lots where the provisions of CDC $\underline{41.010}$ shall apply.
- b. For an interior side yard, seven and one-half feet.
- c. For a side yard abutting a street, 15 feet.
- d. For a rear yard, 20 feet.

Staff Finding 5: Staff incorporates applicant findings (see pages 6-7, Exhibit PD-1). The criteria are met.

- 6. The maximum building height shall be 35 feet, except for steeply sloped lots in which case the provisions of Chapter <u>41</u> CDC shall apply.
- 7. The maximum lot coverage shall be 35 percent.
- 8. The minimum width of an accessway to a lot which does not abut a street or a flag lot shall be 15 feet.
- 9. The maximum floor area ratio shall be 0.45. Type I and II lands shall not be counted toward lot area when determining allowable floor area ratio, except that a minimum floor area ratio of 0.30 shall be allowed regardless of the classification of lands within the property. That 30 percent shall be based upon the entire property including Type I and II lands. Existing residences in excess of this standard may be replaced to their prior dimensions when damaged without the requirement that the homeowner obtain a non-conforming structures permit under Chapter 66 CDC.
- 10. The sidewall provisions of Chapter <u>43</u> CDC shall apply.

Staff Finding 6: Staff incorporates applicant findings (see pages 6-7, Exhibit PD-1). The criteria are met.

II. Chapter 85 General Provisions

85.210 Property Line Adjustments – Approval Standards

- A. The Director shall approve or deny a request for a property line adjustment based on the criteria stated below:
- 1. An additional lot or parcel shall not be created by the line adjustment.

Staff Finding 7: The proposal adjusts the common property line between two existing lots of record at 1686 and 1688 19th Street. No additional lots or parcels are proposed to be created. The criteria are met.

2. The existing property shall not be reduced in size by the adjustments below the minimum lot or parcel size established by the approved zoning for that district. The property line adjustment shall not enlarge, increase or extend the non-conformity of a non-conforming lot or non-conforming structure.

Staff Finding 8: After adjustment, 1686 19th Street will decrease to 10,142 square feet and 1688 will increase to 12,107 square feet. Both lots are located in the R-10 zone, which requires 10,000 square foot minimum lot size. Both properties maintain the minimum lot size of 10,000 square feet for the R-10 zone.

The criteria are met.

- 3. Property line adjustments shall be either:
- a. A straight line (see Figure 1 example);

- b. A line with maximum of two 45- to 90-degree turns (see Figure 2 example); or
- c. A maximum of three turns less than 45 degrees (see Figure 3 example). (The following figures are only intended as examples.)

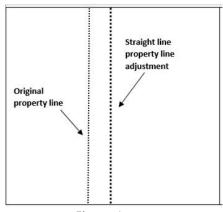


Figure 1

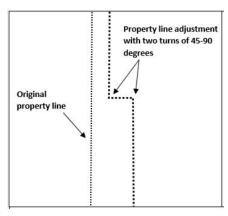
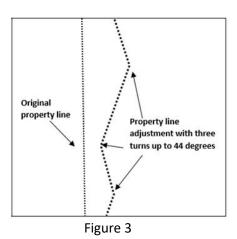


Figure 2



Staff Finding 9: The proposal adjusts the common rear/side property line between two existing lots of record. The existing common property line is straight. After adjustment, the common property line will remain straight, (see Figure 1).

The criteria are met.

4. The property line adjustment shall not create a lot or parcel that violates applicable site development regulations.

Staff Finding 10: After adjustment, both 1686 and 1688 19th Street will continue to meet site development regulations.

The criteria are met.

5. The property line adjustment will not adversely affect existing easements or existing utilities unless an easement vacation is obtained, replacement easements are established, or any required utility relocations are paid for by the applicant.

Staff Finding 11: The proposal does not adversely affect any existing easements or utilities. The subject property does not have any easements. The criteria are met.

6. Proposed property line adjustments that cannot meet these standards are subject to review under CDC $\underline{99.060}(B)(2)(e)$.

Staff Finding 12: The proposal meets the standards for a property line adjustment and does not require a variance (see Staff Findings 7 to 11).

The criteria are met.

- 7. Any appeal must be filed in accordance with CDC <u>99.240</u>.
- B. The provisions of CDC <u>85.070</u> shall also apply to property line adjustments.

Staff Finding 13: The applicant understands the process and right to appeal the decision. The provisions of CDC section 85.070 "ADMINISTRATION AND APPROVAL PROCESS" are satisfied by this application (see Exhibit PD-1) for the two lots of record subject to the proposal. The application is being processed in agreement with the provisions of CDC Chapter 99. The criteria are met.

PD-1 APPLICANT SUBMITTAL



Planning & Development • 22500 Salamo Rd #1000 • West Linn, Oregon 97068 Telephone 503.656-3535 • westlinnoregon.gov

DEVELOPMENT REVIEW APPLICATION

	For Office Use Only				
STAFF CONTACT Chris Myers	PROJECT No(s). LLA-22-06				PRE-APPLICATION NO. PA-22-17
Non-Refundable Fee(s) \$800 + \$200	REFUNDABLE DEPOSIT(S)		TOTAL		\$1,000
Appeal and Review (AP) Code Interpretation Conditional Use (CUP) Design Review (DR) Tree Easement Vacation Final Plat or Plan (FP) Legis Mind Mod Non-	oric Review lative Plan or Change ine Adjustment (LLA) or Partition (MIP) (Preliminary Plat or Platification of Approval Conforming Lots, Uses & Structures ned Unit Development (PUD) et Vacation Addressing, and Sign applications re	an)	Vater Reso Villamette Zone Chang	Uses sion (AR) urce Are urce Are & Tuala	a Protection/Single Lot (WA) a Protection/Wetland (WAP) tin River Greenway (WRG) able on the City website.
Site Location/Address:		Assess	or's Map	No.:	31E03AA
1686 19th Street and adjacent vacant	parcel	Tax Lo	t(s): 1600	and 170	00
		Total L	and Area	a: ±22,2	50 Square Feet
Property Line Adjustment between Tax Applicant Name: (please print) Address: 9400 SE Clackamas Road	c Lot 1600 and Tax Lot 1700	Ph	one: Cor	ntact A	applicant's Consultant
City State Zip: Clackamas OR, 97015		EII	iaii.		
Owner Name (required): Same as Applicar Address:	nt		one: nail:		
City State Zip: Consultant Name: Daisy Goebel, AKS Er Address: 3700 River Road N, Suite City State Zip: Keizer, OR 97303	ngineering and Forestry e 1			•	00-6028 @aks-eng.com
 All application fees are non-refundable (a) The owner/applicant or their representated. A decision may be reversed on appeal. The submit this form and supporting docume https://westlinnoregon.gov/planning/submit 	tive should be present at all pul ne permit approval will not be effective onts through the Submit a Land Use	olic hear ctive unti	ings. I the appe	eal peri	
The undersigned property owner(s) hereby author hereby agree to comply with all code requirement complete submittal. All amendments to the Compapproved shall be enforced where applicable. Application application. Applicant's signature	ts applicable to my application. Acce nunity Development Code and to oth	ptance of ner regula developm	this appli itions adop nent is not	cation c pted aft	loes not infer a er the application is

1686 19th Street Property Line Adjustment

Date: October 2022

Submitted to: City of West Linn

22500 Salamo Road #1000 West Linn, OR 97068

Applicant: Michael Trusheim

9400 SE Clackamas Road Clackamas, OR 97015

AKS Job Number: 9269



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Exhibits

Exhibit A: City Application Form Exhibit B: Preliminary Plans Exhibit C: Title Documents

Exhibit D: Pre-Application Conference Summary **Exhibit E:** Tree Removal Application and Photos **Exhibit F:** Preliminary Stormwater Report

Land Use Application for a Property Line Adjustment

Submitted to: City of West Linn

Planning Department 22500 Salamo Road #1000 West Linn, OR 97068

Applicant: Michael Trusheim

9400 SE Clackamas Road Clackamas, OR 97015

Property Owners: Michael Trusheim

9400 SE Clackamas Road Clackamas, OR 97015

Applicant's Consultant: AKS Engineering & Forestry, LLC

3700 River Road N, Suite 1

Keizer, OR 97303

Contact(s): Daisy Goebel

Email: goebeld@aks-eng.com

Phone: (503) 400-6028

Site Location: 1686 19th Street, West Linn

Clackamas County Assessor's

Map: Tax Lots 1600 and 1700 of Map Number 3 1 E 03AA

Site Size: ±22,248 sf

Land Use Districts: Residential (R-10)

I. Executive Summary

AKS Engineering and Forestry (AKS) is submitting this application on behalf of Michael Trusheim (Owner/Applicant) for a property line adjustment (PLA) application in accordance with the provisions of the West Linn Community Development Code (CDC) to modify the location of the shared property line between the subject parcels for the purpose of accommodating the development of a single-family home on the westerly parcel. In addition to the PLA, this application includes a tree removal permit to allow for the removal of two on-site trees that is necessary to accommodate access to the westerly parcel and utilities in the access and utility easement created when the subject parcel was partitioned (document number 2010-6169). This application includes the City of West Linn (City) application forms, written materials, and preliminary plans necessary for staff to review and determine compliance with the applicable approval criteria. The evidence is substantial and supports the City's approval of the application.

This application involves the development of land for housing. ORS 197.307(4) states that a local government may apply only clear and objective standards, conditions, and procedures regulating the provision of housing, and that such standards, conditions, and procedures cannot have the effect, either in themselves or cumulatively, of discouraging housing through unreasonable cost or delay. In addition, this application involves a "limited land use decision" as that term is defined in ORS 197.015(12). The significance of this statutory provision is also discussed below.

Oregon Courts and the Land Use Board of Appeals (LUBA) have generally held that an approval standard is not clear and objective if it imposes on an applicant "subjective, value-laden analyses that are designed to balance or mitigate impacts of the development" (Rogue Valley Association of Realtors v. City of Ashland, 35 Or LUBA 139, 158 [1998] aff'd, 158 Or App 1 [1999]). ORS 197.831 places the burden on local governments to demonstrate that the standards and conditions placed on housing applications can be imposed only in a clear and objective manner. While this application addresses all standards and conditions, the Applicant reserves the right to object to the enforcement of standards or conditions that are not clear and objective and does not waive its right to assert that the housing statutes apply to this application. [The exceptions in ORS 197.307(5) do not apply to this application].

ORS 197.195(1) describes how certain standards can be applied as part of a limited land use application. The applicable land use regulations for this application are found in West Linn Community Development Code Chapter 85.201—Property Line Adjustments—Approval Standards. Pursuant to ORS 197.195(1) Comprehensive Plan provisions (as well as goals, policies, etc. from within the adopted elements of the Comprehensive Plan) may not be used as a basis for a decision or an appeal of a decision unless they are specifically incorporated into the land use regulations. While this application may respond to Comprehensive Plan and/or related documents, such a response does not imply or concede that said provisions are applicable approval criteria. Similarly, the Applicant does not waive its right to object to the attempted implementation of these provisions unless they are specifically listed in the applicable land use regulations, as is required by ORS 197.195(1).

Pursuant to ORS 197.522, if this application is found to be inconsistent with the applicable land use regulations, the Applicant may offer an amendment or propose conditions of approval to make the application consistent with applicable regulations. In fact, the local government is obligated to consider and impose any conditions of approval proposed by the Applicant, if such conditions would allow the local government to approve an application that would not otherwise meet applicable approval criteria.

II. Site Description/Setting

The subject site includes two lots, described as Tax Lots 1600 and 1700 of Clackamas County Assessor's Map Number 3 1 E 03AA. The site comprises ±22,248 total square feet and is located within West Linn's Residential (R-10) zoning district. A single-family residence is currently located on Tax Lot 1600 with access directly from 19th Street. Surrounding lots are also developed with single-family residential homes. Abutting homes to the west and north are accessed by a ±32-foot-wide private shared access drive that intersects with 19th Street immediately north of the subject site. Tax Lot 1700 will be accessed via an existing 15-foot-wide easement across Tax Lot 1600, which will be widened to accommodate access to the site as well as drainage and utility facilities to serve future development on Tax Lot 1700. The planned utility improvements will impact two on-site coniferous trees. These trees, shown on the Preliminary Demolition Plan, are included in this application package for removal.

III. Applicable Review Criteria

CITY OF WEST LINN COMMUNITY DEVELOPMENT CODE

CHAPTER 8—BUILDING (TREE REMOVAL)

8.610 CONTENTS OF APPLICATION FOR TREE REMOVAL

A permit shall be required to remove any tree in West Linn unless such permit is waived by the City Manager. For the purposes of this ordinance, only trees meeting the criteria set forth in the definitions section (8.510) and Street Trees section (8.720) are required to get a permit. Trees of smaller diameter than the standards stipulated in WLMC 8.510 do not require a permit to be removed.

The application shall include:

- 1. A completed Tree Removal Permit Application. This includes the following information:
 - a. The owner's name, address, and phone number;
 - b. The site address for the tree removal;
 - c. The number, diameter, and species of trees requested to be removed;
 - d. Reasons justifying the removal, referencing the criteria in section 8.630;
 - e. The owner's signature and date.

Response:

This Tree Removal Permit Application requests approval to remove two coniferous trees, located south of the planned driveway, to accommodate access and utility facilities necessary to serve tax lot 1700. The Tree Removal Permit Application and Preliminary Plans (Exhibit B) included with this package include the required information. This criterion is met.

- 2. A site plan of the property upon which the tree proposed for removal is located. Applicants may use maps available through the City's GIS mapping system. The site plan should show the following:
 - a. The location of the tree(s) to be removed;
 - b. The location of any existing building footprint(s);
 - c. The location of any new or planned building expansion(s). (This applies to construction that is exempt from permitting under the Building Code.);
 - d. The location of any paved or concreted areas on the property.

Response:

The Preliminary Plans (Exhibit B) include a demolition plan identifying the location of the trees to be removed, the location of existing and planned buildings, and the areas that will be paved in accordance with CDC standards. This criterion is met.

3. After clearly marking the tree(s) on the property with brightly colored tape, the applicant shall take and include with the application photograph(s) of the tree(s) to be removed and the surrounding area.

Response:

Photos of the trees planned for removal are included in this package as Exhibit E. This criterion is met.

- 4. The applicant may, at their discretion, submit a report by an arborist on the health and structure of the tree(s) to be removed and the impact of such removal upon surrounding trees. In no way should this be construed to mean that the City requires such a report, except as noted below. Reports from other professionals (engineers, appraisers, etc.) may also be included in the application but are not required.
 - a. If the application is being made on the criteria in Section 8.630 A-2 "damaged root structure that will lead to death," than a formal report from an arborist is required.

Response:

This Tree Removal Permit Application does not include claims related to the health or structure of the affected trees. This criterion is not applicable.

8.630 TREE REMOVAL PERMIT CRITERIA

- A. In making a determination whether to grant a permit, the City shall consider the criteria listed below. The decision shall include findings that cite each of these criteria. These criteria are meant to be guides, and the varying importance or weight of each in determining the appropriateness of tree removal shall be as expressed in the findings:
 - 1. Any of the following criteria shall be considered as aspects likely to warrant approval of a tree removal permit:
 - (a) The tree is determined to be dead or dying and not recoverable.
 - (b) The tree is determined to have a significantly damaged root structure that will adversely impact the health and stability of the tree. Such a determination shall be based upon a report provided by the applicant. The report shall be reviewed and verified by the City Arborist.
 - (c) The tree is determined to exhibit a hazardous growth habit.
 - (d) The tree is interfering with utility service in such a manner that full restoration or maintenance of service requires removal of the tree.
 - (e) The tree encroaches in the public right-of-way so as to cause damage to improvements within the public right-of-way such as street pavement and sidewalks.
 - (f) The tree is causing structural damage that includes, but is not limited to, foundations, water lines and sewer lines.
 - (g) The basal flare of the tree is within 10 feet of an existing building footprint.
 - (h) An existing building footprint lies within the drip line of the tree.
 - (i) Trees that have been maintained in the applicant's property for the purpose of growing fruit which are no longer bearing fruit or have suffered a significant reduction in fruit bearing.

- Removal of trees is being done for thinning purposes to enhance the health of other trees.
- (k) In the absence of denial criteria listed below, removal is for the owner's landscape improvement but does not jeopardize the aesthetics of the neighborhood.
- (l) The removal would allow solar access for an otherwise extremely shaded property.

Response:

This tree removal request is necessary to accommodate the installation and future maintenance of required stormwater and sanitary sewer facilities. This request is not warranted as a direct result of the above criteria. These criteria are not applicable.

- 2. Any of the following criteria shall be considered as aspects likely to warrant denial of a tree removal permit:
 - (a) The tree is visually prominent.
 - (b) The tree is generally healthy and of sound structure.
 - (c) The tree is of significant size.
 - (d) The tree is part of a larger grove or grouping of trees, and its removal will adversely affect the health and safety of the remaining trees within the grove or grouping.
 - (e) The tree is on land that is sloped, and removal of the tree may exacerbate erosion or soil slumping in the vicinity of the tree.
 - (f) The tree acts as a privacy barrier for adjacent properties.
 - (g) Tree removal is solely to improve a view.

Response:

These criteria do not comply with the provisions of ORS 197.307(4), addressed in the executive summary of this narrative, concerning the City's responsibility to apply only clear and objective standards to applications that involve land for housing. Because the applicable language is neither clear nor objective, the City may not rely on these criteria as a basis for the denial of this Tree Removal Permit Application. These criteria are not applicable.

- B. The City shall deny a tree removal permit if any of the following criteria is met:
 - 1. The tree is designated by the City of West Linn as a heritage tree, unless one of the criteria in subsections (A)(1)(a) through (d) of this section applies and the hearing is followed, as noted in Section 8.710.
 - 2. The tree is located within an open space drainageway, drainageway transition area, wetland, wetland transition area, Willamette River Greenway area, or Tualatin River protection zone as defined by the West Linn Community Development Code, unless one of the criteria in subsections (1)(a) through (d) of this section apply.
 - 3. The tree is protected by an existing tree conservation easement, unless criteria in subsections (1)(a) through (d) of this section apply.

Response:

The trees planned for removal, shown on the Preliminary Plans (Exhibit B), are not designated as heritage trees, located within an applicable resource area, or protected by an existing tree conservation easement. These criteria are not applicable.

C. It is encouraged, but not mandated, that the property owner replace a tree that is removed.

Response: This recommendation is understood.

CHAPTER 11—Residential, R-10

11.030 PERMITTED USES

The following are uses permitted outright in this zoning district:

- 1. Single-family attached or detached residential unit.
 - a. Duplex residential units.
 - b. Triplex residential units.
 - c. Quadplex residential units.
- 2. Cottage clusters
- 3. Townhouse.

[...]

Response:

This application requests a property line adjustment to allow for the construction of a single-family detached residential home, which is a permitted use in the R-10 zoning district.

11.070 DIMENSIONAL REQUIREMENTS, USES PERMITTED OUTRIGHT AND USES PERMITED UNDER PERSCRIBED CONDITIONS

Except as may be otherwise provided by the provisions of this code, the following are the requirements for uses within this zone:

Table 1: Dimensional Requirements					
Chandand	Additional Notes Adjusted Tax Lot Adjusted Tax Lot				
Standard	Requirement	[as applicable]	1700	1600	
Minimum lot size		For a single-family			
	10,000 sf	attached or	±12,106.72	±10,141.69	
		detached unit			
Minimum lot width at front	35 ft		±95 ft	±95 ft.	
lot line	33 11		195 IL	±95 II.	
Average minimum lot width	50 ft		±95 ft	±95 ft	
Minimum front yard	20 ft		124 ft	No Change	
setback	20 ft		±24 ft.	No Change	
Minimum interior side yard	7.5 ft		±13 ft	No Change	
setback	7.511		113 IL	No Change	
Street side yard setback	15 ft		±15 ft	±20 ft	
Rear yard setback	20 ft		±26.5 ft	±30 ft	
Maximum building height	35 ft		32 ft.	No change	
Maximum lot coverage		A developer may			
	250/	deduct up to 200 sf	±20% including	±28% including	
	35%	for an attached	garage	garage	
		garage or carport.			
Minimum accessway width					
to a lot which does not abut	15 ft		N/A	±25 ft	
a street or flag lot					
Maximum floor area ratio	.45		N/A	.17	

Response:

As shown above and identified on the Preliminary Plans (Exhibit B), the adjusted property line will not result in any of the applicable lot dimensions being adjusted below the minimum allowable standards. Standards that pertain to the future home will be reviewed at the time of building permit approval. These criteria are met.

[...]

CHAPTER 46—OFF-STREET PARKING, LOADING, AND RESERVOIR AREAS

46.020 APPLICABILITY AND GENERAL PROVISIONS

- A. At the time a structure is erected or enlarged, or the use of a structure or unit of land is changed within any zone, parking spaces, loading areas and reservoir areas shall be provided in accordance with the requirements of this chapter unless other requirements are otherwise established as a part of the development approval process.
- B. The provision and maintenance of off-street parking and loading spaces are the continuing obligation of the property owner.
- C. No building or other permit shall be issued until plans are approved that show the property that is and will remain available for exclusive use as off-street parking and loading space as required by this chapter.
- D. Required parking spaces and loading areas shall be improved to the standards contained in this chapter and shall be available for use at the time of the final building inspection except as provided in CDC 46.150.

Response:

The planned structure includes a garage compliant with these standards. These criteria can be met.

[...]

46.090 MINIMUM OFF-STREET PARKING SPACE REQUIREMENTS

- A. Residential parking space requirements
 - 1. Single-family residences (attached or detached): 1 space for each dwelling unit; may or may not be in garage or carport.

[...]

F. Maximum parking. Parking spaces (except for single-family and two-family residential uses) shall not exceed the minimum required number of spaces by more than 10 percent.

Response:

The planned residential structure includes a 574-square-foot garage designed to accommodate two vehicles. Because single-family residential uses are exempt from parking maximums, this criterion is met.

46.150 DESIGN AND STANDARDS

The following standards apply to the design and improvement of areas used for vehicle parking, storage, loading, and circulation:

A. Design standards.

[...]

I. Off-street parking spaces for single- and two-family residences shall be improved with an asphalt or concrete surface, or a permeable parking surface designed to reduce surface runoff, to specifications as approved by the Building Official. Other parking facilities for two- and single-family homes that are to accommodate additional vehicles, boats, recreational vehicles, and trailers, etc., need not be paved. All parking for multi-family residential development shall be paved with

concrete or asphalt. Driveways shall measure at least 20 feet from the back of sidewalk to garage or the end of the parking pad to accommodate cars and sport utility vehicles without the vehicles blocking the public sidewalk.

Response:

The planned garage and driveway associated with the future residential home on Tax Lot 1700 will be improved with concrete surfacing in accordance with City standards and specifications. The driveway accessing the garage will measure ±40 feet in length and will not block any public ways. This criterion is met.

[...]

15. The maximum driveway grade for single-family housing shall be 15 percent. The 15 percent shall be measured along the centerline of the driveway only. Grades elsewhere along the driveway shall not apply. Variations require approval of a Class II variance by the Planning Commission pursuant to Chapter 75 CDC. Regardless, the last 18 feet in front of the garage must maintain a maximum grade of 12 percent as measured along the centerline of the driveway only. Grades elsewhere along the driveway shall not apply.

Response:

As shown on the Driveway Access Lane Plan and Profile included in Exhibit B, the finished grade of the planned driveway ranges from 1.5 percent to -2.3 percent, well below the maximum 15 percent grade. This criterion is met.

[...]

CHAPTER 48—ACCESS, EGRESS, AND CIRCULATION

48.020 APPLICABILITY AND GENERAL PROVISIONS

A. The provisions of this chapter do not apply where the provisions of the Transportation System Plan or land division chapter are applicable and set forth differing standards.

Response:

This chapter does not conflict with any standards of the Transportation System Plan or land division chapter; this criterion is not applicable.

B. All lots shall have access from a public street or from a platted private street approved under the land division chapter.

Response:

Tax Lot 1700 will have direct access from 19th Street via a private driveway within an access easement over Tax Lot 1600. This criterion is met.

C. No building or other permit shall be issued until scaled plans are presented to the City and approved by the City as provided by this chapter, and show how the access, egress, and circulation requirements are to be fulfilled. Access to State or County roads may require review, approval, and permits from the appropriate authority.

Response:

This application package is intended to provide the City with sufficient information to verify compliance with all applicable standards and criteria prior to applying for building permits. The plans included in Exhibit B and this narrative demonstrate how applicable access, egress, and circulation requirements are to be fulfilled. This criterion is met.

D. Should the owner or occupant of a lot, parcel or building enlarge or change the use to which the lot, parcel or building is put, resulting in increasing any of the requirements of this chapter, it shall be unlawful and a violation of this code to begin or maintain such altered use until the provisions of this chapter have been met, and, if required, until the appropriate approval authority under Chapter 99 CDC has approved the change.

Response: This criterion is understood.

E. Owners of two or more uses, structures, lots, parcels, or units of land may agree to utilize jointly the same access and egress when the combined access and egress of both uses, structures, or parcels of land satisfies the requirements as designated in this code; provided, that satisfactory legal evidence is presented to the City Attorney in the form of deeds, easements, leases, or contracts to establish joint use. Copies of said instrument shall be placed on permanent file with the City Recorder.

Response:

The planned driveway will serve Tax Lot 1700 via a private access and utility easement over Tax Lot 1600. The existing home will continue to utilize the existing access directly from 19th Street. This criterion is not applicable.

F. Property owners shall not be compelled to access their homes via platted stems of flag lots if other driveways and easements are available and approved by the City Engineer.

Response:

The future residential home will be served by a private driveway to be constructed within an existing access easement across Tax Lot 1600. The easement will be widened to accommodate emergency vehicle access as well as stormwater infrastructure, as shown on the Preliminary Plans (Exhibit B). As discussed during the pre-application conference on June 2, 2022, with the City of West Linn, providing access to Tax Lot 1700 via the existing shared access drive to the north is not an option due to the number of existing platted flag lot stems comprising the shared access.

48.025 ACCESS CONTROL

A. Purpose. The following access control standards apply to public, industrial, commercial and residential developments including land divisions. Access shall be managed to maintain an adequate level of service and to maintain the functional classification of roadways as required by the West Linn Transportation System Plan.

Response:

This application does not include a land division but intends to preemptively ensure compliance with applicable access control standards that will be applied to the construction of a single-family home on Tax Lot 1700.

- B. Access control standards.
 - 1. Traffic impact analysis requirements. The City or other agency with access jurisdiction may require a traffic study prepared by a qualified professional to determine access, circulation and other transportation requirements. (See also CDC 55.125, Transportation Impact Analysis.)

Response:

This application does not include a subdivision, partition, or other development review process that would create significant adverse impacts warranting a Traffic Impact Analysis. This requirement is not applicable.

2. The City or other agency with access permit jurisdiction may require the closing or consolidation of existing curb cuts or other vehicle access points, recording of reciprocal access easements (i.e., for shared driveways), development of a frontage street, installation of traffic control devices, and/or other mitigation as a condition of granting an access permit, to ensure the safe and efficient operation of the street and highway system. Access to and from off-street parking areas shall not permit backing onto a public street.

Response:

The planned configuration was developed in consultation with City staff. The design will not compromise the safe and efficient operation of the street system and will not permit backing onto a public street. This criterion is met.

- 3. Access options. When vehicle access is required for development (i.e., for off-street parking, delivery, service, drive-through facilities, etc.), access shall be provided by one of the following methods (planned access shall be consistent with adopted public works standards and TSP). These methods are "options" as approved by the City Engineer.
 - a) Option 1. Access is from an existing or proposed alley or mid-block lane. If a property has access to an alley or lane, direct access to a public street is not permitted.
 - b) Option 2. Access is from a private street or driveway connected to an adjoining property that has direct access to a public street (i.e., "shared driveway"). A public access easement covering the driveway shall be recorded in this case to assure access to the closest public street for all users of the private street/drive.
 - c) Option 3. Access is from a public street adjacent to the development lot or parcel. If practicable, the owner/developer may be required to close or consolidate an existing access point as a condition of approving a new access. Street accesses shall comply with the access spacing standards in subsection (B)(6) of this section.

Response:

The planned home will take access from the public street via a private driveway located on an existing easement across the neighboring property in accordance with Option 2, above. This criterion is met.

4. Subdivisions fronting onto an arterial street. New residential land divisions fronting onto an arterial street shall be required to provide alleys or secondary (local or collector) streets for access to individual lots. When alleys or secondary streets cannot be constructed due to topographic or other physical constraints, access may be provided by consolidating driveways for clusters of two or more lots (e.g., includes flag lots and mid-block lanes).

Response:

This application does not include a land division fronting onto an arterial street. This criterion is not applicable.

5. Double-frontage lots. When a lot or parcel has frontage onto two or more streets, access shall be provided first from the street with the lowest classification. For example, access shall be provided from a local street before a collector or arterial street. When a lot or parcel has frontage opposite that of the adjacent lots or parcels, access shall be provided from the street with the lowest classification.

Response:

This application does not include parcels with frontage onto two or more streets. This criterion is not applicable.

- 6. Access spacing.
 - a. The access spacing standards found in the adopted Transportation System Plan (TSP) shall be applicable to all newly established public street intersections and non-traversable medians. Deviation from the access spacing standards may be granted by the City Engineer if conditions are met as described in the access spacing variances section in the adopted TSP.
 - b. Private drives and other access ways are subject to the requirements of CDC 48.060.

Response:

This application does not include the establishment of new public street intersections or non-traversable medians. The requirements of CDC 48.060 do not apply to the planned

driveway since there are no curbs on the subject site's frontage that require new curb cuts. These criteria are met.

7. Number of access points. For single-family (detached and attached), two-family, and duplex housing types, one street access point is permitted per lot or parcel, when alley access cannot otherwise be provided; except that two access points may be permitted corner lots (i.e., no more than one access per street), subject to the access spacing standards in subsection (B)(6) of this section. The number of street access points for multiple family, commercial, industrial, and public/institutional developments shall be minimized to protect the function, safety and operation of the street(s) and sidewalk(s) for all users. Shared access may be required, in conformance with subsection (B)(8) of this section, in order to maintain the required access spacing, and minimize the number of access points.

Response:

Only one access point is planned for each existing lot. This criterion is met.

- 8. Shared driveways. The number of driveway and private street intersections with public streets shall be minimized by the use of shared driveways with adjoining lots where feasible. The City shall require shared driveways as a condition of land division or site design review, as applicable, for traffic safety and access management purposes in accordance with the following standards:
 - a. Shared driveways and frontage streets may be required to consolidate access onto a collector or arterial street. When shared driveways or frontage streets are required, they shall be stubbed to adjacent developable parcels to indicate future extension. "Stub" means that a driveway or street temporarily ends at the property line, but may be extended in the future as the adjacent lot or parcel develops. "Developable" means that a lot or parcel is either vacant or it is likely to receive additional development (i.e., due to infill or redevelopment potential).
 - b. Access easements (i.e., for the benefit of affected properties) shall be recorded for all shared driveways, including pathways, at the time of final plat approval or as a condition of site development approval.
 - c. Exception. Shared driveways are not required when existing development patterns or physical constraints (e.g., topography, lot or parcel configuration, and similar conditions) prevent extending the street/driveway in the future.

Response:

Several options for providing access to Tax Lot 1700 were discussed with City staff during the pre-application conference. Because there are currently four homes utilizing the adjacent flag lot access to 19th Street, staff determined that creating a fifth flag lot stem would not be advisable. As shown on the Preliminary Plans (Exhibit B), the existing 15-foot private access and utility easement across Tax Lot 1600 will be widened to accommodate access and stormwater management for Tax Lot 1700. A shared driveway is not feasible for the development of this site. Therefore, these criteria are not applicable.

[...]

48.030 MINIMUM VEHICULAR REQUIREMENTS FOR RESIDENTIAL USES

A. Direct individual access from single-family dwellings and duplex lots to an arterial street, as designated in the transportation element of the Comprehensive Plan, is

prohibited for lots or parcels created after the effective date of this code where an alternate access is either available or is expected to be available by imminent development application. Evidence of alternate or future access may include temporary cul-de-sacs, dedications or stub outs on adjacent lots or parcels, or tentative street layout plans submitted at one time by adjacent property owner/developer or by the owner/developer, or previous owner/developer, of the property in question.

In the event that alternate access is not available as determined by the Planning Director and City Engineer, access may be permitted after review of the following criteria:

- 1. Topography.
- 2. Traffic volume to be generated by development (i.e., trips per day).
- 3. Traffic volume presently carried by the street to be accessed.
- 4. Projected traffic volumes.
- 5. Safety considerations such as line of sight, number of accidents at that location, emergency vehicle access, and ability of vehicles to exit the site without backing into traffic.
- 6. The ability to consolidate access through the use of a joint driveway.
- 7. Additional review and access permits may be required by State or County agencies.

Response:

This application does not include direct access onto an arterial street. This criterion is not applicable.

- B. When any portion of any house is less than 150 feet from the adjacent right-of-way, access to the home is as follows:
 - One single-family residence, including residences with an accessory dwelling unit as defined in CDC 02.030, shall provide 10 feet of unobstructed horizontal clearance. Dual-track or other driveway designs that minimize the total area of impervious driveway surface are encouraged.

Response:

The planned single-family residence will be located partially within 150 feet of the adjacent 19th Street right-of-way. The private driveway will include 12 feet of pavement width and 4-foot gravel shoulders on each side in compliance with this provision. This criterion is met.

2. Two to four single-family residential homes equals a 14- to 20-foot-wide paved or all-weather surface. Width shall depend upon adequacy of line of sight and number of homes.

Response:

This application does not include the development of more than one single-family home. This criterion does not apply.

3. Maximum driveway grade shall be 15 percent. The 15 percent shall be measured along the centerline of the driveway only. Variations require approval of a Class II variance by the Planning Commission pursuant to Chapter 75 CDC. Regardless, the last 18 feet in front of the garage shall be under 12 percent grade as measured along the centerline of the driveway only. Grades elsewhere along the driveway shall not apply.

Response:

As shown on the preliminary driveway profile included in the Preliminary Plans (Exhibit B), the finished grade of the planned driveway will range from 1.5 percent to 2.3 percent, well below the maximum 15 percent grade. This criterion is met.

4. The driveway shall include a minimum of 20 feet in length between the garage door and the back of sidewalk, or, if no sidewalk is proposed, to the paved portion of the right-of-way.

Response:

As shown on the Preliminary Plans (Exhibit B), the conceptual garage is located ±140 feet from the adjacent 19th Street right-of-way, perpendicular to the planned driveway. This criterion is met.

- C. When any portion of one or more homes is more than 150 feet from the adjacent right-of-way, the provisions of subsection B of this section shall apply in addition to the following provisions.
 - 1. A turnaround may be required as prescribed by the Fire Chief.
 - 2. Minimum vertical clearance for the driveway shall be 13 feet, six inches.
 - 3. A minimum centerline turning radius of 45 feet is required unless waived by the Fire Chief.
 - 4. There shall be sufficient horizontal clearance on either side of the driveway so that the total horizontal clearance is 20 feet.

Response:

Portions of the planned residential home will be more than 150 feet from the adjacent 19th Street right-of-way. The planned layout has been developed in coordination with the Fire Department and includes sufficient vertical and horizontal clearance to allow for emergency vehicle access. These criteria are met.

D. Access to five or more single-family homes shall be by a street built to full construction code standards. All streets shall be public. This full street provision may only be waived by variance.

Response:

This application does not include access to five or more single-family homes. This criterion is not applicable.

- E. Access and/or service drives for multi-family dwellings shall be fully improved with hard surface pavement:
 - 1. With a minimum of 24-foot width when accommodating two-way traffic; or
 - 2. With a minimum of 15-foot width when accommodating one-way traffic. Horizontal clearance shall be two and one-half feet wide on either side of the driveway.
 - 3. Minimum vertical clearance of 13 feet, six inches.
 - 4. Appropriate turnaround facilities per Fire Chief's standards for emergency vehicles when the drive is over 150 feet long. Fire Department turnaround areas shall not exceed seven percent grade unless waived by the Fire Chief.
 - 5. The grade shall not exceed 10 percent on average, with a maximum of 15 percent.
 - 6. A minimum centerline turning radius of 45 feet for the curve.

Response:

This application does not include access to multifamily dwellings. These criteria are not applicable.

F. Where on-site maneuvering and/or access drives are necessary to accommodate required parking, in no case shall said maneuvering and/or access drives be less than that required in Chapters 46 and 48 CDC.

Response:

On-site maneuvering or access drives are not necessary to accommodate the required parking on either lot. This criterion is not applicable.

G. The number of driveways or curb cuts shall be minimized on arterials or collectors. Consolidation or joint use of existing driveways shall be required when feasible.

Response: This application does not include access onto arterial or collector streets. This criterion is not applicable.

H. In order to facilitate through traffic and improve neighborhood connections, it may be necessary to construct a public street through a multi-family site.

Response: This application does not include multifamily development. This criterion is not applicable.

I. Gated accessways to residential development other than a single-family home are prohibited.

Response: This application includes access only to a single-family home. This criterion is not applicable.

CHAPTER 85—GENERAL PROVISIONS

54.020 PROPERTY LINE ADJUSTMENTS—APPROVAL STANDARDS

- A. The Director shall approve or deny a request for a property line adjustment based on the criteria stated below:
 - 1. An additional lot or parcel shall not be created by the property line adjustment.

Response: The planned PLA does not create an additional lot or parcel. This criterion is met.

2. The existing property shall not be reduced in size by the adjustments below the minimum lot or parcel size established by the approved zoning for that district. The property line adjustment shall not enlarge, increase, or extend the non-conformity of a non-conforming lot or non-conforming structure.

Response: Both properties remain in compliance with the minimum lot size and dimension requirements. This criterion is met.

- 3. Property line adjustments shall be either:
 - a. A straight line
 - b. A line with maximum of two 45- to 90-degree turns; or
 - c. A maximum of three turns less than 45 degrees

Response: This PLA maintains a straight property line between the two lots planned for adjustment. This criterion is met.

4. The property line adjustment shall not create a lot or parcel that violates applicable site development regulations.

Response: As addressed previously in this narrative, all applicable site development standards will be met by both affected properties. This criterion is met.

5. The property line adjustment will not adversely affect existing easements or existing utilities unless an easement vacation is obtained, replacement easements are established, or any required utility relocations are paid for by the applicant.

Response: The property line adjustment will not result in any adverse effects to existing easements or utilities. This criterion is met.

[...]

B. The provisions of CDC 85.070 shall also apply to property line adjustments.

Response:

As addressed in the June 2022 pre-application conference, sections B(1) and B(2) of CDC 85.070 do not apply to property line adjustments, and the provisions of B(3) are applicable at the time of final plat approval. The provisions of 85.070(A) are met, and ownership information is provided with this application package as Exhibit C in conformance with that section. This criterion is met.

IV. Conclusion

The required findings have been made, and this written narrative and accompanying documentation demonstrate that the application is consistent with the applicable provisions of the City of West Linn Community Development Code. The evidence in the record is substantial and supports approval of the application. Therefore, the Applicant respectfully requests that the City approve this property line adjustment application.



Exhibit A: City Application Form



Exhibit B: Preliminary Plans



Exhibit C: Title Documents



Exhibit D: Pre-Application Conference Summary



Exhibit E: Tree Removal Application and Photos



Exhibit F: Preliminary Stormwater Report



Planning & Development • 22500 Salamo Rd #1000 • West Linn, Oregon 97068 Telephone 503.656-3535 • westlinnoregon.gov

DEVELOPMENT REVIEW APPLICATION

		For Office Use Only			
STAFF CONTACT		PROJECT No(s).			PRE-APPLICATION NO.
Non-Refundable f	FEE(S)	REFUNDABLE DEPOSIT(S)		TOTAL	
Type of Review	(Please check all that apply):				
Annexation (AN Appeal and Rev Code Interpreta Conditional Use Design Review Tree Easement Final Plat or Pla Flood Managen Pre-Application, Ho	view (AP)	oric Review slative Plan or Change ine Adjustment (LLA) or Partition (MIP) (Preliminary Plat or Platication of Approval Conforming Lots, Uses & Structures ned Unit Development (PUD) of Vacation Addressing, and Sign applications re	an)	Water Resource Willamette & T Zone Change	es Area Protection/Single Lot (WAI Area Protection/Wetland (WAP ualatin River Greenway (WRG)
Site Location/Ad	ldress:		Assess	or's Map N	D.: 31E03AA
1686 19th Stre	et and adjacent vacant	parcel	Tax Lo	t(s): 1600 and	1700
			Total L	and Area: ±	22,250 Square Feet
Brief Description Property Line	•	x Lot 1600 and Tax Lot 1700)		
Applicant Name: (please print) Address: City State Zip:	Michael Trusheim 9400 SE Clackamas Road Clackamas OR, 97015			none: Conta mail:	ct Applicant's Consultant
Owner Name (red (please print) Address:	^{quired):} Same as Applicar	nt		none: nail:	
City State Zip:					
Address:	e: Daisy Goebel, AKS En 3700 River Road N, Suit Keizer, OR 97303	ngineering and Forestry e 1		., .) 400-6028 eld@aks-eng.com
 The owner/ap A decision mathematical Advantage of the Advantage o	refees are non-refundable (plicant or their representary be reversed on appeal. The rm and supporting docume noregon.gov/planning/submit property owner(s) hereby authorously with all code requiremental. All amendments to the Commenforced where applicable. Application.	rizes the filing of this application, an ts applicable to my application. Acce nunity Development Code and to other or over applications and subsequent	blic hea ctive unti e Applica d authori ptance on her regula developn	rings. il the appeal pation web page zes on site reverthis applications adopted nent is not ves	period has expired. e: riew by authorized staff. I on does not infer a dafter the application is sted under the provisions in
Applicant's signatu	ire	Date Owner's sign	ature (<i>re</i>	equired)	Date

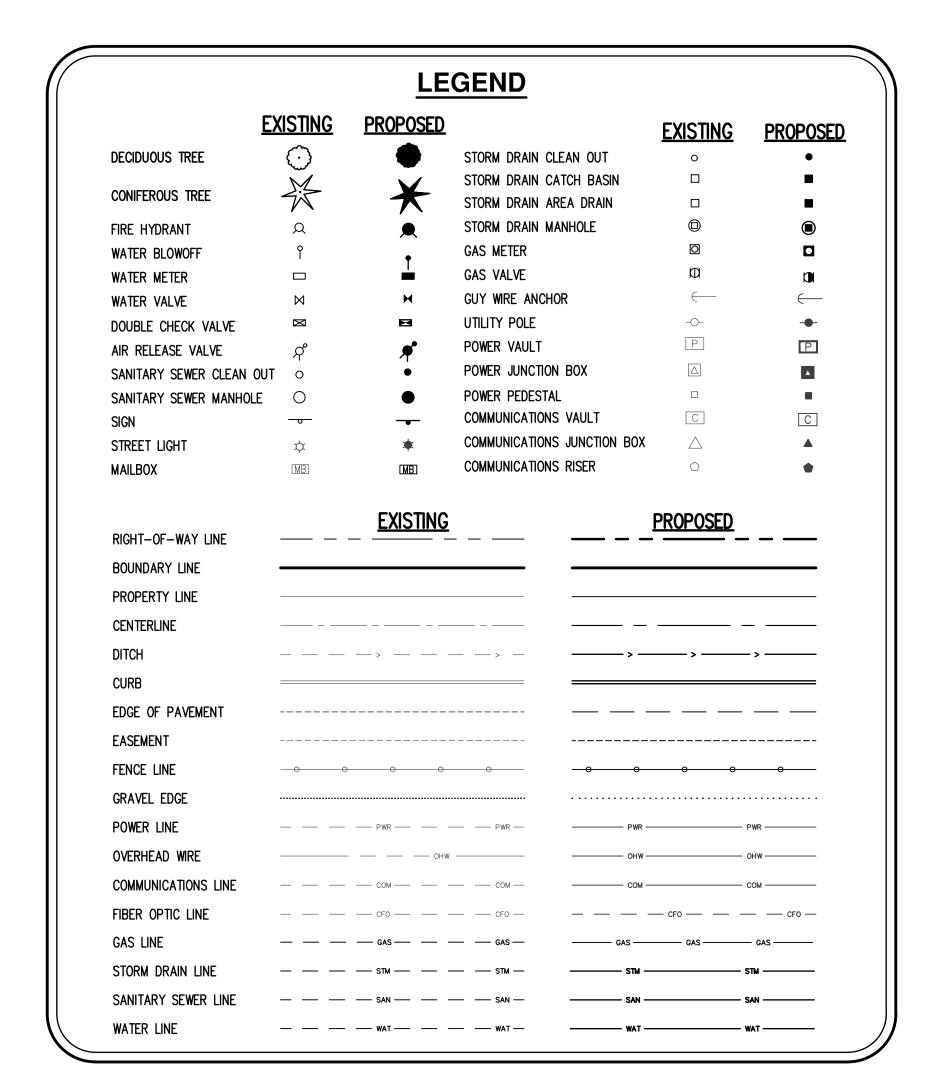
LEGEND

PRELIMINARY PLANS



VICINITY MAP

NOT TO SCALE



TAX LOT 1900 **TAX LOT 1902** TAX LOT 501 TAX MAP 3 1E 03AA TAX MAP 3 1E 03AA TAX MAP 3 1E 03AA TAX LOT 2002 TAX MAP 3 1E 03AA TAX LOT 1800 TAX MAP 3 1E 03AA STREET TAX LOT 2003 TAX LOT 509 TAX MAP 3 1E 03AA TAX MAP 3 1E 03AA 9ТН TAX LOT 1600 TAX LOT 1700 TAX MAP 3 1E 03AA TAX MAP 3 1E 03AA TAX LOT 2001 TAX MAP 3 1E 03AA TAX LOT 708 TAX MAP 3 1E 03AA TAX LOT 2004 TAX MAP 3 1E 03AA TAX LOT 1400 TAX MAP 3 1E 03AA TAX LOT 1500 TAX MAP 3 1E 03AA TAX LOT 709 TAX MAP 3 1E 03AA SITE MAP SCALE: 1" = 50'

APPLICANT:

MIKE TRUSHEIM 9400 SE CLACKAMAS ROAD CLACKAMAS, OR 97015

PLANNING/CIVIL ENGINEERING/ SURVEYING/ARBORISTS (APPLICANT'S **CONSULTANT**):

AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN ROAD, SUITE 100 TUALATIN, OR 97062 CONTACT: JONATHON MORSE PHONE: (503) 563-6151 FAX: (503) 563-6152

SITE LOCATION AND ZONING:

1686 19TH STREET, WEST LINN, OREGON CLACKAMAS COUNTY ASSESSOR'S MAP 3 1E 03AA TAX LOTS 1600 & 1700 WEST LINN, OR 97068 ZONING: R10

SITE DESCRIPTION:

TAX LOTS 1600 AND 1700, CLACKAMAS COUNTY ASSESSOR'S MAP 3 1E 03AA. LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 3 SOUTH, RANGE 1 EAST, WILLAMETTE MERIDIAN, CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON.

PROJECT PURPOSE:

PROPERTY LINE ADJUSTMENT AND SITE DEVELOPMENT

BENCHMARK:

VERTICAL DATUM: ELEVATIONS WERE DERIVED FROM THE TRIMBLE NOW VRS NETWORK (NAVD 88).

SHEET INDEX

- PO2 EXISTING CONDTIONS
- PO3 PRELIMINARY PLA PLAN WITH BUILDING SETBACKS
- PO9 PRELIMINARY AERIAL PHOTOGRAPH PLAN

- PO6 PRELIMINARY GRADING PLAN
- PO7 PRELIMINARY COMPOSITE UTILITY & SITE PLAN
- PO8 PRELIMINARY PRIVATE DRIVEWAY PLAN & PROFILE

CHECKED BY:

NOTES:

1. UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBER 22061703. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

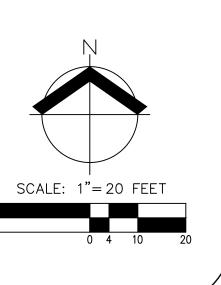
- 2. FIELD WORK WAS CONDUCTED MARCH 3, 4, AND 10, 2022.
- 3. VERTICAL DATUM: ELEVATIONS WERE DERIVED FROM THE TRIMBLE VRS NOW NETWORK (NAVD 88).
- 4. HORIZONTAL DATUM: A LOCAL DATUM PLANE DERIVED FROM STATE PLANE OREGON NORTH 3601, INTERNATIONAL FOOT, NAD83(2011)EPOCH: 2010.0000, BY MULTIPLYING BY A PROJECT MEAN COMBINED GROUND SCALE FACTOR OF 1.0001076429 AT A CENTRAL PROJECT POINT WITH STATE PLANE GRID COORDINATES OF N: 619091.174 E: 7645911.381 WITH A MERIDIAN CONVERGENCE ANGLE OF -1*32'03". STATE PLANE COORDINATES WERE DERIVED FROM THE TRIMBLE VRS NOW NETWORK.
- 5. THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
- 6. BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
- 7. CONTOUR INTERVAL IS 1 FOOT.
- 8. TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.

-	TREE TABLE	
TREE NUMBER	TYPE	DBH (IN.)
10040	DECIDUOUS	12
10041	DECIDUOUS	18
10104	DECIDUOUS	6,6,10
10156	DECIDUOUS	6,6,6,7
10376	DECIDUOUS	20
10404	CONIFEROUS	40
10418	CONIFEROUS	33
10498	CONIFEROUS	36
10664	DECIDUOUS	6
10665	DECIDUOUS	6
10666	CONIFEROUS	26
10667	CONIFEROUS	26
10676	DECIDUOUS	6
10908	DECIDUOUS	7,8

<u>L</u>	E	<u>G</u>	E	N

<u>EX</u>	<u>isting</u>		EXISTING
DECIDUOUS TREE	\odot	STORM DRAIN DOWNSPOUT	\otimes
	$\stackrel{\bullet}{\bowtie}$	STORM DRAIN CATCH BASIN	
CONIFEROUS TREE	7	STORM DRAIN AREA DRAIN	
FIRE HYDRANT	Q	STORM DRAIN MANHOLE	
WATER METER		GAS METER	O
WATER VALVE	\bowtie	GAS VALVE	M
SANITARY SEWER CLEAN OUT	0	GUY WIRE ANCHOR	\leftarrow
SANITARY SEWER MANHOLE	0	UTILITY POLE	-0-
SIGN		POWER JUNCTION BOX	
STREET LIGHT	\$	COMMUNICATIONS JUNCTION BOX	\triangle
MAILBOX	[MB]	COMMUNICATIONS RISER	\bigcirc

	EXISTING
RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	- 0 0 0 0 0
GRAVEL EDGE	
POWER LINE	— — PWR — — PWR —
OVERHEAD WIRE	— — OHW — — OHW —
COMMUNICATIONS LINE	com com
FIBER OPTIC LINE	CFO CFO
GAS LINE	— — GAS — — GAS —
STORM DRAIN LINE	— — — STM — — — STM —
SANITARY SEWER LINE	— — — SAN — — — SAN —
WATER LINE	WAT WAT



EXISTING CONDTIONS

1686 19TH STREET

PROPERTY LINE ADJUSTMENT

WEST LINN, OREGON

P02

DESIGNED BY:

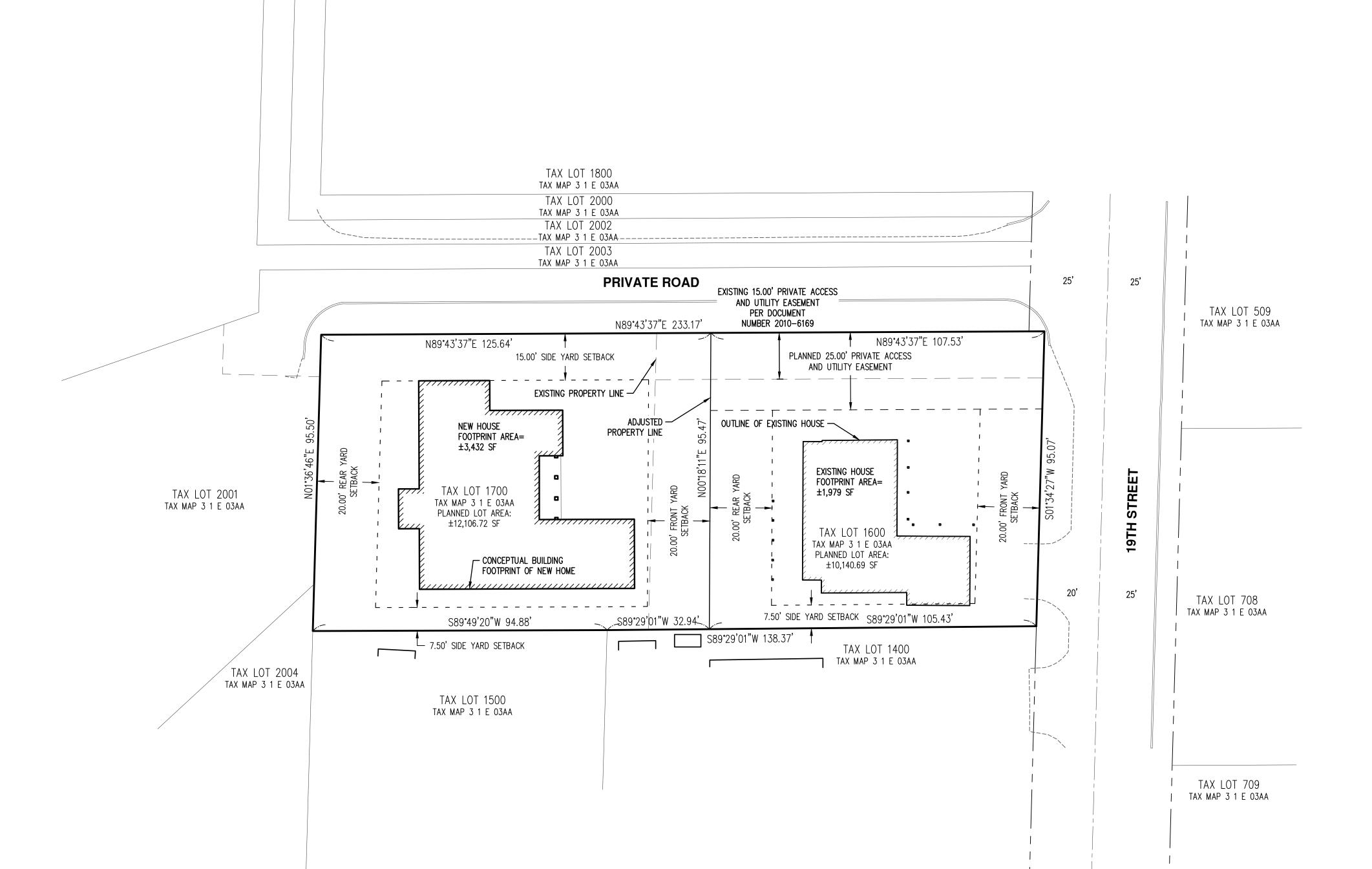
DRAWN BY:

3/17/2022

CP/MSD







AREA SUMMARY: *TAX LOT 1600

EXISTING AREA: ±11,913.27 SF PLANNED AREA: ±10,140.69 SF

TAX LOT 1700 EXISTING AREA: ±10,334.14 SF PLANNED AREA: ±12,106.72 SF

TRANSFER AREA: ±1,772.58 SF

PLANNED 25.00' ACCESS AND UTILITY EASEMENT AREA: ±2,681.31 SF

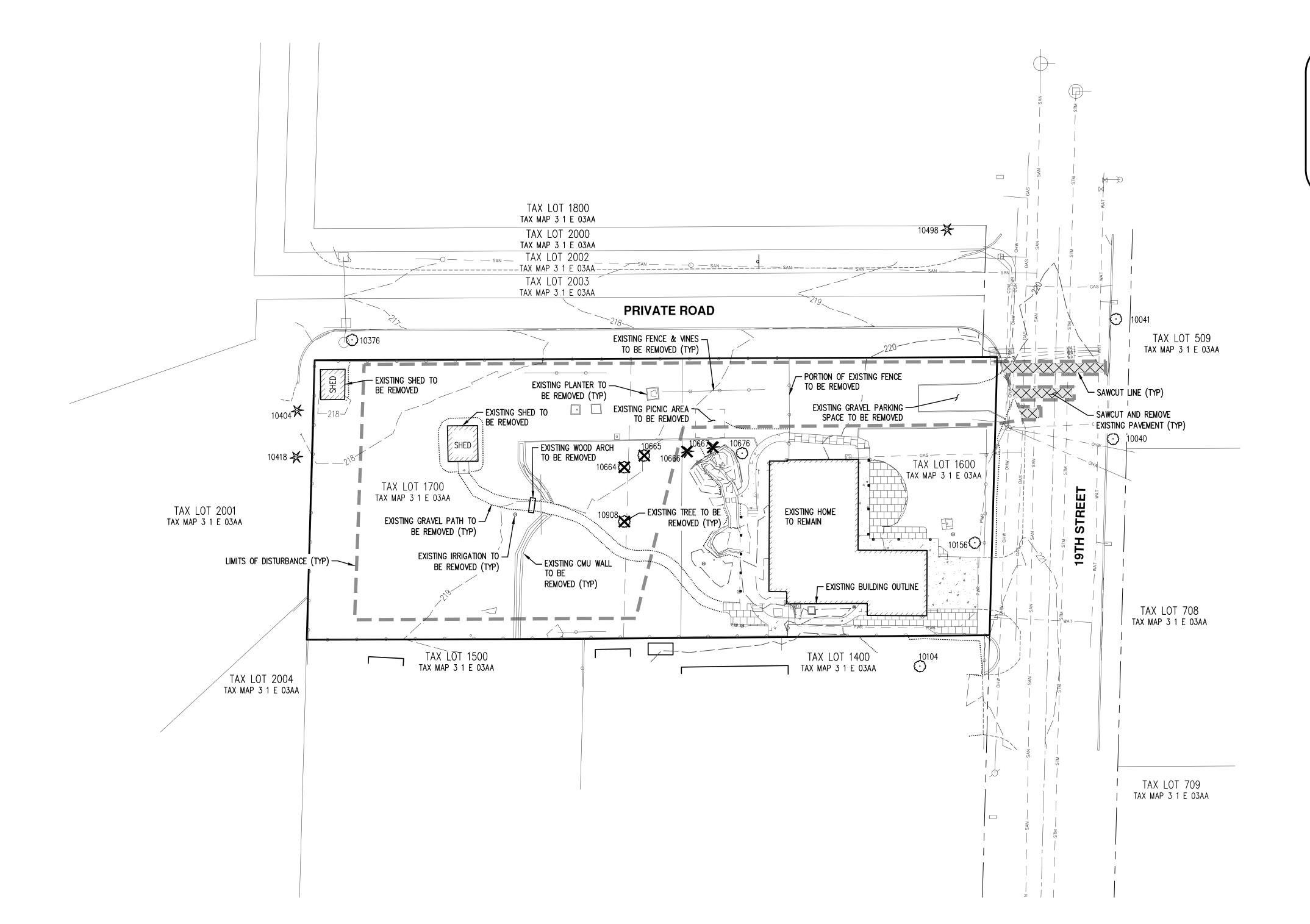
*EXISTING AND PLANNED AREA INCLUDES ACCESS AND UTILITY EASEMENT AREA

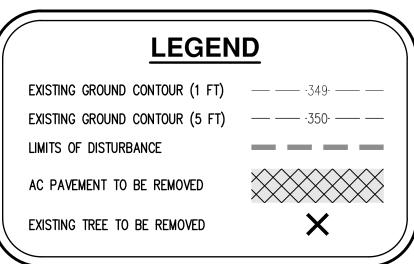
NOTES:

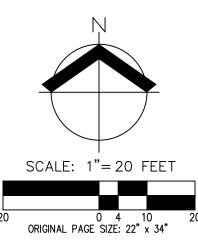
1. DISTANCE FROM ROW TO FARTHEST POINT OF HOUSE = ±206.78 FT.

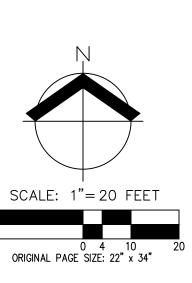
DESIGNED BY:

10/24/2022









ON PL/

DEMOLITI

PRELIMINA

GRAVEL CONSTRUCTION ENTRANCE -

TAX LOT 1600 TAX MAP 3 1 E 03AA

 \odot

INSTALL TREE PROTECTION FENCE 8' FROM TREE

TAX LOT 1400 TAX MAP 3 1 E 03AA

- CONSTRUCTION STAGING AREA

INSTALL CATCH BASIN INLET PROTECTION (TYP)

TAX LOT 1700

TAX MAP 3 1 E 03AA

TAX LOT 1500 TAX MAP 3 1 E 03AA

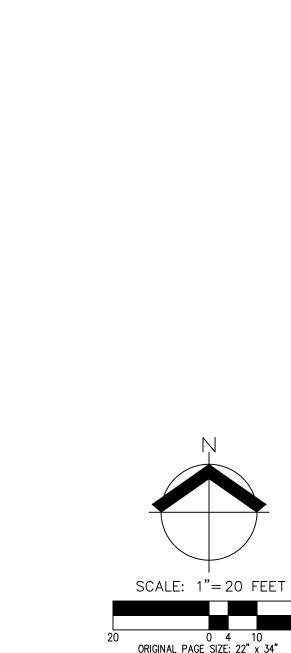
TAX LOT 2001 TAX MAP 3 1 E 03AA

LIMITS OF DISTURBANCE (TYP)

SEDIMENT FENCE (TYP) —

TAX LOT 2004 TAX MAP 3 1 E 03AA

CONCEPTUAL BUILDING TOOTPRINT



TAX MAP 3 1 E 03AA

TAX LOT 708 TAX MAP 3 1 E 03AA

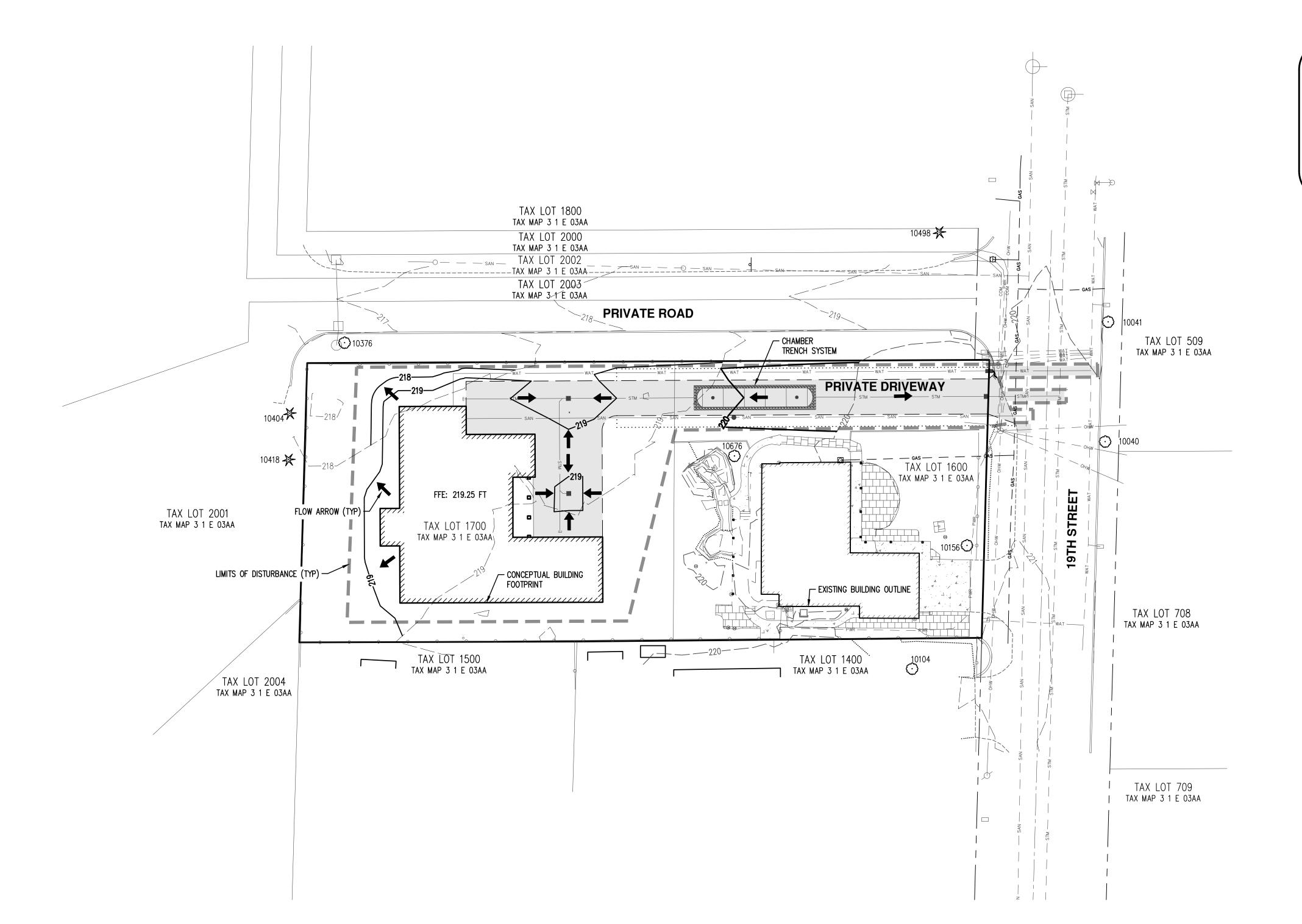
TAX LOT 709 TAX MAP 3 1 E 03AA

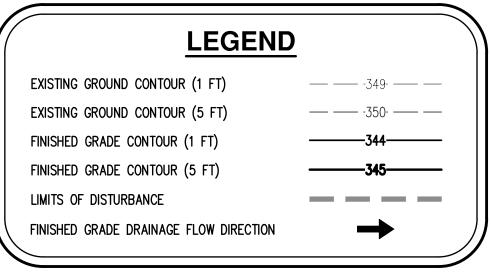


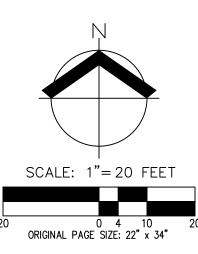
PLAN CTION MANAGEMENT PRELIMINARY CONSTRUC 1686 19TH STREET PROPERTY LINE ADJUSTI WEST LINN, OREGON

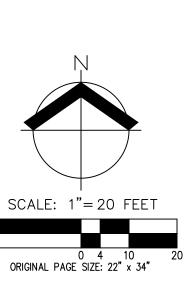
P05

DESIGNED BY:









PLAN

DESIGNED BY:

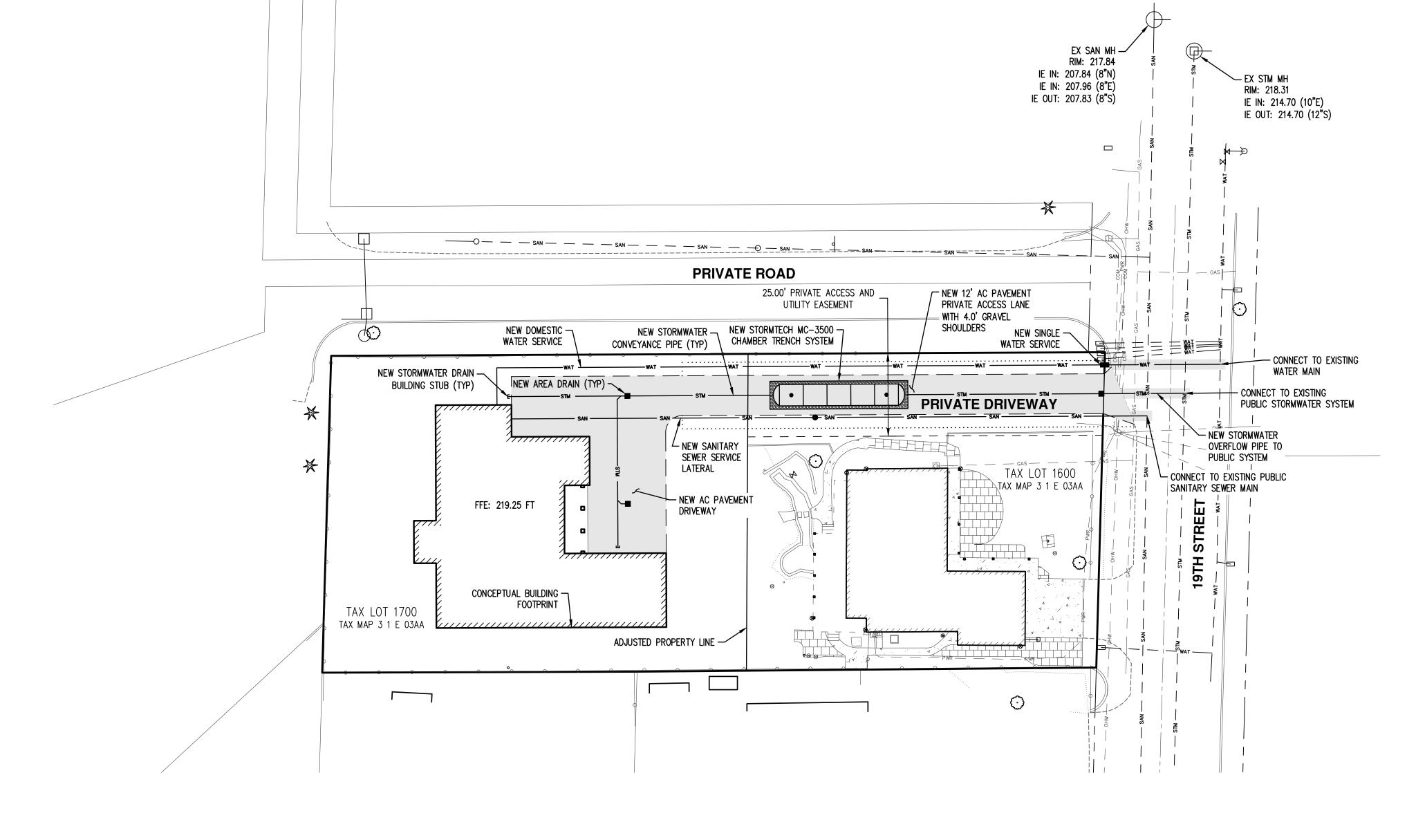
PLAN

SITE

8

UTILITY

S



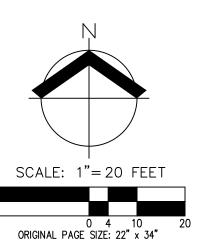
-25' ACCESS AND UTILITY EASEMENT-_4.0' GRAVEL 4.0' GRAVEL -12.0' PAVED ACCESS LANE-SHOULDER SHOULDER <u>±1.5%</u> ±1.5% ±2% 2:1 MAX

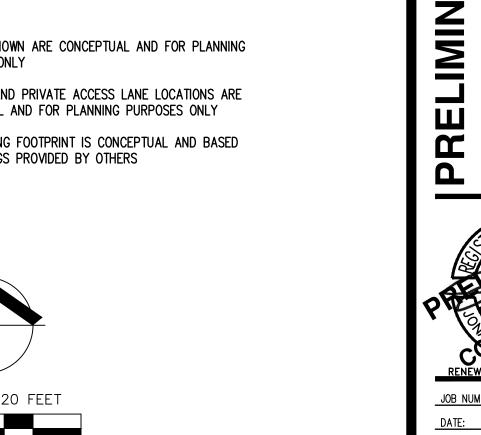
> PRIVATE DRIVEWAY TYPICAL SECTION STA. 10+24.35 - STA. 11+51.42 NOT TO SCALE

NOTE:

1. UTILITIES SHOWN ARE CONCEPTUAL AND FOR PLANNING PURPOSES ONLY

- 2. DRIVEWAY AND PRIVATE ACCESS LANE LOCATIONS ARE CONCEPTUAL AND FOR PLANNING PURPOSES ONLY
- 3. NEW BUILDING FOOTPRINT IS CONCEPTUAL AND BASED ON DRAWINGS PROVIDED BY OTHERS





DESIGNED BY:

11+00

10+50

10+00

12+05 12+00

PRIVATE DRIVEWAY
HORZ. SCALE: 1"= 10'
VERT. SCALE: 1"= 2'

11+50



SCALE: 1"=10 FEET

PRELIMINARY PRIVATE DRIVEWAY PLAN & PROFILE 1686 19TH STREET PROPERTY LINE ADJUSTMENT WEST LINN, OREGON

Y: BY: DAQ

10/24/2022

P08





| NEWAL DATE: 12/31/2022 |
| NUMBER: 9269 |
| E: 10/24/2022 |
| GNED BY: JDS |
| WN BY: JDS |
| CKED BY: JMM

P09

Property Profile Report

1686 19TH ST WEST LINN, OR 97068-4430

Ownership Information

Owner Name: MICHAEL J TRUSHEIM

DEBRA L TRUSHEIM

Mailing Address: 22607 SW ULSKY RD WEST LINN, OR 97068-9133

Property Description

County: Clackamas Map / Tax Lot: 31E03AA/01600

Account Num: 00752000 Owner Occ.: No Land Use: Single Family Residential Census: 0207.00

Subdivision: WILLAMETTE FALLS ACREAGE TRACTS

Legal Description: 138 WILLAMETTE FALLS AC TR PT LT 2 BLK F

Property Characteristics

Property Type: SINGLE FAMILY Building SF: 1,716 Heat: FORCED AIR UNIT

House Style: 1 STORY Living Area SF: 1,716 Cooling:

Year Built:1946Square Feet:1,716Foundation:ConcreteBedrooms:41st Floor SF:1,716Exterior:OTHER

Bathrooms: 2.00 2nd Floor SF:

Lot Size: 0 3rd Floor SF: Roof Cover: WOOD SHAKE/ SHINGLES

Roof Style:

Acres: 0 Attic SF: Fireplaces: Y
Garage Type: GARAGE Bsmnt SF: Bsmnt Type:

Garage SF: Fin Bsmt SF:

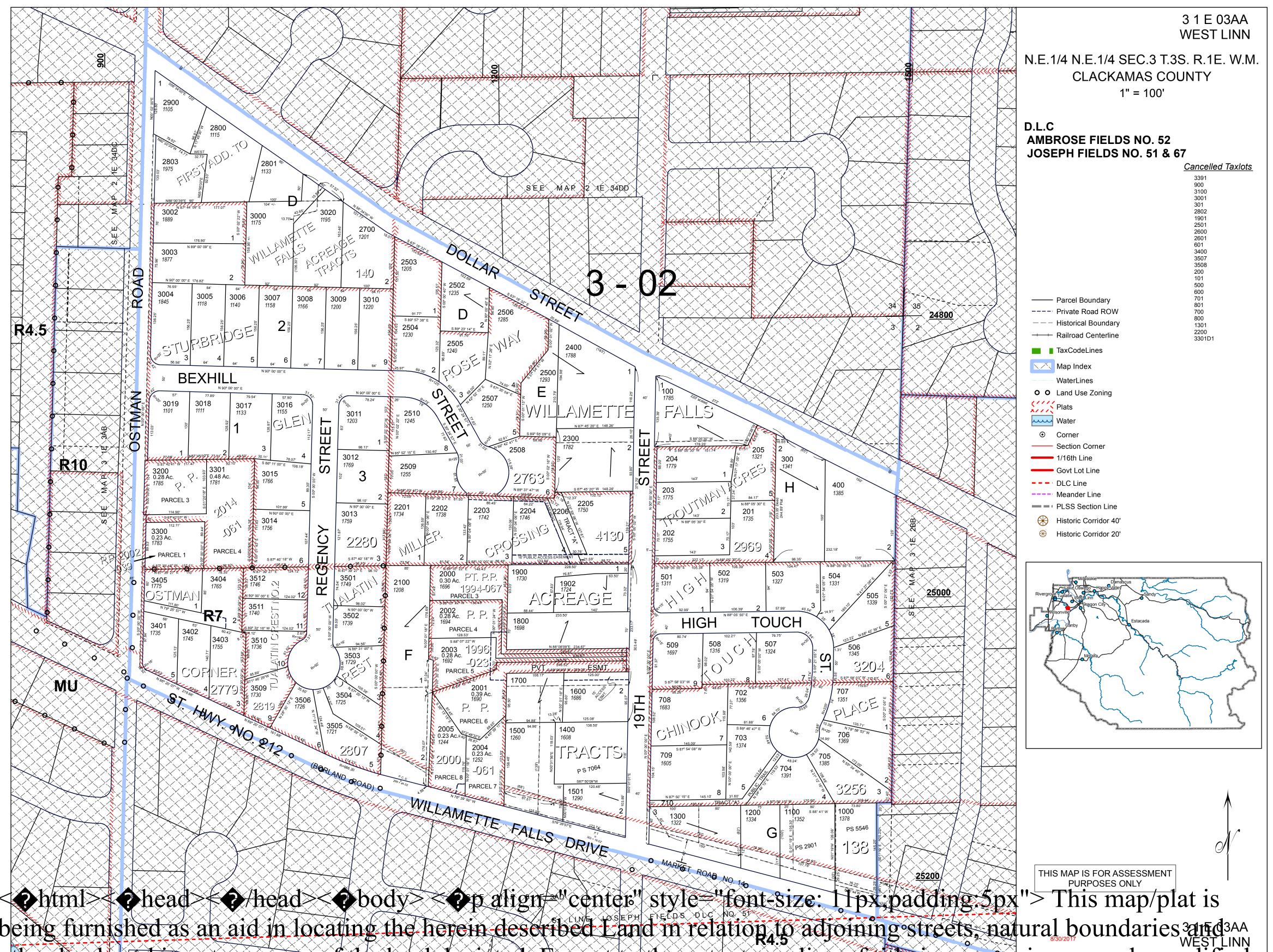
Assessment Information

Real Market Value: \$ 434,025 Land Value: \$ 187,375 Imp. Value: \$ 246,650 Total Assessed Value: \$ 234,978 Levy Code: 003-002 M-5 Rate: 19.3989 Taxes: \$ 4,558.32 Tax Year: 2020 Assessed Year: 2020

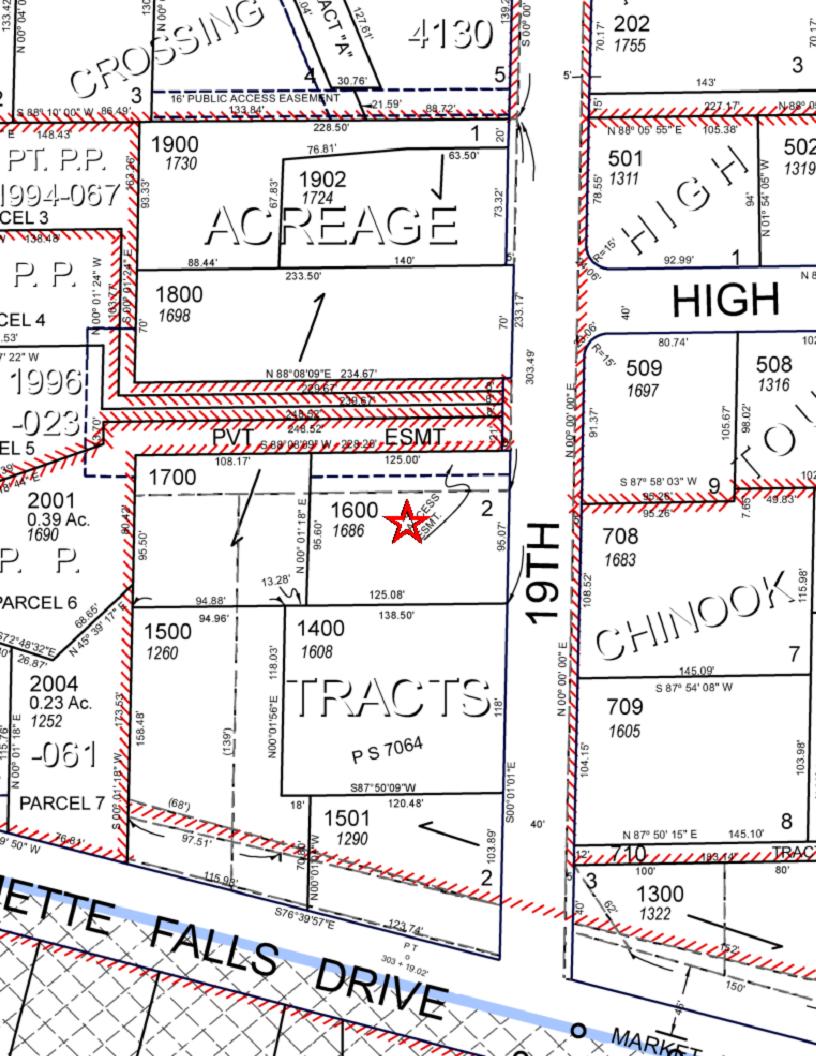
Previous Sale Information

Sale Amount: \$ 355,770 Sale Date: 05/26/2010 Document Num: 2010-032067

٦	ransaction H	istory				
			HPI	Document	Reception	
	Sale Date	Sale Amount	Sale Amount	Туре	Num	Book/Page
	2/17/2017	\$ 0		It	2017-013089	/
	5/26/2010	\$ 355,770	\$ 719,500	Wd	2010-032067	/



being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and depicted. Except to the extent a policy of title insurance is expressly modified





150 Beavercreek Rd Oregon City, OR 97045 503-655-8671

Property Account Summary

1/6/2022

Account Number	00752000	Property Address	1686 19TH ST , WEST LINN, OR 97068
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uenera		OHILLA	
		U	

Alternate Property #	31E03AA01600	
Property Description	138 WILLAMETTE FALLS AC TR PT LT 2 BLK F	
Last Sale Price	\$0.00	
Last Sale Date	03/01/2017	
Last Sale Excise Number	312195	
Property Category	Land &/or Buildings	
Status	Active, Locally Assessed	
Tax Code Area	003-002	
Remarks		

Property Characteristics

Neighborhood	15851: Willamette newer 100, 101
Land Class Category 101: Residential land improved	
Building Class Category	14: Single family res, class 4
Year Built	1946
Acreage	0.00
Change property ratio	1XX

Property Details

		Manf Struct Size	Year Built	Improvement Grade	Stories	Bedrooms	Full Baths	Half Baths
l	1716	0 X 0	1946	45	1.0	4	2	0

Parties

Role	Percent	Name	Address
Townsyen	100	TRUSHEIM MICHAEL J	22607 SW ULSKY RD, WEST LINN, OR
Taxpayer	100	TRUSTEE	97068
Overvior and	100	TRUSHEIM MICHAEL J	22607 SW ULSKY RD, WEST LINN, OR
Owner		TRUSTEE	97068
Overvior and	100	TRUSHEIM DEBRA L	22607 SW ULSKY RD, WEST LINN, OR
wner	100	TRUSTEE	97068

Property Values

Value Type	Tax Year 2021				
AVR Total	\$242,027	\$234,978	\$228,134	\$221,489	\$215,038
Exempt					

•					
TVR Total	\$242,027	\$234,978	\$228,134	\$221,489	\$215,038
Real Mkt Land	\$198,317	\$187,375	\$178,485	\$165,492	\$150,447
Real Mkt Bldg	\$257,810	\$246,650	\$234,790	\$218,080	\$202,420
Real Mkt Total	\$456,127	\$434,025	\$413,275	\$383,572	\$352,867
M5 Mkt Land	\$198,317	\$187,375	\$178,485	\$165,492	\$150,447
M5 Mkt Bldg	\$257,810	\$246,650	\$234,790	\$218,080	\$202,420
M5 SAV					
SAVL (MAV Use Portion)					
MAV (Market Portion)	\$242,027	\$234,978	\$228,134	\$221,489	\$215,038
Mkt Exception					
AV Exception					

Tax Rate

Description	Rate
Total Rate	18.7068

Tax Balance

No Charges are currently due. If you believe this is incorrect, please contact the Assessor's Office.

Parents

	Parcel No.	Seg/Merge No.	Status	From Date	To Date	Continued	Document Number
No Parents Found							

Children

Parcel No.	Seg/Merge No.	Status	From Date	To Date	Document Number
No Children Found					

Related Properties

No Related Properties Found

Active Exemptions

No Exemptions Found

Events

Effective Date	Entry Date-Time	Туре	Remarks
02/27/2017	03/01/2017 15:07:00	Taxpayer Changed	Property Transfer Filing No.: 312195 02/27/2017 by CINDYSIM
02/27/2017	03/01/2017 15:07:00	Recording Processed	Property Transfer Filing No.: 312195, Special Warranty Deed, Recording No.: 2017-013089 02/27/2017 by CINDYSIM
05/27/2010	06/02/2010 08:19:00	Taxpayer Changed	Property Transfer Filing No.: 203448 05/27/2010 by CINDYSIM
05/27/2010	06/02/2010 08:19:00	Recording Processed	Property Transfer Filing No.: 203448, Warranty Deed, Recording No.: 2010-032067 05/27/2010 by CINDYSIM
02/11/2010	02/11/2010 10:55:00	Seg/Merge Initiated	SM100216 EFFECTIVE 2010-2011: PT FROM 31E03AA01700 BY 2010-006169; AFTER 01/01/2010 by LAURIEB
02/11/2010	02/11/2010 10:55:00	Seg/Merge Completed	Parent in Seg/Merge SM100216, Effective: 01/02/2009 by LAURIEB
08/17/2006	08/22/2006 09:33:00	Taxpayer Changed	Property Transfer Filing No.: 146594 08/17/2006 by CINDYSIM
08/17/2006	08/22/2006 09:33:00	Recording Processed	Property Transfer Filing No.: 146594, Letter, Recording No.: 00752000-08-17-2006 08/17/2006 by CINDYSIM

04/05/2004		Annexation Completed For Property	Annex to TVFR, Ord 03-13 for 2004-Revise TCA Membership by JENMAYO
07/01/1999	07/01/1999 12:00:00	Ownership at Conversion	Conversion deed: 508-598 , , \$ 0

Receipts

Date	Receipt No.	Amount Applied	Amount Due	Tendered	Change
11/02/2021 00:00:00	<u>5030425</u>	\$4,527.55	\$4,527.55	\$4,391.72	\$0.00
11/02/2020 00:00:00	4833254	\$4,558.32	\$4,558.32	\$4,421.57	\$0.00
10/30/2019 00:00:00	<u>4636608</u>	\$4,346.91	\$4,346.91	\$4,216.50	\$0.00
11/13/2018 00:00:00	<u>4489607</u>	\$4,152.74	\$4,152.74	\$4,028.16	\$0.00
11/06/2017 00:00:00	<u>4262523</u>	\$3,991.66	\$3,991.66	\$3,871.91	\$0.00

Sales History

Sale Date	Entry Date	_	Recording Number	Sale Amount	Excise Number	Deed Type	Transfer Type	Grantor(Seller)	Grantee(Kilver)	Other Parcels
02/17/2017	03/01/2017	02/27/2017	2017-013089	\$0.00	312195		M	TRUSHEIM DEBRA	TRUSHEIM MICHAEL J TRUSTEE	No
05/26/2010	06/02/2010	05/27/2010	2010-032067	\$355,770.00	203448		M		TRUSHEIM MICHAEL	No
08/17/2006	08/22/2006	08/17/2006	00752000-08-17-	\$0.00	146594		M	IGEORGE W &	PERDUE GEORGE W	No

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150 Beavercreek Rd Oregon City, OR 97045 503-655-8671

Detailed Statement

Parcel Number 00752000 Property Address 1686 19TH ST, WEST LINN, OR 97068

Click on the Recalculate button in order to change the interest date then click calculate for the results.

As Of Date:

1/6/2022

Recalculate

	Category	TCA/District	Charged	Minimum	Balance Due	
1993	Property Tax Principal	003-002	\$1,667.57	\$0.00	\$0.00	11/15/1993
1994	Property Tax Principal	003-002	\$1,613.62	\$0.00	\$0.00	11/15/1994
1995	Property Tax Principal	003-002	\$1,395.43	\$0.00	\$0.00	11/15/1995
1996	Property Tax Principal	003-002	\$1,537.07	\$0.00	\$0.00	11/15/1996
1997	Property Tax Principal	003-002	\$1,533.18	\$0.00	\$0.00	11/15/1997
1998	Property Tax Principal	003-002	\$1,715.56	\$0.00	\$0.00	11/15/1998
1999	Property Tax Principal	003-002	\$1,610.63	\$0.00	\$0.00	11/15/1999
2000	Property Tax Principal	003-002	\$1,831.86	\$0.00	\$0.00	11/15/2000
2001	Property Tax Principal	003-002	\$1,840.68	\$0.00	\$0.00	11/15/2001
2002	Property Tax Principal	003-002	\$1,942.62	\$0.00	\$0.00	11/15/2002
2003	Property Tax Principal	003-002	\$1,984.98	\$0.00	\$0.00	11/15/2003
2004	Property Tax Principal	003-002	\$2,149.85	\$0.00	\$0.00	11/15/2004
2005	Property Tax Principal	003-002	\$2,237.38	\$0.00	\$0.00	11/15/2005
2006	Property Tax Principal	003-002	\$2,330.14	\$0.00	\$0.00	11/15/2006
2007	Property Tax Principal	003-002	\$2,343.79	\$0.00	\$0.00	11/15/2007
2008	Property Tax Principal	003-002	\$2,391.59	\$0.00	\$0.00	11/15/2008
2009	Property Tax Principal	003-002	\$2,552.16	\$0.00	\$0.00	11/15/2009
2010	Property Tax Principal	003-002	\$2,633.75	\$0.00	\$0.00	11/15/2010
2011	Property Tax Principal	003-002	\$2,624.16	\$0.00	\$0.00	11/15/2011
2012	Property Tax Principal	003-002	\$3,286.46	\$0.00	\$0.00	11/15/2012
2013	Property Tax Principal	003-002	\$3,337.81	\$0.00	\$0.00	11/15/2013
2014	Property Tax Principal	003-002	\$3,556.08	\$0.00	\$0.00	11/15/2014
2015	Property Tax Principal	003-002	\$3,723.27	\$0.00	\$0.00	11/15/2015
2016	Property Tax Principal	003-002	\$3,888.52	\$0.00	\$0.00	11/15/2016
2017	Property Tax Principal	003-002	\$3,991.66	\$0.00	\$0.00	11/15/2017
2018	Property Tax Principal	003-002	\$4,152.74	\$0.00	\$0.00	11/15/2018
2019	Property Tax Principal	003-002	\$4,346.91	\$0.00	\$0.00	11/15/2019
2020	Property Tax Principal	003-002	\$4,558.32	\$0.00	\$0.00	11/15/2020
2021	Property Tax Principal	003-002	\$4,527.55	\$0.00	\$0.00	11/15/2021
TOTAL Due as of					\$0.00	
01/06/2022					Ψ3.00	

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Michael Trusheim and Debra Trusheim 22607 SW Ulsky West Linn, OR 97068 "GRANTOR" Clackamas County Official Records Sherry Hall, County Clerk

2017-013089



\$63.00

02/27/2017 11:18:12 AM

D-D Cnt=1 Stn=6 KARLYN \$15.00 \$16.00 \$22.00 \$10.00

Michael J. Trusheim and Debra L. Trusheim, Trustees of the Michael J. Trusheim and Debra L. Trusheim Revocable Trust u/a/d 2/17/17 22607 SW Ulsky West Linn, OR 97068 "GRANTEE"

RECORDATION REQUESTED BY AND AFTER RECORDATION MAIL TO:

Elizabeth A. Munns Abbott & Munns, LLC 4891 Willamette Falls Dr., Suite 1 West Linn, OR 97068

MAIL TAX STATEMENTS TO: Michael J. and Debra L. Trusheim, Trustees 22607 SW Ulsky West Linn, OR 97068

STATUTORY SPECIAL WARRANTY DEED

The Grantor, Michael Trusheim and Debra Trusheim, husband and wife conveys and specially warrants to Michael J. Trusheim and Debra L. Trusheim, Trustees or his/her successor Trustee of the Michael J. Trusheim and Debra L. Trusheim Revocable Trust u/a/d February 17, 2017 Grantee, the following described real property free of encumbrances created or suffered by the grantor except as specifically set forth herein in the County of Clackamas, State of Oregon, described as follows:

SEE ATTACHED EXHIBIT A.

More commonly known as: 1686 19th St., West Linn, OR 97068 **Subject to all encumbrances of record**.

To Have and to Hold the same unto Grantee and Grantee's heirs, successors and assigns forever.

The true and actual consideration for this conveyance is \$-0-. However, the actual consideration consists of or includes other property or value given or promised which is the whole consideration.

In construing this deed, where the context so requires, the singular includes the plural, and all grammatical changes shall be made so that this deed shall apply equally to corporations and individuals.

IN WITNESS WHEREOF, the Grantor has executed this instrument this 17 day of tehnuary, 2017.

GRANTOR:

Nebra L. Trushin Debra Trusheim

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930 AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

STATE OF OREGON

)ss.

COUNTY OF CLACKAMAS

This instrument was acknowledged before me on this 17th day of February, 2017 by Michael Trusheim and Debra Trusheim as his and her own free act and deed.

OFFICIAL STAMP **IZABETH ANNE MUNNS** NOTARY PUBLIC-OREGON COMMISSION NO. 946302 MY COMMISSION EXPIRES JANUARY 13, 2020 ary Public for Oregon

EXHIBIT A

LEGAL DESCRIPTION: Real property in the County of Clackamas, State of Oregon, described as follows:

PARCEL I:

A TRACT OF LAND IN THE NORTHEAST QUARTER OF SECTION 3, TOWNSHIP 3 SOUTH, RANGE 1 EAST, WILLAMETTE MERIDIAN, IN THE CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON, BEING A PORTION OF TRACT "F", WILLAMETTE FALLS ACREAGE TRACTS DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8 INCH DIAMETER IRON ROD AT THE SOUTHEAST CORNER OF THAT TRACT OF LAND DESCRIBED IN BOOK 508, PAGE 598, CLACKAMAS COUNTY DEED RECORDS TO PERDUE, ON THE EASTERLY RIGHT-OF-WAY LINE OF 19TH STREET 20 FEET AT RIGHT ANGLES FROM THE CENTER LINE THEREOF; THENCE, S87*53'33"W ALONG THE SOUTH LINE THEREOF A DISTANCE OF 125.08 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND HEREIN DESCRIBED; THENCE CONTINUING ALONG SAID SOUTH LINE ON SAID BEARING DISTANCE OF 13.28 FEET TO A 5/8 INCH DIAMETER IRON ROD IN SAID LINE AS SHOWN ON MAP PS 26820, CLACKAMAS COUNTY SURVEY RECORDS: THENCE, \$88°13'52"W CONTINUING ALONG SAID SOUTH LINE AND THE SOUTH LINE OF THAT TRACT OF LAND DESCRIBED IN BOOK 518, PAGE 615 CLACKAMAS COUNTY DEED RECORDS TO PERDUE, A DISTANCE OF 94.88 FEET TO A 5/8 INCH DIAMETER IRON ROD AT THE SOUTHWEST CORNER THEREOF; THENCE, N00°01'18"E ALONG THE WEST LINE THEREOF AND THE EAST BOUNDARY OF PARCEL 6 OF PARTITION PLAT NO. 2000-061 A DISTANCE OF 95.50 FEET TO AN ANGLE POINT IN THE BOUNDARY OF SAID PARCEL 6; THENCE, N88°08'09"E ALONG THE BOUNDARY OF SAID PARCEL 6 A DISTANCE OF 108.17 FEET; THENCE, S00°01'18"W PARALLEL WITH THE HEREIN DESCRIBED WEST BOUNDARY LINE A DISTANCE OF 95.60 FEET TO THE POINT OF BEGINNING.

PARCEL 2:

BEGINNING AT A 5/8 INCH DIAMETER IRON ROD AT THE SOUTHEAST CORNER OF THAT TRACT OF LAND DESCRIBED IN BOOK 508, PAGE 598, CLACKAMAS COUNTY DEED RECORDS TO PERDUE, ON THE EASTERLY RIGHT-OF-WAY LINE OF 19TH STREET 20 FEET AT RIGHT ANGLES FROM THE CENTER LINE THEREOF; THENCE, S87°53'33"W ALONG THE SOUTH LINE THEREOF A DISTANCE OF 125.08 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND DESCRIBED ABOVE; THENCE, NORTHERLY ALONG THE EAST LINE OF THE OF THE ABOVE DESCRIBED PROPERTY TO THE NORTHEAST CORNER THEREOF ON THE BOUNDARY OF PARCEL 6, PARTITION PLAT NO. 2000-061, THENCE, N88°08'09"E ALONG THE SAID BOUNDARY AND THE EASTERLY EXTENSION THEREOF A DISTANCE OF 125 FEET TO THE WEST RIGHT-OF-WAY LINE OF 19TH STREET, 20 FEET AT RIGHT ANGLES FROM THE CENTER LINE THEREOF; THENCE, S00°01'01"W ALONG SAID LINE A DISTANCE OF 95.06 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A PRIVATE NON-EXCLUSIVE EASEMENT FOR ACCESS AND UTILITIES OVER THE NORTH 15 FEET THEREOF FOR THE BENEFIT OF THE ADJOINING PROPERTY.

NOTE: This legal description was created prior to January 1, 2008.





Pre-app Comments

Project Number: PA-22-17 1686 19th Street

Engineering Contact:

Casey Thompson, EIT cthompson@westlinnoregon.gov Telephone: (503) 722-3435

Project Description: Property Line Adjustment Between Tax Lots 1600 and 1700

Pre-application meeting date: June 2, 2022

The comments provided below are based upon material provided as part of the pre-application packet and are intended to identify potential design challenges associated with the development. Comments are not intended to be exhaustive and do not preclude the engineering department from making additional comments as part of the formal land use application process.

TRANSPORTATION

Minimum Required Improvement:

- 19th Street Improvements:
 - o Existing right-of-way width: 45 feet.
 - o Classification: Neighborhood Route
 - o No street improvements required for lot line adjustment.

SANITARY SEWER

Minimum Required Improvement:

- Each lot shall have its own sanitary sewer service line.
- An existing sanitary sewer main line exists in 19th St and has capacity to receive additional flow.

DOMESTIC WATER

Minimum Required Improvement:

- Each lot shall have its own water service and meter.
- An existing 8" water main line exists in 19th St.
- Any connection to the public water main line shall be made by City crews, who will install the service line to the edge of right-of-way.

SURFACE WATER (STORM SEWER)

Minimum Required Improvement:

- Onsite run-off generated from new impervious areas of greater than 5,000 square feet must be captured, treated, detained and conveyed to the nearest public stormwater system in accordance with the Portland Stormwater Management Manual, the Uniform Plumbing Code, and City of West Linn Public Works Standards.
- Onsite run-off generated from new impervious area of greater than 1,000 square feet must be captured, treated, and conveyed to nearest public stormwater system.



Pre-app Comments

Project Number: PA-22-17 1686 19th Street

Engineering Contact:

Casey Thompson, EIT cthompson@westlinnoregon.gov Telephone: (503) 722-3435

• Stormwater facilities installed to capture, treat, detain and convey stormwater from the private improvements shall be privately owned and maintained.

OTHER

- Development shall pay all applicable System Development Charges (SDC) fees at the time of home construction.
- Future development of the site will disturb more than 1 acre, therefore a 1200-CN Erosion Control Permit Application, as outlined in Section 2.0066 of the *City of West Linn Public Works Standards*, will be required prior to the commencement of construction.

CITY OF WEST LINN PRE-APPLICATION CONFERENCE MEETING SUMMARY NOTES June 2, 2022

SUBJECT: Lot Line Adjustment

FILE: PA-22-17

ATTENDEES: Applicant: Michael Trusheim, Daisy Goebel (AKS), Zach Pelz (AKS)

Staff: Chris Myers (Planning), Lynn Schroder (Planning)

Public: Kathy Halicki (WNA President)

The following is a summary of the meeting discussion provided to you from staff meeting notes. Additional information may be provided to address any "follow-up" items identified during the meeting. <u>These comments are PRELIMINARY in nature</u>. Please contact the Planning Department with any questions regarding approval criteria, submittal requirements, or any other planning-related items. Please note disclaimer statement below.

Site Information

Site Address: 1686 19th Street

Tax Lot No.: 31E03AA01700, 31E03AA01600

Site Area: 10,314 square feet and 11,823 square feet +/-

Neighborhood: Willamette Neighborhood Association

Comp. Plan: Low-density residential

Zoning: Single-Family Residential Attached, R-10

Zoning Overlays: N/A

Applicable CDC Chapters: Chapter 11: Single-Family Residential Attached, R-10

Chapter 85: Land Division

Project Details

Proposed lot line adjustment between two legal lots of record.

Pertinent Factors:

The applicant is proposing a lot line adjustment that would increase the size of the property at 1688 19th street and decrease the property size at 1686 19th street. Both properties would meet the minimum 10,000 square foot lot requirement.

A lot line adjustment does not require a pre-application conference however, the complexity of this property and the access to it, indicated that a pre-application conference would be the most efficient way to ensure future development of the site has been adequately discussed and prepared for.

Discussion was centered around the access to 1688. The partition decision from 2008 has a condition of approval that required an access easement across the north side of 1686 that would allow access to 1688. At this time, it is unclear if that access easement was recorded since the partition was finalized. The applicant or applicant's agent will send proof of easement record.

The potential for the property at 1688 to take access from the existing shared access drive was discussed. However, the Community Development Code allows for only 4 single-family homes to take access from a shared access drive. Currently four single-family homes utilize the shared access drive. Therefore, this is not an option for access to 1688.

The applicable Community Development Code chapters for a lot line adjustment are listed above. Criteria for those chapters must be addressed in the lot line adjustment application. Access to the property at 1688 does not have to be addressed for the lot line adjustment but will need to be addressed at time of development.

<u>Building</u>: For building code and ADA questions, please contact Adam Bernert at <u>abernert@westlinnoregon.gov</u> or 503-742-6054.

<u>Engineering</u>: For work in the right of way and utility questions, please contact Erich Lais at <u>elais@westlinnoregon.gov</u> or 503-722-3434.

Tualatin Valley Fire & Rescue: Please contact Jason Arn at jason.arn@tvfr.com or 503-259-1510 with any questions.

<u>Process</u>: For the proposal, address the submittal requirements and standards for decision making in the Community Development Code (CDC) chapters:

Chapter 11: Single-Family Residential Attached, R-10

Chapter 85: Land Division

N/A is not an acceptable response to the approval criteria. The submittal requirements may be waived, but the applicant must first identify the specific submittal requirement and request, in letter form, that it be waived by the Planning Manager and must identify the specific grounds for that waiver.

Once the application and deposit/fee are submitted, the City has 30 days to determine if the application is complete or not. If the application is not complete, the applicant has 180 days to make it complete or provide written notice to staff that no other information will be provided. Once complete, the City has 120 days from the date of completeness to make a final decision on the application.

Typical land use applications can take 6-10 months from beginning to end.

DISCLAIMER: This summary discussion covers issues identified to date. It does not imply that these are the only issues. The burden of proof is on the applicant to demonstrate that all approval criteria have been met. These notes do not constitute an endorsement of the proposed application *or provide any assurance of potential outcomes*. Staff responses are based on limited material presented at this pre-application meeting. New issues, requirements, etc. could emerge as the application is developed. Pre-application notes are void after 18 months. After 18 months with no application approved or in process, a new pre-application conference is required. Any changes to the CDC standards may require a different design or submittal.



Tree Removal Permit

Please submit <u>pictures</u> of trees and <u>site map</u> with trees clearly identified to complete application.

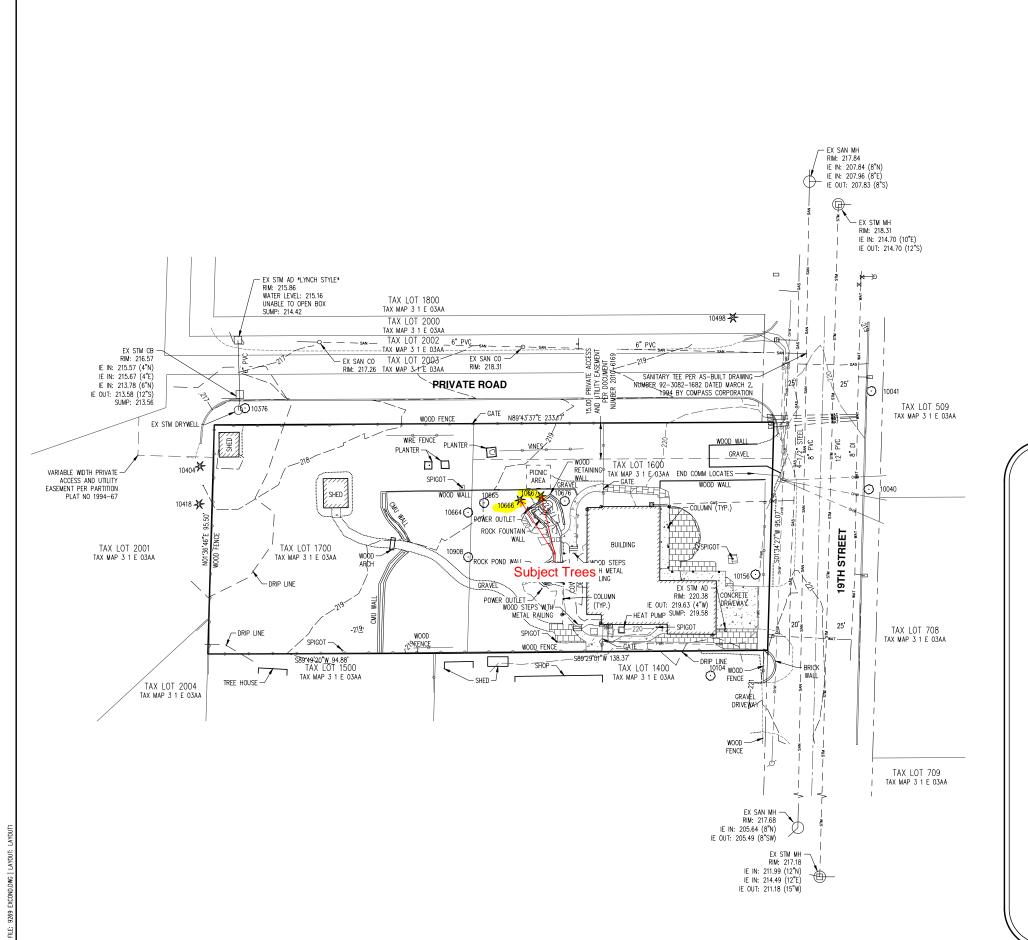
Please mark trees on site with ribbon, flagging tape or other marker.

Email submissions are acceptable. Please do not fax pictures or site map.

Property Owner	Tree Site A	Address (if different)
Name		
Address		
Phone #		
Email		
AKS Engineering and Forestry, Number, Diameter, and Species of Trees	kocsisb@aks-eng.com, (5	03) 563-6151
rumber, Diameter, and Species of Trees)•	
1	4	
2	5	
3	6	
Reasons for Removal (code section 8.630))	
Reasons for Removar (code section 6.05)	')	
Owners Signature	Date	
Owners Signature	Date	
Staff Only Below this Line		
Approved Not Approved		
D 6 A 1/D 1	Signature	Date
Reasons for Approval/Denial:		
Conditions of Approval		
**		
After a decision is made, there is a 10 day		
this period then the tree may be removed	on or after	_•
This permit expires after one year.		

The approved permit must be clearly posted on site when tree removal is occurring.

City of West Linn Parks and Recreation Department 22500 Salamo Rd., West Linn, OR 97068 Ph. 503-557-4700 Fax 503-656-4106 treepermits@westlinnoregon.gov



NOTES:

1. UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBER 22061703. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING

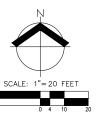
- 2. FIELD WORK WAS CONDUCTED MARCH 3, 4, AND 10, 2022.
- 3. VERTICAL DATUM: ELEVATIONS WERE DERIVED FROM THE TRIMBLE VRS NOW NETWORK (NAVD 88).
- 4. HORIZONTAL DATUM: A LOCAL DATUM PLANE DERIVED FROM STATE PLANE OREGON NORTH 3601, INTERNATIONAL FOOT, NADB3/2011/EPOCH: 2010.0000, BY MULTIPLYING BY A PROJECT MEAN COMBINED GROUND SCALE FACTOR OF 1.0001076429 AT A CENTRAL PROJECT POINT WITH STATE PLANE GRID COORDINATES OF N:619091.174 E:7645911.381 WITH A MERIDIAN CONVERGENCE ANGLE OF -1'32'03". STATE PLANE COORDINATES WERE DERIVED FROM THE TRIMBLE VRS NOW NETWORK.
- 5. THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
- BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
- 7. CONTOUR INTERVAL IS 1 FOOT.
- 8. TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.

-	TREE TABLE	
EE NUMBER	TYPE	DBH (IN.)
10040	DECIDUOUS	12
10041	DECIDUOUS	18
10104	DECIDUOUS	6,6,10
10156	DECIDUOUS	6,6,6,7
10376	DECIDUOUS	20
10404	CONIFEROUS	40
10418	CONIFEROUS	33
10498	CONIFEROUS	36
10664	DECIDUOUS	6
10665	DECIDUOUS	6
10666	CONIFEROUS	26
10667	CONIFEROUS	26
10676	DECIDUOUS	6
10908	DECIDUOUS	7,8

LEGEND

<u>EX</u>	<u>isting</u>		EXISTING
DECIDUOUS TREE	\odot	STORM DRAIN DOWNSPOUT	8
	Ň.	STORM DRAIN CATCH BASIN	
CONIFEROUS TREE	7 7	STORM DRAIN AREA DRAIN	
FIRE HYDRANT	Д	STORM DRAIN MANHOLE	0
WATER METER		GAS METER	
WATER VALVE	M	GAS VALVE	Ø
SANITARY SEWER CLEAN OUT	0	GUY WIRE ANCHOR	\leftarrow
SANITARY SEWER MANHOLE	0	UTILITY POLE	-0-
SIGN		POWER JUNCTION BOX	Δ
STREET LIGHT	ф	COMMUNICATIONS JUNCTION BOX	Δ
MAILBOX	IMB	COMMUNICATIONS RISER	٥

	<u>EXISTING</u>
RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	
GRAVEL EDGE	
POWER LINE	— — PWR — — PWR —
OVERHEAD WIRE	они они
COMMUNICATIONS LINE	com com _
FIBER OPTIC LINE	cro cro _
GAS LINE	GAS GAS _
STORM DRAIN LINE	stm stm
SANITARY SEWER LINE	san san
WATER LINE	— — — wat — — — wat —



Z Z J 9TH ST _ 989 WE $\overline{}$

AKS ENGINEERING & FORE 12965 SW HERMAN RD, S' TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM

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OREGON

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CONDITION AN **O** STIN EX

DESIGNED BY: CP/MSD DRAWN BY: MANAGED BY: CHECKED BY: DATE: 9/14/2022 JANUARY 9, 2007 NICK WHITE 70652LS RENEWS: 6/30/24

JOB NUMBER 9269

SHEET





1686 19th Street West Linn, Oregon

Preliminary Stormwater Report

Date: October 2022

Client: Michael Trusheim

9400 SE Clackamas Road Clackamas, OR 97015

Engineering Contact: Jonathon Morse, PE

503-563-6151 | jonm@aks-eng.com

Prepared By: Jadon Smith, EI

Engineering Firm: AKS Engineering & Forestry, LLC

12965 SW Herman Road

Suite 100

Tualatin, OR 97062

AKS Job Number: 9269



RENEWAL DATE: 12/31/22



www.aks-eng.com

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Appendices

Appendix A: Vicinity Map

Appendix B: Pre-Developed and Post Developed Basin Map **Appendix C:** Pre-Developed Hydrographs and Flow Information **Appendix D:** Post-Developed Hydrographs and Flow Information

Appendix E: Soil Information from the USDA Soil Survey of Clackamas County **Appendix F:** Geotechnical Engineering Report from GeoPacific Engineering, Inc.

Preliminary Stormwater Report

1686 19th Street West Linn, oregon

1.0 Purpose of Report

The purpose of this report is to:

- Show compliance with all City of West Linn stormwater drainage requirements and design criteria.
- Provide site data, calculations, maps, drawings, cross-sections, analysis, and other information needed to support and verify the findings and conclusions of the drainage report.
- Prepare a conceptual stormwater drainage plan to mitigate the stormwater drainage impacts of the development.
- Provide evidence (plans) that the planned drainage system and facilities will meet required
 design criteria, will fit on the site, and will, to the greatest extent possible, avoid or minimize
 destruction or loss of natural resources.
- Provide design criteria needed to prepare construction plans and specifications.

2.0 Project Overview

2.1. Location

The subject site is located on tax lots 1600 & 1700 of Clackamas County Assessor's Map 3 1E 03AA, ±300 feet north of the intersection of Willamette Falls Drive and 19th Street in West Linn, Oregon.

2.2. Soil Classification

The Natural Resources Conservation Service (NRCS) Soil Survey of Clackamas County, Oregon (Appendix E) classifies the on-site soil as Willamette silt loam, 0 to 3 percent slopes (HSG C).

On September 6th, 2022, the project geotechnical engineer, GeoPacific Engineering Inc., conducted a site evaluation (Appendix F). On-site soil infiltration testing was performed at various depths on the subject site. Based on the finding of the infiltration testing, the project geotechnical engineer recommended an infiltration rate of 1.4 inches per hour be used between depths of 7 and 17 feet, and a rate of 0.0 inches per hour be used between depths of 0 and 7 feet, as well as below a depth 17 feet. A factor of safety of two was applied and a design infiltration rate of 0.7 inches per hour was used between depths of 7 and 17 feet.

2.3. Existing Site

Tax lot 1600 of the subject site is currently developed with a single-family residence, associated concrete driveway, and landscaped yard. Tax lot 1700 is currently only developed with a landscaped back yard that is associated with the residence on tax lot 1600.

2.4. Project Overview

Planned improvements include the construction of a new single-family residence on tax lot 1700 with associated on-site improvements (e.g., paved driveway, utilities, etc.). A paved private driveway will be constructed within an easement on tax lot 1600 as well as the construction of a private stormwater management facility.

2.5. Design Criteria

New impervious areas created with this project will be greater than 1,000 square feet. Per the City of West Linn *Public Works Design Standards* (2019) Section 2, Storm Drain Requirements, stormwater quality and detention will be required as follows:

- Stormwater discharge from the subject site for the 2-, 10-, and 25-year storm events shall not exceed that of the pre-developed condition.
- Removal of 70 percent of total suspended solids (TSS) from 90 percent of the average annual runoff is required per the City of Portland *Stormwater Management Manual* (2020) Chapter 1, Requirements and Policies, Stormwater Management and Conveyance Requirements.

2.6. Impervious Area Calculations

This project will add approximately 6,934 square feet of new impervious area, including 3,745 square feet of impervious roof area and 3,189 square feet of impervious driveway (see Appendix B).

Table 2-1: Impervious Area Table				
Post-Developed Condition	Area (square feet)			
New Roof Area (Home and Garage)	3,745			
New Driveway	3,189			
Total New	6,934			

3.0 Existing drainage Characteristics

3.1. On-site Drainage Characteristics

Based on the site topographic survey, onsite slopes range between 0 and 3 percent, with the site generally draining toward the northwest corner of the property.

3.2. Uphill Drainage Characteristics

The area uphill of the subject site consists of single-family residential homes on developed lots with landscaped yards. There are no observed drainage channels entering the site from the uphill drainage area.

3.3. Downhill Drainage Characteristics

There is no observed drainage exiting the site.

4.0 Proposed Drainage Conveyance Systems

4.1. On-site Conveyance

Stormwater runoff generated by the newly created impervious areas will be managed on site via a private chamber trench infiltration system.

Stormwater runoff from the roof of the new home will be captured by the gutter system and routed via closed conduit storm pipe into the chamber trench system for detention. Stormwater runoff generated by the impervious driveway will be captured by area drains and routed via closed-conduit pipe to the chamber trench system for detention and infiltration.

The Unit Hydrograph Method in conjunction with Manning's Equation for pipe flow were used size the closed conduit conveyance pipe. HydroCAD software was also used to assist in the calculations. The sizing of the conveyance pipe is preliminary and will be finalized with the building permit application.

4.2. Uphill Conveyance

The site topographic survey indicates there are no defined drainage channels entering the site and there does not appear to be any significant sheet, shallow concentrated, or channelized flow entering the subject site.

4.3. Downstream Conveyance

Excess runoff generated from storm events will be conveyed through the private chamber trench overflow pipe to the existing 12-inch public storm main in the 19th Street Right-of-Way.

5.0 Surface Water Quality and Detention Facilities

5.1. Private Stormwater Management Facility

The stormwater management facility will consist of a private chamber trench infiltration system located on-site. The Unit Hydrograph Method was used to size the chamber trench system and HydroCAD software aided in the analysis. The chamber trench infiltration system reduces the discharge rate from 2, 10, and 25-year events to less than the pre-development discharge rate. The chamber trench system design is preliminary and will be finalized with the building permit application.

Runoff from the paved driveway will be pretreated with lynch-style catch basins before being conveyed to the chamber trench system to meet water quality requirements per The City of Portland *Stormwater Management Manual*.

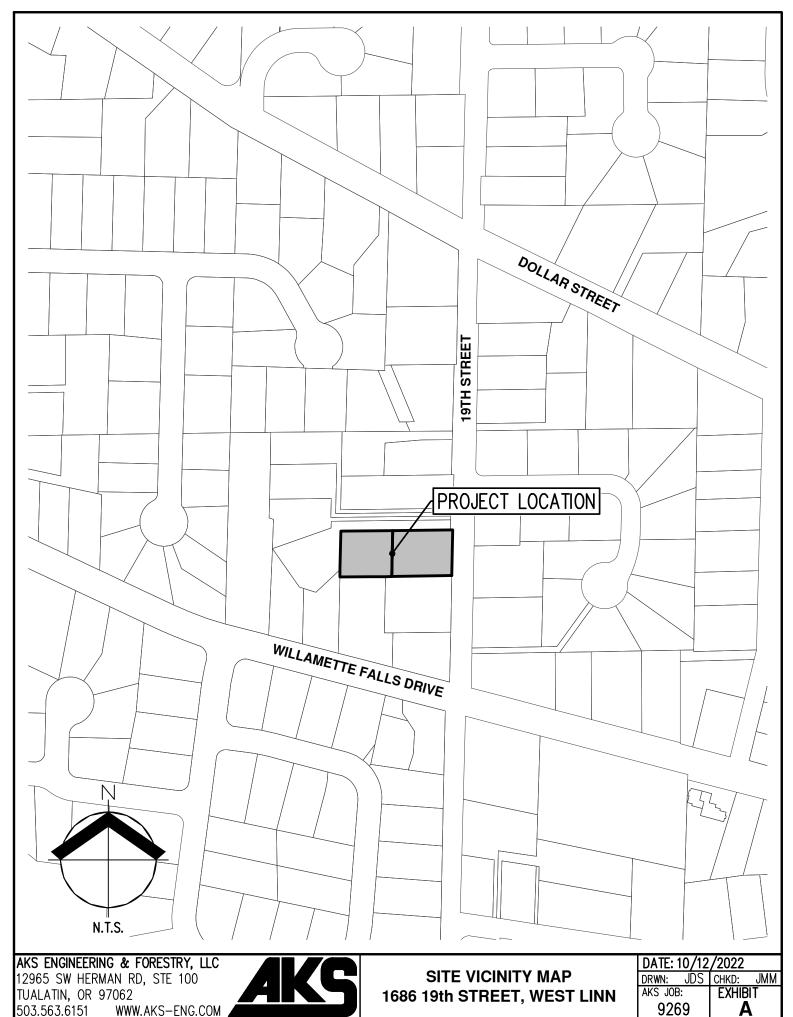
Table 5-1 provides a comparison between the pre-developed and post-developed runoff for the 2, 10, and 25-year storm events showing onsite detention.

Table 5-1: Pre-Developed vs. Post-Developed Runoff Comparison				
Storm Event	Pre-Developed Runoff (cubic feet per second)	Post-Developed Runoff (cubic feet per second)		
2-Year Storm Event	0.01	0.00		
10-Year Storm Event	0.04	0.02		
25-Year Storm Event	0.05	0.03		

As designed, stormwater runoff generated by the new impervious areas will be detained on site and outflow will be reduced to less than the pre-developed rate for 2, 10, and 25-year storm events.



Appendix A: Vicinity Map



503.563.6151 WWW.AKS-ENG.COM 2 DWG: 9269 VICINITY | LAYOUT1



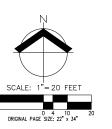
Appendix B: Pre-Developed and Post Developed Basin Map

POST-DEVELOPED BASIN MAP

SCALE: 1" = 20'

PRE-DEVELOPED BASIN MAP SCALE: 1" = 20'







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10/12/2022

DATE:

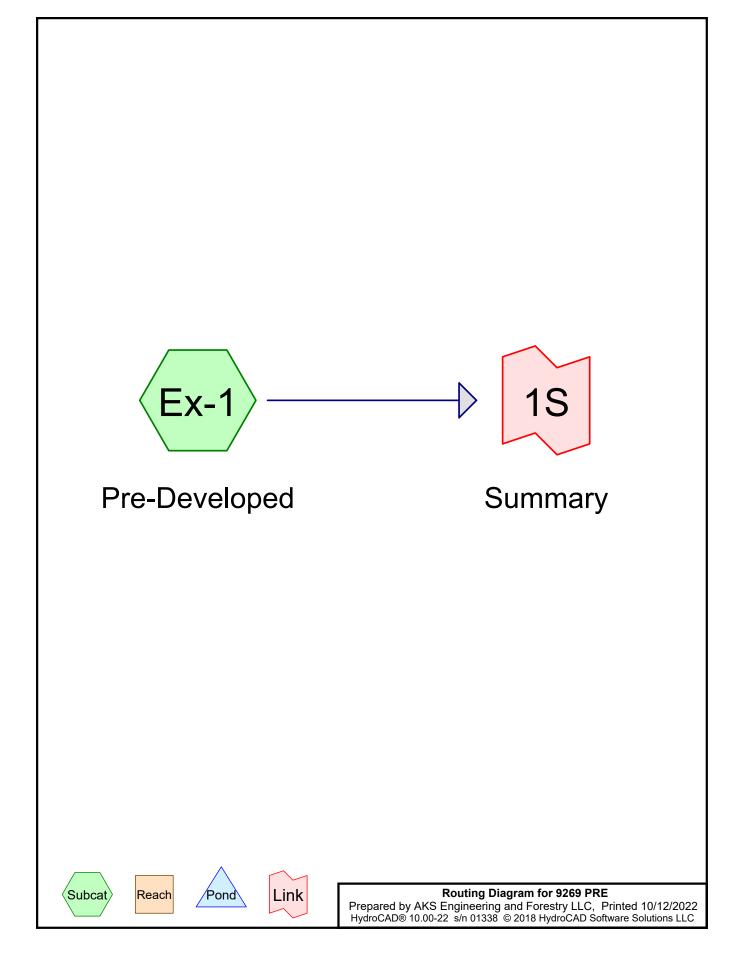
DESIGNED BY:

DRAWN BY:

BASINS



Appendix C: Pre-Developed Hydrographs and Flow Information



9269 PRE

Prepared by AKS Engineering and Forestry LLC
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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
6,934 6,934	70 70	>75% Grass cover, Good, HSG C (Ex-1) TOTAL AREA

Printed 10/12/2022 Page 3

Soil Listing (all nodes)

Area	Soil	Subcatchment
(sq-ft)	Group	Numbers
0	HSG A	
0	HSG B	
6,934	HSG C	Ex-1
0	HSG D	
0	Other	
6,934		TOTAL AREA

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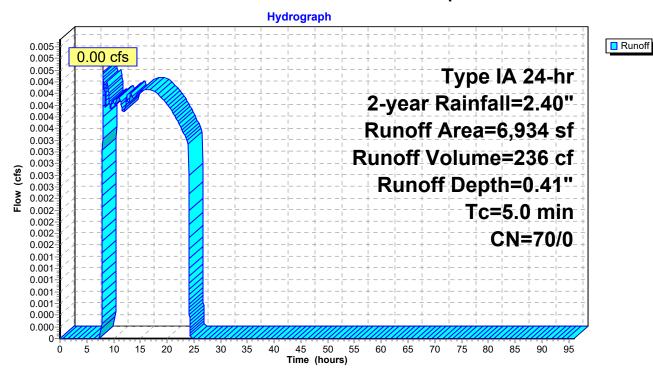
Summary for Subcatchment Ex-1: Pre-Developed

Runoff = 0.00 cfs @ 8.01 hrs, Volume= 236 cf, Depth= 0.41"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 2-year Rainfall=2.40"

	Α	rea (sf)	CN	Description					
*		3,745	70	>75% Grass	s cover, Go	ood, HSG C			
*		3,189	70	>75% Grass	75% Grass cover, Good, HSG C				
		6,934	70	Weighted A	verage				
		6,934	70	100.00% Pe		a			
	Tc (min)	Length (feet)	Slop (ft/f	,	Capacity (cfs)	Description			
	5.0					Direct Entry, Time of Concentration			

Subcatchment Ex-1: Pre-Developed



Printed 10/12/2022

Page 5

Summary for Link 1S: Summary

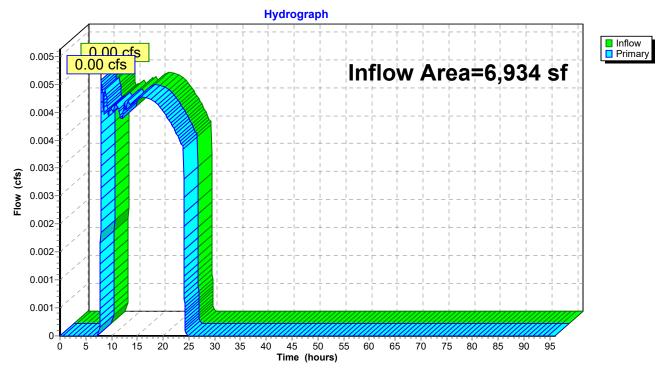
Inflow Area = 6,934 sf, 0.00% Impervious, Inflow Depth = 0.41" for 2-year event

Inflow = 0.00 cfs @ 8.01 hrs, Volume= 236 cf

Primary = 0.00 cfs @ 8.01 hrs, Volume= 236 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary



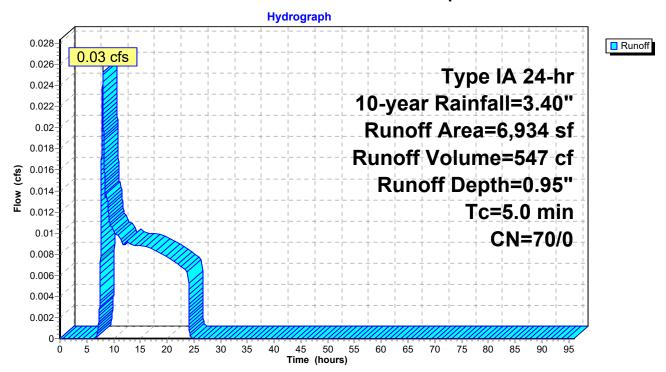
Summary for Subcatchment Ex-1: Pre-Developed

8.00 hrs, Volume= 547 cf, Depth= 0.95" Runoff 0.03 cfs @

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 10-year Rainfall=3.40"

	Α	rea (sf)	CN	Description					
*		3,745	70	>75% Grass	s cover, Go	ood, HSG C			
*		3,189	70	>75% Grass	>75% Grass cover, Good, HSG C				
		6,934	70	Weighted A	verage				
		6,934	70	100.00% Pe		a			
	Tc (min)	Length (feet)	Slop (ft/f	,	Capacity (cfs)	Description			
	5.0					Direct Entry, Time of Concentration			

Subcatchment Ex-1: Pre-Developed



Summary for Link 1S: Summary

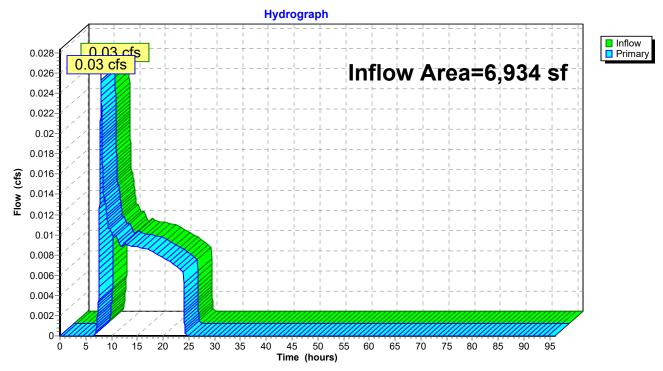
Inflow Area = 6,934 sf, 0.00% Impervious, Inflow Depth = 0.95" for 10-year event

Inflow = 0.03 cfs @ 8.00 hrs, Volume= 547 cf

Primary = 0.03 cfs @ 8.00 hrs, Volume= 547 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary



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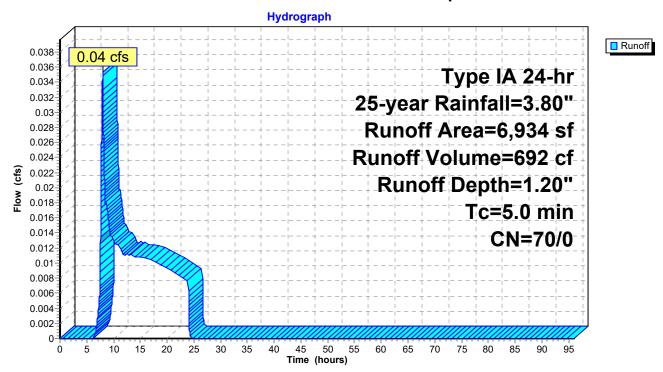
Summary for Subcatchment Ex-1: Pre-Developed

Runoff = 0.04 cfs @ 8.00 hrs, Volume= 692 cf, Depth= 1.20"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 25-year Rainfall=3.80"

	Α	rea (sf)	CN	Description					
*		3,745	70	>75% Gras	s cover, Go	ood, HSG C			
*		3,189	70	>75% Gras	75% Grass cover, Good, HSG C				
		6,934	70	Weighted A	verage				
		6,934	70		100.00% Pervious Area				
	Tc	Length	Slop	,	Capacity	Description			
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)				
	5.0					Direct Entry, Time of Concentration			

Subcatchment Ex-1: Pre-Developed



Summary for Link 1S: Summary

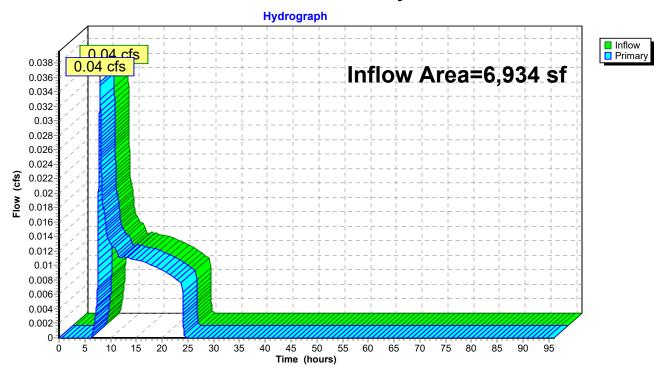
Inflow Area = 6,934 sf, 0.00% Impervious, Inflow Depth = 1.20" for 25-year event

Inflow = 0.04 cfs @ 8.00 hrs, Volume= 692 cf

Primary = 0.04 cfs @ 8.00 hrs, Volume= 692 cf, Atten= 0%, Lag= 0.0 min

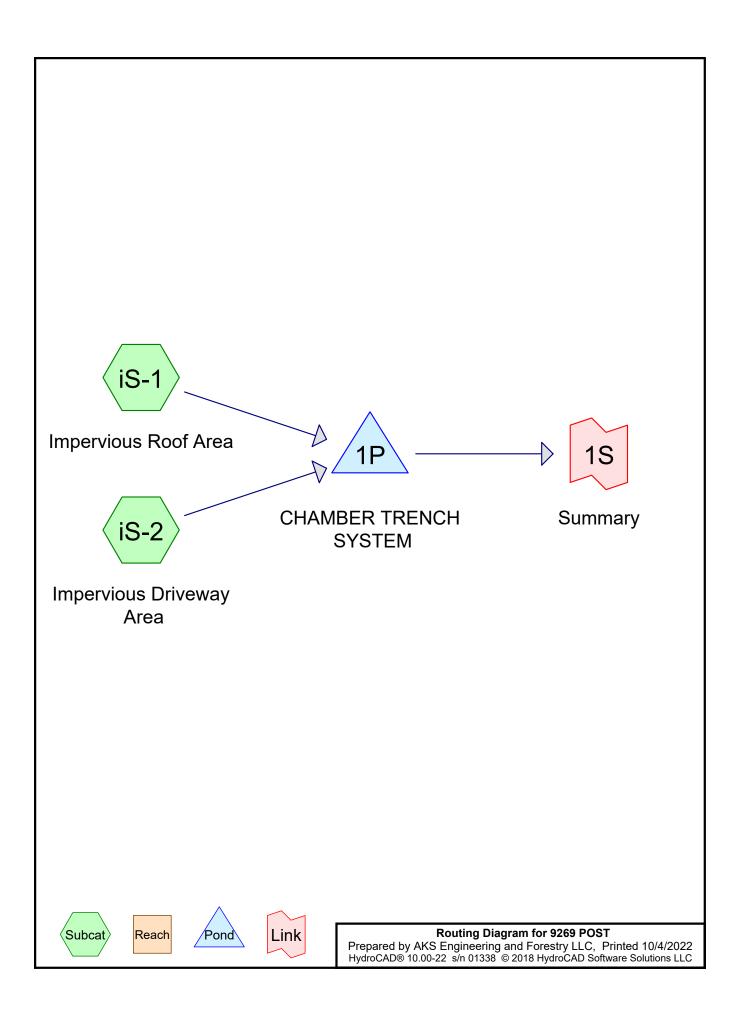
Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary





Appendix D: Post-Developed Hydrographs and Flow Information



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Area Listing (all nodes)

	Area	CN	Description
((sq-ft)		(subcatchment-numbers)
	3,189	98	Paved parking, HSG C (iS-2)
	3,745	98	Roofs, HSG C (iS-1)
	6,934	98	TOTAL AREA

9269 POST

Prepared by AKS Engineering and Forestry LLC
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Soil Listing (all nodes)

Area	Soil	Subcatchment
(sq-ft)	Group	Numbers
0	HSG A	
0	HSG B	
6,934	HSG C	iS-1, iS-2
0	HSG D	
0	Other	
6,934		TOTAL AREA

9269 POST

Prepared by AKS Engineering and Forestry LLC
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Pipe Listing (all nodes)

Line#	Node	In-Invert	Out-Invert	Length	Slope	n	Diam/Width	Height	Inside-Fill
	Number	(feet)	(feet)	(feet)	(ft/ft)		(inches)	(inches)	(inches)
1	1P	0.75	4.05	25.1	-0.1315	0.013	6.0	0.0	0.0

Printed 10/4/2022 Page 5

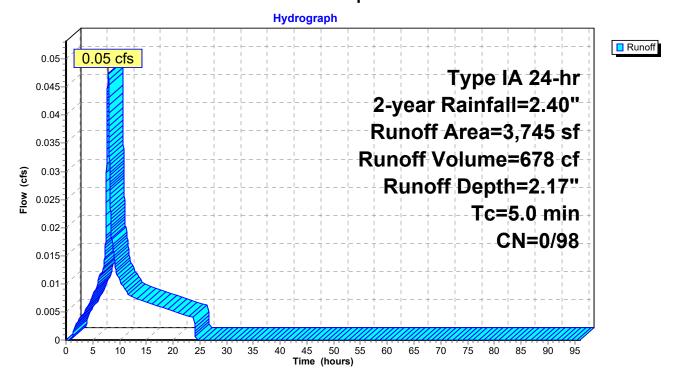
Summary for Subcatchment iS-1: Impervious Roof Area

Runoff = 0.05 cfs @ 7.88 hrs, Volume= 678 cf, Depth= 2.17"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 2-year Rainfall=2.40"

_	Α	rea (sf)	CN	Description					
		3,745	98	Roofs, HSG C					
		3,745	98	100.00% Im	npervious A	rea			
	Tc (min)	Length (feet)	Slope (ft/ft	e Velocity (ft/sec)	Capacity (cfs)	Description			
	5.0					Direct Entry, Time of Concentration			

Subcatchment iS-1: Impervious Roof Area



Printed 10/4/2022

Page 6

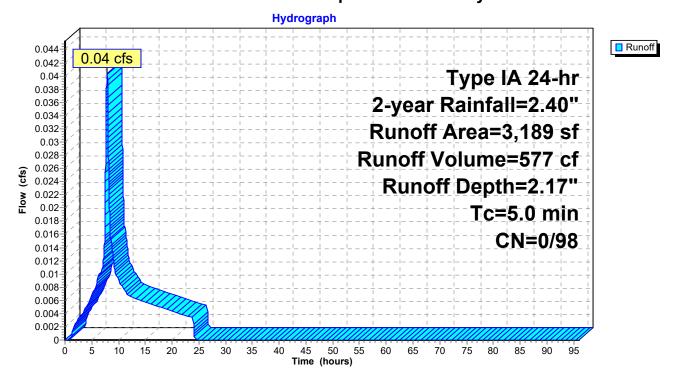
Summary for Subcatchment iS-2: Impervious Driveway Area

Runoff = 0.04 cfs @ 7.88 hrs, Volume= 577 cf, Depth= 2.17"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 2-year Rainfall=2.40"

 Α	rea (sf)	CN	Description					
	3,189	98	Paved parking, HSG C					
	3,189	98	100.00% Impervious Area					
Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description			
5.0					Direct Entry, Time of Concentration			

Subcatchment iS-2: Impervious Driveway Area



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Summary for Pond 1P: CHAMBER TRENCH SYSTEM

6,934 sf,100.00% Impervious, Inflow Depth = 2.17" for 2-year event Inflow Area = Inflow 0.09 cfs @ 7.88 hrs. Volume= 1.255 cf 0.01 cfs @ 2.36 hrs, Volume= 1,255 cf, Atten= 94%, Lag= 0.0 min Outflow 2.36 hrs, Volume= Discarded = 1,255 cf 0.01 cfs @ 0.00 cfs @ Primary 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Peak Elev= 3.89' @ 24.03 hrs Surf.Area= 350 sf Storage= 798 cf

Plug-Flow detention time= 1,273.7 min calculated for 1,255 cf (100% of inflow) Center-of-Mass det. time= 1,273.8 min (1,947.8 - 674.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	0.00'	403 cf	8.42'W x 41.55'L x 5.50'H Field A
			1,923 cf Overall - 580 cf Embedded = 1,344 cf x 30.0% Voids
#2A	0.75'	580 cf	ADS_StormTech MC-3500 d +Cap x 5 Inside #1
			Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
			Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
			Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf
		200	T / / A / A

983 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	0.700 in/hr Exfiltration over Surface area
#2	Primary	4.05'	6.0" Round Overflow
			L= 25.1' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 0.75' / 4.05' S= -0.1315 '/' Cc= 0.900
			n= 0.013. Flow Area= 0.20 sf

Discarded OutFlow Max=0.01 cfs @ 2.36 hrs HW=0.06' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge) 2=Overflow (Controls 0.00 cfs)

Pond 1P: CHAMBER TRENCH SYSTEM - Chamber Wizard Field A

Chamber Model = ADS_StormTech MC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)

Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf

5 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 39.55' Row Length +12.0" End Stone x 2 = 41.55' Base Length

1 Rows x 77.0" Wide + 12.0" Side Stone x 2 = 8.42' Base Width

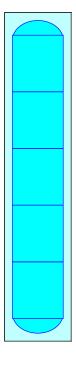
9.0" Base + 45.0" Chamber Height + 12.0" Cover = 5.50' Field Height

5 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 1 Rows = 579.6 cf Chamber Storage

1,923.4 cf Field - 579.6 cf Chambers = 1,343.9 cf Stone x 30.0% Voids = 403.2 cf Stone Storage

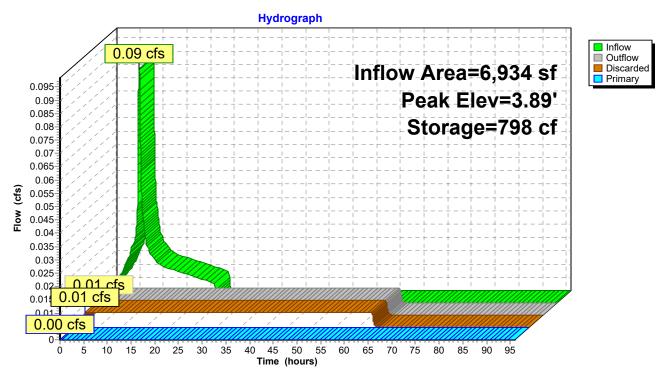
Chamber Storage + Stone Storage = 982.7 cf = 0.023 af Overall Storage Efficiency = 51.1% Overall System Size = 41.55' x 8.42' x 5.50'

5 Chambers 71.2 cy Field 49.8 cy Stone



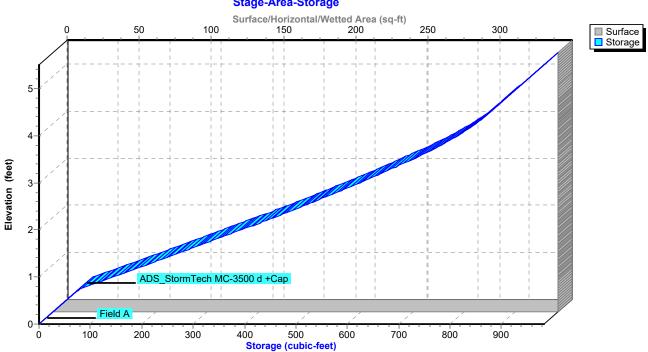


Pond 1P: CHAMBER TRENCH SYSTEM



Pond 1P: CHAMBER TRENCH SYSTEM





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Summary for Link 1S: Summary

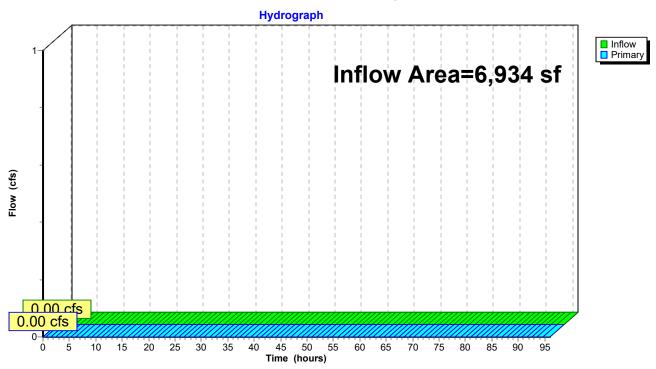
Inflow Area = 6,934 sf,100.00% Impervious, Inflow Depth = 0.00" for 2-year event

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Primary = $0.00 \text{ cfs } \overline{@}$ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary



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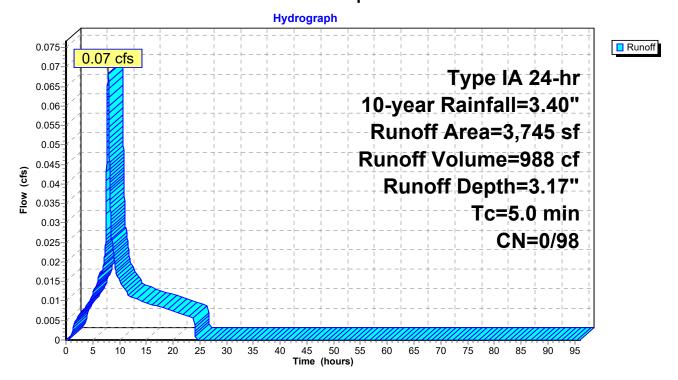
Summary for Subcatchment iS-1: Impervious Roof Area

Runoff = 0.07 cfs @ 7.88 hrs, Volume= 988 cf, Depth= 3.17"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 10-year Rainfall=3.40"

_	Α	rea (sf)	CN	N Description				
		3,745	98	Roofs, HSG	G C			
		3,745	98	100.00% Im	npervious A	rea		
	Tc (min)	Length (feet)	Slope (ft/ft	e Velocity (ft/sec)	Capacity (cfs)	Description		
	5.0					Direct Entry, Time of Concentration		

Subcatchment iS-1: Impervious Roof Area



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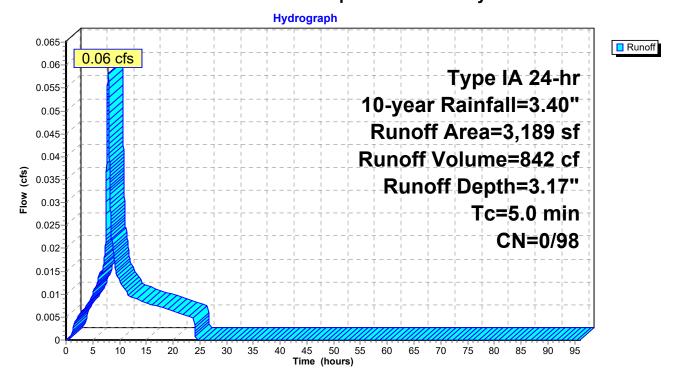
Summary for Subcatchment iS-2: Impervious Driveway Area

Runoff = 0.06 cfs @ 7.88 hrs, Volume= 842 cf, Depth= 3.17"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 10-year Rainfall=3.40"

	Α	rea (sf)	CN	Description				
		3,189	98	Paved parking, HSG C				
		3,189	98	100.00% Im	npervious A	rea		
(Tc (min)	Length (feet)	Slope (ft/ft	e Velocity) (ft/sec)	Capacity (cfs)	Description		
	5.0					Direct Entry, Time of Concentration		

Subcatchment iS-2: Impervious Driveway Area



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Summary for Pond 1P: CHAMBER TRENCH SYSTEM

Routing by Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Peak Elev= 4.14' @ 10.67 hrs Surf.Area= 350 sf Storage= 836 cf

Plug-Flow detention time= 1,012.0 min calculated for 1,830 cf (100% of inflow) Center-of-Mass det. time= 1,011.9 min (1,675.5 - 663.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	0.00'	403 cf	8.42'W x 41.55'L x 5.50'H Field A
			1,923 cf Overall - 580 cf Embedded = 1,344 cf x 30.0% Voids
#2A	0.75'	580 cf	ADS_StormTech MC-3500 d +Cap x 5 Inside #1
			Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
			Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
			Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf
		200	T () A 3 1 1 0 0

983 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	0.700 in/hr Exfiltration over Surface area
#2	Primary	4.05'	6.0" Round Overflow
	-		L= 25.1' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 0.75' / 4.05' S= -0.1315 '/' Cc= 0.900
			n= 0.013, Flow Area= 0.20 sf

Discarded OutFlow Max=0.01 cfs @ 1.60 hrs HW=0.06' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.02 cfs @ 10.67 hrs HW=4.14' (Free Discharge) 2=Overflow (Inlet Controls 0.02 cfs @ 0.80 fps)

Pond 1P: CHAMBER TRENCH SYSTEM - Chamber Wizard Field A

Chamber Model = ADS_StormTech MC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)

Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf

5 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 39.55' Row Length +12.0" End Stone x 2 = 41.55' Base Length

1 Rows x 77.0" Wide + 12.0" Side Stone x 2 = 8.42' Base Width

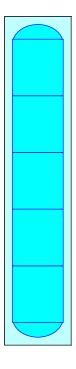
9.0" Base + 45.0" Chamber Height + 12.0" Cover = 5.50' Field Height

5 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 1 Rows = 579.6 cf Chamber Storage

1,923.4 cf Field - 579.6 cf Chambers = 1,343.9 cf Stone x 30.0% Voids = 403.2 cf Stone Storage

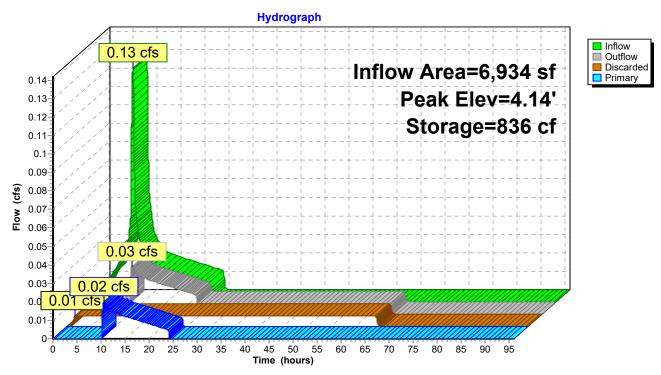
Chamber Storage + Stone Storage = 982.7 cf = 0.023 af Overall Storage Efficiency = 51.1% Overall System Size = 41.55' x 8.42' x 5.50'

5 Chambers 71.2 cy Field 49.8 cy Stone

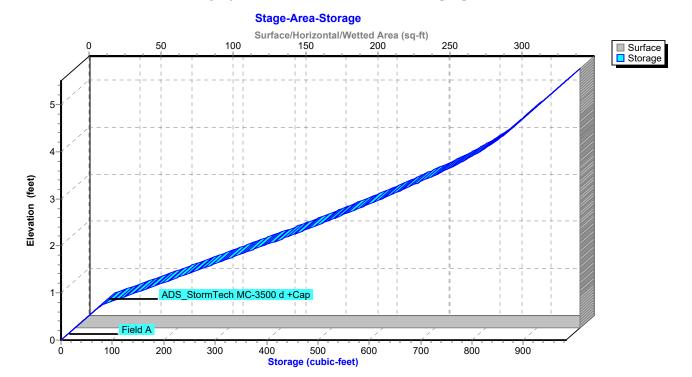




Pond 1P: CHAMBER TRENCH SYSTEM



Pond 1P: CHAMBER TRENCH SYSTEM



Summary for Link 1S: Summary

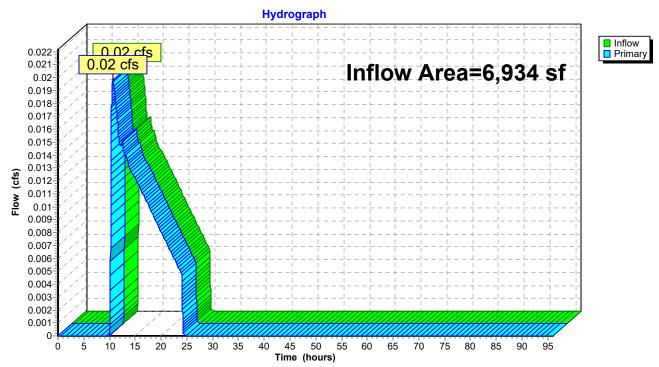
Inflow Area = 6,934 sf,100.00% Impervious, Inflow Depth = 0.93" for 10-year event

Inflow = 0.02 cfs @ 10.67 hrs, Volume= 536 cf

Primary = 0.02 cfs @ 10.67 hrs, Volume= 536 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary



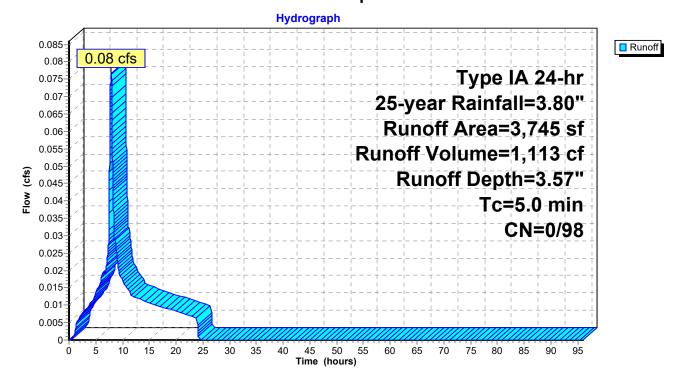
Summary for Subcatchment iS-1: Impervious Roof Area

Runoff = 0.08 cfs @ 7.88 hrs, Volume= 1,113 cf, Depth= 3.57"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 25-year Rainfall=3.80"

 Α	rea (sf)	CN	Description					
	3,745	98	Roofs, HSG C					
	3,745	98	100.00% In	npervious A	rea			
Tc (min)	Length (feet)	Slope (ft/ft	•	Capacity (cfs)	Description			
5.0					Direct Entry, Time of Concentration			

Subcatchment iS-1: Impervious Roof Area



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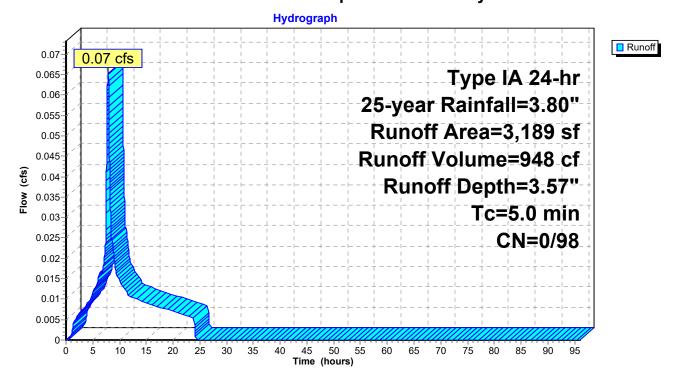
Summary for Subcatchment iS-2: Impervious Driveway Area

Runoff = 0.07 cfs @ 7.88 hrs, Volume= 948 cf, Depth= 3.57"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 25-year Rainfall=3.80"

 Α	rea (sf)	CN	Description				
	3,189	98	Paved parking, HSG C				
	3,189	98	100.00% Im	npervious A	rea		
Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description		
5.0					Direct Entry, Time of Concentration		

Subcatchment iS-2: Impervious Driveway Area



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Summary for Pond 1P: CHAMBER TRENCH SYSTEM

6,934 sf,100.00% Impervious, Inflow Depth = 3.57" for 25-year event Inflow Area = Inflow 0.14 cfs @ 7.88 hrs. Volume= 2.060 cf 0.04 cfs @ 9.20 hrs, Volume= Outflow 2,060 cf, Atten= 73%, Lag= 79.2 min 1.45 hrs, Volume= Discarded = 1,296 cf 0.01 cfs @ Primary = 0.03 cfs @ 9.20 hrs, Volume= 764 cf

Routing by Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Peak Elev= 4.17' @ 9.20 hrs Surf.Area= 350 sf Storage= 839 cf

Plug-Flow detention time= 910.7 min calculated for 2,060 cf (100% of inflow) Center-of-Mass det. time= 910.6 min (1,571.4 - 660.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	0.00'	403 cf	8.42'W x 41.55'L x 5.50'H Field A
			1,923 cf Overall - 580 cf Embedded = 1,344 cf x 30.0% Voids
#2A	0.75'	580 cf	ADS_StormTech MC-3500 d +Cap x 5 Inside #1
			Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
			Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
			Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf
		200	T / / A / A

983 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	0.700 in/hr Exfiltration over Surface area
#2	Primary	4.05'	6.0" Round Overflow
			L= 25.1' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 0.75' / 4.05' S= -0.1315 '/' Cc= 0.900
			n= 0.013. Flow Area= 0.20 sf

Discarded OutFlow Max=0.01 cfs @ 1.45 hrs HW=0.06' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.03 cfs @ 9.20 hrs HW=4.17' (Free Discharge)

2=Overflow (Inlet Controls 0.03 cfs @ 0.93 fps)

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Pond 1P: CHAMBER TRENCH SYSTEM - Chamber Wizard Field A

Chamber Model = ADS_StormTech MC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)

Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf

5 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 39.55' Row Length +12.0" End Stone x 2 = 41.55' Base Length

1 Rows x 77.0" Wide + 12.0" Side Stone x 2 = 8.42' Base Width

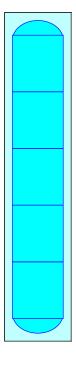
9.0" Base + 45.0" Chamber Height + 12.0" Cover = 5.50' Field Height

5 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 1 Rows = 579.6 cf Chamber Storage

1,923.4 cf Field - 579.6 cf Chambers = 1,343.9 cf Stone x 30.0% Voids = 403.2 cf Stone Storage

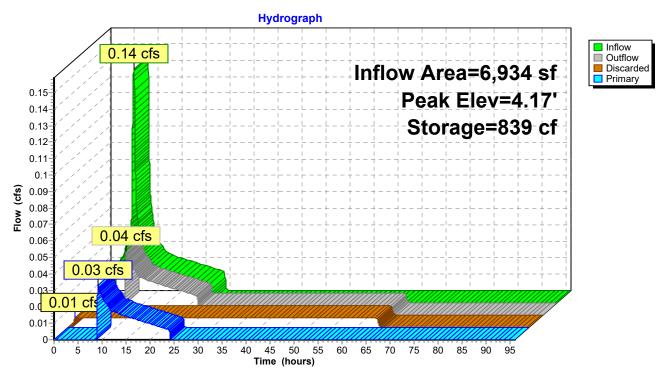
Chamber Storage + Stone Storage = 982.7 cf = 0.023 af Overall Storage Efficiency = 51.1% Overall System Size = 41.55' x 8.42' x 5.50'

5 Chambers 71.2 cy Field 49.8 cy Stone



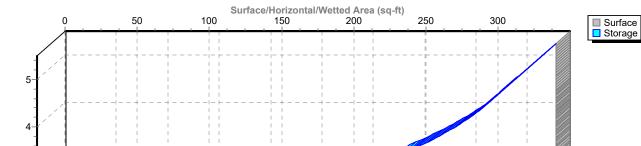


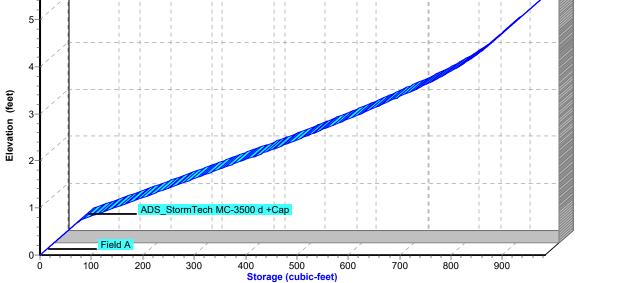
Pond 1P: CHAMBER TRENCH SYSTEM



Pond 1P: CHAMBER TRENCH SYSTEM

Stage-Area-Storage





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Summary for Link 1S: Summary

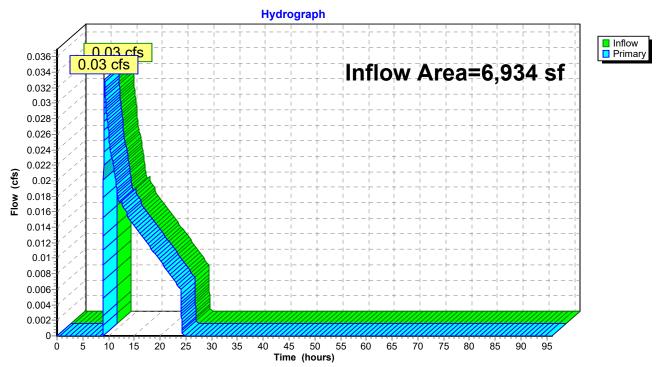
Inflow Area = 6,934 sf,100.00% Impervious, Inflow Depth = 1.32" for 25-year event

Inflow = 0.03 cfs @ 9.20 hrs, Volume= 764 cf

Primary = 0.03 cfs @ 9.20 hrs, Volume= 764 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary



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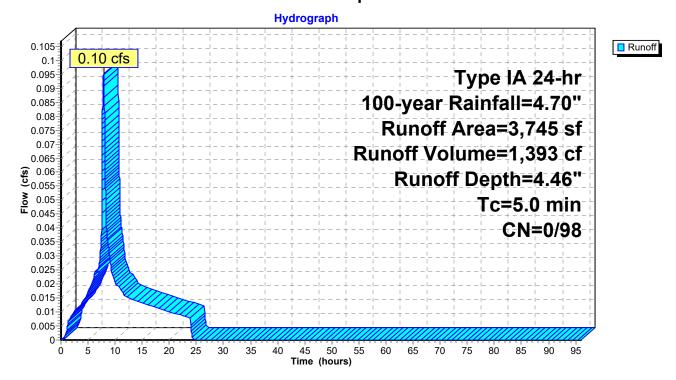
Summary for Subcatchment iS-1: Impervious Roof Area

Runoff = 0.10 cfs @ 7.88 hrs, Volume= 1,393 cf, Depth= 4.46"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 100-year Rainfall=4.70"

 Α	rea (sf)	CN	Description					
	3,745	98	Roofs, HSG C					
	3,745	98	100.00% In	npervious A	rea			
Tc (min)	Length (feet)	Slope (ft/ft	•	Capacity (cfs)	Description			
5.0					Direct Entry, Time of Concentration			

Subcatchment iS-1: Impervious Roof Area



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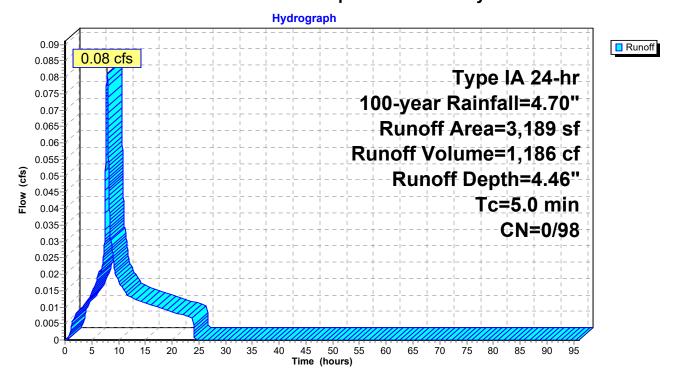
Summary for Subcatchment iS-2: Impervious Driveway Area

Runoff = 0.08 cfs @ 7.88 hrs, Volume= 1,186 cf, Depth= 4.46"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Type IA 24-hr 100-year Rainfall=4.70"

	Α	rea (sf)	CN	Description			
		3,189	98	Paved park			
_		3,189	98	100.00% Im	npervious A	rea	
	Tc (min)	Length (feet)	Slop (ft/fl	e Velocity t) (ft/sec)	Capacity (cfs)	Description	
	5.0					Direct Entry, Time of Concentration	

Subcatchment iS-2: Impervious Driveway Area



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Summary for Pond 1P: CHAMBER TRENCH SYSTEM

6,934 sf,100.00% Impervious, Inflow Depth = 4.46" for 100-year event Inflow Area = Inflow 0.18 cfs @ 7.88 hrs. Volume= 2.579 cf 0.12 cfs @ 8.12 hrs, Volume= Outflow 2,579 cf, Atten= 32%, Lag= 14.7 min 1.23 hrs, Volume= Discarded = 1,301 cf 0.01 cfs @ Primary 0.11 cfs @ 8.12 hrs, Volume= 1,278 cf

Routing by Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs Peak Elev= 4.28' @ 8.12 hrs Surf.Area= 350 sf Storage= 853 cf

Plug-Flow detention time= 742.1 min calculated for 2,579 cf (100% of inflow) Center-of-Mass det. time= 742.1 min (1,398.1 - 656.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	0.00'	403 cf	8.42'W x 41.55'L x 5.50'H Field A
			1,923 cf Overall - 580 cf Embedded = 1,344 cf x 30.0% Voids
#2A	0.75'	580 cf	ADS_StormTech MC-3500 d +Cap x 5 Inside #1
			Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf
			Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap
			Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf
		200	T / / A / A

983 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	0.700 in/hr Exfiltration over Surface area
#2	Primary	4.05'	6.0" Round Overflow
			L= 25.1' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 0.75' / 4.05' S= -0.1315 '/' Cc= 0.900
			n= 0.013. Flow Area= 0.20 sf

Discarded OutFlow Max=0.01 cfs @ 1.23 hrs HW=0.06' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.11 cfs @ 8.12 hrs HW=4.28' (Free Discharge) 2=Overflow (Inlet Controls 0.11 cfs @ 1.29 fps)

Pond 1P: CHAMBER TRENCH SYSTEM - Chamber Wizard Field A

Chamber Model = ADS_StormTech MC-3500 d +Cap (ADS StormTech® MC-3500 d rev 03/14 with Cap volume)

Effective Size= 70.4"W x 45.0"H => 15.33 sf x 7.17'L = 110.0 cf Overall Size= 77.0"W x 45.0"H x 7.50'L with 0.33' Overlap Cap Storage= +14.9 cf x 2 x 1 rows = 29.8 cf

5 Chambers/Row x 7.17' Long +1.85' Cap Length x 2 = 39.55' Row Length +12.0" End Stone x 2 = 41.55' Base Length

1 Rows x 77.0" Wide + 12.0" Side Stone x 2 = 8.42' Base Width

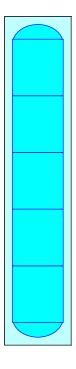
9.0" Base + 45.0" Chamber Height + 12.0" Cover = 5.50' Field Height

5 Chambers x 110.0 cf + 14.9 cf Cap Volume x 2 x 1 Rows = 579.6 cf Chamber Storage

1,923.4 cf Field - 579.6 cf Chambers = 1,343.9 cf Stone x 30.0% Voids = 403.2 cf Stone Storage

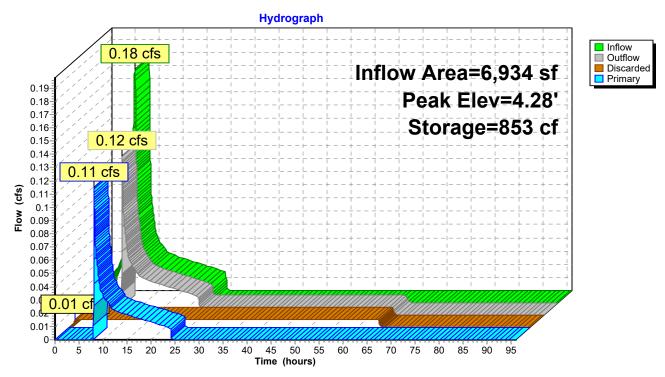
Chamber Storage + Stone Storage = 982.7 cf = 0.023 af Overall Storage Efficiency = 51.1% Overall System Size = 41.55' x 8.42' x 5.50'

5 Chambers 71.2 cy Field 49.8 cy Stone

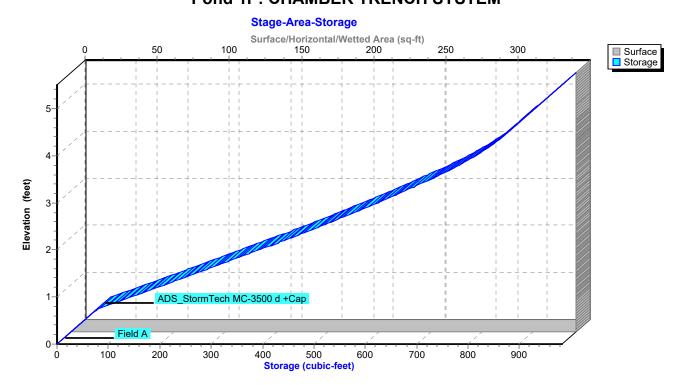




Pond 1P: CHAMBER TRENCH SYSTEM



Pond 1P: CHAMBER TRENCH SYSTEM



Prepared by AKS Engineering and Forestry LLC

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Summary for Link 1S: Summary

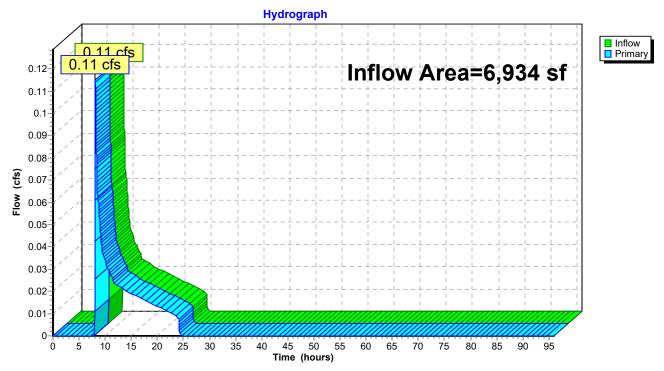
6,934 sf,100.00% Impervious, Inflow Depth = 2.21" for 100-year event Inflow Area =

Inflow 8.12 hrs, Volume= 0.11 cfs @ 1,278 cf

0.11 cfs @ 8.12 hrs, Volume= Primary 1,278 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link 1S: Summary





Appendix E: Soil Information from the USDA Soil Survey of Clackamas County



Natural

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Clackamas County Area, Oregon



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Special Line Features Streams and Canals Interstate Highways Very Stony Spot Major Roads Stony Spot US Routes Spoil Area Wet Spot Other Rails Nater Features **Transportation** W Ŧ Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Soil Map Unit Lines Closed Depression Special Point Features **Gravelly Spot Borrow Pit** Clay Spot **Gravel Pit** Area of Interest (AOI) Blowout 9 Soils

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

Aerial Photography

Marsh or swamp

Lava Flow

Landfill

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

3ackground

Local Roads

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Clackamas County Area, Oregon Survey Area Data: Version 18, Oct 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Date(s) aerial images were photographed: Jun 13, 2019—Jul 25, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
88A	Willamette silt loam, wet, 0 to 3 percent slopes	0.5	100.0%
Totals for Area of Interest		0.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Clackamas County Area, Oregon

88A—Willamette silt loam, wet, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 227q Elevation: 150 to 350 feet

Mean annual precipitation: 40 to 50 inches Mean annual air temperature: 52 to 54 degrees F

Frost-free period: 165 to 210 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Willamette, wet, and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Willamette, Wet

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Stratified glaciolacustrine deposits

Typical profile

H1 - 0 to 14 inches: silt loam H2 - 14 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.57 to 1.98 in/hr)

Depth to water table: About 30 to 42 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: High (about 12.0 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: C

Ecological site: R002XC008OR - Valley Terrace Group

Forage suitability group: Moderately Well Drained < 15% Slopes (G002XY004OR)

Other vegetative classification: Moderately Well Drained < 15% Slopes

(G002XY004OR) *Hydric soil rating:* No

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Appendix F: Geotechnical Engineering Report from GeoPacific Engineering, Inc.



Real-World Geotechnical Solutions
Investigation • Design • Construction Support

October 4, 2022 Project No. 22-6110

AKS Engineering and Forestry, LLC Jonathan Morse, P.E. 12965 SW Herman Road, Suite 100 Tualatin, OR 97062 Phone: (503) 563-6151

Phone: (503) 563-6151 Email: jonm@aks-eng.com

SUBJECT: INFILTRATION TEST RESULTS

1686 19TH STREET

TAX LOT 31E03AA 1600 & 1700

WEST LINN, OREGON

This letter presents the results of a geotechnical engineering study conducted by GeoPacific Engineering, Inc. (GeoPacific) for the above-referenced project. The purpose of our study was to conduct infiltration testing at the site and provide design recommendations for stormwater management.

This letter presents the results of soil infiltration to aid on-site stormwater management system design. On September 6, 2022, GeoPacific Engineering, Inc. (GeoPacific) logged and sampled two exploratory soil borings to a depth of 30 feet below the ground surface (bgs) at 1686 19th Street. The approximate locations of the borings are indicated on Figure 1. Design of the stormwater management systems is to be completed by others.

SITE AND PROJECT DESCRIPTION

As shown on Figures 1, the subject site is located at 1686 19th Street in the City of West Linn, Oregon. The property is approximately 0.5 acres in size and rectangular in shape. Topography is flat to gently sloping down to the north. The site is currently occupied by a single-family dwelling and associated structures. Vegetation onsite consists of landscaped grasses and shrubs and medium-sized trees.

We understand that it is desired to incorporate infiltration into the plans to aid in stormwater disposal.

Geotechnical Infiltration Report GeoPacific Project No. 22-6110, 1686 19th Street, West Linn, Oregon

REGIONAL GEOLOGIC SETTING

Regionally, the subject site lies within the Willamette Valley/Puget Sound lowland, a broad structural depression situated between the Coast Range on the west and the Cascade Range on the east. A series of discontinuous faults subdivide the Willamette Valley into a mosaic of fault-bounded, structural blocks (Yeats et al., 1996). Uplifted structural blocks form bedrock highlands, while down-warped structural blocks form sedimentary basins.

According to the Geologic framework of the Willamette lowland aquifer system, Oregon and Washington, (United States Geological Survey, Gannett, M.W., and Caldwell, R.R. 1998), the site is underlain by Quaternary-aged (last 1.6 million years) lacustrine deposits consisting of unconsolidated gravel, sand, and silt (Qs), generally referred to as catastrophic flood deposits, and referred to as the Willamette Formation in some geological maps. The catastrophic flood deposits are associated with repeated glacial outburst flooding of the Willamette Valley (Yeats et al., 1996). The last of these outburst floods occurred about 10,000 years ago. This material is poorly to moderately sorted (Madin, 1990).

Underlying the catastrophic flood deposits are Miocene-aged (approximately 23 to 5 million years ago) Columbia River basalt flows, which consist of phyric basalt and basaltic-andesite flows erupted eastern Oregon, Washington, and Idaho, (Tcr). The basalts are generally composed of dense, finely crystalline rock that is commonly fractured along blocky and columnar vertical joints. The Web Soil Survey (United States Department of Agriculture, Natural Resource Conservation Service (USDA NRCS 2022 Website), indicates that near-surface soils consist of the Willamette Silt Loam soil series. Willamette series soils generally consist of moderately well-drained terrace deposits.

SOIL CONDITIONS

In our borings, we encountered approximately 5 inches of topsoil, consisting of brown Organic SILT (OL-ML) with fine roots throughout, at the ground surface. The topsoil was underlain by native Catastrophic Flood Deposits, which consisted of brown, soft to stiff SILT with Sand (ML). The SILT with Sand (ML) graded to Silty SAND (SM) at depths of approximately 20 and 7.5 feet bgs in borings B-1 and B-2, respectively. This soil type extended beyond the maximum depth of our exploration (7 feet).

Groundwater and Soil Moisture

On September 6, 2022, observed soil moisture conditions were generally damp to moist. Groundwater was not observed in our soil borings to a maximum depth of 21.5 feet bgs. Regional geologic mapping indicates that static groundwater is present at a depth of 65 and 75 feet below the existing ground surface (Snyder, 2008). It is anticipated that groundwater conditions will vary depending on the season, local subsurface conditions, changes in site utilization, and other factors. Perched groundwater may be encountered in localized areas. Seeps and springs may exist in areas not explored and may become evident during site grading.



INFILTRATION TESTING

Soil infiltration testing was performed in borings B-1 and B-2 using the open hole falling head testing method. Infiltration testing was conducted at depths of approximately 20 and 7.5 feet below the ground surface in the native silty sand.

The soils were presoaked prior to infiltration testing. During testing, we measured the water level to the nearest 0.01 foot (1/8 inch) from a fixed point and the change in water level was recorded at regular intervals until three successive measurements showing a consistent infiltration rate were achieved. At 20 feet bgs in boring B-1 and at 7.5 feet bgs in boring B-2, we observed infiltration rates of 0 and 1.4 inches per hour, respectively. The infiltration rates have been reported without applying a factor of safety. Care should be taken when estimating infiltration capacity at the site.

Boring ID	Depth (ft)	Infiltration Rate (in/hr)
B-1	20	0.0
B-2	7.5	1.4

CONCLUSIONS AND RECOMMENDATIONS

We understand that plans for project development may include stormwater management facilities, and that it is desired to incorporate subsurface disposal of stormwater. Based on the results of our infiltration testing, The SILT observed above 7 feet and the Silty SAND (SM) observed below 17 feet exhibits an infiltration rate of nearly 0 inches per hour. The Silty SAND (SM) observed between 7 and 17 feet exhibits an infiltration rate of approximately 1.4 inches per hour

Stormwater management systems should be constructed as specified by the designer and/or in accordance with the applicable stormwater design codes. The infiltration rates presented in this report do not incorporate a factor of safety. All systems should include an adequate factor of safety. Stormwater exceeding soil infiltration and/or soil storage capacities will need to be directed in a controlled manner to a suitable surface discharge location, away from structures.



UNCERTAINTIES AND LIMITATIONS

This scope of this study includes measuring infiltration rates only. Rates of infiltration that were affected by impermeable soils or groundwater seepage were not reported. This study did not include risk assessment for geologic hazards or flooding on the site. Environmental implications of stormwater disposal or ODEQ approval at this site are also beyond the scope of this report.

Infiltration test methods and procedures attempt to simulate the as-built conditions of the planned subsurface disposal system. However, due to natural variations in soil properties, actual infiltration rates may vary from the measured and/or recommended design rates. All systems should be constructed such that potential overflow is discharged in a controlled manner away from structures, and all systems should include an adequate factor of safety. Infiltration rates presented in this report should not be applied to inappropriate or complex hydrological models such as a closed basin without extensive further studies. This report presents infiltration test results only and should not be construed as an approval of a system design.

Please call if you have any questions or need further information.

Sincerely,

GeoPacific Engineering, Inc.

tel Cent

Alexandria B. Campbell, E.I.

Engineering Staff

James D. Imbrie, P.E.

EXPIRES: 06/30/20 23

Principal Engineer

Attachments: Figure 1 – Site Aerial and Exploration Locations

Boring Logs

Laboratory Test Results

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SITE AERIAL AND **EXPLORATION LOCATIONS**



GEOPACIFIC Portland, Oregon 97224

14835 SW 72nd Avenue

Tel: (503) 598-8445 Fax: (503) 941-9281

BORING LOG

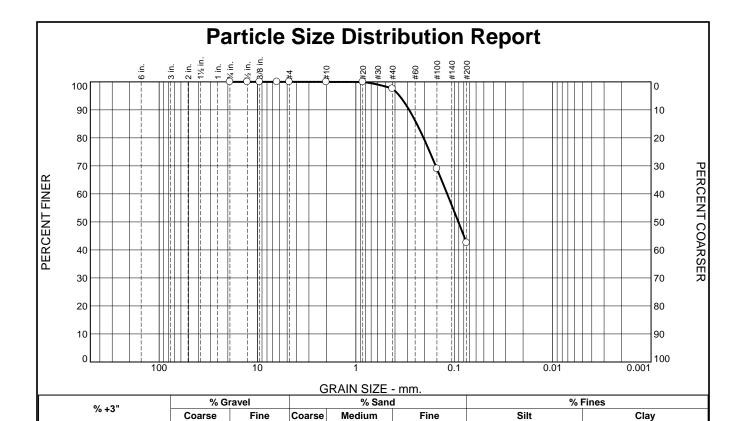
Project: 1686 19th Street

Project No. 21-6110

Boring No. **B-1**

1 10		West I	Linn, C		า		Project No. 2	21-6110	Boring No. B-1
Depth (ft)	Sample Type	N-Value	Well Con- struction	Moisture Content (%)	Water Bearing Zone		Material Description		
		7					·	. – – – – – -	ghout, damp (Topsoil) np (Catastrophic Flood Deposits)
10 —		4 5				Grades to san			
15 — — — — — — — 20 —		11 8				Grades to med		very moist (Ca	
25—		10				Infiltration test		20 feet bgs. Int	filtration rate measured as 0 in/hr
30-		29				Grades to coa	rse sand and med	lium dense	
35—						Moisture o	No groundwater conditions below 2		above 21.5 feet bgs not be determined due to water
1,00	ID O to O g	Split-S	Spoon	Shelby Tu	o ube Sam	_ ▼ _ Static Water T: ple at Drilling	able Static Water Table	Water Bearing Zone	Date Drilled: 09/06/22 Logged By: ABC Surface Elevation:

TEOPHCIFIC 14835 SW 72nd Avenue Portland, Oregon 97224 Tel: (503) 598-8445 Fax: (Dregon 97224	503) 941-9281		BORING LOG		
Pro	ject:	1686 ′ West I	19th St Linn, C	reet)regor			Project No. 21-	-6110	Boring No.
Depth (ft)	Sample Type	N-Value	Well Con- struction	Moisture Content (%)	Water Bearing Zone		Material Description		
5 —		6					d (ML), brown, mediu		ghout, damp (Topsoil) st (Catastrophic Flood Deposits)
10 — - - - - -		7 5				Silty SAND (SM), brown, loose, moist (Catastrophic Flood Deposits) Infiltration testing conducted at 7.5 feet bgs. Infiltration rate measured as 1.4 in/hr Water added to boring to aid in drilling			
15 — — — — —		6							
20— — — —		7							
25— — — — —		12				Grades to coa	irse sand		
30— —		25				Grades to med	dium dense		
35— 						Moisture o	No groundwater er		above 11.5 feet bgs not be determined due to water
1,0	ND Oo to 000 g Sample	Split-S	Spoon	Shelby Tu	ube Sam	Static Water Tople at Drilling	10-20-99 ———————————————————————————————————	ater Bearing Zone	Date Drilled: 09/06/22 Logged By: ABC Surface Elevation:



Test F	Test Results (AASHTO T 27 & AASHTO T 11)					
Opening	Percent	Spec.*	Pass?			
Size	Finer	(Percent)	(X=Fail)			
.75	100.0					
.5	100.0					
.375	100.0					
.25	100.0					
#4	100.0					
#10	100.0					
#20	99.9					
#40	97.6					
#100	69.0					
#200	42.6					
* /	.6	1				

0.0

0.0

0.0

2.4

55.0

Native Silty Sand	Material Descrip	tion			
	berg Limits (AST	M D 4318)			
PL=	LL=	PI=			
USCS (D 2487)=	Classification AASHTC	<u>1</u>) (M 145)=			
D ₉₀ = 0.2875 D ₅₀ = 0.0909 D ₁₀ =	Coefficients D ₈₅ = 0.2405 D ₃₀ = C _u =	D ₆₀ = 0.1180 D ₁₅ = C _c =			
Remarks Moisture Content = 29.0%					
Date Received:	Date	Tested: 9.8.2022			
Tested By: $\underline{\mathbf{T}}$	MM				
Checked By: _					
Title: _					

42.6

* (no specification provided)

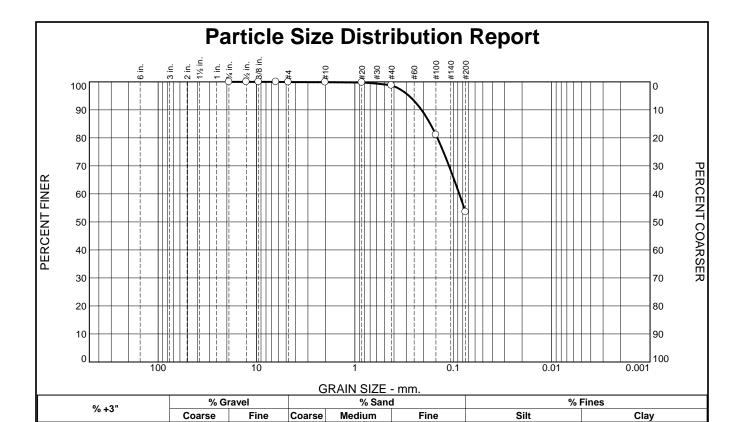
0.0

Location: B-1 Sample Number: S22-245 Depth: 20ft Depth: 20ft Date Sampled: 9.6.2022

GEOPACIFIC ENGINEERING, INC.

Client: AKS Engineering and Forestry **Project:** 1686 19th St Infiltration

Project No: 22-6110 Figure



45.2

0.0

0.1

Test Results (AASHTO T 27 & AASHTO T 11)					
Opening	Percent	Spec.*	Pass?		
Size	Finer	(Percent)	(X=Fail)		
.75	100.0				
.5	100.0				
.375	100.0				
.25	100.0				
#4	99.9				
#10	99.9				
#20	99.8				
#40	98.8				
#100	81.1				
#200	53.6				

0.0

Material Descrip	<u>ition</u>				
berg Limits (AST LL=	M D 4318) Pl=				
Classification AASHTC	<u>n</u> D (M 145)=				
Coefficients D ₈₅ = 0.1712 D ₃₀ = C _u =	D ₆₀ = 0.0870 D ₁₅ = C _c =				
Remarks Moisture Content = 21.3%					
Date	Tested: 9.8.2022				
MM					
	Classification AASHTO Coefficients D85= 0.1712 D30= Cu= Remarks 21.3%				

53.6

Date Sampled: 9.6.2022

(no specification provided)

0.0

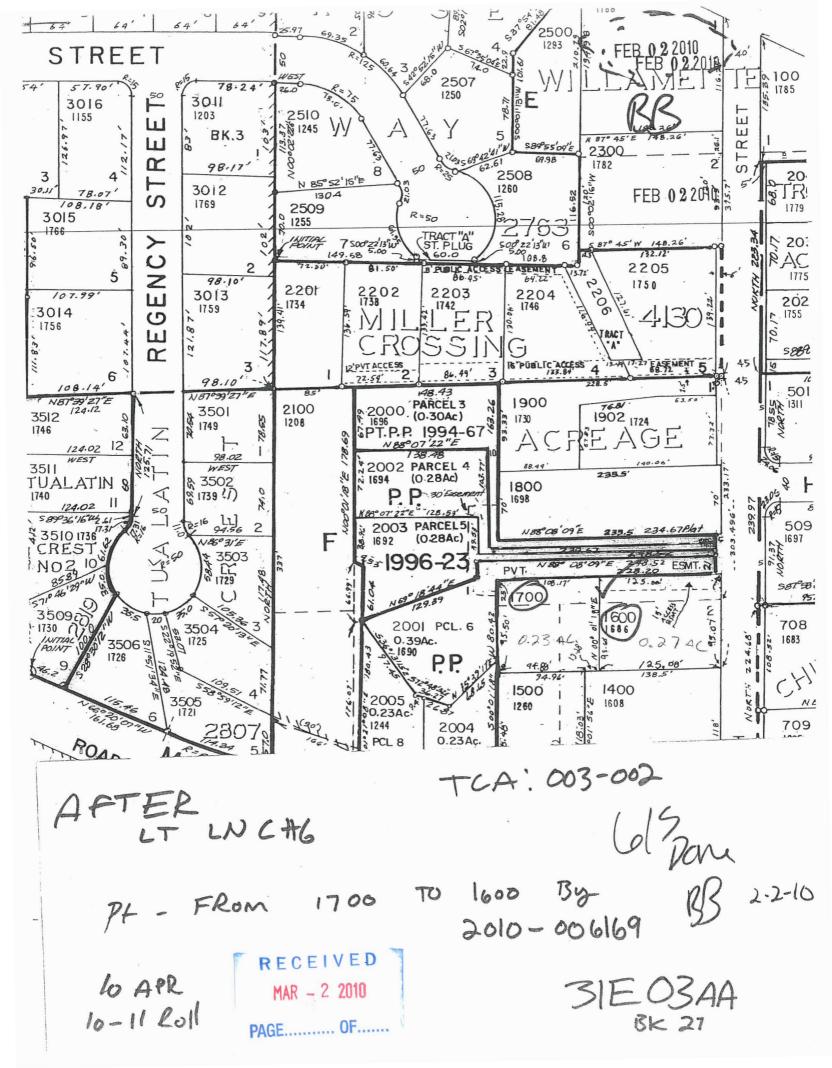
Location: B-2 Sample Number: S22-246 Depth: 7.5ft

GEOPACIFIC ENGINEERING, INC.

Client: AKS Engineering and Forestry **Project:** 1686 19th St Infiltration

Project No: 22-6110 Figure

PD-2 LLA-08-05



ASSOCIATED LAND SURVEYORS

375 Portland Ave., Gladstone, OR. 97027 Phone: (503) 656-9440

July 1, 2008

Project: 0809, PLA description, Westerly tract.

Description of a portion of Tax Lots 1600 and 1700 3 1E 03AA after adjustment.

A tract of land in the Northeast quarter of Section 3, Township 3 South, Range 1 East, Willamette Meridian, in the City of West Linn, Clackamas County, Oregon, being a portion of Tract "F", Willamette Falls Acreage Tracts described as follows:

Commencing at a 5/8 inch diameter iron rod at the Southeast corner of that tract of land described in Book 508 Page 598, Clackamas County deed records to Perdue, on the easterly right-of-way line of 19th. Street 20 feet at right angles from the center line thereof, thence, S87°53'33"W along the South line thereof a distance of 125.08 feet to the Point of Beginning of the tract of land herein described; thence continuing along said South line on said bearing a distance of 13.28 feet to a 5/8 inch diameter iron rod in said line as shown on map PS 26820, Clackamas County Survey Records; thence, S88°13'52"W continuing along said south line and the South line of that tract of land described in Book 518 Page 615 Clackamas County Deed Records to Perdue, a distance of 94.88 feet to a 5/8 inch diameter iron rod at the Southwest corner thereof; thence, N00°01'18"E along the West line thereof and the East boundary of Parcel 6 of Partition Plat No. 2000-061 a distance of 95.50 feet to an angle point in the boundary of said Parcel 6; thence; N88°08'09"E along the boundary of said Parcel 6 a distance of 108.17 feet; thence; S00°01'18"W parallel with the herein described west boundary line a distance of 95.60 feet to the Point of Beginning. Containing 10,330 square feet.

Along with a private non-exclusive easement 15 feet in width for access and utilities over the North 15 feet of the following described property lying adjacent to and East of the above described property;

A tract of land in the Northeast quarter of Section 3, Township 3 South, Range 1 East, Willamette Meridian, in the City of West Linn, Clackamas County, Oregon, being a portion of Tract "F", Willamette Falls Acreage Tracts described as follows:

Beginning at a 5/8 inch diameter iron rod at the Southeast corner of that tract of land described in Book 508 Page 598, Clackamas County Deed Records to Perdue, on the easterly right-of-way line of 19th. Street 20 feet at right angles from the center line thereof; thence, S87°53'33"W along the South line thereof a distance of 125.08 feet to the Point of Beginning of the tract of land described above; thence, Northerly along the East line of the of the above described property to the Northeast corner thereof on the boundary of Parcel 6, Partition Plat No. 2000-061; thence, N88°08'09"E along the said boundary and the Easterly extension thereof a distance of 125 feet to the West right-of-way line of 19th. Street, 20 feet at right angles from the center line thereof; thence, S00°01'01"W along said line a distance of 95.06 feet to the point of beginning.

ASSOCIATED LAND SURVEYORS

375 Portland Ave., Gladstone, OR. 97027 Phone: (503) 656-9440

July 1, 2008

Project: 0809, PLA description, Easterly tract.

Description of a portion of Tax Lots 1600 and 1700 3 1E 03AA after adjustment.

A tract of land in the Northeast quarter of Section 3, Township 3 South, Range 1 East, Willamette Meridian, in the City of West Linn, Clackamas County, Oregon, being a portion of Tract "F", Willamette Falls Acreage Tracts described as follows:

Beginning at a 5/8 inch diameter iron rod at the Southeast corner of that tract of land described in Book 508 Page 598, Clackamas County deed records to Perdue, on the easterly right-of-way line of 19th. Street 20 feet at right angles from the center line thereof, thence, S87°53'33"W along the South line thereof a distance of 125.08 feet; thence, N00°01'18"E a distance of 95.60 feet to the boundary line of Parcel 6, Partition Plat No. 2000-061, Clackamas County Plat Records; thence, N88°08'09"E along the boundary of said Parcel 6 and the Easterly extension thereof a distance of 125.00 feet to the said West right-of-way line of 19th. Street; thence, S00°01'01"E along said line a distance of 95.07 feet to the Point of Beginning. Containing 11,913 square feet.

Subject to a private non-exclusive easement for access and utilities over the North 15 feet thereof for the benefit of the adjoining property to the West.

perduepla.lgl

Record of Survey

CLACKAMAS COUNTY SURVEYOR

ACCEPTED FOR FILING:

RECEIVED:

for a proposed property line adjustment A PORTION OF TRACT "F", WILLAMETTE FALLS ACREAGE TRACTS, IN THE NE 1/4 OF SECTION 3, T.3S., R.IE., W.M. CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON

SURVEY NUMBER: July 2008 Scale: 1"= 20' Surveyor's Legend and Notes: For George Perdue CITY OF WEST LINN LAND USE DECISION FILE NO. LLA-08-05 DENOTES FOUND DESCRIBED MONUMENT, STRAIGHT AND FLUSH WITH SURFACE, UNLESS STRAIGHT AND FLUSH WITH SURFACE, UNLE. NOTED OTHERWISE.

O DENOTES 5/8"X 30" IRON ROD WITH YPC INSCRIBED "ASSOC. LAND SURVEYORS INC." SET ON JULY 15, 2008 PARCEL 3, PARTITION PLAT NO. 1994-067 60d SPIKE WITH ALUMINUM WASHER STAMPED 'LS 1976' FLUSH IN ASPHALT ROAD PER PARTITION PLAT NO. 1996-023. HELD YPC - YELLOW PLASTIC CAP (1 1/4" DIA.) PARCEL 4, PARTITION PLAT NO. 1996-023 60d SPIKE WITH ALUMINUM WASHER STAMPED "LS 1976" FLUSH IN ASPHALT ROAD PER PARTITION PLAT NO. 1996-023. | R - RON ROD | DIA. IRON PIPE | D2 - BOOK 518 PAGE 615 |
| P - OUTSIDE DIA. IRON PIPE | D2 - BOOK 697 PAGE 838 |
| S7 - SOUARE FEET | D3 - BOOK 508 PAGE 598 |
| DN - DOWN | () - RECORD DATA PARCEL 5, PARTITION PLAT NO. 1996-023 (BASIS OF BEARINGS) 248.53' (248.52', PP) DN - DOWN FCP - FENCE CORNER POST 5/8" DIAMETER IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "COMPASS CORP." DN. 0.5", PER PARTITION PLAT NO. 1994—67 O.15" N. OF TRUE POSITION. 3' WEST OF WATER METER. PP - PARTITION PLAT NO. PARCEL 6. PARTITION PLAT NO. 2000-061 0+00 NE CORNER, BOOK 697 PAGE BJB SET BETWEEN WATER METER AND BACK OF CURB. 233.17' (233.20' PP, 233.50' D2) SET DIRECTLY UNDER 5/8" DIAMETER IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "COMPASS CORP." DN.0.5', PER PARTITION PLAT NO. 2000-061, PROPOSED 15' WIDE PRIVATE NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT FOR TRACT 2. CORNER, BOOK 697 PAGE 838 1" DIAMETER IP DN. 0.3' NO REFERENCE, 1.07" W. OF PROPERTY LINE. CHRRENT TAX LOT LINE PARCEL 6. PARTITION PLAT NO. 2000-061 TRACT 2 5/8" DIAMETER IRON ROD WITH YELLOW PLASTIC CAP INSCRIBED "COMPASS CORP." FLUSH, PER PARTITION PLAT NO. 2000–061, DIRECTLY UNDER FENCE RAIL SE CORNER.
BOOK 508 PAGE 598
5/8" DIAMETER IRON ROD
NO CAP, DN. 0.2' IN GRAVEL
PER PS 7064, 1.5"E. AND
0.5' S. OF WOOD FCP.
FENCE RUNS WEST. SW CORNER, BOOK 518 PAGE 615
POSITION FOR 5/8" DIAMETER
RRON ROD IN CONCRETE PER PS
26820. NOW HAS 5" TALL 1 1/2".
DIA. BRON PIPE SET OVER TOP.
WOOD FOP DIRECTLY AGAINST AND
N. OF I.P. SET DIRECTLY UNDER WOOD FENCE. "B" 94.88' (94.88', PS 26820) SAR*15'52"W POSITION FOR 5/8" DIAMETER BRON ROD IN CONCRETE PER PS 26820. NOW HAS 5" TALL 1 1/2". DIA. IRON PIPE SET OVER TOP. WOOD FENCE DIRECTLY AGAINST AND N. OF I.P. BOOK 553 PAGE 444 RECORDERS FEE NO. 97-052097 Surveyor's Narrative: THIS SURVEY WAS PERFORMED TO IDENTIFY THE EXTERIOR BOUNDARY OF THE PROPERTY CONVEYED TO GEORGE PERDUE AS DESCRIBED IN BOOK SOB PAGE 598, BOOK 518 PAGE 615 AND BOOK 697 PAGE 838 AND TO ILLUSTRATE AND MORNMENT THE PROPERTY LINE, DEWIS AN ADJUSTMENT TO THE CURRENT TAX LOT LINE BETTMENT TAX LOT LINE SET MEETED TAX LOT 1600 AND 1700, 3 TE JAA AS APPROVED BY THE CITY OF MEST LINE. THE METHODS USED TO ESTABLISH THE BOUNDARY WERE AS FOLLOWS. REGISTERED PROFESSIONAL LAND SURVEYOR FOR THE EAST LINE, I HELD POSTIONS "A", "8" AND MBB'08'09"E 5.00' FROM "C", WHICH IS A LINE 20' WEST OF THE CENTER LINE OF 19TH. STREET. THE NORTH LINE WAS ESTABLISHED 21' SOUTH OF LINE "C"—"D" AND EXTENDED EASTERLY TO INTERSECT WITH THE EAST LINE TO ESTABLISH THE NORTHEAST CORNER OF THE DESCRIBED PROPERTY. THE IRON ROD AT POSITION "E" WAS HELD FOR THE NORTHWEST CORNER OF SAID PROPERTY. OREGON JANUARY 19, 1982 KURTIS H. KUIPER City Approval: CITY OF WEST LINN LAND USE DECISION FILE NO. LLA-08-05 1976 FOR THE SOUTH LINE, I HELD POSITION "B" AND THE RECORD COURSES WESTERLY AS ETABLISHED BY PS 28820, CLACKAMAS COUNTY SURVEY RECORDS. A FENCE HAS BEEN CONSTRUCTED BY THE CURRENT OWNER OF THIS PROPERTY (PEROUE) AND IS JUST INSIDE THE BOUNDARY LINE. PROJECT: 0809 SIGNED ON: THE WEST LINE WAS HELD BETWEEN POSITIONS "E" AND "F" AND EXTENDED SOUTHERLY TO INTERSECT WITH THE SOUTH PROPERTY LINE TO ESTABLISH THE SOUTHWEST PROPERTY CORNER. Planning Director PREPARED BY: BASIS OF BEARINGS FOR THIS SURVEY IS LINE "C"-"D", (N88'08'09"E) PER PARTITION PLAT NO. 2000-061. ASSOCIATED LAND SURVEYORS, INC. 5/8" DIAMETER IRON ROD UP 0.1' IN CONCRETE, 0.6' E. OF FCP. FOUND IN PS 26820.

375 PORTLAND AVE. GLADSTONE, OREGON 97027 PHONE: (503) 656-9440

PLANNING AND DEVELOPMENT PLANNING DIRECTOR'S LAND USE DECISION

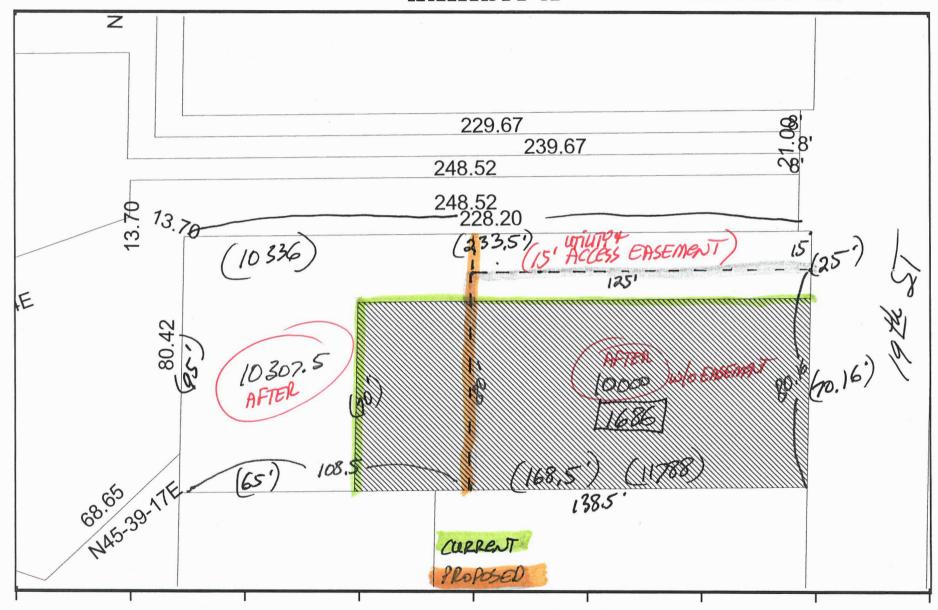
SUBJECT: LEGAL DESCRIPTION: LOCATION: OWNER: APPLICANT: ZONE: PLAN DESIGNATION:	LLA-08-05 LOT LINE A 31E03AA010 1686 19 TH S GEORGE P CHRIS SAK R-10 LOW DENS	TREET ERDUE YS
STAFF CHECKLIST:		
R.O.W.: UTILITY EASEMENTS: FLOOD PLAIN CONSTRU ADDITIONAL INFO:	N/A YES CTION: N/A	STREET & S/W IMPROVEMENTS: N/A SQ. FT.: OK WETLANDS & DRAINAGEWAYS: N/A
Based upon the approval crit Planning Director:	eria of the appl	licable Development Code section 85.210, the
APPROVED A	PPROVED W	TITH CONDITIONS DENIED
 FINAL LOT LINE THE CITY FOR AI ESTABLISH 15' AC EXISTING LOT – 1 I hereby declare to have no intinvolvement with the applican render an impartial decision. 	ROVED AS II ADJUSTMEN PPROVAL PR CCESS & UTI 1686 19 TH STR terest in the outcome t, the subject proper	LUSTRATED IN EXHIBIT 'A'. IT MAP SHALL BE SUBMITTED TO LIOR TO RECORDING. ILITY EASEMENT ON NORTH SIDE OF
6.11.08 DATE	BRYA	N BROWN, PLANNING DIRECTOR

Appeals of this decision must be filed with the West Linn Planning Department within 14 days of the date of mailing. Appeal cost is \$250 and must include specific grounds or basis for appeal.

P:\DR\DR ARCHIVES\LLA\LLA-08-02

EXHIBIT A

WEST LINN GIS

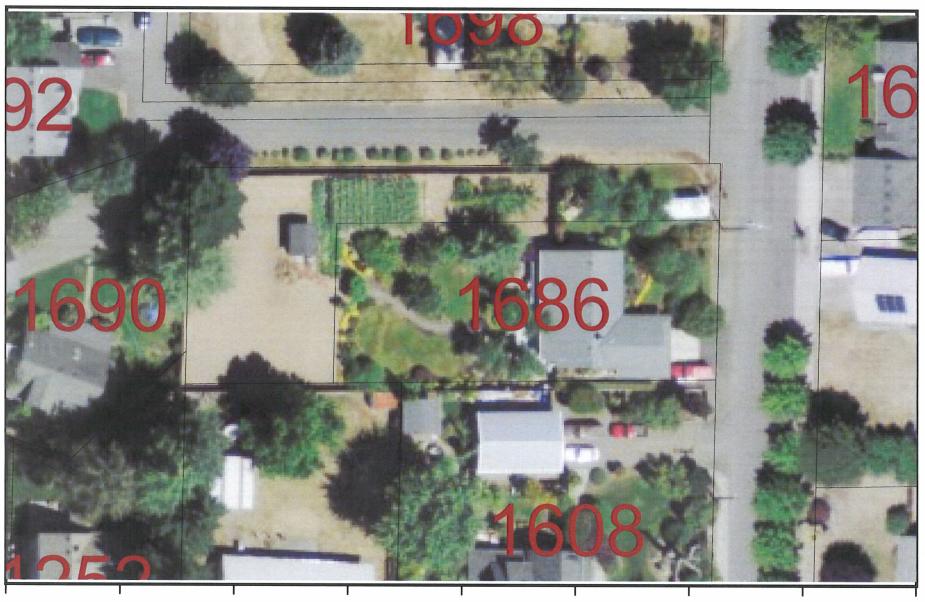


City of West Linn SnapMap, Geographic Information System, Date: 6/9/2008 MAP DISCLAIMER:

Scale: 042 Feet

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

WEST LINN GIS



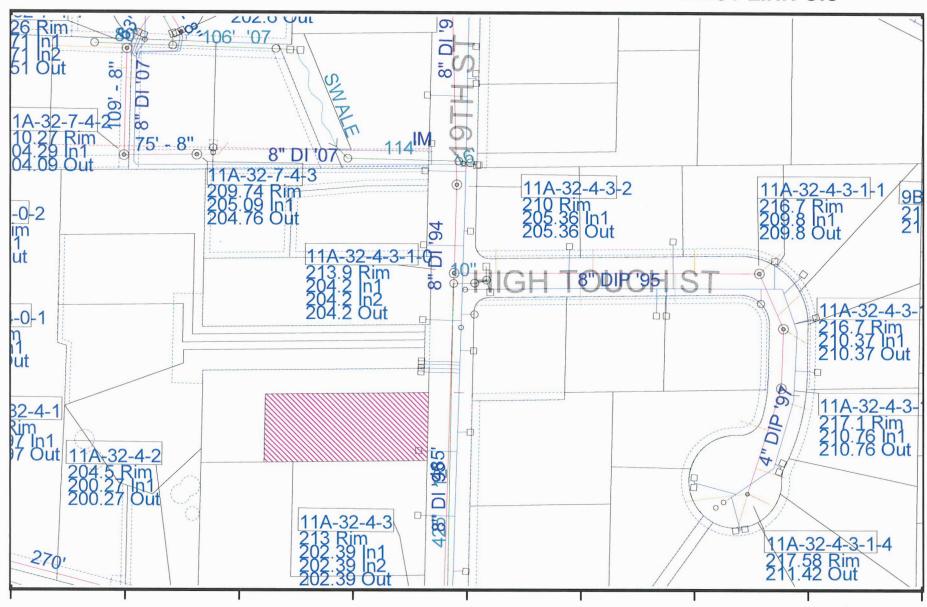
City of West Linn SnapMap, Geographic Information System, Date: 6/9/2008 MAP DISCLAIMER:

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes.

Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Scale: 050 Feet

WEST LINN GIS



City of West Linn SnapMap, Geographic Information System, Date: 5/12/2008 MAP DISCLAIMER:

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Scale: 117 Feet

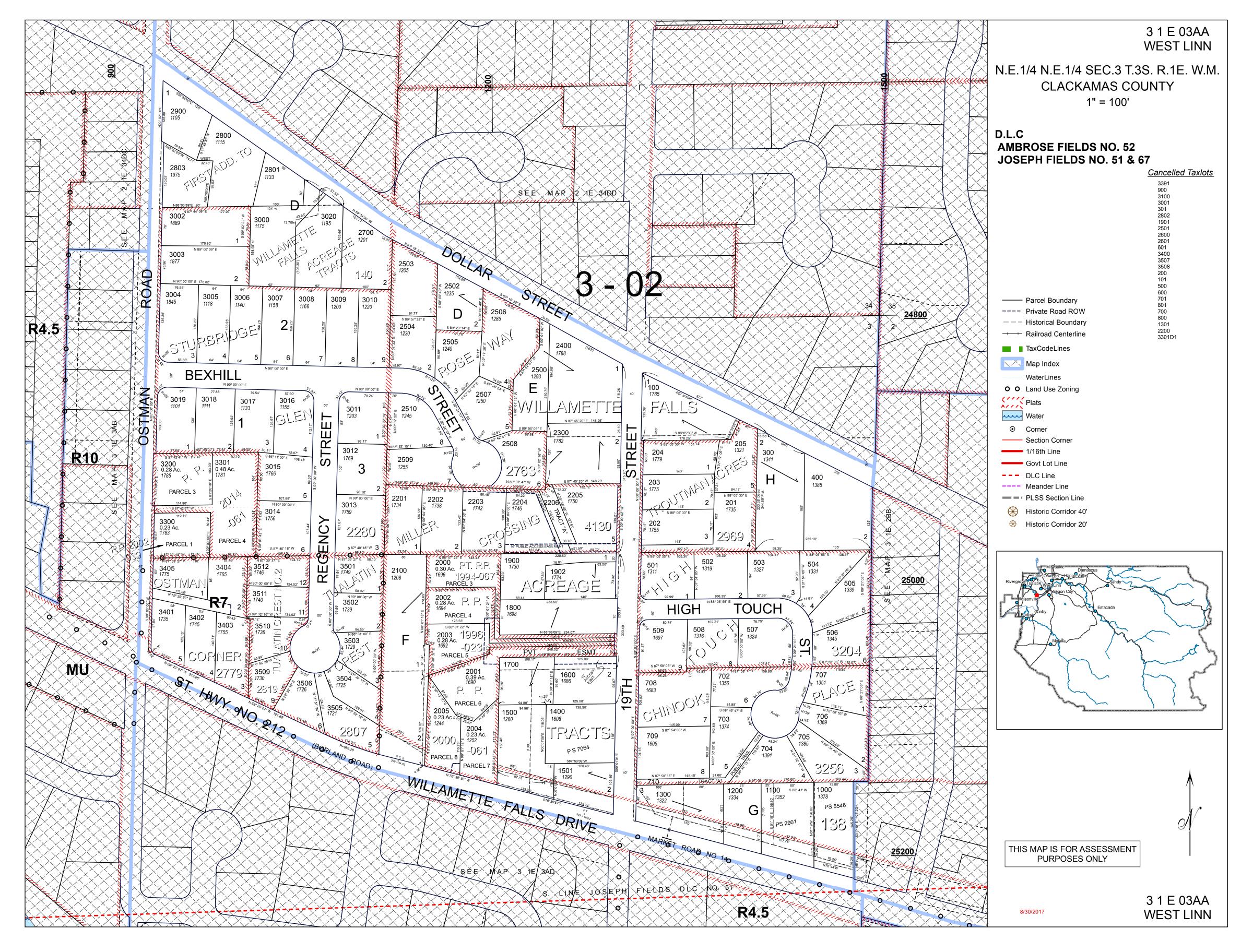
West Linn

APPLICATION LA -08-05

TYPE OF REVIEW (Please check all boxes that apply) :	
[] Annexation [] Non-Conforming Lots, Uses &	Structures
[] Appeal and Review] One-Year Extension	
[] Conditional Use] Planned Unit Development	
[] Design Review [] Pre-Application Meeting	
[] Easement Vacation [] Quasi-Judicial Plan or Zone Cl	hange
[] Extraterritorial Ext. of Utilities [] Street Vacation	
[] Final Plat or Plan] Subdivision	
[] Flood Plain Construction [J Temporary Uses	
[] Hillside Protection and Erosion Control [Subdivision	
[] Historic District Review [Tualatin River Greenway	
[] Legislative Plan or Change [] Variance	/717 .1 1
Lot Line Adjustment	Water Resource Area Protection	on/Wetland
[] Minor Partition (Preliminary Plat or Plan)	Willamette River Greenway	
L] Other/Misc	
Home Occupation/Pre-Application/Sidewalk Use Permit	/Permanent Sign Application/Temp	orary Sion Application
require individual application, forms available in the form		
K a	is and apparential section of only wee	once of at enty fran
TOTAL FEES/DEPOSIT		
		F 3 0F3 -
GEORGE PERDUE 1686 19TH ST	WESTLINN 97068	503.253.274
OWNER'S ADDRESS	CITY ŻIP	PHONE(res.& bus.)
SAME		
APPLICANT'S ADDRESS	CITY ZIP	PHONE(res.& bus.)
	and the contract of	503.522.7324
CONSULTANT ADDRESS	CITY ZIP	PHONE 3950
	CITT ZIF	PHONE 3930
SITE LOCATION (686 1974 ST W	EST LUN 9706	×
Assessor's Map No.: 31863AAO 1600 Tax Lot(s	s). I and the Total Land	d Area 22 200
1. All Tax No: ple (excl	luding deposits).	u Alca.
100,	e should be present at all public hearing	nos
	I. No permit will be in effect until the	
pei	a respectation and a second and a second	прреш
	y sets of application materials must	be submitted with this
	application materials must also be	submitted on CD in PDF
for		
The undersigned pages the fi	iling of this application, and authorize	es on site review
	code requirements applicable to my a	
		- Francisco
SIGNATURE OF PROPERTY OWNER(S)		
x Bench Ni Vandere	Date 5-69-200	08
1 John John Marie	Date	
SIGNATURE OF APPLICANT(S)	11 17	
X Deport U Perdue	Date	
RV SICNING THIS ADDITION THE CITY IS AUTTION		TIE DD ODERES
BY SIGNING THIS APPLICATION, THE CITY IS AUTHOR		9
ACCEPTANCE OF THIS APPLICATION DOES		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	" " " " " " " " " " " " " " " " " " "	/

PLANNING AND BUILDING; 22500 SALAMO RD #1000; WEST LINN, OR 97068; PHONE: 656-4211 FAX: 656-4106

PD-3 TAX MAP



PD-4 COMPLETENESS LETTER



November 9, 2022

Michael Trusheim 9400 SE Clackamas Road Clackamas OR. 97015

SUBJECT: LLA-22-06 application to adjust property line between 1686 19th Street (tax lot 1600) and tax lot 1700.

Mr. Trusheim:

You submitted this application on October 28, 2022. The Planning and Engineering Departments found all required information was submitted. The application has been deemed **complete**. The City now has 120 days to exhaust all local review. That period ends on March 9, 2023.

Please be aware that a determination of a complete application does not guarantee a recommendation of approval from staff for your proposal as submitted. It signals that staff believes you have provided the necessary information for the Planning Manager to render a decision on your proposal.

The Planning Manager's decision is pending. No notice is required per CDC 99.080 (E). Any appeals of the Planning Manager's decision will be heard by the City Council.

Please contact me at 503-742-6062, or by email at cmyers@westlinnoregon.gov if you have any questions or comments.

Sincerely,

Chris Myers

Chris Myers Associate Planner