

STORMWATER DRAINAGE CONTROL CERTIFICATE

Land Use Planning Division



www.multco.us/landuse ▪ Email: land.use.planning@multco.us ▪ Phone: (503) 988-3043

> 500 SQUARE FEET OF NEW / REPLACED IMPERVIOUS SURFACES

NOTE TO PROPERTY OWNER/APPLICANT: Please have an Oregon Licensed Professional Engineer fill out this Certificate and attach a signed site plan, stamped and signed storm water system details, and stamped and signed storm water calculations used to support the conclusion. Please note that replacement of existing structures does not provide a credit to the square footage threshold.

Property Address or Legal Description: 14443 NW Charlton RD Portland, OR 97231

Description of Project: Wireless Equipment Compound and Access Road (Vertical Bridge US-OR-5116)

The following stormwater drainage control system will be required:

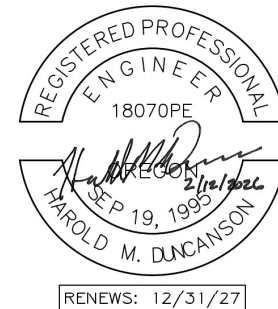
- ☐ Use of Gutter, downspout, and splash block drainage control system;
- ☒ Natural Infiltration Process; or Dispersion
- ☐ Construction of an on-site storm water drainage control system.

The rate of stormwater runoff attributed to the new/replaced development for a 10-year/24-hour storm event will be no greater than that which existed prior to any development as measured from the property line or from the point of discharge into a water body with the use of the designated system [MCC 39.6235].

I certify the attached signed site plan showing the areas needed for the chosen system type, stamped and signed storm water system design details, and stamped and signed calculations dated _____ will meet the requirements listed above.

Signature: 
Print Name: Harold Duncanson
Business Name: Duncanson Company, Inc.
Address: 145 SW 155th Street, #102, Burien, WA 98166
Phone #: 206-244-4141
Email: haroldd@duncansonco.com
Date: 2/12/2026

Engineer's Stamp Below:



NOTE TO ENGINEER: Please check one box above. Multnomah County does not use the City of Portland's storm water ordinance. As part of your review, MCC 39.6235 requires that you must consider all new, replaced, and existing structures and impervious areas and determine that the newly generated stormwater from the new or replaced impervious surfaces is in compliance with Multnomah County Code for a 10-year/24-hour storm event. This Storm Water Drainage Control Certificate does not apply to shingle or roof replacement on lawfully established structures.

§ 39.6235 STORMWATER DRAINAGE CONTROL.

(A) Persons creating new or replacing existing impervious surfaces exceeding 500 square feet shall install a stormwater drainage system as provided in this section. This subsection (A) does not apply to shingle or roof replacement on lawful structures.

(B) The provisions of this section are in addition to and not in lieu of any other provision of the code regulating stormwater or its drainage and other impacts and effects, including but not limited to regulation thereof in the SEC overlay.

(C) The provisions of this section are in addition to and not in lieu of stormwater and drainage requirements in the Multnomah County Road Rules and Design and Construction Manual, including those requirements relating to impervious surfaces and proposals to discharge stormwater onto a county right-of-way.

(D) The stormwater drainage system required in subsection (A) shall be designed to ensure that the rate of runoff for the 10-year 24-hour storm event is no greater than that which existed prior to development at the property line or point of discharge into a water body.

(E) At a minimum, to establish satisfaction of the standards in this section and all other applicable stormwater-related regulations in this code, the following information must be provided to the planning director:

(1) A site plan drawn to scale, showing the property line locations, ground topography (contours), boundaries of all ground disturbing activities, roads and driveways, existing and proposed structures and buildings, existing and proposed sanitary tank and drainfields (primary and reserve), location of stormwater disposal, trees and vegetation proposed for both removal and planting and an outline of wooded areas, water bodies and existing drywells;

(2) Documentation establishing approval of any new stormwater surcharges to a sanitary drainfield by the City of Portland Sanitarian and/or any other agency authorized to review waste disposal systems;

(3) Certified statement, and supporting information and documentation, by an Oregon licensed Professional Engineer that the proposed or existing stormwater drainage system satisfies all standards set forth in this section and all other stormwater drainage system standards in this code; and

(4) Any other report, information, plan, certification or documentation necessary to establish satisfaction of all standards set forth in this section and all other applicable stormwater-related regulations in this code, such as, but not limited to, analyses and explanations of soil characteristics, engineering solutions, and proposed stream and upland environmental protection measures.



DUNCANSON

Company, Inc.

DCI 99544.3054

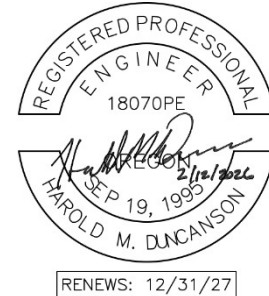
MEMO REPORT

To: Multnomah County Department of Community Services

From: Harold Duncanson

Date: 11/21/25(revised 2/12/26)

Subject: Verizon US-OR-5116—Sauvie
14443 NW Charlton RD
Portland, OR 97231
Runoff Calculation Summary



The Verizon Sauvie project involves construction of a wireless communication facility at the above referenced location. The project will convert approximately 9,500 SF (0.218 acre) of grass and forest area to crushed rock surface on a 3.5-acre parcel. Runoff from the new impervious surface will disperse and infiltrate over an average of over 100 feet of on-site forested area before reaching the downstream property line.

Attached are calculation results for the predeveloped and postdeveloped conditions for this project for the 10-year, 24-hour storm. The NRCS WinTR-55 computer program was used to perform the calculations, using a Type IA rainfall distribution and a 10-year precipitation of 3.4 inches. The results show no runoff for both the predeveloped and postdeveloped conditions. This is reasonable given the minor amounts of existing and proposed impervious, large proportion of vegetative cover and Class A soils.

Please call if you have any questions.

SURVEYING

LAND PLANNING

WinTR-55 Current Data Description

--- Identification Data ---

User: HMD Date: 2/12/2026
 Project: Sauvie Units: English
 SubTitle: Areal Units: Acres
 State: Oregon
 County: Multnomah
 Filename: C:\Users\dans\Desktop\Hydrocad\Sauvie.w55

--- Sub-Area Data ---

Name	Description	Reach	Area (ac)	RCN	Tc
Predev		Outlet	3.5	40	0.1
Postdev		Outlet	3.5	43	0.100

Total area: 7 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
2.4	2.9	3.4	3.8	.0	.0	.0

Storm Data Source: User-provided custom storm data
 Rainfall Distribution Type: Type IA
 Dimensionless Unit Hydrograph: <standard>

HMD

Sauvie

Multnomah County, Oregon

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
2.4	2.9	3.4	3.8	.0	.0	.0

Storm Data Source: User-provided custom storm data
Rainfall Distribution Type: Type IA
Dimensionless Unit Hydrograph: <standard>

HMD

Sauvie

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Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period			
	2-Yr (cfs)	5-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)

SUBAREAS				
Predev	.00	.00	.00	.00
Postdev	.00	.00	.00	.00
REACHES				
OUTLET	.00	.00	.00	.00

No Runoff, Pre- or
Post-development

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Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow 2-Yr (cfs) (hr)	and Peak Time (hr) 5-Yr (cfs) (hr)	by Rainfall Return Period 10-Yr (cfs) (hr)	25-Yr (cfs) (hr)
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SUBAREAS

Predev	.00	.00	.00	.00
	n/a	n/a	n/a	n/a

Postdev	.00	.00	.00	.00
	n/a	n/a	n/a	n/a

REACHES

OUTLET	.00	.00	.00	.00
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HMD

Sauvie

Multnomah County, Oregon

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
Predev	3.50	0.100	40	Outlet	
Postdev	3.50	0.100	43	Outlet	

Total Area:	7 (ac)				

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Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)

Predev							
User-provided							0.1
					Time of Concentration		0.1
						=====	
Postdev							
User-provided							0.100
					Time of Concentration		0.100
						=====	

HMD

Sauvie

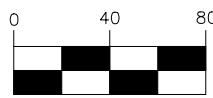
Multnomah County, Oregon

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
Predev	Open space; grass cover > 75%	(good)	A	1.517	39
	Gravel (w/ right-of-way)		A	.265	76
	Woods	(fair)	A	1.716	36
	Total Area / Weighted Curve Number			3.5 ===	40 ==
Postdev	Open space; grass cover > 75%	(good)	A	1.611	39
	Gravel (w/ right-of-way)		A	.483	76
	Woods	(fair)	A	1.405	36
	Total Area / Weighted Curve Number			3.5 ===	43 ==



GRAPHIC SCALE



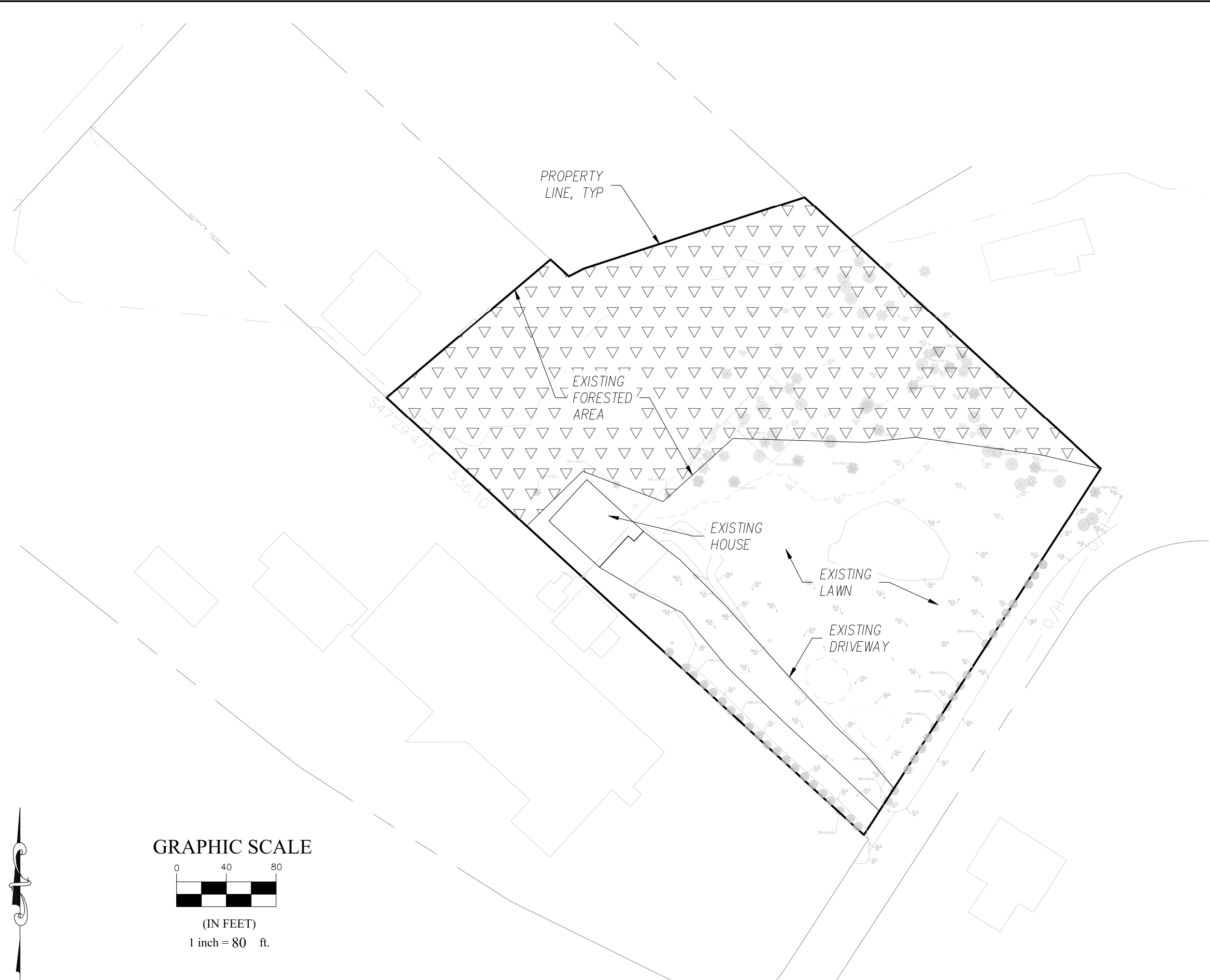
(IN FEET)
1 inch = 80 ft.



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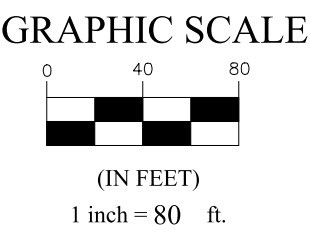
PARCEL MAP

Scale: 1"=80'	Drawn: DLS	Job No. 99544.3054
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AREAS

	SF	AC
TOTAL	152,394	3.498
FOREST	74,743	1.716
LAWN	66,086	1.517
IMPERVIOUS	11,565	0.265





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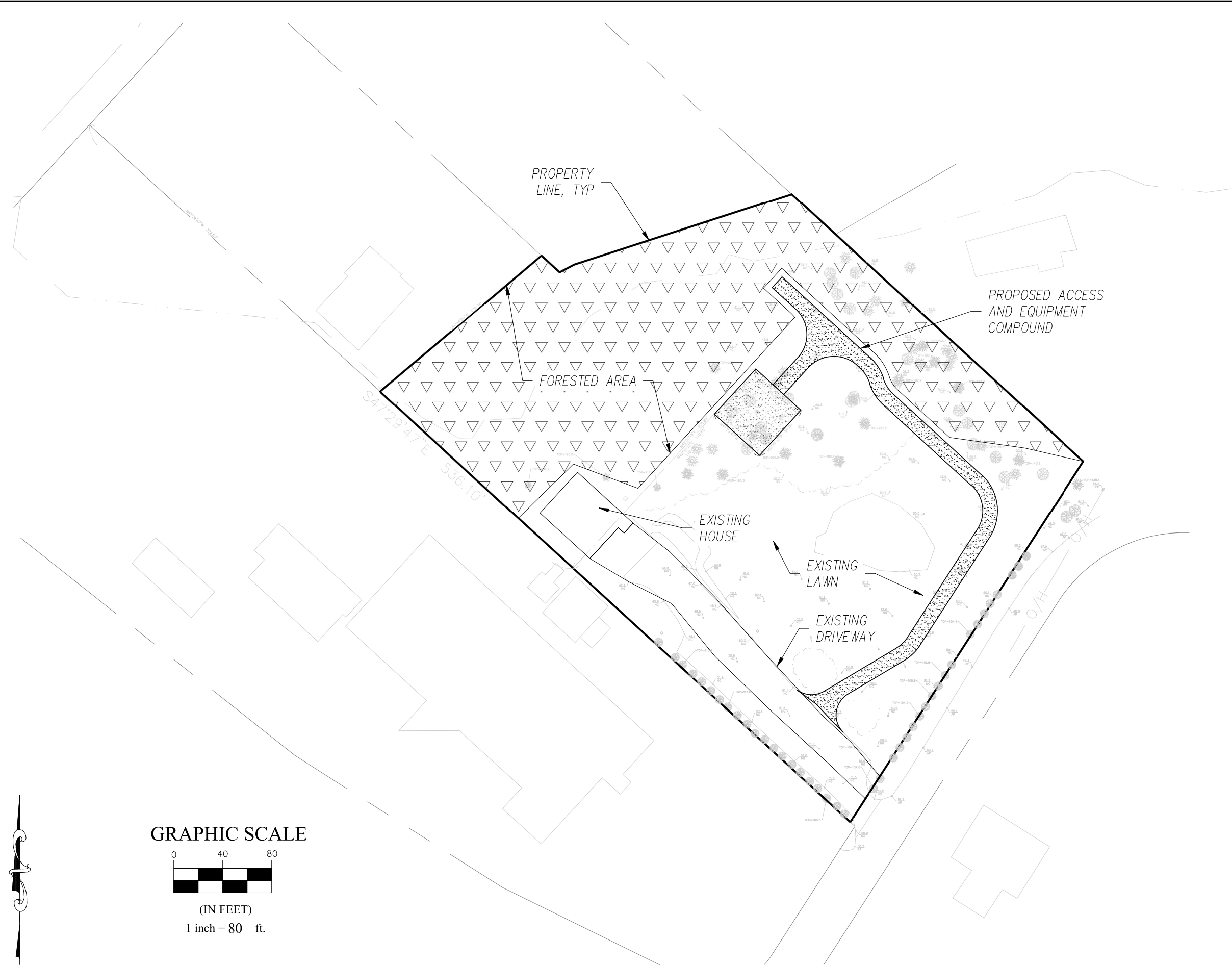
145 SW 155th Street, Suite 102
Seattle, Washington 98166
Phone 206.244.4141
Fax 206.244.4455

PRE-CONSTRUCTION

Scale: 1"=80'

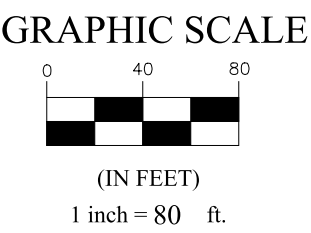
Drawn: DLS

Job No. 99544.3054



AREAS

	SF	AC
TOTAL	152,394	3.498
FOREST	61,196	1.405
LAWN	70,176	1.611
IMPERVIOUS	21,022	0.483





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POST CONSTRUCTION

Scale: 1"=80'

Drawn: DLS

Job No. 99544.3054