



Professional Forestry Services, Inc.

100 Ruby St. SE, Suite B
Tumwater, WA 98501
Phone (360) 943-1470

December 1, 2021

Jeff Pantier
Hatton Godat Pantier
3910 Martin Way E, Suite B
Olympia, WA 98506

Re: Tree Plan for Kirsop Crossing Division 3, City of Tumwater, Washington

Dear Mr. Pantier:

As you authorized, Professional Forestry Services, Inc. has inspected the trees on the site where the proposed project is to take place. The following information should satisfy your requirement for a tree plan, as needed for submission before land-clearing begins.

1. LOCATION

All trees involved are on portions of parcel 79900002400, which total 10.68 acres, and are within portions of the NE¼ of Section 5, T17N, R2W, W.M., Thurston County Washington.

2. TREES ON-SITE

Approximately 90% of the area is pastureland and buildings. Douglas-fir and associated species of Red Alder, Redcedar and others are scattered on the property.

The current inventory of trees on the site are:

Douglas-fir	106
Hemlock	8
Redcedar	11
True fir	1
Red Alder & Others	31
Total Trees On-site	= 157

3. TREES OFF SITE

There are no offsite trees to be impacted by this proposal.

4. TREES TO BE RETAINED

As outlined in Chapter 16.08.070R of the Tumwater Tree Ordinance, at least twelve trees per acre, or 20% of the trees on the site whichever is greater shall be retained. If this number cannot be met by existing trees, a 5% tree tract is required. Tract A (1.58 acres) and Tract C (.28 acres) are considered open space.

Required Trees: $10.43 \times 12/\text{acre} = 125$ Trees

Trees to be Retained On-Site:

Open Space Tract A = 35

Retained Trees = 35

Trees to be Mitigated: $125 - 35 = 90$

5. TREE TRACT REQUIREMENT

10.43 acres minus public right-of-way (1.52) minus wetland/buffer (1.58) =
 $7.33 \times .05 = .367$ acres **Required.**

Open Space Tracts on proposed Development:

<u>Tract</u>	<u>Acres</u>
A	1.58
C	0.28
Total Tree Tracts =	1.86 acres Planned

6. PROTECTION OF TREES BEING RETAINED

In our opinion, a four-foot high protection fence would protect the proposed trees from any entry by equipment. Six-foot steel fence posts need to be placed at 6-8' intervals along the fence to keep the fence erect during land-clearing.

7. ADDITIONAL TREES TO BE PLANTED

As currently planned, 270 additional trees (90 x 3) will need to be planted to meet the tree ordinance standards. Any trees to be planted on the individual lots and street trees will be addressed in the landscape plan, contracted by the developer. The 270 additional trees will be planted on the open space tracts.

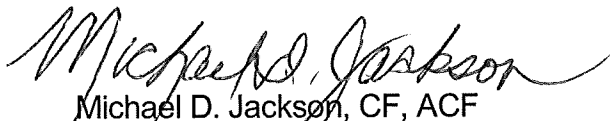
8. DEPARTMENT OF NATURAL RESOURCES PERMIT

All land clearing permits will need to be approved by City of Tumwater.

Once the land-clearing permit is approved by the City of Tumwater and **before land-clearing begins**, PFSI will meet on-site with the owner or owner's representative to make sure there is ample protection of the trees being retained.

If further information is needed in regard to the trees on this site, please contact us.

Sincerely,


Michael D. Jackson, CF, ACF
Professional/Certified Forester #1244

Enclosure: Map Exhibit I

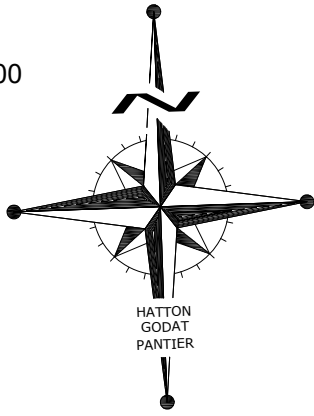
MDJ: dkd

KIRSOP CROSSING - DIV 3

6139 KIRSOP RD SW, TUMWATER, WA

PROJECT PROPONENT
ROB RICE
EVERGREEN HEIGHTS, LLC
1868 STATE AVENUE NE
OLYMPIA, WA 98506-4600
PH. (360) 754-7010

50 25 0 50 100
SCALE: 1" = 50'



CITY OF TUMWATER	
VERTICAL DATUM (NGVD 29) CITY OF TUMWATER BENCH MARK #1408 RAILROAD SPIKE IN POWER POLE AT NW CORNER AND 66TH AVE OF INTERSECTION OF KIRSOP RD. ELEVATION = 176.83	MERIDIAN (HORIZ DATUM) PLAT OF KIRSOP CROSSING RECORDED UNDER AUDITOR'S FILE NO. 4639030

DESIGNED BY: DL
DRAWN BY: DL
CHECKED BY: CC
DATE: NOVEMBER 2021
SCALE: 1" = 50'
V N/A

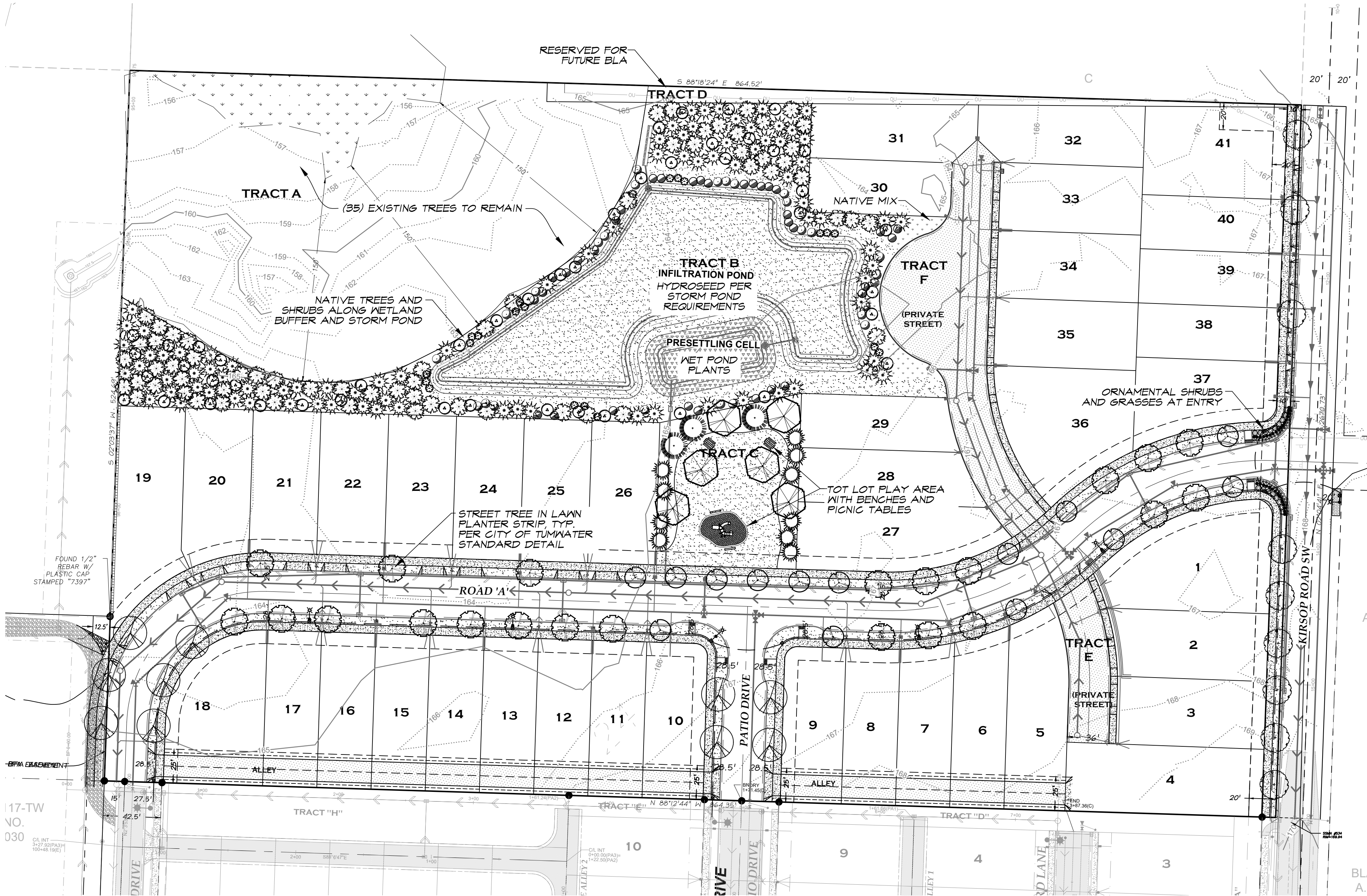


HATTON GODAT PANTIER
ENGINEERS AND SURVEYORS
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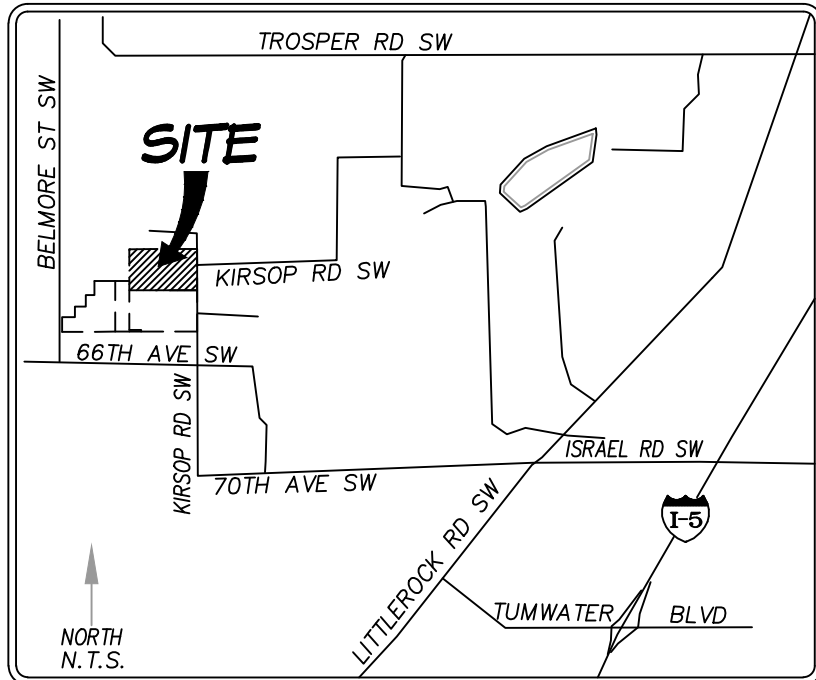
DATE: _____
REVISIONS: _____

KIRSOP CROSSING - DIV 3
6139 KIRSOP RD SW, TUMWATER, WA
PRELIMINARY
LANDSCAPE - TREE PLAN
A PORTION OF THE SE 1/4 OF SECTION 31 TOWNSHIP 18 NORTH, RANGE 1 WEST, W.M.

AGENCY NO. _____
SHEET: 1 OF 1
E:\landscape\19-000\19-073\
INDEX: 19-073 Prelim LS.dwg
JOB: 19-073



TREE SUMMARY
AS OUTLINED IN CHAPTER 16.08.07 OF THE TUMWATER TREE ORDINANCE, AT LEAST 20% OF THE TREES ON THE SITE OR 12 TREES PER ACRE, WHICHEVER IS GREATER, SHALL BE RETAINED. ALSO, 5 PERCENT OF THE AREA MUST BE DESIGNATED AS 'TREE PROTECTION OPEN SPACE'.
TREE TRACT 'A' 1.56 ACRES AND TRACT 'C' 0.28 ACRES = 1.84 ACRES
10.43 ACRES - R.O.W (1.52 AC) - NET. BUFFER (1.50) = 7.33 X .05 = .367 AC. REQUIRED
12 X 10.43 ACRES = 125 TREES REQ.
EX. TREES IN TRACT 'A' = 35
125 - 35 (RETAINED) = 90 TREES TO BE MITGATED
ADDITIONAL TREES TO BE PLANTED = 90 X 3 FOR EACH TREE = 270
19 TRACT 'C' TREE PROTECTION OPEN SPACE
146 TRACT 'B' STORM TRACT
55 STREET TREES
270 TREES TOTAL



PRELIMINARY PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	QTY.
	STREET TREES				
	Acer t. x. Ap. 'Warrenred'	Pacific Sunset Maple	2" CAL.	B&B	22
	Tilia Cordata 'Halka'	Summer Sprite Linden	2" CAL.	B&B	9
	Malus x 'Prairifire'	Prairifire Crabapple	2" CAL.	B&B	14
	Fraxinus excelsior 'Golden Desert'	Golden Desert Ash	2" CAL.	B&B	10
	OPEN SPACE TREES				
	Cercidophyllum japonicum	Katsura Tree	2" CAL.	B&B	6
	OPEN SPACE TREES				
	Calocedrus decurrens	Incense Cedar	6'-7" HT.	B&B	3
	Chamaecyparis nootkatensis 'Pendula'	Weeping Alaskan Cedar	6'-7" HT.	B&B	10
	STORM TRACT TREES				
	Acer circinatum	Vine Maple	6'-7" HT.	B&B	46
	Thuja plicata	Western Red Cedar	6'-7" HT.	B&B	64
	Pseudotsuga menziesii	Douglas Fir	6'-7" HT.	B&B	86
	OPEN SPACE/ENTRY SHRUBS				
	Nandina dom. 'Gulf Stream'	Gulf Stream Nandina	3 GAL.		17
	Pennisetum a. 'Hameln'	Dwarf Fountain Grass	1 GAL.		32
	Heimerocallis	Daylily	1 GAL.		36
	STORM TRACT SHRUBS				
	Cornus stolonifera	Red-Twig Dogwood	3 GAL.		21
	Physocarpus capitatus	Pacific Ninebark	5 GAL.		28
	Vaccinium ovatum	Evergreen Huckleberry	5 GAL.		32
	NATIVE MIX				
	Arctostaphylos uva-ursi	Kinnikinnick	1 GAL	36" O.C.	35
	Gaultheria shallon	Evergreen Salal			35
	Mahonia repens	Low Oregon Grape			35
	Iris pseudacorus	Yellow Flag	PLUGS	24" O.C.	200
	Sagittaria latifolia	Arrowhead			200
	Scirpus acutus	Bulrush			200
	Carex obnupta	Sedge			200
	Juncus effusus	Rush			200

NOTES:
1. AN IRRIGATION SYSTEM PROVIDING FULL COVERAGE IN ALL LAWN AND SHRUB AREAS SHALL BE INCLUDED IN THIS PROJECT.
2. LANDSCAPING AND IRRIGATION SYSTEM SHALL BE PROFESSIONALLY MAINTAINED FOR THE LIFE OF THIS PROJECT.
3. FINAL PLANT QUANTITIES AND LOCATIONS WILL BE DETERMINED BY FINAL APPROVED LANDSCAPE PLAN

TOPOGRAPHIC NOTE:
THE EXISTING TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, HGP CANNOT ENSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

CONSTRUCTION STAKING:
THIS PROJECT MUST BE STAKED PRIOR TO CONSTRUCTION BY THE DESIGN ENGINEER OR A LICENSED LAND SURVEYOR.
RECORD DOCUMENTS:
THE CONTRACTOR SHALL FURNISH HATTON GODAT PANTIER WITH A DRAWING(S) SHOWING THE CHANGES HE/SHE HAS MADE TO THE DESIGN DRAWING(S).

THIS DRAWING DOES NOT REPRESENT A RECORD DOCUMENT, UNLESS CERTIFIED BY HATTON GODAT PANTIER.
ANY ALTERATIONS TO THE DESIGN SHOWN HEREON MUST BE REVIEWED AND APPROVED BY HATTON GODAT PANTIER.

NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.