



October 19, 2021 – Revised – November 24, 2024

Attention: Sukhmeet Grewal – Residential Developer

RE: Arborist Assessment – Tree Protection Plan (TPP) – Revised Oct 2021

Location – 6922 Saanich X Road, Central Saanich – Subdivision

Figure #1 – Tree Inventory – Revised Aug 7, 2023 – SSFC mmbu

Southshore Forest Consultants										
APPENDIX A - TREE INVENTORY/HAZARD RATINGS SUMMARY										
Location: 6922 Saanich Cross Rd- Residential Subdivision							May 17 2021 & Oct 14 2021		Page #: 1	
Conditions: Clear, partly cloudy, 14 degrees +/- 1, dry, mild wind 2-7 km										
TAG #	Spec.	DBH (cm)	Ht (m)	PRZ (m)	Cond. G,F,P	Impact L,M,H	Bylaw Protected	Retain	Remove	Comments/Recommendations
476	W Cedar	28	10	4	F/P	L	No		X	Lot #1- Driveway Excavation - Moderate impact - Remove due to intolerance
477	W Cedar	26	10	4	F/P	L	No		X	Lot #1- Driveway Excavation - Moderate impact - Remove due to intolerance
478	W Cedar	26	10	4	F/P	L	No		X	Lot #1- Driveway Excavation - Moderate impact - Remove due to intolerance
479	W Cedar	58	18	7	F/P	L/M	No	X		2X stem- private property- retain and protect - PA to monitor excavation
480	D Fir	71	33	9	F/F	L/M	Yes	X		Private tree- retain and protect - PA to monitor excavation
481	D Fir	90	35	11	F/F	M/H	Yes		X	Footprint tree - high impact - remove to grade
482	D Fir	52	28	7	F/F	M/H	No		X	High impact - remove
483	Cherry	15	7	3	F/F	L/M	No	X		On private property- retain & protect - to be preserved
484	Spruce	29	16	4	F/F	M/H	No		X	Footprint- high impact- remove
485	Spruce	37	16	5	F/F	M/H	No		X	Footprint- high impact- remove
486	G Fir	61	26	8	F/F	M/H	Yes		X	Footprint- SRW (road dedication)- high impact- remove to grade
487	Plum	28	5	4	F/P	H	No	X		3x stem, SRW- Retain & Protect
488	Plum	36	8	5	F/P	H	No		X	5x stem- SRW- high impact remove to grade
489	D Fir	95	34	12	F/P	H	Yes		X	2x stem-high impact, remove to grade
490	D Fir	67	29	8	F/P	H	Yes		X	Topped tree- co-dominate top- high impact- remove
491	D Fir	54	29	7	F/P	H	No		X	High impact- remove- topped tree
492	BL Maple	39	17	5	F/P	H	No		X	High impact- remove to grade- 2x stem
493	BL Maple	38	17	5	F/P	H	No		X	High impact- remove to grade- 2x stem
494	BL Maple	74	20	6	F/P	H	Yes		X	High impact- remove to grade- 2x stem



TAG #	Spec.	DBH (cm)	Ht (m)	PRZ (m)	Cond. G,F,P	Impact	Bylaw	Retain	Remove	Comments/Recommendations
						L,M,H	Protected			
495	Plum	56	6	7	F/P	H	No		X	5x stem at pole- srw- high impact
496	D Fir	67	31	8	F/P	H	Yes		X	Direct impact
497	W Cedar	65	24	8	F/P	H	Yes		X	Direct impact
498	D Fir	84	34	10	F/F	H	Yes		X	SRW- road dedication- remove - direct impact
499	L Cypress	46	26	6	F/P	H	No		X	SRW- road dedication- remove - direct impact
500	L Cypress	53	27	7	F/P	H	No		X	SRW- road dedication- remove - direct impact
288	L Cypress	52	27	7	F/P	H	No		X	SRW- road dedication- remove - direct impact
289	D Fir	21	18	4	F/P	H	No		X	SRW- road dedication- remove - direct impact
466	D Fir	87	33	11	F/F	L/M	Yes		X	Lot #1- Remove - Mod/high impact expected
468	M Ash	36	6	5	F/P	L/M	No		X	2X stem- grade impacts - remove to grade, (non protected tree)

Tree Identification

D-fir = Douglas-fir (*Pseudotsuga menziesii*)

W cedar = Western cedar (*Thuja plicata*)

L cypress = Leyland cypress (*Cupressus x leylandii*)

Cherry = cherry species (*Prunus sp.*)

Spruce = spruce species (*Picea sp.*)

Plum = plum species (*Prunus sp.*)

G fir = grand fir (*Abies grandis*)

BL maple = bigleaf maple (*Acer macrophyllum*)

M ash = mountain ash (*Sorbus sp.*)

Twenty-five (25) trees identified for removal under existing proposal.

Trees in highlighted in red have been identified for removal.

Staging Area - Common property road and pre-constructed lots 2 & 3.

Tree Dynamics & Terms & Meanings

DBH - Diameter Breast Height - Calculated at 1.41 m above grade on tree stem

PRZ - Protected Root Zone, (calculated at a ratio of 1:18) 50cm DBH = 9m PRZ

CRZ - Critical Root Zone, (calculated at a ratio of 1:9) 60cm DBH = 5m CRZ

50cm DBH = 5m CRZ

Condition - P= Poor, F=Fair, G=Good

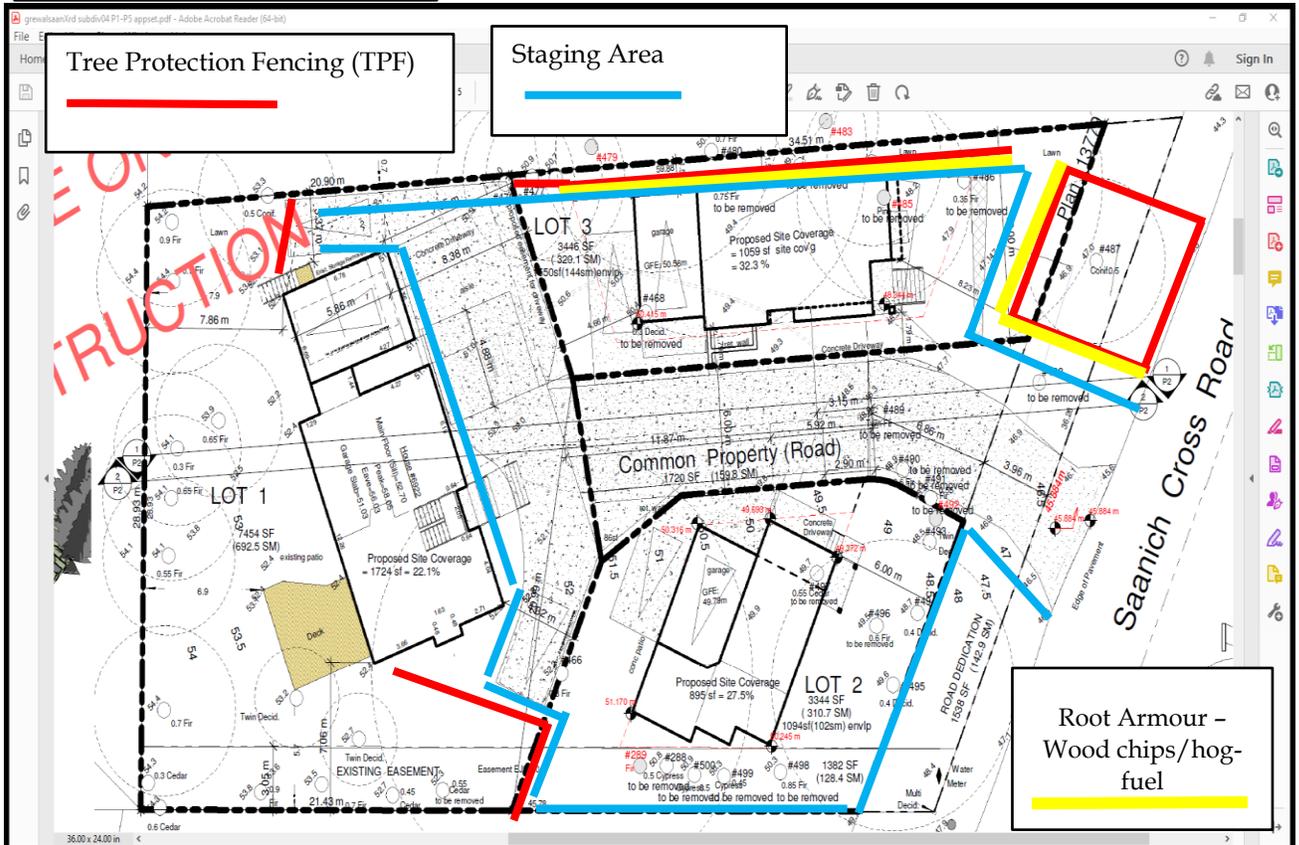
Footprint = Excavation edge along the outside of building envelope on grade. Over excavation is expected and can be up to a 1.5m distance from the outside of the proposed footprint edge.

Impact Zone = Constructive area, estimated at 0-1.5m outside the proposed building footprint.

Impact Levels - L (Low), M (Moderate), H (High)

P/A - Project Arborist

Figure #2 - Tree Site Map



The tree protection fencing shall be positioned as to provide protection within the Critical Root Zones (CRZ) of trees identified for preservation. We recommend that root armour in the form of woodchips/hog-fuel be placed around the perimeter of TPFing in Lot #3. This will further reduce soil and/or root compaction for trees #487, #479, #480 & #483.

Tree Protection Plan

- Provide Tree Protection Fencing as per Project Arborist Recommendations. Reference Figure #2 site map for approximate positioning of Tree Protection Fencing. Project Arborist to assist client with TPFing positioning.
- Utilize District of Central Saanich Tree Protection Fencing guidelines and ensure that the fence is posted with visible signage indicating “Tree Protection Zone” - “Do not Enter”.
- Provide Project Arborist to assess and supervise the utility install excavation events (storm, sewer and water alignment). Our assessment has indicated that possible impacts could occur within tree positioned over the north property line.
- Project Arborist to assess and notify District staff when TPF has been installed.
- Project arborist to assess the movement and positioning of TPF if temporary movement is required.

Impact Statement

- Our assessment of the site has indicated that approximately twenty-five (25) trees will be removed due to development impacts.
- Excessive grade and retaining wall construction will be required. Each impacting tree protected root zones our assessment indicates that many of these trees will be significantly impacted by the development and building phases of the project.
- Western cedar trees are intolerant to development impacts. Within the new site proposal, we believe that trees #476 - #478 will subjected to further root & soil impacts. Such impacts would more than likely lead to the loss of each tree.
- The cut and fill requirements for lots 2 & 3 will require extensive grade improvements significantly altering the existing grade. The grade altering will more than likely impacts trees positioned in the front of each lot. Trees #486, #492, #493, #494, #495 & #96 positioned in lot 2 will be significantly impacted.
- **Private trees positioned opposite lot #3 will require assessment and monitoring by the Project Arborist (P/A) during excavation requirements. Trees #479, #480 & #483 are to be preserved & protected.**
- Utility alignment and excavation requirements for service connects must be monitored by the P/A - The services alignment will more than likely be placed under or along the side of the common driveway to Saanich X Road.

Excavation Process and Recommendation for Tree Root Zones

1. Provide and schedule Project Arborist to assess site prior to construction.
2. Inventory and identify trees and hazards which could complicate excavation process.
3. Utilize hand tools and cutting equipment when large tree roots are anticipated.
4. Provide small rubberized track excavation equipment which will reduce soil compaction.
5. Excavator operator must be well informed about dig site and goal to complete project.
6. Use shallow excavation sweeps across the site to establish a depth which roots can be easily identified. (3cm to 5cm in depth of soil for each sweep across the soil face)
7. Roots greater than 6cm in diameter should be preserved and inspected by the Project Arborist. The project arborist will determine if roots should be pruned or cut.
8. All roots greater than 6cm in diameter should be identified and documented for project records.
9. Photos are highly recommended for documentation purposes.

Assessment of the site may expose further tree issues or conditions. If this occurs the project arborist will contact District of Central Saanich Parks Staff for further recommendations.

Tree Protection Plan – General Guidelines

- i. Provide a detailed sign specifying that tree protection measures are in place and will be followed during the project. Fines will be posted for malicious acts and can be placed on individuals who disregard the tree protection plan and its guidelines. Signs will be placed at each entrance of the project detailing what is expected when working in potentially high impact tree protection zones.**
- ii. Provide tree protection fencing for all trees identified with protection requirement in this report. This fencing shall be four (4ft) feet in height and made of orange plastic. If required, header and footer boards will be used to secure the protective fencing. Use the District of Central Saanich tree protection specifications.**
- iii. Tree protection and root protection signs will be placed on the fencing. No entry will be allowed, unless specified by the project arborist and in their presents while on site.**
- iv. Restrict vehicle traffic to designated access routes and travel lanes to avoid soil compaction and vegetation disturbances.**
- v. Make all necessary precautions to prevent the storage of material, equipment, stockpiling of aggregate or excavated soils within tree protection areas. No dumping of fuels, oils or washing of concrete fluids will be allowed in tree protection zones.**
- vi. Provide an onsite arborist when a risk of root damage, root cutting or limb removal is required within the tree protection zone.**
- vii. Avoid alterations to existing hydrological patterns to minimize vegetation impacts to the site.**
- viii. The use of a project arborist is required to provide layout of tree protection zones. The project arborist(s) will provide pre-construction information to all parties involved with the project. The arborist must be notified 72hrs prior to construction activities in sensitive areas. The project arborist should be used to provide root and branch pruning when diameters are greater than 6cm.**
- ix. At no time will tree protection zones be removed from the project unless approved by the project arborist.**

Arborist Disclosure Statement:

Arborist are tree specialists who use their education, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risks.

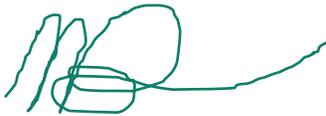
Arborist cannot detect every condition that could possibly lead to structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below the ground.

Arborist cannot guarantee that the tree will be healthy and safe under all circumstances, or for a specific period of time. Trees are dynamic specimens, not static. Changes in conditions including the environment are unknown.

Remedial treatments cannot be guaranteed.

Trees can be managed, but they cannot be controlled. The only way to eliminate all risk is to eliminate all trees.

Michael Butcher - Consulting Arborist



Michael Butcher- President
SouthShore Forest Consultants
BSc Forestry
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250.893.9056

GST # 777095324 RC001
Work Safe BC # 968408
Incorporation # BC1069996
BC SEBASE Safe Certified #5200066
Certified Tree Appraiser #3443

Photo #1 -Tree Protection Fencing Design and Construction Detail



In this photo you can see the basic design and construction requirements for Tree Protection Fencing in the District of Central Saanich. The sign on the front of the fencing is required. The sign must be posted in a visible position on the fencing.

Figure #3 – Tree Protection Fencing Detail

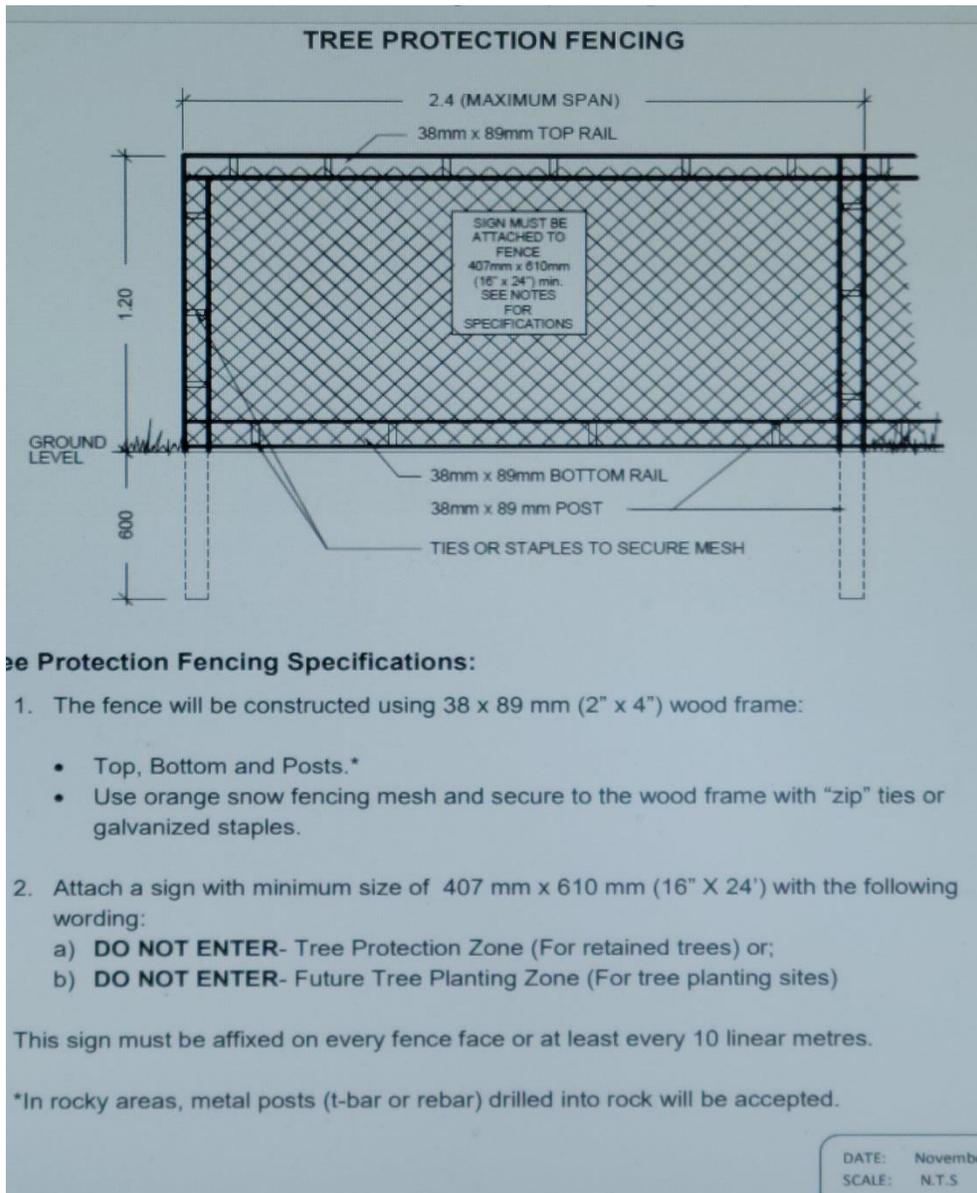


Figure #4 - Tree Protection Signage



Tree Assessment Condition Rating

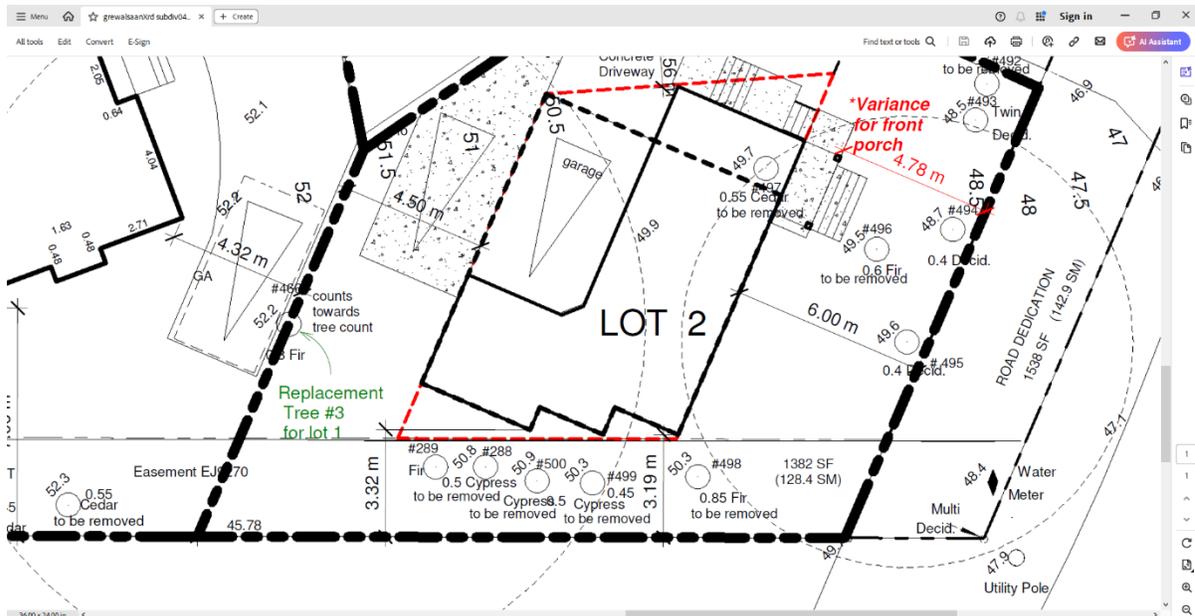
- Good - A tree specimen which is exempt defects, branch dieback, moderate insect and fungal identification. This tree has evenly distributed branching, trunk development and flare. The root zone is undisturbed, leaf, bud and flower production and elongation are normal for its distribution.
- Fair - A tree specimen which has minor defects, branch dieback, previous limb failure, identification of cavities and insect, or fungal identification. This tree has multiple (2-3) primary stem attachments; previous utility pruning, callus growth and poor wound wood development. Minor root girdling, soil heave and identifiable mechanical damage to the root flare or root zone.
- Poor- A tree specimen where 30-40% of the canopy is identifiably dead, large dead primary branching, limited leaf production, bud development and stem elongation. Limb loss or failure, and heavy storm damage leading to uneven weight distribution. Large pockets of decay, multiple cavities, heavy insect and fungal infection. Root crown damage or mechanical severing of roots. Root plate shifting, heavy lean and movement of soil.
- Dead- Tree has been observed to be dead with no leaf, foliar and bud development. No stump sprouts and root suckers are present.

District of Central Saanich – Correspondence back to Client – October 18, 2024

Required:

- An updated arborist report: Staff notes - Insufficient reasoning for removal of trees 498, 499, 500, 288, 289. Tree 483 could not be sufficiently protected for retention under the current plan. Reduction of parking spaces could allow for retention of several trees on all lots. Tree removal permit required for any permit trees to be removed. Tree protection for neighbouring properties must be installed and maintained prior to, and during any works. Review of plans for retention of permit trees on lots 2 and 3.
- Updated landscape plan: Staff would like to see a landscaping plan that confirms the percentage of soft landscaping for each lot and one that shows all parking areas for the three parking spaces on each lot and is consistent with the site plans.
- Updated Site plan: Staff would like to see a site plan that identifies the lot frontage for all lots.
- Confirmation of step code and solar: Please confirm if the new homes will be ducted to be solar ready and if the new homes will meet Step Code 4.

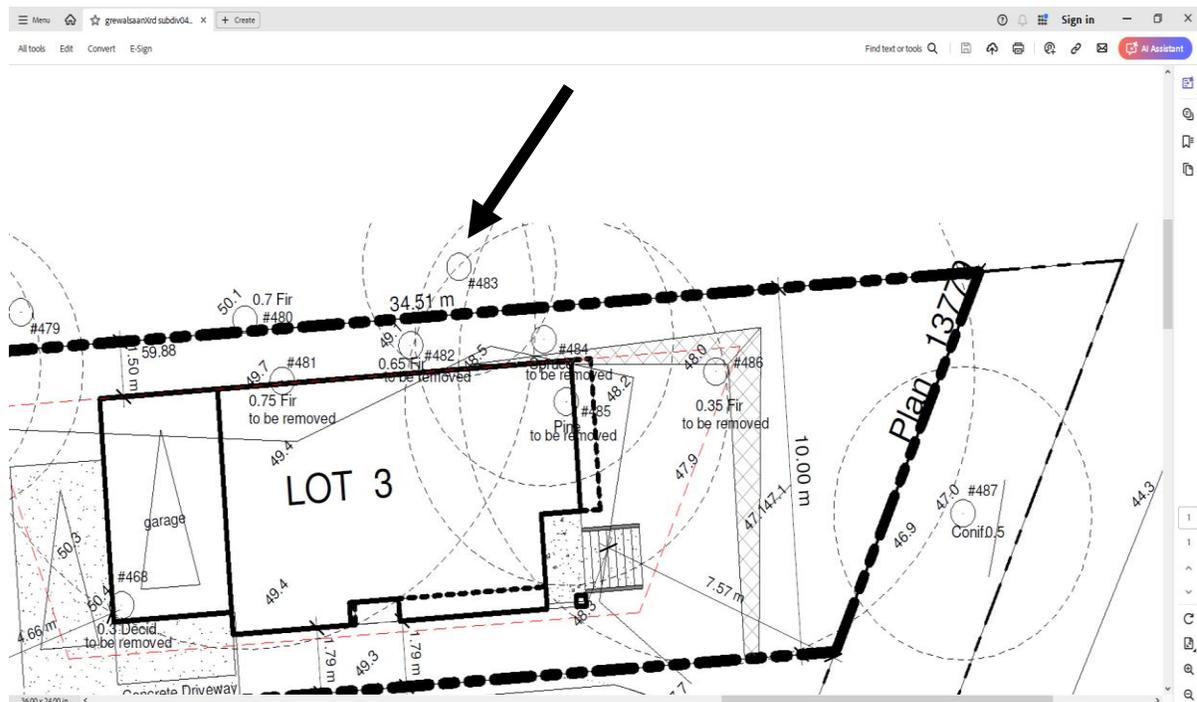
Figure #1 – Trees #498, #499, #500, #288 & #289 – Lot #2 – Proposed Building Footprint



Tree Retention

- Under the current proposal we highly recommend that trees #498-#500, #288 & #299 be removed due to anticipated excavation impacts. Each of the five (5) trees are positioned approximately 2m from the edge of the proposed building footprint for Lot #2.
- The excavation process will require at a minimum 0.5m of over excavation and therefore we expect that approximately 30-40% of each tree's Critical Root Zone (CRZ) will be removed and/or significantly impacted.
- A root loss of this magnitude for such large trees borders on the tree care industry tree retention threshold and therefore we are recommending that each of the five trees be removed due to post development failure probabilities.
- Combined with each tree's size, positioning and the development of new stationary "Targets" we believe that each tree would carry a residual risk of "High" in the landscape.
- The utilization of pruning mitigation (tree reduction) is not recommended due to extent of canopy loss that will be required.

Figure #2 – Tree #483 Cherry – Off Site Tree



- Due to the size and positioning of tree #483 we believe that retention is feasible.
- The over excavation requirements due pose a threat to the trees CRZ, but when you consider the trees size (16cm diameter) we feel that root loss 30% < is less likely to increase the trees risk in the landscape.
- In this case the Project Arborist shall be required to assess and monitor the excavation within tree #483's CRZ. Once performed the Project Arborist shall provide and impact statement memo for the district to review.

Regards - Michael Butcher – SSFC

Oct 23, 2024

Addendum #3 - Correspondence & Deficiency Listing - Received Nov 4th, 2024

Hello Michael,

I have reviewed the revised Arborist Report for the property and I have found a few items that will require correction.

Several trees are listed as not bylaw protected when they should be listed as protected. This appears to be due to an incorrect protected tree size being used.

Central Saanich's Tree Management Bylaw No. 2065 states "Permit tree" means a *protected tree* or a living, erect, self-supporting woody plant which is 30 centimetres or more in diameter at DBH except when planted as a hedge."

Trees no. 476, 477, 478, 479, 482, 484, 485, 488, 491, 492, 493, 495, 499, 500, 288 and 468 are all above 30cmdbh and are Permit Trees.

Was the site re-assessed after the sidewalk installation? Several trees were removed as per of that project. This will affect the tree removal totals for the site and if any trees have been removed that were to be retained, this will affect the replacement requirements. Tree protection may also be affected.

The SE corner of Lot 1 has a .55m cedar labeled for removal. This would require a permit and would need to qualify for removal.

Once I have clarification on the number of permit trees to be removed, updated tree protection if needed, as well as replacement selections I can proceed with the application.

If you have any questions, please contact me.

Thank You,

Conan ODell – District Arborist

Associate Arborist – Ray Praud

Hey Mike.

Notes for 6299 Saanich X Rd. You will get 2 emails (including this one with new photos).

1. Trees #486, 487, 488, and 495 appear to have been removed along the road frontage.
2. Tree #466 shared between lots 1 and 2 will be retained (counted as 1 replacement?)
3. 55cm No Tag Cedar on SE corner of lot 1 to be retained. (shown as remove on plan).
4. Remaining tree conditions appear to be unchanged from the original inventory. Remaining trees along the frontage have had excavation close to the stems for retaining wall construction. No significant roots were observed along the cut face of the bank. **Bank stability may be a concern.**

Let me know if you need anything further from me here.

Regards,

Ray Praud
Arboriculture Consulting Director
Tomahawk Tree Service Ltd.
raypraud@tomhawktreeservices.ca
250-661-7079
Certified Utility Arborist: 19-TT-20
ISA/TRAQ Certified Arborist- PN-9461A
Wildlife Danger Tree Assessor: 8302

Southshore Forest Consultants										
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468	M Ash	36	6	5	F/P	L/M	Yes		X	2X stem- grade impacts - remove to grade, (non protected tree)
NT1	Cedar	55	22	6	F/F	L/M	Yes	X		SE corner of Lot 1 - Retain & Protect

Tree Species List

W cedar = Western cedar (*Thuja plicata*)

L cypress = Leyland cypress (*Cupressus x leylandii*)

Cherry = cherry species (*Prunus sp.*)

Spruce = spruce species (*Picea sp.*)

G fir = grand fir (*Abies grandis*)

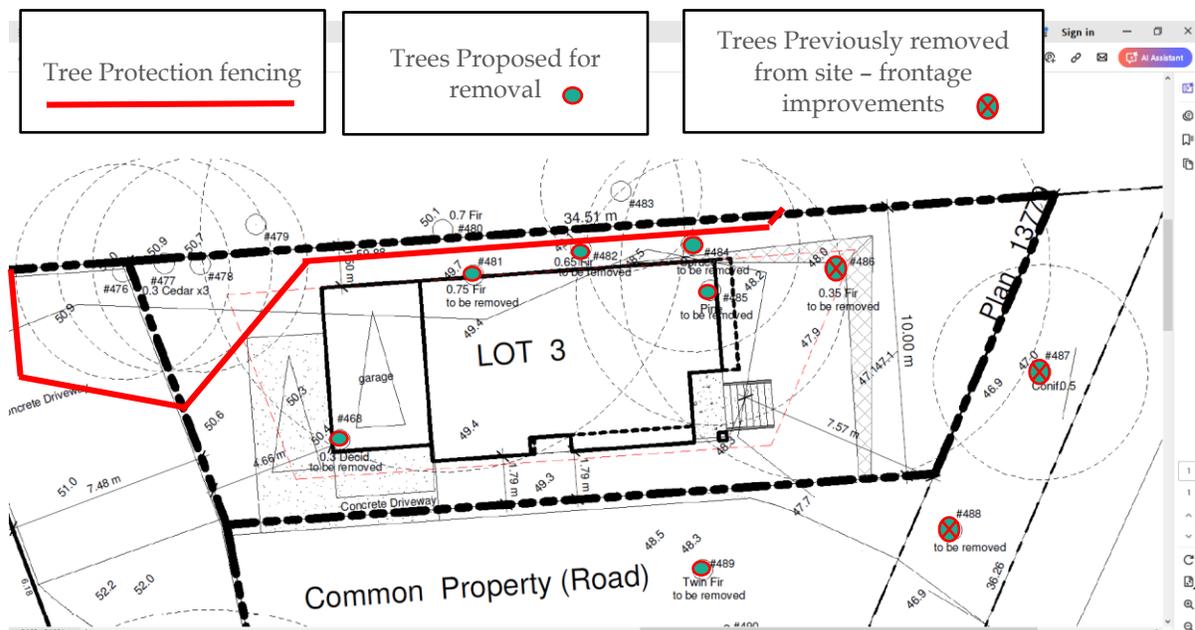
BL maple = bigleaf maple (*Acer macrophyllum*)

M ash = mountain ash (*Sorbus sp.*)

D-fir = Douglas-fir (*Pseudotsuga menziesii*)

- Trees highlighted in red have been identified for removal.
- Eighteen (18) trees have been identified for removal.
- Sixteen (16) Bylaw Protected Trees are identified for removal.
- Staging is to be positioned in common property - Lot #1 & #2

Figure #1 - Lot 3 - Tree Protection Diagram



General Tree Protection & Mitigation Notes

Excavation Process and Recommendation for Tree Root Zones

1. Provide and schedule Project Arborist to assess site prior to construction.
2. Inventory and identify trees and hazards which could complicate excavation process.
3. Utilize hand tools and cutting equipment when large tree roots are anticipated.
4. Provide small rubber tracked excavation equipment which will reduce soil compaction.
5. Excavator operator must be well informed about dig site and goal to complete project.
6. Use shallow excavation sweeps across the site to establish a depth which roots can be easily identified. (3cm to 5cm in depth of soil for each sweep across the soil face)
7. Roots greater than 6cm in diameter should be preserved and inspected by the Project Arborist. The project arborist shall determine if roots maybe pruned or cut
8. All roots greater than 6cm in diameter should be identified and documented for project records
9. Photos are highly recommended for documentation purposes.
10. Hand digging and the use of alternative soil removal techniques may be required. Each tree and/or species profile had different demands when excavation is required. Soil profile, rock and grade formations must be considered. Hydro Excavation, Air Excavation and Boring are alternative excavation techniques.

Tree Assessment Condition Rating

Good -	A tree specimen which is exempt defects, branch dieback, moderate insect and fungal identification. This tree has evenly distributed branching, trunk development and flare. The root zone is undisturbed, leaf, bud and flower production and elongation are normal for its distribution.
Fair -	A tree specimen which has minor defects, branch dieback, previous limb failure, identification of cavities and insect, or fungal identification. This tree has multiple (2-3) primary stem attachments; previous utility pruning, callus growth and poor wound wood development. Minor root girdling, soil heave and identifiable mechanical damage to the root flare or root zone.
Poor-	A tree specimen where 30-40% of the canopy is identifiably dead, large dead primary branching, limited leaf production, bud development and stem elongation. Limb loss or failure, and heavy storm damage leading to uneven weight distribution. Large pockets of decay, multiple cavities, heavy insect and fungal infection. Root crown damage or mechanical severing of roots. Root plate shifting, heavy lean and movement of soil.
Dead-	Tree has been observed to be dead with no leaf, foliar and bud development. No stump sprouts and root suckers are present.

Tree Protection Plan

- i. Provide a detailed sign specifying that tree protection measures are in place and will be followed during the project. Fines will be posted for malicious acts and can be placed on individuals who disregard the tree protection plan and its guidelines. Signs will be placed at each entrance of the project detailing what is expected when working in potentially high impact tree protection zones.
- ii. Provide tree protection fencing for all trees identified with protection requirement in this report. This fencing shall be four (4ft) feet in height and made of orange plastic. If required, header and footer boards will be used to secure the protective fencing. **Use the District of Central Saanich tree protection specifications.**
- iii. Tree protection and root protection signs will be placed on the fencing (Habitat Protection Area). No entry will be allowed, unless specified by the project arborist and in their presents while on site.
- iv. Restrict vehicle traffic to designated access routes and travel lanes to avoid soil compaction and vegetation disturbances.
- v. Make all necessary precautions to prevent the storage of material, equipment, stockpiling of aggregate or excavated soils within tree protection areas. No dumping of fuels, oils or washing of concrete fluids will be allowed in tree protection zones.
- vi. Provide an onsite arborist when a risk of root damage, root cutting, or limb removal is required within the tree protection zone.
- vii. Avoid alterations to existing hydrological patterns to minimize vegetation impacts to the site.
- viii. The use of a project arborist is required to provide layout of tree protection zones. The project arborist(s) will provide pre-construction information to all parties involved with the project. **The arborist must be notified 72hrs prior to construction activities in sensitive areas.** The project arborist should be used to provide root and branch pruning when diameters are greater than 8cm.
- ix. At no time will tree protection zones be removed from the project unless approved by the project arborist.

Role of the Project Arborist

As well as creating the Tree Preservation Plan, the Project Arborist must be on site to supervise work within or immediately adjacent to the tree protection areas identified on the attached tree plan.

The Project Arborist will be present to supervise landscaping operations and activity within the tree protection areas.

At completion of the project, the Project Arborist will confirm that any tree protection or remediation related deficiencies have been addressed by the owner and building contractor. Once all deficiencies (if any) have been remedied, the Project Arborist shall prepare a letter to the City of Victoria confirming completion of the project.

The following is a summary of important roles of the Project Arborist.

- A site meeting is required prior to the commencement of works adjacent to Tree Protection Zones to discuss the preservation plan prior to work commencing on site. **It is the responsibility of the Client to schedule a pre-work site meeting. *72 hrs. Notice Required. SSFC 250-893-9056***
- The meeting will review the Tree Protection Plan, Tree Protection Zones and the specific measures required to protect the trees during the site preparation, construction and landscape phases of construction.
- The Project Arborist will inspect and verify Tree Protection Fencing and any other tree protection measures prior to a tree permit being issued by the City and prior to work commencing on site.
- The Project Arborist will be on site during the following work within or immediately adjacent to the Tree Protection Areas as indicated on the attached Site Plan:
 - ❖ demolition
 - ❖ grading
 - ❖ excavation
 - ❖ rock removal or blasting
 - ❖ trenching for underground services and utilities
 - ❖ preparation of grade for the proposed driveways and parking areas
 - ❖ site inspections to insure adherence to Tree Protection Measures.

Figure #3 – Tree Protection Fencing Schematics

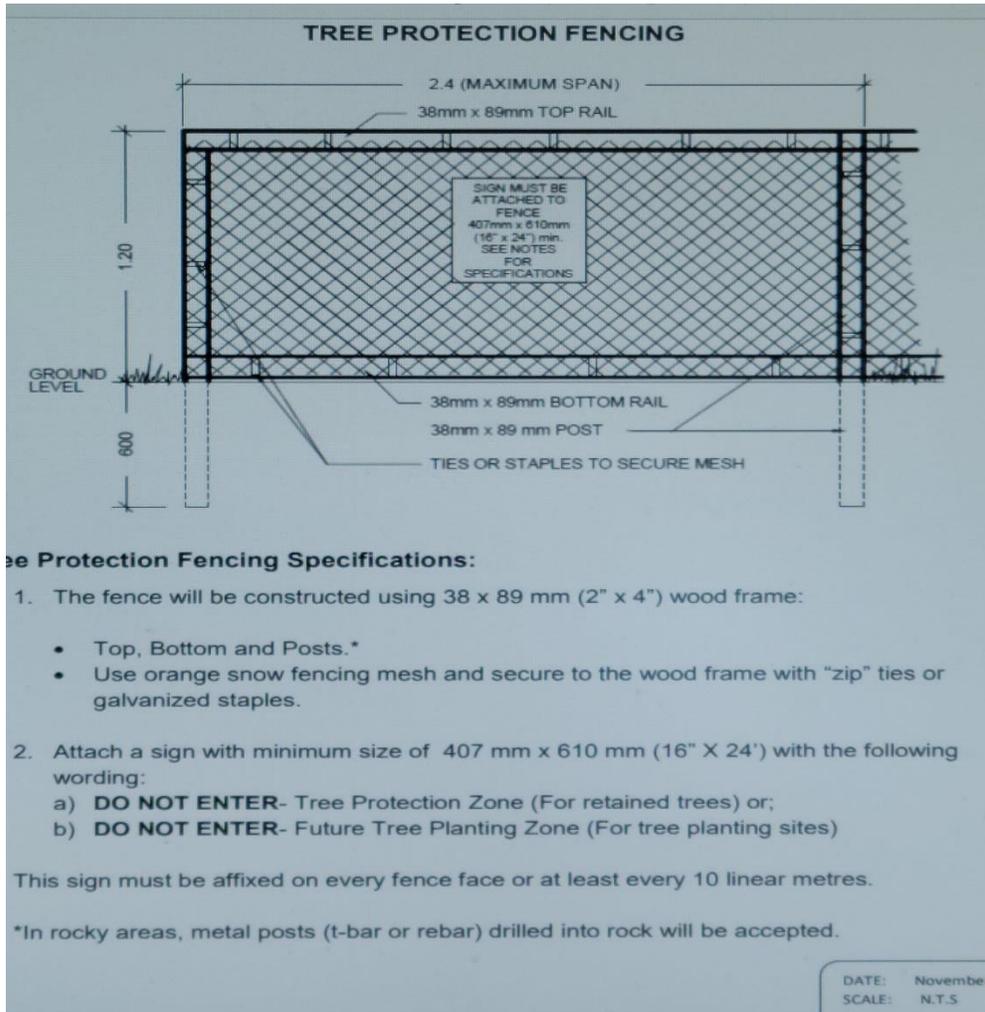


Figure #4 – Tree Protection Signage



Figure #5 – Tree Protection Notes for Reference

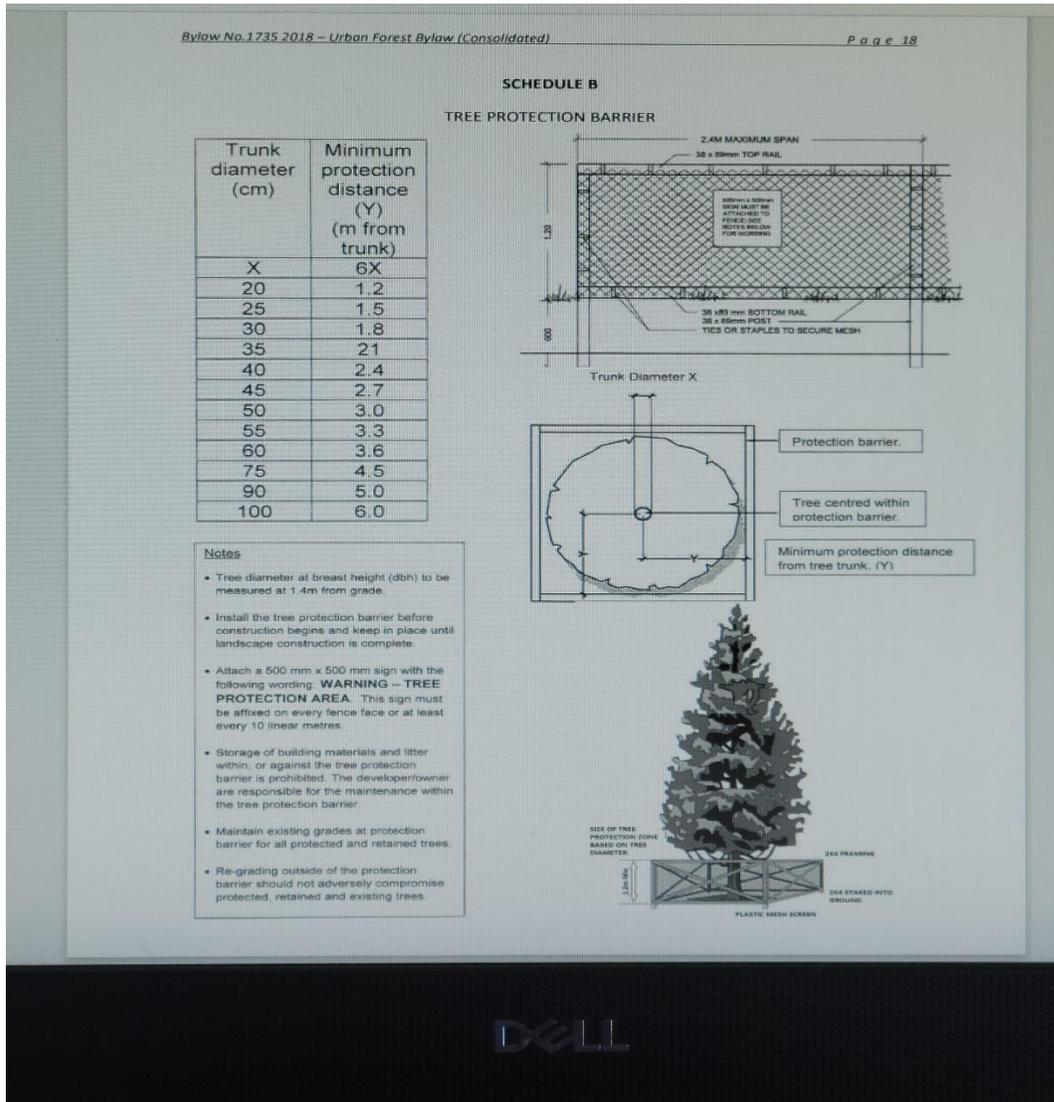


Figure #5 - Tree Planting Notes for Reference

