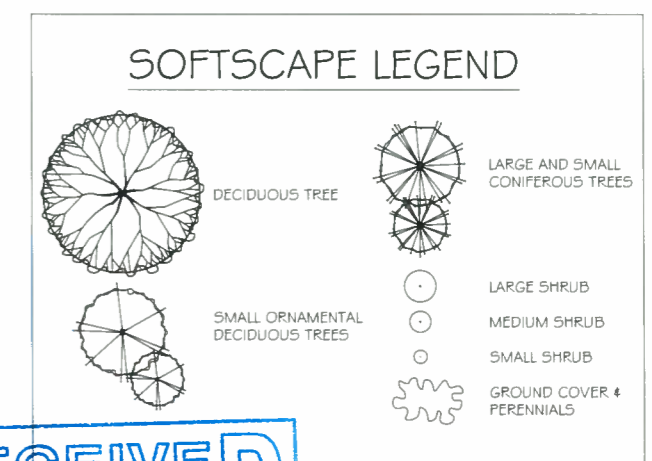


### SUGGESTED PLANT LIST

	Common Name	Latin Name	Size	
<b>Trees</b>	Vine Maple	Acer circinnatum	6m Cal	
	Japanese Maple	Acer palmatum var. Borealepouf	6m Cal	
	Katsura Tree	Cercidiphyllum japonicum	6m Cal	
	Pacific Dogwood	Cornus nuttallii var. Tardus White Wonder	6m Cal	
	Serbian Spruce	Picea omorika	2.2m Ht	
	Autumn Flowering Cherry	Prunus autumnalis	6m Cal	
	Garry Oak	Quercus garmanii	6m Cal	
	Japanese Snowbell	Styrax japonica	6m Cal	
	Western Red Cedar	Thuja plicata var. 'Zuculba'	2.2m Ht	
	Lavalle Hawthorn	Crataegus x Lavalei	6m Cal	
<b>Large Shrubs</b>	California Lilac	Geanthus van Victoria	1.5m Ht	
	Dwarf Burning Bush	Eurymyrs aala var. Compacta	#5 Pot	
	Star Magnolia	Maanola asterata var. Royal Star	#5 Pot	
	Lily of the Valley Shrub	Pieris japonica var. 'Forest Flame' & 'Valley Rose'	#5 Pot	
	Rhododendron	Rhododendron var. 'Pink Waiver' & 'Gomer Waterer'	#5 Pot	
	Japanese Cedar	Thuja occidentalis var. 'Smaragd'	1.5m Ht	
	Viburnum	Viburnum bicus var. 'Spiraea Bouquet'	#5 Pot	
	Summer Snowflake Viburnum	Viburnum plicatum var. Summer Snowflake	#5 Pot	
	<b>Shrubs</b>	Glossy Abelia	Abelia x grandiflora	#2 Pot
		Mexican Orange Blossom	Chrysa leucata	#5 Pot
Vandaeared Dogwood		Cornus alba var. 'Lucy Male'	#2 Pot	
Sisal		Gaithera spallan	#2 Pot	
Dwarf Oregon Grape		Mahonia aquifolium var. 'Compacta'	#2 Pot	
Oslo Lyman Laurel		Prunus laurocerasus var. 'Oslo Lyman'	#2 Pot	
Rhododendron		Rhododendron var. 'Unusual' & 'Christmas Cheer'	#2 Pot	
Rose Flammaria Current		Ribes Sibiricum var. 'Kina Forward'	#2 Pot	
Nookia Rose		Rosa hulkana	#2 Pot	
Sinocentury		Symphoricarpos albus	#2 Pot	
David Viburnum	Viburnum davidii	#2 Pot		
<b>Small Shrubs</b>	Evergreen Azalea	sp.	#2 Pot	
	Autumn Fern	Dryopteris erythrosora	#5/5 Pot	
	Winter Flowering Heather	Erica darlyensis var. 'Arthur Johnson'	#1 Pot	
	Dwarf Escallonia	Escallonia x Newport Dwarf	#2 Pot	
	Creeping Euonymus	Euonymus fortunei var. Emerald Carpet	#1 Pot	
	Lenten Rose	Heliosyris orientalis & 'Helleborus niger'	#1 Pot	
	Hydrangea	Hydrangea macrophylla var. 'Forever Pink'	#1 Pot	
	Cascade Mahonia	Mahonia nervosa	#1 Pot	
	Dwarf Mock Orange	Philadelphus lewisii var. 'Snowdwarf'	#1 Pot	
	Dwarf Lily of the Valley Shrub	Pieris japonica var. 'Debutante'	#1 Pot	
Sweet Fern	Polystichum minimum	#1 Pot		
Dwarf Rhododendron	Rhododendron var. 'Bow Bells' & 'Jock'	#2 Pot		
Sweetbox	Sarcococca hookeriana humilis	#1 Pot		
<b>Ground</b>	Bearberry	Arctostaphylos uva-ursi var. 'Vancouver Jade'	SP4	
	Heartleaf Beronaria	Beronia cordifolia var. 'Bressingham Ruby'	SP5	
	Buxberry	Cornus canadensis	SP4	
	Mountain Cranberry	Vitis idaea minor	SP4	
	<b>Vines</b>	Evergreen Clematis	Clematis amandii	#5 Pot
Clematis		Clematis var. 'Flageolet'	#2 Pot	
Winter Flowering Jasmine		Jasminum nudiflorum	#1 Pot	
Summer Jasmine		Jasminum officinale	#1 Pot	
Virginia Creeper		Parthenocissus quinquefolia var. 'Three main'	#1 Pot	
<b>Perennials</b>	Astibe	Astibe chinensis var. 'Fumia'	SP5	
	Monteperia	Crocus var. 'Lucifer'	SP5	
	Dwarf Daylily	Hemerocallis var. 'Stella d'Or'	SP5	
	Coral Bells	Heuchera micrantha var. 'Bressingham Bronze'	SP5	
	Sweet Iris	Iris pallida var. 'Aureo-Vanegata'	SP5	
<b>Wildflowers &amp; Bulbs</b>	English Lavender	Lavandula angustifolia var. 'M. d'Or'	SP5	
	Kaffir Lily	Bolbosylis coccinea var. 'Orean Sunset'	SP5	
	Common Camas	Camassia quamash	Bulb	
	Crocus	Crocus chrysanthus sp.	Bulb	
	Shooting Star	Diodecatheon hendersonii	Bulb	
Kaffir Lily	Erythronium oreocolum	Bulb		
Chocolate Lily	Erilina lanceolata	Bulb		
Snowdrops	Galanthus nivalis	Bulb		
Lily	Lilium clematis	Bulb		
Blue Violet	Viola adunca	#1 Pot		

Notes: - All landscape work to conform with B.C.S.L.A. / B.C.N.T.A. standard specification  
- All areas to be irrigated with an automatic underground system.



TREES TO BE RETAINED

TREES TO BE REMOVED

TREE PROTECTION FENCING WILL BE PROVIDED FOR ALL RETAINED TREES AND TREE REPLACEMENT PLANTING SITES

GROWING MEDIA SOURCE & INSTALLATION TO BE APPROVED BY LANDSCAPE ARCHITECT

BOULEVARD TREE IRRIGATION SYSTEM MUST BE ON ITS OWN TIMER

SAANICH WILL REQUIRE ROOT BARRIER ADJACENT TO ALL SIDEWALKS

SPECIFICATIONS USING A DOUBLE RING DRIP SYSTEM W/ A DOUBLE CHECK VALVE

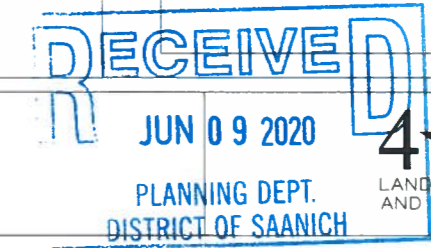
IRRIGATION TO THE BOULEVARD TREES SHALL BE PROVIDED BY THE DEVELOPER BY A WATER METER THAT IS SEPARATE FROM THE BUILDING. THE BOULEVARD TREE IRRIGATION SYSTEM SHALL BE INSTALLED BY THE APPLICANT'S CONTRACTOR TO IIABC & DISTRICT OF SAANICH

# Saanich & McKenzie

## Landscape Concept Plan

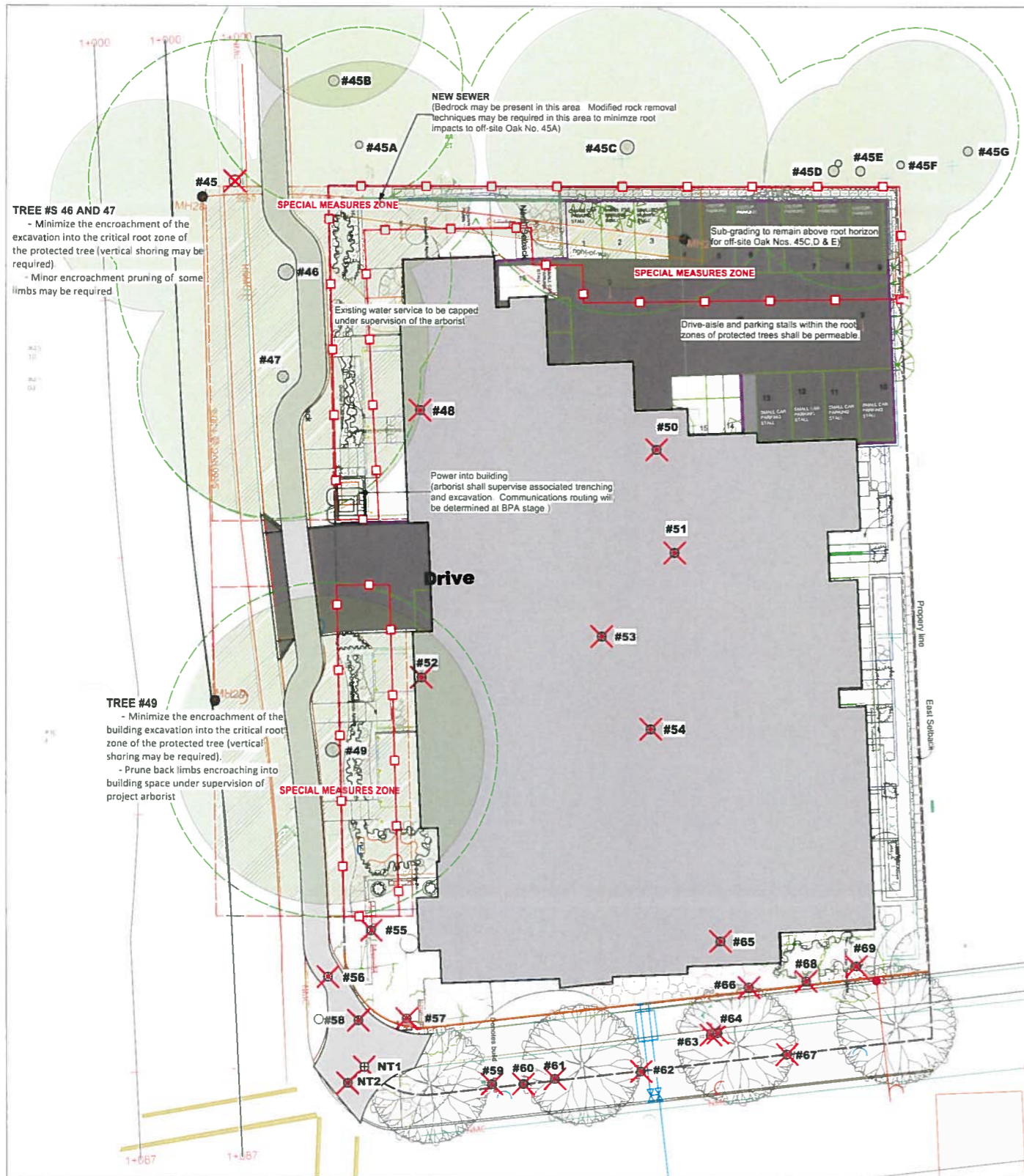
SCALE  
1:150  
DATE  
JUNE 4, 2020 (REVISED)

NOTES  
DRAWN BY  
BF/RF



**4★ SITE**  
LANDSCAPE ARCHITECTURE  
AND SITE PLANNING  
250.508.7885





**TREE #S 46 AND 47**  
 - Minimize the encroachment of the excavation into the critical root zone of the protected tree (vertical shoring may be required)  
 - Minor encroachment pruning of some limbs may be required

**TREE #49**  
 - Minimize the encroachment of the building excavation into the critical root zone of the protected tree (vertical shoring may be required)  
 - Prune back limbs encroaching into building space under supervision of project arborist

G&A Tree ID	Common Name	DBH (cm)	PRZr (m)	Crown Radius (m)	Health	Structural Condition	Bylaw Protected Tree?	Comments	Recommendations
<b>ON-SITE TREES (16)</b>									
48	Walnut	44	8	4	Good	Good	No		REMOVE
50	Sycamore maple	40	7	4	Good	Fair	No		REMOVE
51	Cherry	42	8	4	Good	Fair	No		REMOVE
52	Cherry	18	3	2	Fair	Fair	No		REMOVE
53	Locust X6	12 to 18	4	4	Good	Fair	No		REMOVE
54	Apple (no lag)	18	3	2	Good	Fair	No	No lag	REMOVE
55	Golden cedar	30, 29, 26	5	4	Good	Fair	Yes		REMOVE
57	Cypress	68	7	4	Good	Poor	Yes	Multiple leaders, included bark 59.7 cm @ 3 m height	REMOVE
58	Ornamental plum	24	4	4	Good	Fair	No		REMOVE
59	Ornamental plum X3	12 to 24	4	4	Good	Fair	No		REMOVE
63	Cherry	36, 20, 16	6	5	Fair	Fair	Yes		REMOVE
64	Laburnum	38	7	5	Good	Fair	No		REMOVE
65	Deodar cedar	84	10	7	Good	Fair	Yes	Lean east	REMOVE
66	Deciduous sp. X2	22, 24	5	5	Good	Fair	No		REMOVE
68	Douglas fir	31	5	4	Good	Fair	Yes		REMOVE
69	Red cedar	28	5	3	Fair	Fair	No		REMOVE
<b>BOUNDARY TREES (5)</b>									
NT1	Ornamental plum	17, 16	5	3	Fair	Fair	No	Located on plan by arborist	REMOVE
60	Ornamental plum	18	3	3	Fair	Poor	No		REMOVE
61	Cherry	14	3	2	Poor	Poor	No		REMOVE
62	Cherry	18	3	3	Fair	Poor	No		REMOVE
67	Deodar cedar	48	6	5	Good	Poor	No	Topped	REMOVE
<b>OFF-SITE TREES (7)</b>									
45A	Garry oak	58	7	6	Good	Fair	Yes	Lean west, old flush cut	Retain and protect
45B	Garry oak	82	10	8	Good	Good	Yes		Retain and protect
45C	Garry oak	108	13	8	Good	Fair	Yes		Retain and protect
45D	Garry oak X2	82, 52	9	7	Good	Fair	Yes		Retain and protect
45E	Garry oak	70	8	7	Good	Fair	Yes		Retain and protect
45F	Garry oak	58	7	5	Good	Good	Yes		Retain and protect
45G	Garry oak	70	8	7	Good	Fair	Yes	Old flush cut, internal decay	Retain and protect
<b>BOULEVARD TREES (6)</b>									
45	Garry oak	90	11	8	Good	Fair	Yes	Lean west, double leader, sidewalk imbedded at the base of tree	REMOVE
46	Garry oak	122	13	11	Good	Fair	Yes	Old flush cut, included bark	Retain and protect
47	Garry oak	88	11	8	Good	Fair	Yes	Old flush cut, included bark	Retain and protect
49	Garry oak	110	13	12	Good	Good	Yes		Retain and protect
56	Ornamental plum	20	4	2	Good	Fair	No		REMOVE
NT1	Ornamental plum	19	3	3	Fair	Fair	No	Located on plan by arborist	REMOVE
NT2	Ornamental plum	17	3	3	Fair	Fair	No	Located on plan by arborist	REMOVE

CLASSIFICATION		NUMBER OF TREES
Trees indicated in table and on plan		35
On-site and boundary trees		21
On-site bylaw trees		4
On-site bylaw trees proposed for removal		5
On-site replacement trees required for planting		5
Off-site (private) trees adjacent to site		7
Public boulevard trees		7
Number of boulevard trees proposed for removal		4
Number of boulevard replacement trees required		4

**Tree Protection Fencing Detail**

Modular steel panel fencing is recommended in order to reduce land-fill waste post-construction. Fencing panels shall be secured to the ground with rebar wired to panel frame.

16 x 24" all-weather signage will be attached with the following wording:  
 Wording for protected trees: DO NOT ENTER - Tree Protection Zone  
 Wording for future tree planting sites: DO NOT ENTER - Future Tree Planting Zone

In cases where steel-panel fencing is not practical or available, fencing shall be constructed with a wooden 2x4 frame (side, top and bottom rails) and back-bracing supports as required to ensure robust placement. Snow-fencing will then be affixed to the frame using battens, zip-ties, staples, wire or nails.

## DO NOT ENTER

### Tree Protection Zone

**NO DUMPING  
NO FILL**

**NO STORAGE**

**NO DIGGING  
NO EXCAVATING**

Under the Tree Protection Bylaw, No. 9272, up to \$1,000 penalty may apply if this sign or protective fencing is removed.

- ### TREE PRESERVATION MEASURES
- Before demolition, site servicing or other site work commences, the owner, contractor or relevant design consultant(s) shall meet with the arborist to review the Tree Protection Plan and associated measures. This particularly includes the civil engineer, geo-technical consultant and sub-contractors responsible for site servicing and road works.
  - Tree fencing shall be erected to the satisfaction of the project arborist and the District of Saanich before other site work commences and remain in good condition throughout the duration of the project (see attached details for fencing and signage).
  - Temporary construction access within a TPA must be approved and supervised by a project arborist. This includes landscaping.
  - If it should prove necessary to reduce the tree fencing, the exposed TPA outside fencing shall be armoured with 3/4" plywood or a temporary cover of geo-textile and 200mm of road-base, moderately compacted with a plate compactor.
  - All forms of disturbance to the protected trees or their habitat within the fenced protection areas (TPAs) are prohibited.
  - No equipment, materials, waste products or excavated soil shall be placed or stored within the TPA. THIS PARTICULARLY INCLUDES HOARDING OF EXCAVATED SOILS NEEDED FOR BACKFILLING OF FUTURE BUILDING FOUNDATION.
  - The arborist shall be present to oversee stump removal, excavation, service trenching, grading, blasting and landscaping within, or adjacent to, the tree protection areas (TPAs). Areas of particular sensitivity are identified on this plan as **Special Measures Zones**. Special measures required to minimize impacts to trees or their growing environments may include hydro-vac'ing, air-spading, hand-digging, vertical shoring, reduced excavation depths, re-pruning, modified rock removal techniques or use of specialized geotechnical products materials.
  - Any tree roots damaged shall be pruned back to undamaged tissue by the arborist.
  - The vertical face of the excavation adjacent to the TPAs shall be covered with geo-textile to prevent soil desiccation and erosion.
  - The contractor and blasting sub-contractor shall meet with the arborist to review a blasting plan prior to drilling. Modified blasting practices or rock removal techniques shall be utilized where considered necessary by the arborist to minimize blasting impacts to protected trees.
  - Procedure for blasting near tree root zones:
    - When blasting is required immediately adjacent to a Tree Protection Area, the blast contractor shall work with the arborist to develop a blasting plan and deploy best practices that minimize impacts to protected trees.
    - Blasting vibrations in the vicinity of the Tree Protection Areas are not to exceed a particle velocity of 25 mm/sec.
    - Use DYNAMITE as the explosive product. No fertilizer-based explosive is permitted, due to its toxicity to tree roots.
    - The contractor shall prevent rock debris from the blast site from entering the TPA.
  - In areas where the root zone of the tree has been reduced by excavation or rock removal the remaining area shall be top-dressed with 10cm of tree chip mulch until landscape stage.
  - The General Contractor, Landscape Contractor and Landscape Architect shall meet with the arborist to review the landscaping workplan prior to landscape construction or site preparation commencing. Potential impacts to sensitive tree habitat will be identified and measures provided to eliminate or mitigate the impacts.
  - The Project Arborist shall monitor the site during the site preparation, construction and landscaping phases to ensure ongoing and effective compliance with the tree protection measures specified in this tree plan and in on-site meetings with the General Contractor or relevant sub-contractors.
  - Cash will be paid to the District of Saanich in lieu of Five (5) replacement trees to mitigate the loss of five (5) bylaw-protected trees. See Landscape Plan for proposed species and planting location.
  - Four boulevard tree replacements will be provided for the removal of three boulevard trees (one tree at 2:1 ratio and two trees at 1:1 ratio) (see Landscape Plan for siting of trees on boulevard).
  - A full size all-weather copy of the Tree Plan shall be posted in the site office in plain sight.
  - A post-construction inspection and assessment of the site and protected trees shall be conducted by the Project Arborist in the company of the General Contractor and the District of Saanich Parks Arborist. Any deficiencies will be identified. Once all deficiencies have been addressed to the satisfaction of the Project Arborist and the District of Saanich post-construction letter of completion will be prepared by the arborist and submitted to the District.

### LEGEND

CONIFER

TREE CANOPY

TREE CENTRE

PROTECTED ROOT ZONE

DECIDUOUS

TREE TAG #

REMOVE TREE SYMBOL

RECEIVED

JUN 09 2020

PLANNING DEPT.  
DISTRICT OF SAANICH

Trees to be removed

Special Measures Zones

PROJECT: Saanich Road & McKenzie Ave, Saanich, BC

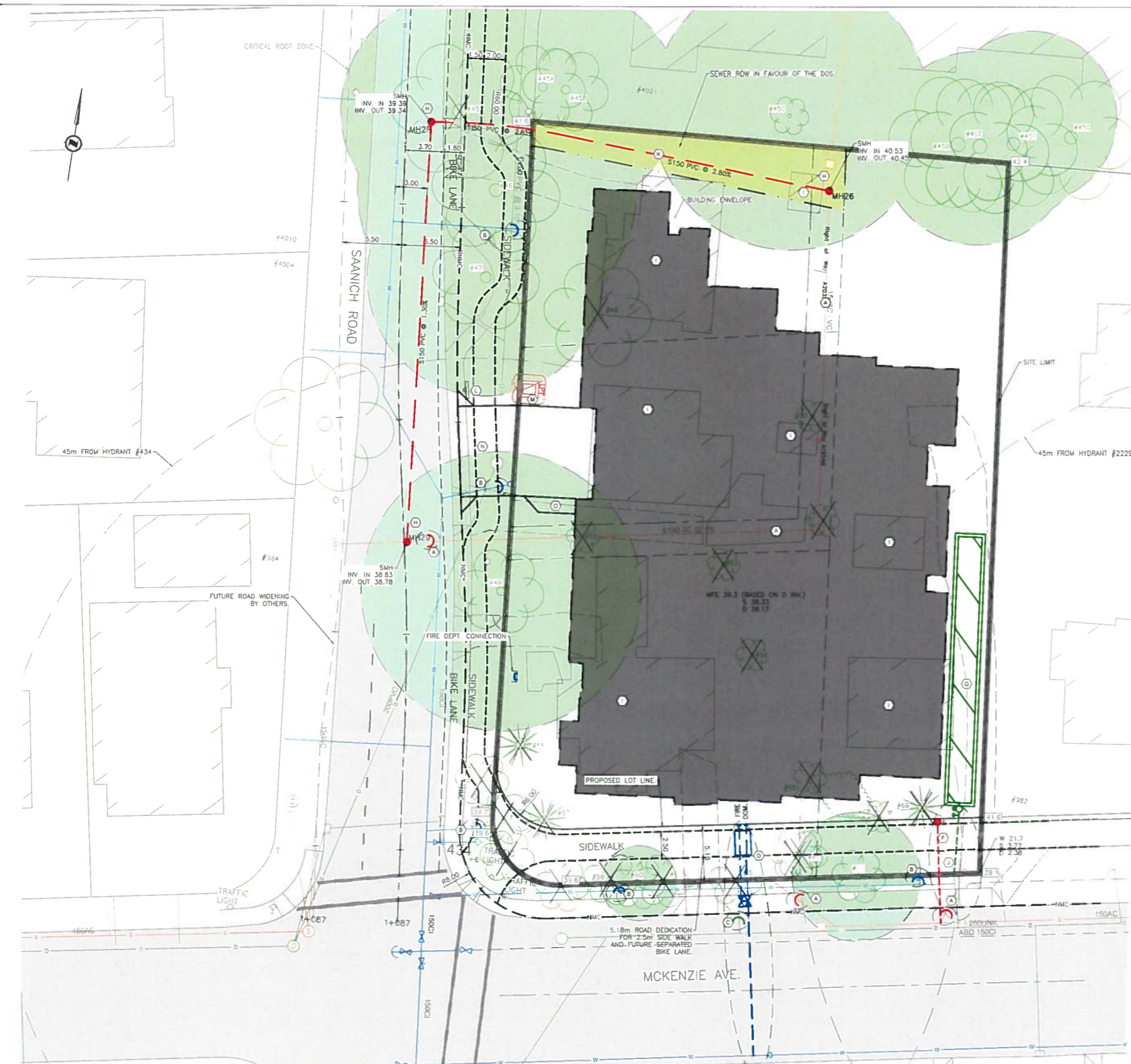
SHEET TITLE: Tree Management Plan

REVNO	DESCRIPTION	Date
1	FOR REZONING & SD	June
2	FOR REZONING & SD	Oct

PROJECT NO: \_\_\_\_\_  
 DATE: May 25  
 SCALE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 SHEET NO: \_\_\_\_\_







- DETAILED CONSTRUCTION NOTES:**
- (A) DISTRICT OF SAANICH TO CAP AND DECOMMISSION EXISTING SEWER AND SEWER SERVICE AT DEVELOPERS EXPENSE.
  - (B) DISTRICT OF SAANICH TO CAP EXISTING WATER SERVICE AT MAIN AT DEVELOPERS EXPENSE.
  - (C) DISTRICT OF SAANICH TO CAP EXISTING DRAIN SERVICE AT MAIN AT DEVELOPERS EXPENSE.
  - (D) DISTRICT OF SAANICH TO INSTALL WATER METER VAULT AT PROPERTY LINE AT DEVELOPERS EXPENSE. SIZE TO BE DETERMINED.
  - (E) DISTRICT OF SAANICH TO INSTALL NEW SEWER SERVICE AT DEVELOPERS EXPENSE. SIZE TO BE DETERMINED.
  - (F) CONTRACTOR TO INSTALL SWM SYSTEM AS SPECIFIED.
  - (G) DISTRICT OF SAANICH TO INSTALL NEW SEWER AND SEWER MANHOLES.
  - (H) EXISTING BUILDINGS TO BE DEMOLISHED.
  - (I) DISTRICT OF SAANICH TO INSPECT EXISTING DRAIN SERVICE AND EXTEND IT TO THE NEW PROPERTY LINE. DOS TO REPLACE IF NECESSARY.
  - (J) ROCK MAY NEED TO BE REMOVED. SEE THE ARBORIST REPORT FOR TRENCHING SPECIFICATIONS RELATED TO TREE PROTECTION.
  - (K) CONTRACTOR TO INSTALL RIGHT TURN ONLY SIGN AS PER SAANICH STANDARD DRAWING DES 34.
  - (L) LPT SHOWN SCHEMATICALLY. DESIGN DETAILS BY OTHERS.
  - (M) INSTALL DRIVEWAY DROP AS PER SAANICH STANDARD DRAWING C755.
  - (N) CONSTRUCT LOADING BAY ONSITE AS SHOWN.



PLAN - SAANICH AND MCKENZIE  
H 1:200

**SAANICH AND MCKENZIE STORMWATER MANAGEMENT NOTES AND CALCULATIONS:**

THE DEVELOPMENT IS WITHIN A "TYPE 1" WATERSHED.

REQUIRED STORAGE: 200m<sup>3</sup>/ha OF IMPERVIOUS AREA.

SITE AREA - SITE = 3071m<sup>2</sup>  
% IMPERVIOUS = 52% (FROM EBA SITE PLAN)

STORAGE = 32m<sup>3</sup>

(C) STORAGE PROVIDED BY STORMTECH RETENTION CHAMBERS COMPLETE WITH FLOW CONTROL MANHOLE, PERFORATED DRAIN MAIN AND CONNECTION TO BUILDING FOOTING DRAINS FOR HIGH WATER TABLE RELIEF. 17 RETENTION CHAMBERS WILL PROVIDE THE REQUIRED STORAGE VOLUME.

KEY PLAN  
NTS

**SAANICH AND MCKENZIE  
CONCEPTUAL SERVICING PLAN,  
AND FRONTAGE IMPROVEMENTS**

Scale horiz 1:200 Scale vert. ---  
Sheet 1 of 1  
Eng Project No 30124

**JEA** J E ANDERSON & ASSOCIATES  
SURVEYORS - ENGINEERS  
VICTORIA NANAIMO PARKSVILLE  
PHONE 250-727-2214 FAX 250-727-3395

**RECEIVED**  
JUN 09 2020  
PLANNING DEPT  
DISTRICT OF SAA

