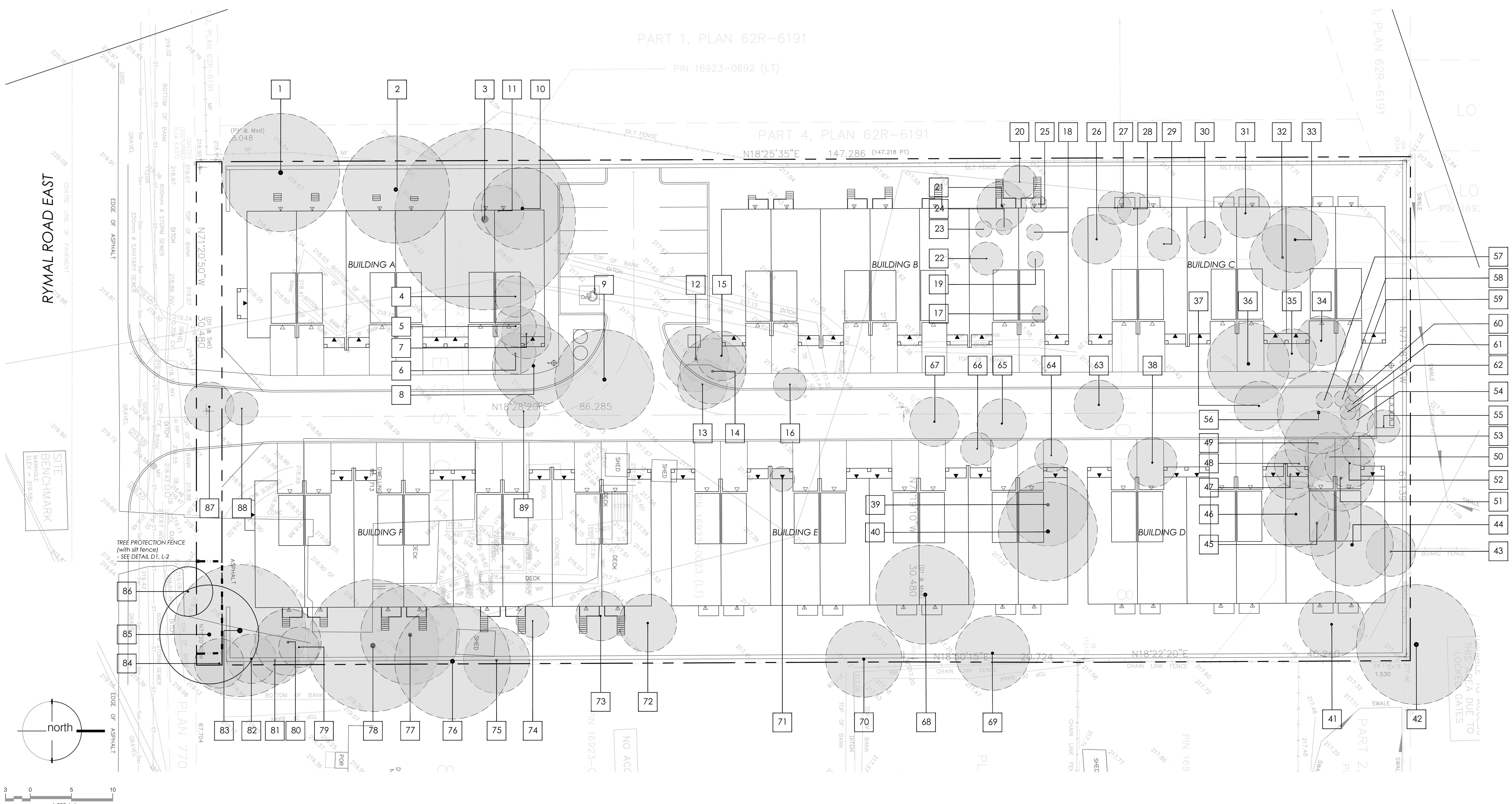
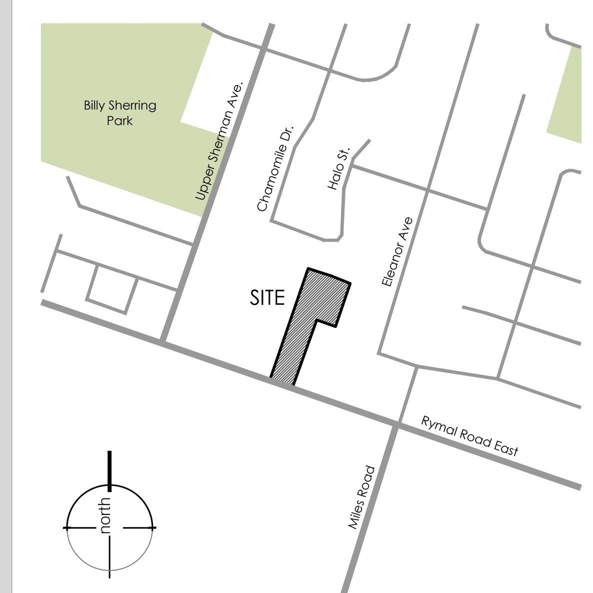
project #: 18-163





LEGEND

(dashed line)	property line
2	existing tree number (refer to chart)
(open circle)	existing vegetation to remain
(shaded circle)	existing vegetation to be removed
217.68	existing elevations
(shaded band)	tree protection fence (with silt fence) - see detail D1, L-2

DRAFT
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Nate Torenvlient, ISA Certified Arborist (ON-1782A) on September 12, 2018 and December 1, 2020

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2018-09-27	Issued for review
2	2020-12-04	Issued for review
3	2021-04-05	Issued for review
4	2021-04-15	Issued for submission

STAMP

NOTE

1. A 'Verification of Tree Protection Letter' by the tree management professional is to be provided to the Director of Planning at the City of Hamilton to confirm that all tree protection measures have been installed prior to the undertaking of any grading activities.

CLIENT
Royal Living Development Group

MUNICIPALITY
City of Hamilton

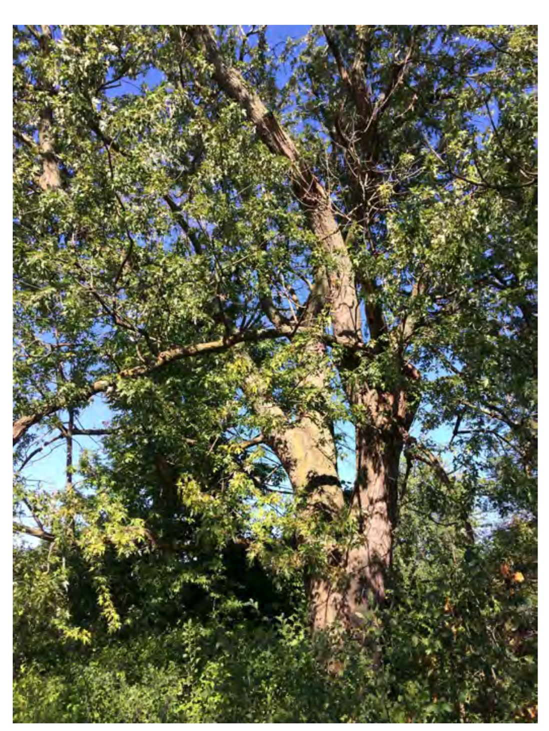
PROJECT
705 & 713 Rymal Road East Residences

MUNICIPAL FILE NUMBER
FC-18-057

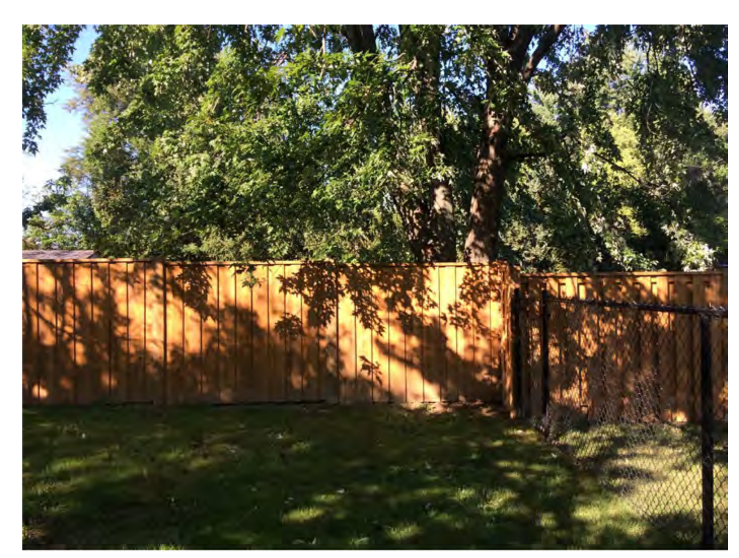
SHEET
Tree Protection Plan

L-1

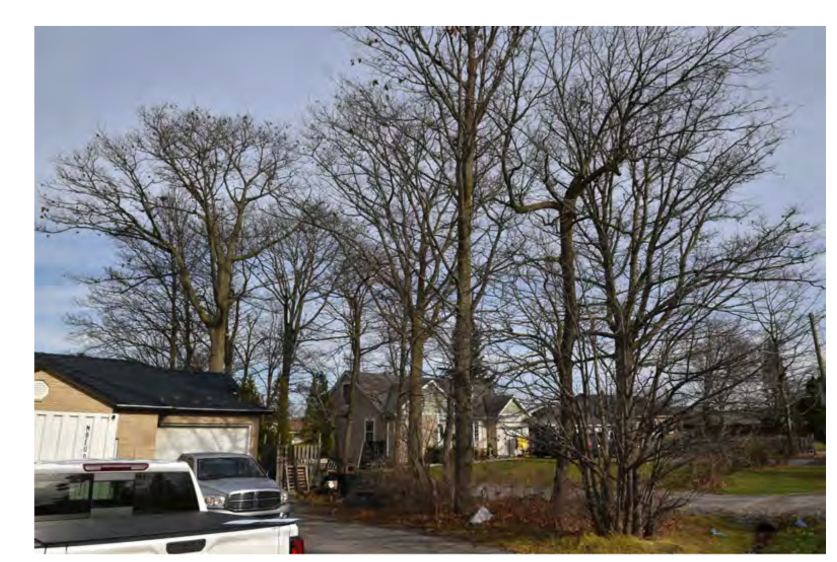
Tree #1


Tree #2

Tree #21-24


Tree #42

Trees #57-62


Trees #71-86

adesso design inc.
landscape architecture
218 Locke Street South, 2nd Floor
Hamilton, ON L8P 4B4
t. 905.526.8876
www.adessodesigninc.ca

project #: 18-163

EXISTING VEGETATION IDENTIFICATION TABLE

TREE/UNIT NO.	SPECIES (COMMON NAME)	SPECIES (BOTANICAL NAME)	DBH (cm)	# OF TREES =/>10cm DBH	CROWN CLASS*	CONDITION	VEGETATION VALUE & PHYSICAL CONSTRAINTS	POTENTIAL IMPACTS FROM CONSTRUCTION	OWNERSHIP	RECOMMENDATION
1	*Burr Oak*	*Quercus macrocarpa*	*62*	*1*	*D*	*Good*	*-*	*Grading within root zone due to proposed building and proposed retaining wall.*	*On property*	*REMOVE*
2	*Silver Maple*	*Acer saccharinum*	*37*	*1*	*D*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
3	*Silver Maple*	*Acer saccharinum*	*100*	*1*	*D*	*Fair-Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
4	*Dead*	*-*	*-*	*-*	*-*	*Dead*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
5	*Scots Pine*	*Pinus sylvestris*	*35*	*1*	*D*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
6	*Scots Pine*	*Pinus sylvestris*	*24*	*1*	*D*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
7	*Apple*	*Malus sp.*	*37*	*1*	*S*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
8	*Black Walnut*	*Juglans nigra*	*24*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
9	*Black Walnut*	*Juglans nigra*	*43*	*1*	*D*	*Good*	*-*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
10	*White Ash*	*Fraxinus americana*	*55*	*1*	*C*	*Poor*	*EAB*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
11	*White Ash*	*Fraxinus americana*	*20*	*1*	*S*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
12	*Silver Maple*	*Acer saccharinum*	*31*	*1*	*C*	*Good*	*-*	*Grading within root zone due to proposed sidewalk*	*On property*	*REMOVE*
13	*Pear*	*Pyrus sp.*	*32*	*1*	*C*	*Poor*	*Decay at base*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
14	*Manitoba Maple*	*Acer negundo*	*25*	*1*	*C*	*Fair*	*-*	*Grading within root zone due to proposed sidewalk*	*On property*	*REMOVE*
15	*Manitoba Maple*	*Acer negundo*	*22*	*1*	*C*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
16	*Burr Oak*	*Quercus macrocarpa*	*15*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed sidewalk*	*On property*	*REMOVE*
17	*Scots Pine*	*Pinus sylvestris*	*35*	*1*	*D*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
18	*White Ash*	*Fraxinus americana*	*17*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
19	*Scots Pine*	*Pinus sylvestris*	*10*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
20	*Shagbark Hickory*	*Carya ovata*	*21*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed retaining wall*	*On property*	*REMOVE*
21	*Burr Oak*	*Quercus macrocarpa*	*17*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
22	*Scots Pine*	*Pinus sylvestris*	*15*	*1*	*S*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
23	*Basswood*	*Tilia americana*	*13*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
24	*Scots Pine*	*Pinus sylvestris*	*12*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
25	*White Ash*	*Fraxinus americana*	*11*	*1*	*C*	*Poor*	*Damage on trunk, not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
26	*American Elm*	*Ulmus americana*	*18*	*1*	*D*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
27	*White Ash*	*Fraxinus americana*	*15 [10,11]*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
28	*Common Buckthorn*	*Rhamnus cathartica*	*22*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
29	*White Ash*	*Fraxinus americana*	*11*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
30	*White Ash*	*Fraxinus americana*	*12*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
31	*Shagbark Hickory*	*Carya ovata*	*16*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
32	*Shagbark Hickory*	*Carya ovata*	*20*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
33	*White Ash*	*Fraxinus americana*	*24*	*1*	*C*	*Poor*	*EAB, not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
34	*Basswood*	*Tilia americana*	*19*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
35	*Basswood*	*Tilia americana*	*15*	*1*	*C*	*Poor*	*Woodpecker damage, not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
36	*Shagbark Hickory*	*Carya ovata*	*27*	*1*	*C*	*Good*	*Woodpecker damage, not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
37	*Basswood*	*Tilia americana*	*18*	*1*	*C*	*Fair*	*Woodpecker damage, not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
38	*American Elm*	*Ulmus americana*	*19*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
39	*Silver Maple*	*Acer saccharinum*	*25 [14,20]*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
40	*Manitoba Maple*	*Acer negundo*	*26 [22, 14]*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
41	*Black Walnut*	*Juglans nigra*	*40*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
42	*Silver Maple*	*Acer saccharinum*	*70*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building and proposed retaining wall*	*Neighbouring*	*REMOVE*
43	*Downy Hawthorn*	*Crataegus mollis*	*multi*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
44	*Downy Hawthorn*	*Crataegus mollis*	*24 [21,10]*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
45	*Basswood*	*Tilia americana*	*26*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
46	*Downy Hawthorn*	*Crataegus mollis*	*15*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
47	*Basswood*	*Tilia americana*	*14*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
48	*Basswood*	*Tilia americana*	*19*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
49	*Basswood*	*Tilia americana*	*24 [16,14,11]*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
50	*Basswood*	*Tilia americana*	*14*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
51	*Basswood*	*Tilia americana*	*16*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
52	*Basswood*	*Tilia americana*	*14*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
53	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
54	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
55	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed sidewalk*	*On property*	*REMOVE*
56	*Red Oak*	*Quercus rubra*	*28*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
57	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
58	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
59	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed sidewalk*	*On property*	*REMOVE*
60	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
61	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
62	*Basswood*	*Tilia americana*	*12*	*1*	*C*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
63	*American Elm*	*Ulmus americana*	*19*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
64	*American Elm*	*Ulmus americana*	*12*	*1*	*C*	*Poor*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
65	*Burr Oak*	*Quercus macrocarpa*	*17*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
66	*American Elm*	*Ulmus americana*	*12*	*1*	*D*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed driveway*	*On property*	*REMOVE*
67	*American Elm*	*Ulmus americana*	*24 [16,18]*	*1*	*D*	*Fair*	*Not surveyed*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*
68	*Manitoba Maple*	*Acer negundo*	*40*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
69	*Manitoba Maple*	*Acer negundo*	*23*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building,*	*On property*	*REMOVE*
70	*Manitoba Maple*	*Acer negundo*	*37 [22, 25, 15]*	*1*	*D*	*Fair*	*Growing in fence, boundary tree*	*Grading within root zone due to proposed retaining wall*	*Boundary*	*REMOVE*
71	*Red Maple*	*Acer rubrum*	*12*	*1*	*D*	*Fair*	*Poor form*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
72	*White Spruce*	*Picea glauca*	*23*	*1*	*C*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
73	*White Spruce*	*Picea glauca*	*18*	*1*	*C*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
74	*White Spruce*	*Picea glauca*	*14*	*1*	*C*	*Good*	*-*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
75	*Basswood*	*Tilia americana*	*32*	*1*	*C*	*Fair*	*Not surveyed. Growing in fence*	*Grading within root zone due to proposed retaining wall*	*Boundary*	*REMOVE*
76	*Shagbark Hickory*	*Carya ovata*	*34*	*1*	*C*	*Good*	*Not surveyed. Boundary tree*	*Grading within root zone due to proposed building,*	*Boundary*	*REMOVE*
77	*Red Maple*	*Acer rubrum*	*53 [18, 22, 41]*	*1*	*C*	*Fair*	*Not surveyed. Growth in shade of surrounding trees*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
78	*Red Oak*	*Quercus rubra*	*83*	*1*	*D*	*Good*	*Not surveyed*	*Grading within root zone due to proposed building*	*On property*	*REMOVE*
79	*Red Oak*	*Quercus rubra*	*14*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed retaining wall*	*On property*	*REMOVE*
80	*Basswood*	*Tilia americana*	*25*	*1*	*C*	*Poor*	*Not surveyed. Large scar on base of trunk*	*Grading within root zone due to proposed retaining wall*	*On property*	*REMOVE*
81	*Ironwood*	*Ostrya virginiana*	*23*	*1*	*C*	*Good*	*Not surveyed. Boundary tree*	*Grading within root zone due to proposed retaining wall*	*Boundary*	*REMOVE*
82	*Black Cherry*	*Prunus serotina*	*25*	*1*	*C*	*Good*	*Not surveyed. Boundary tree*	*Grading within root zone due to proposed retaining wall*	*Boundary*	*REMOVE*
83	*Red Oak*	*Quercus rubra*	*48*	*1*	*D*	*Good*	*Not surveyed. Boundary tree*	*Grading within root zone due to proposed retaining wall*	*On property*	*REMOVE*
84	*White Elm*	*Ulmus americana*	*14*	*1*	*C*	*Good*	*Not surveyed*	*Grading within root zone due to proposed retaining wall*	*Boundary*	*REMOVE*
85	*Basswood*	*Tilia americana*	*36*	*1*	*C*	*Good*	*Not surveyed. Significant lean toward road*	*None*	*On property*	*SAVE*
86	*Basswood*	*Tilia americana*	*multi.*	*1*	*S*	*Fair*	*Not surveyed. Appears to be sprouts from cut stump*	*None*	*Municipal R.O.W.*	*SAVE*
87	*Siberian Elm*	*Ulmus pumila*	*18*	*1*	*C*	*Poor*	*Not surveyed. Poor form - sprouts from cut stump*	*Grading within root zone due to proposed road*	*On property*	*REMOVE*
88	*Siberian Elm*	*Ulmus pumila*	*15*	*1*	*D*	*Fair*	*Not surveyed. Poor form - sprouts from cut stump*	*Grading within root zone due to proposed road*	*On property*	*REMOVE*
89	*Siberian Elm*	*Ulmus pumila*	*13*	*1*	*D*	*Fair*	*Not surveyed. Poor form*	*Grading within root zone due to proposed internal road*	*On property*	*REMOVE*

Total Number of Trees =/> 10cm DBH 86
Proposed for Removal

MIGRATORY BIRDS AND NESTS:

1. *The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically:*
   - *No tree removal or construction activity shall contravene the Act.*
   - *Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 31.*
   - *If work must occur during the migratory bird breeding season, a nest survey should be taken by a qualified avian biologist.*
   - *A mitigation plan (showing active nests and appropriate buffers) may be required for review and approval by the Canadian Wildlife Services.*

TREE REMOVAL:

1. *No trees shall be removed prior to municipal approvals of the Tree Management/Tree Preservation Plan.*

BOUNDARY TREES:

2. *Note that boundary trees are protected under the Ontario Forestry Act. Boundary trees are defined in the Forestry Act (Section 10.2) and are considered shared or co-owned property. The Forestry Act indicates that it is a prosecutable offense for one co-owner to injure or cut down a boundary tree without the other co-owner's permission.*
3. *Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.*
4. *An ISA certified Arborist should be on site prior to any work being performed within the rootzone of a boundary or neighbouring tree to perform root pruning as required.*

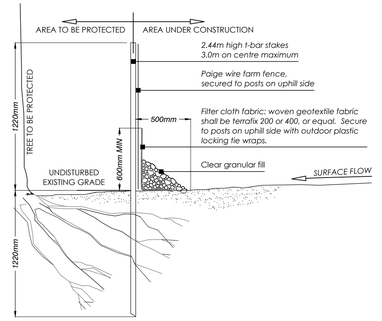
** CROWN CLASS*
Dominant- (D) Emergent canopy (receives full sunlight)
Co-dominant - (C) Not fully emergent (top of canopy receives sunlight)
Intermediate - (I) Sub-canopy tree (receives partial sunlight)

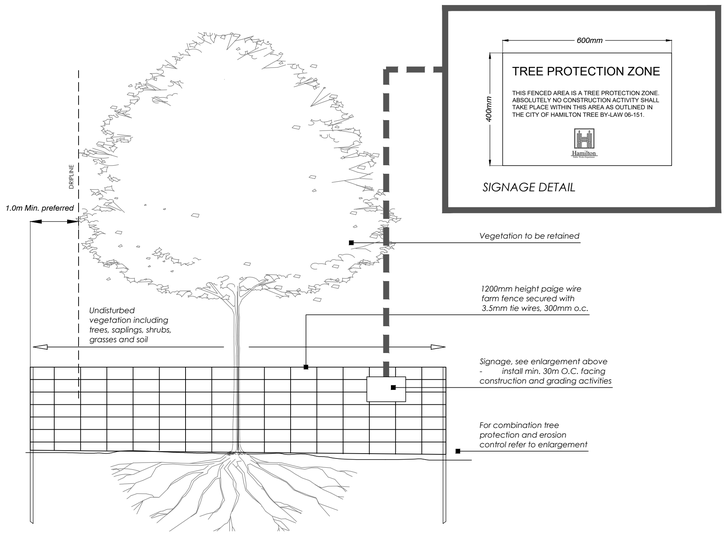
*** CONDITION - consideration of trunk integrity, crown structure and crown vigor*
Good - few or no issues related to trunk integrity, crown structure or crown vigor
Fair - minor issues related to trunk integrity, crown structure (form, some dead or damaged branches) or crown vigor (20-80% healthy foliage)
Poor - issues with trunk integrity such as cavities or exposed dead wood, poor crown structure (poor form, no clear leader, significant dead or damaged branches) or poor crown vigor (<20% healthy foliage)

** CONDITION OF TREES*
The decision to remove or retain a tree is subject to the forecasted development impacts, the structural condition of the tree (e.g. cracks, cavities, decay, weak branching, leaning, hazard potential), the biological condition of the tree (e.g. pest or disease concerns, overall health) and the suitability of the tree in its location (e.g. hardiness, soil conditions, salt tolerance, visual obstruction, available soil volume)

NOTES:

1. *The area within the dripline of all existing trees shall be properly protected with temporary fencing.*
2. *The area within the protective fencing shall remain undisturbed with no construction activity, grade changes, surface treatment, compaction, or excavation. Area shall not be used for the storage of building materials or equipment access/storage or project related garbage.*
3. *Tree protection measures shall be installed prior to any demolition, tree removal or construction and shall remain until the completion of fine grading and sodding or seeding.*
4. *Prune all trees for dead, diseased, weak or hazardous branches only. Also trim back branches which will interfere with construction, prune for structural restoration where necessary.*
5. *No stockpiles and/or excavated material shall be placed within the tree preservation area.*
6. *No rigging cable shall be wrapped around or installed to trees.*
7. *Where root systems of protected trees are exposed directly adjacent to or damaged by construction work they are to be root pruned and the area back filled with topsoil to prevent root desiccation.*
8. *Any fine grading within the preservation area is to be done by hand. no heavy equipment is permitted within the preservation zone.*
9. *Sediment accumulations to be removed by subdivider/builder when sediment deposits reach within 150mm of top of filter fabric barrier.*
10. *City of Hamilton Urban Forester to be contacted and a site visit to be coordinated between the City of Hamilton, the Developer and the qualified arborist performing tree service prior to any alteration of municipal trees.*
11. *A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon request from the City of Hamilton Forestry & Horticulture representative.*
12. *This detail does not represent any particular tree species.*





Tree Protection Fencing (with silt fence)

SCALE: NTS

D
1

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Nate Torenvlient, ISA Certified Arborist (ON-1782A) on September 12, 2018 and December 1, 2020

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
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4	2021-04-15	Issued for submission

STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATRUCCI
OALA MEMBER

CLIENT
Royal Living Development Group

MUNICIPALITY
City of Hamilton

PROJECT
705 & 713 Rymal Road East Residences

MUNICIPAL FILE NUMBER
FC-18-057

SHEET
Tree Protection Plan Chart
L-2

adesso design inc.
landscape architecture

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FILE:G:\Project Data\Projects\2018\18-163 705 Rymal Rd E\Working\01 Current Drawings\18-163-Sp1_SKETCH.P...\Vegetation chart
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