

**Constraint Class 1: No Prominent Constraints**

Large trees: trees with height greater than 9m.

| Botanical Name                                              | Code | Conifer | Height (m) | Spread (m)           | Tree Form     | Flower Colour    | Fall Colour | Growth Rate | Longevity | Suggested Varieties                                                                                   | Benefits and Notes                                                                                                                                                                                                                                    |
|-------------------------------------------------------------|------|---------|------------|----------------------|---------------|------------------|-------------|-------------|-----------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Preferred Street Trees for areas with no constraints</b> |      |         |            |                      |               |                  |             |             |           |                                                                                                       |                                                                                                                                                                                                                                                       |
| <i>Acer cappadocicum</i><br>Coliseum Maple                  | ACCP |         | 10<br>9    | rounded<br>spreading | inconspicuous | golden<br>yellow | f           | A           |           |                                                                                                       | Benefits:<br>Notes: bright red spring growth, not commonly available in the nursery trade                                                                                                                                                             |
| <i>Acer platanoides</i><br>Norway Maple                     | ACPL |         | 20<br>18   | rounded<br>oval      | inconspicuous | varies           | m           | A           |           | Crimson King, Emerald Queen, Columnar, Columnarbroad, Deborah, Parkway                                | Benefits: adaptable to many soils; easily transplanted<br>Notes: full sun is best                                                                                                                                                                     |
| <i>Acer pseudoplatanus</i><br>Sycamore Maple                | ACPS |         | 18<br>15   | oval<br>rounded      | inconspicuous | no<br>change     | m           | A           |           | Spaethii                                                                                              | Benefits: easily transplanted and established; very adaptable; tolerates salt and seaside locations; tolerates high pH and calcareous soils<br>Notes: full sun is best, but can take light shade; prefers cool environment                            |
| <i>Acer rubrum</i><br>Red Maple                             | ACRU |         | 18<br>15   | pyramidal<br>oval    | red           | red<br>orange    | f           | A           |           | Autumn Flame, Bowhall, Karpick, October Glory, Franksred, Scarsen, Red Sunset, Morgan, Green Mountain | Benefits: easy to transplant and establish; adaptable;<br>Notes: moderate biogenic emissions; high canopy; prefers moist, acidic soils; on alkaline soils develops manganese chlorosis; full sun best for development, but can tolerate partial shade |
| <i>Aesculus x carnea</i><br>Horsechestnut                   | AECA |         | 15<br>12   | rounded<br>umbrella  | pink to red   | bronze           | m           | A           |           | Briotii, Fort McNair                                                                                  | Benefits: less prone to leaf scorch, leaf blotch and mildew than <i>A. hippocastanum</i><br>Notes: low canopy                                                                                                                                         |
| <i>Carpinus betulus</i><br>Hornbeam                         | CABE |         | 12<br>12   | pyramidal            | inconspicuous | red gold         | s - m       | A           |           | Fastigiata, Franz Fontaine                                                                            | Benefits: very soil adaptable as long as the soil is well-drained; tolerates urban conditions and pollution<br>Notes:                                                                                                                                 |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
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| Botanical Name                                      | Code | Conifer | Height (m) | Tree Form                   | Flower Colour          | Fall Colour        | Growth Rate | Longevity | Suggested Varieties       | Benefits and Notes                                                                                                                                                       |
|-----------------------------------------------------|------|---------|------------|-----------------------------|------------------------|--------------------|-------------|-----------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cercidiphyllum japonicum</i><br>Katsura Tree     | CEJA |         | 18<br>12   | oval<br>rounded<br>umbrella | inconspicuous          | red gold           | s           | A         | Pendula                   | Benefits: pH adaptable<br>Notes: not easy to transplant; requires water during establishment and dry periods                                                             |
| <i>Fagus sylvatica</i><br>European Beech            | FASY |         | 25<br>20   | oval                        | inconspicuous          | bronze             | m - s       | A - L     | Riversii                  | Benefits:<br>Notes: prefers moist, well-drained, acidic soil; does not like excessively wet soils; shallow, wide root system                                             |
| <i>Fraxinus excelsior</i><br>European Ash           | FREX |         | 20<br>15   | oval<br>rounded             | inconspicuous          | no<br>change       | m-f         | L         | none commonly available   | Benefits: smog tolerant<br>Notes: male plants preferred; good for difficult growing sites; easy to establish and transplant                                              |
| <i>Ginkgo biloba</i><br>Maidenhair Tree             | GIBI |         | 25<br>15   | pyramidal                   | inconspicuous          | bright<br>yellow   | m           | L         | Magyar, Fairmount, Sentry | Benefits: adaptable to pH and almost any other conditions; tolerant of pollution, salt air, and heat; pest free<br>Notes: do not plant females-- fruit smells unpleasant |
| <i>Liquidambar styraciflua</i><br>Sweetgum          | LIST |         | 14<br>9    | pyramidal                   | inconspicuous          | red gold<br>purple | m - f       | L         | Worplesdon                | Benefits:<br>Notes: high biogenic emissions; best in deep, moist, slightly acid soils; surface roots may lift sidewalks                                                  |
| <i>Liriodendron chinensis</i><br>Chinese Tulip Tree | LRCH |         | 25<br>12   | pyramidal                   | yellow                 | yellow             | f           | L         |                           | Benefits: attractive to birds and butterflies<br>Notes: moderate biogenic emissions; fragrant flowers                                                                    |
| <i>Magnolia kobus</i><br><i>Kobus magnolia</i>      | MAKO |         | 15<br>7.5  | rounded                     | showy, white-<br>pink  | yellow             | m           | A         |                           | Benefits: adaptable, range of soils<br>Notes: unknown biogenic emissions; flowers early in spring, select root stock                                                     |
| <i>Metasequoia glyptostroboides</i><br>Dawn Redwood | MTGL | ✓       | 20<br>8    | conical                     | inconspicuous          | bronze             | f           | L         | National                  | Benefits:<br>Notes: requires heavy watering                                                                                                                              |
| <i>Quercus acutissima</i><br>Sawtooth Oak           | QUAC |         | 13<br>12   | rounded                     | golden male<br>catkins | golden<br>yellow   | m-f         | L         |                           | Benefits: tolerant of drought and compacted soils; attracts wildlife<br>Notes: adaptable; clean foliage; easy to transplant                                              |

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|--------------------------------------------|------|---------|------------|------------|----------------------------------|---------------|--------------------|-------------|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Quercus palustris</i><br>Pin Oak        | QUPA |         | 16<br>12   |            | pyramidal<br>rounded<br>umbrella | inconspicuous | bronze<br>red gold | m - f       | L         | Crownright                | Benefits: easily transplanted<br>Notes: fast growing for an oak                                                                                                     |
| <i>Quercus phellos</i><br>Willow Oak       | QUPH |         | 20<br>12   |            | rounded                          | inconspicuous | yellow<br>brown    | m-f         | L         |                           | Benefits: adaptable<br>Notes: high biogenic emissions; tolerates heat, drought, pollution, compacted soils, and standing water                                      |
| <i>Robinia pseudoacacia</i><br>Locust      | ROPS |         | 13<br>10   |            | oval                             | white         | gold               | f           | A         | Purple Robe, Frisia       | Benefits: easily transplanted and grown; tolerant of salt, heat, pollution<br>Notes: high biogenic emissions; tolerant of most soils                                |
| <i>Tilia tomentosa</i><br>Silver Linden    | TITO |         | 18<br>12   |            | oval                             | yellow        | yellow             | f           | A         |                           | Benefits: attractive to insects and birds<br>Notes: tolerates range of wide range of soils, wind, salt, and pollution                                               |
| <i>Zelkova serrata</i><br>Japanese Zelkova | ZESE |         | 25<br>18   |            | rounded<br>umbrella              | inconspicuous | bronze<br>red gold | m - f       | A         | Green Vase, Village Green | Benefits: easy to transplant and establish<br>Notes: low biogenic emissions; shows fairly good resistance to Dutch Elm Disease and bacterial canker, but not immune |

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|--------------------------------------------------------------------|------|---------|------------|------------------|---------------|-----------------|-------------|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other trees that may do well on streets with no constraints</b> |      |         |            |                  |               |                 |             |           |                                        |                                                                                                                                                                                                                                                          |
| <i>Abies grandis</i> *<br>Grand Fir                                | ABGR | ✓       | 20<br>10   | pyramidal        | inconspicuous | no change       | m - f       | L         | none commonly available                | Benefits:<br>Notes: moderate biogenic emissions;                                                                                                                                                                                                         |
| <i>Acer platanoides</i> `Crimson King`<br>Crimson King Maple       | ACPL |         | 18<br>15   | rounded          | inconspicuous | brown purple    | m           | A         | N/A                                    | Benefits: dense shade; high large canopy; tolerates poor soil conditions; heat and drought tolerant<br>Notes: surface-rooted; maroon leaf colour; may seed itself                                                                                        |
| <i>Acer platanoides</i> `Emerald Queen`<br>Emerald Queen Maple     | ACPL |         | 20<br>18   | oval rounded     | inconspicuous | golden yellow   | m - f       | A         | N/A                                    | Benefits: adapted to poor soil; heat and drought-tolerant<br>Notes: erect-spreading form; surface-rooted; brilliant red new growth; may seed itself                                                                                                      |
| <i>Acer saccharum</i><br>Sugar Maple                               | ACSC |         | 18<br>15   | oval rounded     | inconspicuous | red gold orange | m           | L         | Bonfire, Commemoration, Green Mountain | Benefits:<br>Notes: extensive canopy; does not perform well when root zone is restricted; prefers well-drained, moist fertile soils; not tolerant of high heat, pollution, road salt; although shade tolerant, full sun is needed for proper development |
| <i>Acer saccharum</i> `Legacy`<br>Legacy Sugar Maple               | ACSC |         | 18<br>15   | oval rounded     | inconspicuous | yellow orange   | m - f       | L         | N/A                                    | Benefits: dense shade; desirable wildlife tree; good drought tolerance<br>Notes: best suited variety for the west coast                                                                                                                                  |
| <i>Aesculus hippocastanum</i><br>Horsechestnut                     | AEHI |         | 20<br>15   | rounded          | cream         | bronze          | f           | A-L       | none commonly available                | Benefits:<br>Notes: avoid hot, dry locations to minimize leaf scorch                                                                                                                                                                                     |
| <i>Arbutus menziesii</i> *<br>Pacific Madrone                      | ARME |         | 18<br>10   | rounded umbrella | pink to white | no change       | m           | L         | none commonly available                | Benefits:<br>Notes: low biogenic emissions; difficult to transplant; requires excellent soil drainage; broadleaf evergreen                                                                                                                               |

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| <i>Betula jacquemontii</i><br>Jacquemontii Birch        | BEJA |         | 20<br>9    | columnar            | inconspicuous | golden<br>yellow | m - f       | A         | none commonly available | Benefits: prefers wet/moist sites<br>Notes: whitest bark of all the birches; does not tolerate drought                                                                                                                                                                                                                                     |
| <i>Betula papyrifera</i> *<br>Paper Birch               | BEPA |         | 18<br>10   | oval<br>rounded     | inconspicuous | golden<br>yellow | m           | A         | none commonly available | Benefits: tolerates wet/moist sites; easy to transplant and establish from container or B&B<br>Notes: does poorly in high summer heat, especially root zone heat; fairly soil adaptable, often found growing in sandy, gravely soils; prefers well-drained, slightly acid sandy loam soils; does not tolerate pollution or difficult sites |
| <i>Calocedrus decurrens</i><br>California Incense Cedar | CLDE | ✓       | 20<br>6    | conical             | inconspicuous | no<br>change     | s-m         | L         | none commonly available | Benefits: heat and drought tolerant<br>Notes: low biogenic emissions;                                                                                                                                                                                                                                                                      |
| <i>Catalpa speciosa</i><br>Northern Catalpa             | CTSP |         | 16<br>12   | umbrella            | white         | bronze<br>gold   | s - m       | S - A     | none commonly available | Benefits: tolerant of many soil types, but prefers deep, moist, fertile soil; withstands wet or dry and alkaline conditions and extremely hot, dry environments<br>Notes:                                                                                                                                                                  |
| <i>Cedrus atlantica</i> 'Glauca'<br>Blue Atlas Cedar    | CDAT | ✓       | 20<br>12   | conical             | inconspicuous | no<br>change     | s - m       | L         | N/A                     | Benefits: drought tolerant<br>Notes: tolerates a wide range of soils, but not wet                                                                                                                                                                                                                                                          |
| <i>Cedrus deodara</i><br>Deodar Cedar                   | CDDE | ✓       | 18<br>12   | pyramidal           | inconspicuous | no<br>change     | f           | L         | Kashmir                 | Benefits: drought tolerant once established<br>Notes: low biogenic emissions; prefers well-drained and somewhat dry soil;                                                                                                                                                                                                                  |
| <i>Chamaecyparis nootkatensis</i> *<br>Nootka Cypress   | CHNO | ✓       | 25<br>9    | conical             | inconspicuous | no<br>change     | s-m         | L         |                         | Benefits: desirable wildlife plant<br>Notes: low biogenic emissions;                                                                                                                                                                                                                                                                       |
| <i>Cladrasfis lutea</i><br>Yellowwood                   | CLLU |         | 15<br>12   | rounded<br>umbrella | white         | gold<br>orange   | s - m       | A         | none commonly available | Benefits:<br>Notes: prefers well-drained soils; tolerates alkaline and acidic soils                                                                                                                                                                                                                                                        |

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| <i>Cornus` Eddie's White Wonder`<br/>Eddie's Dogwood</i>                  | COEW |         | 10<br>6    | rounded<br>umbrella<br>vase | white           | red                      | m           | A         | N/A                     | Benefits:<br>Notes: prefers part shade; best in well-drained, acidic soils high in organic matter                                                                                                                    |
| <i>Davidia involucreata<br/>Dove Tree</i>                                 | DAIN |         | 18<br>10   | oval                        | white           | gold                     | s - m       | A         | none commonly available | Benefits:<br>Notes: prefers sun to part shade (esp. afternoon); prefers well-drained rich soil; protect from wind; exceptionally showy and unusual flower display; may take a decade or more to reach flowering size |
| <i>Fraxinus americana<br/>White Ash</i>                                   | FRAM |         | 12<br>7.5  | oval                        | inconspicuous   | gold<br>orange<br>purple | f           | A - L     | Autumn Applause         | Benefits: quite soil adaptable; easily transplanted and established; tolerant of poorly drained soils<br>Notes:                                                                                                      |
| <i>Fraxinus latifolia`*<br/>Oregon Ash</i>                                | FRLA |         | 18<br>12   | oval                        | inconspicuous   | yellow<br>brown          | m - f       | L         | none commonly available | Benefits: survives standing water in winter months; when established, need not be watered during the summer<br>Notes: provincially red-listed                                                                        |
| <i>Fraxinus oxycarpa<br/>Raywood Ash</i>                                  | FROX |         | 12<br>7.5  | oval<br>rounded             | inconspicuous   | red purple               | m           | A         | Raywood                 | Benefits:<br>Notes: somewhat drought tolerant                                                                                                                                                                        |
| <i>Gleditsia triacanthos inermis` Shademaster`<br/>Shademaster Locust</i> | GLTR |         | 18<br>13   | umbrella                    | greenish yellow | yellow<br>brown          | m           | 0         | N/A                     | Benefits: good drought tolerance<br>Notes:                                                                                                                                                                           |
| <i>Gymnocladus dioicus<br/>Kentucky Coffeetree</i>                        | GYDI |         | 18<br>12   | oval                        | inconspicuous   | gold                     | m - f       | A         | none commonly available | Benefits: drought and pollution tolerant<br>Notes:                                                                                                                                                                   |
| <i>Liriodendron tulipifera<br/>Tulip Tree</i>                             | LRTU |         | 24<br>13   | oval                        | yellow orange   | bronze<br>gold           | f           | L         | Fastigiatum             | Benefits: tolerates urban conditions<br>Notes: moderate biogenic emissions; intolerant of hot, dry sites                                                                                                             |
| <i>Magnolia grandiflora<br/>Southern Magnolia</i>                         | MAGR |         | 15<br>7    | oval<br>rounded<br>umbrella | white           | no<br>change             | m           | L         | Edith Bogue, Victoria   | Benefits:<br>Notes: moderate biogenic emissions; prefers rich, well-drained soil; somewhat drought tolerant; can not tolerate soil compaction                                                                        |

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| <i>Nothofagus antarctica</i><br>Antarctic Beech  | NOAN |         | 30<br>25   | pyramidal                   | inconspicuous | bronze<br>gold | f           | A         | none commonly available               | Benefits: tolerates drought once established<br>Notes:                                                                                                                          |
| <i>Nyssa sylvatica</i><br>Tupelo                 | NYSY |         | 25<br>20   | pyramidal<br>oval           | inconspicuous | red<br>orange  | s - m       | L         | none commonly available               | Benefits: fire resistant<br>Notes: prefers moist, well-drained, acidic, deep soils                                                                                              |
| <i>Oxydendron arboreum</i><br>Sourwood           | OXAR |         | 10<br>4    | oval                        | cream white   | red<br>orange  | s           | A         | none commonly available               | Benefits:<br>Notes: more sun translates into better fall color and more bloom; avoid polluted, urban locations                                                                  |
| <i>Paulownia tomentosa</i><br>Empress Tree       | PUTO |         | 15<br>12   | oval<br>rounded             | purple        | bronze<br>gold | f           | S - A     | none commonly available               | Benefits: drought tolerant; salt tolerant;<br>Notes: prefers wet, deep, well-drained soils                                                                                      |
| <i>Picea engelmannii</i> **<br>Engleman Spruce   | PIEN | ✓       | 15<br>6    | pyramidal                   | inconspicuous | no<br>change   | m           | L         | none commonly available               | Benefits:<br>Notes: high biogenic emissions; best in well-drained, loamy, organic soils                                                                                         |
| <i>Picea omorika</i><br>Serbian Spruce           | PIOM | ✓       | 18<br>7    | columnar<br>pyramidal       | inconspicuous | no<br>change   | s - m       | L         | Pendula                               | Benefits: pH adaptable; tolerates pollution<br>Notes:                                                                                                                           |
| <i>Pinus contorta</i> *<br>Shore Pine            | PNCO | ✓       | 12<br>6    | pyramidal                   | inconspicuous | no<br>change   | f           | L         | Contorta, Latifolia                   | Benefits: grows in a wide variety of soil conditions<br>Notes: moderate biogenic emissions;                                                                                     |
| <i>Pinus nigra</i><br>European Pine              | PNNI | ✓       | 20<br>12   | pyramidal                   | inconspicuous | no<br>change   | s-m         | L         |                                       | Benefits:<br>Notes:                                                                                                                                                             |
| <i>Pinus ponderosa</i> *<br>Ponderosa Pine       | PNPO | ✓       | 25<br>9    | pyramidal                   | inconspicuous | no<br>change   | m - f       | L         | none commonly available               | Benefits: drought tolerant; salt tolerant<br>Notes: moderate biogenic emissions;                                                                                                |
| <i>Platanus x acerifolia</i><br>London Planetree | PLAC |         | 15<br>12   | oval<br>rounded<br>umbrella | inconspicuous | bronze<br>gold | f           | L         | Bloodgood, Yarwood,<br>Liberty Island | Benefits: easily transplanted; pollution tolerant;<br>good for difficult growing sites<br>Notes: high biogenic emissions; best in deep, moist, fertile soil, but very adaptable |

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| <i>Pseudotsuga menziesii</i> *<br>Douglas Fir         | PSME | ✓       | 25<br>6    | pyramidal             | inconspicuous | no change         | s           | L         | Fastigiata, Glauca      | Benefits:<br>Notes: moderate biogenic emissions; generally dislikes hot, dry sites                                                      |
| <i>Pyrus calleryana</i><br>Ornamental Pear            | PYCA |         | 15<br>10   | oval rounded          | white         | red gold purple   | m           | A         | Aristocrat, Respire     | Benefits: tolerant of dry and hot conditions; great year round tree (flowers, fall color and unique winter habit )<br>Notes:            |
| <i>Quercus coccinea</i><br>Scarlet Oak                | QUCO |         | 16<br>12   | oval rounded umbrella | inconspicuous | bronze red orange | m - f       | L         | none commonly available | Benefits:<br>Notes: high biogenic emissions; difficult to transplant; prefers somewhat dry, acidic, sandy soils                         |
| <i>Quercus rubra</i><br>Red Oak                       | QURU |         | 18<br>16   | oval rounded umbrella | inconspicuous | bronze red orange | m - f       | L         | Aurea                   | Benefits:<br>Notes: high biogenic emissions; withstands urban conditions well; grows rapidly for an oak; easily transplanted for an oak |
| <i>Sequoiadendron giganteum</i><br>Giant Sequoia      | SQGI | ✓       | 20<br>9    | pyramidal             | inconspicuous | no change         | m           | L         |                         |                                                                                                                                         |
| <i>Sorbus aucuparia</i><br>Mountain Ash               | SOAU |         | 10<br>6    | oval                  | white         | red gold orange   | m - f       | A         | Cardinal Royal          | Benefits:<br>Notes: stress predisposes the plant to disease and insect problems                                                         |
| <i>Stewartia pseudocamellia</i><br>Japanese Stewartia | SWPS |         | 12<br>10   | pyramidal             | orange white  | bronze red purple | s - m       | A         | none commonly available | Benefits:<br>Notes: does not establish easily; dislikes intense heat and drought                                                        |
| <i>Taxodium distichum</i><br>Bald Cypress             | TADI | ✓       |            | pyramidal             | inconspicuous | no change         | m - f       | A - L     | none commonly available | Benefits:<br>Notes: tolerant of permanently wet soils, but also tolerant of normal soils as long as they are not excessively dry        |

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| <i>Thuja plicata</i> *<br>Western Red Cedar                 | THPL | ✓       |            | pyramidal                     | inconspicuous | no change   | s           | L         | none commonly available | Benefits:<br>Notes: low biogenic emissions; generally quite adaptable and tolerant once established; a favorite food of deer                    |
| <i>Thuja plicata</i> 'Excelsa'<br>Excelsa Western Red Cedar | THPL | ✓       | 6<br>2     | pyramidal                     | inconspicuous | bronze      | s           | 0         | N/A                     | Benefits:<br>Notes:                                                                                                                             |
| <i>Tilia americana</i><br>Linden                            | TIAM |         | 10<br>8    | pyramidal<br>oval<br>umbrella | white yellow  | gold        | m           | A         | Redmond                 | Benefits: tolerant of difficult, dry or heavy soils; easily transplanted<br>Notes: attracts bees when in bloom                                  |
| <i>Tilia cordata</i><br>Littleleaf Linden                   | TICO |         | 15<br>10   | pyramidal<br>oval<br>umbrella | white yellow  | gold        | s - m       | A         | none commonly available | Benefits: tolerant of difficult growing sites and soils; tolerant of urban conditions; pollution tolerant<br>Notes: attracts bees when in bloom |
| <i>Tilia euchlora</i><br>Crimean Linden                     | TIEU |         | 13<br>9    | oval<br>rounded<br>umbrella   | white yellow  | gold        | s - m       | A         | none commonly available | Benefits: tolerant of difficult growing sites and soils; tolerates urban conditions; pollution tolerant<br>Notes: attracts bees when in bloom   |
| <i>Tsuga heterophylla</i><br>Hemlock                        | TSHE | ✓       | 15         | pyramidal                     | inconspicuous | no change   | m - f       | L         | none commonly available | Benefits:<br>Notes: moderate biogenic emissions; best in sun, but can take considerable shade                                                   |
| <i>Ulmus</i> 'Homestead'<br>Homestead Elm                   | UL   |         | 18<br>15   | pyramidal<br>oval             | inconspicuous | gold        | f           | 0         | N/A                     | Benefits:<br>Notes: resistant to Dutch Elm disease                                                                                              |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable

**Constraint Class 2: Narrow Boulevard**

Medium trees: trees with a height greater than 9m and a narrow form.

| Botanical Name                                                   | Code | Conifer | Height (m) | Tree Form          | Flowers       | Fall Colour       | Growth Rate | Longevity | Suggested Varieties | Benefits and Notes                                                                                                                                               |
|------------------------------------------------------------------|------|---------|------------|--------------------|---------------|-------------------|-------------|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Acer campestre</i> Hedge Maple                                | ACFR |         | 15<br>5    | oval rounded       | inconspicuous | red orange        | f           | A         | N/A                 | Benefits: brilliant, long-lasting fall colour;<br>Notes: tolerates drought and poor soil conditions                                                              |
| <i>Acer nigrum</i> `Green Column` Green Column Maple             | ACNI |         | 15<br>6    | columnar           | inconspicuous | yellow orange     | m           | A         | N/A                 | Benefits: good close to buildings; heat and drought tolerant; adapted to poor soil<br>Notes:                                                                     |
| <i>Acer platanoides</i> `Columnar` Columnar Norway Maple         | ACPL |         | 12<br>4.5  | columnar           | green yellow  | gold              | s           | A         | N/A                 | Benefits: easily transplanted; adapted to poor soil conditions<br>Notes: shallow root system                                                                     |
| <i>Acer platanoides</i> `Crimson Sentry` Crimson Sentry Maple    | ACPL |         | 13<br>6    | pyramidal          | inconspicuous | maroon red bronze | m           | A         | N/A                 | Benefits: pollution tolerant; adapted to poor soil conditions<br>Notes:                                                                                          |
| <i>Acer platanoides</i> `Parkway` Parkway Maple                  | ACPL |         | 12<br>7.5  | columnar           | inconspicuous | gold              | m           | A         | N/A                 | Benefits: easily transplanted; tolerant of urban conditions for a maple<br>Notes: offers heavy shade                                                             |
| <i>Acer rubrum</i> `Armstrong` Armstrong Red Maple               | ACRU |         | 15<br>4    | columnar           | red           | red               | f           | A         | N/A                 | Benefits: easy to transplant and establish; tolerant of many conditions and adaptable<br>Notes: develops surface roots                                           |
| <i>Acer rubrum</i> `Bowhall` Bowhall Maple                       | ACRU |         | 15<br>4    | pyramidal columnar | red           | gold red orange   | m - f       | A         | N/A                 | Benefits: easily transplanted;<br>Notes: develops surface roots                                                                                                  |
| <i>Acer rubrum</i> `Karpick` Karpick Maple                       | ACRU |         | 13<br>6    | oval rounded       | red           | gold red orange   | f           | A         | N/A                 | Benefits: brilliant fall colour<br>Notes: develops surface roots                                                                                                 |
| <i>Acer rubrum</i> `Scarsen` Scarlet Sentinel Maple              | ACRU |         | 12<br>6    | oval columnar      | red           | gold red orange   | m - f       | A         | N/A                 | Benefits:<br>Notes: will tolerate a range of soil and climatic conditions including relatively wet sites but prefers moist, acidic soils; develops surface roots |
| <i>Carpinus betulus</i> `Fastigiata` Pyramidal European Hornbeam | CABE |         | 12<br>8    | pyramidal columnar | inconspicuous | red gold          | m           | A         | N/A                 | Benefits: drought tolerant; tolerates urban conditions; relatively pest free<br>Notes:                                                                           |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable

**Constraint Class 2: Narrow Boulevard**

Medium trees: trees with a height greater than 9m and a narrow form.

| Botanical Name                                                              | Code | Conifer | Height (m) | Tree Form      | Flowers       | Fall Colour     | Growth Rate | Longevity | Suggested Varieties     | Benefits and Notes                                                                                                                                              |
|-----------------------------------------------------------------------------|------|---------|------------|----------------|---------------|-----------------|-------------|-----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Fagus sylvatica</i> `Dawyck`<br>Fastigate Beech                          | FASY |         | 20<br>3    | columnar       | inconspicuous | bronze          | s - m       | A - L     | N/A                     | Benefits: tree has winter interest due to its unusual form and persistent fruits<br>Notes: moderately drought tolerant once established; develops surface roots |
| <i>Fagus sylvatica</i> `Dawyck Purple`<br>Fastigate Beech                   | FASY |         | 20<br>3    | columnar       | inconspicuous | no change       | s - m       | A - L     | N/A                     | Benefits:<br>Notes:                                                                                                                                             |
| <i>Fagus sylvatica</i> `Dawyck Gold`<br>Fastigate Beech                     | FASY |         | 20<br>3    | columnar       | inconspicuous | gold            | s - m       | A - L     | N/A                     | Benefits:<br>Notes:                                                                                                                                             |
| <i>Fraxinus americana</i> `Autumn Applause`<br>Autumn Applause Ash          | FRAM |         | 12<br>7.5  | oval           | inconspicuous | purple          | f           | L         | N/A                     | Benefits:<br>Notes: will tolerate partial shade; moderately drought tolerant                                                                                    |
| <i>Fraxinus oxycarpa</i> `Raywood`<br>Raywood Ash                           | FROX |         | 10<br>7.5  | oval rounded   | inconspicuous | red purple      | m           | A         | N/A                     | Benefits: tolerates urban conditions<br>Notes: moderately drought tolerant once established                                                                     |
| <i>Ginkgo biloba</i> `Princeton Sentry`<br>Princeton Sentry Ginkgo          | GIBI |         | 20<br>5    | columnar       | inconspicuous | gold            | m - f       | L         | N/A                     | Benefits: tolerates a wide range of soils;<br>tolerates urban conditions; beautiful fall color<br>Notes: do not plant females-- fruit smells unpleasant         |
| <i>Liriodendron tulipifera fastigiatum</i> `Arnold`<br>Fastigate Tulip Tree | LRTU |         | 20<br>6    | oval columnar  | yellow orange | bronze gold     | f           | L         | N/A                     | Benefits:<br>Notes:                                                                                                                                             |
| <i>Magnolia</i> `Galaxy`<br>Galaxy Magnolia                                 | MAGL |         | 20<br>6    | pyramidal oval | bright pink   | bronze gold     | m           | A         | N/A                     | Benefits: tolerates a wide range of soils<br>Notes:                                                                                                             |
| <i>Magnolia kobus</i><br><i>Kobus magnolia</i>                              | MAKO |         | 9<br>6     | rounded        | white pink    | no change       | s - m       | A         | Wada's Memory           | Benefits: branches resist breakage<br>Notes:                                                                                                                    |
| <i>Oxydendron arboreum</i><br><i>Sourwood</i>                               | OXAR |         | 20<br>4    | oval           | cream white   | red orange      | s           | A         | none commonly available | Benefits: relatively pest free<br>Notes: does not tolerate pollution/urban conditions                                                                           |
| <i>Prunus sargentii</i> `Columnarus`<br>Columnar Sargent Cherry             | PRSA |         | 11<br>4.5  | columnar vase  | pink          | gold red bronze | s - m       | A         | N/A                     | Benefits:<br>Notes: moderately drought tolerant once established                                                                                                |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 2: Narrow Boulevard**

Medium trees: trees with a height greater than 9m and a narrow form.

| Botanical Name                                              | Code | Conifer | Height (m) | Tree Form             | Flowers       | Fall Colour | Growth Rate | Longevity | Suggested Varieties | Benefits and Notes                                                                       |
|-------------------------------------------------------------|------|---------|------------|-----------------------|---------------|-------------|-------------|-----------|---------------------|------------------------------------------------------------------------------------------|
| <i>Prunus x hillieri</i> 'Spire'<br>Spire Cherry            | PRHI |         | 15<br>2.5  | vase                  | pink          | yellow red  | m           | A         | N/A                 | Benefits:<br>Notes:                                                                      |
| <i>Pyrus calleryana</i> 'Chanticleer'<br>Flowering Pear     | PYCA |         | 12<br>5    | pyramidal             | white         | purple red  | m           | A         | N/A                 | Benefits:<br>Notes: hardier than species                                                 |
| <i>Quercus robur</i> 'Fastigiata'<br>Fastigiata English Oak | QURO |         | 18<br>8    | columnar<br>pyramidal | inconspicuous | bronze      | m           | L         | N/A                 | Benefits: tolerates urban conditions<br>Notes: autumn foliage persists throughout winter |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable

**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                           | Code | Conifer | Height (m) | Tree Form             | Flower Colour     | Fall Colour     | Growth Rate | Longevity | Suggested Varieties                                                         | Benefits and Notes                                                                                                                 |
|----------------------------------------------------------|------|---------|------------|-----------------------|-------------------|-----------------|-------------|-----------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Low Zone: height 6m or less</b>                       |      |         |            |                       |                   |                 |             |           |                                                                             |                                                                                                                                    |
| <i>Acer ginnala</i><br>Amur Maple                        | ACGI |         | 6<br>6     | oval                  | yellow            | red gold        | s -m        | S - A     | Flame                                                                       | Benefits: very hardy; easily transplanted<br>Notes:                                                                                |
| <i>Acer palmatum</i><br>Japanese Maple                   | ACPA |         | 6<br>6     | rounded umbrella vase | inconspicuous     | red gold orange | s -m        | A         | Atropurpureum, Bloodgood, Butterfly, Crimson Queen, Sango Kaku, Versicolour | Benefits:<br>Notes: single or multi-stemmed; may suffer leaf scorch with excess sun, wind, or drought; moderate biogenic emissions |
| <i>Acer platanoides globosum</i><br>Globe Norway Maple   | ACPL |         | 4.5<br>5.5 | rounded               | inconspicuous     | gold            | s -m        | A         | N/A                                                                         | Benefits: easily transplanted; tolerates a wide range of soils<br>Notes: branches resist breakage;                                 |
| <i>Corylus americana</i><br>Filbert                      | COAM |         | 6<br>6     | rounded umbrella      | yellow brown      | bronze red      | s -m        | A         | none commonly available                                                     | Benefits: relatively pest and disease free<br>Notes: prefers shaded areas;                                                         |
| <i>Fraxinus oxycarpa aureopolia</i><br>Golden Desert Ash | FROX |         | 6<br>5.5   | rounded               | inconspicuous     | gold            | -           | -         | N/A                                                                         | Benefits:<br>Notes: unusual gold coloured bark                                                                                     |
| <i>Hamamelis x intermedia</i><br>Witch Hazel             | HMIN |         | 5.5<br>5.5 | -                     | yellow orange red | red gold orange | m           | A         | Arnold's Promise, Dianne, Jelena                                            | Benefits: relatively disease and pest free<br>Notes:                                                                               |
| <i>Holodiscus bicolor*</i><br>Ocean Spray                | HODI |         | 1.5<br>1.5 | rounded umbrella      | white cream       | gold            | f           | -         | none commonly available                                                     | Benefits:<br>Notes:                                                                                                                |
| <i>Magnolia soulangiana</i><br>Saucer Magnolia           | MASO |         | 6<br>6     | rounded umbrella vase | pink purple white | bronze gold     | m           | A         | Susan, Rustica Rubra                                                        | Benefits: tolerant of urban conditions<br>Notes: fairly adaptable to a wide range of soils; moderate biogenic emissions            |
| <i>Pinus mugo</i><br>Mugo Pine                           | PNMU | ✓       | 6<br>6     | pyramidal rounded     | inconspicuous     | no change       | s -m        | -         | Mugo, Tannenbaum                                                            | Benefits: easily transplanted;<br>Notes: tolerates some shade;                                                                     |
| <i>Sambucus racemosa*</i><br>Red-berry Elder             | SMRA |         | 6<br>6     | -                     | white cream       | 0               | f           | -         | -                                                                           | Benefits: transplants easily<br>Notes: multi-stemmed;                                                                              |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                                    | Code | Conifer | Height (m) | Spread (m)           | Tree Form     | Flower Colour        | Fall Colour | Growth Rate | Longevity               | Suggested Varieties                                                                                                                | Benefits and Notes |
|-------------------------------------------------------------------|------|---------|------------|----------------------|---------------|----------------------|-------------|-------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Medium Zone: less than 12m height</b>                          |      |         |            |                      |               |                      |             |             |                         |                                                                                                                                    |                    |
| <i>Acer truncatum</i> x 'Warrenred'<br>Pacific Sunset Maple       | ACTR |         | 9<br>7.5   | rounded<br>pyramidal | inconspicuous | red yellow<br>orange | m           | A           | N/A                     | Benefits: pest resistant; drought tolerant once established<br>Notes: best in full sun but will tolerate partly shady sites;       |                    |
| <i>Acer buergerianum</i><br>Trident Maple                         | ACBU |         | 9<br>9     | oval<br>rounded      | yellow        | red gold             | f           | A           | none commonly available | Benefits: tolerates wind, salt, drought, air pollution, and soil compaction; does not develop leaf scorch during drought<br>Notes: |                    |
| <i>Acer campestre</i><br>Hedge Maple                              | ACCA |         | 9<br>9     | rounded              | green         | gold                 | s           | S - A       | See below               | Benefits: easy to transplant<br>Notes: will tolerate drought; shallow root system;                                                 |                    |
| <i>Acer campestre</i> 'Queen Elizabeth'<br>Queen Elizabeth Maple  | ACCA |         | 9<br>9     | upright              | inconspicuous | gold                 | s           | S - A       | N/A                     | Benefits: tolerant of dry soils, compaction and air pollution<br>Notes:                                                            |                    |
| <i>Acer circinatum</i> *<br>Vine Maple                            | ACCI |         | 9<br>6     | rounded<br>vase      | inconspicuous | red gold             | m           | S - A       | none commonly available | Benefits:<br>Notes: prefers fairly fertile moist soils, but will tolerate a wide variety of soils;                                 |                    |
| <i>Acer glabrum</i><br>Douglas Maple                              | ACGL |         | 9<br>6     | oval<br>rounded      | green yellow  | gold                 | m           | S           | none commonly available | Benefits:<br>Notes:                                                                                                                |                    |
| <i>Acer griseum</i><br>Paperbark Maple                            | ACGR |         | 7.5<br>7.5 | oval<br>rounded      | inconspicuous | red                  | s - m       | S - A       | none commonly available | Benefits:<br>Notes: outstanding fall colour; offers dappled shade; does not tolerate drought;                                      |                    |
| <i>Acer japonicum</i> 'Aconitifolium'<br>Fernleaf Fullmoon Maple  | ACJA |         | 7.5<br>7.5 | vase<br>rounded      | red           | red                  | s - m       | S - A       | N/A                     | Benefits: good fall colour<br>Notes: branches resist breakage;                                                                     |                    |
| <i>Cercidiphyllum japonicum</i> 'Pendula'<br>Weeping Katsura Tree | CEJA |         | 8<br>7     | rounded              | inconspicuous | gold red             | f           | A           | N/A                     | Benefits:<br>Notes: shallow root system; relatively pest free;                                                                     |                    |

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 \* Denotes native species  
 N/A - Not Applicable

**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                                                 | Code | Conifer | Height (m)<br>Spread (m) | Tree Form           | Flower Colour             | Fall Colour      | Growth Rate | Longevity | Suggested Varieties   | Benefits and Notes                                                                                                                                                                    |
|--------------------------------------------------------------------------------|------|---------|--------------------------|---------------------|---------------------------|------------------|-------------|-----------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cercis canadensis</i><br>Eastern Redbud                                     | CECA |         | 9<br>7.5                 | rounded<br>umbrella | pink rose                 | gold             | f           | S - A     | See below             | Benefits: drought tolerant<br>Notes: in urban landscapes, tends to be shorter lived due to a combination of urban stresses, diseases, and pests; less adapted to drought than species |
| <i>Cercis canadensis</i> `Alba'<br>White Redbud                                | CECA |         | 9<br>7.5                 | rounded<br>umbrella | white                     | gold             | m           | S - A     | N/A                   | Benefits: drought tolerant<br>Notes: in urban landscapes, tends to be shorter lived due to a combination of urban stresses, diseases, and pests; less adapted to drought than species |
| <i>Cercis canadensis</i> `Forest Pansy'<br>Forest Pansy Redbud                 | CECA |         | 6.5<br>7.5               | rounded<br>umbrella | purple red                | bronze<br>purple | m           | S - A     | N/A                   | Benefits:<br>Notes: in urban landscapes, tends to be shorter lived due to a combination of urban stresses, diseases, and pests; less adapted to drought than species;                 |
| <i>Cercis canadensis</i> ssp. <i>texensis</i><br>`Oklahoma'<br>Oklahoma Redbud | CECA |         | 7.5<br>7.5               | vase<br>rounded     | pink                      | gold             | f           | S - A     | N/A                   | Benefits:<br>Notes: habit is more dense and compact than the species;                                                                                                                 |
| <i>Chamaecyparis pisifera</i> `Filifera'<br>Cypress                            | CHPI |         | 9<br>6                   | pyramidal           | inconspicuous             | no<br>change     | s - m       | L         | N/A                   | Benefits:<br>Notes: does not do well in alkaline soil;                                                                                                                                |
| <i>Cornus florida</i><br>Flowering Dogwood                                     | COFL |         | 9<br>7.5                 | umbrella            | white pink rose<br>yellow | red              | m           | A         | Cherokee Chief, Rubra | Benefits: has four season appeal (flowers, fruits, fall, color, bark) and branching character<br>Notes: not tolerant of stresses such as heat, drought, pollution, road salt;         |
| <i>Cornus kousa</i> `Chinensis'<br>Chinese Dogwood                             | COKO |         | 9<br>7.5                 | umbrella<br>vase    | cream white               | red gold         | m           | A         | N/A                   | Benefits: relatively drought tolerant; four season appeal<br>Notes: low biogenic emissions                                                                                            |
| <i>Cornus kousa</i> `National' or `Satomi'<br>Kousa Dogwood                    | COKO |         | 9<br>7.5                 | umbrella<br>vase    | pink                      | red gold         | m           | A         | N/A                   | Benefits:<br>Notes:                                                                                                                                                                   |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                      | Code | Conifer | Height (m) | Spread (m) | Tree Form             | Flower Colour | Fall Colour | Growth Rate | Longevity | Suggested Varieties               | Benefits and Notes                                                                                                                                              |
|-----------------------------------------------------|------|---------|------------|------------|-----------------------|---------------|-------------|-------------|-----------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cornus mas</i><br>Cornelian Cherry               | COMA |         | 7.5<br>6   |            | rounded umbrella      | yellow        | red gold    | m           | A         | Spring Glow                       | Benefits: relatively easy to transplant; pest resistant<br>Notes:                                                                                               |
| <i>Crataegus columbiana</i> *<br>Hawthorn           | CRCO |         | 9<br>9     |            | rounded               | white         | red orange  | s           | -         | none commonly available           | Benefits: drought tolerant; pollution tolerant<br>Notes: armored;                                                                                               |
| <i>Crataegus phaenopyrum</i><br>Washington Hawthorn | CRPH |         | 9<br>9     |            | rounded umbrella      | white         | red orange  | m           | -         | none commonly available           | Benefits:<br>Notes: armored; multi-stemmed;                                                                                                                     |
| <i>Crataegus x lavallei</i><br>Lavalle Hawthorn     | CRLA |         | 9<br>7.5   |            | oval                  | white         | red orange  | m           | A         | none commonly available           | Benefits:<br>Notes: armored;                                                                                                                                    |
| <i>Fraxinus ornus</i><br>Flowering Ash              | FROR |         | 9<br>9     |            | rounded               | green white   | gold purple | f           | A         | none commonly available           | Benefits: easily transplanted and established; tolerant of poorly-drained soils<br>Notes: male plants preferred for landscape settings (less fruit than female) |
| <i>Halesia carolina</i><br>Carolina Silverbell      | HACA |         | 9<br>6     |            | oval                  | white         | gold        | m           | A         | none commonly available           | Benefits: relatively disease and pest free<br>Notes: prefers a moist, well-drained, acid soil;                                                                  |
| <i>Koeleruteria paniculata</i><br>Goldenrain Tree   | KOPA |         | 9<br>9     |            | rounded umbrella      | yellow        | bronze gold | s - m       | A         | none commonly available           | Benefits: drought and smog tolerant<br>Notes:                                                                                                                   |
| <i>Magnolia 'Galaxy'</i><br>Galaxy Magnolia         | MAGA |         | 7.5<br>7.5 |            | oval rounded vase     | purple red    | bronze gold | m           | A         | N/A                               | Benefits: relatively disease and pest free<br>Notes:                                                                                                            |
| <i>Magnolia grandiflora</i><br>Magnolia             | MAGR |         | 7.5<br>6   |            | oval rounded umbrella | white         | no change   | m           | L         | Edith Bogue, Little Gem, Victoria | Benefits: moderately drought tolerant; tolerates a variety of soils<br>Notes: difficult to transplant; evergreen; moderate biogenic emissions                   |
| <i>Malus</i><br>Flowering Crabapple                 | ML   |         | 7.5<br>6   |            | -                     | -             | -           | -           | -         | -                                 | Benefits:<br>Notes:                                                                                                                                             |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable



**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                                        | Code | Conifer | Height (m) | Tree Form                   | Flower Colour | Fall Colour          | Growth Rate | Longevity | Suggested Varieties                        | Benefits and Notes                                                                                                                        |
|-----------------------------------------------------------------------|------|---------|------------|-----------------------------|---------------|----------------------|-------------|-----------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Parrotia persica</i><br>Ironwood                                   | PAPE |         | 9<br>9     | oval                        | red           | orange<br>red gold   | s - m       | A         | Ruby Vase                                  | Benefits: drought tolerant; tolerates urban conditions<br>Notes:                                                                          |
| <i>Prunus x yedoensis</i> 'Akebono'<br>Akebono Cherry                 | PRYE |         | 7.5<br>7.5 | rounded<br>umbrella<br>vase | pink          | bronze<br>gold       | m - f       | S - A     | N/A                                        | Benefits: four season appeal;<br>Notes: drought sensitive; crown will become one-sided if it does not receive light all around the plant; |
| <i>Prunus blireiana</i><br>Flowering Plum                             | PRBL |         | 7.5<br>6   | rounded<br>umbrella<br>vase | pink rose     | bronze               | m           | S - A     | none commonly available                    | Benefits:<br>Notes: trunk develops warts and burrs;                                                                                       |
| <i>Prunus virginiana</i> 'Shubert'<br>Shubert Choke Cherry            | PRVI |         | 7<br>6.5   | oval<br>rounded<br>umbrella | white         | bronze               | m           | S         | N/A                                        | Benefits:<br>Notes: red foliage summer foliage;                                                                                           |
| <i>Pyrus calleryana</i><br>Pear                                       | PYCA |         | 9<br>6     | oval<br>rounded             | white         | red gold<br>purple   | m           | A         | Cleveland Select, Capital,<br>Autumn Blaze | Benefits: adaptable to many different soils;<br>tolerates drying and pollution<br>Notes:                                                  |
| <i>Robinia pseudoacacia</i> 'Purple Robe'<br>Purple Robe Black Locust | ROPS |         | 9<br>9     | oval                        | lavender      | gold                 | f           | A         | standard size varieties                    | Benefits: salt tolerant<br>Notes: armored;                                                                                                |
| <i>Sorbus americana</i><br>American Mountain Ash                      | SOAM |         | 7.5<br>6   | rounded                     | white         | red gold             | s           | S         | See below                                  | Benefits:<br>Notes: fruit attracts birds;                                                                                                 |
| <i>Sorbus aucuparia</i> 'Michred'<br>Cardinal Royal Mt. Ash           | SOAU |         | 9<br>6     | oval                        | white         | gold<br>orange       | m - f       | A         | N/A                                        | Benefits:<br>Notes:                                                                                                                       |
| <i>Stewartia pseudocamellia</i><br>Japanese Stewartia                 | SWPS |         | 9<br>9     | pyramidal                   | orange white  | bronze<br>red purple | s - m       | A         | none commonly available                    | Benefits: four season interest; relatively pest and disease free<br>Notes: does not establish easily;                                     |
| <i>Stewartia sinensis</i><br>Chinese Stewartia                        | SWSI |         | 7.5<br>7.5 | -                           | white         | red                  | s           | -         | none commonly available                    | Benefits:<br>Notes:                                                                                                                       |
| <i>Styrax japonicus</i><br>Japanese Snowbell                          | STJA |         | 9<br>9     | rounded<br>umbrella         | white         | red gold             | s - m       | S - A     | Pink Chimes                                | Benefits:<br>Notes: flowers attract bees; tolerates some shade;                                                                           |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 3: Overhead Lines**

Small trees.

| Botanical Name                                   | Code | Conifer | Height (m) | Spread (m) | Tree Form       | Flower Colour | Fall Colour    | Growth Rate | Longevity | Suggested Varieties | Benefits and Notes                                                                                    |
|--------------------------------------------------|------|---------|------------|------------|-----------------|---------------|----------------|-------------|-----------|---------------------|-------------------------------------------------------------------------------------------------------|
| <i>Syringa reticulata</i><br>Japanese Tree Lilac | SYRE |         | 9<br>7.5   |            | oval<br>rounded | white         | bronze<br>gold | m           | A         | Ivory Silk          | Benefits:<br>Notes: somewhat drought tolerant;                                                        |
| <i>Tilia cordata</i> `De Groot`<br>Linden        | TICO |         | 9<br>6     |            | -               | yellow        | gold           | s - m       | -         | N/A                 | Benefits: drought resistant; tolerates urban conditions<br>Notes: suckers less than other t. cordata; |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable

**Constraint Class 4; Overhead Lines and a Narrow Boulevard**

Small trees with a narrow form.

| Tree Species                                             | Code | Conifer | Height (m) | Tree Form                   | Flower Colour   | Fall Colour        | Growth Rate | Longevity | Suggested Varieties     | Benefits and Notes                                                                                                                                                                            |
|----------------------------------------------------------|------|---------|------------|-----------------------------|-----------------|--------------------|-------------|-----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Low Zone: height 6m or less, maximum spread of 5m</b> |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Acer tataricum</i> 'Pattern Perfect'                  | ACTA |         | 6<br>4.5   | oval                        | inconspicuous   | red<br>orange      | m - f       | A         | N/A                     | Benefits: drought tolerant<br>Notes: does best in well drained soils                                                                                                                          |
| Pattern Perfect Tatarian Maple                           |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Amelanchier alnifolia</i> *                           | AMAL |         | 5<br>5     | oval<br>rounded             | white           | red gold           | m           | S - A     | none commonly available | Benefits: does well in dry sites<br>Notes: low biogenic emissions;                                                                                                                            |
| Saskatoon                                                |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Cotinus coggygria</i>                                 | CCOG |         | 4.5<br>4   | rounded                     | lavender purple | red gold<br>orange | m           | S - A     | Daydream, Royal Purple  | Benefits: tolerant of poor soils; easily transplanted and established<br>Notes:                                                                                                               |
| Smoke Tree                                               |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Fraxinus excelsior</i> Globosum                       | FREX |         | 6<br>4.5   | rounded                     | green purple    | gold               | a           | A - L     | N/A                     | Benefits:<br>Notes:                                                                                                                                                                           |
| Globe-headed European Ash                                |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Arbutus</i> 'Marina'                                  | ARMA |         | 7.5<br>4.5 | rounded<br>umbrella<br>vase | pink rose       | no<br>change       | s - m       | A         | N/A                     | Benefits: drought tolerant once established<br>Notes:                                                                                                                                         |
| Marina Madrone                                           |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Juniperus communis</i>                                | JNCO |         | 4.5<br>2   | arching                     | inconspicuous   | no<br>change       | s           | 0         | Stricta                 | Benefits: easily transplanted; grows in poor site conditions; once established, requires little maintenance<br>Notes: shrubby                                                                 |
| Common Juniper                                           |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Magnolia stellata</i>                                 | MAST |         | 3.5<br>3.5 | rounded<br>umbrella<br>vase | white           | bronze<br>gold     | s           | A         | Acclaim, Royal Star,    | Benefits:<br>Notes: usually multi-stemmed; performs best in partial sun in moist, acidic, deep soils but is quite adaptable to a wide range of soils, soil pHs, pollution, and even wet soils |
| Star Magnolia                                            |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Prunus serrulata</i> 'Amanogawa'                      | PRSE |         | 6<br>2     | columnar                    | pink            | bronze<br>red      | m           | 0         | N/A                     | Benefits:<br>Notes: prefers well drained soil                                                                                                                                                 |
| Amanogawa Cherry                                         |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Rhododendron</i> spp.                                 | RD   |         | 2<br>2     | 0                           | 0               | 0                  | 0           | 0         | 0                       | Benefits:<br>Notes:                                                                                                                                                                           |
| Rhododendron                                             |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |
| <i>Viburnum opulus</i>                                   | VIOP |         | 3<br>4.5   | rounded                     | white           | red purple         | m           | 0         | Roseum                  | Benefits: easily transplanted and established; adaptable to extremes of soil and pH<br>Notes:                                                                                                 |
| Snowball Tree                                            |      |         |            |                             |                 |                    |             |           |                         |                                                                                                                                                                                               |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 4; Overhead Lines and a Narrow Boulevard**

Small trees with a narrow form.

| Tree Species                                                      | Code | Conifer | Height (m) | Spread (m) | Tree Form | Flower Colour | Fall Colour | Growth Rate | Longevity | Suggested Varieties | Benefits and Notes                                                                                                                             |
|-------------------------------------------------------------------|------|---------|------------|------------|-----------|---------------|-------------|-------------|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Medium Zone: height less than 12m, maximum spread of 5m           |      |         |            |            |           |               |             |             |           |                     |                                                                                                                                                |
| <i>Fagus sylvatica</i> 'Purple Fountain'<br>Purple Fountain Beech | FASY |         | 7.5<br>4   |            | weeping   | inconspicuous | bronze      | s - m       | A         | N/A                 | Benefits: tolerates urban conditions; drought tolerant<br>Notes: prefers moist, well-drained, acidic soil; does not like excessively wet soils |
| <i>Prunus cerasifera</i> 'Atropurpurea'<br>Pissard Plum           | PRCE |         | 9<br>4.5   |            | oval vase | white         | bronze      | m - f       | S - A     | N/A                 | Benefits:<br>Notes: fruit litter; maintains purple foliage all season                                                                          |
| <i>Prunus x hillieri</i> 'Spire'<br>Spire Cherry                  | PRHI |         | 9<br>3     |            | columnar  | pink          | red         | m           | 0         | N/A                 | Benefits:<br>Notes: copper coloured summer foliage                                                                                             |

Growth Rate: s=slow, m=medium, f=fast  
 Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years  
 \* Denotes native species  
 N/A - Not Applicable

### Constraint Class 5: Planting in Pavement

Avoid trees with large surface roots, dense canopies and trees that can litter the pavement.

| Tree Species                                                 | Code | Conifer | Height (m) | Tree Form             | Flower Colour | Fall Colour  | Growth Rate | Longevity | Suggested Varieties         | Benefits and Notes                                                                                                                                                                                               |
|--------------------------------------------------------------|------|---------|------------|-----------------------|---------------|--------------|-------------|-----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Acer campestre</i><br>Hedge Maple                         | ACCA |         | 9<br>9     | rounded               | green         | gold         | s           | S - A     | Queen Elizabeth             | Benefits: hardy; easy to transplant<br>Notes: will tolerate drought; shallow root system;                                                                                                                        |
| <i>Acer cappadocicum</i><br>Coliseum Maple                   | ACCP |         | 10<br>9    | rounded spreading     | inconspicuous | yellow gold  | f           | A         |                             | Benefits:<br>Notes: bright red spring growth                                                                                                                                                                     |
| <i>Acer ginnala</i><br>Amur Maple                            | ACGI |         | 6<br>6     | oval                  | yellow        | red gold     | s - m       | S - A     | Flame                       | Benefits: very hardy; easily transplanted<br>Notes:                                                                                                                                                              |
| <i>Acer platanoides</i> `Crimson King`<br>Crimson King Maple | ACPL |         | 18<br>15   | rounded               | inconspicuous | brown purple | m           | A         | N/A                         | Benefits: dense shade; high large canopy; adapted to poor soil; heat and drought-tolerant<br>Notes: surface-rooted; maroon leaf colour; may seed itself                                                          |
| <i>Acer pseudoplatanus</i><br>Sycamore Maple                 | ACPS |         | 18<br>15   | oval rounded          | inconspicuous | no change    | m           | A         | Spaethii                    | Benefits: easily transplanted and established; very adaptable; tolerates salt and seaside locations; tolerates high pH, calcareous soils<br>Notes: full sun best, can take light shade; prefers cool environment |
| <i>Carpinus betulus</i><br>Hornbeam                          | CABE |         | 12<br>12   | pyramidal             | inconspicuous | red gold     | s - m       | A         | Fastigiata, Franz Fointaine | Benefits: very soil adaptable as long as the soil is well-drained; can tolerate urban conditions and pollution<br>Notes:                                                                                         |
| <i>Cercidiphyllum japonicum</i><br>Katsuratree               | CEJA |         | 40<br>40   | oval rounded umbrella | inconspicuous | red gold     | s           | A         | Pendula                     | Benefits: pH adaptable<br>Notes: not easy to transplant; requires water during establishment and dry periods                                                                                                     |
| <i>Fraxinus oxycarpa</i><br>Ash                              | FROX |         | 12<br>7.5  | oval rounded          | inconspicuous | red purple   | m           | A         | See below                   | Benefits: tolerates urban conditions<br>Notes: somewhat drought tolerant                                                                                                                                         |
| <i>Fraxinus oxycarpa</i> `Raywood`<br>Raywood Ash            | FROX |         | 10<br>7.5  | oval rounded          | inconspicuous | red purple   | m           | A         | N/A                         | Benefits: tolerates urban conditions<br>Notes: moderately drought tolerant once established                                                                                                                      |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

**Constraint Class 5: Planting in Pavement**

Avoid trees with large surface roots, dense canopies and trees that can litter the pavement.

| Tree Species                                                  | Code | Conifer | Height (m) | Tree Form             | Flower Colour       | Fall Colour       | Growth Rate | Longevity | Suggested Varieties              | Benefits and Notes                                                                                                                                                       |
|---------------------------------------------------------------|------|---------|------------|-----------------------|---------------------|-------------------|-------------|-----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Fraxinus pennsylvanica</i><br>Green Ash                    | FRPE |         | 18<br>12   | oval                  | inconspicuous       | gold              | m           | L         | Marshall, Summit                 | Benefits: easily transplanted and established<br>Notes: low biogenic emissions;                                                                                          |
| <i>Ginkgo biloba</i><br>Maidenhair Tree                       | GIBI |         | 25<br>15   | pyramidal             | inconspicuous       | bright yellow     | m           | L         | Magyar, Fairmount, Sentry        | Benefits: adaptable to pH and almost any other conditions; tolerant of pollution, salt air, and heat; pest free<br>Notes: do not plant females-- fruit smells unpleasant |
| <i>Gleditsia tricanthos inermis</i><br>Thornless Honey Locust | GLTR |         | 18<br>15   | oval umbrella         | inconspicuous       | gold              | f           | A - L     | Shademaster, Skyline, Sunburst   | Benefits: tolerates pollution and heat<br>Notes: dappled shade                                                                                                           |
| <i>Juniperus chinensis</i><br>Chinese Juniper                 | JNCH | ✓       | 15<br>6    | pyramidal             | inconspicuous       | no change         | s - m       | S - A     | Blue Point, Old Gold, Pfizeriana | Benefits: drought tolerant<br>Notes:                                                                                                                                     |
| <i>Koelerutera paniculata</i><br>Goldenrain Tree              | KOPA |         | 10<br>10   | rounded umbrella vas  | yellow              | bronze gold       | s - m       | A         | none commonly available          | Benefits: drought tolerant; pollution tolerant<br>Notes: high biogenic emissions;                                                                                        |
| <i>Liriodendron tulipifera</i><br>Tulip Tree                  | LRTU |         | 24<br>13   | oval                  | yellow orange       | bronze gold       | f           | L         | Fastigiatum                      | Benefits: tolerates urban conditions<br>Notes: moderate biogenic emissions; intolerant of hot, dry sites                                                                 |
| <i>Nyssa sylvatica</i><br>Tupelo                              | NYSY |         | 25<br>20   | pyramidal oval        | inconspicuous       | red orange        | s - m       | L         | none commonly available          | Benefits: fire resistant<br>Notes: prefers moist, well-drained, acidic deep soils                                                                                        |
| <i>Parrotia persica</i><br>Ironwood                           | PAPE |         | 9<br>9     | oval                  | red                 | orange red gold   | s - m       | A         | Ruby Vase                        | Benefits: drought tolerant; tolerates urban conditions<br>Notes:                                                                                                         |
| <i>Prunus sp.</i><br>Cherry / Plum                            | PR   |         |            | 0                     | 0                   | 0                 | 0           | 0         |                                  | Benefits:<br>Notes:                                                                                                                                                      |
| <i>Quercus acutissima</i><br>Sawtooth Oak                     | QUAC |         | 13<br>12   | rounded               | golden male catkins | golden yellow     | m-f         | L         |                                  | Benefits: tolerant of drought and compacted soils, attracts wildlife<br>Notes: adaptable, clean foliage, easy to transplant                                              |
| <i>Quercus coccinea</i><br>Scarlet Oak                        | QUCO |         | 23<br>14   | oval rounded umbrella | inconspicuous       | bronze red orange | m - f       | L         | none commonly available          | Benefits:<br>Notes: high biogenic emissions; difficult to transplant;                                                                                                    |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable

### Constraint Class 5: Planting in Pavement

Avoid trees with large surface roots, dense canopies and trees that can litter the pavement.

| Tree Species                                          | Code | Conifer | Height (m) | Tree Form                     | Flower Colour | Fall Colour          | Growth Rate | Longevity | Suggested Varieties       | Benefits and Notes                                                                                                                                                  |
|-------------------------------------------------------|------|---------|------------|-------------------------------|---------------|----------------------|-------------|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Quercus phellos</i><br>Willow Oak                  | QUPH |         | 20<br>12   | rounded                       | inconspicuous | yellow<br>brown      | m-f         | L         |                           | Benefits: adaptable<br>Notes: high biogenic emissions; tolerates heat, drought, pollution, compacted soils, and standing water                                      |
| <i>Quercus robur</i><br>English Oak                   | QURO |         | 15<br>15   | oval<br>rounded<br>umbrella   | inconspicuous | bronze<br>gold       | f           | L         | Fastigiata                | Benefits:<br>Notes: high biogenic emissions; prefers moist, fertile, well drained soils                                                                             |
| <i>Robinia pseudoacacia</i><br>Black Locust           | ROPS |         | 15<br>10   | oval                          | white         | gold                 | f           | A         | Frisia, Purple Robe       | Benefits: easily transplanted; tolerates salt, heat, pollution<br>Notes: high biogenic emissions;                                                                   |
| <i>Stewartia pseudocamellia</i><br>Japanese Stewartia | SWPS |         | 9<br>9     | pyramidal                     | orange white  | bronze<br>red purple | s - m       | A         | none commonly available   | Benefits: four season interest; relatively pest and disease free<br>Notes: does not establish easily;                                                               |
| <i>Tilia cordata</i><br>Littleleaf Linden             | TICO |         | 15<br>10   | pyramidal<br>oval<br>umbrella | white yellow  | gold                 | s - m       | A         | none commonly available   | Benefits: tolerant of difficult growing sites and soils; tolerant of urban conditions; pollution tolerant<br>Notes: attracts bees when in bloom                     |
| <i>Tilia tomentosa</i><br>Silver Linden               | TITO |         | 18<br>12   | oval                          | yellow        | yellow               | f           | A         |                           | Benefits: attractive to insects and birds<br>Notes: tolerates range of soils, wind, salt, and pollution                                                             |
| <i>Zelkova serrata</i><br>Japanese Zelkova            | ZESE |         | 25<br>18   | rounded<br>umbrella           | inconspicuous | bronze<br>red gold   | m - f       | A         | Green Vase, Village Green | Benefits: easy to transplant and establish<br>Notes: low biogenic emissions; shows fairly good resistance to Dutch Elm Disease and bacterial canker, but not immune |

Growth Rate: s=slow, m=medium, f=fast

Longevity: S=short, 40 to 60 years, A=average 50-150 years, L=long, 100-175 years

\* Denotes native species

N/A - Not Applicable