

## SECTION

### NOTES:

1. Attachment of Fence to Trees to be Preserved is Not Allowed.
2. Ensure Fence is Located Beyond the Drip Line of Trees to be Preserved.
3. Fencing to be Installed Prior to Start of Construction and Remain in Place Until the Completion of All Work.



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

## TREE HOARDING - STREETS

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

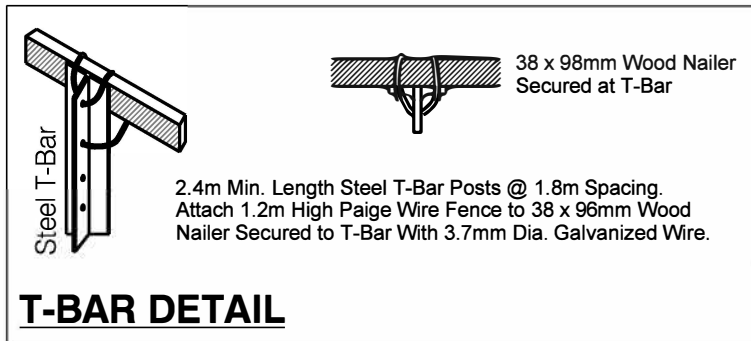
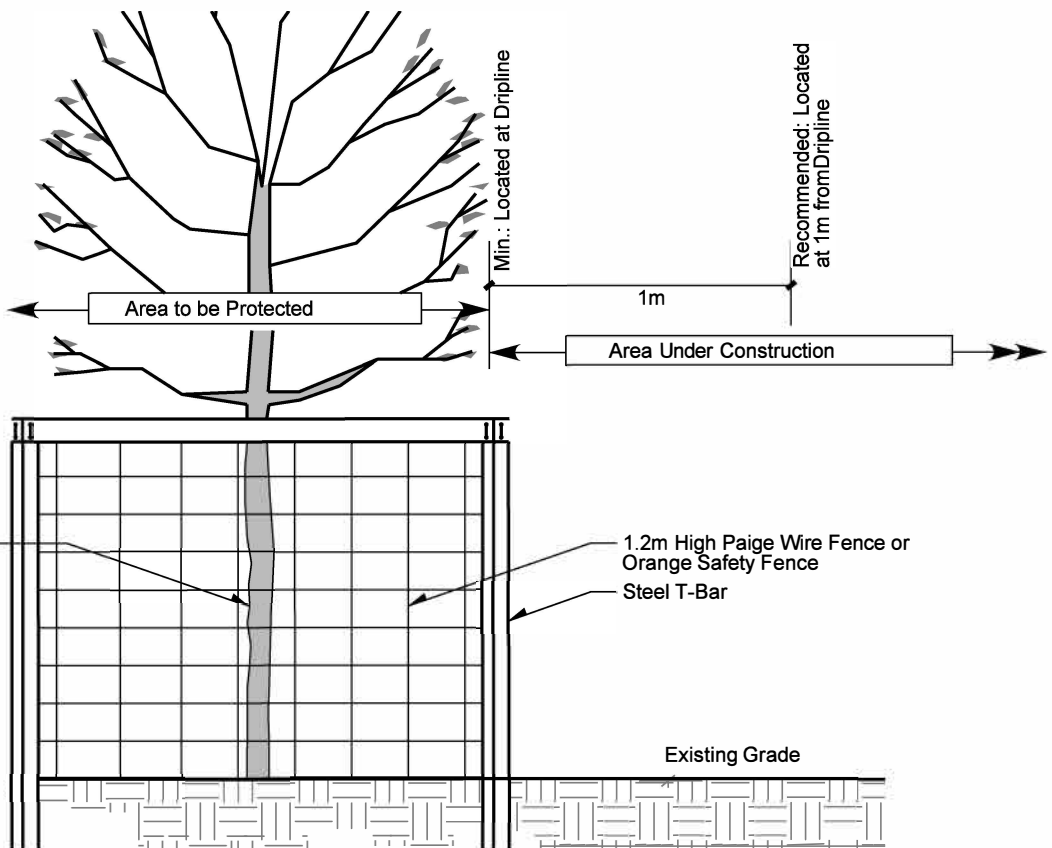
DATE  
January 2007

REV No

FORMERLY: OSD 1100.01

HAMILTON STD No

**PK-1100.01**




Tree Protection Sign Size: 380x610 (15x24")

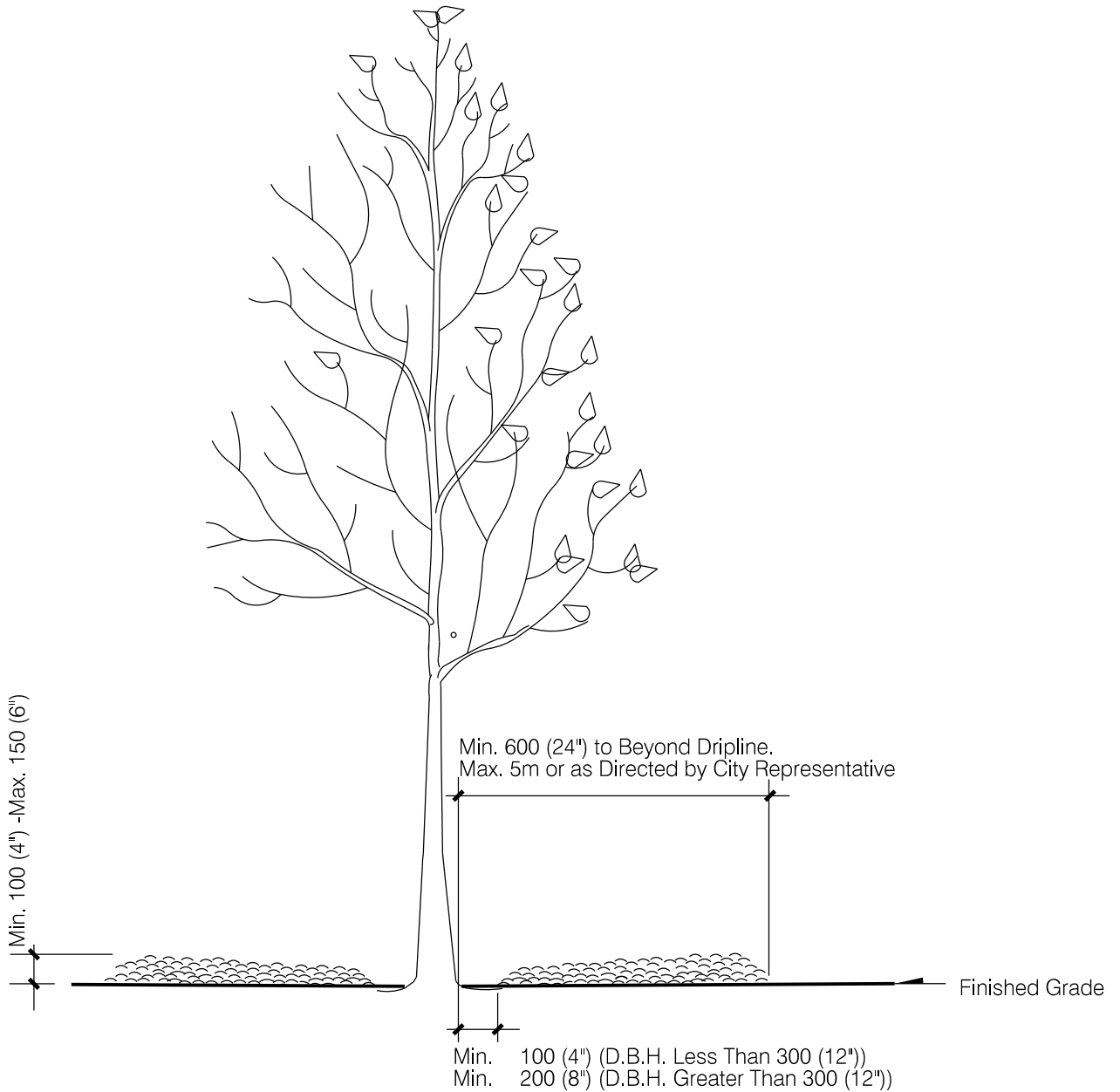


**NOTES:**

1. Attachment of Fence to Trees to be Preserved is Not Allowed.
2. Ensure Fence is Located Min. 1m Beyond the Drip Line of Trees to be Preserved Where Possible.
3. Fencing to be Installed Prior to Start of Construction and Remain in Place Until the Completion of All Work.

**STANDARD CITY OF HAMILTON SIGNAGE**

	City of Hamilton Public Works Department		
	<b>TREE HOARDING - PARKS</b>		
DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED (N.T.S.)	DATE January 2015	REV No 2	HAMILTON STD No FORMERLY: OSD 1100.02
			<b>PK-1100.02</b>



Apply Wood Chip Mulch to Min. Depth of 50mm (2") to Max. Depth of 100mm (4") Deep Once Settled, 100mm (4") Away From The Root Flare (Trees Less Than 300mm (12") D.B.H. (Diameter at Breast Height) or 200mm (8") Away From The Root Flare (Trees Greater Than 300mm (12") D.B.H.) Extending Min. 600mm (24") Radius to Drip Line (Max. 5m) or as Directed by City Representative.

For New Tree Plantings Refer to C.O.H. Standard Detail PK-1105.04

All Dimensions Are in Millimetres Unless Noted



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

**MULCHING FOR EXISTING TREES**

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
March 2017

REV No  
2

FORMERLY: N/A

HAMILTON STD No

**PK-1101.01**

Trees Shall Not be Staked

Backfill in 150mm Lifts and Tamp to Eliminate Air Pockets.

Add Sandy Loam Soil if Additional Backfill is Required as per City Specification.

Fracture the Entire Perimeter of Tree Pit With a Hand Spade. Two Concentric Rings in Heavily Compacted Soils.

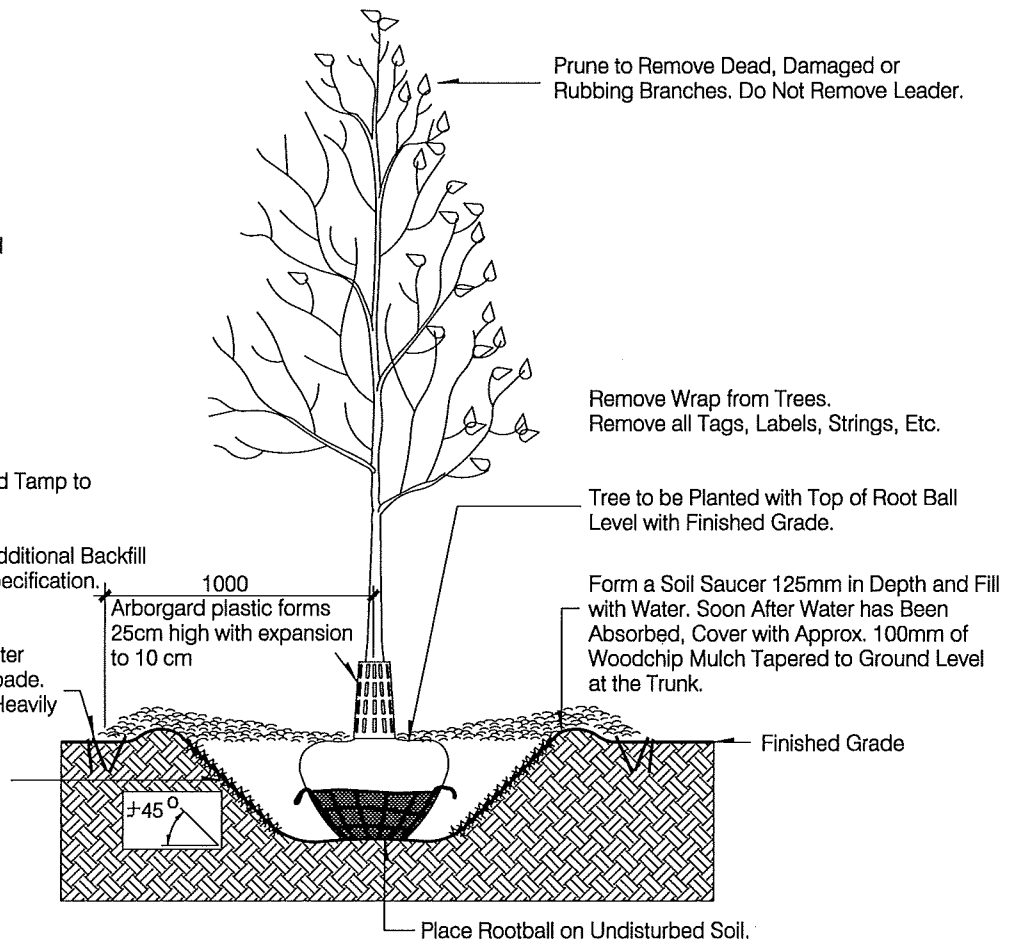
Loosen Surface Soil of Planting Hole.

Carefully Remove Any Loose Soil Around Trunk. Top of Rootball Should Not Be Disturbed or Covered with Soil.

Soak Backfilled Area to Ensure Full Contact Between Rootball and Backfill.

NOTE:

1. Trees Are Subject to Acceptance of City. Rejected Trees Shall be Removed From Work Site.
2. Trees Shall be Rejected for Any One of the Following: Double Leaders, Damaged Root Balls, Trunk Damage, Species Non-Conforming to Specifications, Girdled Trunks, Poorly Developed Crown, Root Ball Not Sized According to Canadian Nurseries Trade Association (C.N.T.A.), Excessively Dried Leaves.



Cut and Loosen Approx. 1/2 of Twine, Burlap and Wire on Rootball. All Twine and Burlap Must be Bio-Degradable.



City of Hamilton  
Public Works Department

DECIDUOUS TREE PLANTING

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

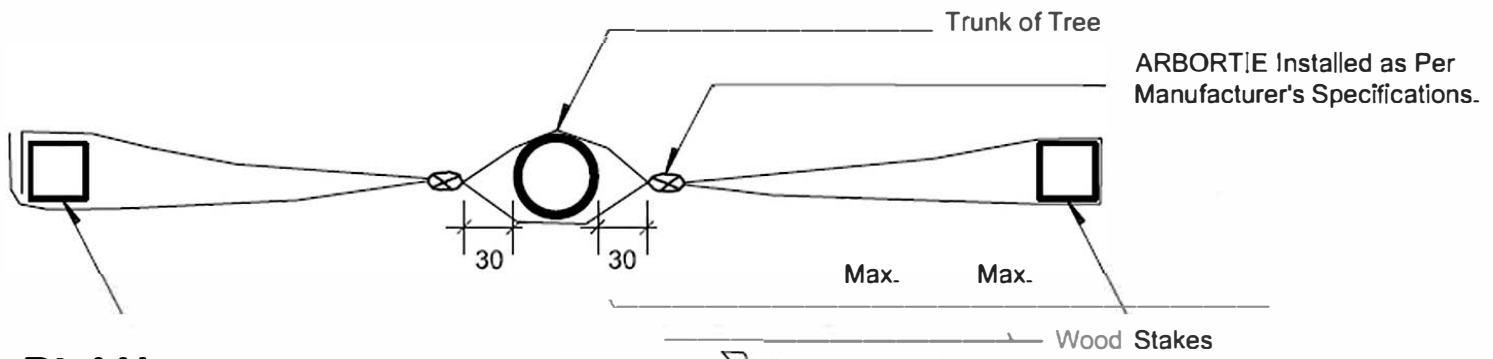
DATE  
November 2006

REV No  
1

FORMERLY: OSD 1105.03

HAMILTON STD No

PK-1105.03



**PLAN**

Tree Shall Be Staked Using 6'x2"x2" (1830x40x40,mm) Wooden Stakes (Min. 2' (600mm) in Ground) and ArborTie or VStrap Fastened Securely to Stakes and Tied to Tree as Shown Above and According to Manufacturer's Specifications.

Do Not Drive Stakes Through Root Ball

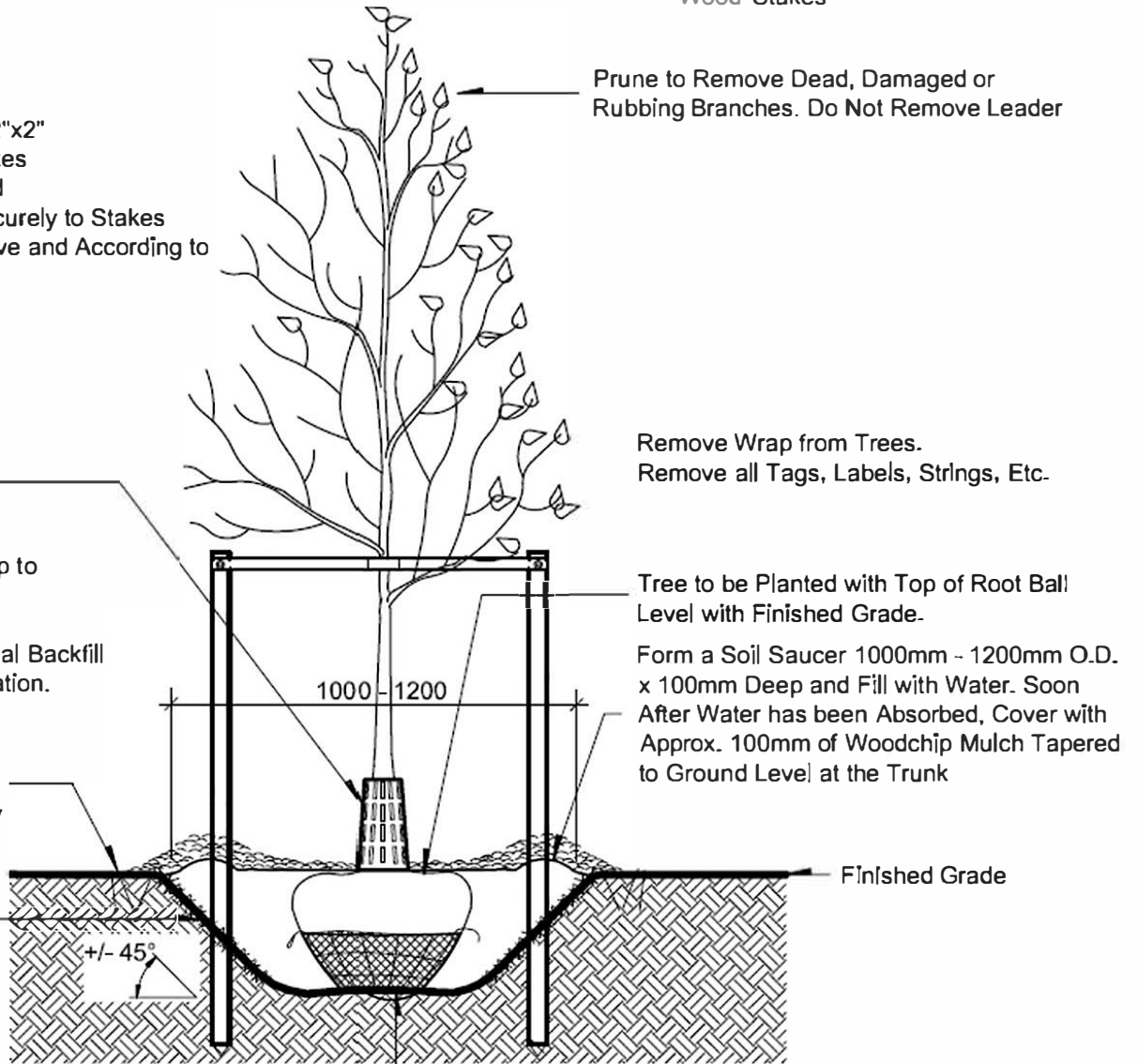
Arborgard plastic forms 25cm high with expansion to 10cm

Backfill In 150mm Lifts and Tamp to Eliminate Air Pockets.

Add Sandy Loam Soil if Additional Backfill is Required as per City Specification.

Fracture the Entire Perimeter of Tree Pit With a Hand Spade. Two Concentric Rings in Heavily Compacted Soils.

Loosen Surface Soil of Planting Hole.



Prune to Remove Dead, Damaged or Rubbing Branches. Do Not Remove Leader

Remove Wrap from Trees. Remove all Tags, Labels, Strings, Etc.

Tree to be Planted with Top of Root Ball Level with Finished Grade.

Form a Soil Saucer 1000mm - 1200mm O.D. x 100mm Deep and Fill with Water. Soon After Water has been Absorbed, Cover with Approx. 100mm of Woodchip Mulch Tapered to Ground Level at the Trunk

Finished Grade

Place Rootball on Undisturbed Soil. Cut and Remove Top 1/2 of Twine, Burlap and Wire Basket on Rootball. All Remaining Twine and Burlap Must be Bio-Degradable.

Carefully Remove Any Loose Soil Around Trunk. Top of Rootball Should Not Be Disturbed or Covered with Soil.

Soak Backfilled Area to Ensure Full Contact Between Rootball and Backfill.

**NOTE:**

1. Trees Are Subject to Acceptance by the City. Rejected Trees Shall be Removed From the Work Site.
2. Tree Shall be Rejected for Any One of the Following Criteria: Double Leaders, Damaged Root Balls, Trunk Damage, Species Non-Conforming to Specifications, Girdled Trunks, Poorly Developed Crown, Root Ball Sized According to Canadian Nurseries Trade Association (C.N.T.A.), Excessively Dried Leaves.



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

**DECIDUOUS TREE PLANTING  
WITH STAKING**

DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
March 2017

REV No 2

FORMERLY: N/A

HAMILTON STD No

**PK-1105.04**

Tree Shall be Staked Using 8'x2"x2" (2300x38x38mm) Wooden Stakes (Min. 2' (600mm) in Ground) and Arbortie or VStrap Fastened Securely to Stakes and Tied to Tree as Shown Above and According to Manufacturer's Specifications.

Do Not Drive Stakes Through Root Ball

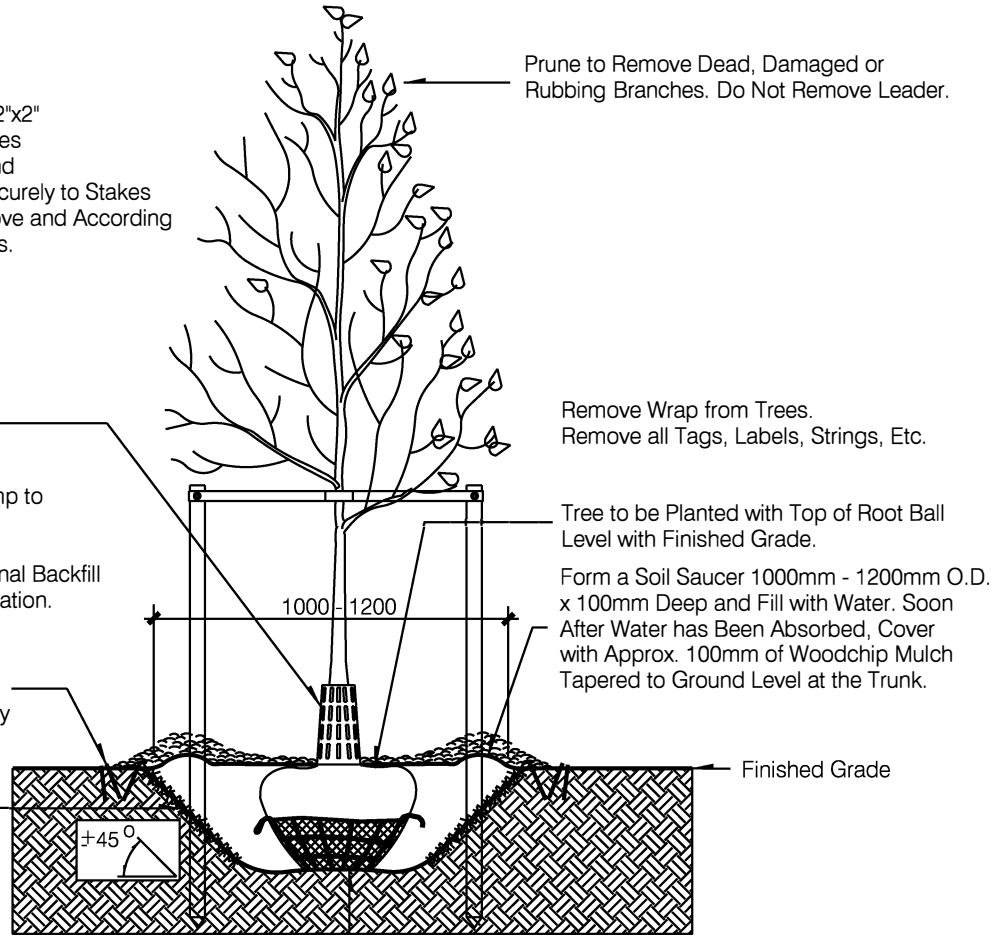
Arborgard plastic forms 25cm high with expansion to 10 cm

Backfill in 150mm Lifts and Tamp to Eliminate Air Pockets.

Add Sandy Loam Soil if Additional Backfill is Required as per City Specification.

Fracture the Entire Perimeter of Tree Pit With a Hand Spade. Two Concentric Rings in Heavily Compacted Soils.

Loosen Surface Soil of Planting Hole.



Prune to Remove Dead, Damaged or Rubbing Branches. Do Not Remove Leader.

Remove Wrap from Trees. Remove all Tags, Labels, Strings, Etc.

Tree to be Planted with Top of Root Ball Level with Finished Grade.

Form a Soil Saucer 1000mm - 1200mm O.D. x 100mm Deep and Fill with Water. Soon After Water has Been Absorbed, Cover with Approx. 100mm of Woodchip Mulch Tapered to Ground Level at the Trunk.

Finished Grade

Carefully Remove Any Loose Soil Around Trunk. Top of Rootball Should Not Be Disturbed or Covered with Soil.

Place Rootball on Undisturbed Soil. Cut and Remove Top 1/2 of Twine, Burlap and Wire Basket on Rootball. All Remaining Twine and Burlap Must be Bio-Degradable.

Soak Backfilled Area to Ensure Full Contact Between Rootball and Backfill.

NOTE:

1. Trees Are Subject to Acceptance by the City. Rejected Trees Shall be Removed From the Work Site.
2. Trees Shall be Rejected for Any One of the Following Criteria: Double Leaders, Damaged Root Balls, Trunk Damage, Species Non-Conforming to Specifications, Girdled Trunks, Poorly Developed Crown, Root Ball Not Sized According to Canadian Nurseries Trade Association (C.N.T.A.), Excessively Dried Leaves.



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

**DECIDUOUS TREE PLANTING  
WITH STAKING**

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
January 2010

REV No  
FORMERLY: N/A

HAMILTON STD No  
**PK-1105.05**

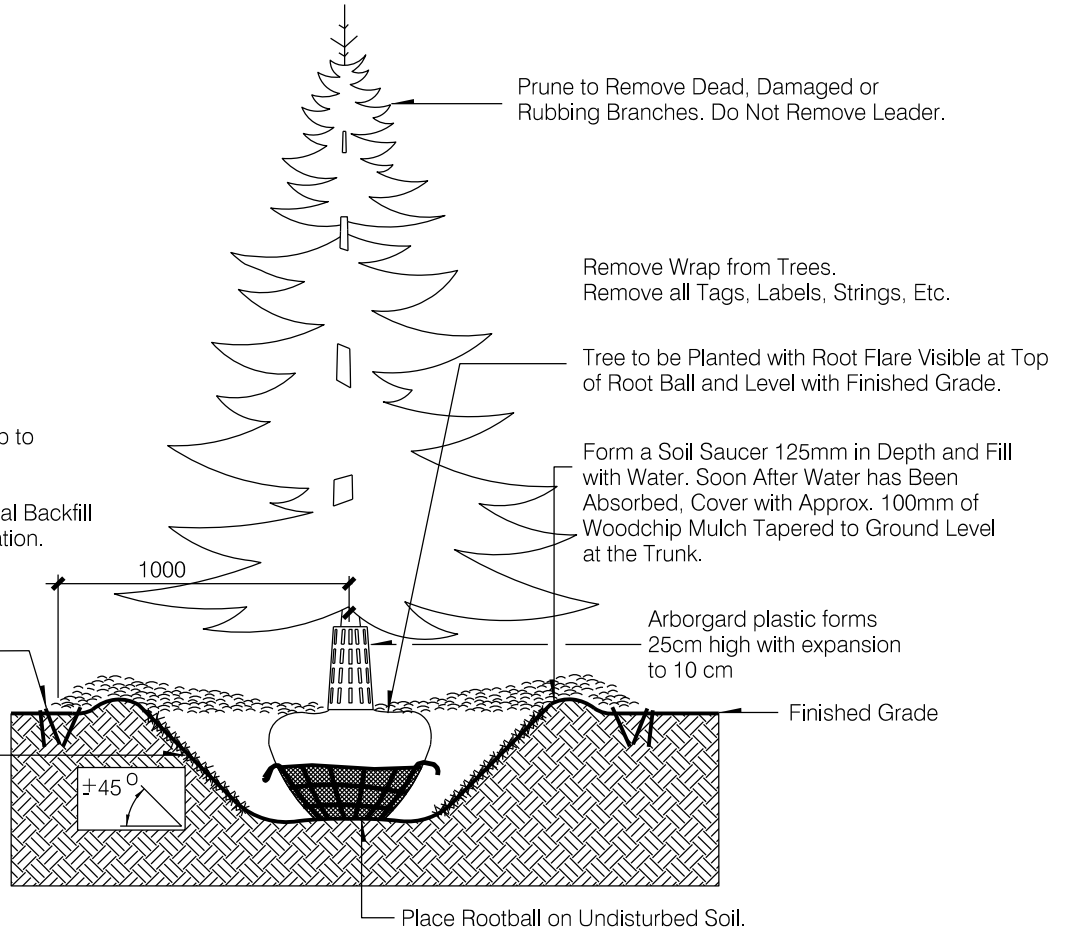
Trees Shall Not be Staked

Backfill in 150mm Lifts and Tamp to Eliminate Air Pockets.

Add Sandy Loam Soil if Additional Backfill is Required as per City Specification.

Fracture the Entire Perimeter of Tree Pit With a Hand Spade. Two Concentric Rings in Heavily Compacted Soils.

Loosen Surface Soil of Planting Hole.



Prune to Remove Dead, Damaged or Rubbing Branches. Do Not Remove Leader.

Remove Wrap from Trees. Remove all Tags, Labels, Strings, Etc.

Tree to be Planted with Root Flare Visible at Top of Root Ball and Level with Finished Grade.

Form a Soil Saucer 125mm in Depth and Fill with Water. Soon After Water has Been Absorbed, Cover with Approx. 100mm of Woodchip Mulch Tapered to Ground Level at the Trunk.

Arborgard plastic forms 25cm high with expansion to 10 cm

Finished Grade

Place Rootball on Undisturbed Soil.

Cut and Loosen Approx. 1/2 of Twine, Burlap and Wire on Rootball. All Twine and Burlap Must be Bio-Degradable.

Carefully Remove Any Loose Soil Around Trunk. Top of Rootball Should Not Be Disturbed or Covered with Soil.

Soak Backfilled Area to Ensure Full Contact Between Rootball and Backfill.

NOTE:

1. Trees Are Subject to Acceptance of City. Rejected Trees Shall be Removed From Work Site.
2. Trees Shall be Rejected for Any One of the Following: Double Leaders, Damaged Root Balls, Trunk Damage, Species Non-Conforming to Specifications, Girdled Trunks, Poorly Developed Crown, Root Ball Not Sized According to Canadian Nurseries Trade Association (C.N.T.A.), Excessively Dried Needles.



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

## CONIFEROUS TREE PLANTING

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

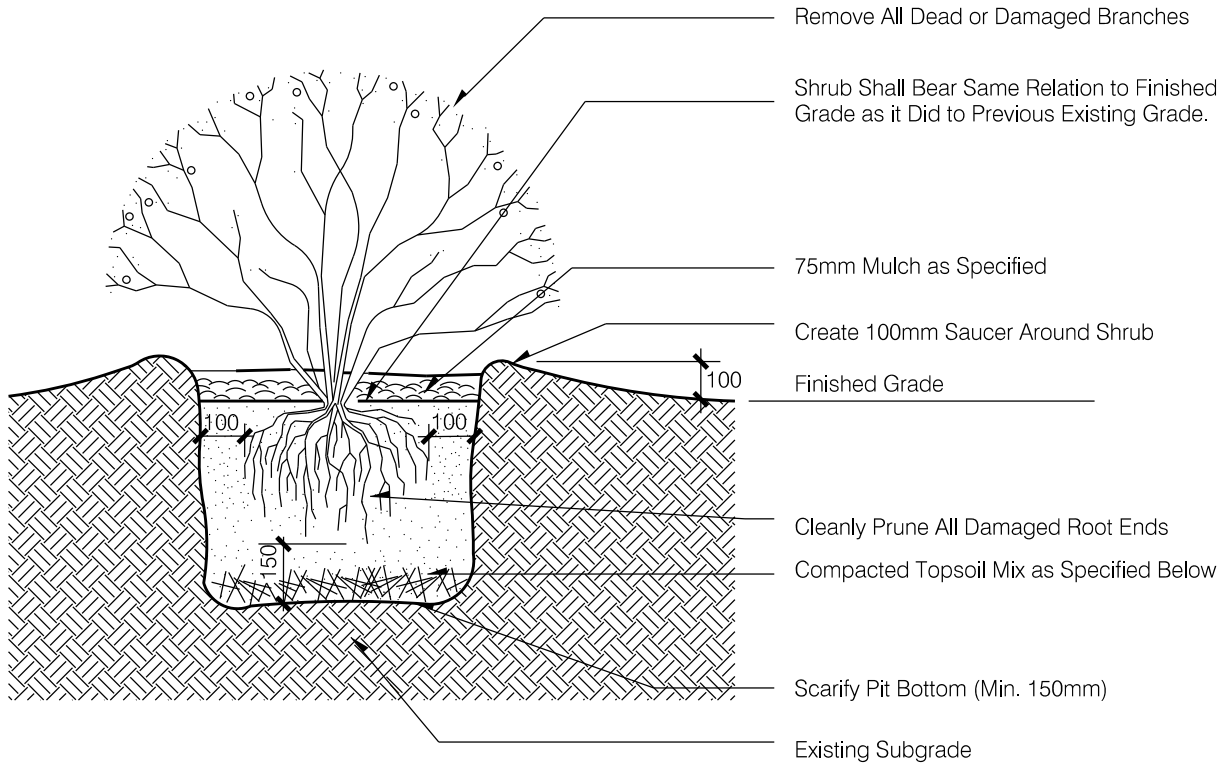
DATE  
March 2017

REV No  
2

FORMERLY: OSD 1110.02

HAMILTON STD No

**PK-1110.02**



NOTES:

1. See Specifications for Top Soil Mix.
2. Water Thoroughly After Installation
3. Excavate Entire Shrub Bed as Shown on Plans.
4. Planting Pit Shall be 2X the Width of the Root Ball.



**Hamilton**  
PUBLIC WORKS

City of Hamilton  
Public Works Department

**BARE ROOT SHRUB PLANTING**

DIMENSIONS SHOWN ARE IN MILLIMETRES  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
April 2007

REV No

FORMERLY: OSD 1140.01

HAMILTON STD No

**PK-1140.01**



**GENERAL NOTES**

1. For detailed requirements refer to the Design and Preservation Manual for Assets within Public Property by the City of Hamilton's Forestry and Horticulture Section.
2. The following design options should be applied to all trees within the Public Realm, and modified to suit site specific conditions.
3. Priority shall be given to Type 1 through 3 in sequential order.

**TYPE 1A: SODDED BOULEVARD**

- Road curb separation only
- All soil volume contained within sodded boulevard
- Soil cells used only to stabilize road or sidewalk, as needed
- Typically provided for suburban conditions or where sidewalk are being retrofitted

**TYPE 1B: OPEN PLANTING BED**

- 150mm curb height planter
- All soil volume provided within planting bed
- Decorative planter rail (optional)
- Flowering perennials (optional)
- Irrigation (optional)
- Typically provided for sidewalk retrofits

**TYPE 1C: OPEN PLANTING BED**

- Maximize surface area to provide soil volume in open planting bed. Outstanding balance of soil provided beneath paved surface using a continuous soil trench
- 150mm curb height planter
- Decorative planter rail (optional)
- Flowering perennials (optional)
- Irrigation (optional)

**TYPE 1D: OPEN PLANTING BED**

- Maximize surface area to provide soil volume in open planting bed. Outstanding balance of soil provided beneath paved surface using soil cells
- 150mm curb height planter
- Decorative planter rail (optional)
- Flowering perennials (optional)
- Irrigation (optional)

**TYPE 2A: RAISED PLANTER**

- 300-450mm height raised planter
- All required soil volume provided within raised planter
- Decorative planter rail (optional)
- Flowering perennials (optional)
- Irrigation (optional)

**TYPE 2B: RAISED PLANTER**

- 300-450mm height raised planter
- All required soil volume provided within raised planter
- Decorative planter rail (optional)
- Flowering perennials (optional)
- Irrigation (optional)
- Stormwater detention cells (provisional)

**TYPE 3A: TREE GRATE**

- All required soil volume provided beneath paved surface using a continuous soil trench\*
- 500mm paved buffer between back of curb and tree grate

*\*Refer to City approved options for tree grates in the Forestry & Horticulture Design and Preservation Manual for Assets within Public Property.*

**TYPE 3B: TREE GRATE**

- All required soil volume provided beneath paved surface using a complete soil cell system\*
- 500mm paved buffer between back of curb and tree grate

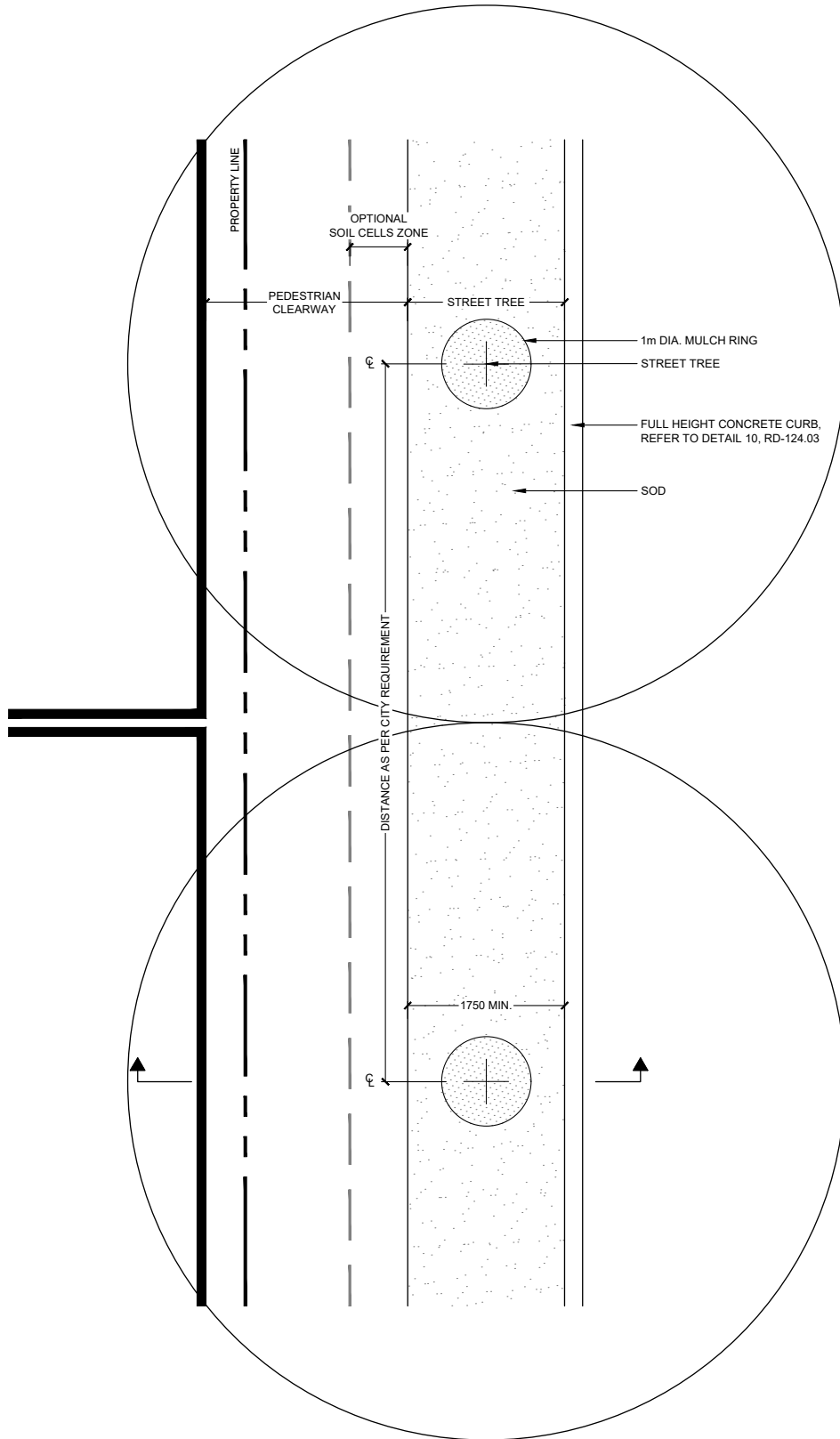
*\*Refer to City approved options for tree grates and soil cell systems in the Forestry & Horticulture Design and Preservation Manual for Assets within Public Property.*



**Hamilton**

City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL HIERARCHY**



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL - TYPE 1A  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

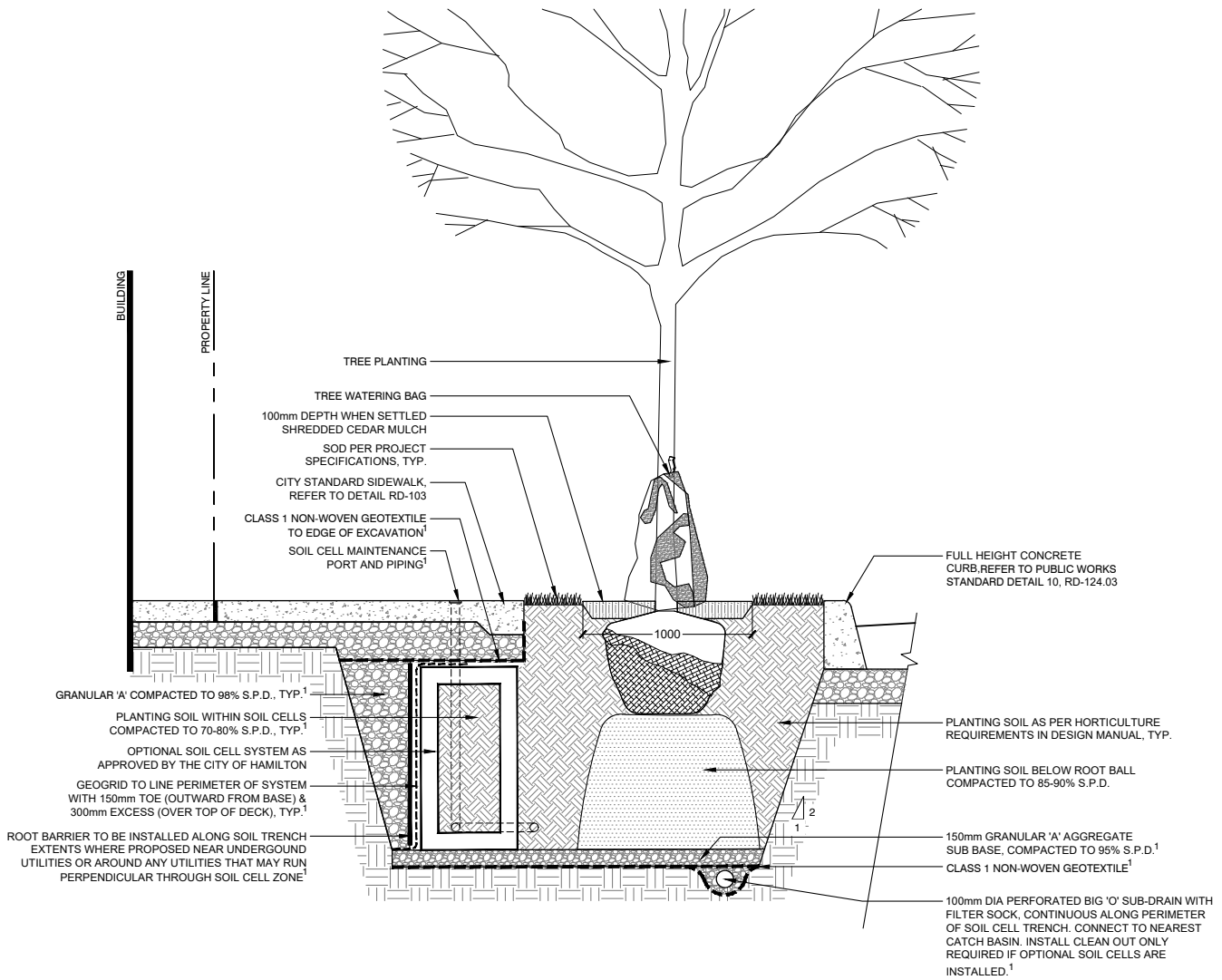
REV NO  
1

FORMERLY:

HAMILTON STD No: FH 501

NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



<sup>1</sup> ONLY APPLICABLE WHEN OPTIONAL SOIL CELLS ARE INSTALLED.



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1A  
SODDED BOULEVARD

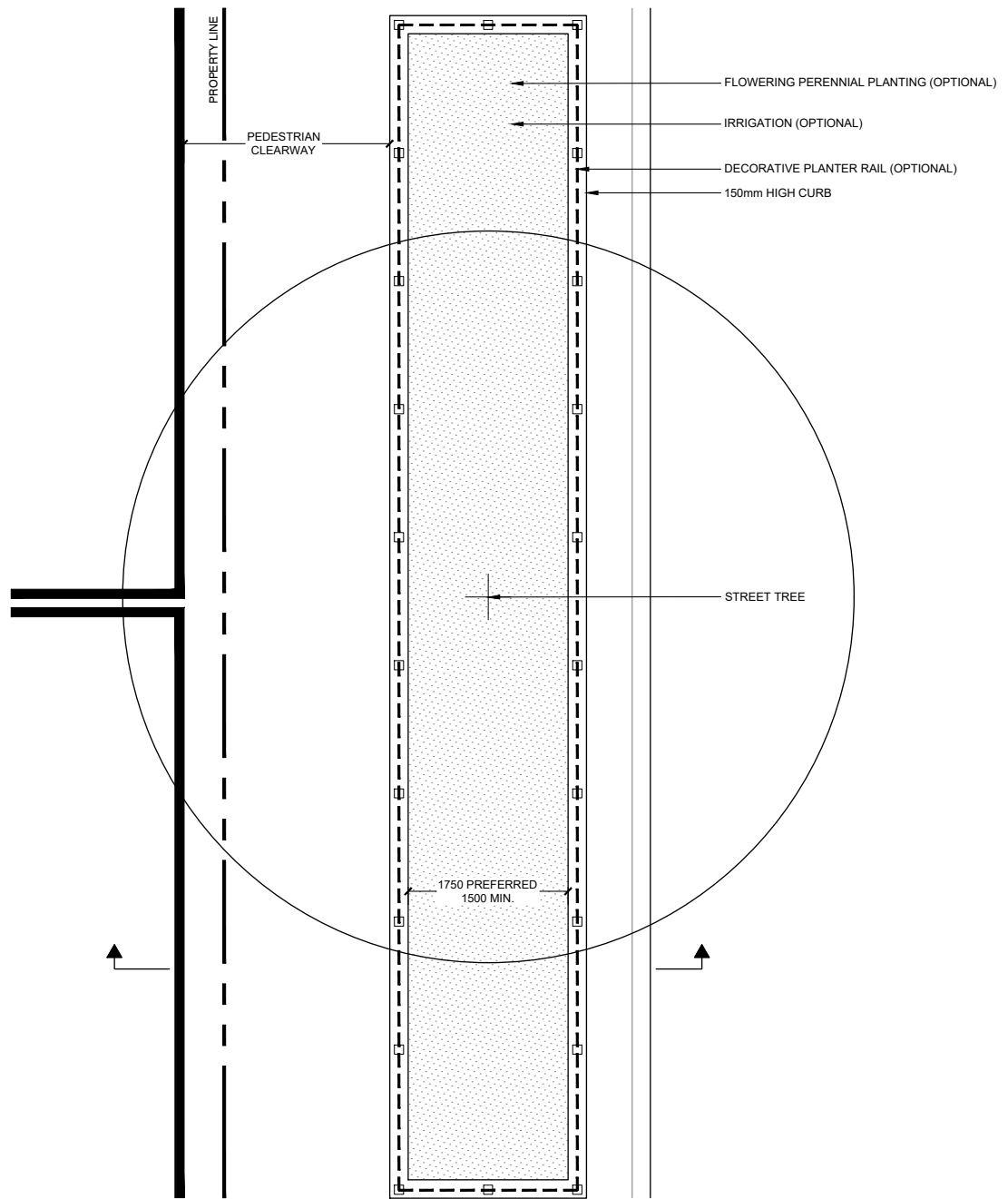
DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

FORMERLY:

HAMILTON STD No: FH 501.01



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1B  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

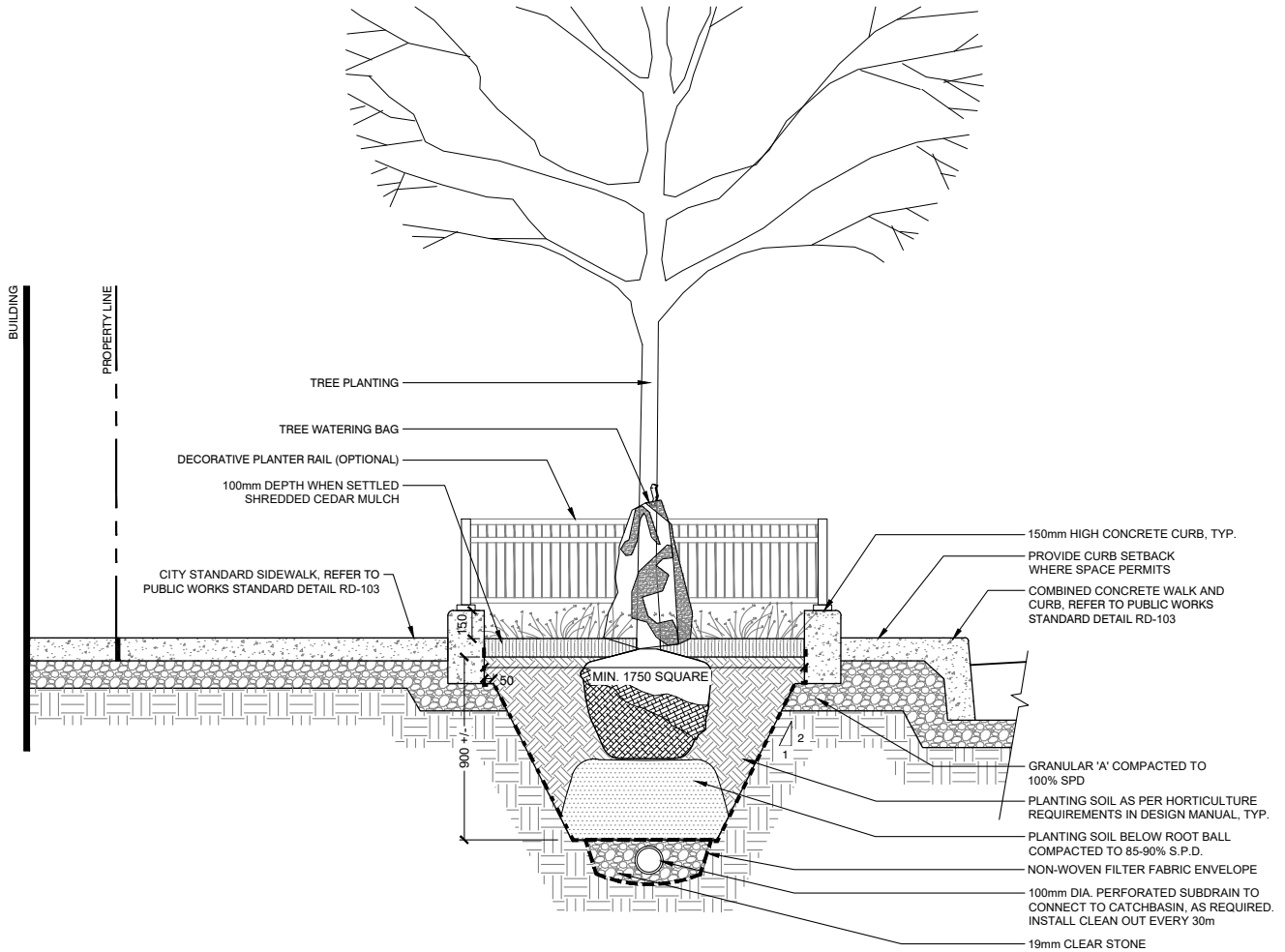
REV NO  
1

FORMERLY:

HAMILTON STD No: FH 502

**NOTES:**

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR OPEN PLANTING BEDS.
5. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
6. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL: TYPE 1B**  
**OPEN PLANTING BED**

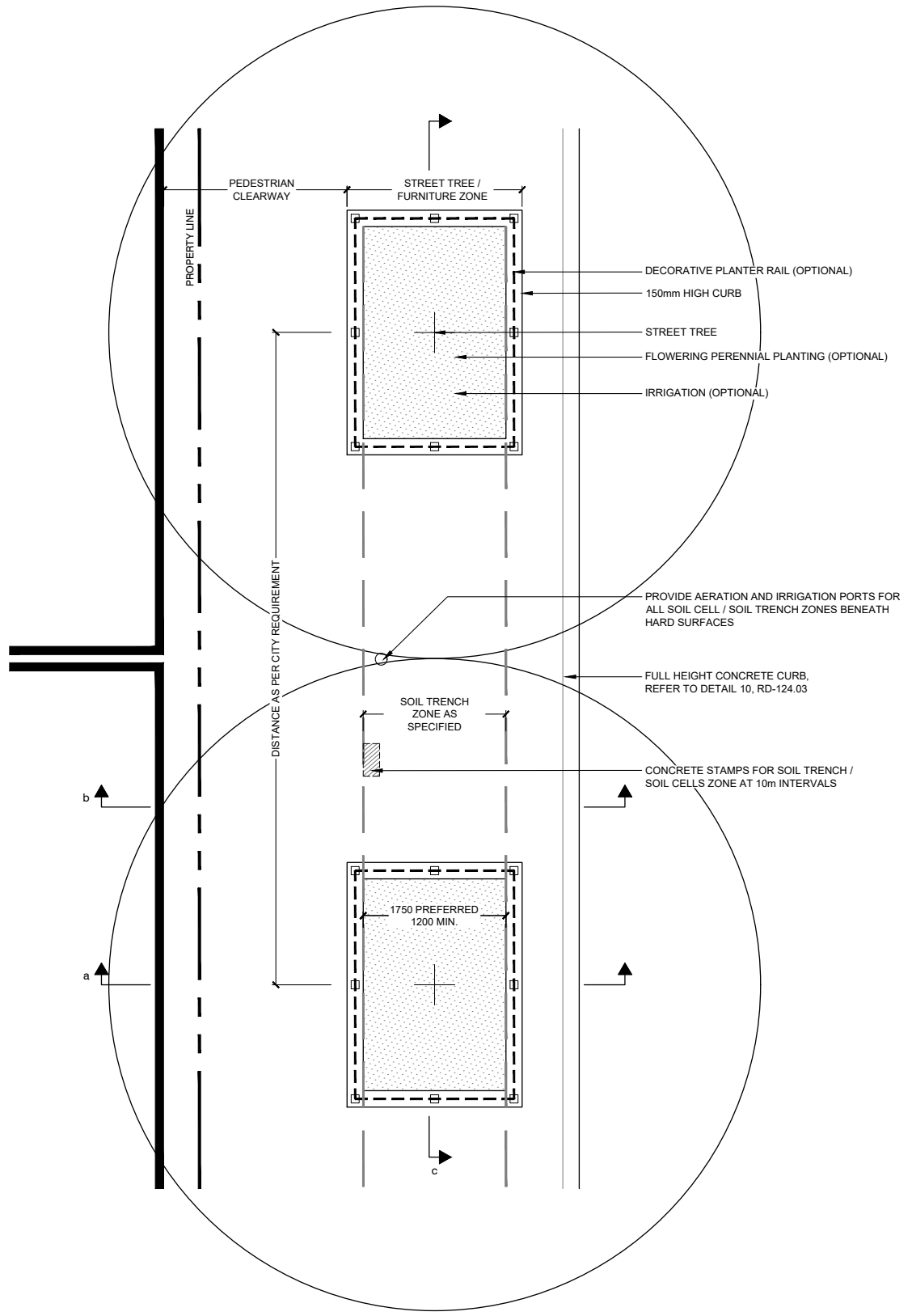
DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

FORMERLY:

HAMILTON STD No: **FH 502.01**



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1C  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

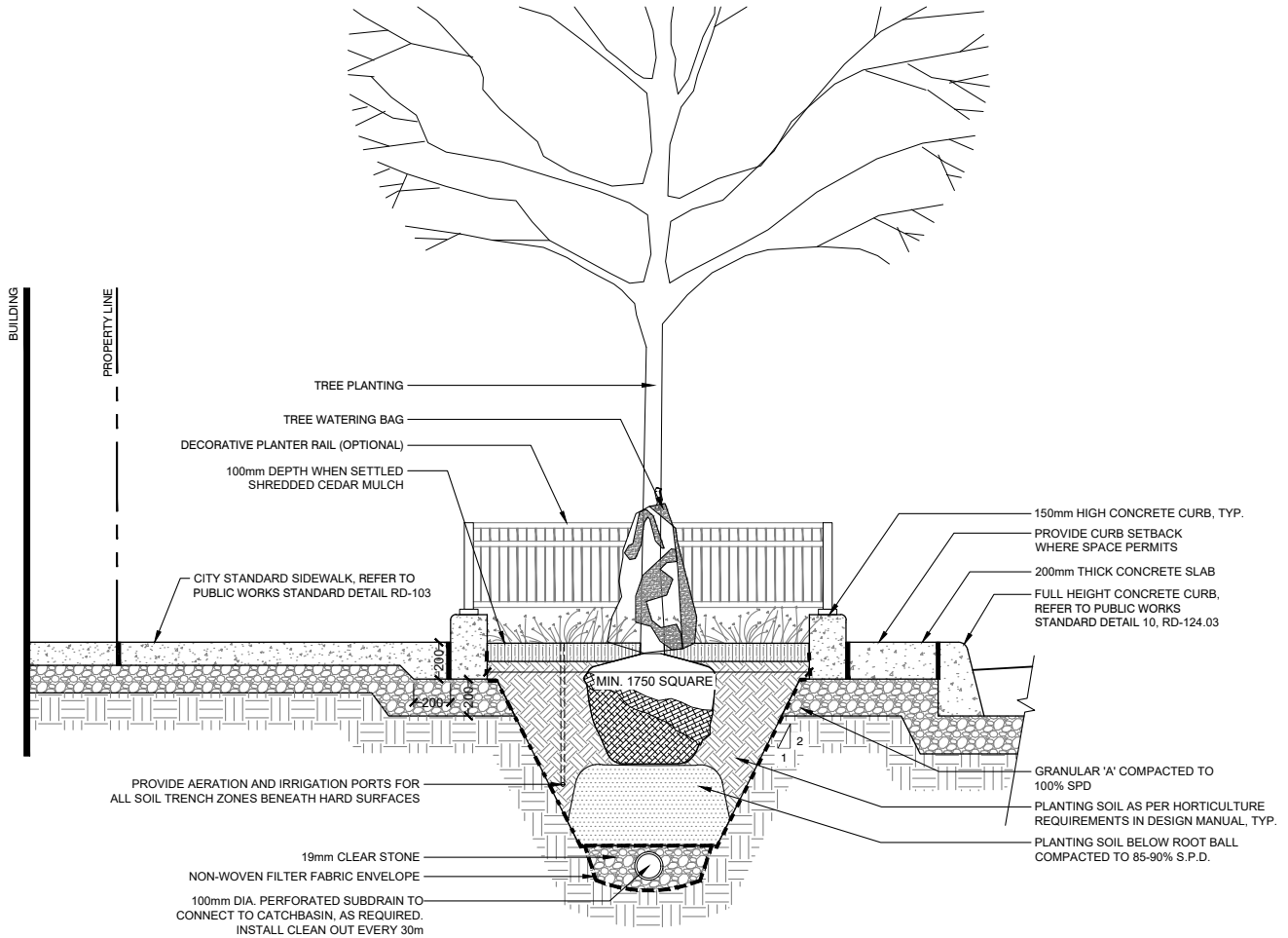
REV NO  
1

FORMERLY:

HAMILTON STD No: FH 503

NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURAL DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR OPEN PLANTING BEDS.
5. SUSPENDED CONCRETE SLAB TO BE STAMPED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
6. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
7. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1C - a  
OPEN PLANTING BED (SOIL TRENCH)

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

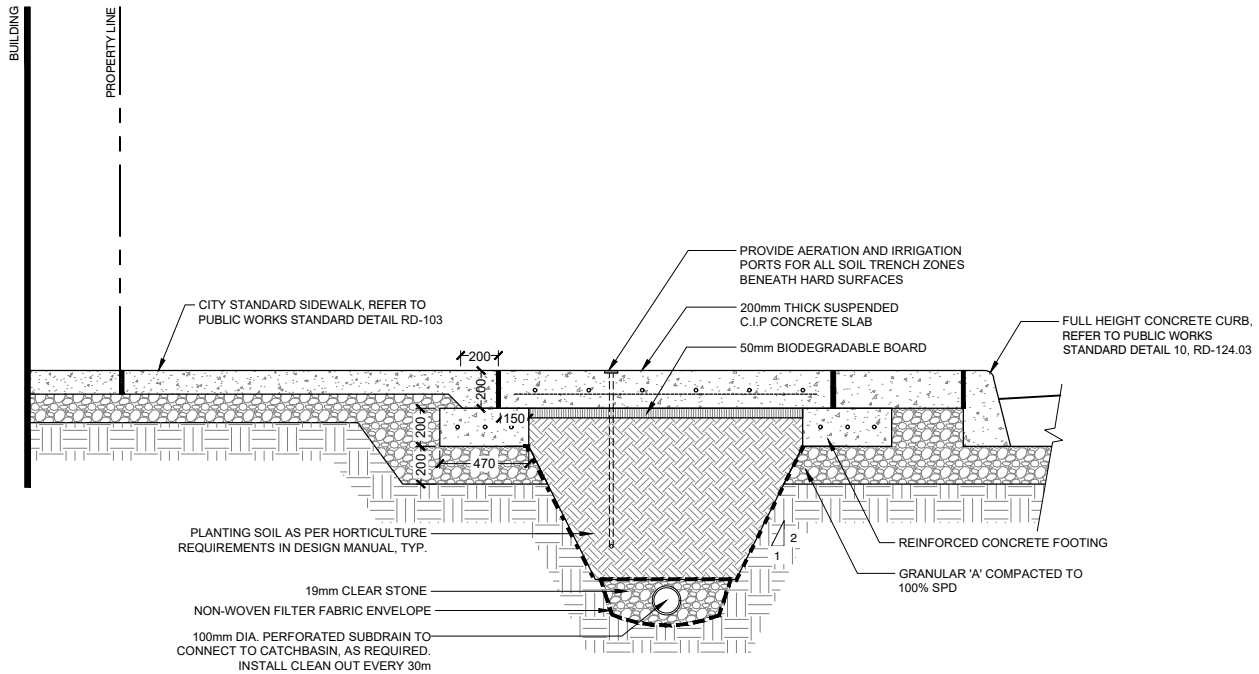
REV NO  
1

FORMERLY:

HAMILTON STD No: FH 503.01

NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURAL DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR OPEN PLANTING BEDS.
5. SUSPENDED CONCRETE SLAB TO BE STAMPED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
6. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
7. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



**Hamilton**

City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL: TYPE 1C - b  
OPEN PLANTING BED (SOIL TRENCH)**

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

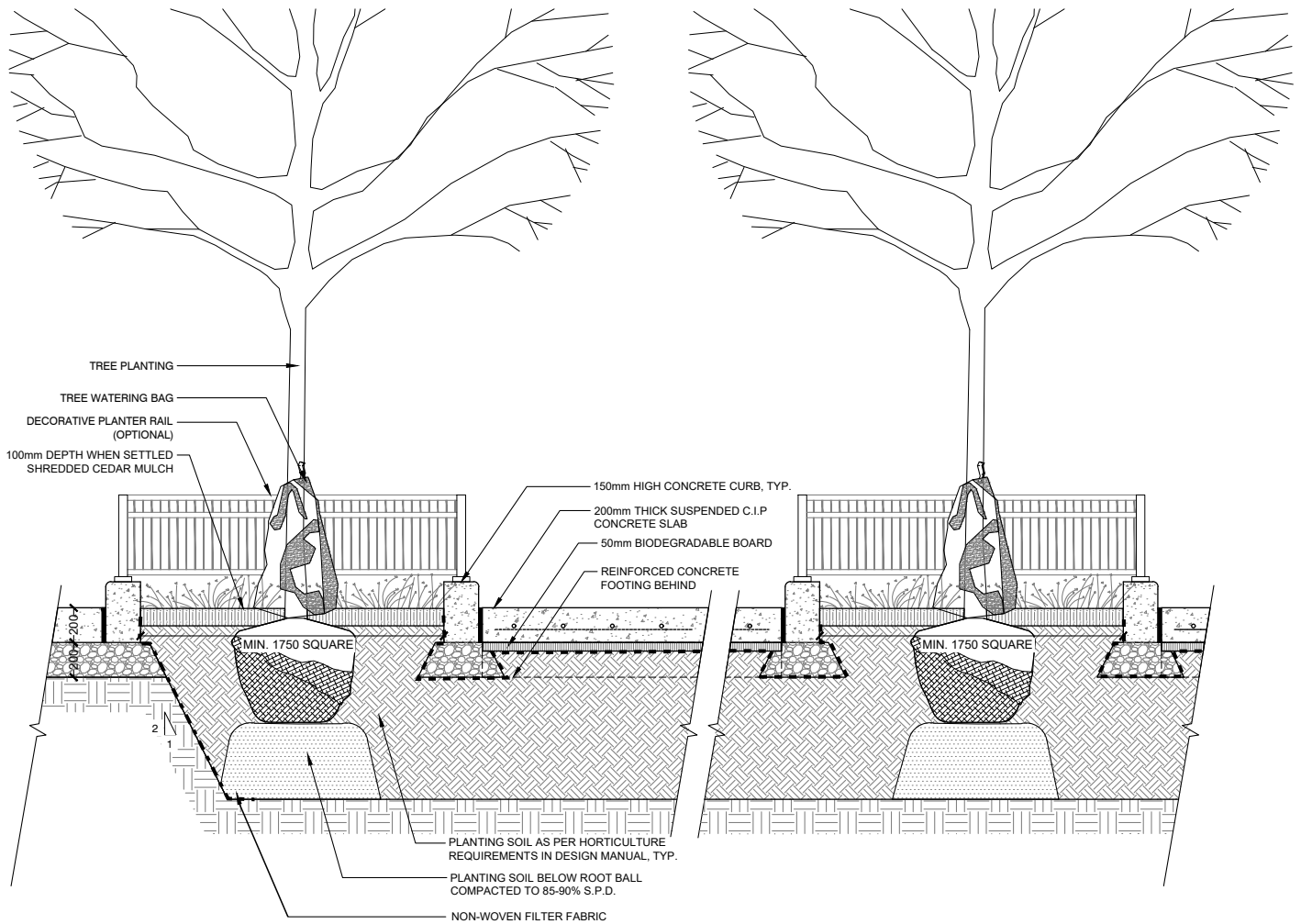
FORMERLY:

HAMILTON STD No: **FH 502.02**



NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURAL DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR OPEN PLANTING BEDS.
5. SUSPENDED CONCRETE SLAB TO BE STAMPED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
6. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
7. SUBDRAINS MUST BE ADDED IN HIGH WATER TABLE AREAS.



**Hamilton**

City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL: TYPE 1C - c**  
**OPEN PLANTING BED (SOIL TRENCH)**

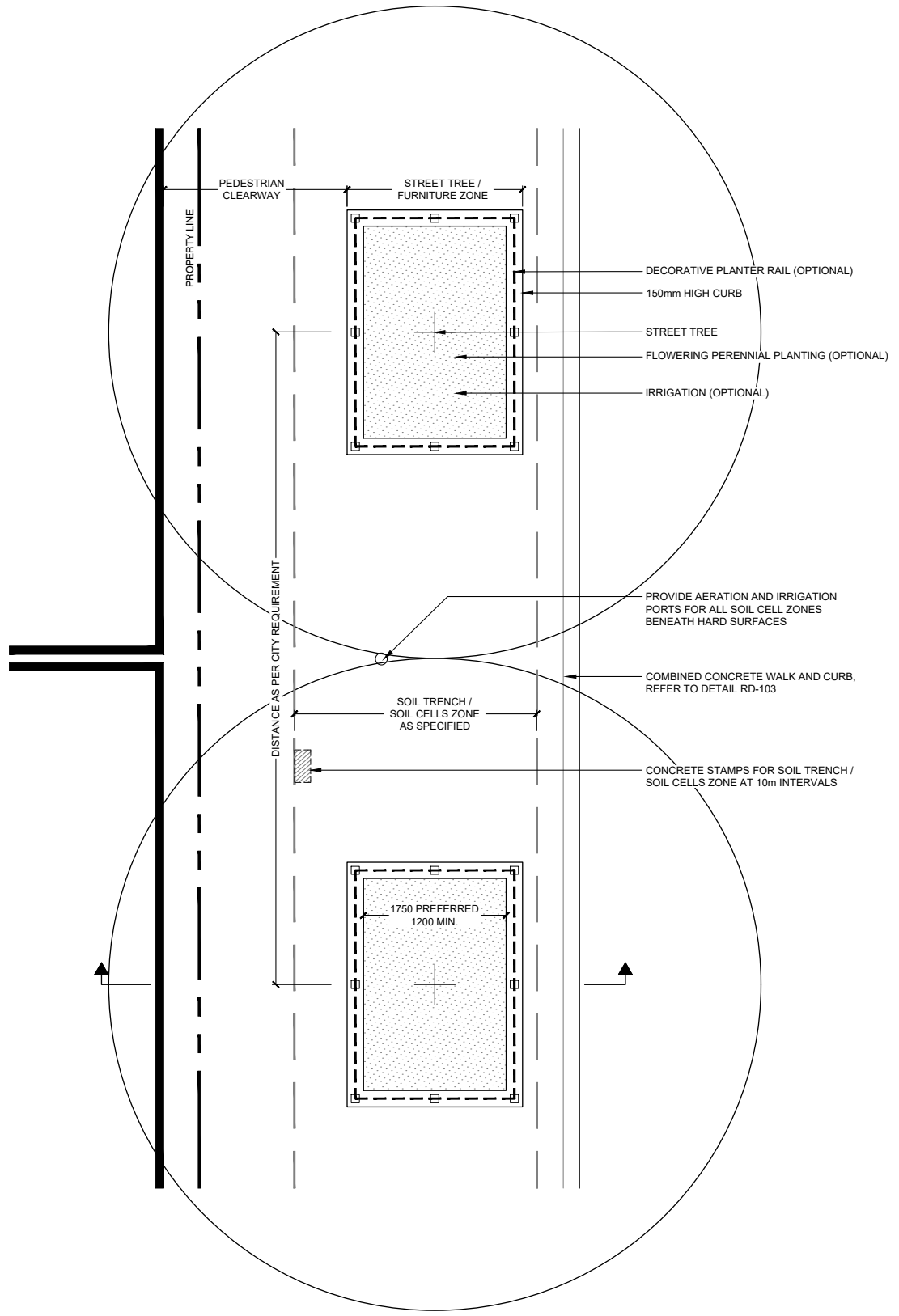
DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

FORMERLY:

HAMILTON STD No: **FH 502.03**



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1D  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

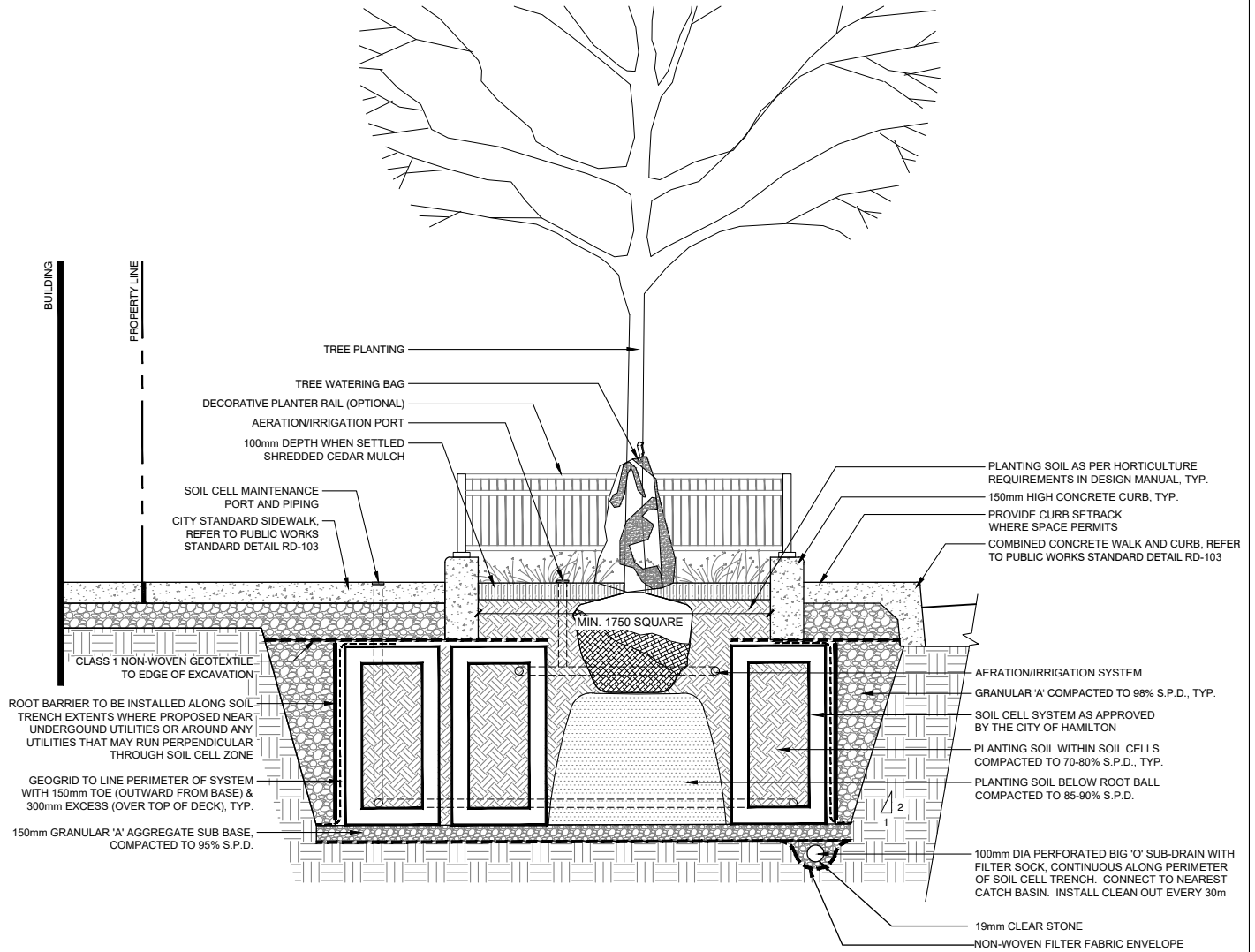
REV NO  
1

FORMERLY:

HAMILTON STD No: **FH 504**

**NOTES:**

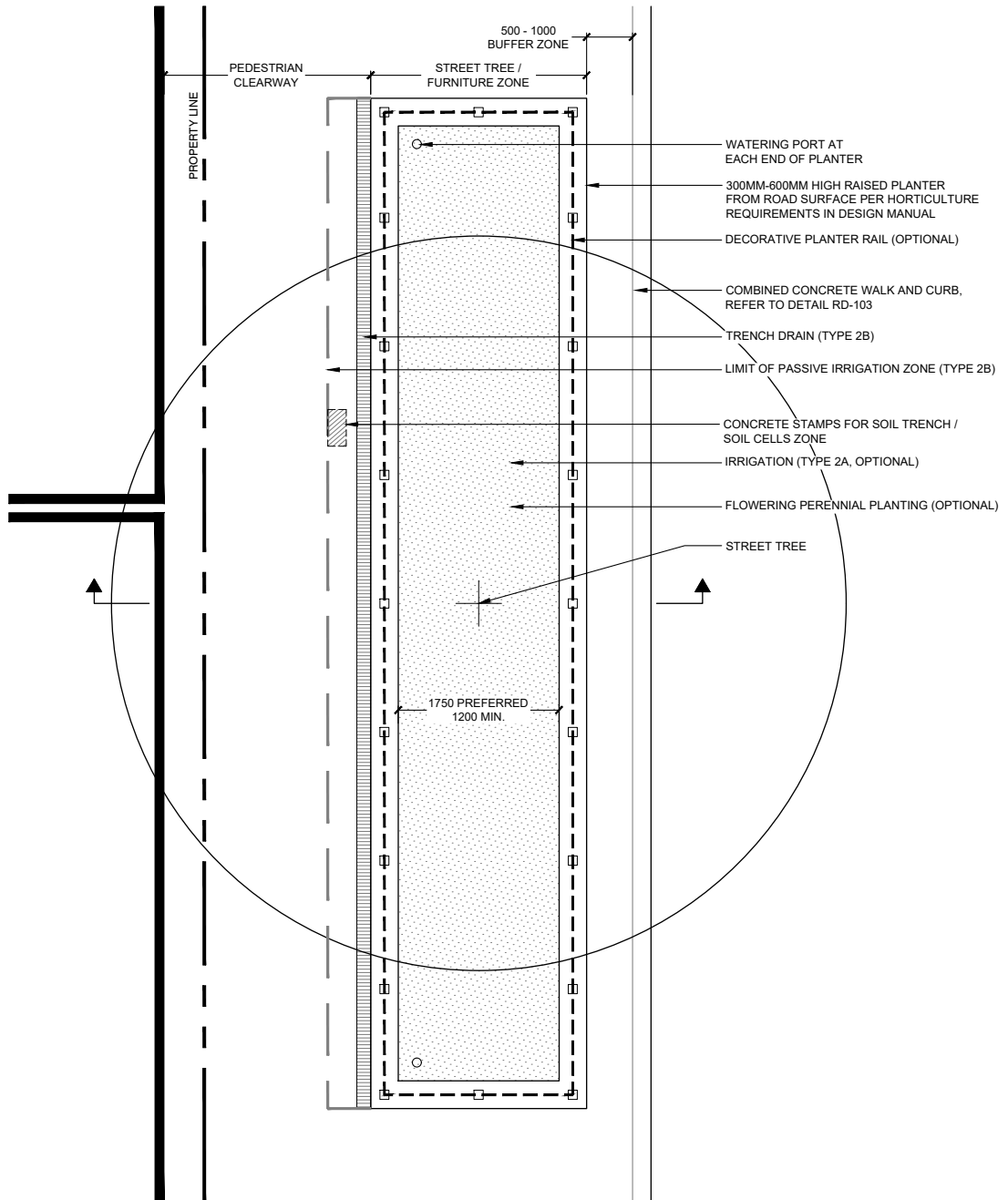
1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR OPEN PLANTING BEDS.
5. SOIL CELLS SHALL BE INSTALLED AS A COMPLETE SYSTEM IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S DETAILS AND SPECIFICATIONS.
6. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
7. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 1D  
OPEN PLANTING BED (SOIL CELLS)

DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED (N.T.S.)	DATE NOV 2024	REV NO 1	FORMERLY:	HAMILTON STD No: FH 504.01
---	------------------	-------------	-----------	----------------------------



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 2  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

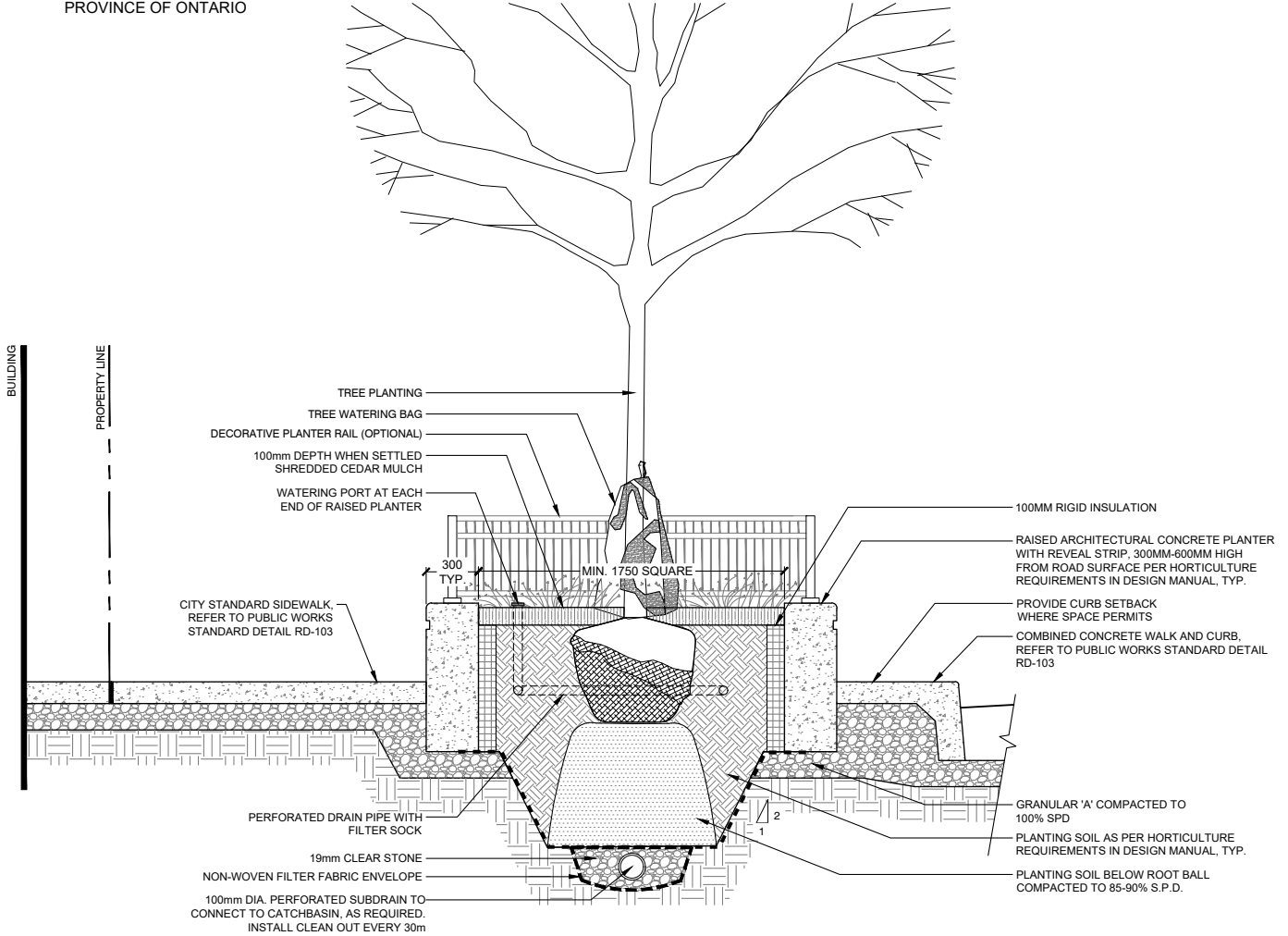
REV NO  
1

FORMERLY:

HAMILTON STD No: **FH 505**

**NOTE:**

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR RAISED PLANTERS.
5. ENSURE POSITIVE DRAINAGE AWAY FROM PLANTER.
6. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 2A  
RAISED PLANTER

DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

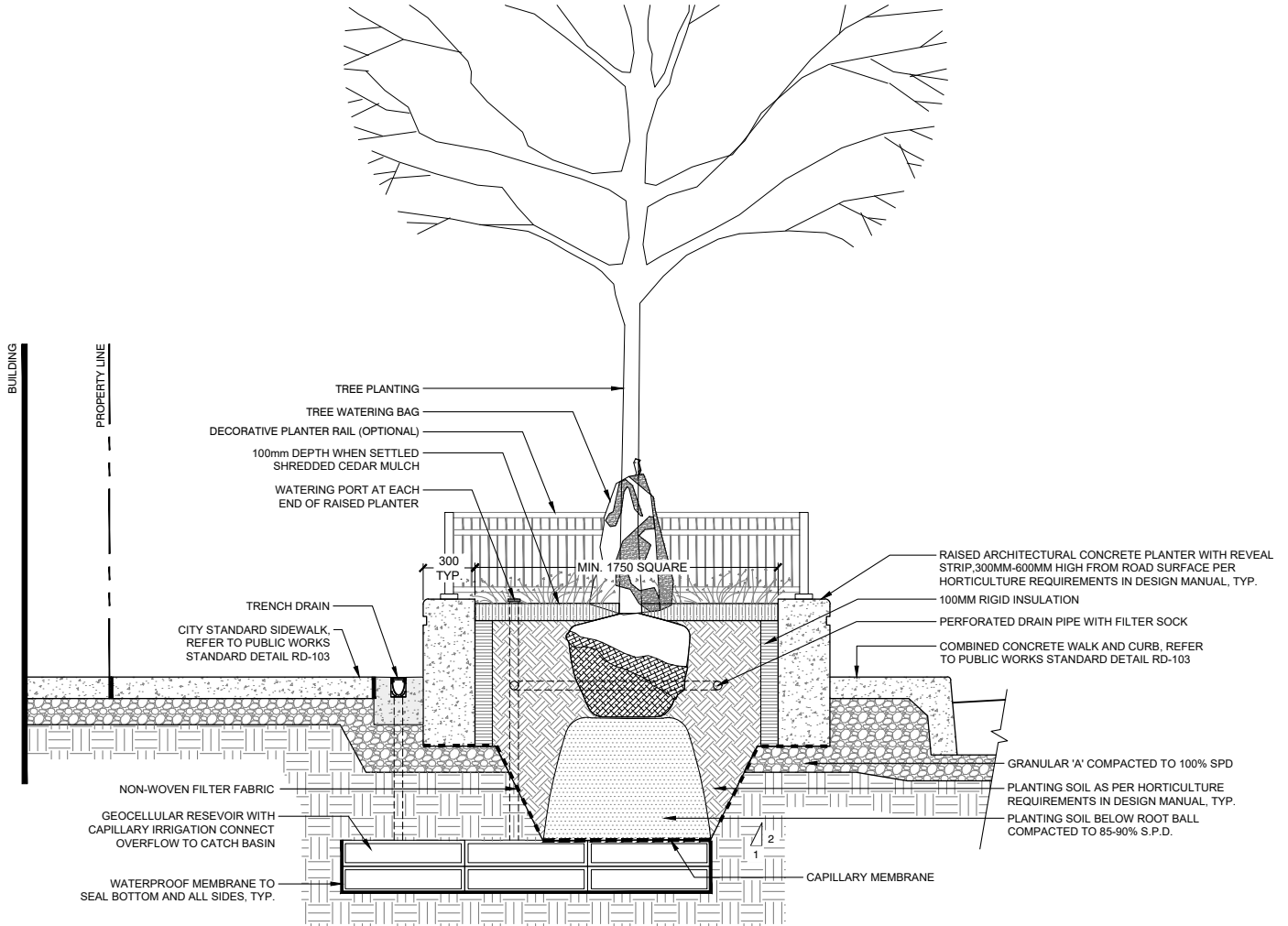
REV NO  
1

FORMERLY:

HAMILTON STD No: FH 505.01

NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. CONSIDERATION SHALL BE GIVEN TO DECORATIVE PLANTER RAILS FOR RAISED PLANTERS.



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 2B  
RAISED PLANTER (STORMWATER DETENTION CELLS)

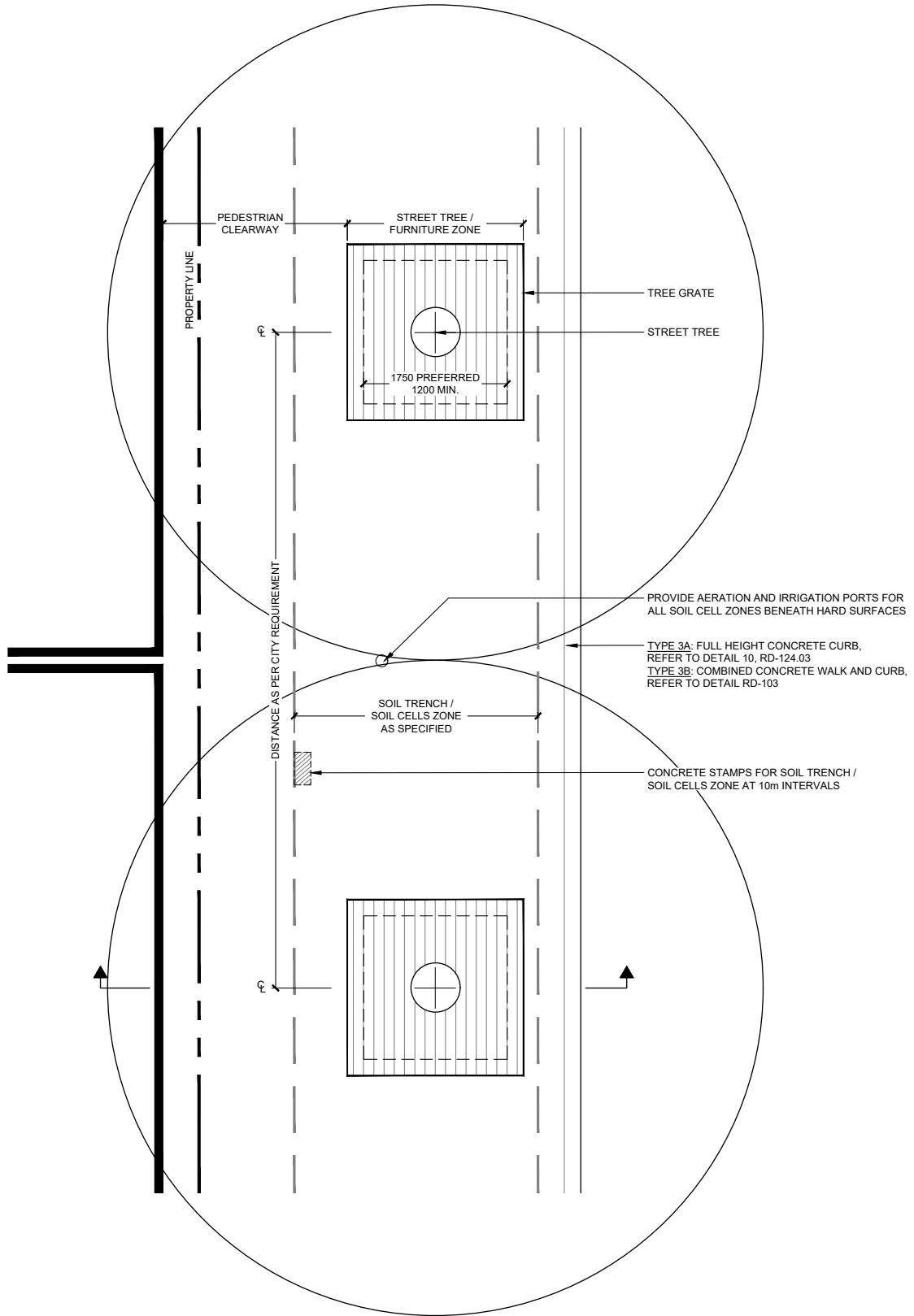
DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

FORMERLY:

HAMILTON STD No: FH 505.02



City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL: TYPE 3**  
KEY PLAN

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

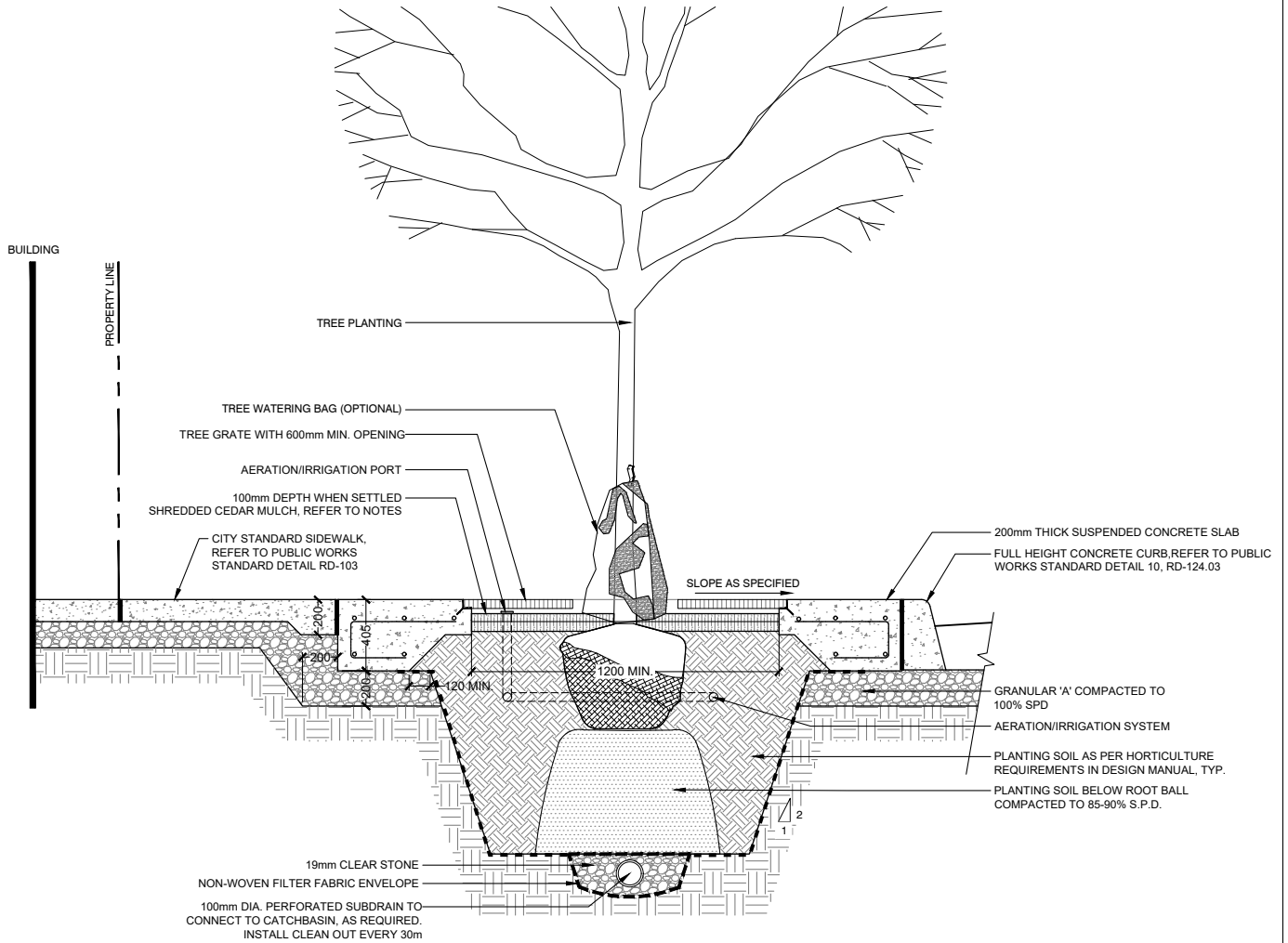
REV NO  
1

FORMERLY:

HAMILTON STD No: **FH 506**

NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. SUSPENDED CONCRETE SLAB TO BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
5. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



**Hamilton**

City of Hamilton  
Public Works Department

**HARD SURFACE DETAIL: TYPE 3A  
TREE GRATE (SOIL TRENCH)**

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

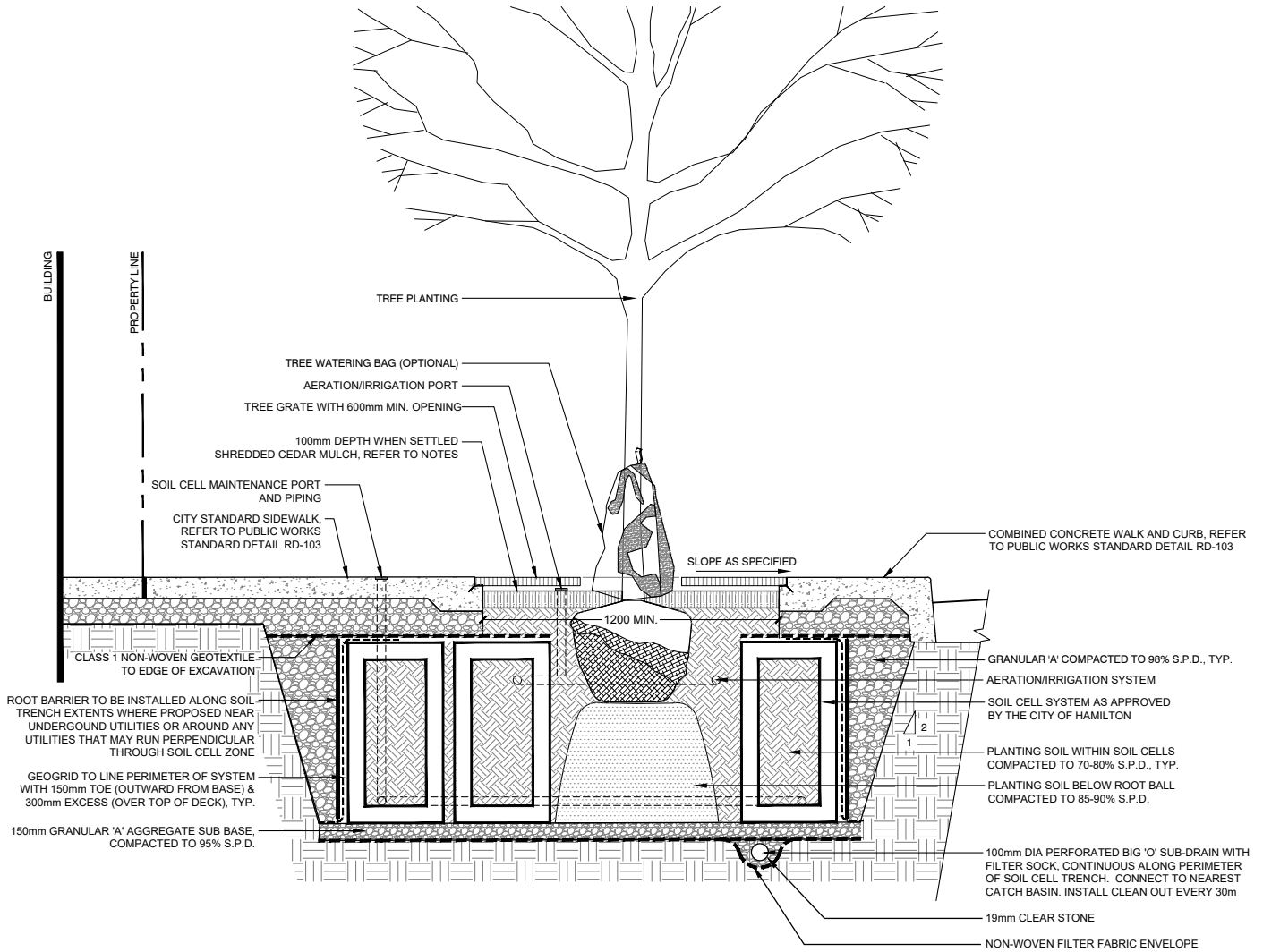
FORMERLY:

HAMILTON STD No: **FH 506.01**



NOTES:

1. SOIL TESTING TO BE COMPLETED AS PER REQUIREMENTS OF THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
2. MINIMUM SOIL VOLUMES SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF HAMILTON'S FORESTRY AND HORTICULTURE DESIGN AND PRESERVATION MANUAL FOR ASSETS WITHIN PUBLIC PROPERTY.
3. IRRIGATION SHALL ONLY BE CONSIDERED FOR APPLICATIONS THAT MEET THE CRITERIA FOR IRRIGATION AS OUTLINED IN THE DESIGN AND PRESERVATION MANUAL.
4. INSTALL SUBDRAIN WHERE SOIL INFILTRATION RATES ARE LESS THAN 15mm/hr, WHEN TREE TRENCH IS MEMBRANE LINED OR WHEN RECOMMENDED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO



City of Hamilton  
Public Works Department

HARD SURFACE DETAIL: TYPE 3B  
TREE GRATE (SOIL CELLS)

DIMENSIONS ARE SHOWN IN MILLIMETERS  
UNLESS OTHERWISE NOTED (N.T.S.)

DATE  
NOV 2024

REV NO  
1

FORMERLY:

HAMILTON STD No: FH 506.02