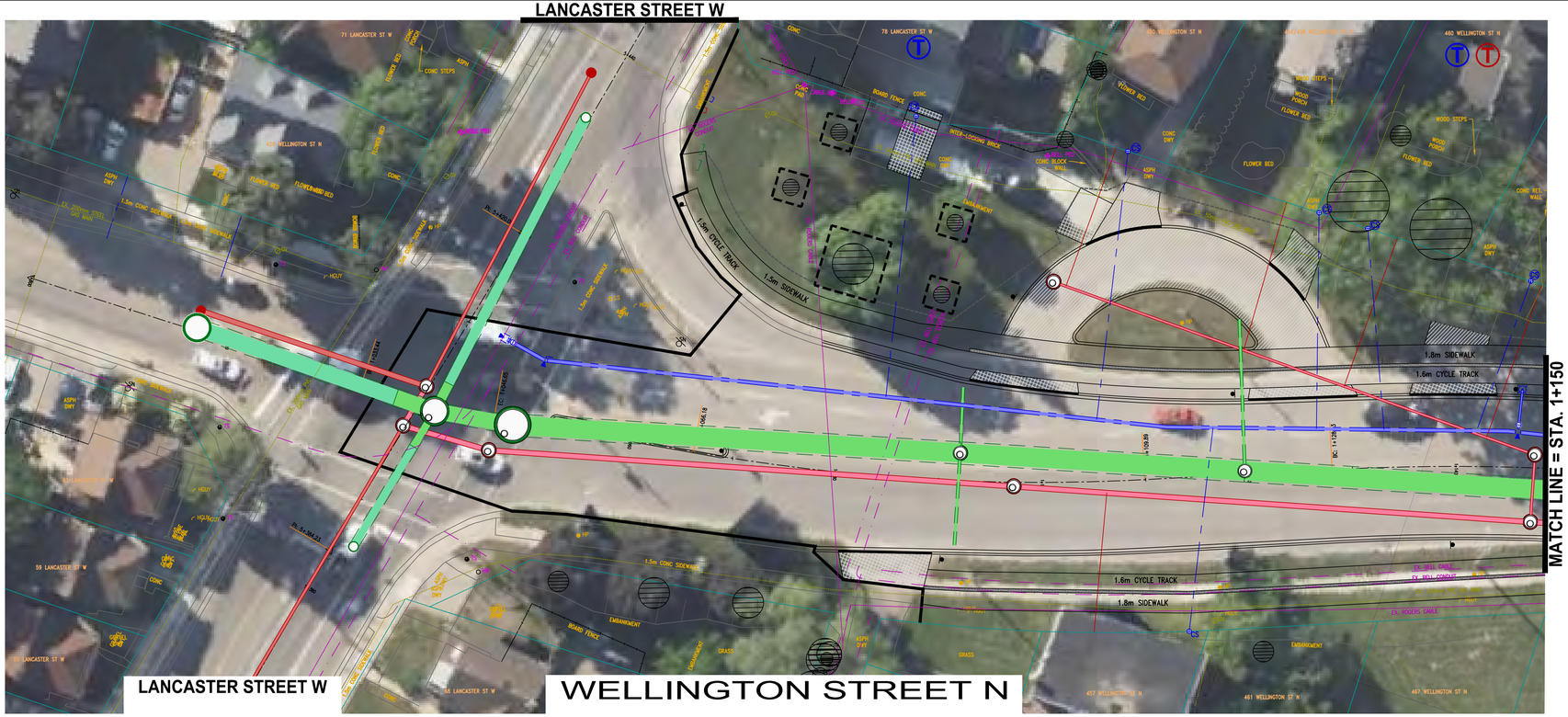
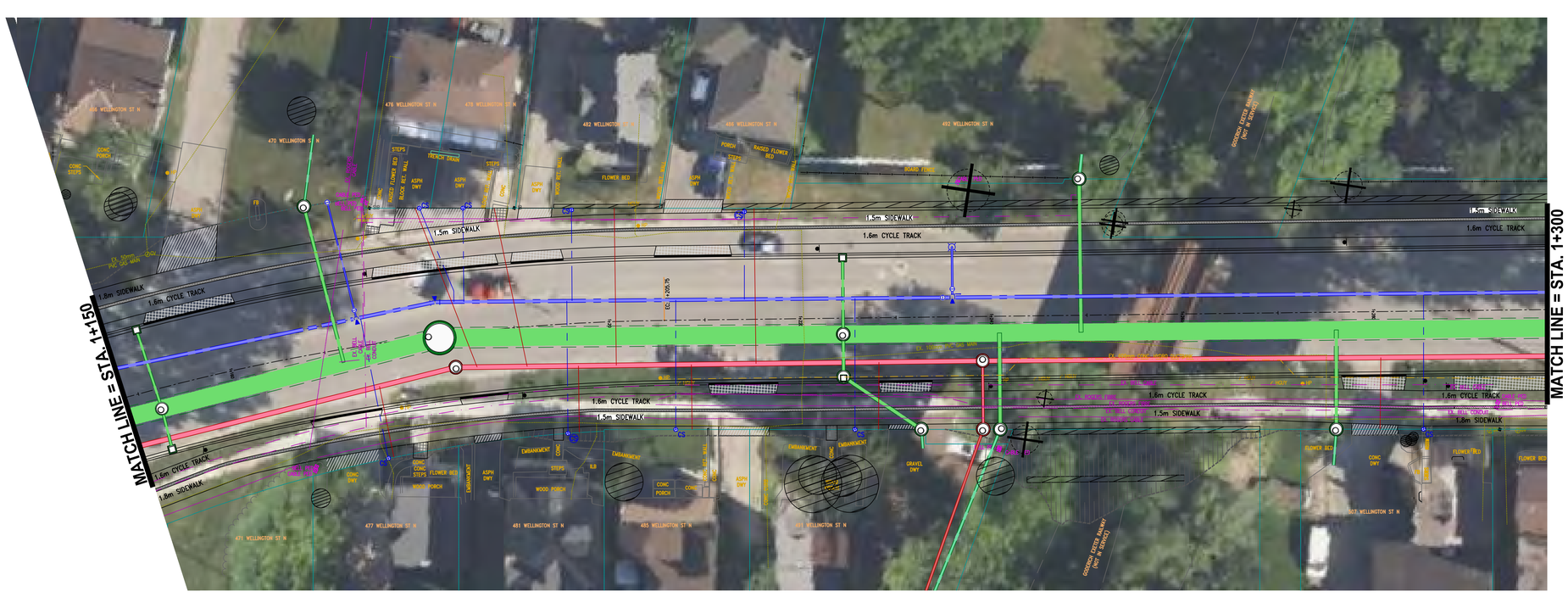




WELLINGTON STREET N

constructionNORTH | trueNORTH

THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE N O T NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

BEFORE STARTING WORK

THE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION OF ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.

LEGEND

- TREE TO REMAIN
  - CANOPY
  - CRITICAL ROOT ZONE
- SIGNIFICANT TREE TO REMAIN
- TREE TO BE REMOVED
- STUMP — STUMP TO BE REMOVED
- PROPOSED TREE PLANTING
- TREE PROTECTION FENCING
- PROPOSED SANITARY AND/OR WATER SERVICES TO BE INSTALLED USING TRENCHLESS MEHTOD
- TPZ — TREE PROTECTION ZONE
- RHCZ — ROOT HABITAT CONSERVATION ZONE

TREES/ STUMPS IDENTIFIED FOR REMOVAL ON THIS PLAN ARE TO BE REMOVED BY CONTRACTOR UNLESS NOTED ON DRAWING.
SPECIAL CONDITIONS MAY APPLY FOR TREES ADJACENT TO HYDROLINES.

TOPSOIL AND GRASS WITHIN TREE PROTECTION ZONES TO REMAIN

SURVEY

CONDITION SURVEY BY CITY OF KITCHENER JAN. 2009
FIELDBOOK # 00-000

BENCHMARK

CITY OF KITCHENER BM # 1323
LIQUOR CONTROL BOARD BUILDING ON THE SOUTH SIDE OF VICTORIA ST N (617) NEAR CORNER OF EDNA ST. TABLET IS SET HORIZONTALLY IN THE SOUTH FACE OF CONCRETE FOUNDATION, BEING 12.4 FEET EAST OF THE SOUTH WEST CORNER AND 0.3 FEET BELOW THE FIRST COURSE OF BRICKWORK

ELEV. = 329.154m

NO.	REVISION	BY	MM/DD/YY
7.			
6.			
5.			
4.			
3.	ISSUED FOR TENDER	MC	01/23/26
2.	90% SUBMISSION	MC	10/24/25
1.	60% SUBMISSION	MC	06/06/25

KITCHENER

The Corporation Of The
CITY OF KITCHENER

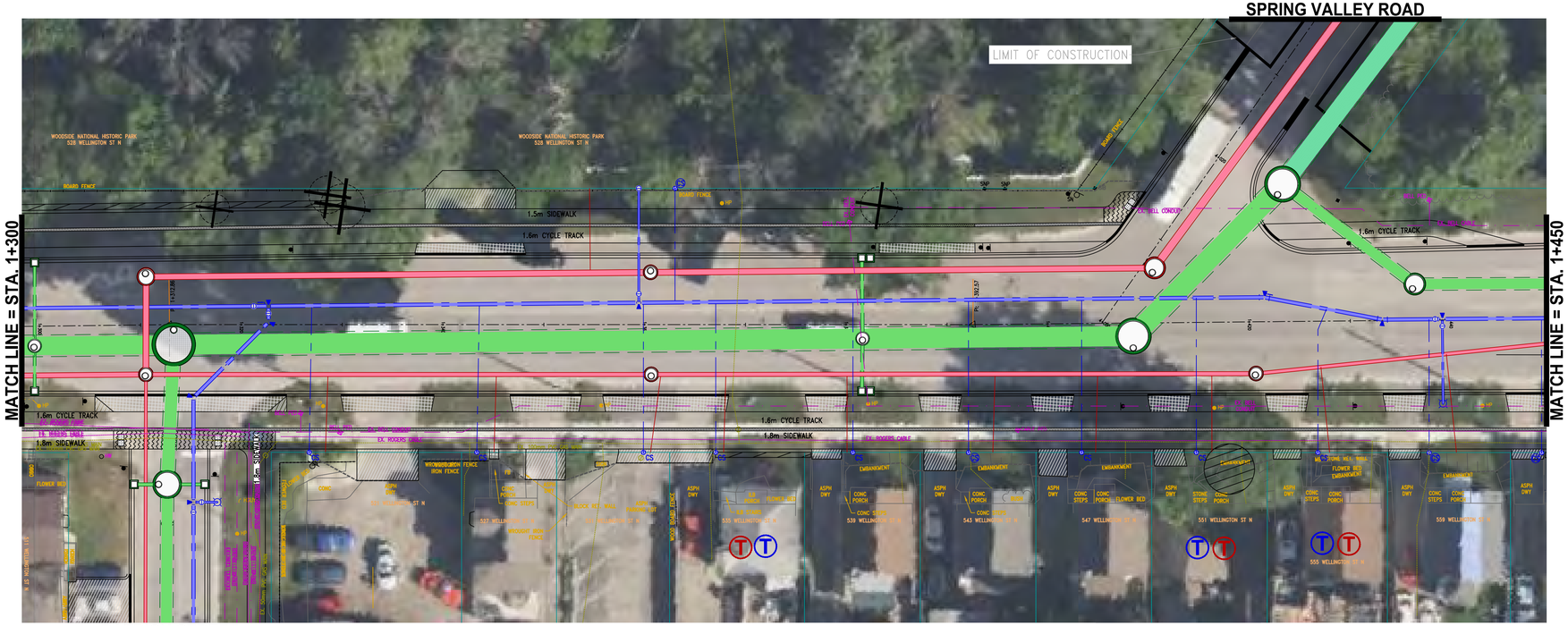
Development Services
Engineering Division

WALTERFEDY

TREE MANAGEMENT PLAN
WELLINGTON STREET N
FROM STA. 1+000 TO STA. 1+300

DESIGNED BY:	APPROVED BY:	DRAWN BY:
DNM	MC	DNM
		CHECKED BY: PR/MC
		SCALE: HOR. 1:250
		DATE: (MM.DD.YY) 01.23.26
CONSULTANT DWG. No. XX	SHEET No. 1 of 5	DWG. No. XXXX

Date: Jan. 23, 2026 - 10:17 am Plotted by: dmoura Filename: C:\Users\dmoura\appdata\local\temp\AcPublish_13664\2023-0855-10_TMP PLT_1.dwg


SPRING VALLEY ROAD
LIMIT OF CONSTRUCTION
MATCH LINE = STA. 1+300
MATCH LINE = STA. 1+450
WOODSIDE NATIONAL HISTORIC PARK
528 WELLINGTON ST N
BOARD FENCE
1.5m SIDEWALK
1.6m CYCLE TRACK
1.8m SIDEWALK
EX. ROGERS CABLE
EX. BELL CONDUIT
EX. HYDRO
EX. ROGERS
EX. BELL
EX. WATERMAIN
EX. SANITARY
EX. STORM
EX. GAS
EX. HP
EX. CS
EX. SAN
EX. SAN MH
EX. CB
EX. CB MH
EX. SV
EX. SV MH
EX. HYDRO MH
EX. BELL MH
EX. TREE
EX. TREE CANOPY
EX. TREE CRITICAL ROOT ZONE
EX. TREE TO BE REMOVED
EX. STUMP
EX. TREE PROTECTION FENCING
EX. TREE PROTECTION ZONE
EX. ROOT HABITAT CONSERVATION ZONE
EX. CONC SIDEWALK
EX. ASPH SIDEWALK
EX. ASPH DWY
EX. CONC DWY
EX. CONC STEPS
EX. CONC PORCH
EX. STONE STEPS
EX. STONE PORCH
EX. FLOWER BED
EX. EMBANKMENT
EX. RETAINING WALL
EX. WOOD RAIL FENCE
EX. WOOD BOARD FENCE
EX. WROUGHT IRON FENCE
EX. CHAIN LINK FENCE
EX. BRICK WALL
EX. CONCRETE WALL
EX. STONE WALL
EX. BUILDING
EX. BUILDING OVERHANG
EX. BUILDING ENTRANCE
EX. BUILDING WINDOW WELL
EX. BUILDING BASEMENT ENTRANCE
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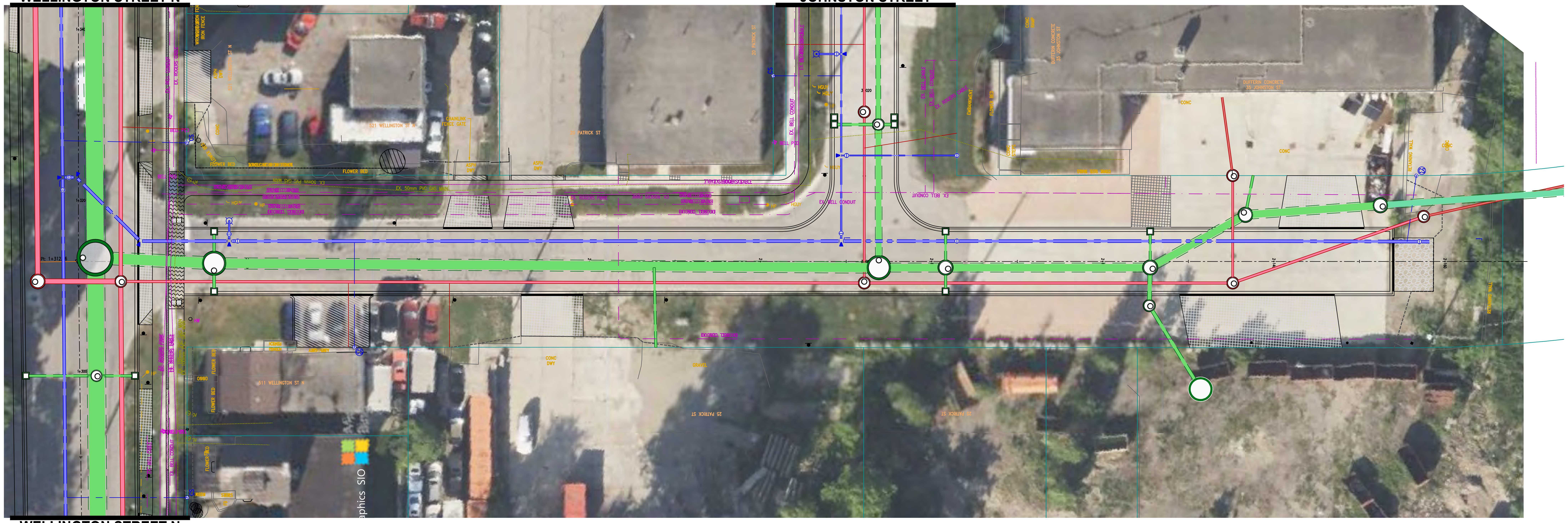
MATCH LINE (SEE SHEET 2)
WELLINGTON STREET N

MATCH LINE (SEE SHEET 4)
JOHNSTON STREET



WELLINGTON STREET N
MATCH LINE (SEE SHEET 1)

PATRICK STREET

constructionNORTH trueNORTH

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LEGEND

- TREE TO REMAIN — CANOPY — CRITICAL ROOT ZONE
- SIGNIFICANT TREE TO REMAIN
- TREE TO BE REMOVED
- STUMP — STUMP TO BE REMOVED
- PROPOSED TREE PLANTING
- TREE PROTECTION FENCING
- PROPOSED SANITARY AND/OR WATER SERVICES TO BE INSTALLED USING TRENCHLESS MEHTOD
- TPZ — TREE PROTECTION ZONE
- RHCZ — ROOT HABITAT CONSERVATION ZONE

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TOPSOIL AND GRASS WITHIN TREE PROTECTION ZONES TO REMAIN

SURVEY

CONDITION SURVEY BY CITY OF KITCHENER JAN. 2009
FIELDBOOK # 00–000

BENCHMARK

CITY OF KITCHENER BM # 1323
LIQUOR CONTROL BOARD BUILDING ON THE SOUTH SIDE OF VICTORIA ST N (617) NEAR CORNER OF EDNA ST. TABLET IS SET HORIZONTALLY IN THE SOUTH FACE OF CONCRETE FOUNDATION, BEING 12.4 FEET EAST OF THE SOUTH WEST CORNER AND 0.3 FEET BELOW THE FIRST COURSE OF BRICKWORK

ELEV. = 329.154m

NO.	REVISION	BY	MM/DD/YY
7.			
6.			
5.			
4.			
3.	ISSUED FOR TENDER	MC	01/23/26
2.	90% SUBMISSION	MC	10/24/25
1.	60% SUBMISSION	MC	06/06/25

KITCHENER
The Corporation Of The
CITY OF KITCHENER

Development Services
Engineering Division

WALTERFEDY

TREE MANAGEMENT PLAN
PATRICK STREET
FROM STA. 2+000 TO STA. 2+170

DESIGNED BY: DNM	APPROVED BY: MC	DRAWN BY: DNM
		CHECKED BY: PR/MC
		SCALE: HOR. 1:250
		DATE: (MM.DD.YY) 01.23.26
CONSULTANT DWG. No. XX	SHEET No. 3 of 5	DWG. No. XXXX

Date: Jan. 23, 2026 – 10:18 am Plotted by: dmoura Filename: C:\Users\dmoura\appdata\local\temp\AcPublish_13664\2023-0855-10_TMP PLT_1.dwg



JOHNSTON STREET



JOHNSTON STREET

constructionNORTH | trueNORTH

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- SIGNIFICANT TREE TO REMAIN
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CONDITION SURVEY BY CITY OF KITCHENER JAN. 2009
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BENCHMARK

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KITCHENER

The Corporation Of The
CITY OF KITCHENER

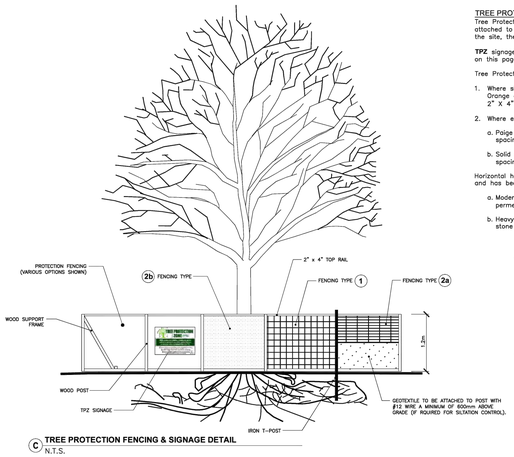
Development Services
Engineering Division

WALTERFEDY

TREE MANAGEMENT PLAN
JOHNSTON STREET
FROM STA. 3+000 TO STA. 3+250

DESIGNED BY:	APPROVED BY:	DRAWN BY:
DNM	MC	DNM
		CHECKED BY: PR/MC
		SCALE: HOR. 1:250
		DATE: (MM.DD.YY) 01.23.26
CONSULTANT DWG. No. XX	SHEET No. 4 of 5	DWG. No. XXXX

Date: Jan. 23, 2026 - 10:18 am Plotted by: dmoura Filename: C:\Users\dmoura\appdata\local\temp\AcPublish_13664\2023-0855-10_TMP PLT_1.dwg



C TREE PROTECTION FENCING & SIGNAGE DETAIL
N.T.S.

TREE PROTECTION FENCING NOTES

Tree Protection Zone **(TPZ)** signage mounted on Gator Board or Corrugated Plastic Sheet must be attached to the outside of the Tree Protection Fencing. Signage must be clearly visible to those entering the site, the minimum size is to be 40cm X 60cm (16" X 24").

TPZ signage must be paid for and installed by the Contractor. Any variations to the TPZ signage shown on this page require approval by Urban Forestry.

Tree Protection Fencing (TPF) must be 1.2m in height and must consist of one of the following options:

1. Where sight lines or visibility may be impeded:
   Orange construction fence secured to 2" X 4" wood frame or iron T-posts @ 2.4m spacing with 2" X 4" top rail for support.
2. Where excavation or fill must be placed temporarily near TPZs:
   a. Paige wire fence strand attached to sediment control fencing and secured to iron T-posts @ 2.4m spacing.
   b. Solid plywood hoarding secured to 2" X 4" wood frame, wood posts, or iron T-posts @ 2.4m spacing.

Horizontal hoarding shall be used in locations where movement of equipment through the **TPZ** is required and has been approved by UF. Horizontal hoarding options consist of:

a. Moderate root zone compaction: 3/4" plywood over 150mm of woodchip mulch over staked down permeable geotextile.

b. Heavy root zone compaction: Steel plate over 150mm of woodchip mulch over 100m of clear stone over staked down permeable geotextile.



TREE PROTECTION ZONE SIGNAGE

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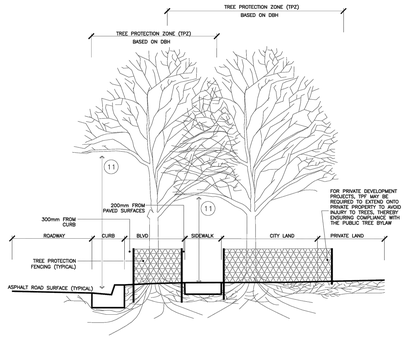
The Corporation Of The
CITY OF KITCHENER
Development Services
Engineering Division

NOTES:

TREE PROTECTION FENCING AND SIGNAGE DETAIL - TPF-1

DESIGNED BY:	APPROVED BY:	DRAWN BY:	SCALE:	DATE: (MM.DD.YYYY)	SHEET No.	DWG. No.
....	....	S.E.O.	AS NOTED	3.31.2026	- - of - -	TPF-1



B TREE PRESERVATION DETAIL & NOTES (STREETS AND RIGHT-OF-WAYS)
N.T.S.

TREE PROTECTION DETAIL NOTES

Dripline – the area that extends from the trunk of the tree to the outer limits of the crown of the tree.

Tree Protection Zone (TPZ) – the area around the trunk where roots essential for tree health and stability are located. The TPZ is determined based on the measurements indicated in Table 1. TPZs are to be measured from the outside edge of the tree base towards the dripline and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout construction.

Plantable Space – areas designated for tree planting that meet spacing, soil volume, and infrastructure clearance requirements as deemed by the City.

Diameter at breast height (DBH) – the diameter of a trunk of a tree from the outside bark at a height of 1.37m above ground. Where there are multiple trunks, means the square root of the sum of each stem diameter squared measured from the outside bark at a height of 1.37m.

Table 1 - Tree Protection Zones

Trunk DBH Range (cm)	Street & Right-of-way Trees: Minimum Setback Radius (m)	Park & Open Area Trees: Minimum Setback Radius (m)
		Whichever of the two is greater:
<20	1.8	Dripline or 1.8
20 to 30	2.4	Dripline or 2.4
31 to 40	3.0	Dripline or 3.0
41 to 50	3.6	Dripline or 3.6
51 to 60	4.2	Dripline or 4.2
61 to 70	4.8	Dripline or 4.8
71 to 80	5.4	Dripline or 5.4
81 to 100	6.0	Dripline or 6.0
>100	6cm of protection for each 1cm of DBH	Dripline or 6cm of protection for each 1cm of DBH

The Public Tree Bylaw (Chapter 690) outlines the prohibitions and requirements for protecting City–owned trees, plantable spaces, and tree protection zones (TPZs), as defined in City standards. The **City of Kitchener Standard Specifications (CKSS 151)** further detail construction requirements near trees, which may be adjusted in consultation with and subject to approval by Urban Forestry (UF). Contractors will be held liable for any unauthorized injury to or removal of a City tree or its protection measures. Because damage may not become apparent until years after construction, it is critical that all preservation methods follow the guidelines below, along with generally accepted arboricultural and construction best practices.

1. Construction activities, grade alterations, and storage of equipment and materials are prohibited within the TPZ, except where approved by UF. All damage to trees shall be reported to UF.
2. All arborist work such as pruning of crown branches or roots within the TPZ shall be conducted by or under the supervision of UF or an ISA Certified Arborist.
3. All roots larger than 2.5cm that require removal are to be cut cleanly with bypass pruners or a pruning saw. Roots over 10cm are not to be cut without UF approval. All exposed roots will be covered as soon as possible to prevent root desiccation.
4. Special work practices for sidewalk and driveway works including hand work, minimal excavation, and hand forming may be required within a TPZ. Changes to the sidewalk design and elevation may be required to protect roots.
5. Restorative works to the boulevard will be limited to areas outside the TPZ.
6. Tree Protection Fencing (TPF) must be erected prior to any grading activity, site alteration, and/or construction activity that may injure a tree on the site and must remain in place throughout the duration of the project. TPF shall encompass the TPZ and should extend to the limits of work, where feasible. TPF is not to be removed, relocated, or otherwise altered without the approval of UF.
7. Soil compaction protection (horizontal hoarding) must be installed over the area of potential impact when temporary encroachment is permitted to facilitate work within a TPZ, as approved by UF. Refer to TPF-1.
8. Within boulevards, TPF should protect the full extent of plantable space.
9. UF will provide 4.3m (14') clearance over residential streets, 2.4m (8') over sidewalks and 2.4m (8') over driveways. The contractor is expected to work within these height limits.
10. Prior to tree removal or vegetation clearing, the Contractor must confirm that no migratory birds are making use of the site during nesting season (generally April 1 to August 31) to ensure conformance with the Migratory Bird Convention Act.

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The Corporation Of The
CITY OF KITCHENER
Development Services
Engineering Division

NOTES:

TREE PRESERVATION DETAIL & NOTES
STREETS AND RIGHT-OF-WAYS - TPD-2

DESIGNED BY:	APPROVED BY:	DRAWN BY:	SCALE:	DATE: (MM.DD.YYYY)	SHEET No.	DWG. No.
....	....	S.E.O.	AS NOTED	4.11.2025	- - of - -	TPD-2

REMOVALS

TREEID	CIVIC#	STREET	LOCATION	SPECIES	DBH (cm)	PRESERVATION
10077750.000	14.000	Johnston St	Other Unmaintained location	Siberian Elm	28.000	Remove
183219.000	18.000	Johnston St	Boulevard	Silver Maple	58.000	Remove
153830.000	18.000	Johnston St	Boulevard	Silver Maple	56.000	Remove
131879.000	34.000	Johnston St	Lawn	Juniper	31.000	Remove
157286.000	46.000	Johnston St	Boulevard	Norway Maple	36.000	Remove
136835.000	54.000	Johnston St	Boulevard	Manitoba Maple	39.000	Remove
142840	492	Wellington St N	Lawn	Norway Spruce	56	Remove
10077892	492	Wellington St N	Other Unmaintained location	Siberian Elm	27	Remove
182814	528	Wellington St N	Other Maintained location	Norway Maple	42	Remove
126040	528	Wellington St N	Other Maintained location	Northern Red Oak	39	Remove
153529	528	Wellington St N	Other Maintained location	American Basswood	61	Remove
157284	528	Wellington St N	Other Maintained location	Bur Oak	76	Remove
142327	528	Wellington St N	Other Maintained location	Black Walnut	75	Remove
10077733	601	Wellington St N	Other Unmaintained location	Siberian Elm	30	Remove
N/a	601	Wellington St N	Other Unmaintained location	Siberian Elm	26.000	Remove
N/a	unk.	Wellington St N	Other Unmaintained location	Norway Maple	43.000	Remove
N/a	unk.	Wellington St N	Other Unmaintained location	Siberian Elm	27.000	Remove
N/a	unk.	Wellington St N	Other Unmaintained location	Siberian Elm	27.000	Remove

TREE PRESERVATION TABLE

TREEID	CIVIC#	STREET	LOCATION	SPECIES	DBH (cm)	TREE HEIGHT (m)	AVERAGE TREE CROWN DIAMETER (m)	PRESERVATION	CRITICAL ROOT ZONE RADIUS (m)
10077749.000	14.000	Johnston St	Lawn	Ivory Silk Lilac	12.000	3.000	2.000	Preserve	1.8
147321.000	30.000	Johnston St	Boulevard	Silver Maple	76.000	15.000	15.000	Preserve	5.4
157512.000	38.000	Johnston St	Boulevard	Silver Maple	92.000	17.500	15.500	Preserve	6.0
165361	0.000	Wellington St	Other Maintained Location	Ohio Buckeye	23.000	5.500	5.500	Preserve	2.4
131881	0.000	Wellington St	Other Maintained Location	Horsechestnut	68.000	9.000	11.500	Preserve	4.2
183221	0.000	Wellington St	Other Maintained Location	Crabapple	21.000	4.500	5.500	Preserve	2.4
183220	0.000	Wellington St	Other Maintained Location	Crabapple	24.000	5.500	5.500	Preserve	2.4
133894	0.000	Wellington St	Other Maintained Location	Balsam Fir	25.000	9.500	5.000	Preserve	2.4

PLANTINGS

CIVIC#	STREET	SPECIES	COMMON NAME	OWNERSHIP	LOCATION	CALIPER	STOCK TYPE
14	Johnston St	*Crataegus laevigata 'Crimson Cloud'*	Crimson Cloud Hawthorn	City	Boulevard	50mm	Wire basket
18	Johnston St	*Crataegus laevigata 'Crimson Cloud'*	Crimson Cloud Hawthorn	City	Boulevard	50mm	Wire basket
22	Johnston St	*Cercis canadensis*	Eastern Redbud	City	Boulevard	50mm	Wire basket
26	Johnston St	*Crataegus laevigata 'Crimson Cloud'*	Crimson Cloud Hawthorn	City	Boulevard	50mm	Wire basket
42	Johnston St	*Cercis canadensis*	Eastern Redbud	City	Boulevard	50mm	Wire basket
46	Johnston St	*Crataegus laevigata 'Crimson Cloud'*	Crimson Cloud Hawthorn	City	Boulevard	50mm	Wire basket
50.000	Johnston St	*Cercis canadensis*	Eastern Redbud	City	Boulevard	50mm	Wire basket
54.000	Johnston St	*Crataegus laevigata 'Crimson Cloud'*	Crimson Cloud Hawthorn	City	Boulevard	50mm	Wire basket
58.000	Johnston St	*Cercis canadensis*	Eastern Redbud	City	Boulevard	50mm	Wire basket

constructionNORTH | trueNORTH

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TOPSOIL AND GRASS WITHIN TREE PROTECTION ZONES TO REMAIN

SURVEY

CONDITION SURVEY BY CITY OF KITCHENER JAN. 2009
FIELDBOOK # 00-000

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The Corporation Of The
CITY OF KITCHENER

Development Services
Engineering Division

WALTERFEDY

TREE MANAGEMENT PLAN
DETAILS

DESIGNED BY:	APPROVED BY:	DRAWN BY:
DNM	MC	DNM
		CHECKED BY: PR/MC
		SCALE: HOR. 1:250
		DATE: (MM.DD.YY) 01.23.26
CONSULTANT DWG. No. XX	SHEET No. 5 of 5	DWG. No. XXXX

Date: Jan. 23, 2026 - 10:13 am Plotted by: dmorris Filename: C:\Users\dmorris\Appdata\Local\Temp\AcPublish_15604\2023-0855-HLTMP P1-1.dwg

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