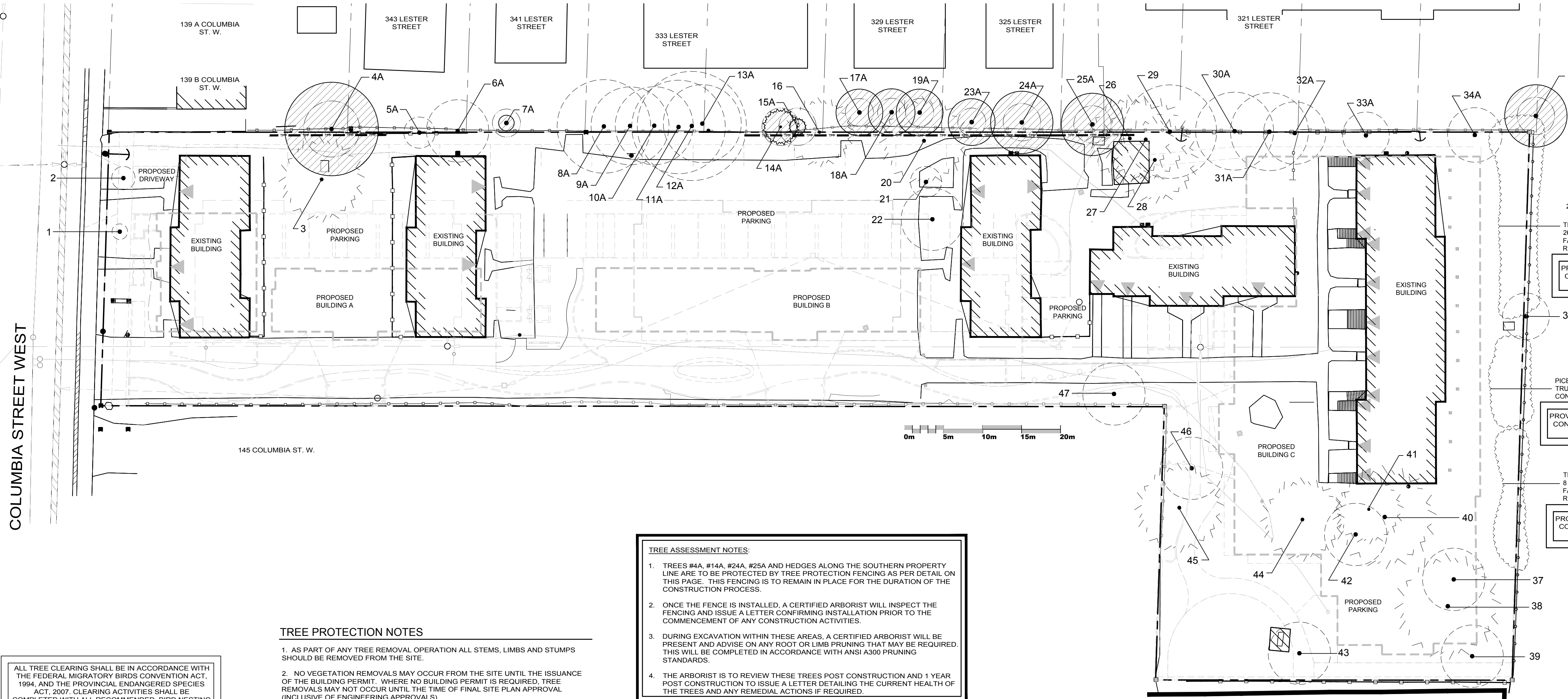


COLUMBIA STREET WEST



ALL TREE CLEARING SHALL BE IN ACCORDANCE WITH THE FEDERAL MIGRATORY BIRDS CONVENTION ACT, 1994, AND THE PROVINCIAL ENDANGERED SPECIES ACT, 2007. CLEARING ACTIVITIES SHALL BE COMPLETED WITH ALL RECOMMENDED BIRD NESTING WINDOWS AND THE PROTECTION OF SPECIES AT RISK HABITAT

TREE INVENTORY NOTES:
SITE VISIT DATE: OCTOBER 19, 2021
TREE INVENTORY COMPLETED BY ISA CERTIFIED ARBORIST CATHERINE HODGINS #ON-2258A
TREE LOCATIONS AND DRIPLINES BASED ON EXISTING CONDITIONS PLAN PROVIDED BY MTE AND HILL DESIGN STUDIO FIELD SURVEY ON OCTOBER 19, 2021.
#A DENOTES APPROXIMATE LOCATION OF TREE BASED ON HILL DESIGN STUDIO FIELD SURVEY AND REGION OF WATERLOO AERIAL PHOTOGRAPHY.

LEGEND	
	EXISTING TREES TO REMAIN
	EXISTING TREES TO BE REMOVED
	PROPOSED TREE PROTECTION FENCING
	MINIMUM TREE PROTECTION ZONE FOR TREES THAT CANNOT MEET STANDARD 1.0m OUTSIDE DRIPLINE TPZ

NOTES:
TREES #5A, #6A, #9A, #13A, #16, #29, #32A AND #36A ARE TO BE REMOVED ONLY WITH SIGNED PERMISSION FROM ADJACENT PROPERTY OWNERS.
SIGNED LETTER OF UNDERSTANDING TO INJURE TREES #4A, #14A, #24A, #25A AND HEDGES ALONG THE SOUTHERN PROPERTY LINE.
PRUNE LIMBS OF TREES #4A, #24A AND #25A THAT ARE OVER HANGING PARKING AREA.
ANY ROOTS IMPACTED DURING GRADING/CONSTRUCTION ACTIVITIES ARE TO BE CUT CLEANLY AND BURIED IMMEDIATELY.
ALL VEGETATION 10cm D.B.H. OR GREATER, ON SITE AND WITHIN 6m OF PROPERTY, HAVE BEEN IDENTIFIED.
Kate Signature.jpg
ISA CERTIFIED ARBORIST #ON-2258A

TREE ASSESSMENT NOTES:

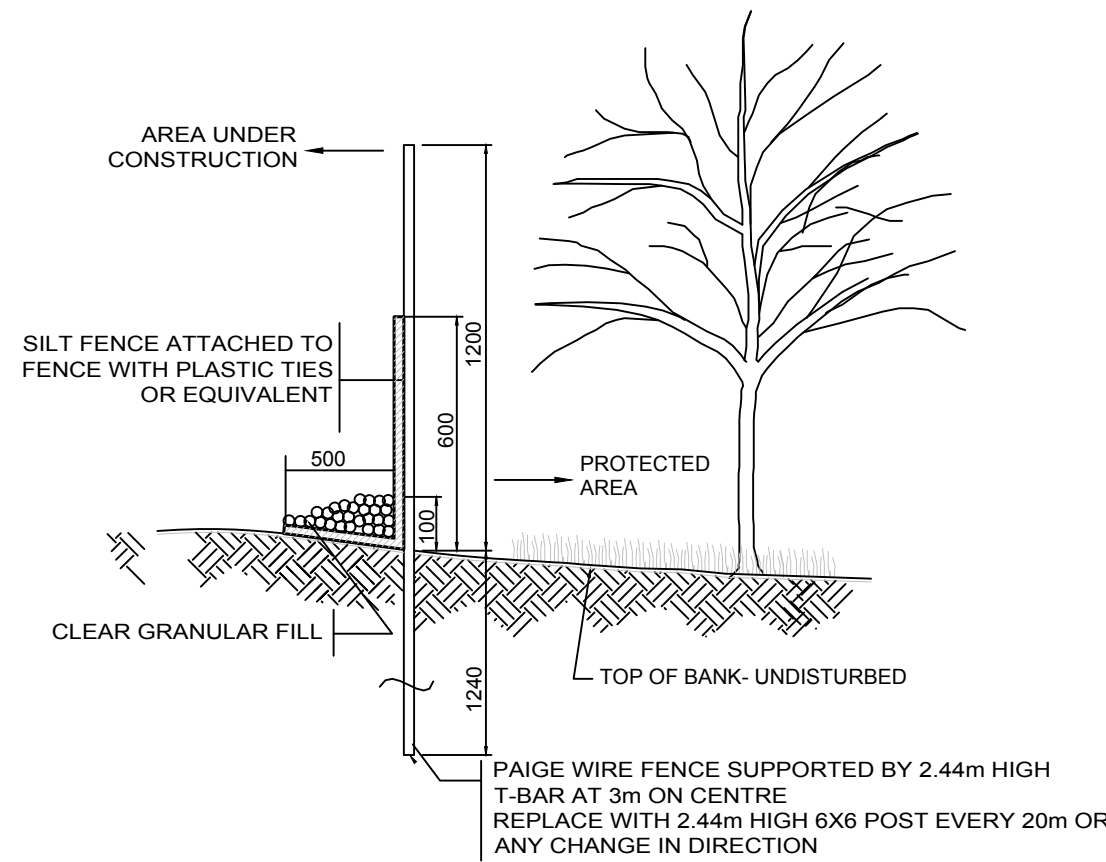
- TREES #4A, #14A, #24A, #25A AND HEDGES ALONG THE SOUTHERN PROPERTY LINE ARE TO BE PROTECTED BY TREE PROTECTION FENCING AS PER DETAIL ON THIS PAGE. THIS FENCING IS TO REMAIN IN PLACE FOR THE DURATION OF THE CONSTRUCTION PROCESS.
- ONCE THE FENCE IS INSTALLED, A CERTIFIED ARBORIST WILL INSPECT THE FENCING AND ISSUE A LETTER CONFIRMING INSTALLATION PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- DURING EXCAVATION WITHIN THESE AREAS, A CERTIFIED ARBORIST WILL BE PRESENT AND ADVISE ON ANY ROOT OR LIMB PRUNING THAT MAY BE REQUIRED. THIS WILL BE COMPLETED IN ACCORDANCE WITH ANSI A300 PRUNING STANDARDS.
- THE ARBORIST IS TO REVIEW THESE TREES POST CONSTRUCTION AND 1 YEAR POST CONSTRUCTION TO ISSUE A LETTER DETAILING THE CURRENT HEALTH OF THE TREES AND ANY REMEDIAL ACTIONS IF REQUIRED.

TREE PROTECTION NOTES

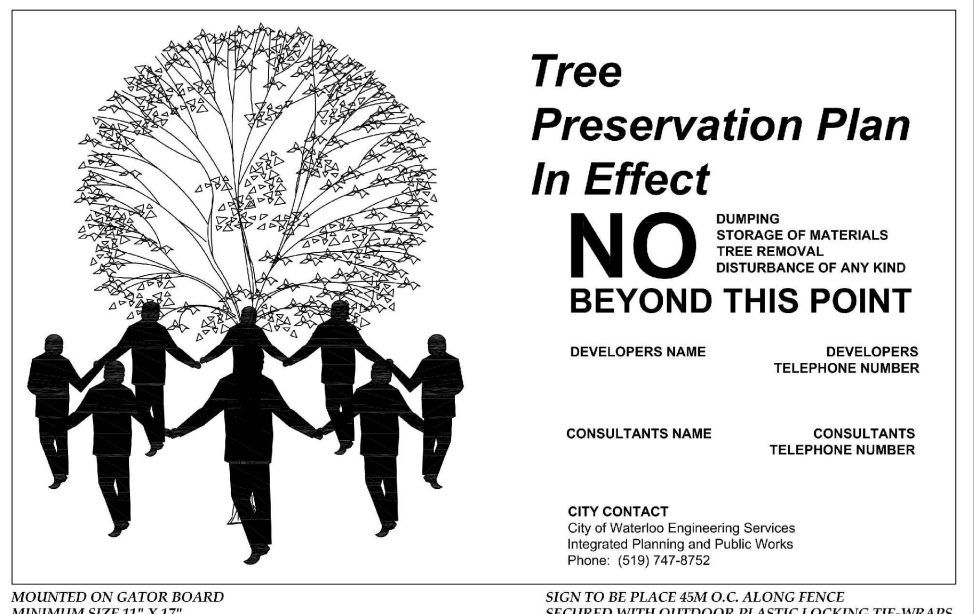
- AS PART OF ANY TREE REMOVAL OPERATION ALL STEMS, LIMBS AND STUMPS SHOULD BE REMOVED FROM THE SITE.
- NO VEGETATION REMOVALS MAY OCCUR FROM THE SITE UNTIL THE ISSUANCE OF THE BUILDING PERMIT. WHERE NO BUILDING PERMIT IS REQUIRED, TREE REMOVALS MAY NOT OCCUR UNTIL THE TIME OF FINAL SITE PLAN APPROVAL (INCLUSIVE OF ENGINEERING APPROVALS).
- TREE PROTECTION FENCING WILL BE INSTALLED AS ILLUSTRATED. THIS PROTECTION FENCING WILL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.
- ANY ROOTS DISTURBED DURING CONSTRUCTION SHOULD BE CUT CLEANLY AND BURIED IMMEDIATELY.
- NO HEAVY EQUIPMENT OR STOCKING OF MATERIAL SHALL OCCUR WITHIN THE DRIPLINES OF ANY TREES THAT ARE TO BE PRESERVED.
- TREE PROTECTION FENCING (TPF) SHALL BE CERTIFIED BY THE CONSULTANT TO BE IN COMPLIANCE WITH THE APPROVED VEGETATION MANAGEMENT PLAN. UPON RECEIPT OF TPF CERTIFICATION AND A SATISFACTORY SITE INSPECTION BY AN ENGINEERING SERVICES LANDSCAPE REPRESENTATIVE, FINAL APPROVAL SHALL BE GRANTED BY CITY STAFF PRIOR TO THE COMMENCEMENT OF ANY WORK OR VEGETATION REMOVALS.
- ANY WORK WITHIN THE TPZ MUST BE APPROVED BY LANDSCAPE ARCHITECT AND THE CITY OF WATERLOO. IF CONSTRUCTION OR ANY WORK OCCURS WITHIN THE TREE PRESERVATION ZONE, INSIDE THE LIMITS OF THE TREE PROTECTION FENCE, IT IS NECESSARY TO ONLY USE HAND TOOLS. NO MACHINERY WILL BE PERMITTED IN THIS ZONE.
- ANY ROOT AND BRANCH PRUNING OF EXISTING VEGETATION TO BE PRESERVED ON SITE SHALL BE IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS.

- THE TREE PRESERVATION FENCE WILL REMAIN INSTALLED FOR THE DURATION OF CONSTRUCTION.
- ANY TREES TO BE PROTECTED THAT ARE IMPACTED BY DEVELOPMENT WILL BE REPLACED WITH THE SAME SPECIES OR AN APPROVED ALTERNATE, TO THE SATISFACTION OF THE CITY OF WATERLOO AT A MINIMUM 70MM CALIPER SIZE FOR DECIDUOUS TREES AND A MINIMUM 250CM HEIGHT FOR CONIFEROUS TREES.
- NO VEGETATION REMOVALS MAY OCCUR FROM THE SITE UNTIL TIME OF FINAL SITE PLAN APPROVAL (INCLUSIVE OF FINAL ENGINEERING ACCEPTANCE).
- ALL EXISTING VEGETATION LOCATED ON SITE, AND ON ADJACENT PROPERTIES WITHIN 6M OF THE PROPERTY LINE (BOTH PRIVATE AND PUBLIC) HAVE BEEN IDENTIFIED ON THE VMP. LOCATION OF ALL TREES AND PROPERTY BOUNDARIES HAVE BEEN ACCURATELY LOCATED/REPRESENTED ON THIS PLAN. TREE OWNERSHIP HAS BEEN BASED ON ACCURATE TREE LOCATIONS, FIELD REVIEW AND PROPERTY BOUNDARY INFORMATION.

- EVERY EFFORT TO PRESERVE AND PROTECT VEGETATION LOCATED ON ADJACENT PROPERTIES WILL BE UNDERTAKEN DURING CONSTRUCTION/SITE WORKS.
- APPROVALS AS GRANTED BY THE CITY OF WATERLOO THROUGH THE SITE PLAN APPROVAL PROCESS DO NOT SUPERSEDE ANY CIVIL OR COMMON LAW PROPERTY RIGHTS. IT IS THE APPLICANT/OWNER'S RESPONSIBILITY TO:
 - DETERMINE OWNERSHIP AND COORDINATE AND OBTAIN APPROVALS OF:
 - ANY REMOVAL OF A SHARED BOUNDARY TREE OR TREE LOCATED ON ADJACENT PROPERTY;
 - ANY INJURY TO A SHARED BOUNDARY TREE OR TREE LOCATED ON ADJACENT PROPERTY;
 - ENCROACHMENT AND ACCESS REQUIREMENTS;
 - RESOLVE ANY PROPERTY DISPUTES;
 - AND ENSURE COMPLIANCE WITH ALL APPLICABLE LAWS.
- WHERE IMPACT/INJURY TO PRESERVED SHARED BOUNDARY TREES OR TREES ON ADJACENT PROPERTIES HAS BEEN IDENTIFIED THE APPLICANT AGREES TO PROVIDE AN ASSESSMENT OF THE IMPACT TO THE LONG-TERM HEALTH OF EACH TREE, TO BE PREPARED BY A QUALIFIED EXPERT (I.E. CERTIFIED ARBORIST).
 - THE CITY RECOMMENDS THAT THE OWNER OBTAIN WRITTEN OWNER ACKNOWLEDGEMENT AND APPROVAL OF THE REQUIRED WORK AND POTENTIAL IMPACTS.
- THE CITY SHALL NOT BE HELD LIABLE FOR ANY FUTURE IMPACTS TO THE HEALTH AND/OR STRUCTURAL INTEGRITY OF TREES LOCATED ON ADJACENT PROPERTIES AS A RESULT OF THE APPROVED DEVELOPMENT.
- ALL TREES LOCATED ON SHARED PROPERTY BOUNDARIES OR ON ADJACENT PROPERTIES THAT ARE PROPOSED TO BE REMOVED (AS IDENTIFIED ON THIS PLAN OR IN THE ACCOMPANYING ARBORIST REPORT) WILL HAVE OWNER APPROVAL DOCUMENTED THROUGH A SIGNED LETTER OF CONSENT FOR EACH PROPERTY TO BE PROVIDED PRIOR TO SITE PLAN APPROVAL.

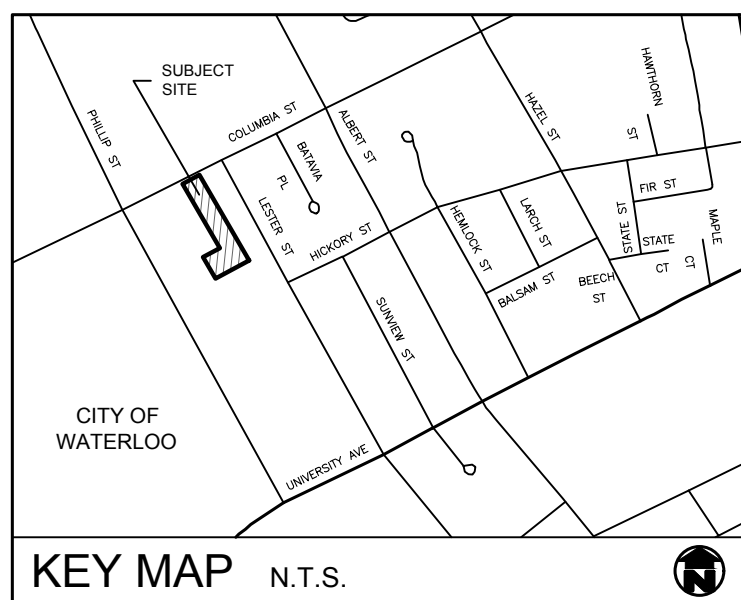


1 TREE PROTECTION FENCING DETAIL
NTS



2 CITY OF WATERLOO STANDARD TREE PROTECTION SIGNAGE DETAIL
NTS

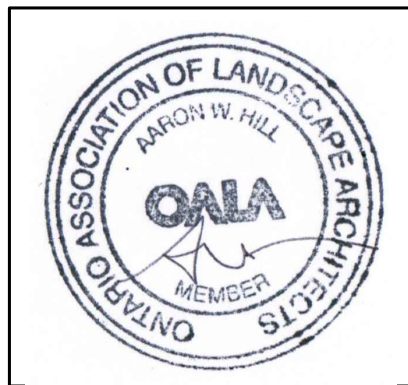
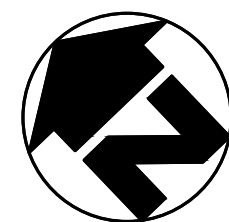
ID #	Tree Species (Latin)	Tree Species (Common)	D.B.H (cm)	DripLine (m radius)	TPZ (m)	Condition	Status	Comments
1	Acer freemanii	Freeman Maple	8	1	n/a	Good	Remove	In proposed driveway
2	Acer freemanii	Freeman Maple	11	1.5	n/a	Good	Remove	In proposed sidewalk
3	Picea pungens	Blue Spruce	>50	5	n/a	Good	Remove	In proposed parking
4A	Acer platanoides	Norway Maple	36/22	6	3.6	Fair	Preserve	On adjacent property
5A	Fraxinus sp.	Ash Species	13	2	n/a	Poor	Remove	Presumed boundary tree
6A	Prunus serotina	Black Cherry	24	4	n/a	Good	Remove	Presumed boundary tree, between fences, in hydro
7A	Quercus robur 'Fastigiata'	Columnar Oak	<10	1	1.8	Good	Preserve	On adjacent property
8A	Ulmus pumila	Siberian Elm	>50	6	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
9A	Ulmus pumila	Siberian Elm	30	5	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
10A	Ulmus pumila	Siberian Elm	25	5	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
11A	Ulmus pumila	Siberian Elm	50	6	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
12A	Ulmus pumila	Siberian Elm	25	7	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
13A	Ulmus pumila	Siberian Elm	>50	5	n/a	Fair	Remove	On adjacent property, in hydro, overhanging proposed parking
14A	Picea glauca	White Spruce	20	1.5	2.4	Fair	Preserve	On adjacent property, in hydro
15A	Picea glauca	White Spruce	20	1	2.4	Dead	Preserve	On adjacent property
16	Picea glauca	White Spruce	34	4	n/a	Fair	Remove	Boundary tree, 30% dieback
17A	Celtis occidentalis	Hackberry	10	3	1.8	Poor	Preserve	On adjacent property
18A	Celtis occidentalis	Hackberry	10	3	1.8	Good	Preserve	On adjacent property
19A	Celtis occidentalis	Hackberry	10	3	1.8	Poor	Preserve	On adjacent property
20	Picea pungens	Blue Spruce	40/43	6	n/a	Good	Remove	Co-dominant stems with included bark
21	Malus sp.	Apple Species	12	2	n/a	Poor	Remove	Leaning toward building
22	Malus sp.	Apple Species	38	4	n/a	Poor	Remove	
23A	Acer saccharinum	Silver Maple	10	3	1.8	Good	Preserve	On adjacent property
24A	Acer saccharinum	Silver Maple	12	4	2.4	Good	Preserve	On adjacent property
25A	Acer saccharinum	Silver Maple	15	4	2.4	Good	Preserve	On adjacent property
26	Picea pungens	Blue Spruce	48	5	n/a	Good	Remove	
27	Picea pungens	Blue Spruce	35	5	n/a	Fair	Remove	Suppressed
28	Picea pungens	Blue Spruce	50/26	5	n/a	Good	Remove	
29	Robinia pseudoacacia	Black Locust	20/20/15/12/15/20	6	n/a	Good	Remove	Boundary tree, clump leaning into site
30A	Acer platanoides	Norway Maple	25	5	n/a	Good	Remove	Presumed boundary tree, in fence
31A	Acer platanoides	Norway Maple	15	5	n/a	Good	Remove	Presumed boundary tree, in fence
32A	Sorbus americana	Mountain Ash	<10-20	4	n/a	Fair	Remove	Presumed boundary trees, 10 Trunks
33A	Fraxinus sp.	Ash Species	14	3	n/a	Fair	Remove	
34A	Fraxinus sp.	Ash Species	18	3.5	n/a	Fair	Remove	
35A	Catalpa speciosa	Northern Catalpa	20	4	2.4	Good	Preserve	On adjacent property
36A	Acer platanoides	Norway Maple	20	3	n/a	Good	Remove	Presumed boundary tree, in metal fence
37	Sorbus americana	Mountain Ash	20/20	4	n/a	Fair	Remove	
38	Picea glauca	White Spruce	>50	6	n/a	Good	Remove	
39	Fraxinus sp.	Ash Species	35	4	n/a	Dead	Remove	
40	Picea pungens	Blue Spruce	>50	4	n/a	Fair	Remove	
41	Picea pungens	Blue Spruce	31	6	n/a	Fair	Remove	
42	Sorbus americana	Mountain Ash	36	4	n/a	Poor	Remove	
43	Fraxinus sp.	Ash Species	35	4	n/a	Dead	Remove	
44	Picea pungens	Blue Spruce	49	5	n/a	Fair	Remove	
45	Picea pungens	Blue Spruce	>50	5	n/a	Good	Remove	
46	Fraxinus sp.	Ash Species	35	4	n/a	Dead	Remove	
47	Fraxinus sp.	Ash Species	35	4	n/a	Dead	Remove	



GENERAL NOTES

- ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- SITE PLAN INFORMATION AS PER PGDS.
- ENGINEERING AS PER K. SMART ASSOCIATES LTD., AND IS PROVIDED FOR INFORMATION ONLY.
- SURVEY INFORMATION PROVIDED BY GUENTHER RUEB.

143 COLUMBIA INC.



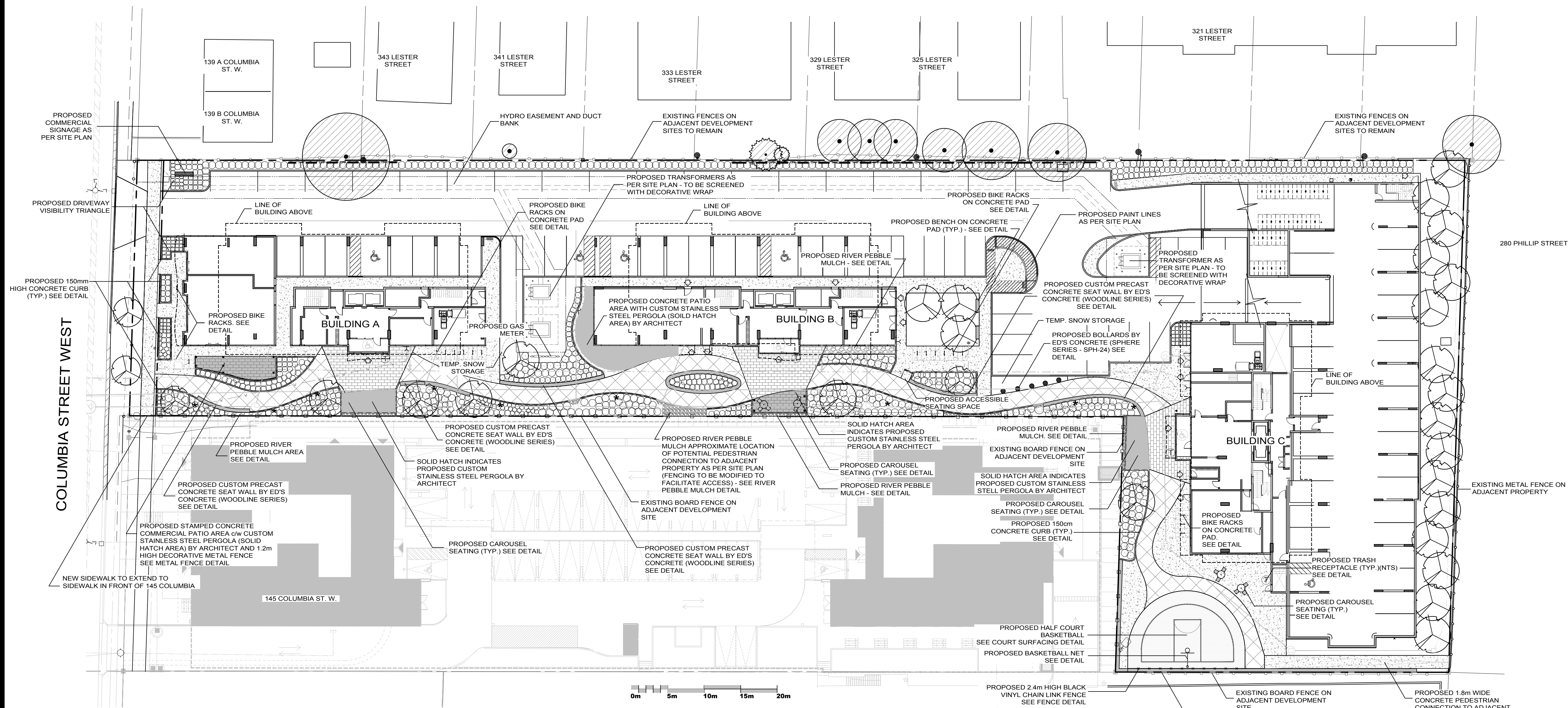
no.	date	description	by
1.	Nov.3.21	Issued for approval	CMH
2.	Apr.4.23	Issued for approval	CMH
3.	Aug.10.23	Issued for approval	DPV
4.	Feb.9.24	Issued for approval	CMH

PROPOSED DEVELOPMENT 143 Columbia St. W City of Waterloo

Vegetation Management Plan



PROJECT NO.: 2021-61	DRAWN BY: CMH
SCALE: 1:300	DESIGNED BY: CMH/AWH
SHEET:	APPROVED BY: AWH
L1	PLOT DATE: FEB. 9, 2024

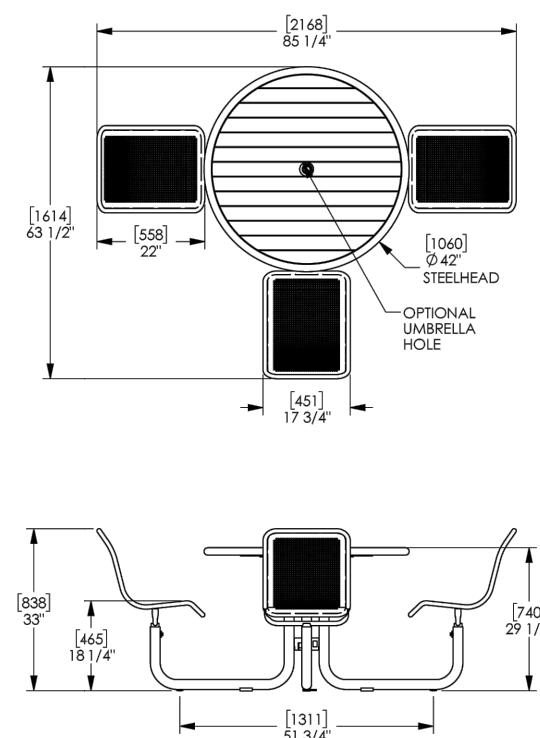


LEGEND	
	PROPOSED DECIDUOUS TREE
	PROPOSED SHRUB
	PROPOSED PERENNIAL
	SITE LIGHTING
	* - BOLLARD
	PROPOSED CONCRETE AREA
	PROPOSED STAMPED CONCRETE ENTRY PLAZA RUNNING BOND PATTERN c/w TRASH RECEPTACLE - (T)
	PROPOSED DECORATIVE CONCRETE WALKWAY SAW-CUT PATTERN TO BE 1500mm SQUARES AND BORDERED WITH 150mm ROUGH BRUSH BANDING

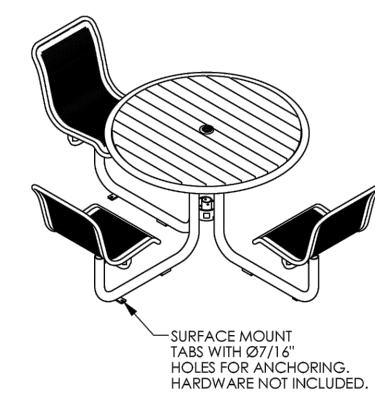
CONTINUOUSLY PROVIDE MINIMUM DEPTHS OF 900mm FOR TREES, 600mm FOR SHRUBS, AND 150mm FOR SOD AREAS. 30cu.m. OF SOIL FOR LARGE CANOPY TREES, AND 15cu.m OF SOIL PER SMALL CANOPY TREE IS TO BE CONTINUOUSLY PROVIDED.

CAROUSEL SEATING BY LANDSCAPE FORMS
(OR APPROVED EQUAL)
T 1-800-430-6209
WWW.LANDSCAPEFORMS.COM

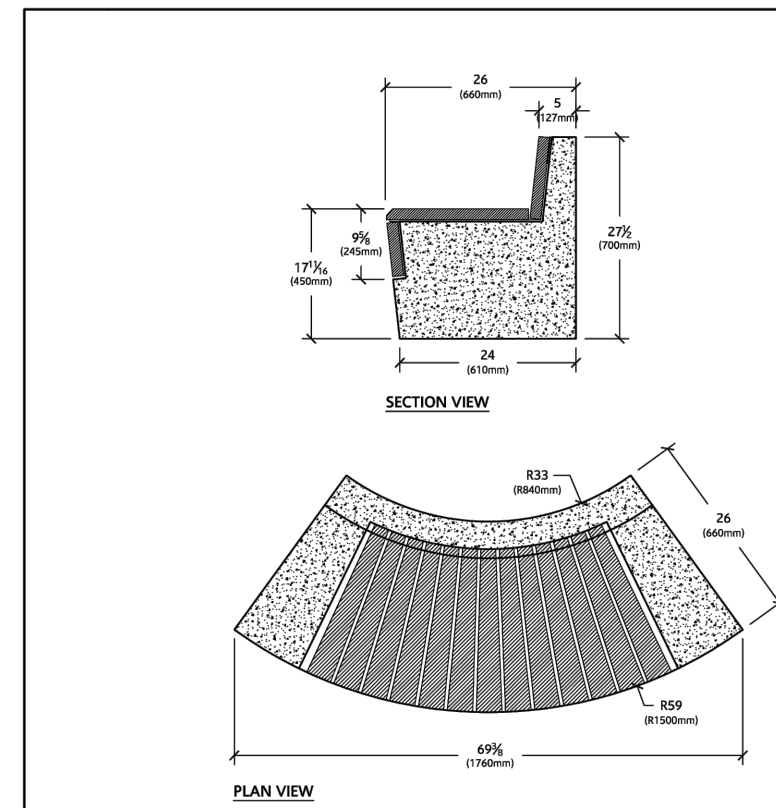
SPECIFICATIONS:
MODEL: GRD134
FINISH: GRID BACKED SEAT WITH STEELHEAD 42" DIA
TABLE WITH WOOD INSERT
INSTALLATION: AS PER MANUFACTURERS INSTRUCTIONS



landscapeforms Drawing: CRD134
Dimensions are in inches (mm)



1 CAROUSEL SEATING DETAIL
NTS

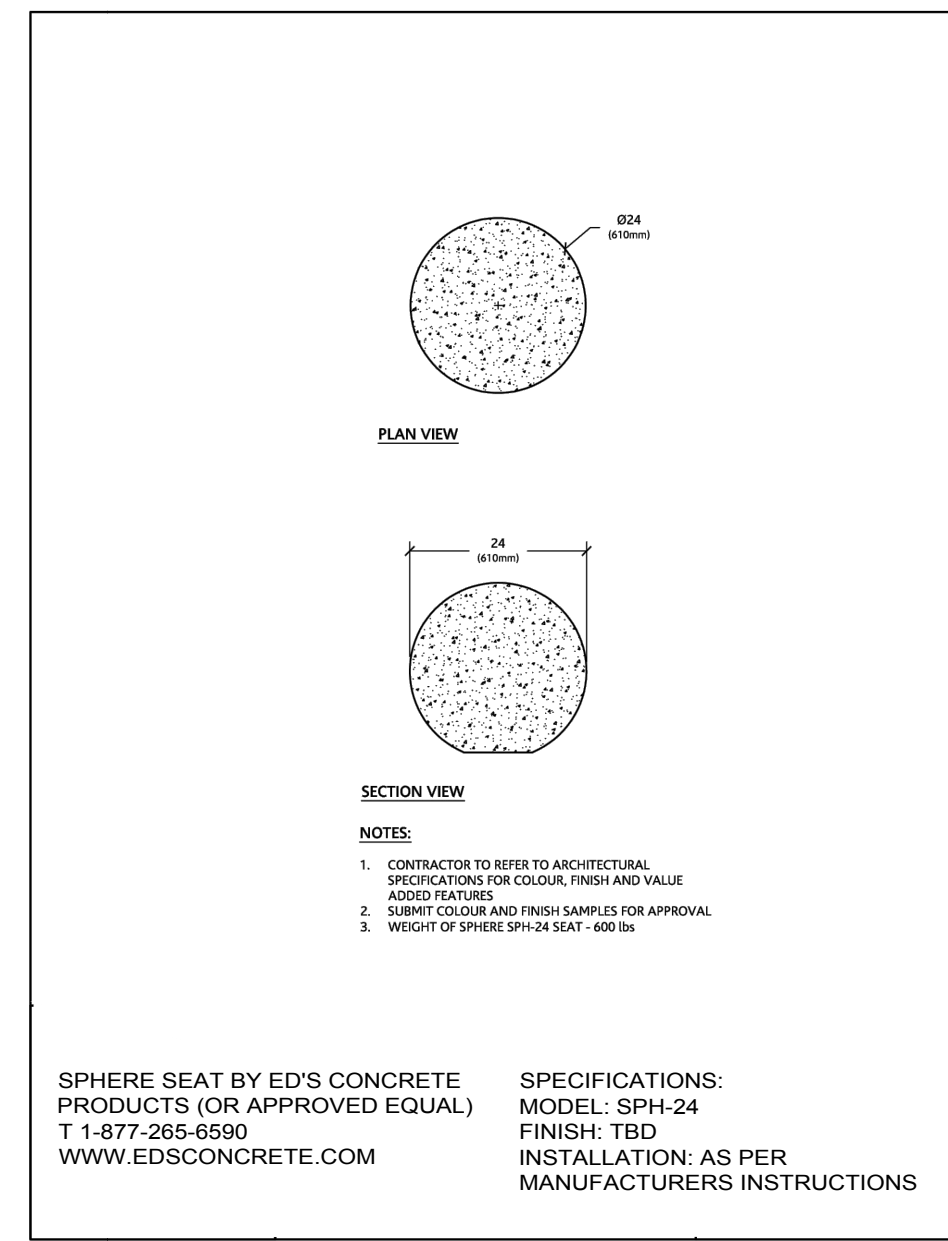


NOTES:
1. CONTRACTOR TO REFER TO ARCHITECTURAL SPECIFICATIONS FOR COLOUR FINISH AND
VALUE AND TEXTURES.
2. SUBMIT COLOUR AND FINISH SAMPLES FOR APPROVAL.
3. WEIGHT OF WOODLINE WL-52 - 2880 lbs.

WOODLINE SEAT BY ED'S CONCRETE
PRODUCTS (OR APPROVED EQUAL)
T 1-877-265-6590
WWW.EDSCONCRETE.COM

SPECIFICATIONS:
MODEL: CUSTOM
FINISH: TBD
OPTIONS: SKATE DETERRENTS
INSTALLATION: AS PER
MANUFACTURERS INSTRUCTIONS

2 PRECAST SEAT WALL DETAIL
NTS

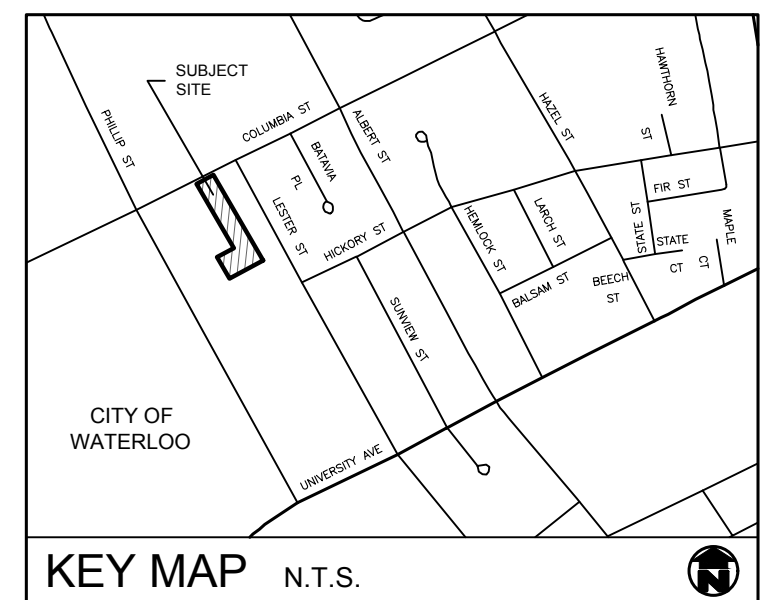


NOTES:
1. CONTRACTOR TO REFER TO ARCHITECTURAL
SPECIFICATIONS FOR COLOUR FINISH AND VALUE
AND TEXTURES.
2. SUBMIT COLOUR AND FINISH SAMPLES FOR APPROVAL.
3. WEIGHT OF SPHERE SPH-24 - 690 lbs.

SPHERE SEAT BY ED'S CONCRETE
PRODUCTS (OR APPROVED EQUAL)
T 1-877-265-6590
WWW.EDSCONCRETE.COM

SPECIFICATIONS:
MODEL: SPH-24
FINISH: TBD
INSTALLATION: AS PER
MANUFACTURERS INSTRUCTIONS

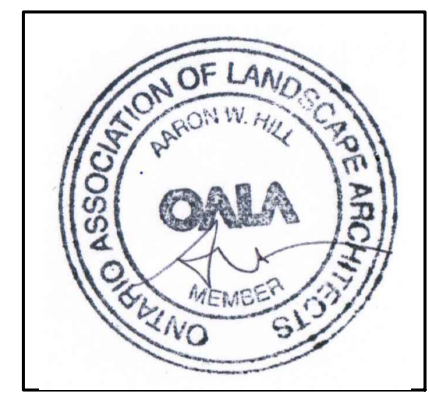
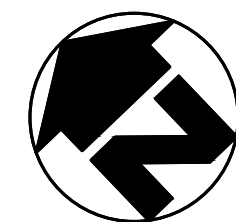
3 PRECAST BOLLARD DETAIL
NTS



GENERAL NOTES

- ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.
- ALL PLANT MATERIAL TO BE NO. 1 GRADE NURSERY GROWN IN ACCORDANCE WITH THE CANADIAN STANDARDS FOR NURSERY STOCK, 8TH EDITION, 2017, BY THE CANADIAN NURSERY TRADES ASSOCIATION.
- BACKFILL WILL CONSIST OF SOIL, NATIVE TO THE SITE OR GENERAL SOIL TYPE/CLASS NATIVE TO THE SITE. TOPSOIL TO BE TESTED FOR NUTRIENT VALUE, AND AMENDED FOR OPTIMAL GROWTH AS PER THE RECOMMENDATIONS OF THE SOIL TEST.
- CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNERS ACCEPTANCE OF PROJECT.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/SERVICES.
- ALL MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SPREAD MULCH TO A MINIMUM OF 100mm COMPACTED DEPTH ON ALL TREE PITS AND PLANTING BEDS.
- CHECK AND VERIFY ALL DIMENSIONS AND QUANTITIES PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT. QUANTITIES NOTED WITHIN THE PLAN SUPERCEDE THOSE IN THE PLANT LIST. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
- SOD AS MARKED WITH NURSERY SOD ON A MINIMUM OF 100mm OF CLEAN TOPSOIL. FINE GRADE AND SOD ALL BOULEVARD AREAS TO MUNICIPAL SPECIFICATIONS AND REPAIR DAMAGE TO ADJACENT PROPERTIES, AS REQUIRED.
- FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
- ALL SEEDED SLOPES 3:1 AND GREATER TO RECEIVE EROSION CONTROL MATTING. PIN SOD ON ALL SLOPES OF 3:1 OR GREATER.
- SUBMIT A WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIODS LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS.
- AT THE TIME OF FINAL INSPECTION ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION, PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.
- SITE PLAN INFORMATION AS PER PGDS.
- ENGINEERING AS PER K. SMART ASSOCIATES LTD., AND IS PROVIDED FOR INFORMATION ONLY.
- SITE LIGHTING BY OTHERS

143 COLUMBIA INC.



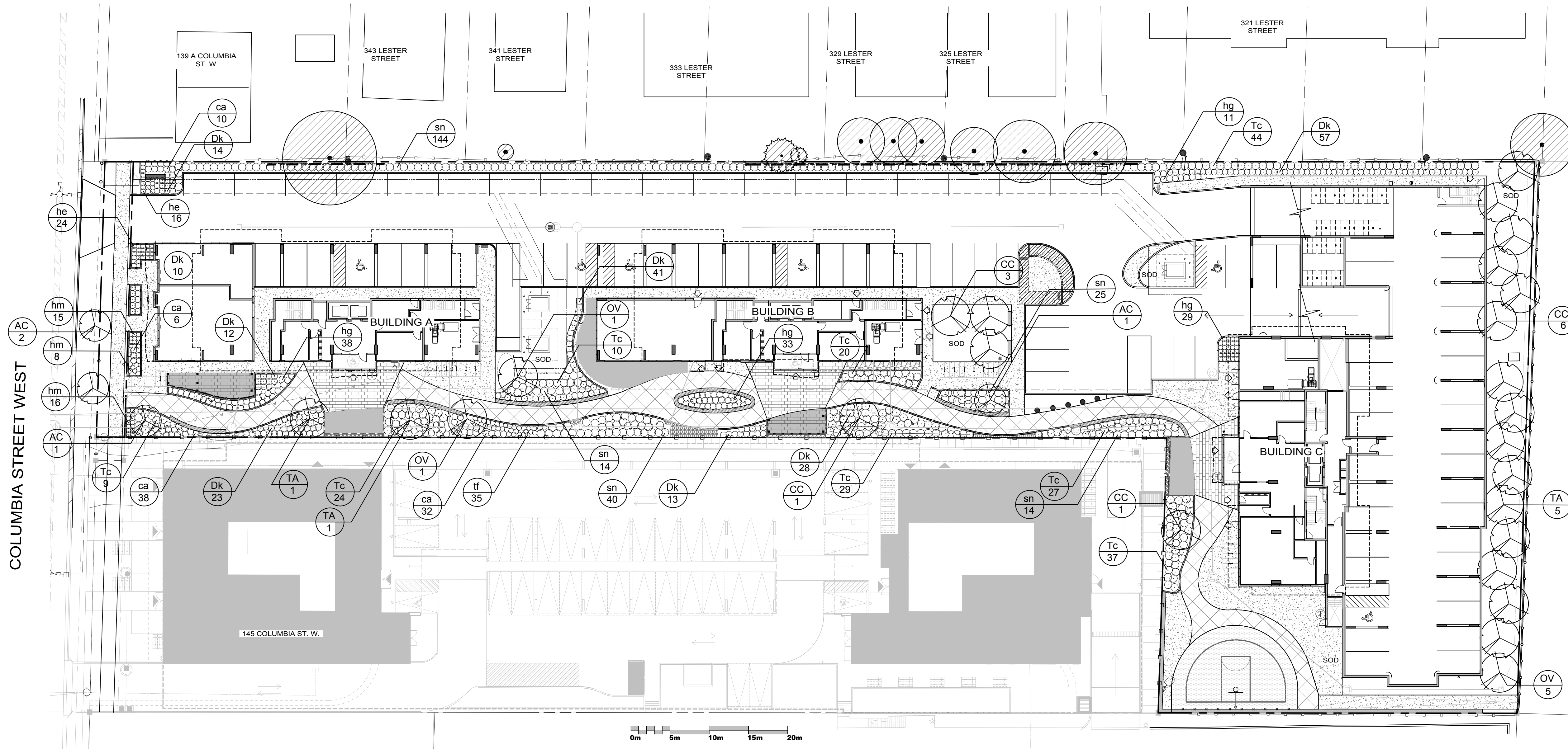
REVISIONS			
no.	date	description	by
1.	Nov. 3.21	Issued for approval	CMH
2.	Apr. 4.23	Issued for approval	CMH
3.	Aug. 10.23	Issued for approval	DPV
4.	Feb. 9.24	Issued for approval	CMH

PROPOSED DEVELOPMENT 143 Columbia St. W City of Waterloo

Landscape Plan



PROJECT NO.: 2021-61	DRAWN BY: CMH
SCALE: 1:300	DESIGNED BY: CMH/AWH
SHEET:	APPROVED BY: AWH
L2	PLOT DATE: FEB. 9, 2024



PLANT MATERIAL LIST

KEY	QUANT.	BOTANICAL NAME	COMMON NAME	SIZE	COND.
AC	4	Amelanchier canadensis	Serviceberry (tree form)	70mm cal.	W.B.
CC	11	Carpinus caroliniana	Blue Beech	70mm cal.	W.B.
OV	7	Ostrya virginiana	Ironwood	70mm cal.	W.B.
TA	7	Tilia americana 'Redmond'	Redmond Linden	70mm cal.	W.B.
Dk	198	Diervilla sessilifolia 'Cool Splash'	Cool Splash Bush Honeysuckle	60cm, 3 gal.	Pot
Tc	172	Taxus cuspidata 'Nana Aurescens'	Dwarf Golden Japanese Yew	60cm, 3 gal.	Pot
ca	89	Calamagrostis acutiflora 'Lightning Strike'	Lightning Strike Feather Reed Grass	1 gal.	Pot
he	40	Hemerocallis 'Stella d'Oro'		1 gal.	Pot
hg	111	Hosta 'Great Expectations'	Great Expectations Hosta	1 gal.	Pot
hm	39	Heuchera macrostiza 'Autumn Bride'	Autumn Bride Coral Bells	1 gal.	Pot
sn	254	Sorghastrum nutans 'Indian Steel'	Indian Steel Grass	1 gal.	Pot
tf	35	Tricyrtis formosana 'Autumn Glow'	Autumn Glow Toadlily	1 gal.	Pot

ANY PLANT MATERIAL SUBSTITUTIONS MUST BE TO THE SATISFACTION OF THE CITY OF WATERLOO

TREEGATOR:

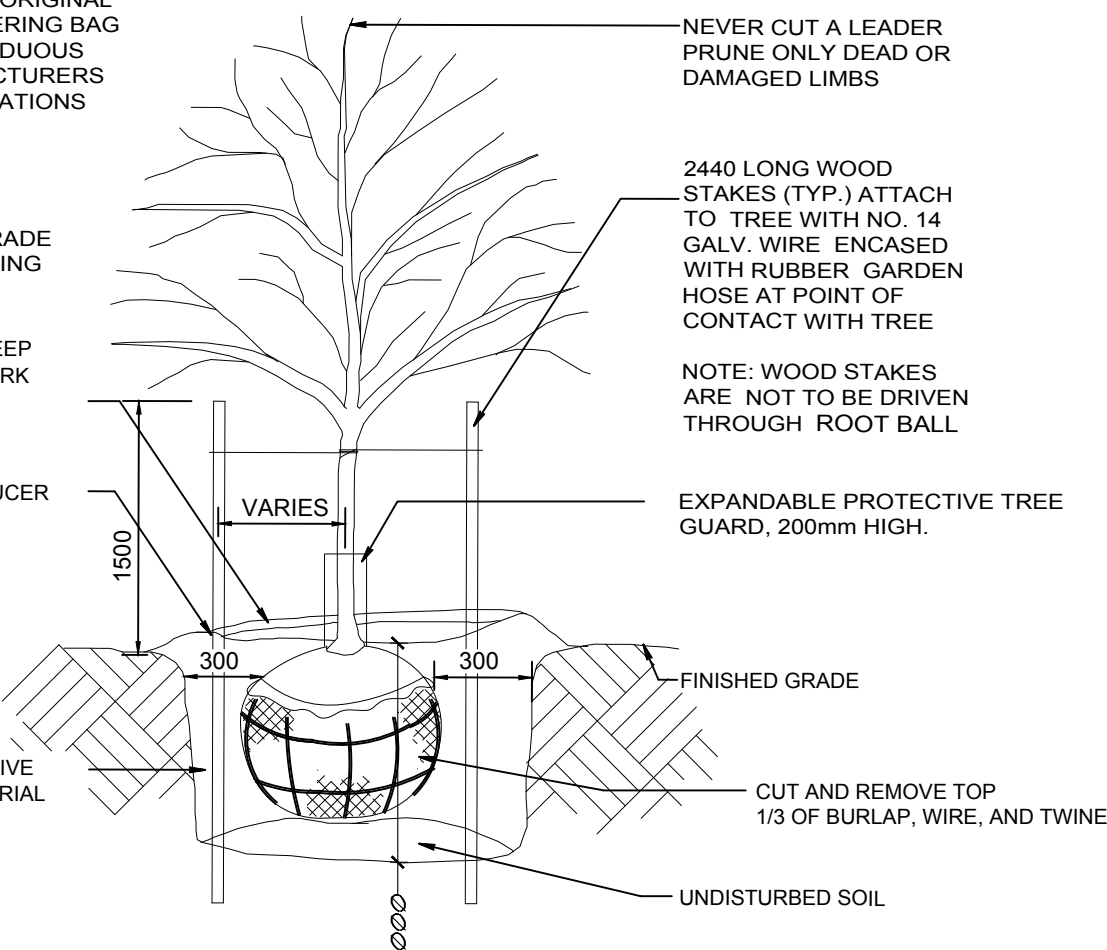
INSTALL TREEGATOR ORIGINAL SLOW RELEASE WATERING BAG ON ALL CALIPER DECIDUOUS TREES. SEE MANUFACTURERS DETAIL FOR SPECIFICATIONS AND DIRECTIONS.

TREE TO BEAR SAME RELATIONSHIP TO GRADE AS PREVIOUS PLANTING

MIN. 100mm DEEP SHREDDED BARK MULCH

EARTH SAUCER

APPROVED NATIVE BACKFILL MATERIAL



NEVER CUT A LEADER PRUNE ONLY DEAD OR DAMAGED LIMBS

2440 LONG WOOD STAKES (TYP.) ATTACH TO TREE WITH NO. 14 GALV. WIRE ENCASED WITH RUBBER GARDEN HOSE AT POINT OF CONTACT WITH TREE

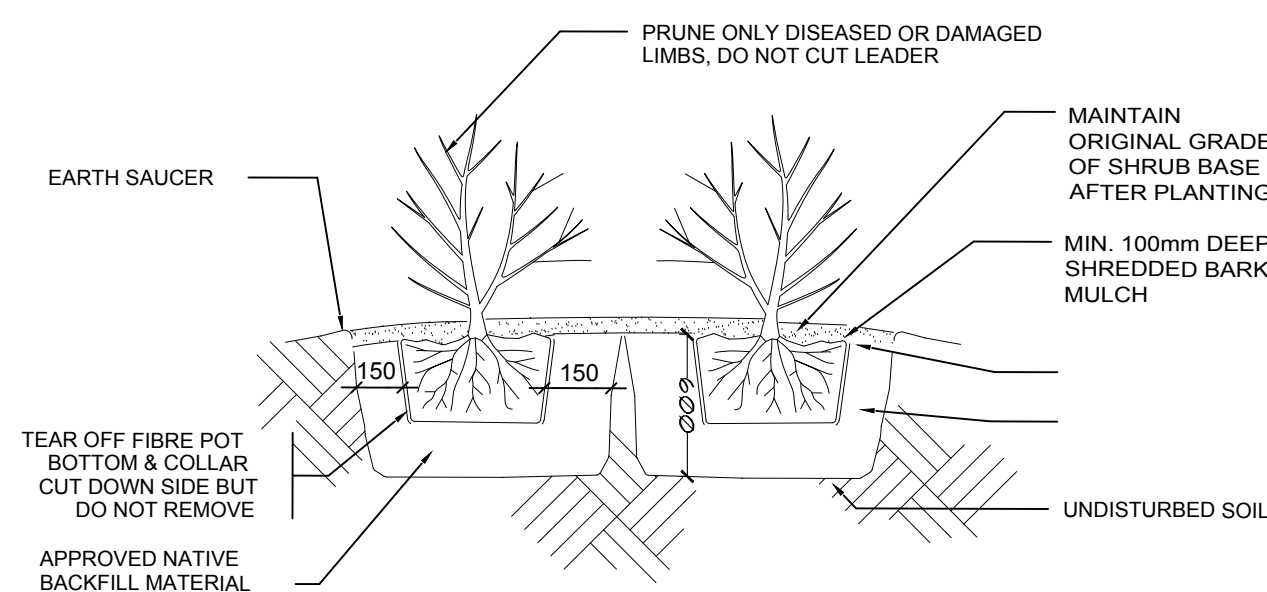
NOTE: WOOD STAKES ARE NOT TO BE DRIVEN THROUGH ROOT BALL

EXPANDABLE PROTECTIVE TREE GUARD, 200mm HIGH.

CUT AND REMOVE TOP 1/3 OF BURLAP, WIRE, AND TWINE

UNDISTURBED SOIL

1 DECIDUOUS TREE PLANTING DETAIL
NTS



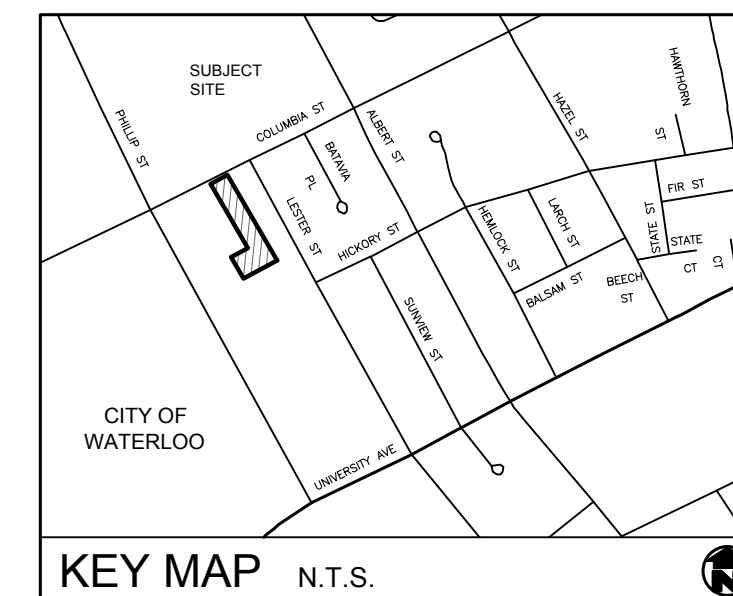
PRUNE ONLY DISEASED OR DAMAGED LIMBS. DO NOT CUT LEADER

MAINTAIN ORIGINAL GRADE OF SHRUB BASE AFTER PLANTING

MIN. 100mm DEEP SHREDDED BARK MULCH

UNDISTURBED SOIL

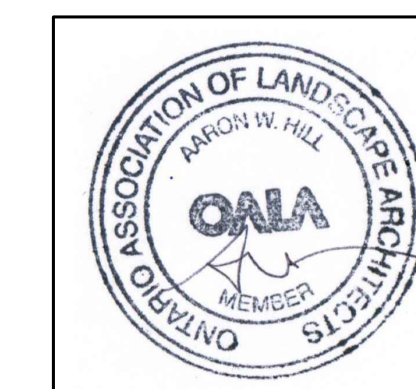
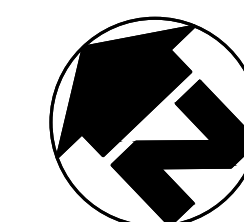
2 SHRUB PLANTING DETAIL
NTS



GENERAL NOTES

- ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.
- ALL PLANT MATERIAL TO BE NO. 1 GRADE NURSERY GROWN IN ACCORDANCE WITH THE CANADIAN STANDARDS FOR NURSERY STOCK, 8TH EDITION, 2017, BY THE CANADIAN NURSERY TRADES ASSOCIATION.
- BACKFILL WILL CONSIST OF SOIL NATIVE TO THE SITE OR GENERAL SOIL TYPE/CLASS NATIVE TO THE SITE. TOPSOIL TO BE TESTED FOR NUTRIENT VALUE, AND AMENDED FOR OPTIMAL GROWTH AS PER THE RECOMMENDATIONS OF THE SOIL TEST.
- CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNERS ACCEPTANCE OF PROJECT.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/SERVICES.
- ALL MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SPREAD MULCH TO A MINIMUM OF 100mm COMPACTED DEPTH ON ALL TREE PITS AND PLANTING BEDS.
- CHECK AND VERIFY ALL DIMENSIONS AND QUANTITIES PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT. QUANTITIES NOTED WITHIN THE PLAN SUPERCEDE THOSE IN THE PLANT LIST. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
- SOD AS MARKED WITH NURSERY SOD ON A MINIMUM OF 100mm OF CLEAN TOPSOIL. FINE GRADE AND SOD ALL BOULEVARD AREAS TO MUNICIPAL SPECIFICATIONS AND REPAIR DAMAGE TO ADJACENT PROPERTIES AS REQUIRED.
- FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
- ALL SEEDED SLOPES 3:1 AND GREATER TO RECEIVE EROSION CONTROL MATTING. PIN SOD ON ALL SLOPES OF 3:1 OR GREATER.
- SUBMIT A WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIODS LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS.
- AT THE TIME OF FINAL INSPECTION ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION, PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.
- SITE PLAN INFORMATION AS PER PGDS.
- ENGINEERING AS PER K. SMART ASSOCIATES LTD., AND IS PROVIDED FOR INFORMATION ONLY.
- SITE LIGHTING BY OTHERS

143 COLUMBIA INC.



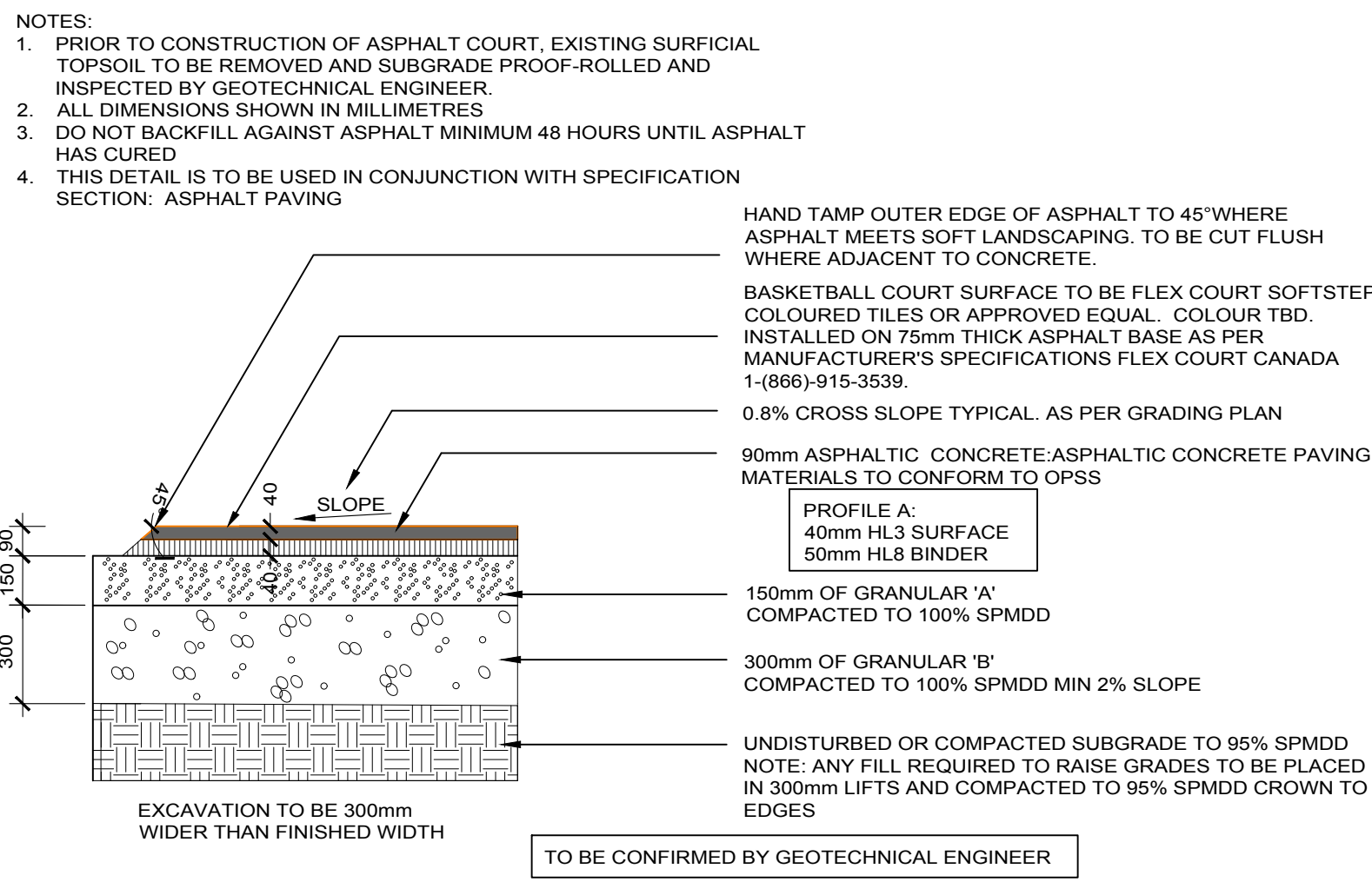
no.	date	description	by
1.	Nov.3.21	Issued for approval	CMH
2.	Apr.4.23	Issued for approval	CMH
3.	Aug.10.23	Issued for approval	DPV
4.	Feb.9.24	Issued for approval	CMH

PROPOSED DEVELOPMENT
143 Columbia St. W
City of Waterloo

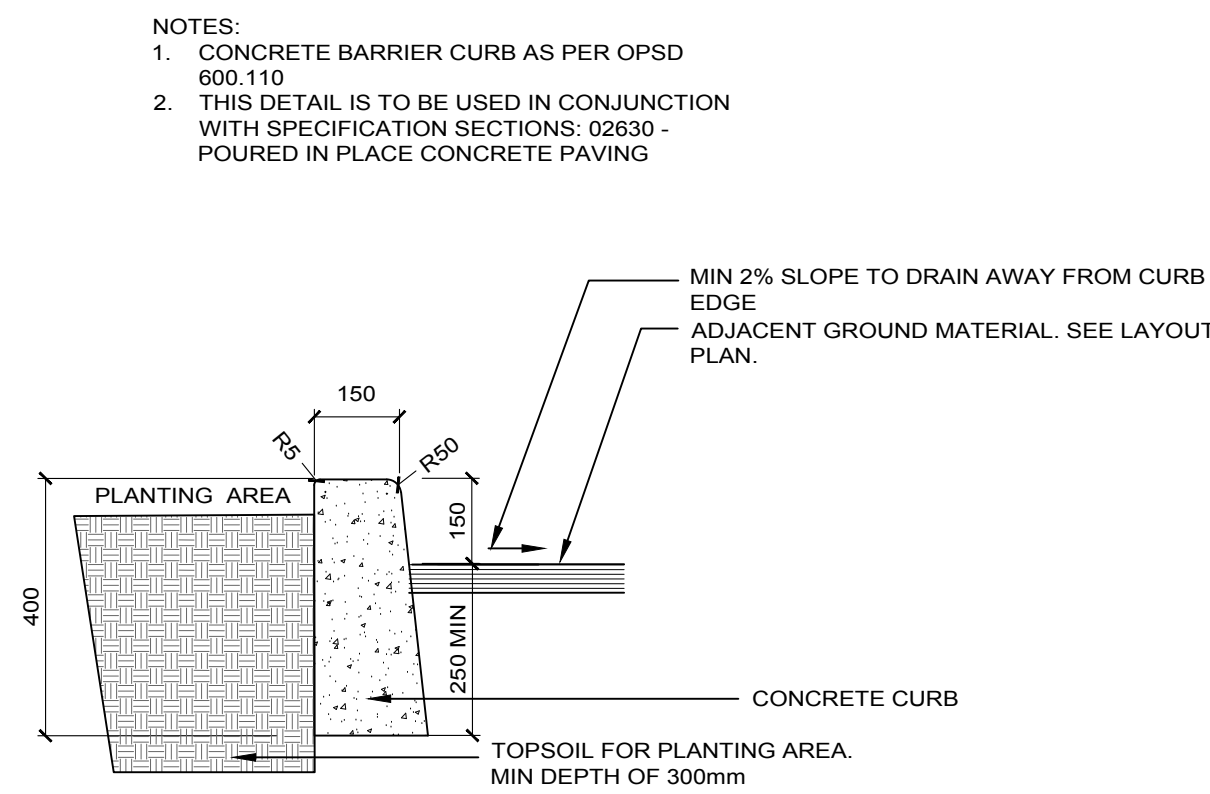
Planting Plan



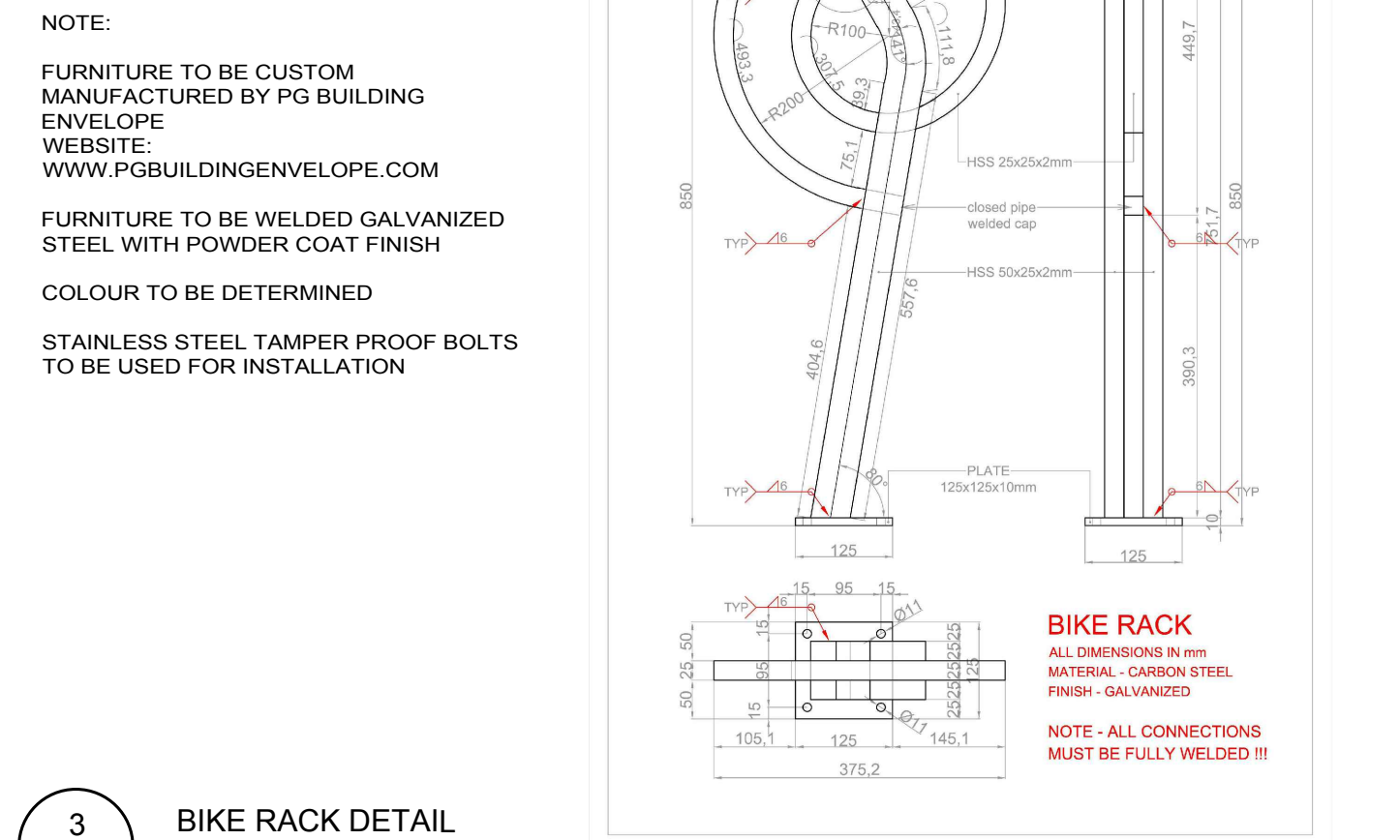
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SCALE: 1:300	DESIGNED BY: CMH/AWH
SHEET:	APPROVED BY: AWH
L3	PLOT DATE: FEB. 9, 2024



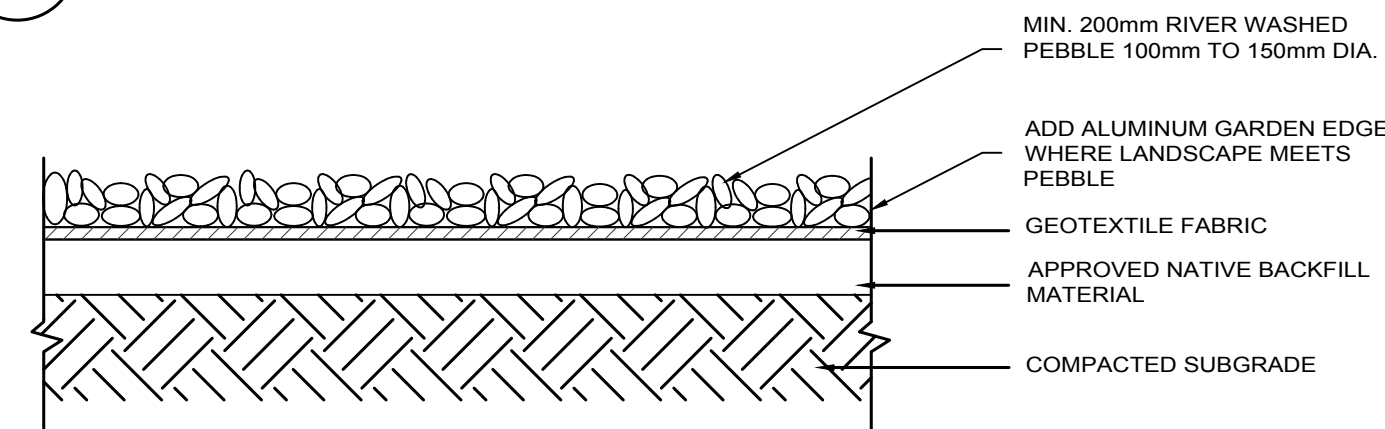
1 HALF COURT BASKETBALL SURFACING DETAIL
NTS



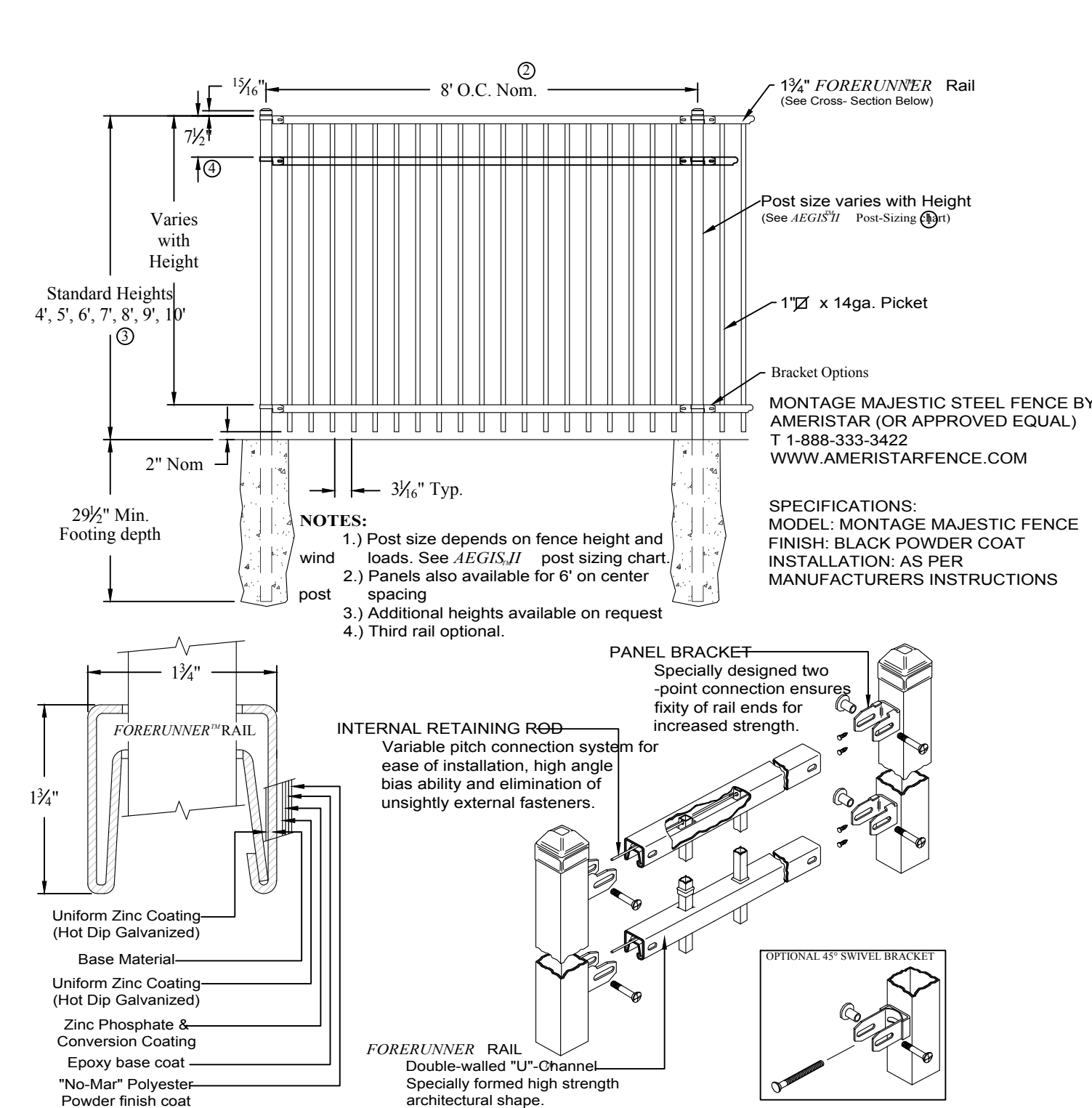
2 150mm HIGH CONCRETE CURB DETAIL
NTS



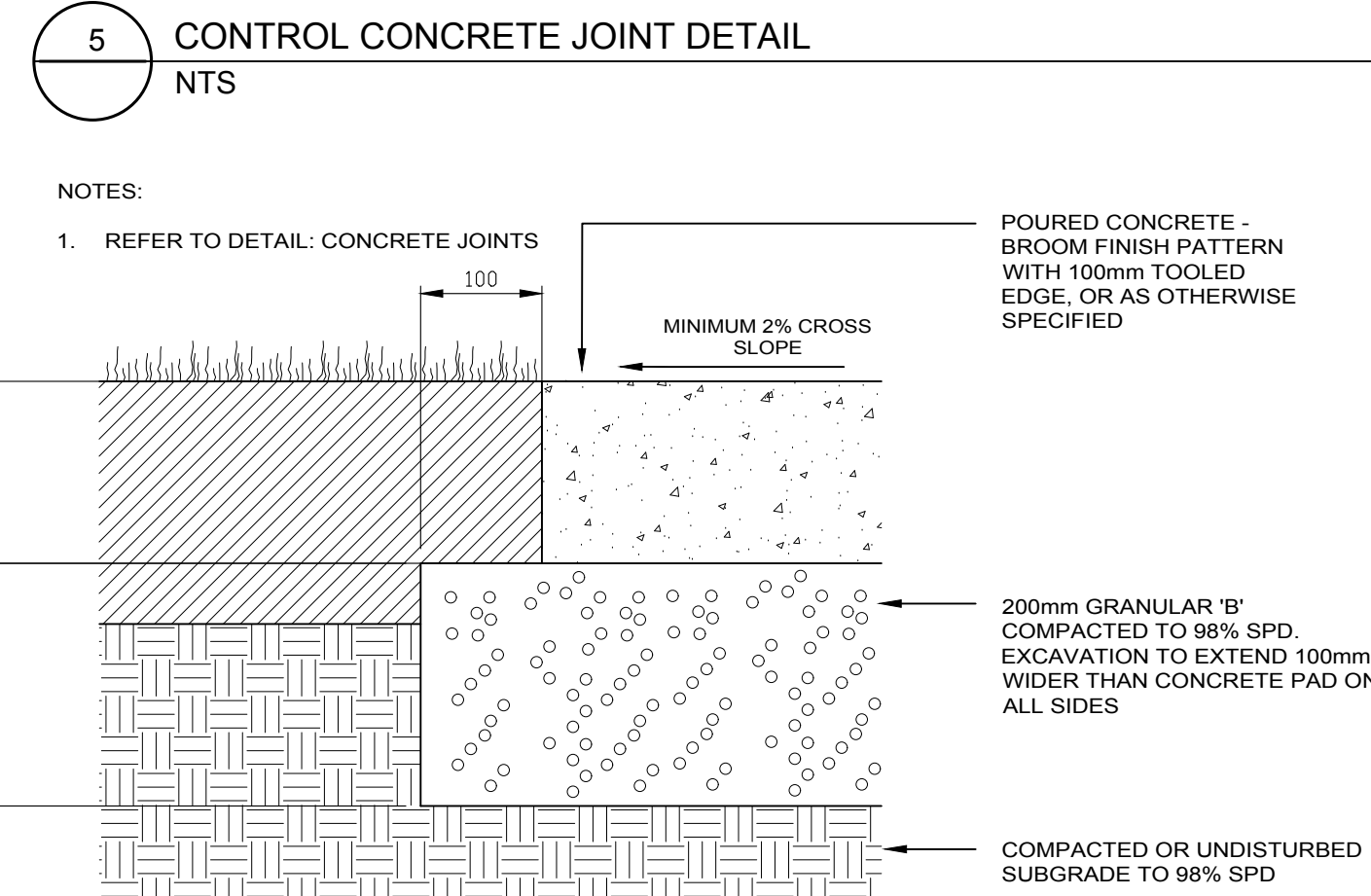
3 BIKE RACK DETAIL
NTS



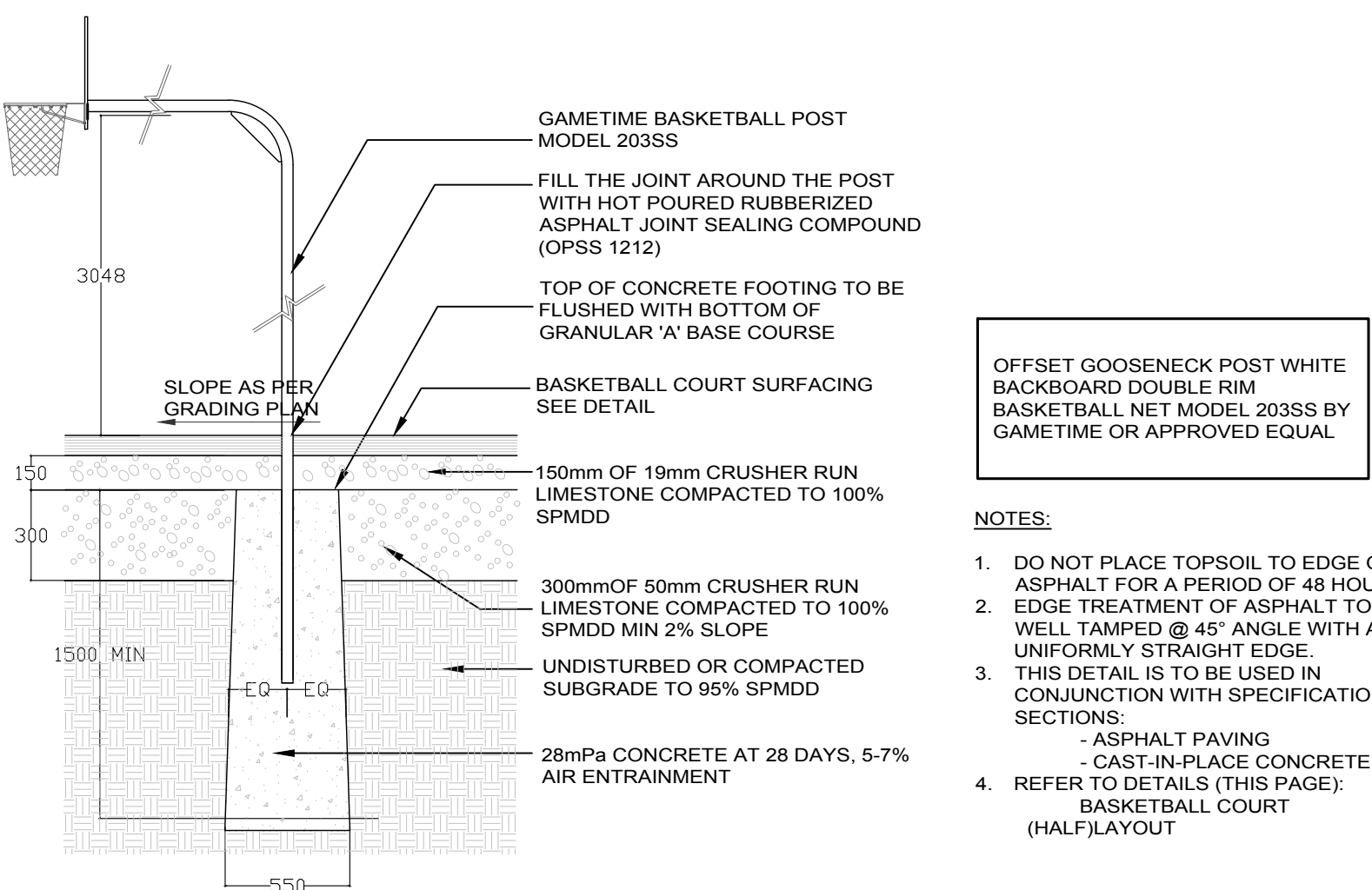
7 RIVER PEBBLE MULCH DETAIL
NTS



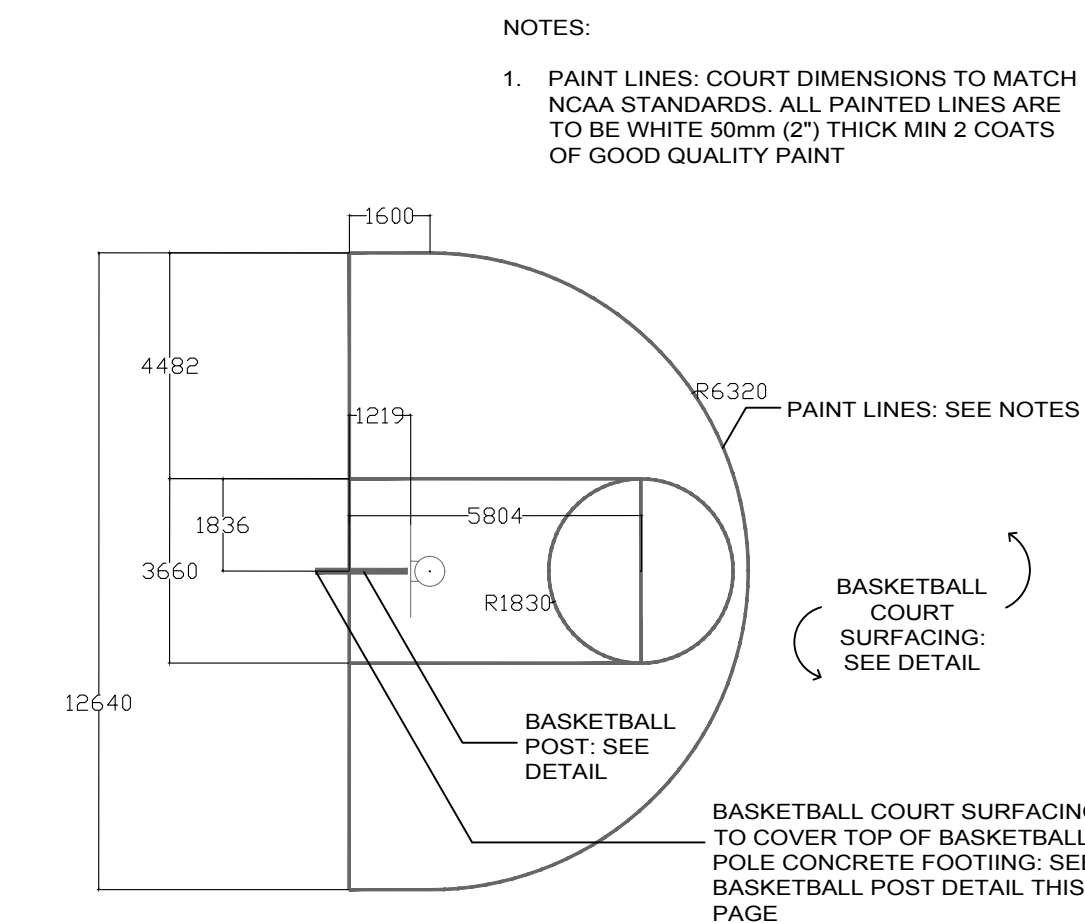
4 1.2m HIGH DECORATIVE STEEL FENCE DETAIL



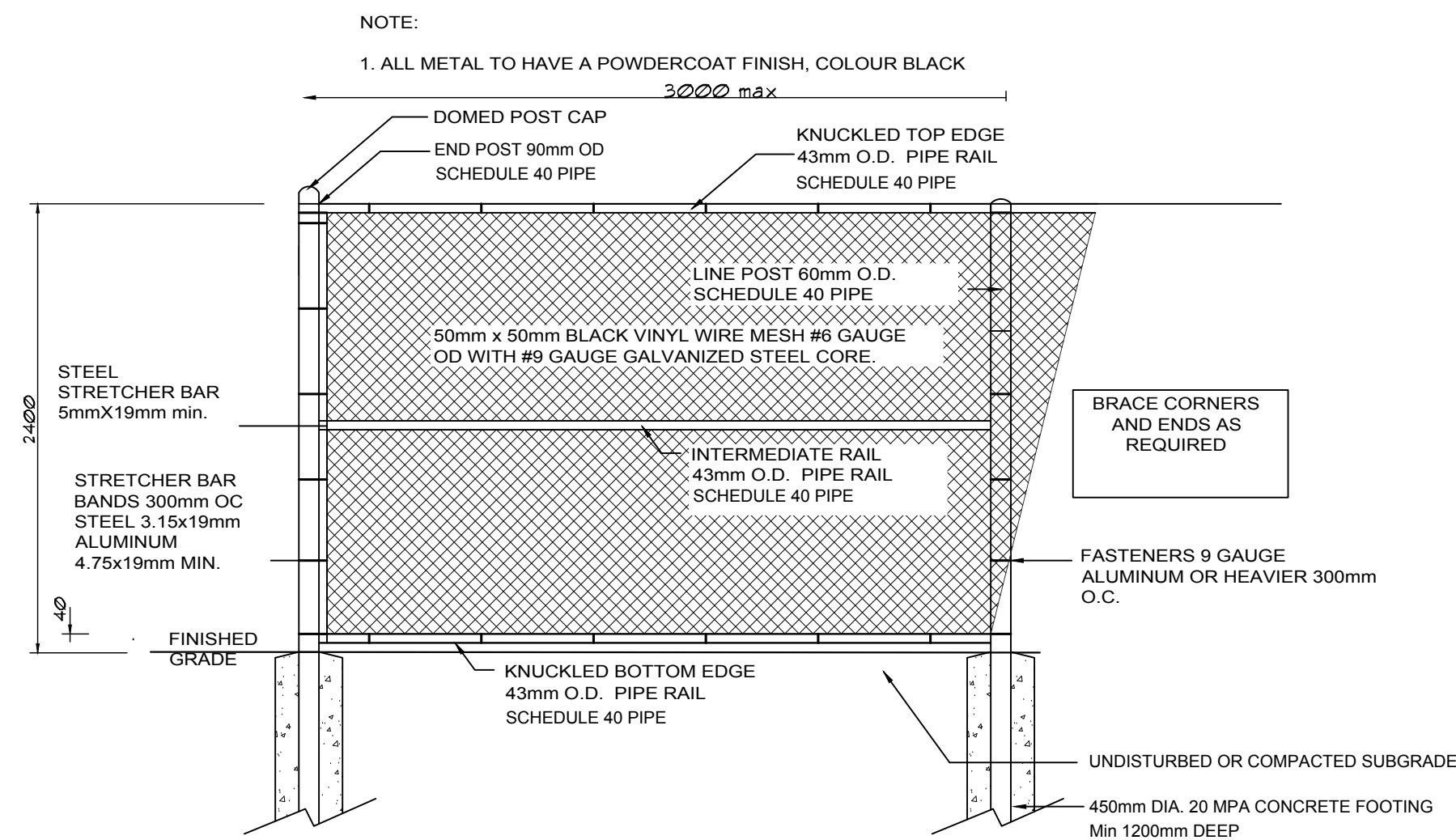
6 PIP CONCRETE PAD DETAIL
NTS



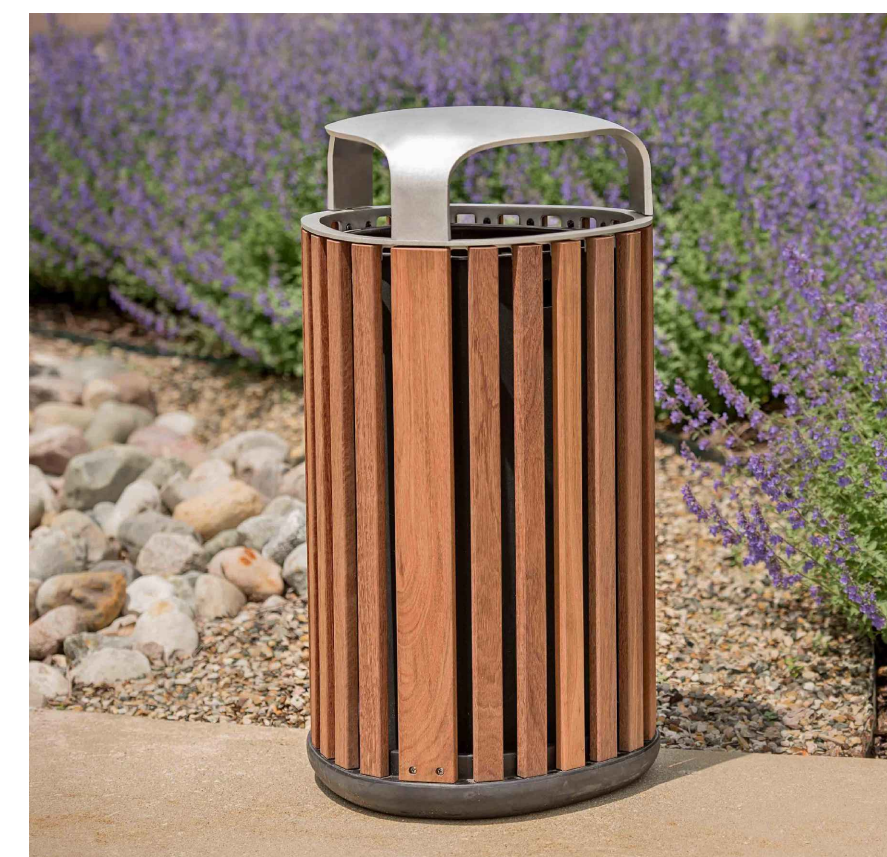
9 BASKETBALL POST DETAIL
NTS



10 BASKETBALL COURT (HALF) LAYOUT
NTS



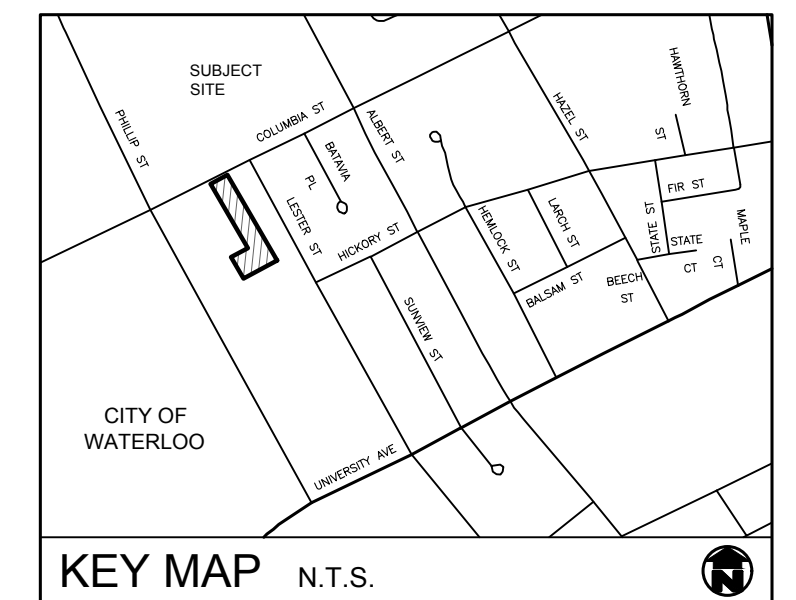
8 2.4m BLACK VINYL CHAIN LINK FENCE
NTS



TRASH RECEPTACLE BY LANDSCAPE FORMS (OR APPROVED EQUAL)
T 1-800-430-6206
F 1-269-337-1395
WWW.LANDSCAPEFORMS.COM
TRACY@LANDSCAPEFORMS.COM

SPECIFICATIONS:
MODEL: FGP LITTER
FINISH: STEEL POWDER COAT METAL, DSTMA WOOD
SIZE: 20" x 37" x 17 GAL
INSTALLATION: SURFACE MOUNT

11 TRASH RECEPTACLE DETAIL
NTS



143 COLUMBIA INC.



no.	date	description	by
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PROPOSED DEVELOPMENT
143 Columbia St. W
City of Waterloo

Landscape Details



PROJECT NO.: 2021-61	DRAWN BY: CMH
SCALE: AS NOTED	DESIGNED BY: CMH/AWH
SHEET:	APPROVED BY: AWH
	PLOT DATE: FEB. 9, 2024

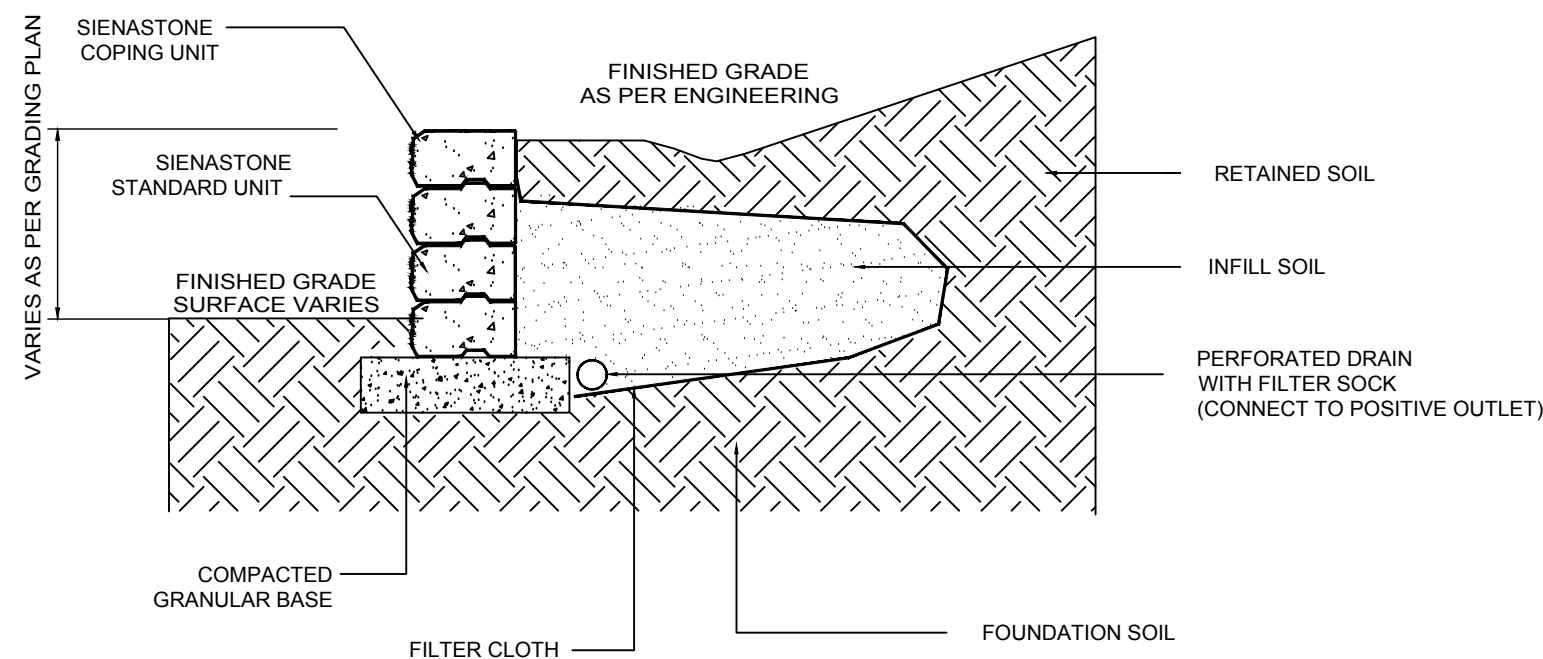
L4

ENGINEERING OF WALL BY OTHERS

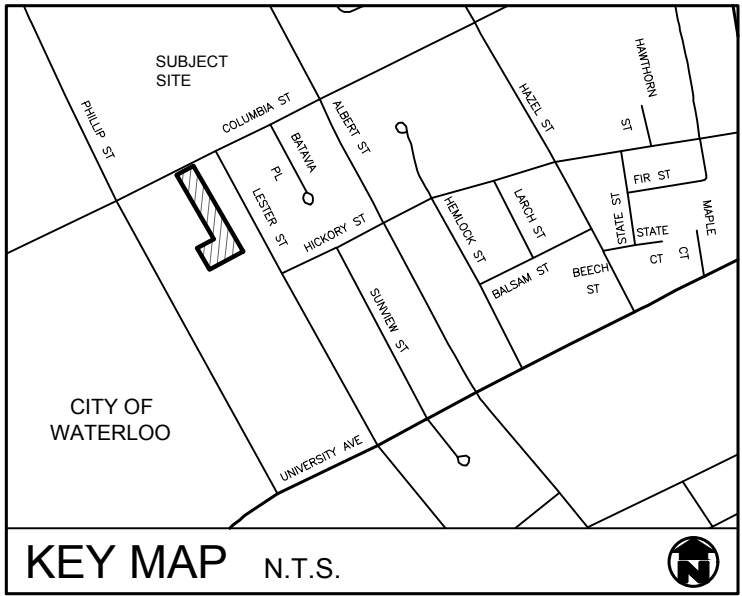
WWW.UNILOCK.COM
1-800-265-6124

NOTES:

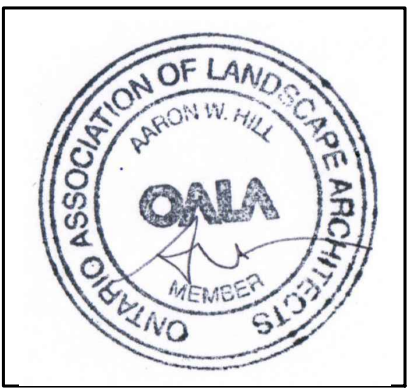
1. SIENASTONE 500 RETAINING WALL BY UNILOCK (OR APPROVED EQUAL.)
COLOUR: NATURAL
SIENASTONE 500 WALL TO RECEIVE OBC COMPLIANT GUARD AS REQUIRED.



1 TYPICAL SIENASTONE RETAINING WALL DETAIL
NTS



143 COLUMBIA INC.



REVISIONS			
no.	date	description	by
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PROPOSED DEVELOPMENT
143 Columbia St. W
City of Waterloo

Landscape Details



PROJECT NO.: 2021-61	DRAWN BY: CMH
SCALE: AS NOTED	DESIGNED BY: CMH/AWH
SHEET:	APPROVED BY: AWH
L5	PLOT DATE: FEB. 9, 2024