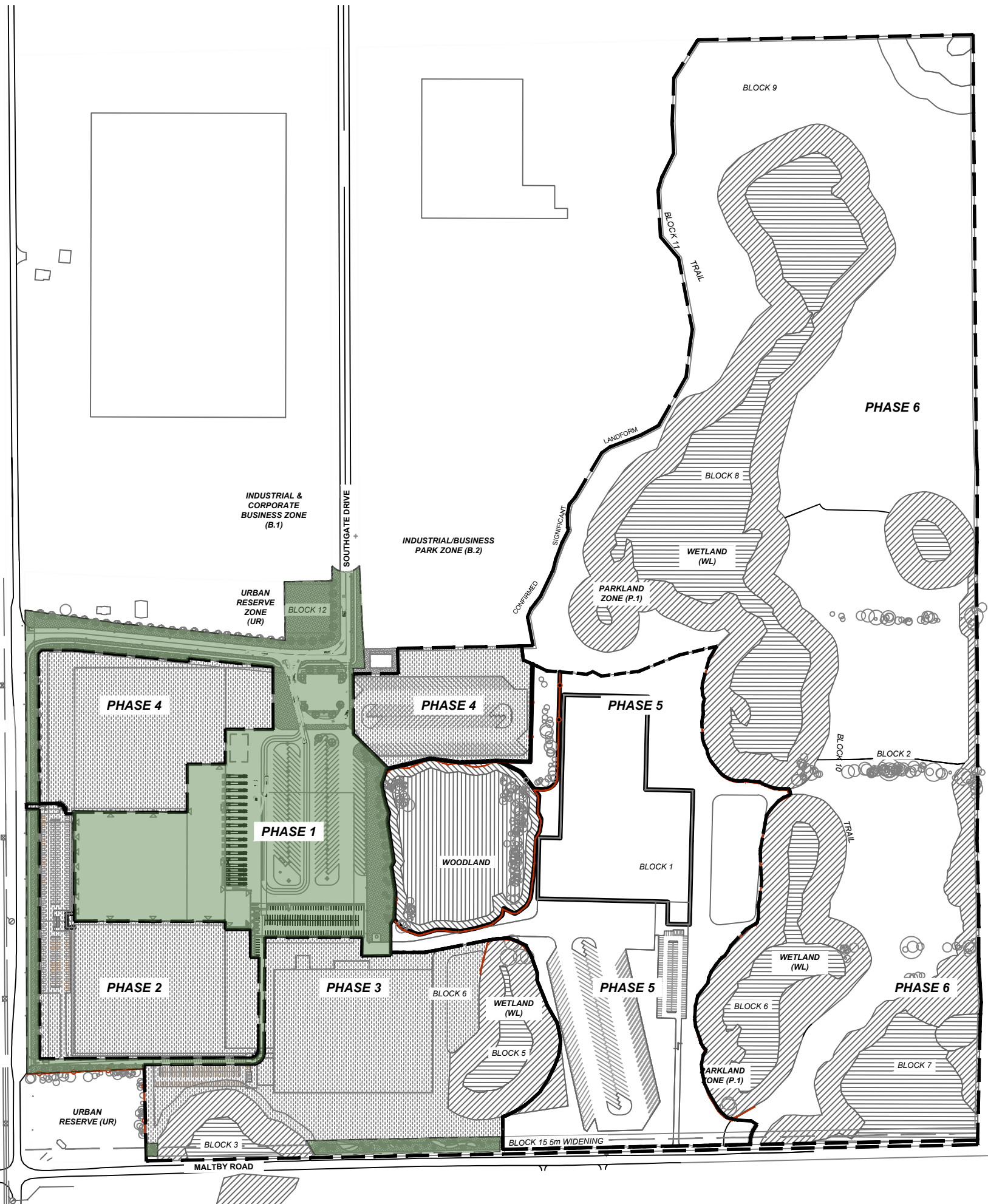
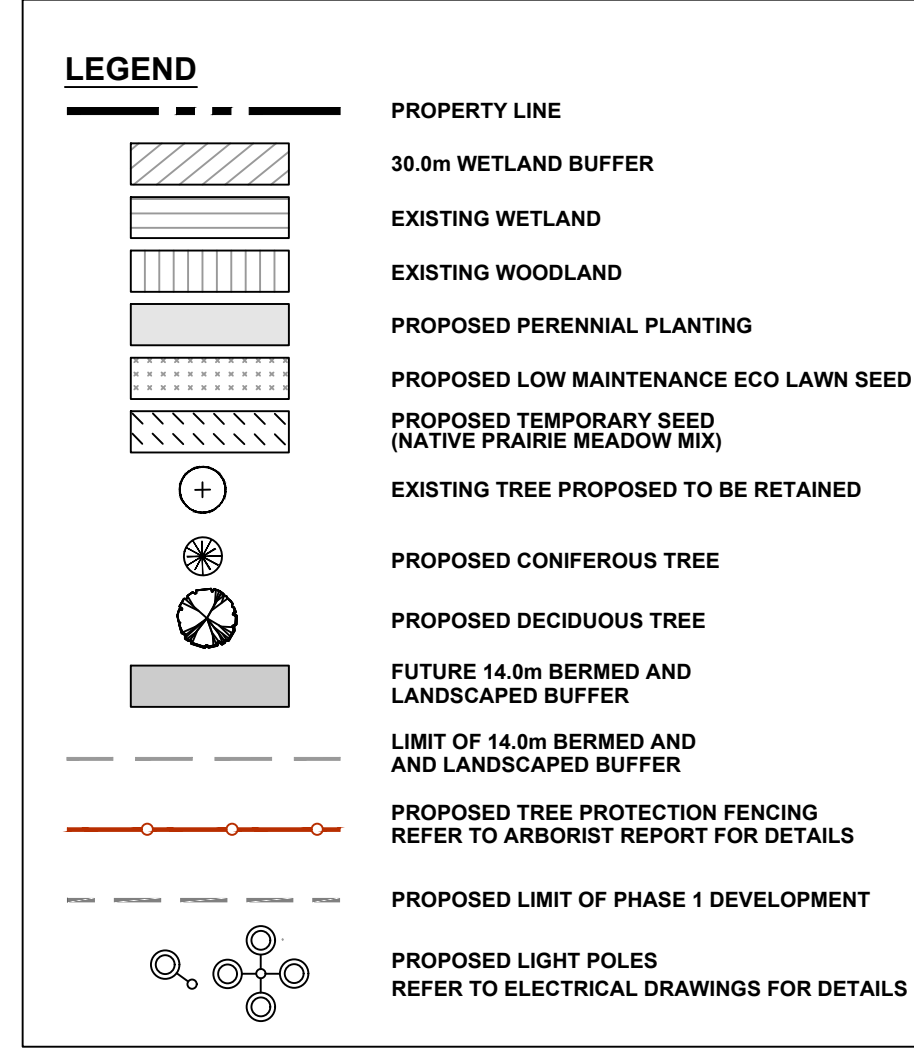
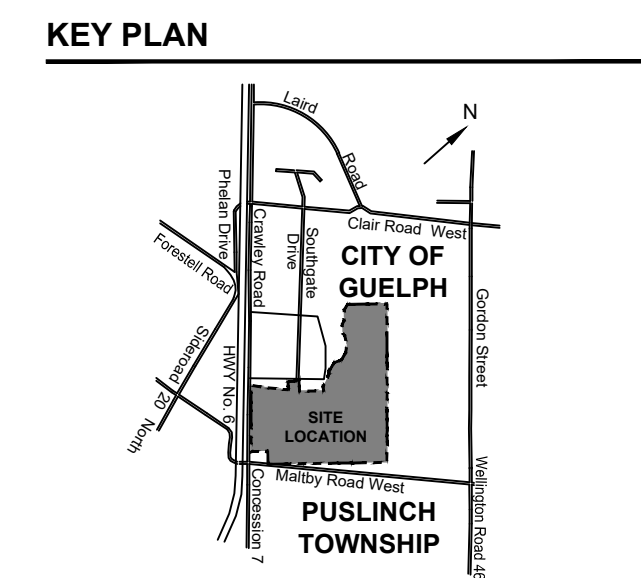


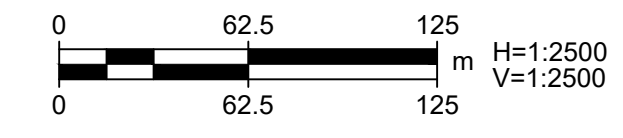
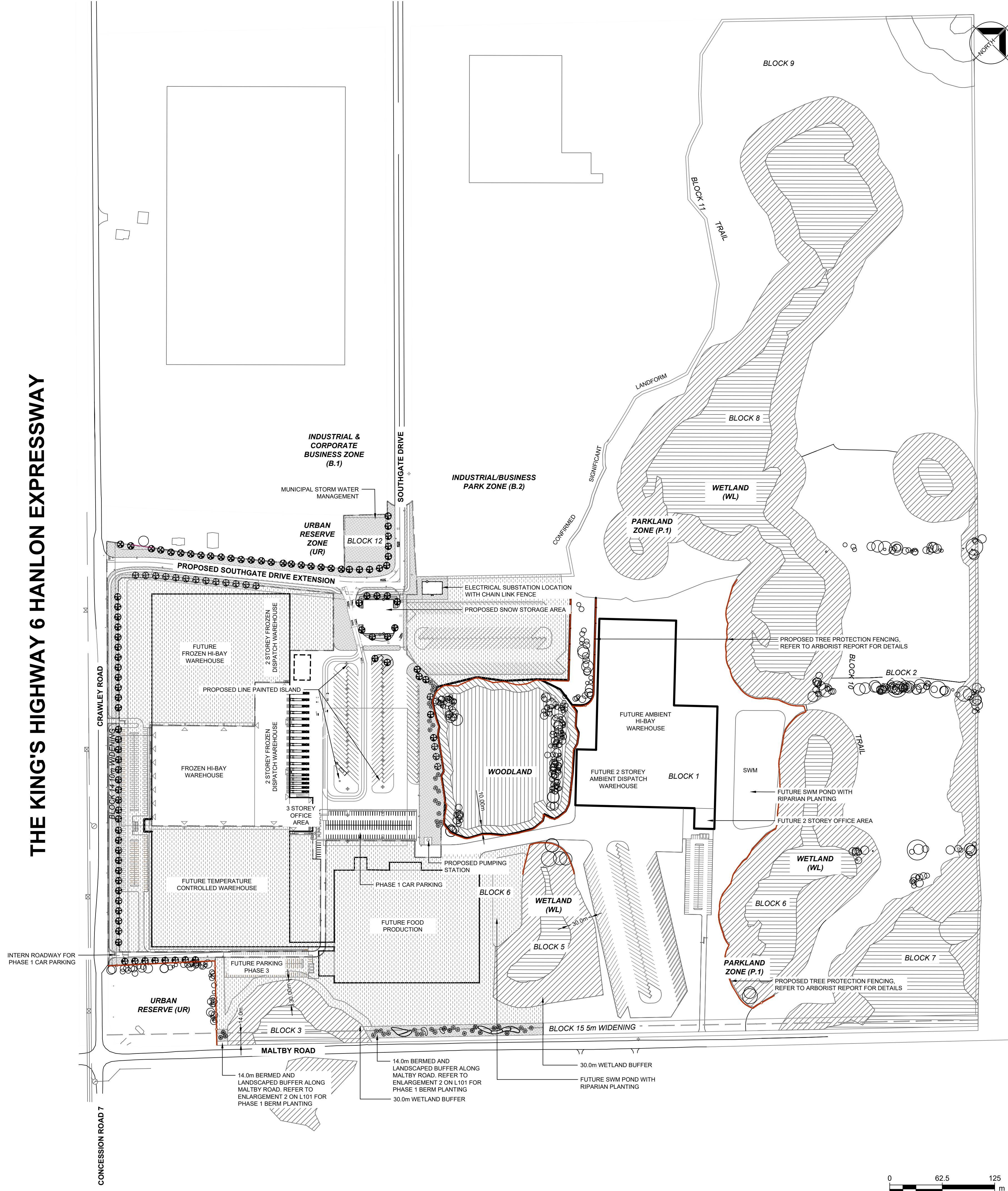
ISSUE/REVISION

I/R	DATE	DESCRIPTION
6		
5	2023-04-28	ISSUED FOR PHASE 1 SPA
4	2023-03-02	ISSUED FOR CLIENT REVIEW
3	2023-02-10	ISSUED FOR CLIENT REVIEW
2	2022-12-20	ISSUED FOR PHASE 1 SPA
1	2022-10-26	ISSUED FOR DRAFT PLAN APPROVAL



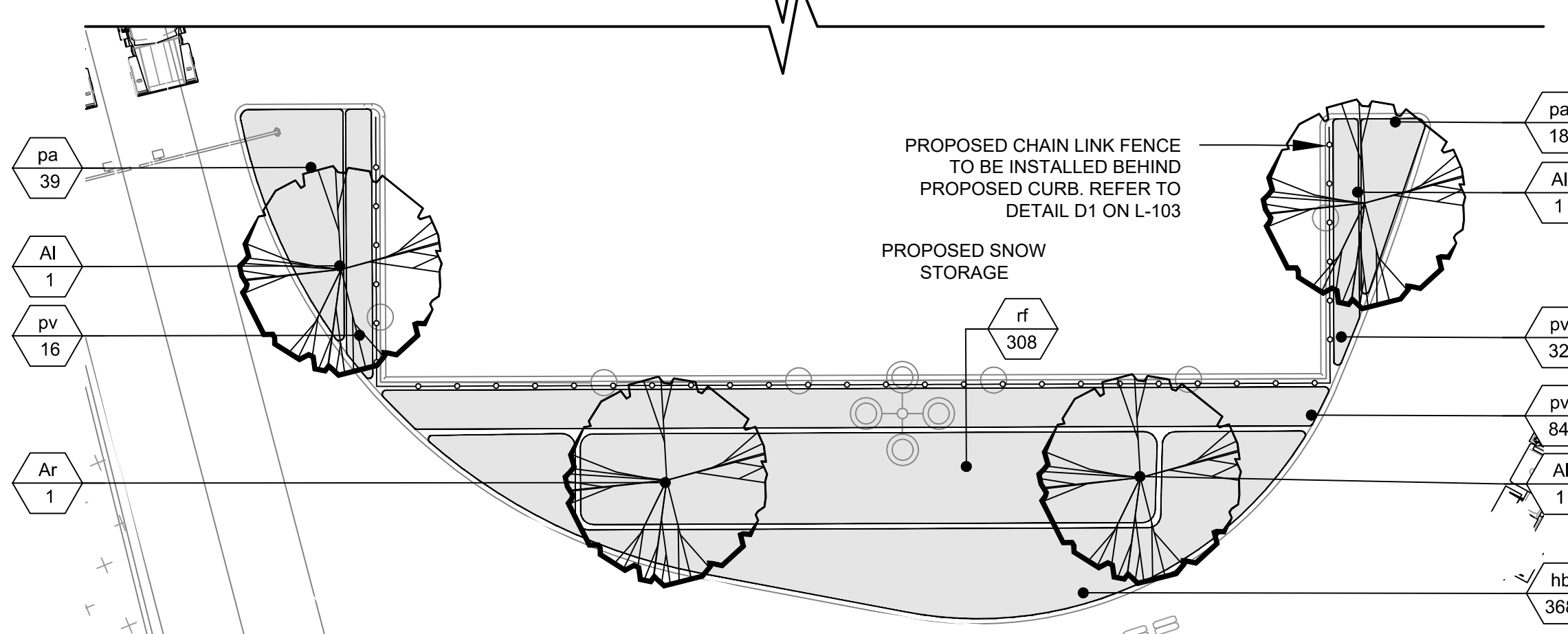
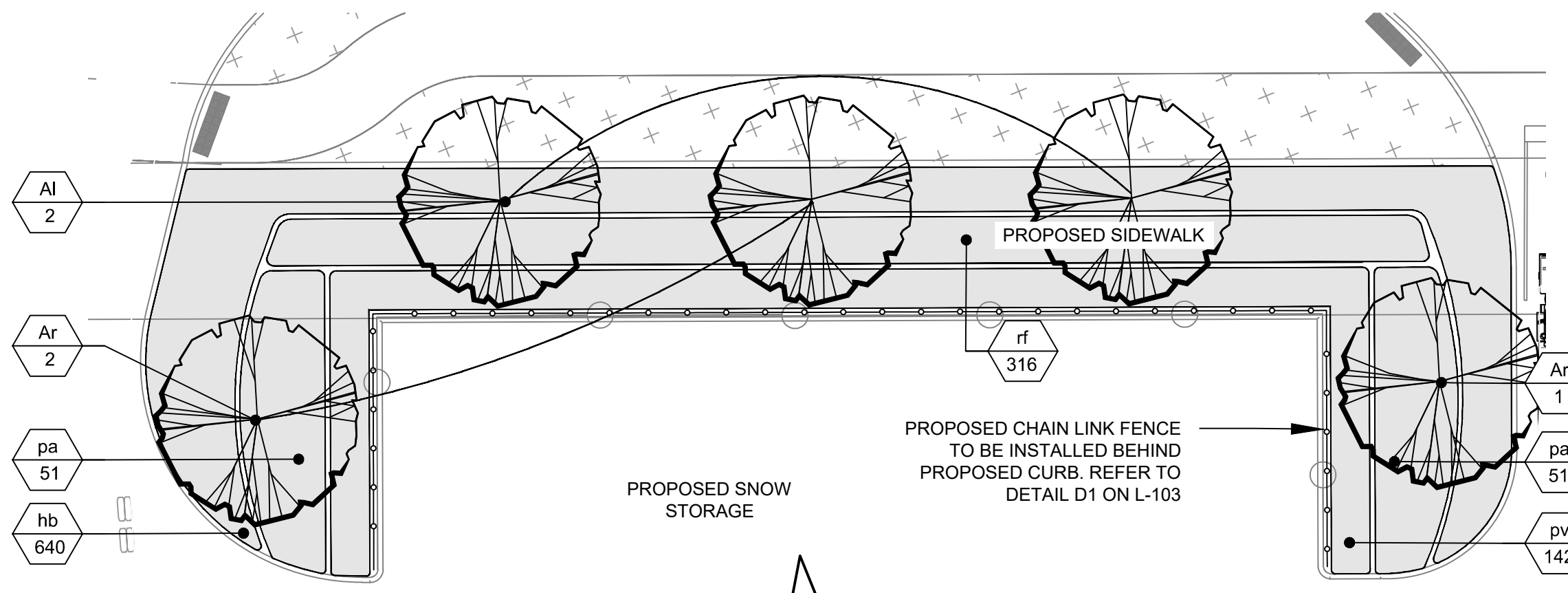
OVERALL PHASING PLAN

THE KING'S HIGHWAY 6 HANLON EXPRESSWAY



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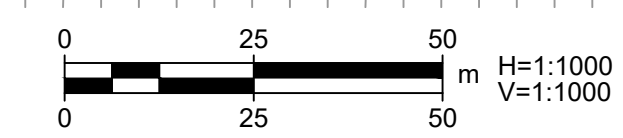
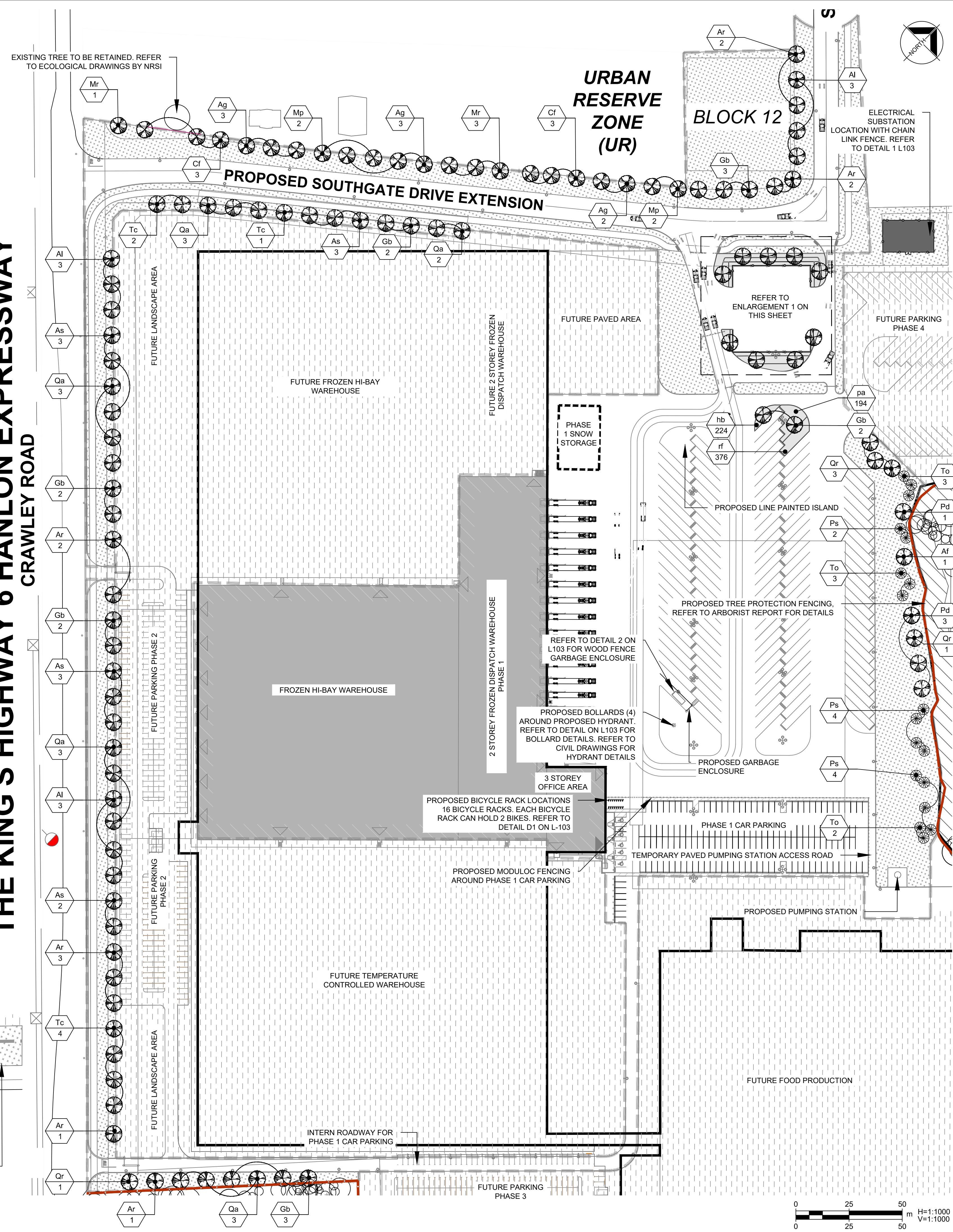
LEGEND	
	PROPERTY LINE
	30.0m WETLAND BUFFER
	EXISTING WOODLAND
	PROPOSED PERENNIAL PLANTING (REFER TO PLANT LIST & PLANTING ENLARGEMENT)
	PROPOSED LOW MAINTENANCE ECO LAWN SEED
	PROPOSED TEMPORARY SEED (NATIVE PRAIRIE MEADOW MIX)
	EXISTING TREE PROPOSED TO BE RETAINED
	PROPOSED CONIFEROUS TREE
	PROPOSED DECIDUOUS TREE
	PROPOSED TREE PROTECTION FENCING (REFER TO ARBORIST REPORT FOR DETAILS)
	PROPOSED LIMIT OF PHASE 1 DEVELOPMENT
	PROPOSED LIGHT POLES (REFER TO ELECTRICAL DRAWINGS FOR DETAILS)
	PROPOSED HYDRANT (REFER TO CIVIL DRAWINGS FOR DETAILS)
	PROPOSED FENCE
	PROPOSED MODULOC FENCE



E1
L-101
1:200
SCREENED SNOW REMOVAL EQUIPMENT AND GARBAGE AREA ENLARGEMENT

E2
L-101
1:750
LANDSCAPED BERM ALONG MALTBY ROAD

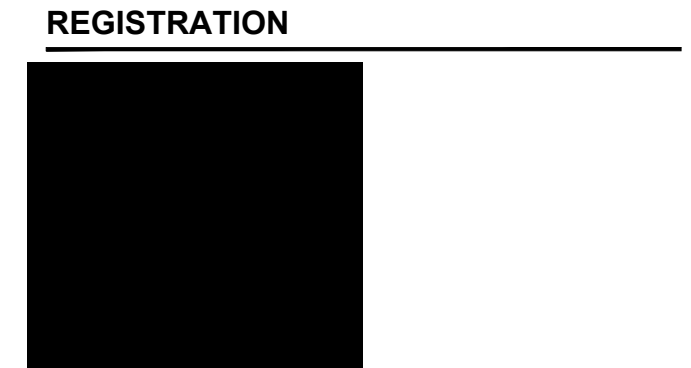
**THE KING'S HIGHWAY 6 HANLON EXPRESSWAY
CRAWLEY ROAD**



AECOM
PROJECT
NEWCOLD GUELPH
- T001
GUELPH, ONTARIO

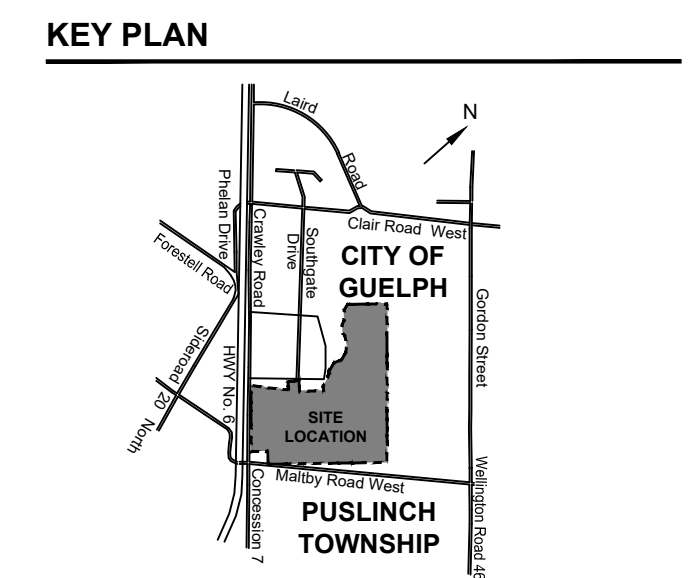
CLIENT
AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED.
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CULVERT BEDDING PER RPD STD DWG 5-2-18



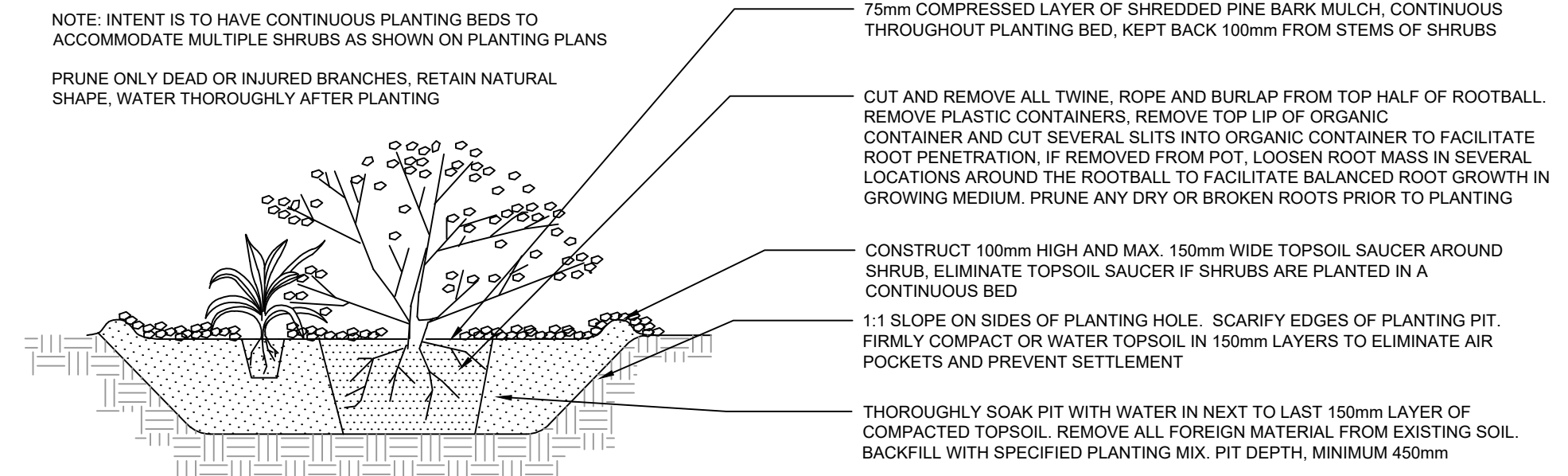
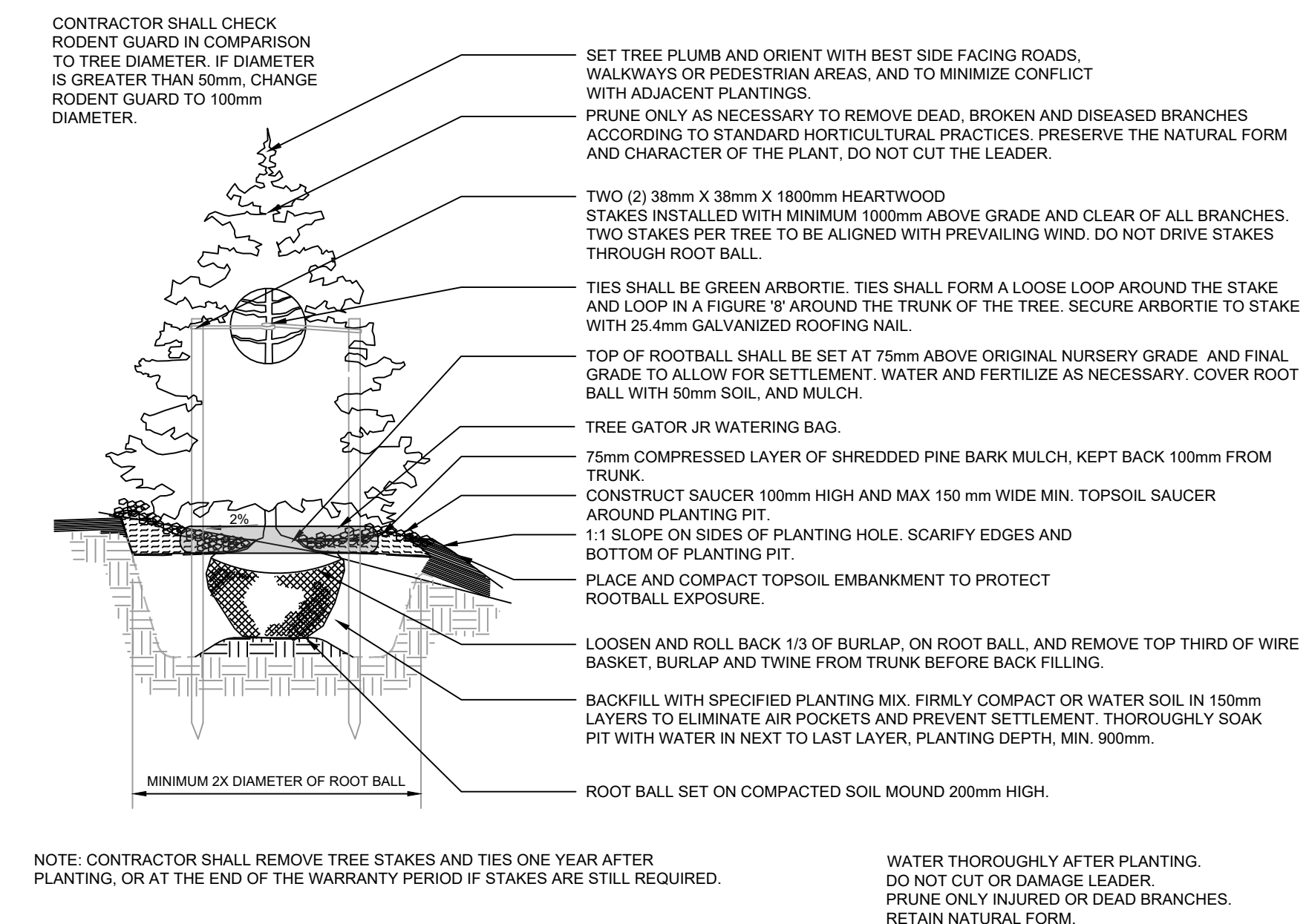
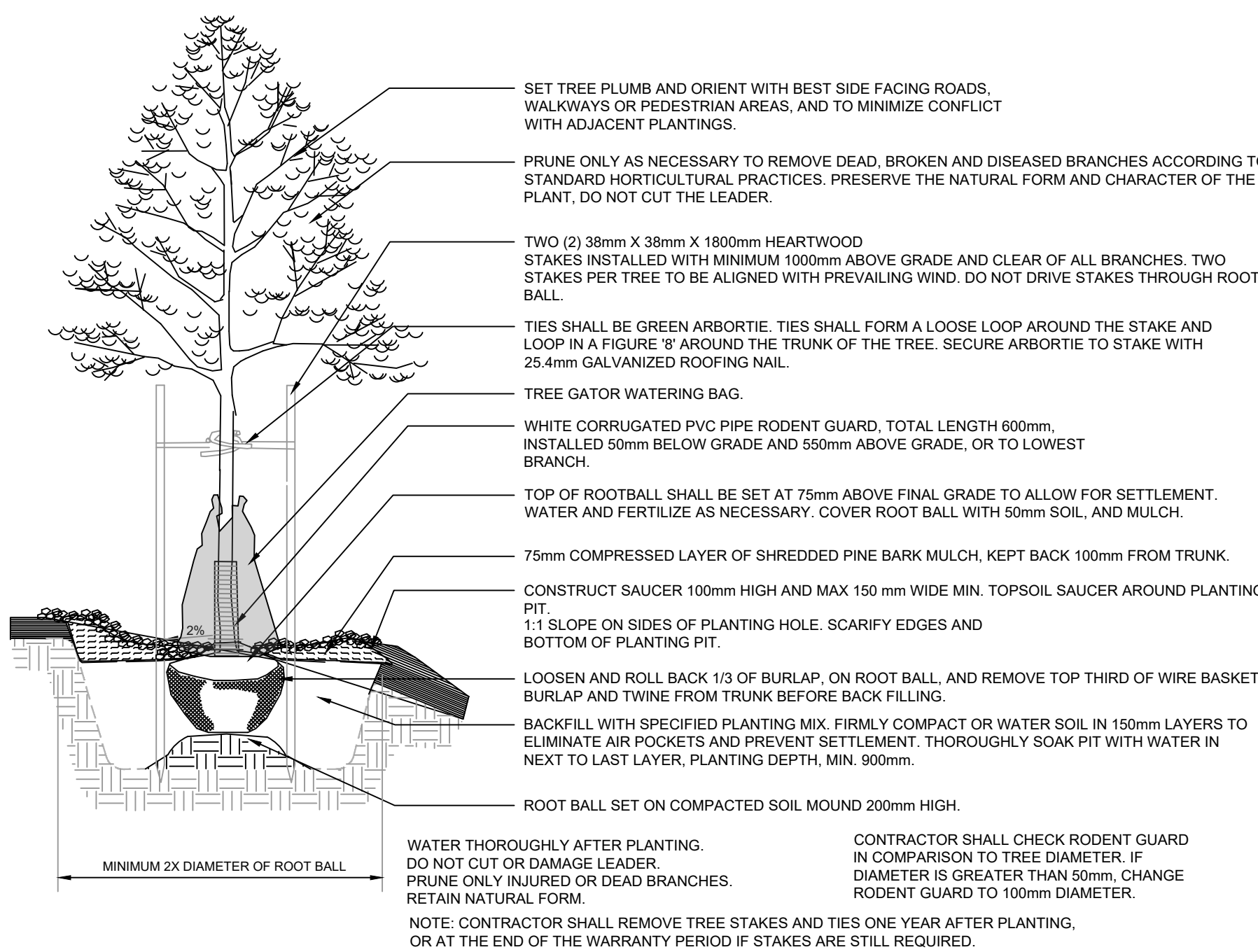
ISSUE/REVISION

I/R	DATE	DESCRIPTION
6		
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1	2022-10-26	ISSUED FOR DRAFT PLAN APPROVAL



PROJECT NUMBER
60682143
SHEET TITLE
LANDSCAPE SITE PLAN
PHASE 1
SHEET NUMBER
L101

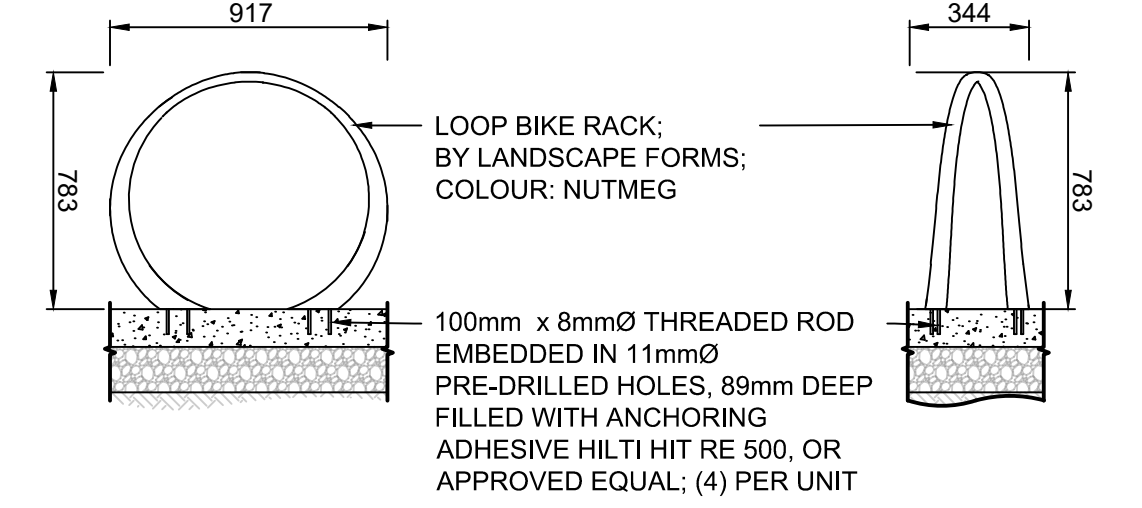
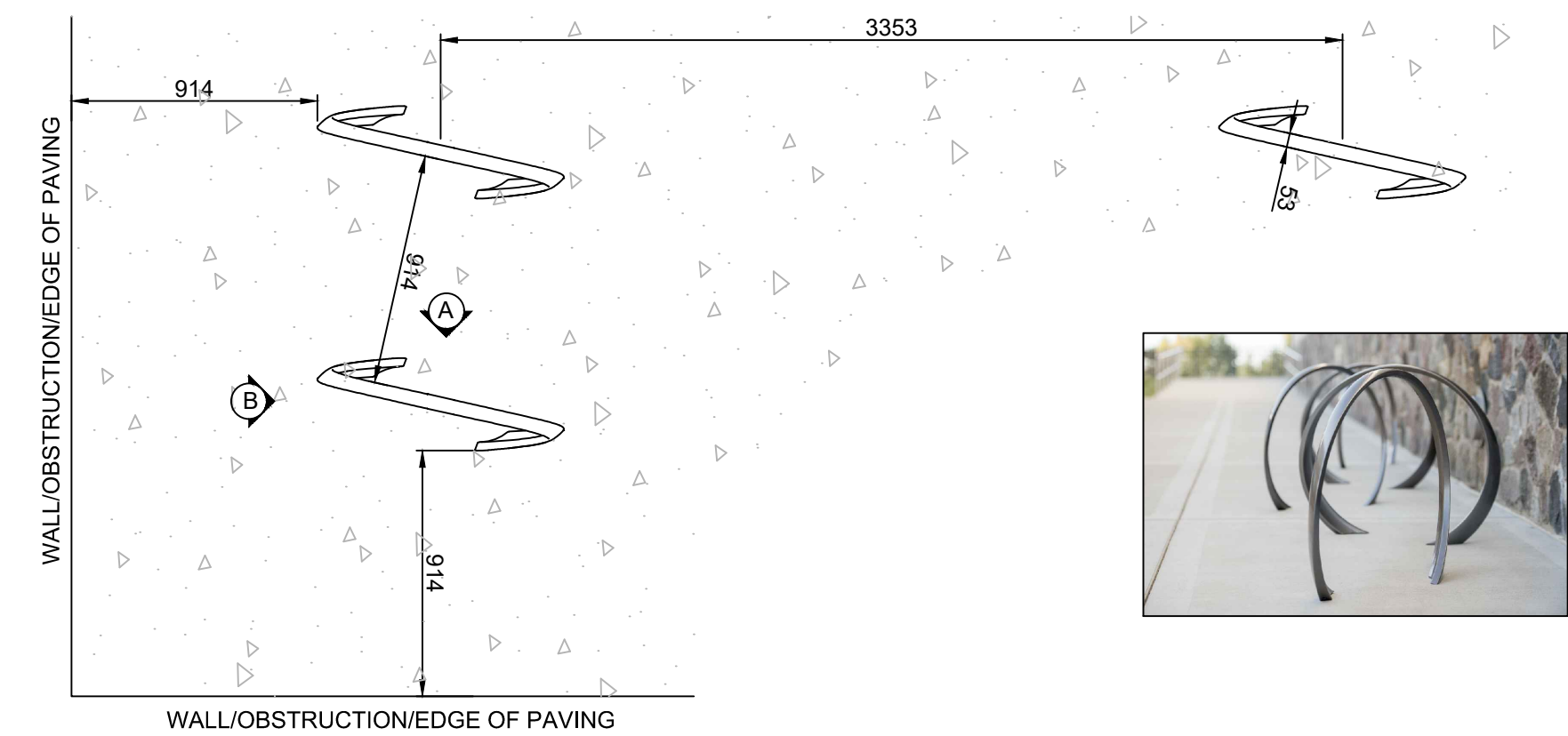
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D1 DECIDUOUS TREE PLANTING L-102 1:25

D2 CONIFEROUS TREE PLANTING L-102 1:25

D3 SHRUB PLANTING L-102 1:25



D3 LOOP BIKE RACK L102 1:25

Table with columns: KEY, QTY, BOTANICAL NAME, COMMON NAME, SIZE, CONDITION, SPACING. Lists plants like Acer ginnala, Thuja occidentalis, and various grasses.

GENERAL NOTES:

- 1. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS STAMPED AND SIGNED BY THE LANDSCAPE ARCHITECT. 2. ANY AMBIGUITY IN THE DRAWINGS... 3. DRAWINGS MAY BE SCALED FOR APPROPRIATE LAYOUT ONLY...

PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF ACCEPTABLE QUALITY AT NO ADDITIONAL COST TO THE PROJECT.

- 4. ONLY REMOVE DEAD OR DAMAGED BRANCHES ON TREES AND SHRUBS... 5. PLANTING LAYOUT TO BE DETERMINED ON SITE AT DIRECTION OF THE CONTRACT ADMINISTRATOR... 6. ANY DISCREPANCIES BETWEEN QUANTITIES SHOWN AND THE PLANT LIST SHALL BE REPORTED...

SEEDING NOTES

- 1. THE CONTRACTOR IS TO ENSURE COVERAGE AND SEED MIX GERMINATION. 2. SEED APPLICATION TO BE APPLIED IN A CONSISTENT AND THOROUGH FASHION COVERING ENTIRE SITE. 3. SEED SLOPES OF 3:1 OR GREATER TO BE APPLIED IN COMBINATION WITH FLEX TERRA HIGH PERFORMANCE-FLEXIBLE GROWTH MEDIUM (HP-FGM) OR APPROVED EQUIVALENT.

SEEDING IS NOT FEASIBLE OTHER EROSION CONTROL METHODS WILL BE REQUIRED. DISCUSS WITH THE CONTRACT ADMINISTRATOR PRIOR TO PROCEEDING.

- 8. HYDROSEED AFTER PLANTING IS COMPLETE. DO NOT APPLY HYDROSEED FROM A DISTANCE. BRING HOSE AND NOZZLE TO PLANTING AREA TO APPLY HYDROSEED DIRECTLY TO TOPSOIL AROUND PLANT MATERIAL. DO NOT DAMAGE PLANT MATERIAL WITH HOSE. HYDROSEED ALL EXPOSED TOPSOIL. 9. ALL AREAS ON SLOPE DISTURBED DURING REMOVAL OF SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE SEEDED WITH HYDROSEED APPLICATION OF THE SPECIFIED SEED MIX.

PLANTING NOTES

- 1. PLANT MATERIALS SPECIFIED FOR THIS PROJECT WILL CONFORM TO THE CANADIAN NURSERY LANDSCAPE ASSOCIATION (CNLA) FOR SIZE, VARIETY AND CONDITION AS INDICATED ON THE PLANT LIST SHOWN ON THIS SHEET. ANY PLANT MATERIALS WHICH DO NOT CONFORM WILL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

OSC SEED MIX #8340 NATIVE PRAIRIE MEADOW MIX

Table with columns: Latin Name, Common Name, %. Lists species like Festuca ovina, Festuca rubra, Lolium perenne.

Application: Sow seed mix at rate of 25kg/ha. Seed common oats (Avena sativa) as a nurse crop at 22kg/ha in the spring.

Available From: Ontario Seed Company (OSC) Address: 77 Wellington St. South, P.O. Box 7, Waterloo, ON N2J 3Z6 Phone: 519-886-0557 or 1-800-465-5849 Fax: 519-886-0605

OSC SEED MIX #8135 NATIVE PRAIRIE MEADOW MIX

Table with columns: Latin Name, Common Name, %. Lists species like Aster novae-angliae, Desmodium canadense, Monarda fistulosa, Panicum virgatum, Penstemon digitalis, Poa palustris, Rudbeckia hirta, Schizachyrium scoparium, Solidago juncea, Sorghastrum nutans, Verbena urticifolia.

Application: Sow seed mix at rate of 25kg/ha. Seed common oats (Avena sativa) as a nurse crop at 22kg/ha in the spring. Seed fall ryegrass (Secale cereale) or winter wheat (Triticum aestivum) as a nurse crop and for erosion control at 22kg/ha in the fall.

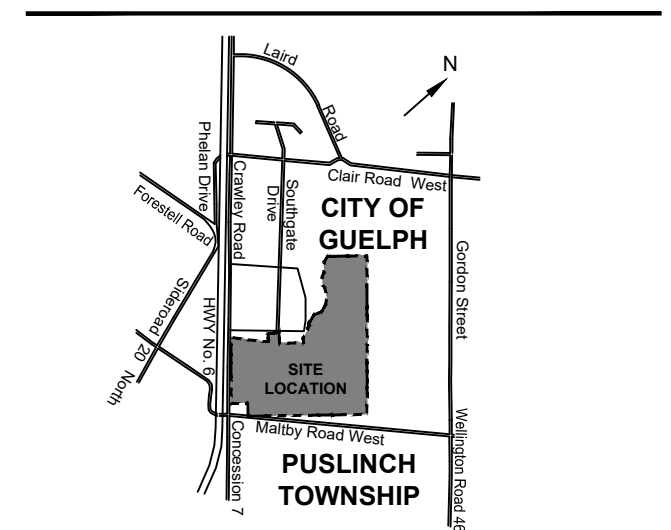
Available From: Ontario Seed Company (OSC) Address: 77 Wellington St. South, P.O. Box 7, Waterloo, ON N2J 3Z6 Phone: 519-886-0557 or 1-800-465-5849 Fax: 519-886-0605

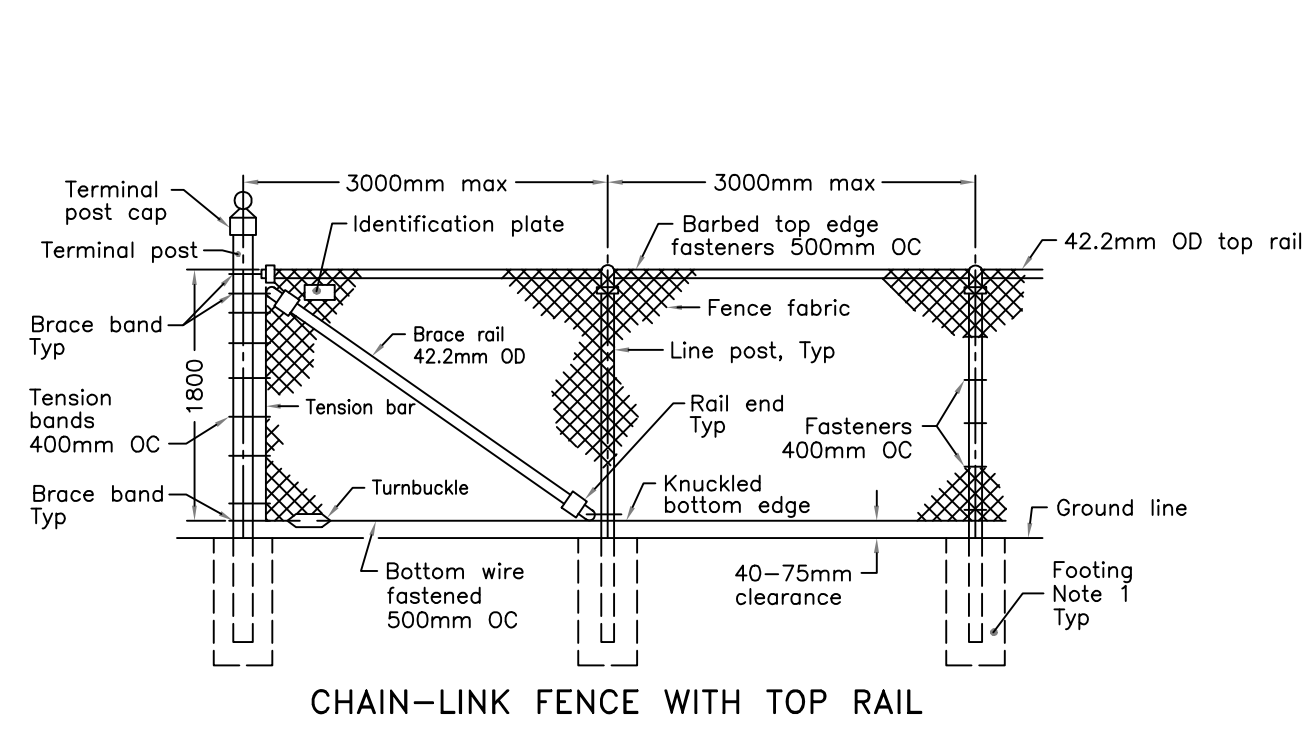
REGISTRATION

ISSUE/REVISION

Table with columns: #, DATE, DESCRIPTION. Lists revision 6 dated 2023-04-28 for PHASE 1 SPA.

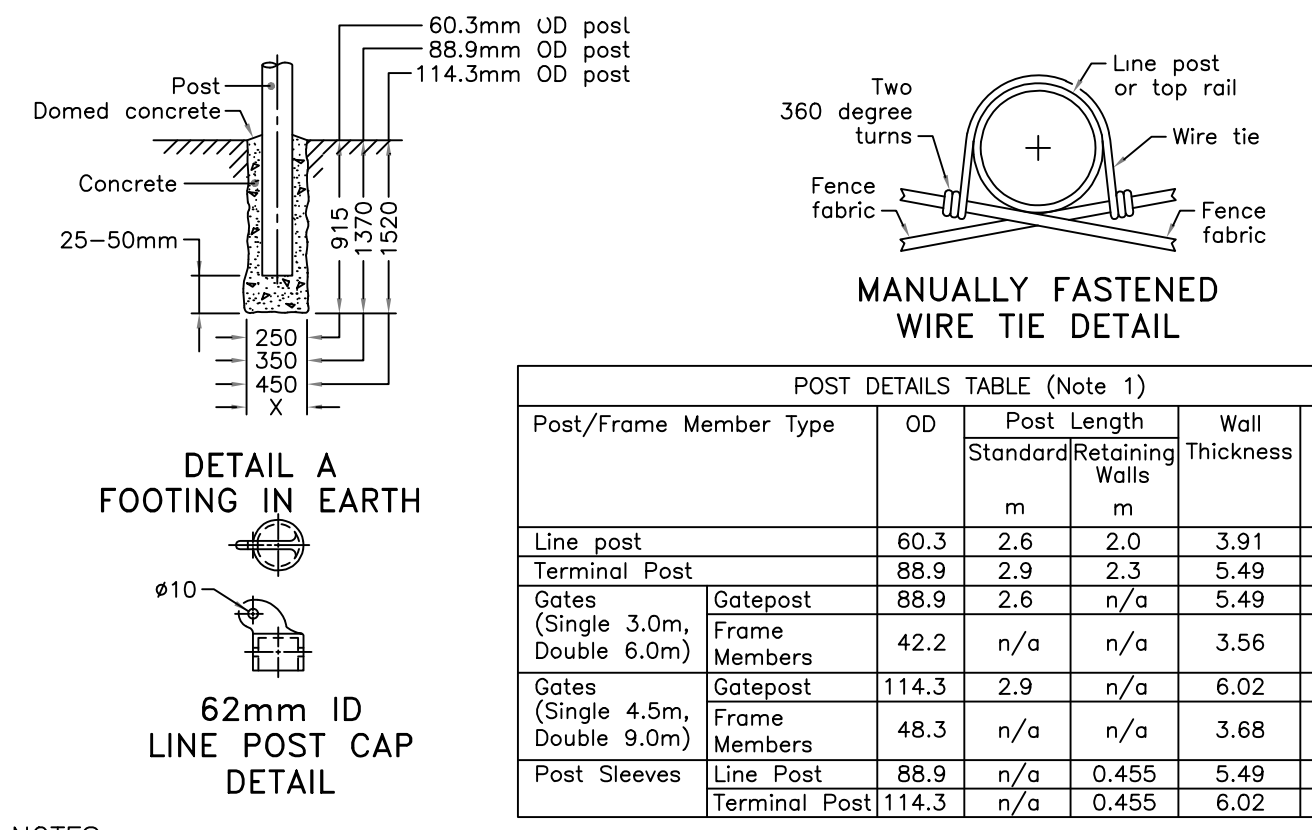
KEY PLAN





NOTES:
 1. FOR FOOTING DETAILS AND LINE POST CAP DETAIL REFER TO OPSD 972.132.
 2. FENCE AS VIEWED FROM ROADWAY
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2	
FENCE, CHAIN-LINK INSTALLATION - ROADWAY	OPSD 972.130		

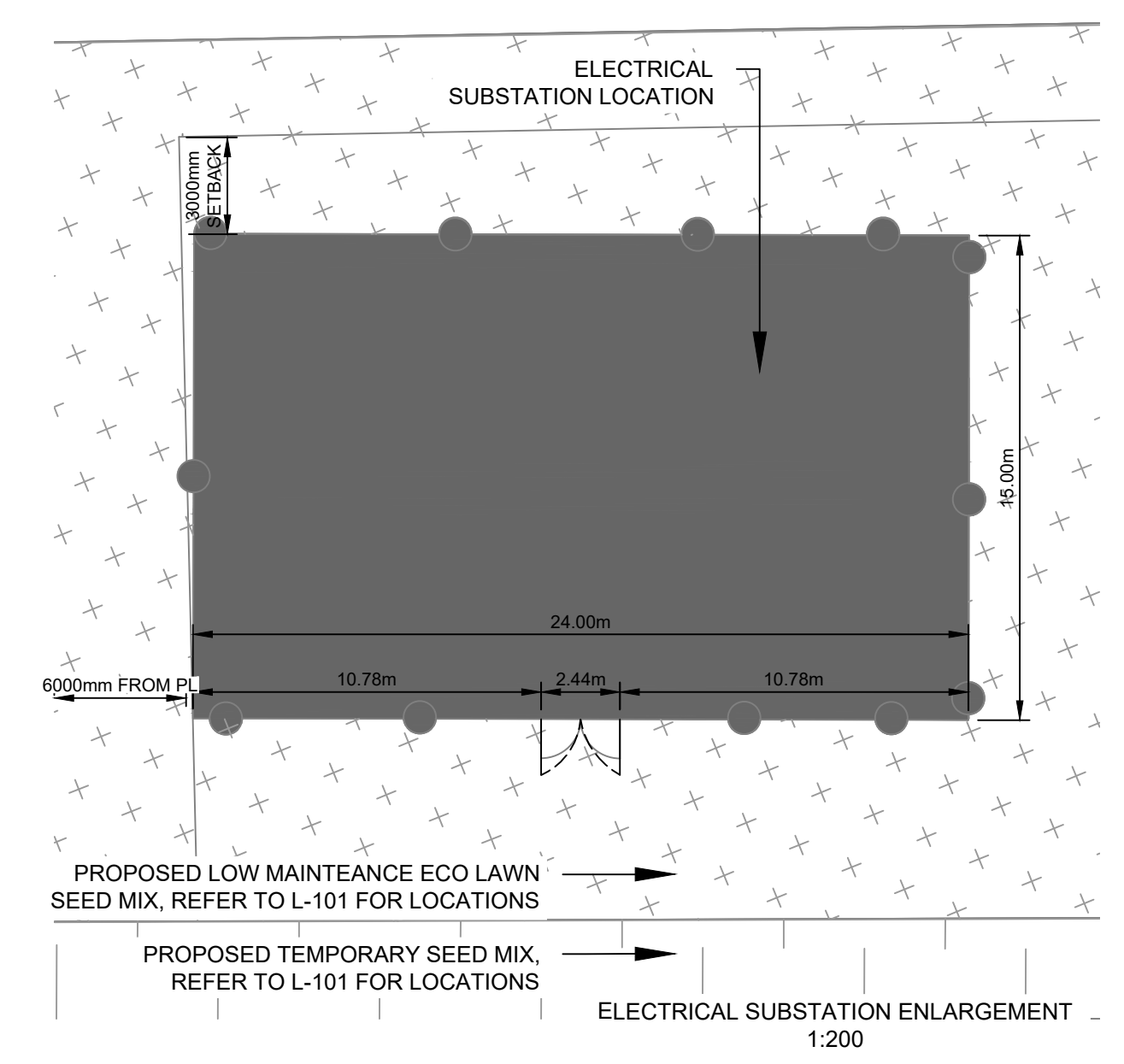


NOTES:
 1. ALL POSTS AND FRAME MEMBERS ARE SCHEDULE 40, REGULAR GRADE, STEEL PIPE.
 2. THE ACTUAL WEIGHT SHALL NOT VARY BY MORE THAN 10% OF THE NOMINAL WEIGHT.
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

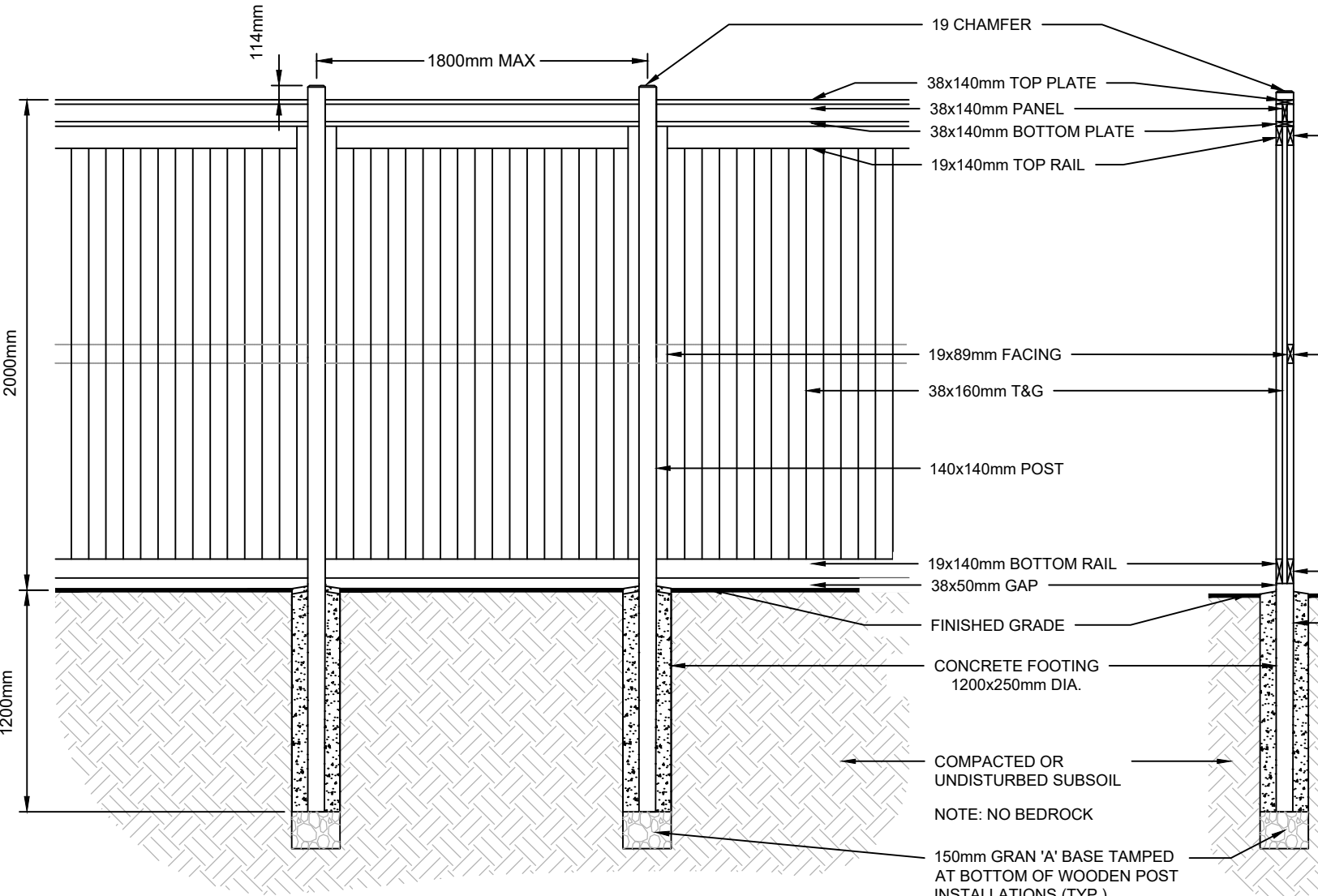
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 0	
FENCE, CHAIN-LINK DETAILS AND TABLE	OPSD 972.132		

POST DETAILS TABLE (Note 1)

Post/Frame Member Type	OD	Post Length Standard	Post Length Retaining Walls	Wall Thickness	Nominal Weight kg/m (Note 2)	
Line post	60.3	2.6	2.0	3.91	5.4	
Terminal Post	88.9	2.9	2.3	5.49	11.3	
Gates (Single 3.0m, Double 6.0m)	Gatepost	88.9	2.6	n/a	5.49	11.3
	Frame Members	42.2	n/a	n/a	3.56	3.4
Gates (Single 4.5m, Double 9.0m)	Gatepost	114.3	2.9	n/a	6.02	16.1
	Frame Members	48.3	n/a	n/a	3.68	4.0
Post Sleeves	Line Post	88.9	n/a	0.455	5.49	11.3
	Terminal Post	114.3	n/a	0.455	6.02	16.1

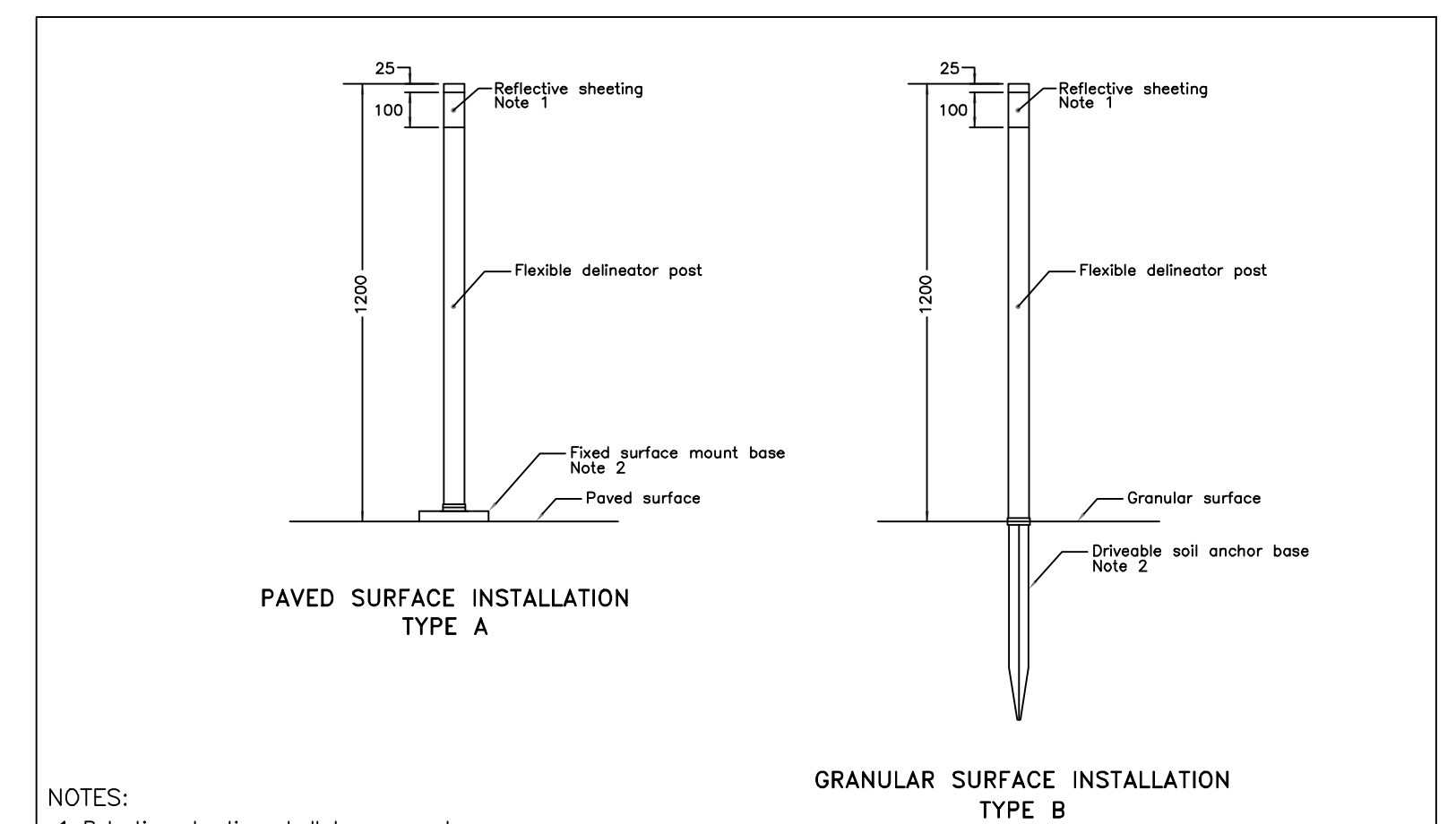


D1 CHAIN LINK FENCE
 L103 N.T.S. SCREENED SNOW STORAGE AREA AND ELECTRICAL SUBSTATION LOCATION



SPECIFICATIONS:
 1. ALL WOOD TO BE NO. 1 CONSTRUCTION GRADE CEDAR AND INSPECTED TO ENSURE IT IS FREE OF EXCESSIVE CHIPS, CRACKS, WARPS OR KNOTS.
 2. ALL FASTENERS AND SPIKES TO BE HOT DIPPED GALVANIZED.
 3. ALL WOOD TO BE COATED WITH TWO COATS OF SEMI-TRANSPARENT STAIN. COLOUR TO BE APPROVED BY LANDSCAPE ARCHITECT.
 4. CONCRETE FOOTING TO BE NO HIGHER THEN 25MM ABOVE GRADE.

D2 2.0m HT WOOD SCREEN FENCE
 L-103 1:25 GARBAGE SCREEN FENCE

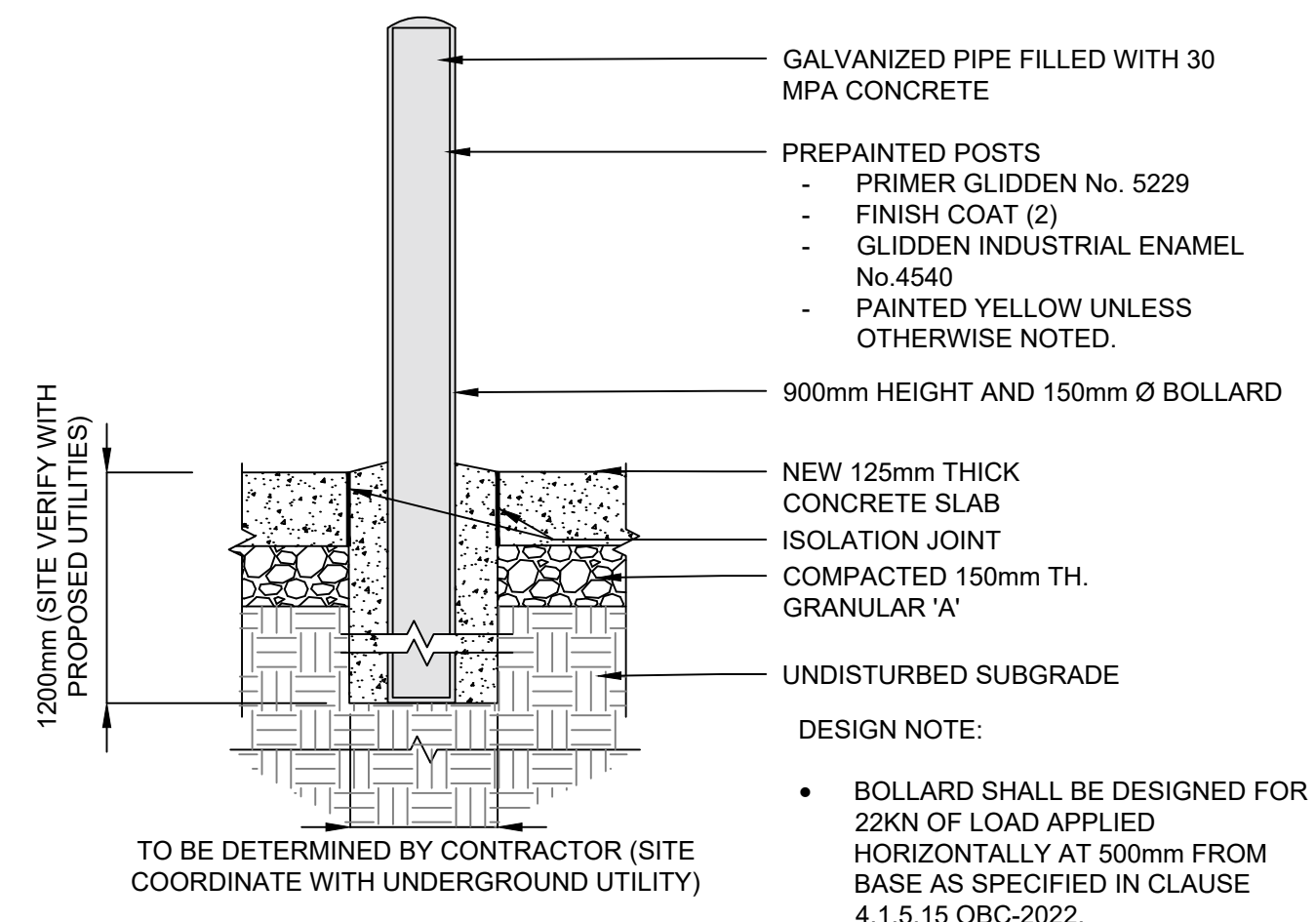


NOTES:
 1. Reflective sheeting shall be wrapped fully around the post.
 2. Base shall be installed according to the manufacturer's specifications and installation instructions.
 A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev 0	
FLEXIBLE DELINEATOR POST INSTALLATION - TEMPORARY AND PERMANENT	OPSD 984.105		

D4 FLEXIBLE DELINEATOR POST
 L103 N.T.S.

D3 BOLLARD FOOTING DETAIL
 L103 1:20



PROJECT
NEWCOLD GUELPH - T001
 GUELPH, ONTARIO

CLIENT

CONSULTANT
 AECOM Canada Ltd.
 50 Sportsworld Crossing Road, Suite 290
 Kitchener, Ontario, N2P 0A4
 519 650 5313 tel 519 650 3424 fax
 www.aecom.com

NOTE:
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 CULVERT BEDDING PER ROP STD DWG 5-2-16

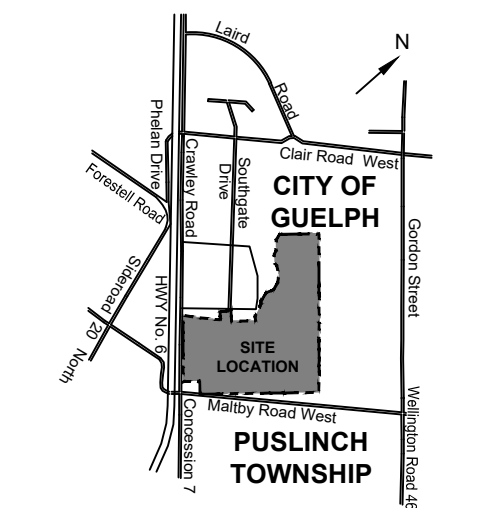
REGISTRATION



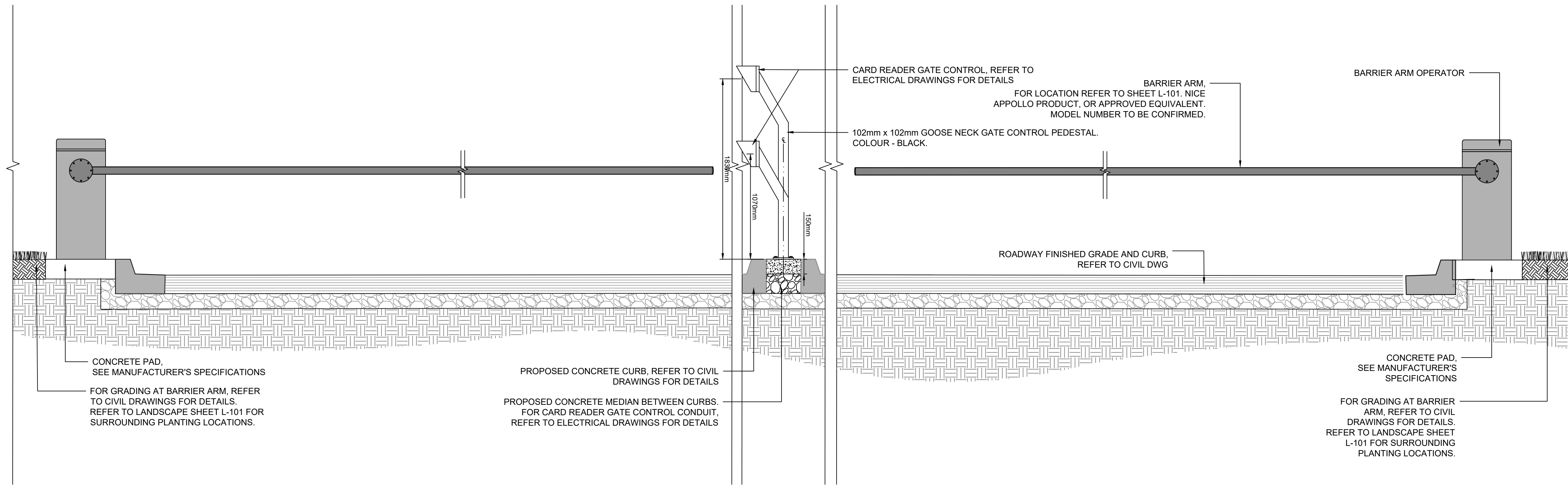
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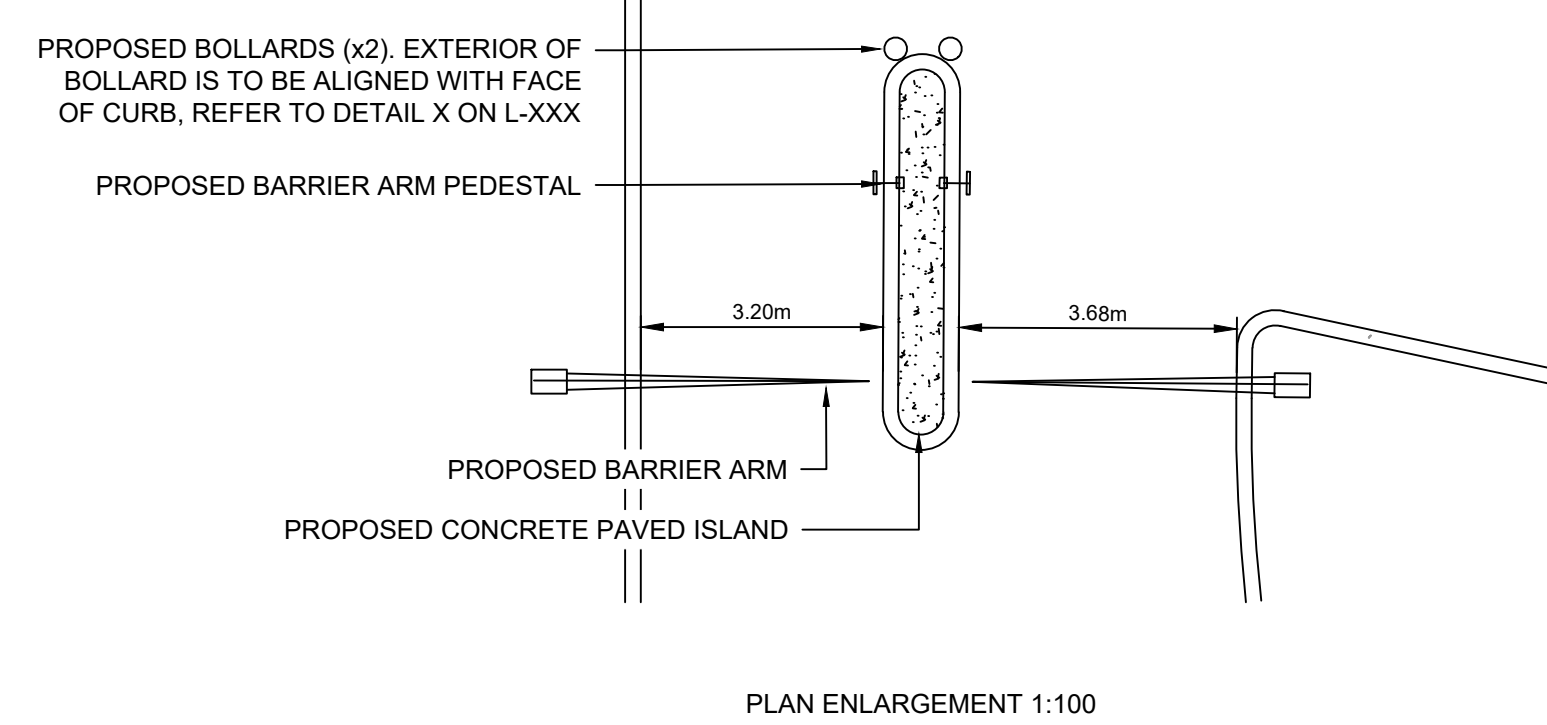
KEY PLAN



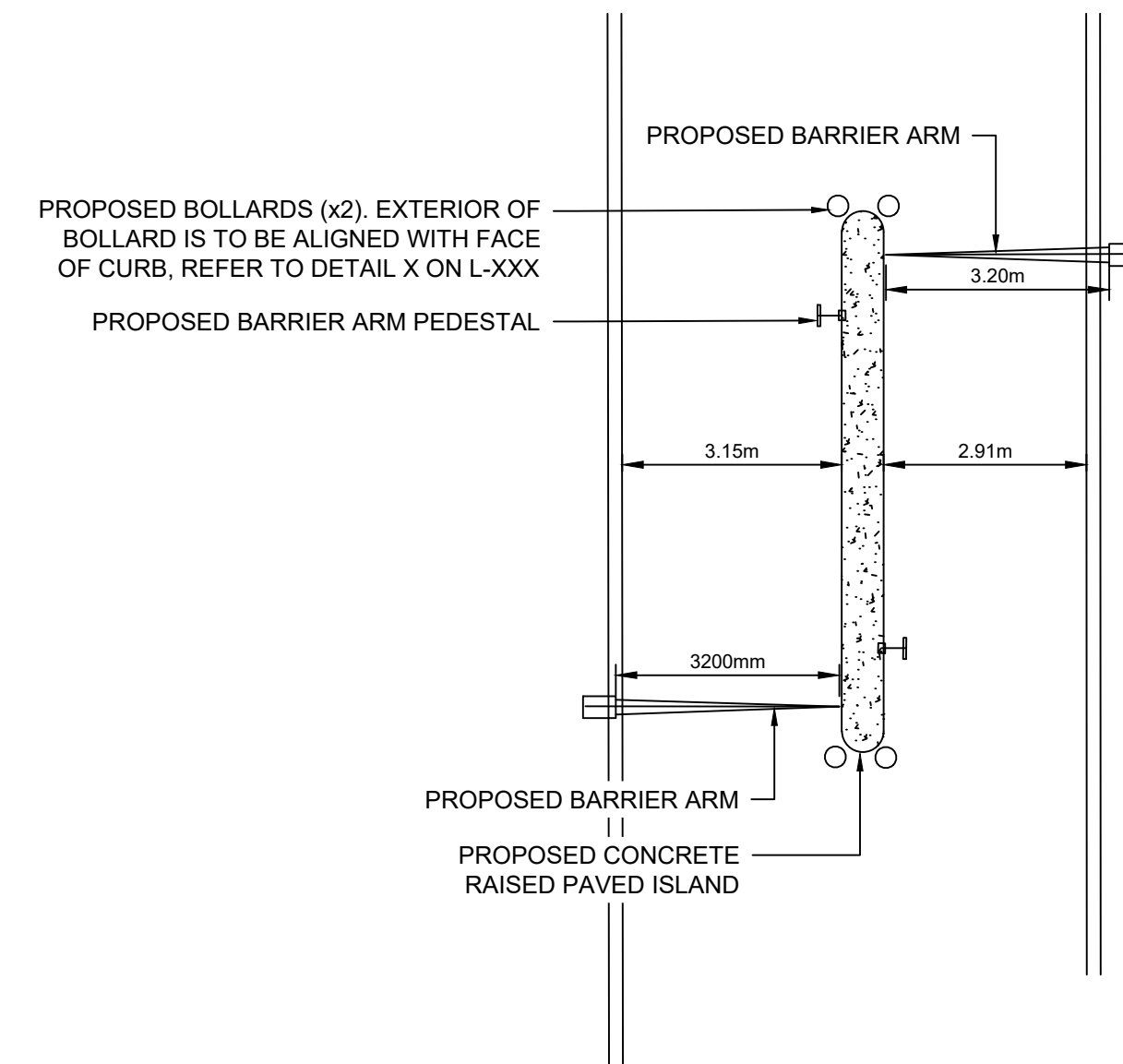
PROJECT NUMBER
 60682143
 SHEET TITLE
 LANDSCAPE DETAILS
 SHEET NUMBER
 L103



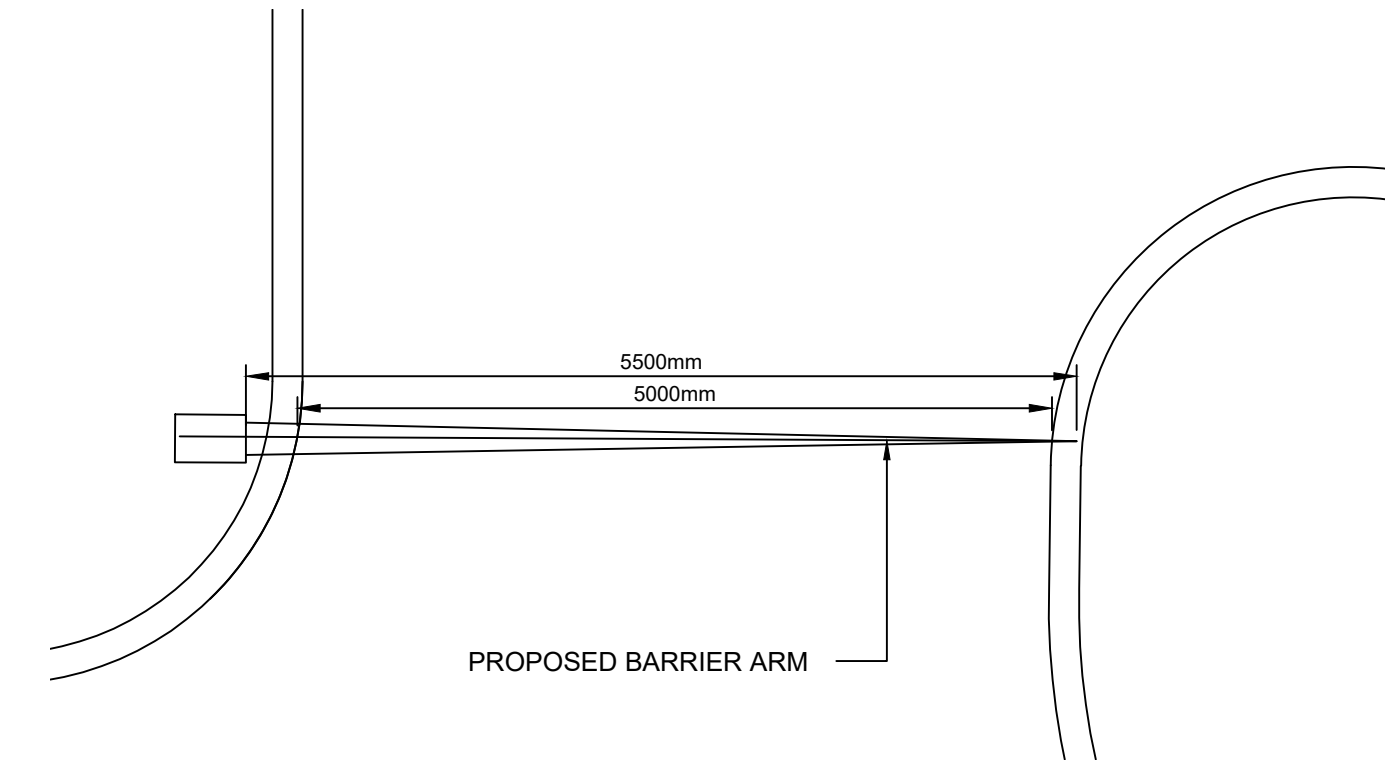
D1 BARRIER ARM LIFT GATE
L104 1:25



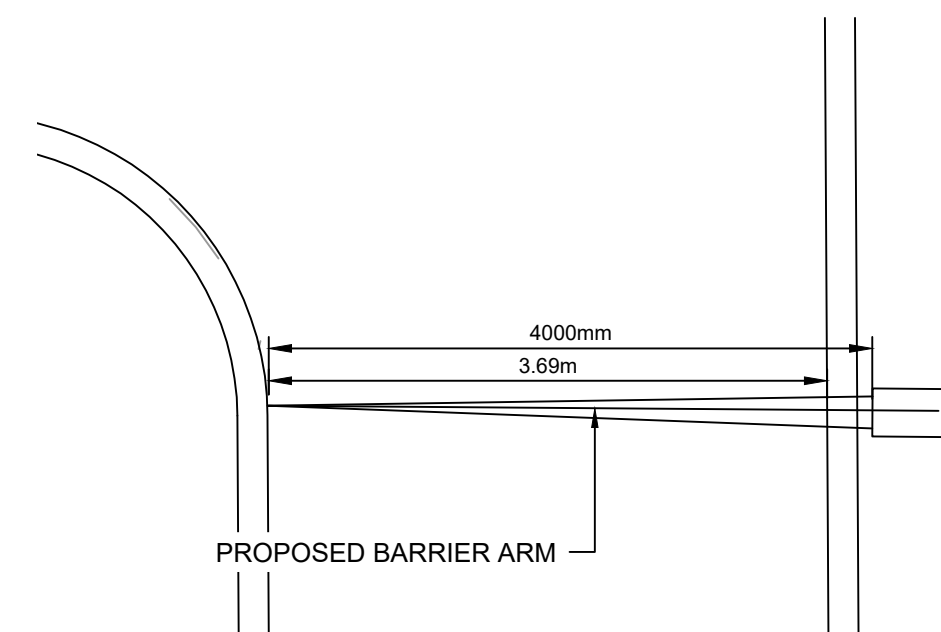
D2 BARRIER ARM LIFT GATE
L104 1:100 DOUBLE TRUCK ENTRANCE FROM SOUTHGATE DRIVE SOUTH



D3 BARRIER ARM LIFT GATE
L104 1:100 VEHICULAR ENTRANCE FROM CRAWLEY ROAD



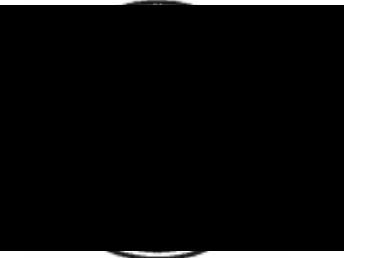
D4 BARRIER ARM LIFT GATE
L104 1:100 INTERIOR TRUCK ENTRANCE



D5 BARRIER ARM LIFT GATE
L104 1:100 INTERIOR TRUCK EXIT

4 M5BAR/L5BAR Models, AC with Solar Option Available

	M5BAR	M7BAR
Arm Length Max.	10 to 16 ft (3 to 5m)	16 to 23 ft (5 to 7m)
Field Adjustable Open/Close Time	3-6 seconds	6-10 seconds
Full Open Angle	Adjustable to 90 degrees (recommended to limit to 87 degrees)	
Ingress Protection	IP44	
Handling	Universal: field adaptable for left hand or right hand installations	
Arm Design	Aluminum arm with red adhesive reflector and optional lights/bumper strips	
Duty Cycle	350 cycles/hr	200 cycles/hr
Drive	Electromechanical	
Operating Voltage	24VDC	
Input Voltage	120VAC 60/50Hz	
Idle Current	1.1mA	1.1mA
Temperature Rating	-4 to 122 F (-20 to 50 C)	
Communication	Optional Oview programmer, OVBT	
User Controls	BCU1 Control Board	
Relays	4 programmable voltage outputs	
Finish	Cataphoretic coating and paint finish	
ETL Listed (UL 325)	Usage Class I, II, III, IV	
Cycle Tested	1 million cycles	
Warranty	2 years	



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