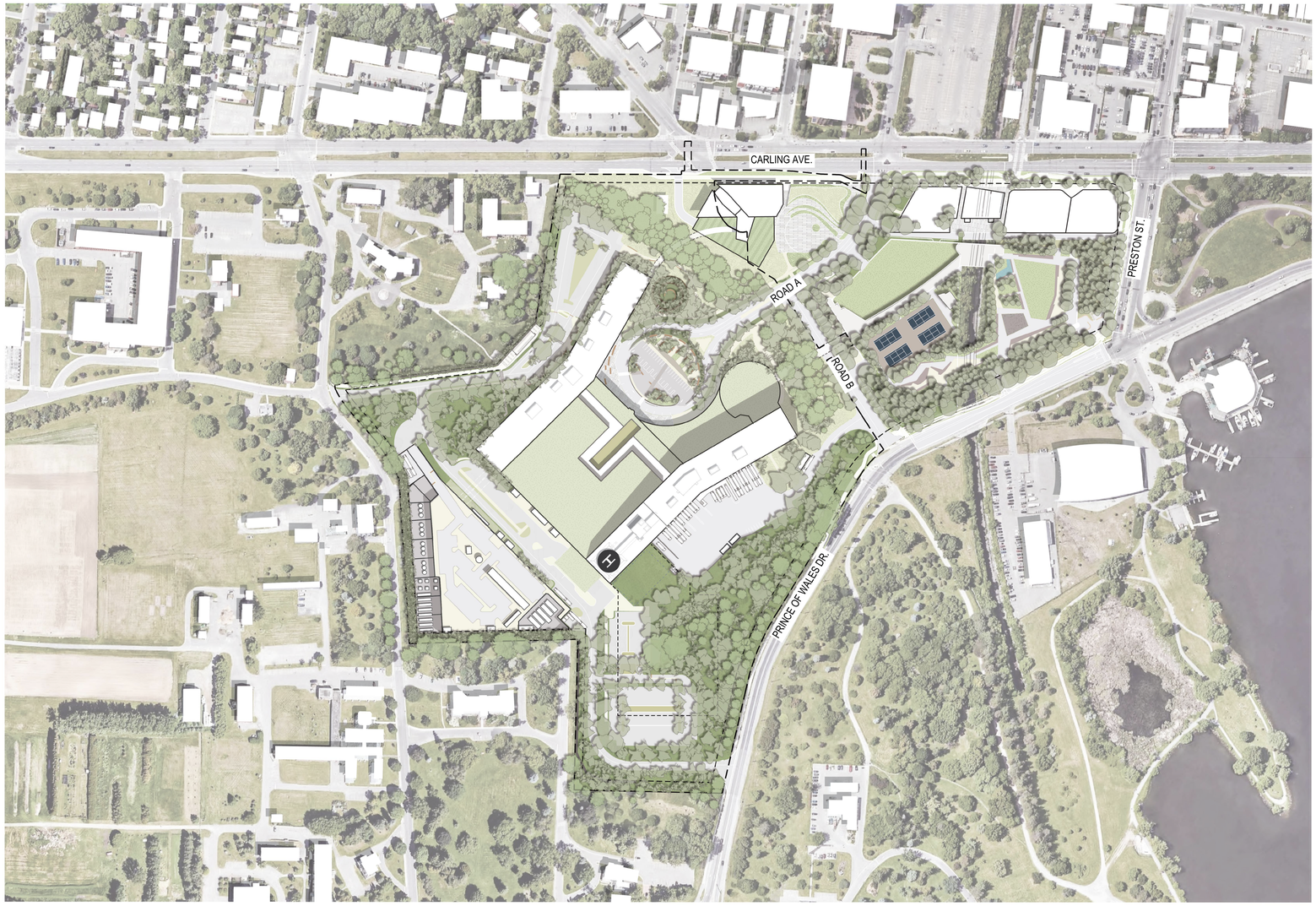
THE OTTAWA HOSPITAL



SHEET NUMBER	SHEET NAME
L-2.2.2.000	ILLUSTRATIVE SITE PLAN / INDEX OF DRAWINGS
L-2.2.2.001	OVERALL SITE PLAN
L-2.2.2.002	ORIENTATION PLAN
L-2.2.2.101	TREE PRESERVATION AND REMOVAL PLAN
L-2.2.2.102	LANDSCAPE TREE PRESERVATION DETAIL
L-2.2.2.103	CLEAN EQUIPMENT PROTOCOL
L-2.2.2.200	EXISTING TOPOGRAPHY PLAN
L-2.2.2.201	OVERALL GRADING PLAN
L-2.2.2.202	GRADING PLAN ENLARGEMENT
L-2.2.2.203	GRADING PLAN ENLARGEMENT
L-2.2.2.203.1	GRADING PLAN ENLARGEMENT
L-2.2.2.204	GRADING PLAN ENLARGEMENT
L-2.2.2.205	GRADING PLAN ENLARGEMENT
L-2.2.2.206	GRADING PLAN ENLARGEMENT
L-2.2.2.302	SITE LAYOUT ENLARGEMENT
L-2.2.2.303	SITE LAYOUT ENLARGEMENT
L-2.2.2.303.1	SITE LAYOUT ENLARGEMENT
L-2.2.2.304	SITE LAYOUT ENLARGEMENT
L-2.2.2.305	SITE LAYOUT ENLARGEMENT
L-2.2.2.306	SITE LAYOUT ENLARGEMENT
L-2.2.2.401	OVERALL SITE MATERIALS PLAN
L-2.2.2.402	SITE MATERIALS ENLARGEMENT
L-2.2.2.403	SITE MATERIALS ENLARGEMENT
L-2.2.2.404	SITE MATERIALS ENLARGEMENT
L-2.2.2.405	SITE MATERIALS ENLARGEMENT
L-2.2.2.406	SITE MATERIALS ENLARGEMENT
L-2.2.2.451	CONTEMPLATION GARDEN ENLARGEMENT
L-2.2.2.452	MAIN ENTRY ENLARGEMENT
L-2.2.2.453	SUNKEN GARDEN ENLARGEMENT
L-2.2.2.501	SITE SECTIONS
L-2.2.2.502	SITE SECTIONS
L-2.2.2.503	SITE SECTIONS
L-2.2.2.504	SITE SECTIONS
L-2.2.2.601	SITE DETAILS
L-2.2.2.700	MASTER PLANT LISTS
L.2.2.2.701	SCHEMATIC PLANT LIST
L-2.2.2.801	OVERALL PLANTING PLAN
L-2.2.2.802	PLANTING PLAN ENLARGEMENT
L-2.2.2.803	PLANTING PLAN ENLARGEMENT
L-2.2.2.804	PLANTING PLAN ENLARGEMENT
L-2.2.2.805	PLANTING PLAN ENLARGEMENT
L-2.2.2.806	PLANTING PLAN ENLARGEMENT
L-2.2.2.851	GREEN ROOF OVERALL PLAN
L-2.2.2.852	GREEN ROOF PLAN ENLARGEMENT
L-2.2.2.853	GREEN ROOF PLAN ENLARGEMENT
L-2.2.2.854	LIGHTWELL INTENSIVE GREEN ROOF PLAN
L-2.2.2.901	OVERALL IRRIGATION PLAN
L-2.2.2.951	PLANTING DETAILS

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

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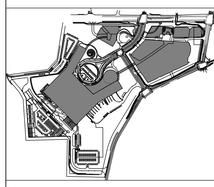

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339862
Original Issue	04/21/22

Sheet Name

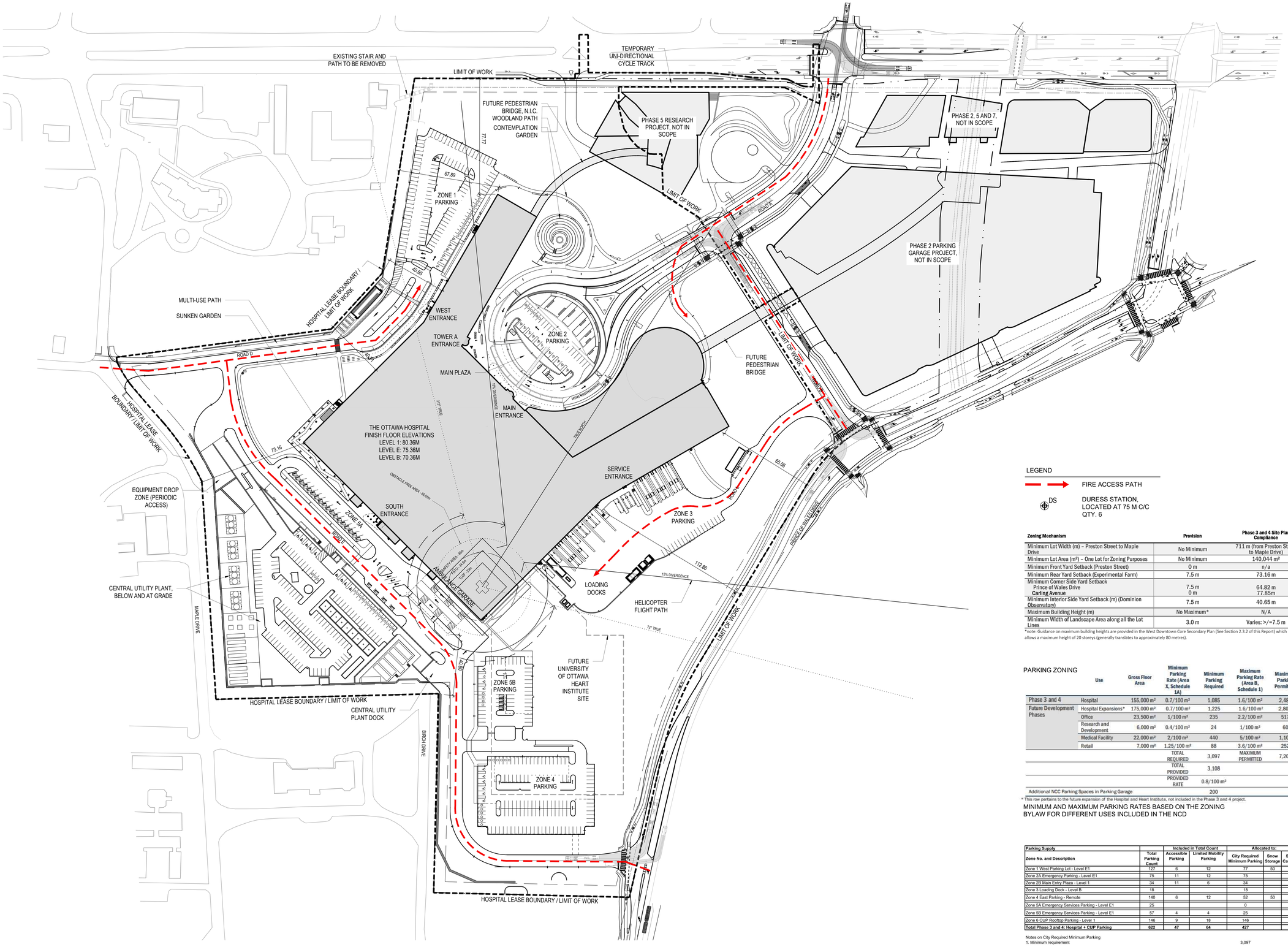
LANDSCAPE INDEX OF DRAWINGS

Sheet Number

L-2.2.2.000

Project Status

STAGE 3



LEGEND

FIRE ACCESS PATH

DS — DURESS STATION, LOCATED AT 75 M C/C QTY. 6

Zoning Mechanism	Provision	Phase 3 and 4 Site Plan Compliance
Minimum Lot Width (m) – Preston Street to Maple Drive	No Minimum	711 m (from Preston Street to Maple Drive)
Minimum Lot Area (m²) – One Lot for Zoning Purposes	No Minimum	140,044 m²
Minimum Front Yard Setback (Preston Street)	0 m	n/a
Minimum Rear Yard Setback (Experimental Farm)	7.5 m	73.16 m
Minimum Corner Side Yard Setback Prince of Wales Drive Carling Avenue	7.5 m 0 m	64.82 m 77.85m
Minimum Interior Side Yard Setback (m) (Dominion Observatory)	7.5 m	40.65 m
Maximum Building Height (m)	No Maximum *	N/A
Minimum Width of Landscape Area along all the Lot Lines	3.0 m	Varies: >/=7.5 m

*note: Guidance on maximum building heights are provided in the West Downtown Core Secondary Plan (See Section 2.3.2 of this Report) which allows a maximum height of 20 storeys (generally translates to approximately 80 metres).

PARKING ZONING

	Use	Gross Floor Area	Minimum Parking Rate (Area X, Schedule 1A)	Minimum Parking Required	Maximum Parking Rate (Area B, Schedule 1)	Maximum Parking Permitted
Phase 3 and 4	Hospital	155,000 m²	0.7/100 m²	1,085	1.6/100 m²	2,480
Future Development Phases	Hospital Expansions*	175,000 m²	0.7/100 m²	1,225	1.6/100 m²	2,800
	Office	23,500 m²	1/100 m²	235	2.2/100 m²	517
	Research and Development	6,000 m²	0.4/100 m²	24	1/100 m²	60
	Medical Facility	22,000 m²	2/100 m²	440	5/100 m²	1,100
	Retail	7,000 m²	1.25/100 m²	88	3.6/100 m²	252
			TOTAL REQUIRED	3,097	MAXIMUM PERMITTED	7,209
			TOTAL PROVIDED	3,108		
			PROVIDED RATE	0.8/100 m²		
Additional NCC Parking Spaces in Parking Garage				200		

* This row pertains to the future expansion of the Hospital and Heart Institute, not included in the Phase 3 and 4 project.

MINIMUM AND MAXIMUM PARKING RATES BASED ON THE ZONING BYLAW FOR DIFFERENT USES INCLUDED IN THE NCD

Parking Supply		Included in Total Count		Allocated to:		
Zone No. and Description	Total Parking Count	Accessible Parking	Limited Mobility Parking	City Required Minimum Parking	Snow Storage	Surge Capacity
Zone 1 West Parking Lot - Level E1	127	6	12	77	50	
Zone 2A Emergency Parking - Level E1	75	11	12	75		
Zone 2B Main Entry Plaza - Level 1	34	11	6	34		
Zone 3 Loading Dock - Level B	18			18		
Zone 4 East Parking - Remote	140	8	12	52	50	38
Zone 5A Emergency Services Parking - Level E1	25			0		
Zone 5B Emergency Services Parking - Level E1	57	4	4	25		32
Zone 6 CUP Rooftop Parking - Level 1	146	9	18	146		
Total Phase 3 and 4: Hospital + CUP Parking	**622**	**47**	**64**	**427**		

Notes on City Required Minimum Parking
1. Minimum requirement

3,097

CITY OF OTTAWA FILE # D07-12-22-0168
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PLAN NORTH — TRUE NORTH

0 — 18.75m — 37.5m — 75m
Scale 1: 750

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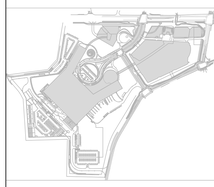

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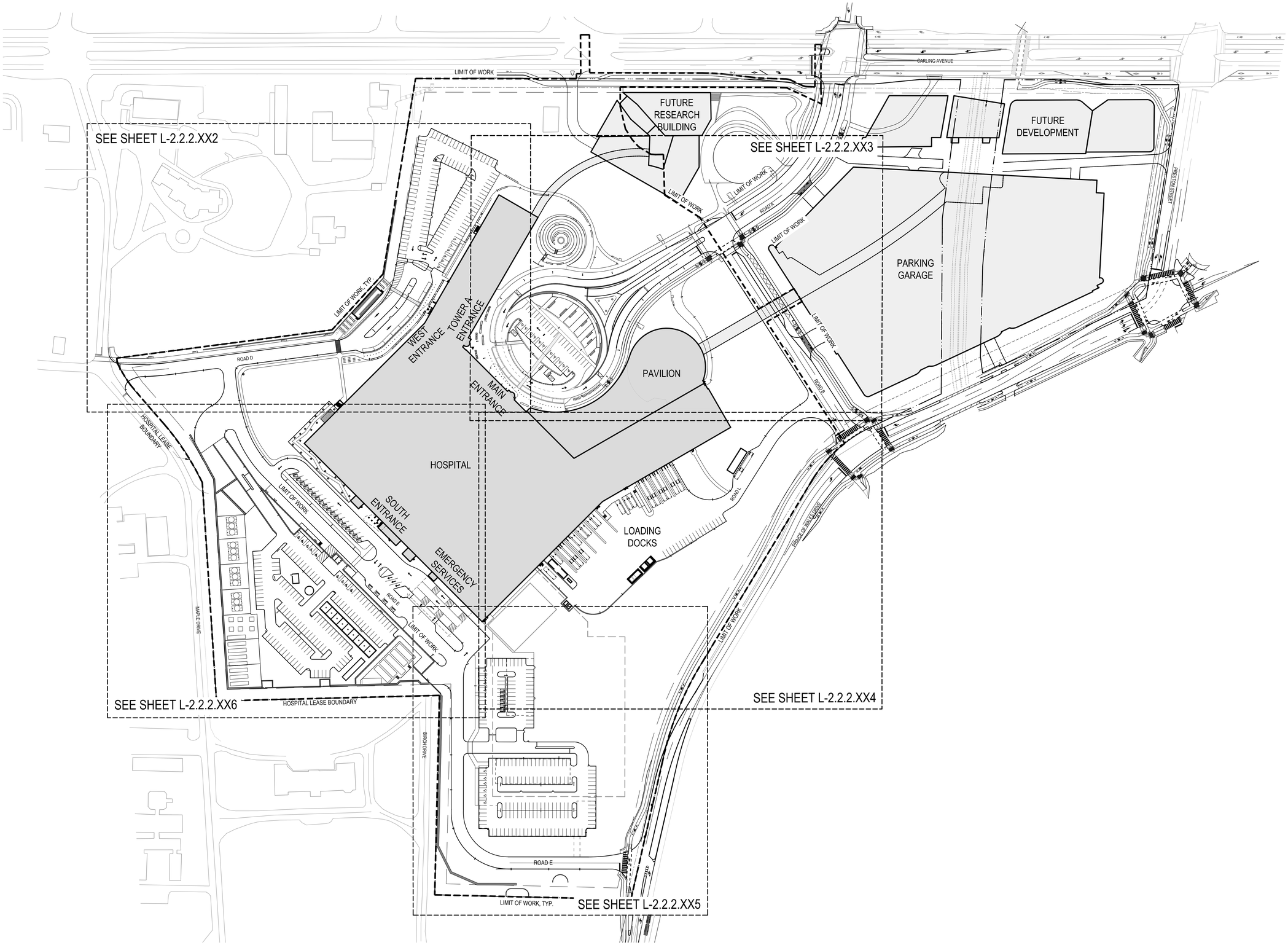
Project Number: 103339982
Original Issue: 04/21/22

Sheet Name
OVERALL SITE PLAN

Sheet Number
L-2.2.2.001

Project Status
STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
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PLAN NORTH
TRUE NORTH

0 18.75m 37.5m 75m
Scale 1: 750

HDR

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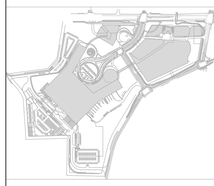

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Project Number	103339882
Original Issue	04/21/22

Sheet Name

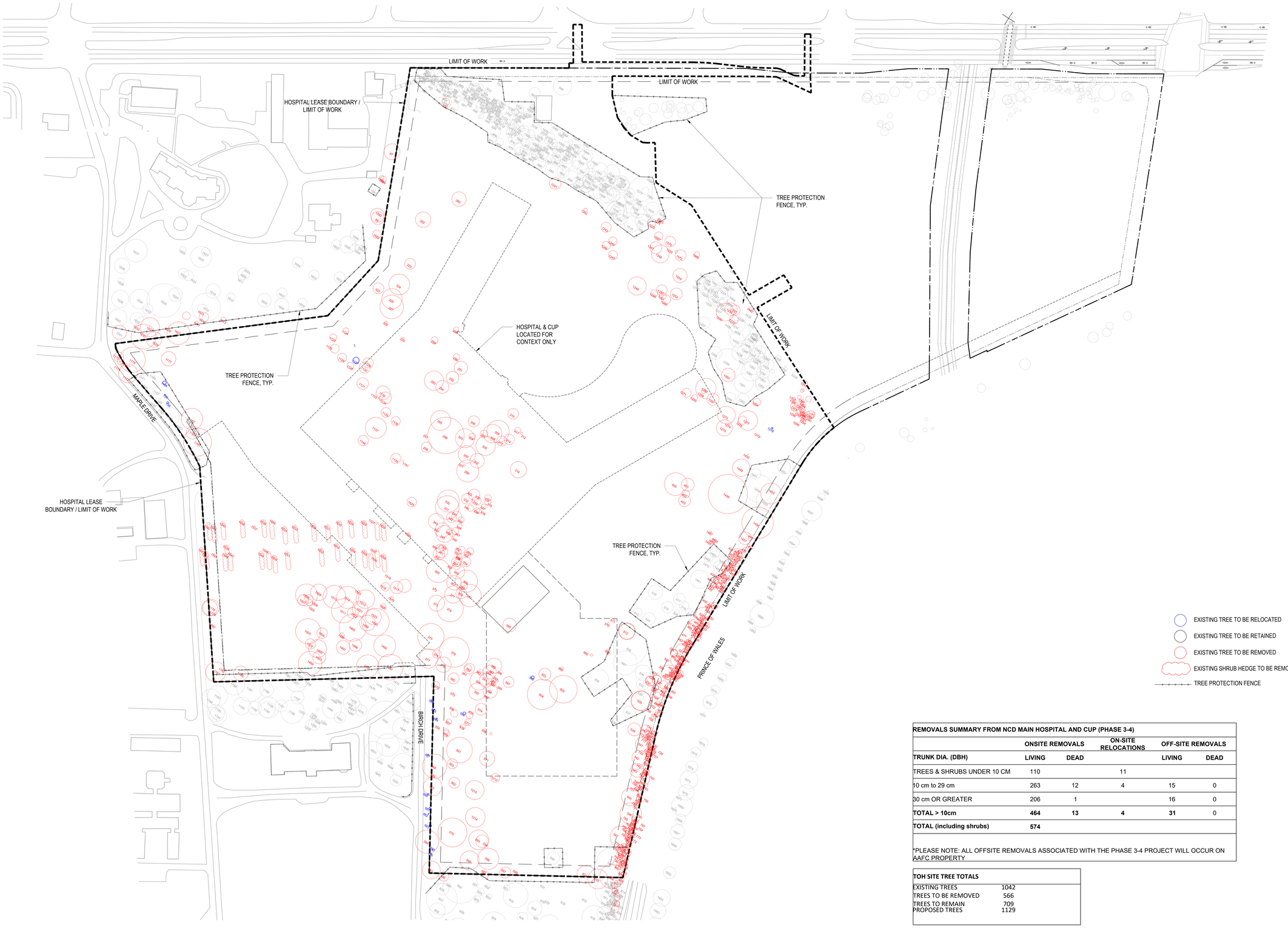
ORIENTATION PLAN

Sheet Number

L-2.2.2.002

Project Status

STAGE 3



EXISTING TREE TO BE RELOCATED
EXISTING TREE TO BE RETAINED
EXISTING TREE TO BE REMOVED
EXISTING SHRUB HEDGE TO BE REMOVED
TREE PROTECTION FENCE

REMOVALS SUMMARY FROM NCD MAIN HOSPITAL AND CUP (PHASE 3-4)					
	ONSITE REMOVALS		ON-SITE RELOCATIONS	OFF-SITE REMOVALS	
TRUNK DIA. (DBH)	LIVING	DEAD		LIVING	DEAD
TREES & SHRUBS UNDER 10 CM	110		11		
10 cm to 29 cm	263	12	4	15	0
30 cm OR GREATER	206	1		16	0
TOTAL > 10cm	**464**	**13**	**4**	**31**	0
TOTAL (including shrubs)	**574**				

*PLEASE NOTE: ALL OFFSITE REMOVALS ASSOCIATED WITH THE PHASE 3-4 PROJECT WILL OCCUR ON AAFC PROPERTY

TOH SITE TREE TOTALS	
EXISTING TREES	1042
TREES TO BE REMOVED	566
TREES TO REMAIN	709
PROPOSED TREES	1129

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TRUE NORTH

0 18.75m 37.5m 75m
Scale 1: 750

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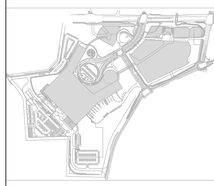

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Project Number	103339862
Original Issue	04/21/22

Sheet Name
TREE PRESERVATION AND REMOVAL PLAN

Sheet Number
L-2.2.2.101

Project Status
STAGE 3

TREE PROTECTION AND PRUNING

MONITORING OF TREE PROTECTION MEASURES

MONITORING OF THE PROTECTED VEGETATION AREAS WILL BE CARRIED OUT UNDER THE DIRECTION OF A CERTIFIED ARBORIST/REGISTERED PROFESSIONAL FORESTER. THE MONITORING WILL BE IMPLEMENTED DURING ACTIVE CONSTRUCTION PERIODS FOR THE DEVELOPMENT WITH THE FOLLOWING FREQUENCY:

- ON A WEEKLY BASIS, AND/OR
- AFTER EVERY 10 MM OR GREATER RAINFALL EVENT, AND/OR
- DURING PERIODS OF AGRICULTURAL DROUGHT

PROTECTED VEGETATION AREAS WILL REQUIRE MONITORING AS PER ABOVE TO ENSURE THAT THEY ARE NOT BEING IMPACTED BY THE PROPOSED DEVELOPMENT. SHOULD IMPACTS BE OBSERVED, NECESSARY STEPS WILL BE TAKEN TO ENSURE THAT THE IMPACTED VEGETATION IS EITHER RESTORED OR REPLACED. A RECORD OF THE IMPACT AND MEASURES TAKEN TO CORRECT THE IMPACT WILL BE DOCUMENTED WITHIN 5 BUSINESS DAYS AND WILL BE MADE AVAILABLE TO THE NCC/PSPC UPON REQUEST.

CRITICAL ROOT ZONE AND TREE PROTECTION BARRIER

THE CRITICAL ROOT ZONE (CRZ) IS A DEFINED AREA AROUND AN EXISTING TREE WHEREIN TREE PROTECTION MEASURES SHOULD BE IMPLEMENTED IF SITE DISTURBANCE IS PLANNED WITHIN THE CRZ, OR IF THERE IS A REASONABLE LIKELIHOOD OF INADVERTENT ENCROACHMENT INTO THE CRZ DURING SITE DISTURBANCE. THE CRZ FOR THE CITY OF OTTAWA IS CALCULATED AS 10 CM FROM THE TRUNK OF A TREE FOR EVERY CENTIMETER OF TRUNK DIAMETER.

- THE ARBORIST/FORESTER MAY ADJUST THIS AS REQUIRED BASED ON WHETHER THE TREE IS MULTI-STEMMED, PARTICULARLY SENSITIVE TO ROOT DISTURBANCE, OR CERTAIN SITUATIONS SUCH AS IF THE ROOTS ARE CONSTRAINED BY HARD SURFACES AND THE MAJORITY OF ROOTS WOULD BE EXPECTED TO OCCUR ON THE SIDE WHERE PROTECTION IS REQUIRED.
- TREE PROTECTION MEASURES WILL BE INSPECTED DURING A WALKTHROUGH BY CITY OF OTTAWA AND NCC FORESTRY STAFF IN ADVANCE OF TREE REMOVALS. WHERE CONSTRUCTION ACTIVITIES ARE REQUIRED WITHIN THE CRZ OF A RETAINED TREE, PROTECTION MEASURES THAT MAY BE CONSIDERED ON A CASE-BY-CASE BASIS INCLUDE PLACING METAL PLATES OR A 20 CM DEEP LAYER OF COARSE MULCH OVERLAIN BY LARGE SHEETS OF ¾" OR GREATER THICKNESS PLYWOOD, IN ORDER TO DISTRIBUTE PRESSURE AND AVOID SOIL COMPACTION AND ONLY UNDER THE GUIDANCE OF AN ARBORIST/FORESTER. FOLLOWING COMPLETION OF ACTIVITY IN THE AREA, THE MULCH SHOULD BE SPREAD TO BETWEEN 8-10 CM THICK AROUND THE BASE OF THE TREE.

THE TREE PROTECTION BY-LAW REQUIRES THAT ANYONE WORKING NEAR PROTECTED TREES MUST, UNLESS OTHERWISE AUTHORIZED BY THE CITY:

- ERECT A 1.2 M HIGH FENCE AROUND THE OUTER EDGE OF THE CRITICAL ROOT ZONE CRZ OF TREES PRIOR TO BEGINNING OTHER SITE WORK, AND MAINTAIN THE FENCE UNTIL THE WORK IS COMPLETE;
- NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRZ OF THE TREE;
- NOT RAISE OR LOWER THE EXISTING GRADE WITHIN THE CRZ OF A TREE;
- NOT EXTEND ANY HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING WITHIN THE CRZ OF A TREE;
- NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE, EXCEPT AS REQUIRED BY THIS BY-LAW FOR TREES TO BE REMOVED;
- NOT DAMAGE THE ROOT SYSTEM, TRUNK OR BRANCHES OF ANY TREE; AND
- ENSURE THAT EXHAUST FUMES FROM EQUIPMENT ARE NOT DIRECTED TOWARDS ANY TREE'S CANOPY.

TREE RELOCATION

treeorshrub	TreeID	Common	Botanical	DBH	CRZ	Condition2022	Stems	Cultivar
Tree_single_stem	502	Japanese Lilac	Syringa reticulata	10	1	2:_Good	1	
Tree_single_stem	554	Mountain Ash sp.	Sorbus sp.	9	0.9	2:_Good	1	
Shrub_Grouping	564	Lilac sp.	Syringa sp.	5	0.5	Shrubs	1	
Shrub_Grouping	565	Lilac sp.	Syringa sp.	3	0.3	Shrubs	1	
Tree_single_stem	566	Korean Mountain-ash	Sorbus alnifolia	6	0.6	2:_Good	1	
Tree_single_stem	567	Lilac sp.	Syringa x	4	0.4	2:_Good	1	'Dixie'
Tree_single_stem	580	Eastern White Pine	Pinus strobus	6	0.6	2:_Good	1	
Tree_single_stem	581	Red Maple	Acer rubrum	7	0.7	2:_Good	1	
Tree_single_stem	582	Lilac sp.	Syringa x	3	0.3	2:_Good	1	'Sarah Santis'
Tree_single_stem	583	Eastern White Pine	Pinus strobus	8	0.8	2:_Good	1	
Shrub	585	Lilac sp	Syringa sp.	3	0.3	Shrubs	1	
Shrub	586	Lilac sp	Syringa sp.	3	0.3	Shrubs	1	
Tree_single_stem	1127	Katsura	Cercidiphyllum japonicum	21	2.1	2:_Good	1	
Tree_single_stem	1278	White Spruce	Picea glauca	5	0.5	1:_Excellent	1	
Tree_single_stem	1279	Douglas Fir	Pseudotsuga menziesii	6	0.6	2:_Good	1	

- A QUALIFIED TREE RELOCATION EXPERT MUST BE RETAINED BY THE CONTRACTOR TO CARRY OUT THE RELOCATION OF 15 IDENTIFIED TREES AND SHRUBS (11 TREES AND 4 SHRUBS) IN SPRING 2022.
  - ALL TREES TO BE RELOCATED WILL BE IDENTIFIED ON SITE WITH AN INFORMATIVE TAG AND WILL BE REVIEWED DURING A SITE WALKTHROUGH
  - THE TREE RELOCATION EXPERT WILL CONDUCT A SITE VISIT IN ADVANCE OF TREE REMOVALS TO CONFIRM THE SUITABILITY OF EACH TREE IDENTIFIED FOR RELOCATION AND IF ANY ADDITIONAL TREES MAY BE SUITABLE, THEY WILL ALSO BE IDENTIFIED AT THIS TIME.
    - ONCE RELOCATIONS HAVE BEEN CONFIRMED, THE TOTAL TREE REMOVALS WILL BE UPDATED BY THE PROJECT ARBORIST, AND THE TREE CUTTING PERMIT WILL BE UPDATED.
  - THE TREE RELOCATION EXPERT, IN COORDINATION WITH ALL OTHER PROPONENTS, WILL REVIEW THE RECOMMENDED DESTINATION FOR THE TREES TO BE RELOCATED TO ENSURE SITE SUITABILITY AND ACCESS. THIS SHOULD BE DONE AT THE SAME TIME AS THE SITE VISIT TO IDENTIFY THE POTENTIAL TREES TO BE RELOCATED.
    - IF ANY LOCATIONS ARE DETERMINED TO BE UNSUITABLE, OR IF ADDITIONAL LOCATIONS ARE REQUIRED, NEW LOCATIONS WILL BE PROVIDED BY THE PROJECT LANDSCAPE TEAM AND CONFIRMED WITH THE TREE RELOCATION EXPERT.

ROOT PRUNING PRACTICES

ROOT DAMAGE CAN BE MINIMIZED BY RESTRICTING EQUIPMENT IN THE VICINITY OF THE EXISTING TREES AND LIMITING EQUIPMENT AND MATERIALS STORAGE AREA WITHIN PROXIMITY TO RETAINED TREES AND SHRUBS. IN GENERAL, ROOTS 100 MM IN DIAMETER OR LARGER SHOULD BE CONSIDERED STRUCTURAL ROOTS. IF THERE IS ANY QUESTION ABOUT WHETHER A TREE'S STABILITY MAY BE AFFECTED, A QUALIFIED ARBORIST SHOULD BE CONSULTED.

- AIR SPADES OR HYDROVAC SHOULD BE USED WHERE EXPOSURE OF ROOTS IS REQUIRED.
- ROOT PRUNING SHOULD OCCUR PRIOR TO THE START OF CONSTRUCTION TO PREVENT DRYING OUT OF ROOTS, INCREASE ROOT REGENERATION, AND MINIMIZE DAMAGE TO ROOT SYSTEMS DURING CONSTRUCTION. ROOTS SHOULD BE PRUNED TO THE LIMIT OF EXCAVATION AND TO A DEPTH OF 1 M OR THE MAXIMUM DEPTH OF ROOT PENETRATION (WHICHEVER IS GREATER). ALL PRUNING SHOULD BE DONE WITH CLEAN, APPROVED ROOT-PRUNING EQUIPMENT AND UNDER THE SUPERVISION OF A QUALIFIED ARBORIST.
- ANY ROOTS THAT ARE SEVERED DURING CONSTRUCTION SHOULD BE CUT CLEANLY TO MINIMIZE DECAY AND ENTRY POINTS FOR DISEASE. IF ROOTS WILL BE EXPOSED FOR MORE THAN A FEW HOURS, THEY SHOULD BE PROTECTED FROM DRYING WITH THE APPLICATION OF MULCH THAT IS KEPT MOIST (BUT NOT SATURATED).
- PRUNED ROOT ENDS SHALL BE NEATLY AND SQUARELY TRIMMED AND THE AREA SHALL BE BACKFILLED WITH CLEAN NATIVE FILL AS SOON AS POSSIBLE TO PREVENT DRYING AND PROMOTE ROOT GROWTH.
- THE EXPOSED ROOTS SHALL NOT BE ALLOWED TO DRY OUT AND AN APPROPRIATE WATERING SCHEDULE SHALL BE UNDERTAKEN (E.G., WATER BI-WEEKLY TO FIELD CAPACITY BETWEEN JUNE 1ST AND SEPTEMBER 15TH) SO THAT THE ROOTS MAINTAIN OPTIMUM SOIL MOISTURE DURING CONSTRUCTION AND BACKFILLING OPERATIONS.
- MEASURES TO MINIMIZE ROOT LOSS: WHEN IT IS NECESSARY TO EXCAVATE WITHIN THE TREE PROTECTION ZONE OF TREES AND SHRUBS, PRE-CUTTING OF THE ROOTS MUST BE CARRIED OUT IN ORDER TO AVOID LIFTING OR TEARING THE ROOTS. THIS WORKING METHOD CONSISTS OF SLICING THE GROUND AND CUTTING THE ROOTS OF TREES AND SHRUBS, FOR EXAMPLE USING A CONCRETE SAW AND THEN STRIPPING THE GROUND. THE DEPTH OF THE PRE-CUT MUST BE AT LEAST 500 MM. IF ROOTS 50 MM IN DIAMETER OR MORE ARE ENCOUNTERED AT A DEPTH OF MORE THAN 500 MM, THEY SHOULD BE CUT CLEANLY WITH A SHARP TOOL. BACKFILLING MUST BE DONE WITH TOPSOIL TO A DEPTH OF NO MORE THAN 500 MM. AN NCC REPRESENTATIVE OR A CONSULTANT ARBORIST MAY REQUEST THE APPLICATION OF AN ANTI-DESICCANT AGENT TO THE FOLIAGE OR TAKE ANY OTHER MEASURE AIMED AT REDUCING EVAPOTRANSPIRATION. FOR ALL TREES AND SHRUBS WHOSE ROOTS ARE EXPOSED DURING WORK, THE ROOT SYSTEM MUST BE KEPT MOIST TO AVOID DESICCATION AND DEATH OF THE ROOTLETS.

BRANCH PRUNING PRACTICES

THE FOLLOWING ARE STANDARD BMPS FOR BRANCH PRUNING:

- DUE TO THE REMOVAL OF TREES WITHIN THE PROJECT AREA, IS NOT EXPECTED THAT PRUNING WILL BE REQUIRED AT THIS PHASE, HOWEVER IF PRUNING IS REQUIRED, THE CONTRACTOR MUST IDENTIFY ANY PRUNING REQUIREMENTS IN ADVANCE FOR CONFIRMATION WITH THE CITY OF OTTAWA AND THE NCC.
- LIMBS THAT MAY INTERFERE WITH CONSTRUCTION, INCLUDING THOSE THAT MAY OVERHANG THE WORK AREA, SHOULD BE PRUNED UTILIZING BY-PASS SECATEURS BY A QUALIFIED ARBORIST. ALL PRUNING SHALL BE COMPLETED AS PER THE AMERICAN NATIONAL STANDARD (ANSI) A300 (PART 1) - PRUNING (INTERNATIONAL SOCIETY OF ARBORICULTURE 2008).
- ALL LIMBS DAMAGED OR BROKEN DURING CONSTRUCTION SHOULD BE PRUNED CLEANLY, UTILIZING BY-PASS SECATEURS IN ACCORDANCE WITH APPROVED HORTICULTURAL PRACTICES. SHOULD THERE BE A POTENTIAL RISK OF TRANSFER OF DISEASE FROM INFECTED TO NON-INFECTED TREES; TOOLS MUST BE DISINFECTED AFTER PRUNING EACH TREE BY DIPPING IN METHYL HYDRATE. THIS PRACTICE IS PARTICULARLY IMPORTANT DURING PERIODS OF TREE STRESS AND WHEN PRUNING MANY MEMBERS OF THE SAME GENERA, WITHIN WHICH A DISEASE COULD BE SPREAD QUICKLY (I.E., VERTICILLIUM WILT ON MAPLES OR FIREBLIGHT ON GENERA OF THE *ROSACEAE* FAMILY).
- PRUNING CUTS SHOULD BE REDUCTION CUTS WHEREVER POSSIBLE AND MADE TO A GROWING POINT SUCH AS A BUD, TWIG, OR BRANCH OF APPROXIMATELY 1/3 DIAMETER OF THE BRANCH BEING PRUNED.
- REMOVAL CUTS SHOULD NOT EXCEED 10% OF THE TOTAL CUTS MADE ON EACH INDIVIDUAL TREE, AND CUTS SHOULD BE MADE JUST OUTSIDE THE BRANCH COLLAR (THE SWOLLEN AREA AT THE BASE OF THE BRANCH THAT SOMETIMES HAS A BARK RIDGE), AND PERPENDICULAR TO THE BRANCH BEING PRUNED RATHER THAN AS CLOSE TO THE TRUNK AS POSSIBLE. THIS MINIMIZES THE SITE OF THE WOUND. NO STUBS SHOULD BE LEFT. POOR CUT LOCATION, POOR CUT ANGLE AND TORN CUTS ARE NOT ACCEPTABLE.
- EXTENSIVE PRUNING IS BEST COMPLETED BEFORE PLANTS BREAK DORMANCY.
- PRUNING SHOULD BE LIMITED TO THE REMOVAL OF NO MORE THAN 20% OF THE TOTAL BUD AND LEAF BEARING BRANCHES. PRUNING SHOULD INCLUDE THE CAREFUL REMOVAL OF:
  - DEADWOOD
  - BRANCHES THAT ARE WEAK, DAMAGED, DISEASED AND THOSE WHICH WILL INTERFERE WITH CONSTRUCTION ACTIVITY
  - SECONDARY LEADERS OF CONIFERS
  - TRUNK AND ROOT SUCKERS
  - TRUNK WATERSPOUTS
  - TIGHT V-SHAPED OR INCLUDED BARK IN UNIONS
  - SECONDARY OR COMPETING LEADERS TO PROMOTE SINGLE STEM STRUCTURE IN LARGE CANOPY SPECIES

SPECIES AT RISK AND WILDLIFE

BUTTERNUT

BUTTERNUT IS LISTED AS ENDANGERED UNDER THE ESA (*ENDANGERED SPECIES ACT, 2007)* AND THE SARA (*SPECIES AT RISK ACT, 2002*). ONE BUTTERNUT TREE WAS IDENTIFIED WITHIN THE PROJECT AREA, HOWEVER, WAS CONFIRMED TO BE A HYBRID THROUGH GENETIC TESTING . THE HYBRID BUTTERNUT TREE IS LOCATED APPROXIMATELY 90 M FROM THE LIMITS OF CONSTRUCTION ACTIVITY AND IS NOT EXPECTED TO BE IMPACTED. NO PROTECTION IS REQUIRED AT THIS TIME.

WILDLIFE INCLUDING SAR

General Provisions (ADAPTED FROM (https://documents.ottawa.ca/en/files/protocol-wildlife-protection-during-construction [documents.ottawa.ca]))

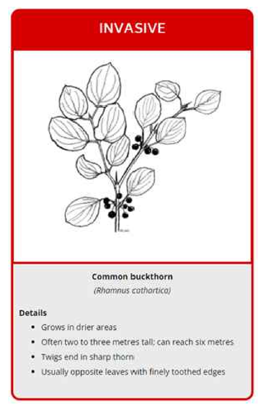
- WATCH OUT FOR WILDLIFE WHILE DRIVING, AND AVOID HITTING THEM, PROVIDED THAT IT IS SAFE TO DO SO.
- PRIOR TO BEGINNING WORK EACH DAY, CHECK FOR WILDLIFE BY CONDUCTING A THOROUGH VISUAL INSPECTION OF THE WORK SPACE AND IMMEDIATE SURROUNDINGS.
- RESTRICT ALL ACTIVITIES, VEHICLES AND MATERIALS TO THE DESIGNATED WORK SPACE. DO NOT DISTURB AREAS IDENTIFIED FOR RETENTION.
- SECURE STOCKPILED MATERIALS, VEHICLES AND STRUCTURES AGAINST WILDLIFE ENTRY.
- EXCLUSION MEASURES SHOULD BE APPLIED AS WARRANTED TO PREVENT NESTING/ROOSTING IN STOCKPILES INCLUDING MULCH PILES OR WITHIN ANY BUILDINGS/STRUCTURES THAT ARE CONSTRUCTED.
- LITTER AND OTHER WASTE MATERIALS MUST BE APPROPRIATELY CONTAINED AND PROMPTLY DISPOSED OF.
- DO NOT FEED ANY WILDLIFE OR LEAVE FOOD OUT WHERE IT COULD ATTRACT THEM.
- AS A GENERAL PRECAUTION, TREE AND VEGETATION REMOVALS (INCLUDING MOWING OF TALL GRASS) SHALL BE CONDUCTED OUTSIDE OF ECCC'S BIRD NESTING WINDOW FOR THE OTTAWA REGION (APRIL 8 TO AUGUST 31). TREE REMOVAL OF INDIVIDUAL CAVITY TREES OR OF TREES IN WOODED HABITATS SHOULD BE CONDUCTED PRIOR TO APRIL 1 OR AFTER SEPTEMBER 30TH TO AVOID IMPACTS TO BATS.
- IF VEGETATION REMOVAL IS REQUIRED DURING THE BREEDING BIRD SEASON, A NEST SWEEP SHOULD BE COMPLETED DAILY BY A QUALIFIED BIOLOGIST PRIOR TO CONSTRUCTION TO VERIFY NESTING ACTIVITY, AND TO INSPECT FOR LEAF-ROOSTING BATS.
  - IT IS HIGHLY RECOMMENDED THAT CAVITY TREES ARE NOT REMOVED DURING THE ACTIVE BAT SEASON, THEREFORE THESE REMOVALS SHOULD BE PRIORITIZED AND SCHEDULED ACCORDINGLY. IF TREE REMOVAL WORKS ARE TO OCCUR BETWEEN APRIL 1 AND APRIL 7, OR BETWEEN SEPTEMBER 1-30, THE SITE MUST BE PRE-STRESSED TO AVOID IMPACTS TO BATS. REFER TO CITY OF OTTAWA PROTOCOL FOR WILDLIFE PROTECTION DURING CONSTRUCTION (https://documents.ottawa.ca/en/files/protocol-wildlife-protection-during-construction [documents.ottawa.ca]). IF WORKS WILL OCCUR BETWEEN APRIL 1 AND APRIL 7, OR BETWEEN SEPTEMBER 1-30, SURVEYS FOR BATS MUST BE CARRIED OUT BY A QUALIFIED BIOLOGIST FOR BATS - I.E. A PERSON WHO HAS DEMONSTRATED EXPERIENCE AT IDENTIFYING POTENTIAL BAT HABITAT IN THE OTTAWA REGION; AN AVIAN EXPERT WHO IS ALSO A QUALIFIED BIOLOGIST FOR BATS MAY ALSO CONDUCT THE SURVEYS.
- IF AN ACTIVE NEST OR ROOST IS FOUND WITHIN THE WORK AREA, AT ANY TIME (INCLUDING TIMES OUTSIDE OF THE TYPICAL NESTING SEASON), ECCC MUST BE CONTACTED FOR SPECIES PROTECTED UNDER THE MBCA AND/OR THE SARA, AND MECP MUST BE NOTIFIED FOR SPECIES PROTECTED UNDER THE ESA. CONSTRUCTION IN THE VICINITY MUST CEASE UNTIL THE YOUNG BIRDS HAVE FLEDGED OR THE NEST IS OTHERWISE ABANDONED. A SETBACK FROM THE NEST (E.G., 30 M) SHOULD BE IDENTIFIED AND THE AREA DEMARCATED TO ENSURE WORK DOES NOT OCCUR WITHIN THE SETBACK LIMITS. ECCC SHOULD BE CONSULTED TO DETERMINE THE SETBACK LIMITS.FOR HEALTH AND SAFETY REASONS, AND FOR PROTECTION OF ANIMALS, REMOVAL AND RELOCATION OF MAMMALS MUST ONLY BE DONE BY QUALIFIED AND PROPERLY EQUIPPED PERSONNEL. CALL THE RIDEAU VALLEY WILDLIFE SANCTUARY AT (613) 258-9480 FOR ASSISTANCE.
- FOR HEALTH AND SAFETY REASONS, AND FOR PROTECTION OF ANIMALS, REMOVAL AND RELOCATION OF MAMMALS MUST ONLY BE DONE BY QUALIFIED AND PROPERLY EQUIPPED PERSONNEL. CALL THE RIDEAU VALLEY WILDLIFE SANCTUARY AT (613) 258-9480 FOR ASSISTANCE.
- FOR INJURED WILDLIFE, CALL THE OTTAWA HUMANE SOCIETY EMERGENCY SERVICES AT (613) 725-1532.
- FOR INJURED BIRDS, CALL THE WILD BIRD CARE CENTRE AT (613) 828-2849.
- SCRATCHES AND BITES FROM ANIMALS, WHETHER DOMESTIC OR WILD, CAN RESULT IN SERIOUS INFECTIONS AND/OR TRANSMIT DISEASES. SEEK MEDICAL TREATMENT IMMEDIATELY FOR ANY PERSON INJURED BY AN ANIMAL.

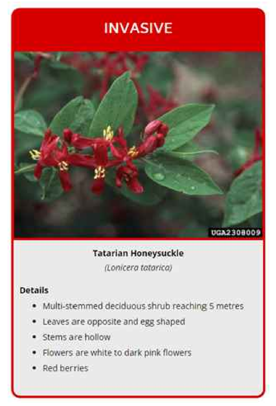
WILDLIFE ENCOUNTERS (ADAPTED FROM (https://documents.ottawa.ca/en/files/protocol-wildlife-protection-during-construction [documents.ottawa.ca]).:

- DO NOT HARM ANY WILDLIFE. MANY SPECIES ARE PROTECTED UNDER PROVINCIAL AND/OR FEDERAL LEGISLATION.
- LEGAL PROTECTION OF EGG-LAYING SPECIES APPLIES TO THEIR EGGS AS WELL. PENALTIES FOR CONTRAVENING THESE ACTS CAN BE SEVERE.
- STAND BACK AND ALLOW THE ANIMAL TO LEAVE THE SITE. WILDLIFE MAY BE ENCOURAGED TO MOVE AWAY FROM THE WORK AREA BY SHOUTING, WAVING OF ARMS, CLAPPING OF HANDS OR GENTLE REDIRECTION USING A PUSH BROOM. CONTACT PROJECT BIOLOGIST / WILDLIFE SERVICE PROVIDER FOR ASSISTANCE IF NEEDED (E.G., IF YOUNG ANIMALS ARE FOUND). DO NOT UNNECESSARILY HARASS ANY WILDLIFE.
- TURTLES MAY NEED TO BE HELPED TO SAFETY. OUR MOST COMMON SPECIES, PAINTED AND SNAPPING TURTLES, ARE PROTECTED UNDER THE FISH AND WILDLIFE CONSERVATION ACT, 1997. SNAPPING TURTLE IS ALSO PROTECTED UNDER THE SARA AS IS BLANDING'S TURTLE, WHICH OCCURS WITHIN THE OTTAWA AREA. IF ONE OF THESE TURTLES IS FOUND IN THE WORK AREA, IT CAN BE GENTLY REMOVED TO A SAFE LOCATION NEARBY. WEAR GLOVES, OR USE A BROOM TO STEER THE TURTLE INTO A BUCKET OR OTHER CONTAINER. HANDLE WITH CARE TO AVOID INJURY TO THE TURTLE OR YOURSELF, PARTICULARLY WHEN DEALING WITH SNAPPING TURTLES, WHICH MAY BITE OR SCRATCH. TURTLES MAY ALSO WET THEMSELVES WHEN HANDLED. ALSO REFER HERE FOR HANDLING INFORMATION: https://files.ontario.ca/environment-and-energy/species-at-risk/mnr_sar_tx_sar_hnd_mnl_en.pdf [files.ontario.ca]
- MOST OF OTTAWA'S SNAKES ARE PROTECTED UNDER THE FISH AND WILDLIFE CONSERVATION ACT, 1997. NONE OF THEM ARE VENOMOUS, BUT BITES MAY CAUSE INFECTIONS. SOME PRODUCE A FOUL-SMELLING MUSK WHEN HANDLED, INSTEAD OF BITING. SNAKES WILL USUALLY TRY TO ESCAPE OR HIDE WHEN DISTURBED, AND ONLY DEFEND THEMSELVES WHEN TRAPPED. IF A SNAKE IS FOUND IN THE WORK AREA, IT SHOULD BE GENTLY HERDED OUT TO A SAFE LOCATION.
- STOP WORK IMMEDIATELY IF ANY SPECIES PROTECTED UNDER THE ENDANGERED SPECIES ACT, 2007 OR THE SPECIES AT RISK ACT (2002) ARE SEEN IN OR NEAR THE WORK SITE. TAKE A PHOTOGRAPH IF POSSIBLE, TO CONFIRM THE SIGHTING, AND CONTACT THE PROJECT BIOLOGIST AT (613) 218-1186. ADDITIONAL MEASURES TO AVOID IMPACTS MAY BE REQUIRED BY ENVIRONMENT AND CLIMATE CHANGE CANADA BEFORE WORK CAN RESTART.

INVASIVE SPECIES REMOVAL

INVASIVE PLANT SPECIES





- HEAVY EQUIPMENT MUST BE CLEANED AND FREE OF INVASIVE SPECIES PRIOR TO ENTERING AND BEFORE LEAVING THE CONSTRUCTION SITE. BEST MANAGEMENT PRACTICES FROM THE INVASIVE ONTARIO PLANT COUNCIL (HTTPS://WWW.ONTARIOINVASIVEPLANTS.CA) SHOULD BE APPLIED TO PREVENT THE SPREADING OF INVASIVE SPECIES INTO AND FROM FEDERAL PROPERTY.
- AREAS OF INVASIVE BRUSH CLEARING (EUROPEAN BUCKTHORN AND ISOLATED INVASIVE HONEYSUCKLES) WILL BE IDENTIFIED IN THE SITE WALK-THROUGH (CLUSTERS THROUGHOUT LRT CORRIDOR AND CARLING AVENUE WOODLOT)
  - PREVENT SPREAD BY MOVING FROM OUTSIDE EDGE INWARDS DURING REMOVAL EFFORTS; AND
  - STRIP AREAS WITH IDENTIFIED DOMINANT INVASIVE SPECIES LAST SO THAT EQUIPMENT DOES NOT TRACK PROPAGULES OR SEEDS INTO UNCONTAMINATED AREAS; OR
  - CLEAN EQUIPMENT IN ACCORDANCE WITH THE ABOVE CLEAN EQUIPMENT PROTOCOL WHEN MOVING FROM AN INVASIVE CONTAMINATED WORK AREA INTO A CLEAN AREA
  - DISPOSAL OF INVASIVE SPECIES AT A MUNICIPAL LAND FILL THAT ACCEPTS ORGANIC WASTE
- COMPREHENSIVE LONG-TERM REMOVAL STRATEGIES AND MONITORING ARE NOT REQUIRED AT THIS STAGE AND WILL BE INCORPORATED INTO FUTURE SITE PLANS.

EMERALD ASH BORER

- CANADIAN FOOD INSPECTION AGENCY (CFIA) DIRECTIVE (D-03-08): PHYTOSANITARY REQUIREMENTS TO PREVENT THE INTRODUCTION INTO AND SPREAD WITHIN CANADA OF THE EMERALD ASH BORER (EAB) *AGRILUS PLANIPENNIS* (FAIRMAIRE) RESTRICTS THE MOVEMENT OF ALL ASH MATERIAL INCLUDING WOOD, BARK, CHIPS OR BARK CHIPS FROM BEING TRANSPORTED OUTSIDE OF THE REGULATED AREA. A MOVEMENT CERTIFICATE IS REQUIRED BY THE CFIA FOR ANY ASH MATERIAL LEAVING THE REGULATED AREA.
- ASH ARE PERMITTED TO BE CHIPPED ON SITE AND/OR REMOVED OR CUT DOWN AND REMOVED FROM SITE. CHIPPED ASH MATERIAL THAT IS TO REMAIN ON SITE MUST BE GROUND OR CHIPPED TO A SIZE OF LESS THAN 2.5 CM IN ANY TWO DIMENSIONS. ALL ASH MATERIAL CHIPPED OR WHOLE THAT IS TO BE REMOVED FROM SITE MUST BE DISPOSED OF AT THE CITY OF OTTAWA TRAIL ROAD WASTE FACILITY.
- A MOVEMENT CERTIFICATE IS NOT REQUIRED TO DISPOSE OF PROJECT RELATED ASH TREES AT THE TRAIL ROAD FACILITY.

DUTCH ELM DISEASE

- CFIA DIRECTIVE (D-97-07): PHYTOSANITARY REQUIREMENTS FOR THE IMPORTATION FROM THE UNITED STATES AND DOMESTIC MOVEMENT OF ELM MATERIAL (*ULMUS* SPP. AND *ZELKOVA* SPP.) TO PREVENT THE INTRODUCTION AND SPREAD OF DUTCH ELM DISEASE *OPHIOSTOMA ULMI* (BUISMAN) NANNF. AND *OPHIOSTOMA NOVO-ULMI* (BRASIER) WITHIN CANADA RESTRICTS THE MOVEMENT OF ALL ELM MATERIAL INCLUDING PROPAGATIVE MATERIAL, INCLUDING NURSERY STOCK, AND NON-PROPAGATIVE MATERIAL WITH BARK ATTACHED SUCH AS LOGS, LUMBER, FIREWOOD, CRATES AND ISOLATED BARK OF ALL SPECIES, HYBRIDS AND HORTICULTURAL CULTIVARS OF ELM.
- ELM INFECTED WITH DUTCH ELM DISEASE SHOULD BE BURIED, DEBARKED, BURNED OR CHIPPED.

LDD MOTH

- THE CONTRACTOR MUST VERIFY THAT NO LDD MOTH EGG MASSES ARE LOCATED ON THE TRUNK AND/OR BRANCHES OF THE TREES TO BE REMOVED. IF THE CONTRACTOR FINDS AN EGG MASS, IT IS RECOMMENDED THAT THIS EGG MASS BE REMOVED AND DISPOSED OF IN A BAG OR RECIPIENT WITH SOAPY WATER TO KILL THE EGGS.

Karla Salp, Washington State Department of Agriculture, Bugwood.org

TREE REMOVAL

TIMING WINDOWS FOR TREE REMOVALS

TO MINIMIZE IMPACTS TO WILDLIFE AND ENSURE COMPLIANCE OF THE *MIGRATORY BIRDS CONVENTION ACT (MBCA), 1994,* THE *SPECIES AT RISK ACT (SARA) 2002* AND THE *ENDANGERED SPECIES ACT (ESA), 2007*, THE FOLLOWING IS RECOMMENDED:

- AS A GENERAL PRECAUTION, TREE AND VEGETATION REMOVALS (INCLUDING MOWING OF TALL GRASS) SHALL BE CONDUCTED OUTSIDE OF ECCC'S BIRD NESTING WINDOW FOR THE OTTAWA REGION (APRIL 8 TO AUGUST 31). TREE REMOVAL OF INDIVIDUAL CAVITY TREES OR OF TREES IN WOODED HABITATS SHOULD BE CONDUCTED PRIOR TO APRIL 1 OR AFTER SEPTEMBER 30TH TO AVOID IMPACTS TO BATS.
- IF VEGETATION REMOVAL IS REQUIRED DURING THE BREEDING BIRD SEASON, A NEST SWEEP SHOULD BE COMPLETED DAILY BY A QUALIFIED BIOLOGIST PRIOR TO CONSTRUCTION TO VERIFY NESTING ACTIVITY, AND TO INSPECT FOR LEAF-ROOSTING BATS.
  - IT IS HIGHLY RECOMMENDED THAT CAVITY TREES ARE NOT REMOVED DURING THE ACTIVE BAT SEASON, THEREFORE THESE REMOVALS SHOULD BE PRIORITIZED AND SCHEDULED ACCORDINGLY. IF TREE REMOVAL WORKS ARE TO OCCUR BETWEEN APRIL 1 AND APRIL 7, OR BETWEEN SEPTEMBER 1-30, THE SITE MUST BE PRE-STRESSED TO AVOID IMPACTS TO BATS. REFER TO CITY OF OTTAWA PROTOCOL FOR WILDLIFE PROTECTION DURING CONSTRUCTION (HTTPS://DOCUMENTS.OTTAWA.CA/EN/FILES/PROTOCOL-WILDLIFE-PROTECTION-DURING-CONSTRUCTION [DOCUMENTS.OTTAWA.CA]). IF WORKS WILL OCCUR BETWEEN APRIL 1 AND APRIL 7, OR BETWEEN SEPTEMBER 1-30, SURVEYS FOR BATS MUST BE CARRIED OUT BY A QUALIFIED BIOLOGIST FOR BATS - I.E. A PERSON WHO HAS DEMONSTRATED EXPERIENCE AT IDENTIFYING POTENTIAL BAT HABITAT IN THE OTTAWA REGION; AN AVIAN EXPERT WHO IS ALSO A QUALIFIED BIOLOGIST FOR BATS MAY ALSO CONDUCT THE SURVEYS.
- IF AN ACTIVE NEST OR ROOST IS FOUND WITHIN THE WORK AREA, AT ANY TIME (INCLUDING TIMES OUTSIDE OF THE TYPICAL NESTING SEASON), ECCC MUST BE CONTACTED FOR SPECIES PROTECTED UNDER THE MBCA AND/OR THE SARA, AND MECP MUST BE NOTIFIED FOR SPECIES PROTECTED UNDER THE ESA. CONSTRUCTION IN THE VICINITY MUST CEASE UNTIL THE YOUNG BIRDS HAVE FLEDGED OR THE NEST IS OTHERWISE ABANDONED. A SETBACK FROM THE NEST (E.G., 30 M) SHOULD BE IDENTIFIED AND THE AREA DEMARCATED TO ENSURE WORK DOES NOT OCCUR WITHIN THE SETBACK LIMITS. ECCC SHOULD BE CONSULTED TO DETERMINE THE SETBACK LIMITS.

REMOVAL AND GRUBBING

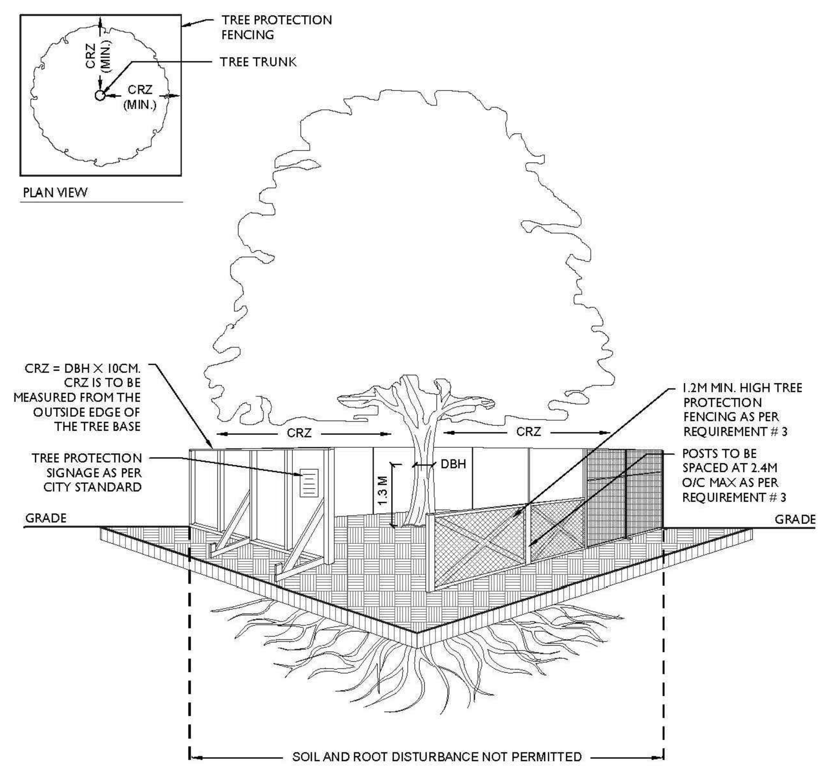
- ALL TREES REMOVED WITHIN THE PHASE 2 PROJECT AREA AS DELINEATED BY CONSTRUCTION SITE EXCLUSION FENCING SHOULD BE GRUBBED TO REMOVE THE STUMP AND ROOTS.
- IF ISOLATED TREES (E.G. DEAD, HAZARD, INVASIVE) ARE REMOVED OUTSIDE OF THE PHASE 2 PROJECT AREA FENCING, OR IF FENCING IS NOT IN PLACE IN ADVANCE OF REMOVALS, ALL TREES AND SHRUBS SHOULD BE CUT TO A STUMP.
- TREES MAY BE MULCHED ON SITE, HOWEVER MULCH SHOULD NOT BE STORED LONG TERM. ALL MULCH PILES MUST BE LOCATED WITHIN THE PHASE 2 CONSTRUCTION SITE EXCLUSION FENCING, OR MUST OTHERWISE BE EXCLUDED TO PREVENT ENTRY BY WILDLIFE.
- CERTAIN TREES ARE EXPECTED TO BE IDENTIFIED FOR RECLAMATION ON SITE AS LUMBER. THESE TREES WILL BE IDENTIFIED BY TAGS AND DURING THE SITE WALK-THROUGH. SPECIFIC REQUIREMENTS WILL BE OUTLINED FOR THE PREPARATION, CUTTING, AND STORAGE OF THESE TREES.

LANDSCAPE TREE PRESERVATION DETAIL

TREE PROTECTION MEASURES

THE FOLLOWING PROTECTION MEASURES MUST BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION ON SITE:

- UNDER THE GUIDANCE OF AN ARBORIST, ERECT A FENCE AT THE CRITICAL ROOT ZONE (CRZ) OF TREES WHERE THE CRZ IS
- ESTABLISHED AS BEING 10 CENTIMETRES FROM THE TRUNK OF A TREE FOR EVERY CENTIMETER OF TRUNK DIAMETER AT BREAST HEIGHT. THE CRZ IS CALCULATED AS DBH × 10CM.
- DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRZ OF THE TREE.
- DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE.
- DO NOT RAISE OR LOWER THE EXISTING GRADE WITHIN THE CRZ WITHOUT APPROVAL.
- TUNNEL OR BORE WHEN DIGGING WITHIN THE CRZ OF A TREE.
- DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OF ANY TREE.
- TREES MAY BE PROTECTED INDIVIDUALLY, OR AS A GROUPING
- THE SAME STANDARDS APPLY TO ALL TREES TO BE PROTECTED
- A TREE PROTECTION FENCING INSPECTION WILL BE CARRIED OUT BY THE CITY OF OTTAWA AS A CONDITION OF THE TREE CUTTING PERMIT



TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
   - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
   - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
   - DO NOT RAISE OR LOWER THE EXISTING GRADE;
   - TUNNEL OR BORE WHEN DIGGING;
   - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
   - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
   - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

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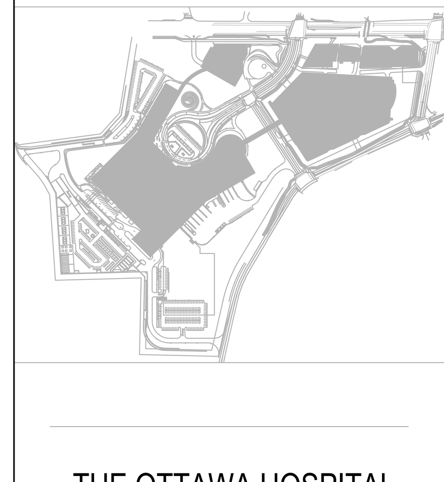
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
	2022-09-30	ISSUED FOR PRE-CONSULTATION
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number 10333982
Original Issue 04/21/22

Sheet Name

LANDSCAPE TREE PRESERVATION DETAIL

Sheet Number

L-2.2.2.107

Project Status

STAGE 3

Clean Equipment Protocol for Industry – Summary

Invasive species are plants, animals and microorganisms that have been accidentally or deliberately introduced into areas beyond their normal range, that out compete native species. Invasive species are a major threat to Ontario's natural areas, and are very costly to deal with once established.

Invasive species can be spread to new areas by contaminated mud, gravel, soil and plant materials on vehicles and machinery.

The best practice is to prevent the spread of invasive species. By inspecting and cleaning equipment and following some simple guidelines, the risk of spreading invasive plants is greatly reduced.

- Identify invasive plants and plan activities accordingly (i.e. schedule work in areas without invasive plants first, leaving infested areas til the end, to reduce the risk of unintentionally moving plants into a new area).
- Record & report sightings of invasive plants (Invading Species hotline at **1-800-563-7711** or online **www.invadingspecies.com/report/** or **www.eddmaps.org/Ontario**)
- Inspect vehicles and machinery before and after entering sites or conducting work along roadways & waterways.

How to Inspect

Before leaving the site, inspect the vehicle thoroughly inside and out for where dirt, plant material and seeds may be lodged or stuck to interior and exterior surfaces. Remove and clean any guards, covers or plates that are easy to remove.

Pay attention to the underside of the vehicle, radiators, spare tires, foot wells and bumper bars. If clods of dirt, seed or other plant material are found, remove immediately and discard where the contamination occurred or in the garbage.

When Cleaning is required

- Safely locate the vehicle and equipment away from any hazards, ensure engine is off and the vehicle or equipment is immobilized.
- Clean the vehicle/equipment in an appropriate area where contamination and seed spread is not possible (or limited).

  The site should be:
  - Mud free, gravel covered hard surface, or, if this is not available, a well maintained grassy area.
  - Gently sloping to assist in draining water and material away from the vehicle or equipment. Care should be taken to ensure that localized erosion will not be created.
  - At least 30m away from any watercourse, water body and natural vegetation.
  - Large enough to allow for adequate movement of larger vehicles and equipment.

Continued...

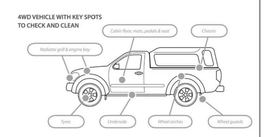
Equipment Required

- ☐ A pump and high pressure hose OR High pressure water unit
- ☐ Air compressor and blower OR Vacuum
- ☐ Shovel
- ☐ Pry bar
- ☐ Stiff brush or broom

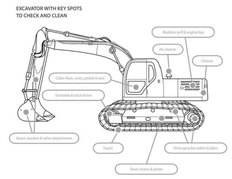
Final Inspection Checklist

- ☐ No clods of dirt should be visible after cleaning.
- ☐ Radiators, grills and the interiors of vehicles should be free of accumulations of seed, soil, mud and plant material parts including seeds, roots, flowers, fruit and or stems.

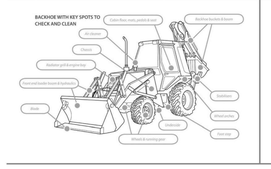
2WD and 4WD Vehicles



Excavator



Backhoe



Bulldozer

Invasive Species Centre — *Catalyst for research and response*

Ontario

Haliburton, Kawartha, Pine Ridge District Municipality

Ontario Invasive Plant Council

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

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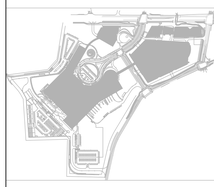

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

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Original Issue	04/21/22

Sheet Name

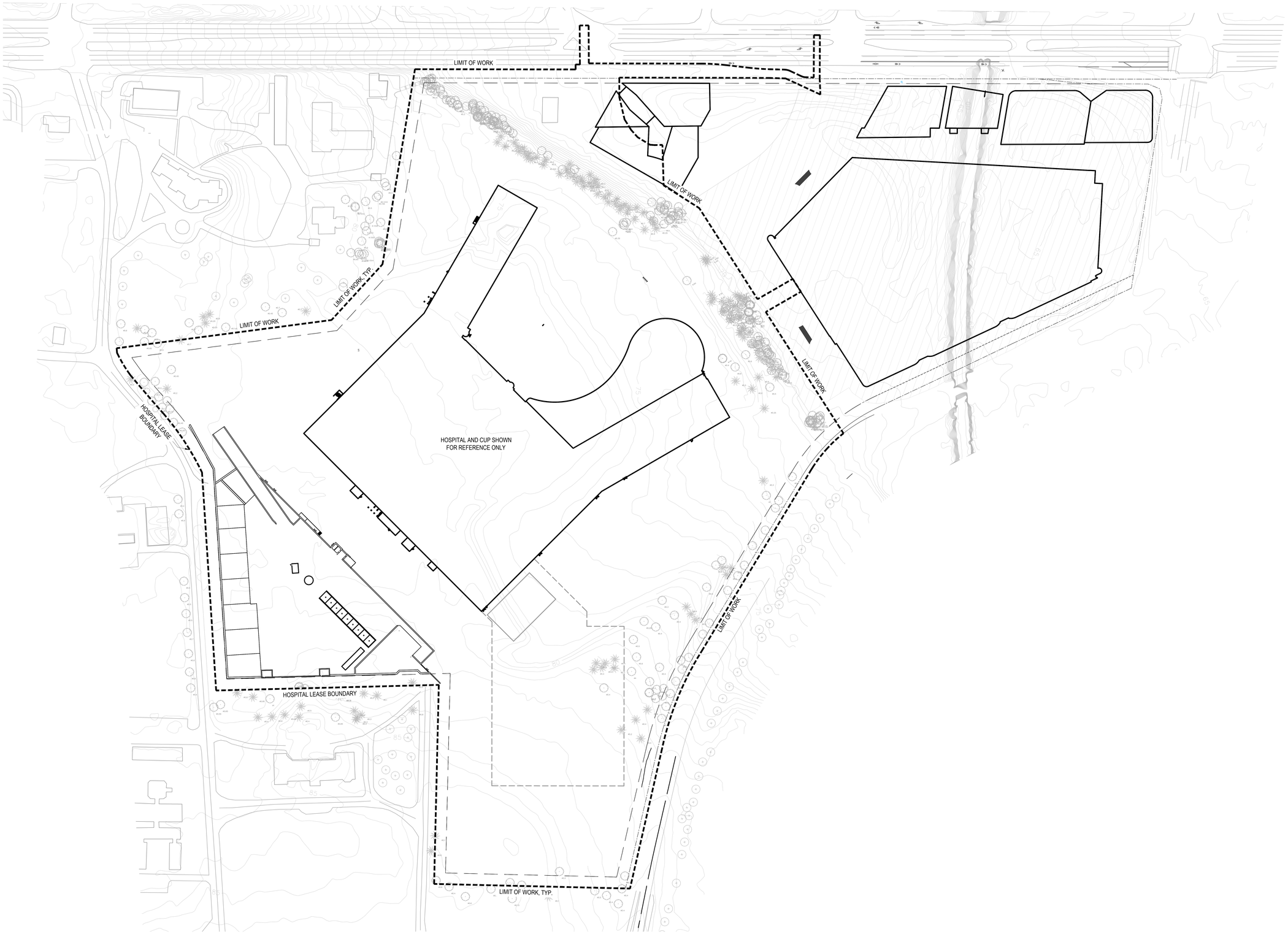
CLEAN EQUIPMENT PROTOCOL

Sheet Number

L-2.2.2.108

Project Status

STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

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Scale 1: 750

HDR

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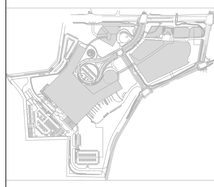

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EXISTING TOPOGRAPHY PLAN

Sheet Number

L-2.2.2.200

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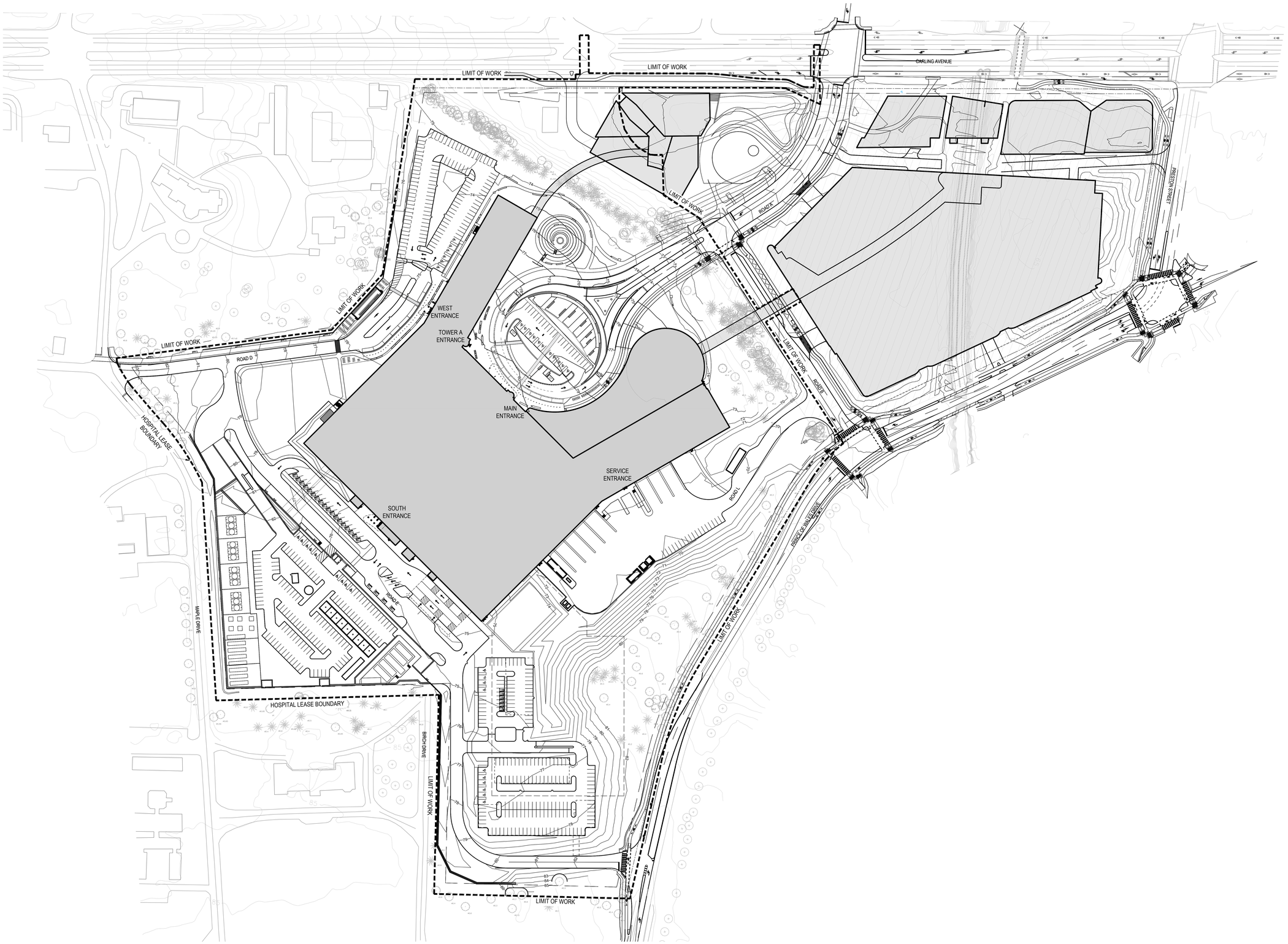
STAGE 3



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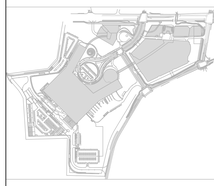

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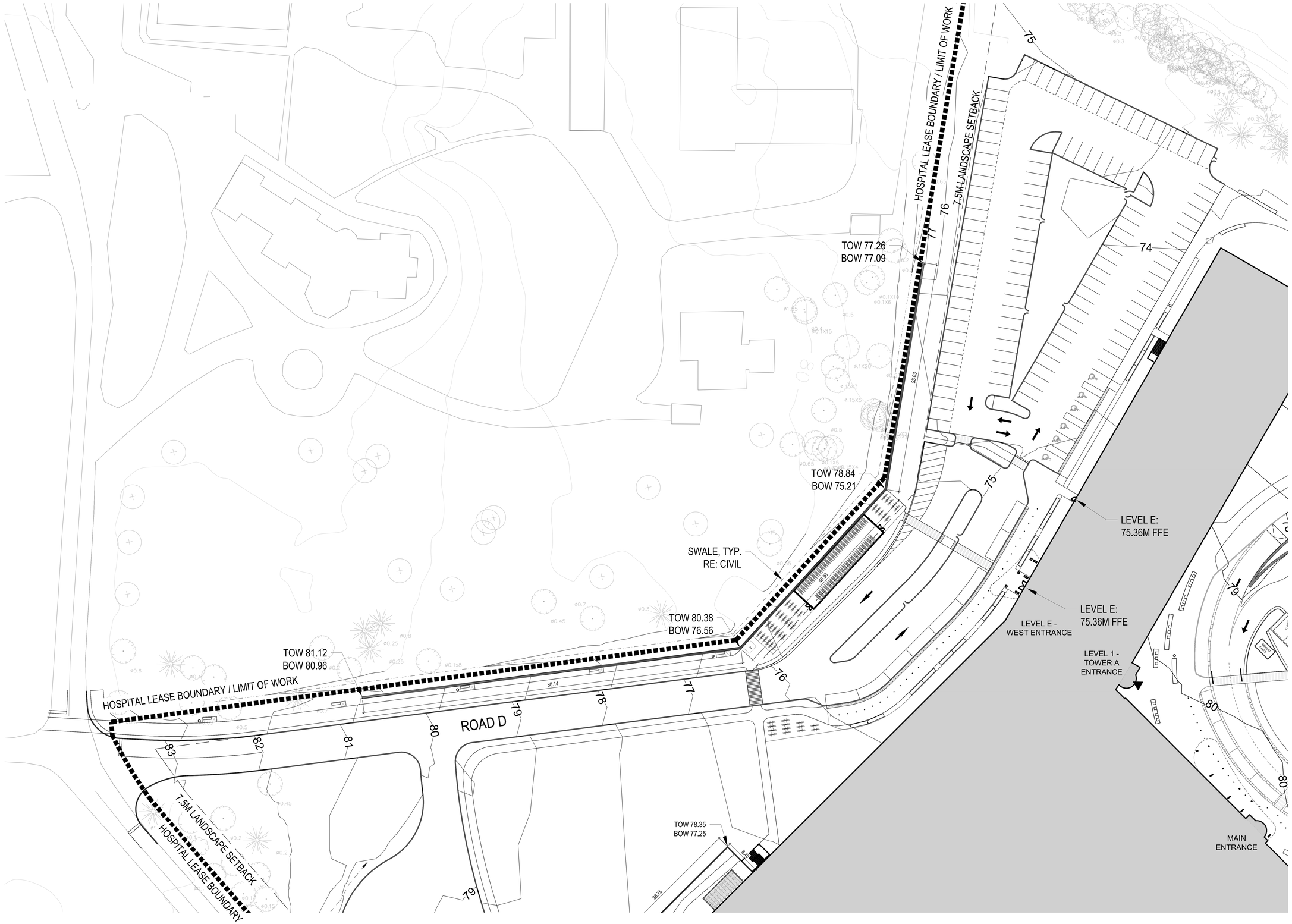
OVERALL GRADING PLAN

Sheet Number

L-2.2.2.201

Project Status

STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
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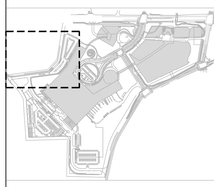

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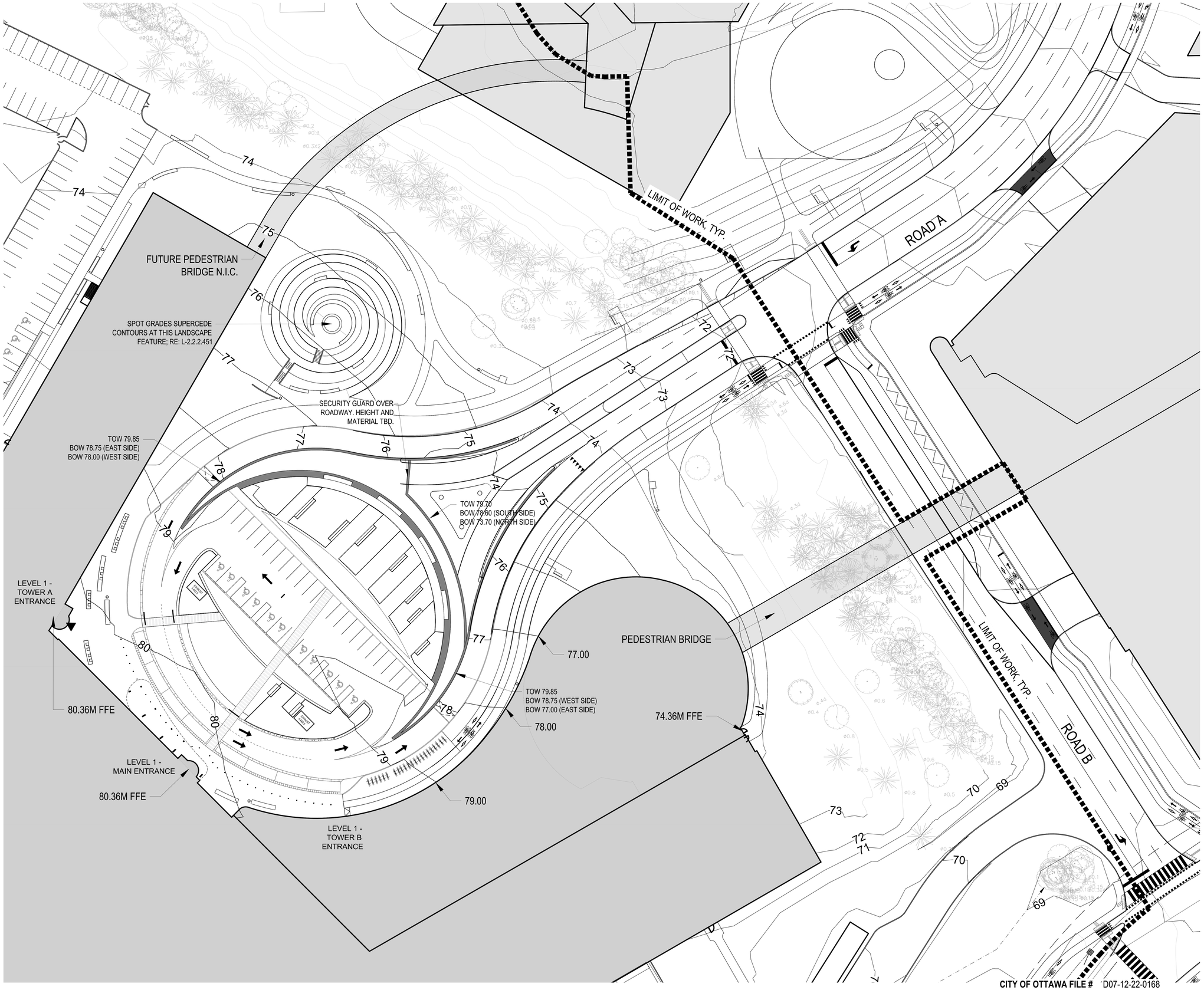
GRADING PLAN
ENLARGEMENT

Sheet Number

L-2.2.2.202

Project Status

STAGE 3



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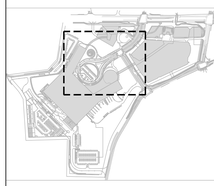

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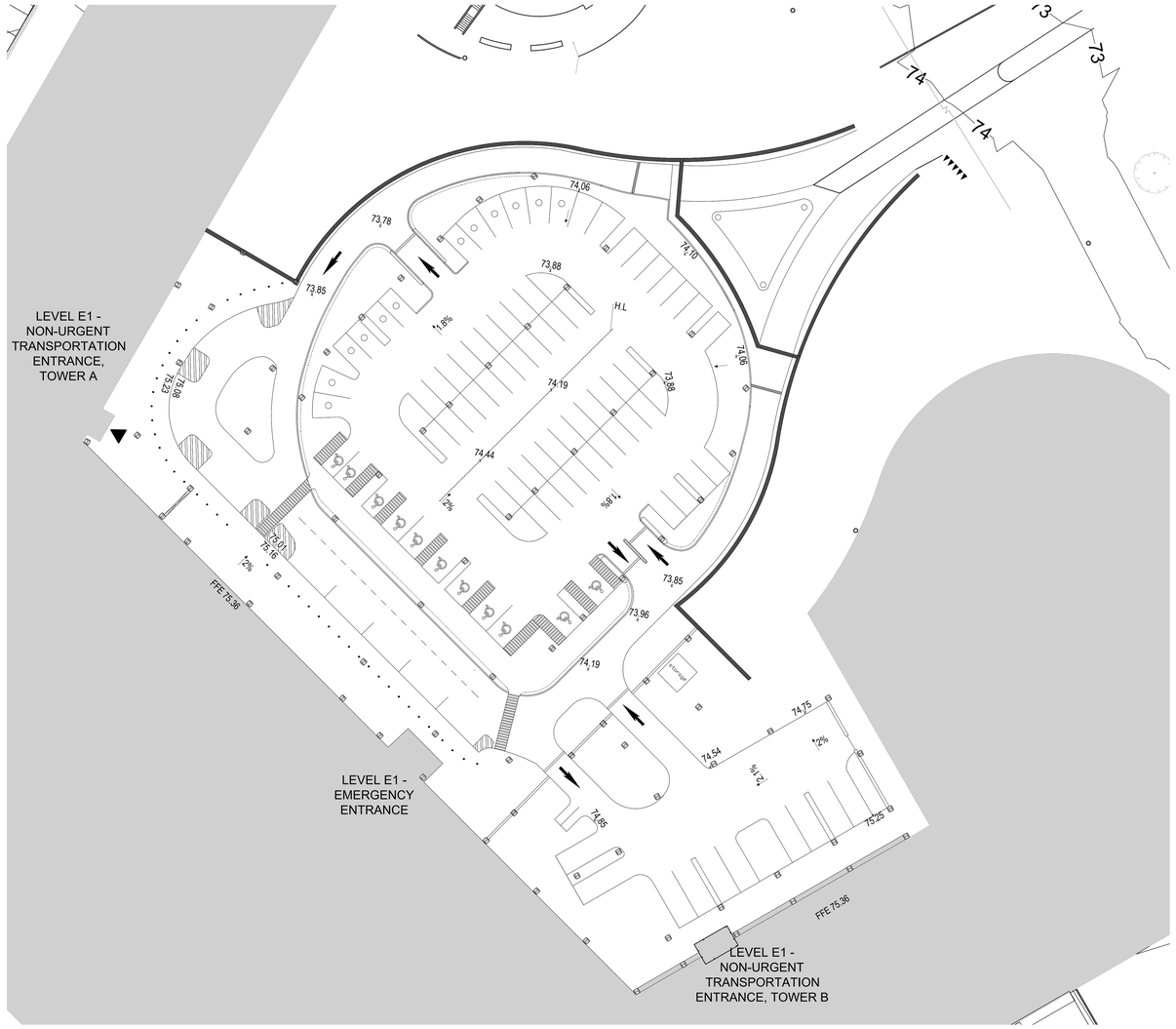

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CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

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Scale 1: 250

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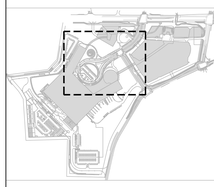

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GRADING PLAN
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L-2.2.2.203.1

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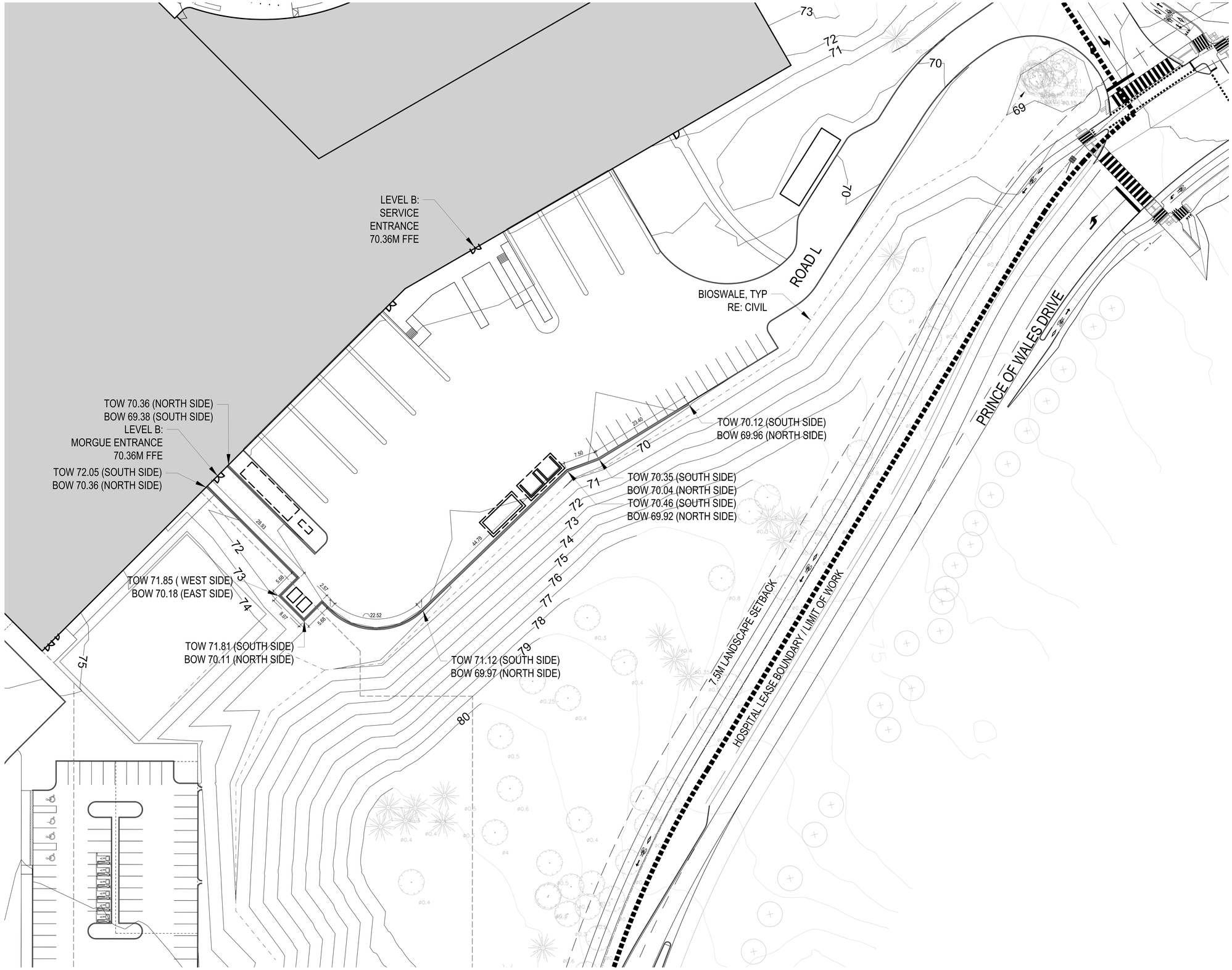

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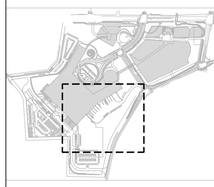

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GRADING PLAN
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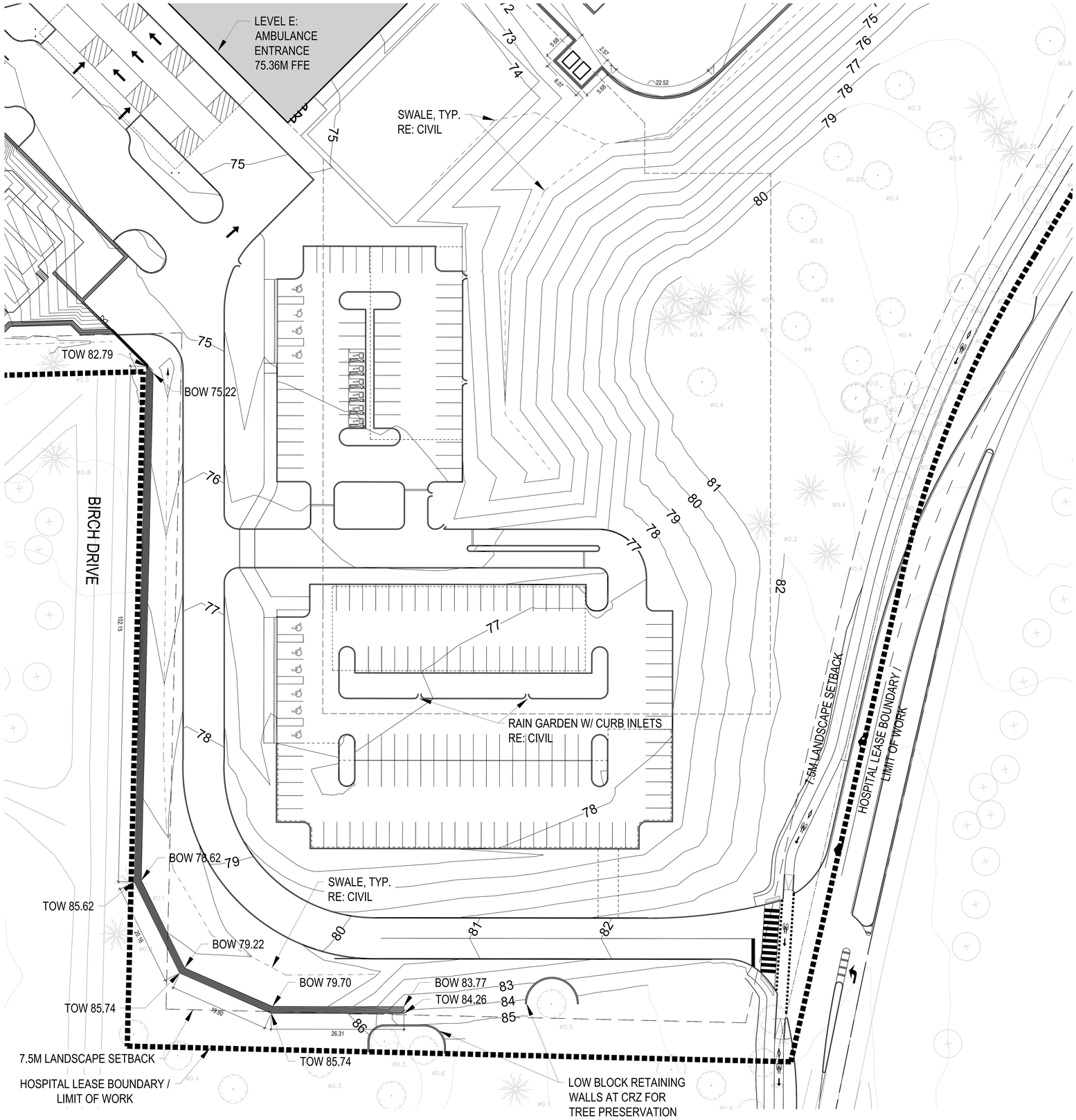

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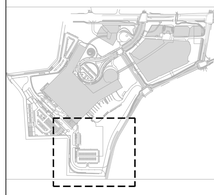

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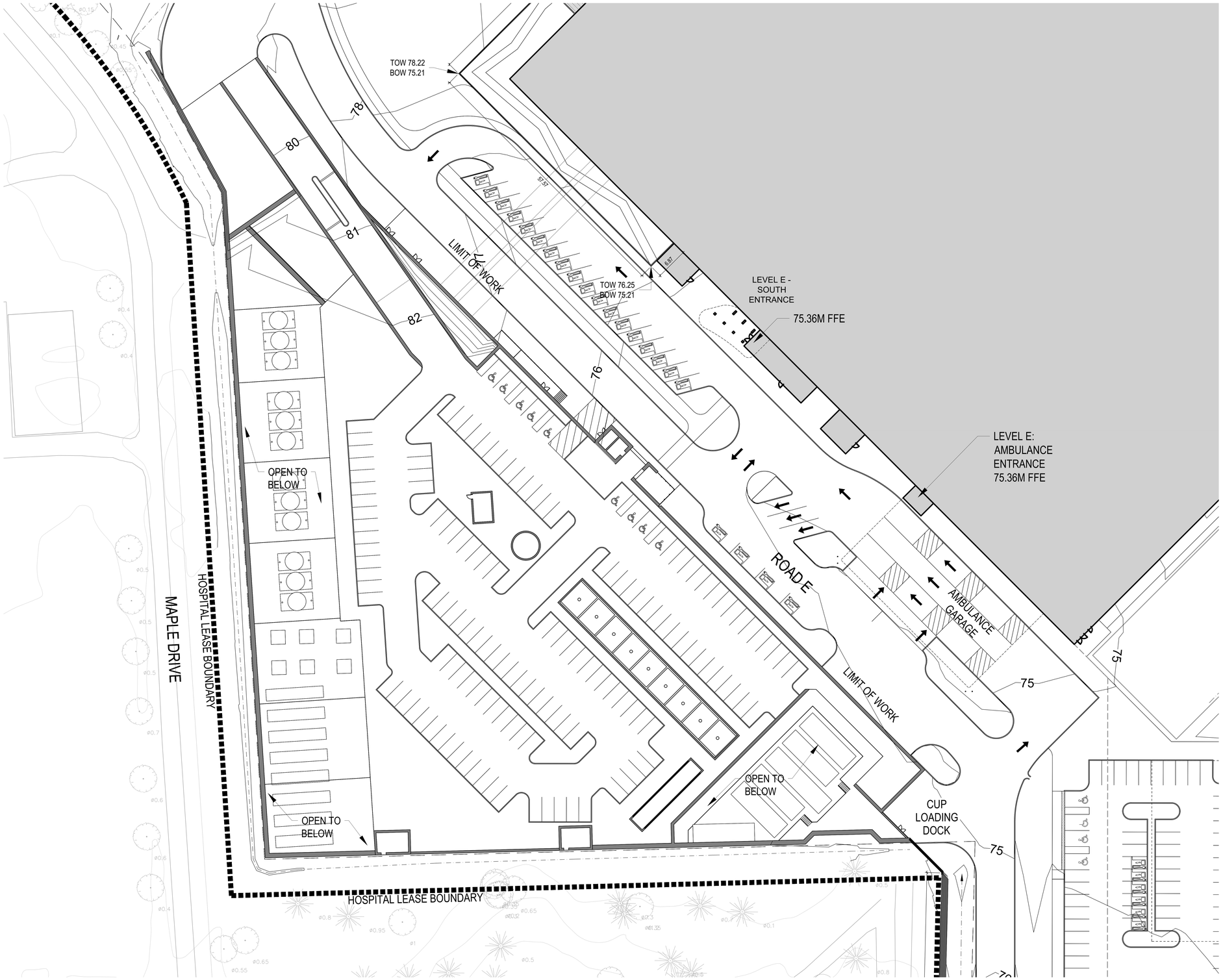

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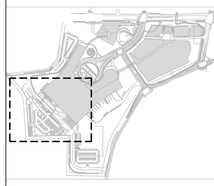

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ENLARGEMENT

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L-2.2.2.206

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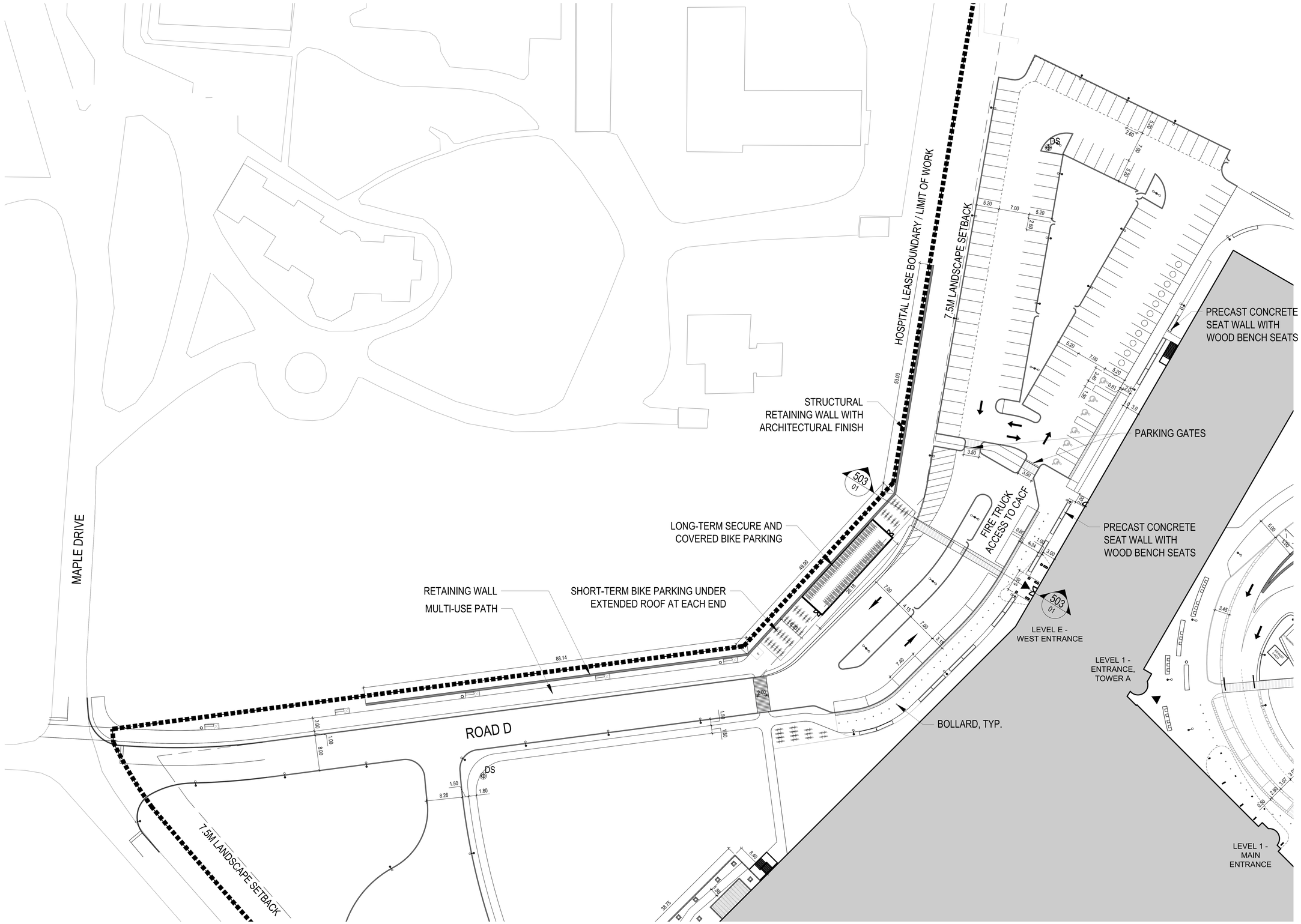

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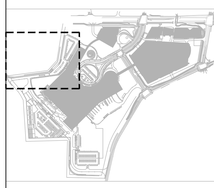


THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
	2022-08-30	ISSUED FOR PRE-CONSULTATION
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1.2
	2023-02-24	ISSUED FOR IMP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	10333992
Original Issue	04/21/22

Sheet Name

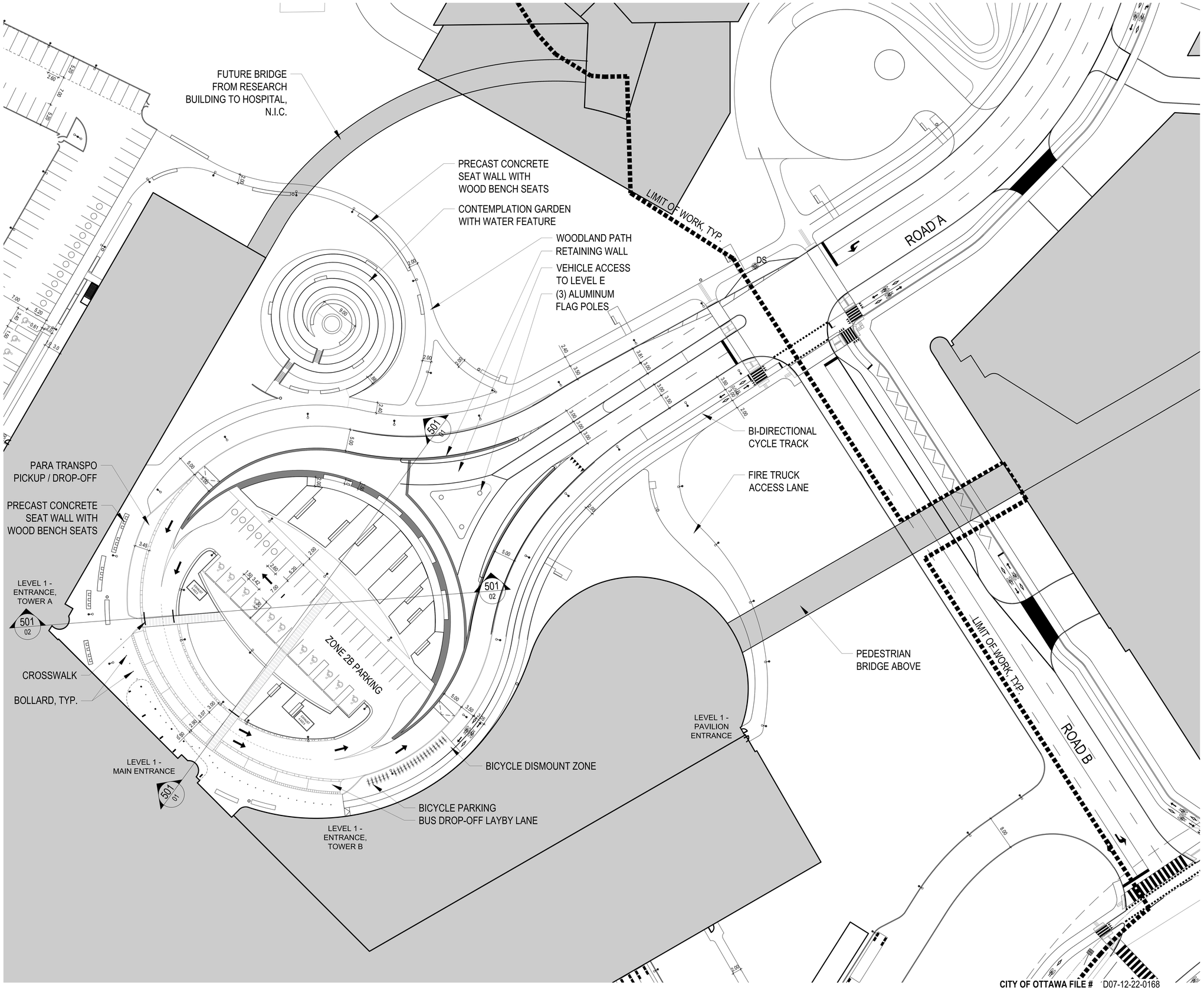
SITE LAYOUT ENLARGEMENT

Sheet Number

L-2.2.2.302

Project Status

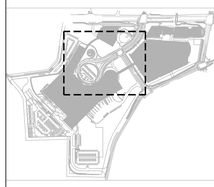
STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339B2
Original Issue	04/21/22

Sheet Name

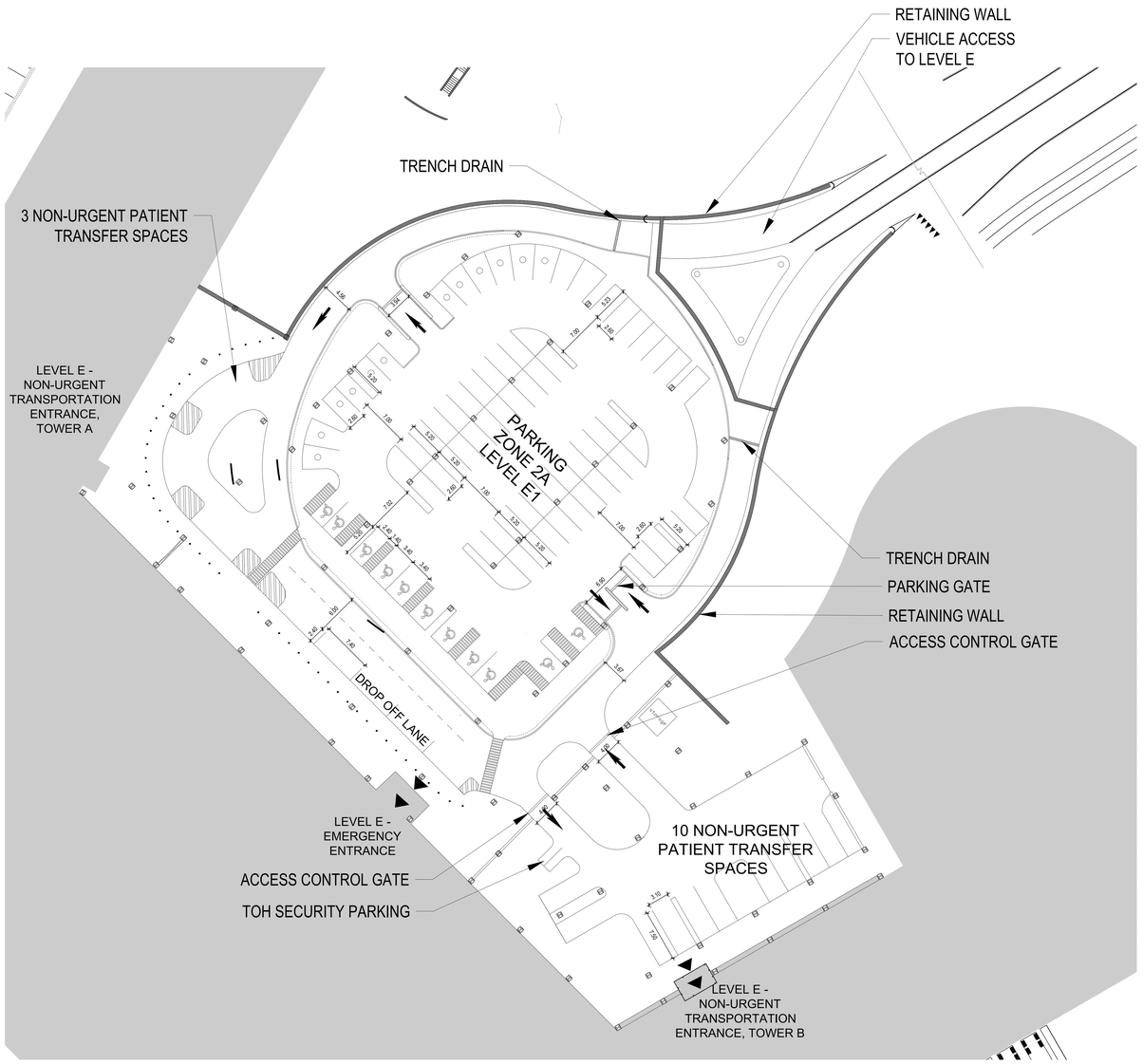
SITE LAYOUT ENLARGEMENT

Sheet Number

L-2.2.2.303

Project Status

STAGE 3

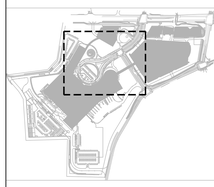


CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Project Number	103339982
Original Issue	04/21/22

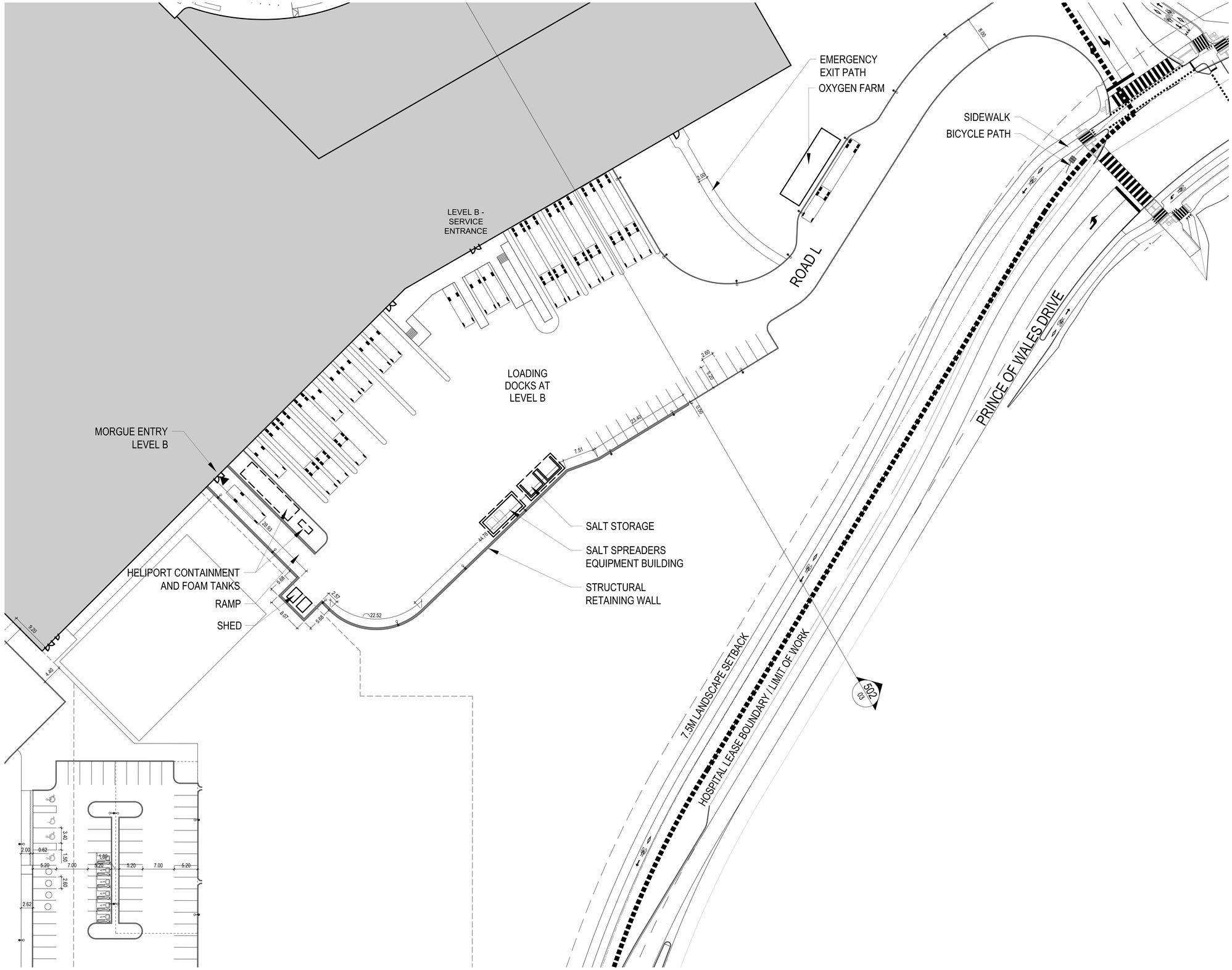
Sheet Name

SITE LAYOUT
ENLARGEMENT
EMERGENCY ENTRANCE

Sheet Number

L-2.2.2.303.1

Project Status
STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

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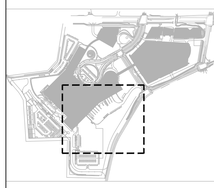
Scale 1: 250

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103335982
Original Issue	04/21/22

Sheet Name

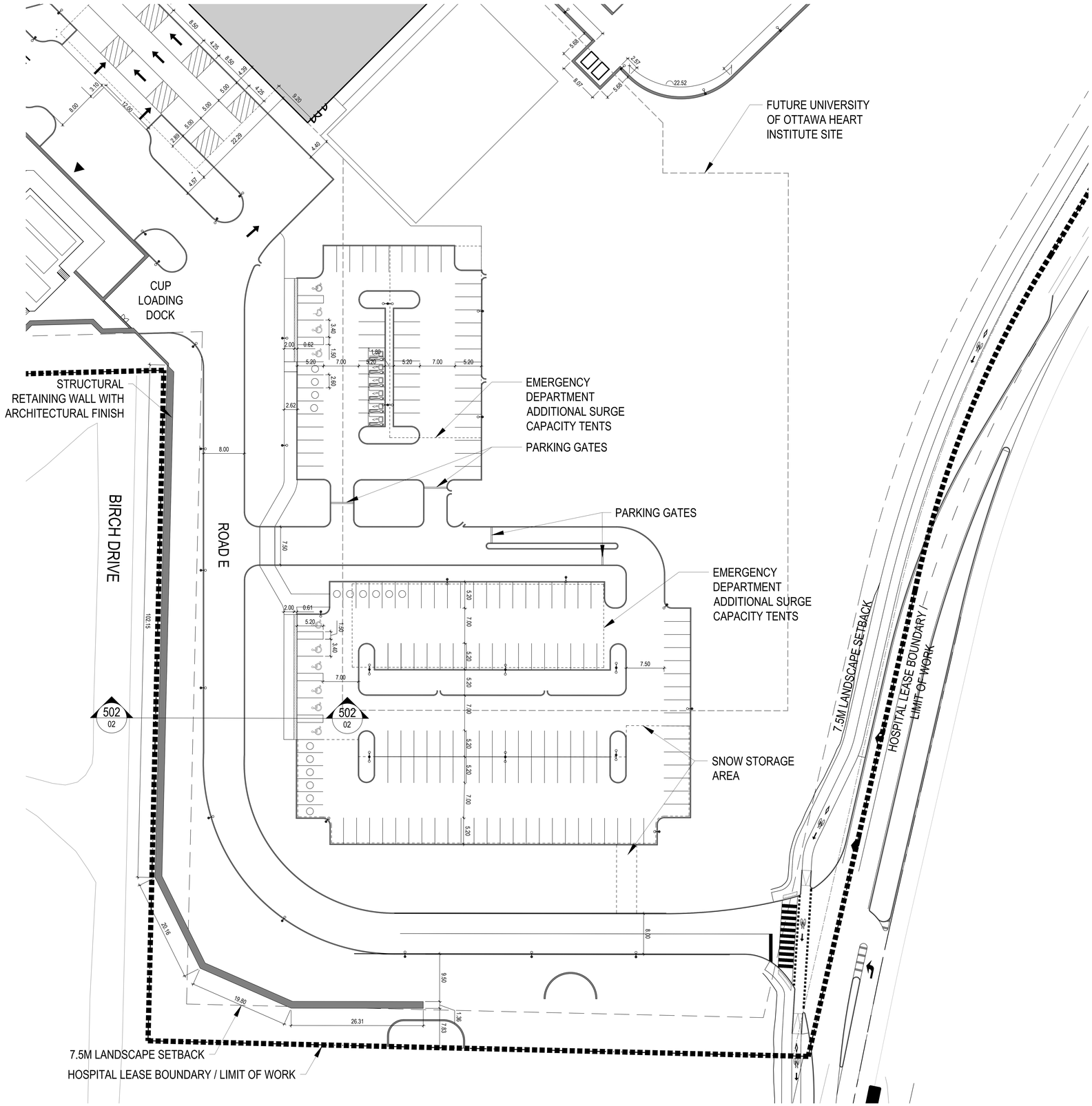
SITE LAYOUT
ENLARGEMENT

Sheet Number

L-2.2.2.304

Project Status

STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

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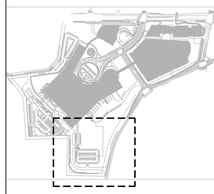
Scale 1: 250

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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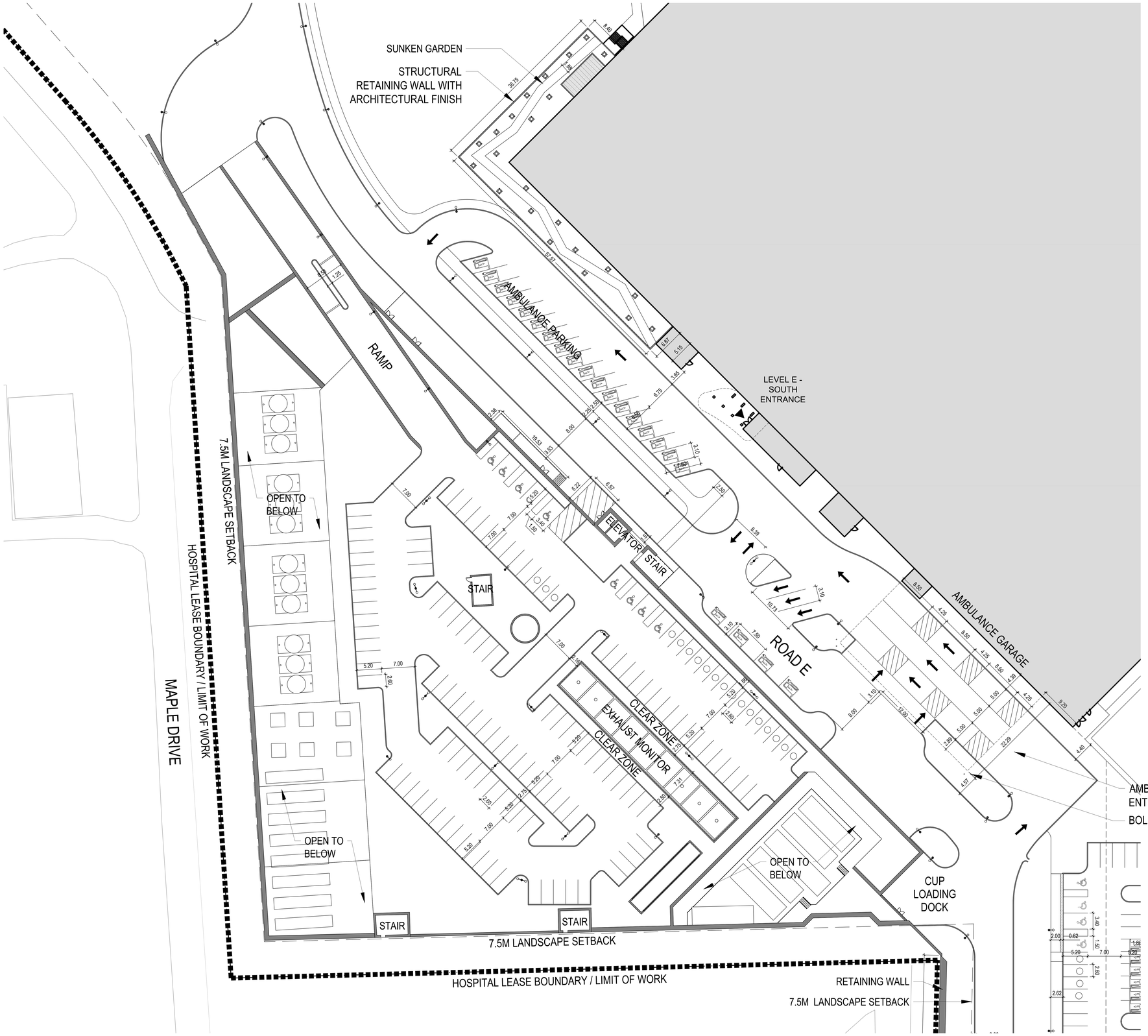
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339862
Original Issue	04/21/22

Sheet Name
SITE LAYOUT ENLARGEMENT

Sheet Number
L-2.2.2.305

Project Status
STAGE 3



CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

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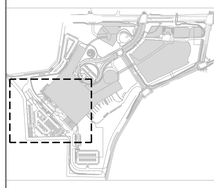
Scale 1: 250

HDR

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Equipment Planner	Colliers
Wayfinding	

Sheet Reviewer	Author

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339B2
Original Issue	04/21/22

Sheet Name

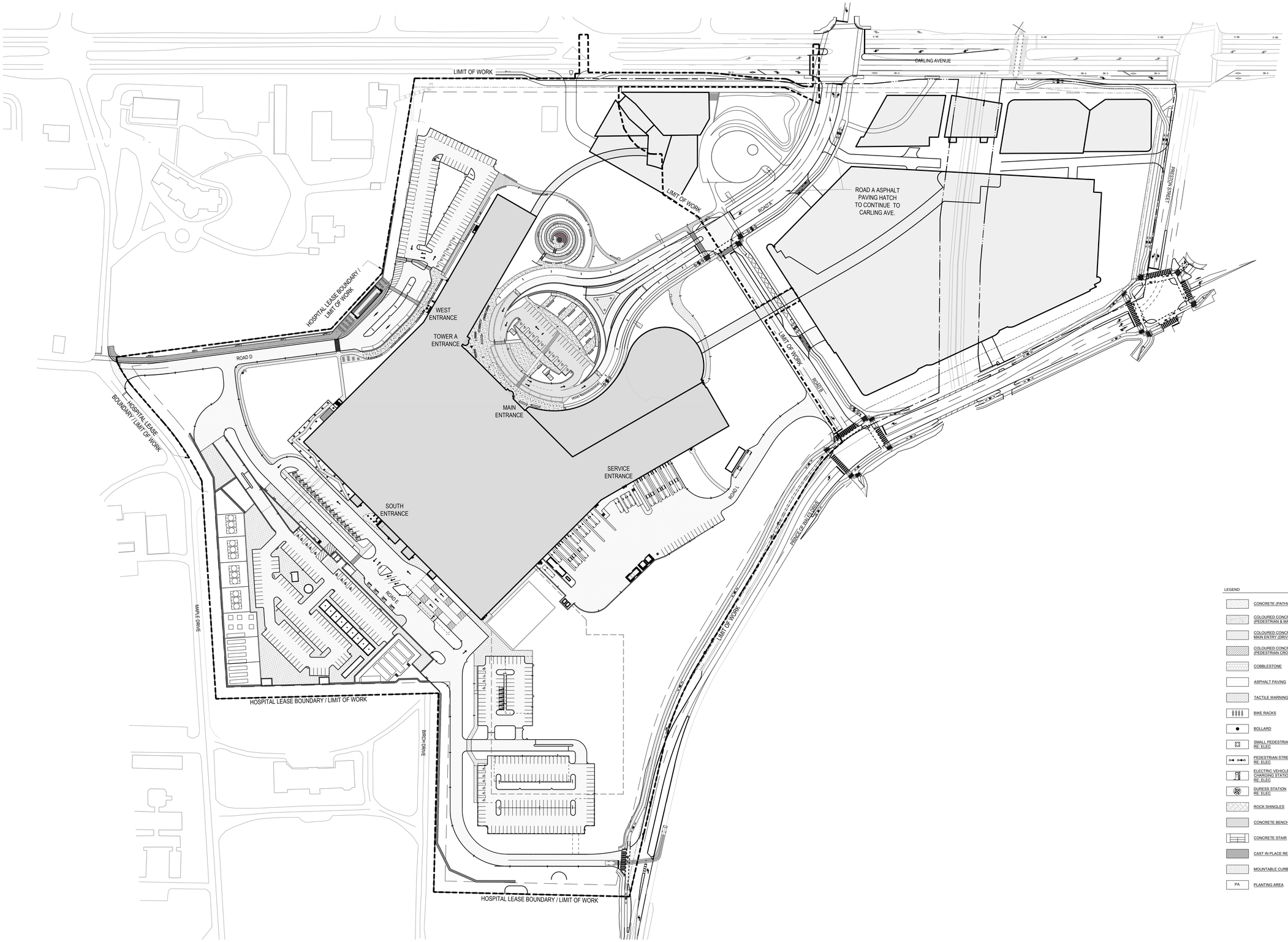
SITE LAYOUT ENLARGEMENT

Sheet Number

L-2.2.2.306

Project Status

STAGE 3



LEGEND

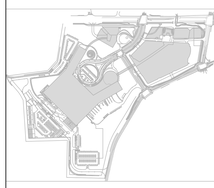
- CONCRETE (PATHWAY)
- COLOURED CONCRETE (PEDESTRIAN & MAIN ENTRY)
- COLOURED CONCRETE MAIN ENTRY (DRIVEWAY)
- COLOURED CONCRETE (PEDESTRIAN CROSSING)
- COBBLESTONE
- ASPHALT PAVING
- TACTILE WARNING
- BIKE RACKS
- BOLLARD
- SMALL PEDESTRIAN LIGHTS RE: ELEC
- PEDESTRIAN STREET LIGHTS RE: ELEC
- ELECTRIC VEHICLE CHARGING STATION RE: ELEC
- DURESS STATION RE: ELEC
- ROCK SHINGLES
- CONCRETE BENCH
- CONCRETE STAIR
- CAST IN PLACE RETAINING WALL
- MOUNTABLE CURB
- PA — PLANTING AREA

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

0 18.75m 37.5m 75m
Scale 1: 750

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
NOT FOR CONSTRUCTION

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Project Designer	JEG
Project Architect	JEG
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Civil Engineer	Civil Engineer
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Equipment Planner	Colliers
Wayfinding	

Sheet Reviewer	Author

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	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-06-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	10333982
Original Issue	04/21/22

Sheet Name

OVERALL SITE MATERIALS PLAN

Sheet Number

L-2.2.2.401

Project Status

STAGE 3

LEGEND

- CONCRETE (PATHWAY)
- COLOURED CONCRETE (PEDESTRIAN & MAIN ENTRY)
- COLOURED CONCRETE MAIN ENTRY (DRIVEWAY)
- COLOURED CONCRETE (PEDESTRIAN CROSSING)
- COBBLESTONE
- ASPHALT PAVING
- TACTILE WARNING
- BIKE RACKS
- BOLLARD
- SMALL PEDESTRIAN LIGHTS RE: ELEC
- PEDESTRIAN STREET LIGHTS RE: ELEC
- ELECTRIC VEHICLE CHARGING STATION RE: ELEC
- DURESS STATION RE: ELEC
- ROCK SHINGLES
- CONCRETE BENCH
- CONCRETE STAIR
- CAST IN PLACE RETAINING WALL
- MOUNTABLE CURB
- PA PLANTING AREA

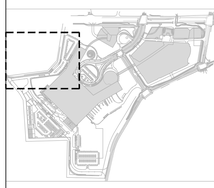
CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

HDR

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Project Number	103339862
Original Issue	04/21/22

Sheet Name

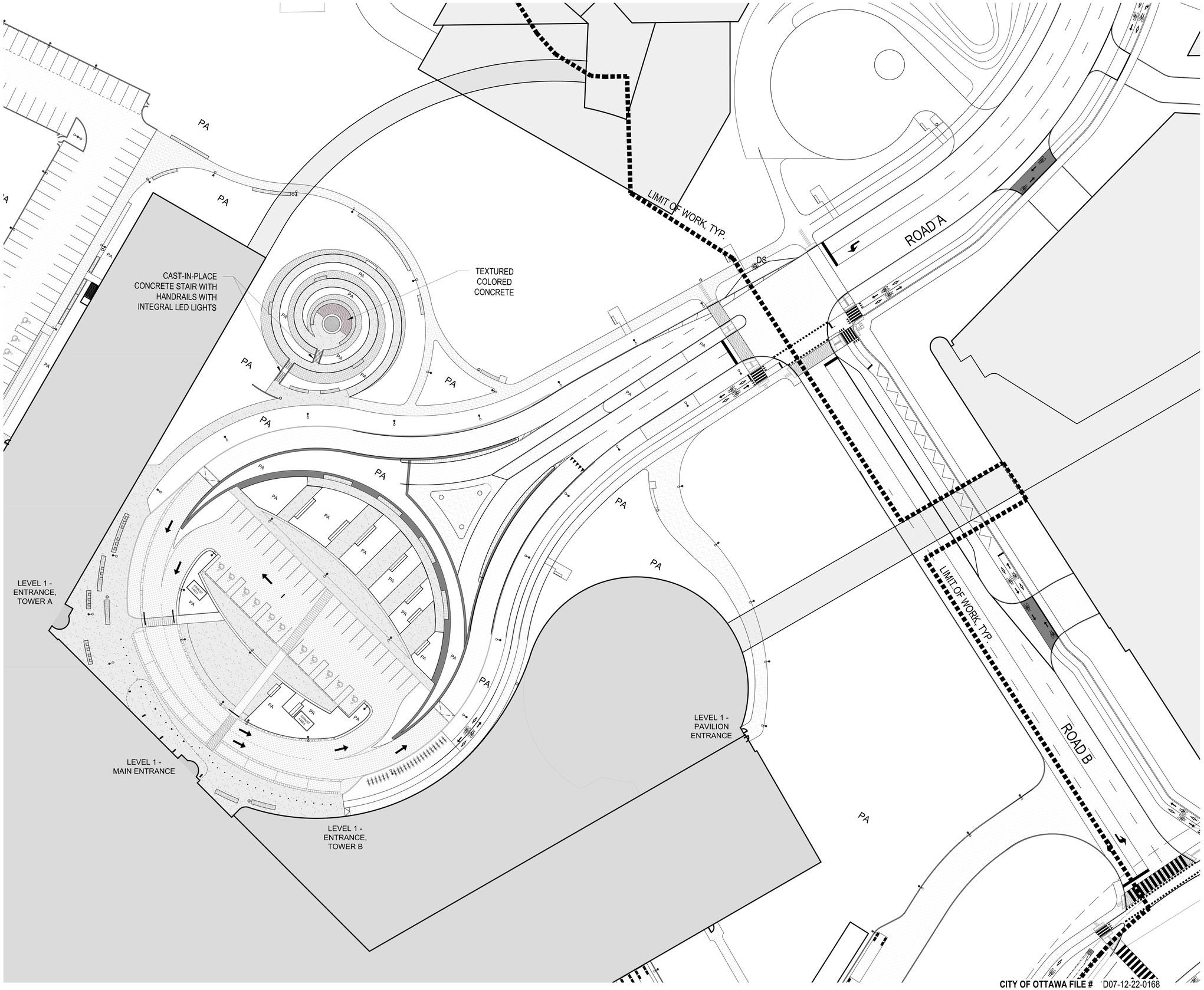
SITE MATERIALS
ENLARGEMENT

Sheet Number

L-2.2.2.402

Project Status

STAGE 3



LEGEND

- CONCRETE (PATHWAY)
- COLOURED CONCRETE (PEDESTRIAN & MAIN ENTRY)
- COLOURED CONCRETE MAIN ENTRY (DRIVEWAY)
- COLOURED CONCRETE (PEDESTRIAN CROSSING)
- COBBLESTONE
- ASPHALT PAVING
- TACTILE WARNING
- BIKE RACKS
- BOLLARD
- SMALL PEDESTRIAN LIGHTS RE: ELEC
- PEDESTRIAN STREET LIGHTS RE: ELEC
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- DURESS STATION RE: ELEC
- ROCK SHINGLES
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HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
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THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	10333982
Original Issue	04/21/22

Sheet Name

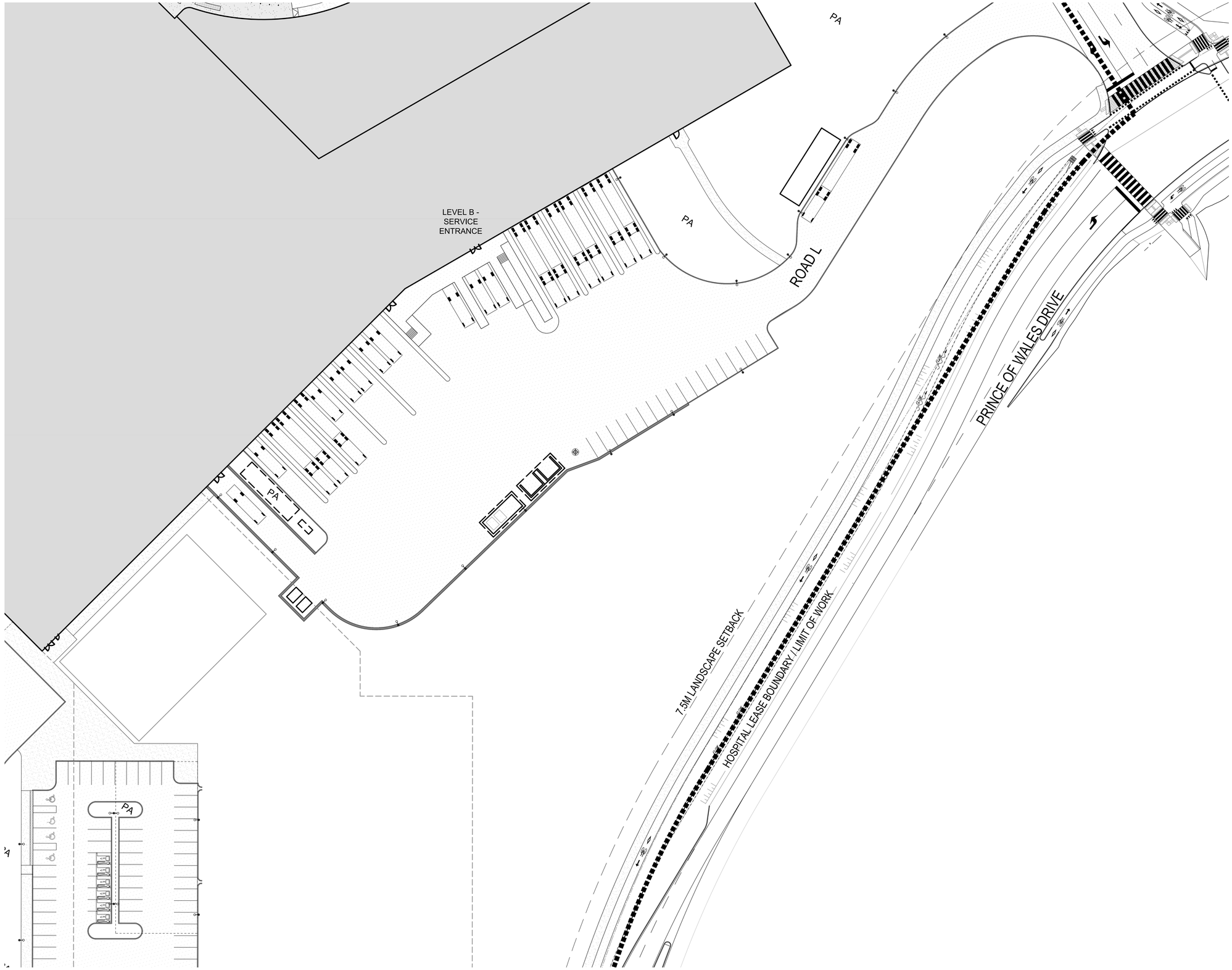
SITE MATERIALS ENLARGEMENT

Sheet Number

L-2.2.2.403

Project Status

STAGE 3



CONCRETE (PATHWAY)
COLOURED CONCRETE (PEDESTRIAN & MAIN ENTRY)
COLOURED CONCRETE MAIN ENTRY (DRIVEWAY)
COLOURED CONCRETE (PEDESTRIAN CROSSING)
COBBLESTONE
ASPHALT PAVING
TACTILE WARNING
BIKE RACKS
BOLLARD
SMALL PEDESTRIAN LIGHTS RE: ELEC
PEDESTRIAN STREET LIGHTS RE: ELEC
ELECTRIC VEHICLE CHARGING STATION RE: ELEC
DURESS STATION RE: ELEC
ROCK SHINGLES
CONCRETE BENCH
CONCRETE STAIR
CAST IN PLACE RETAINING WALL
MOUNTABLE CURB
PA PLANTING AREA

PLAN NORTH
TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR

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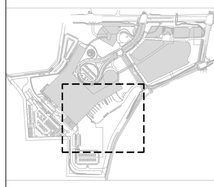

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Project Number	103339982
Original Issue	04/21/22

Sheet Name

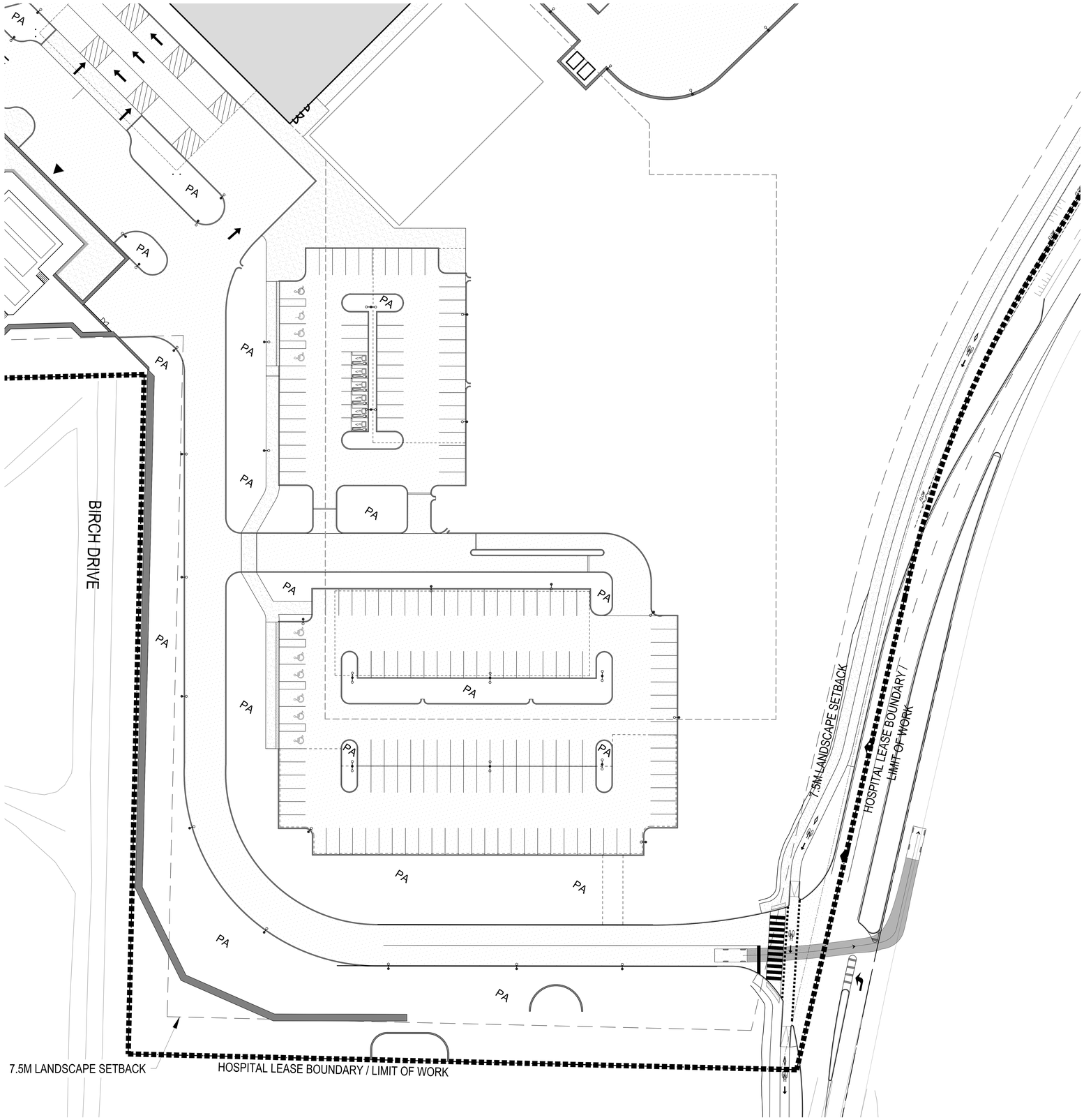
SITE MATERIALS
ENLARGEMENT

Sheet Number

L-2.2.2.404

Project Status

STAGE 3



LEGEND

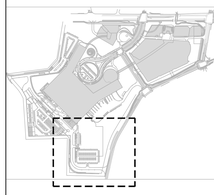
- CONCRETE (PATHWAY)
- COLOURED CONCRETE (PEDESTRIAN & MAIN ENTRY)
- COLOURED CONCRETE MAIN ENTRY (DRIVEWAY)
- COLOURED CONCRETE (PEDESTRIAN CROSSING)
- COBBLESTONE
- ASPHALT PAVING
- TACTILE WARNING
- BIKE RACKS
- BOLLARD
- SMALL PEDESTRIAN LIGHTS RE: ELEC
- PEDESTRIAN STREET LIGHTS RE: ELEC
- ELECTRIC VEHICLE CHARGING STATION RE: ELEC
- DURESS STATION RE: ELEC
- ROCK SHINGLES
- CONCRETE BENCH
- CONCRETE STAIR
- CAST IN PLACE RETAINING WALL
- MOUNTABLE CURB
- PA PLANTING AREA

PLAN NORTH
TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

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Project Number	103339862
Original Issue	04/21/22

PRELIMINARY
NOT FOR CONSTRUCTION

Sheet Name

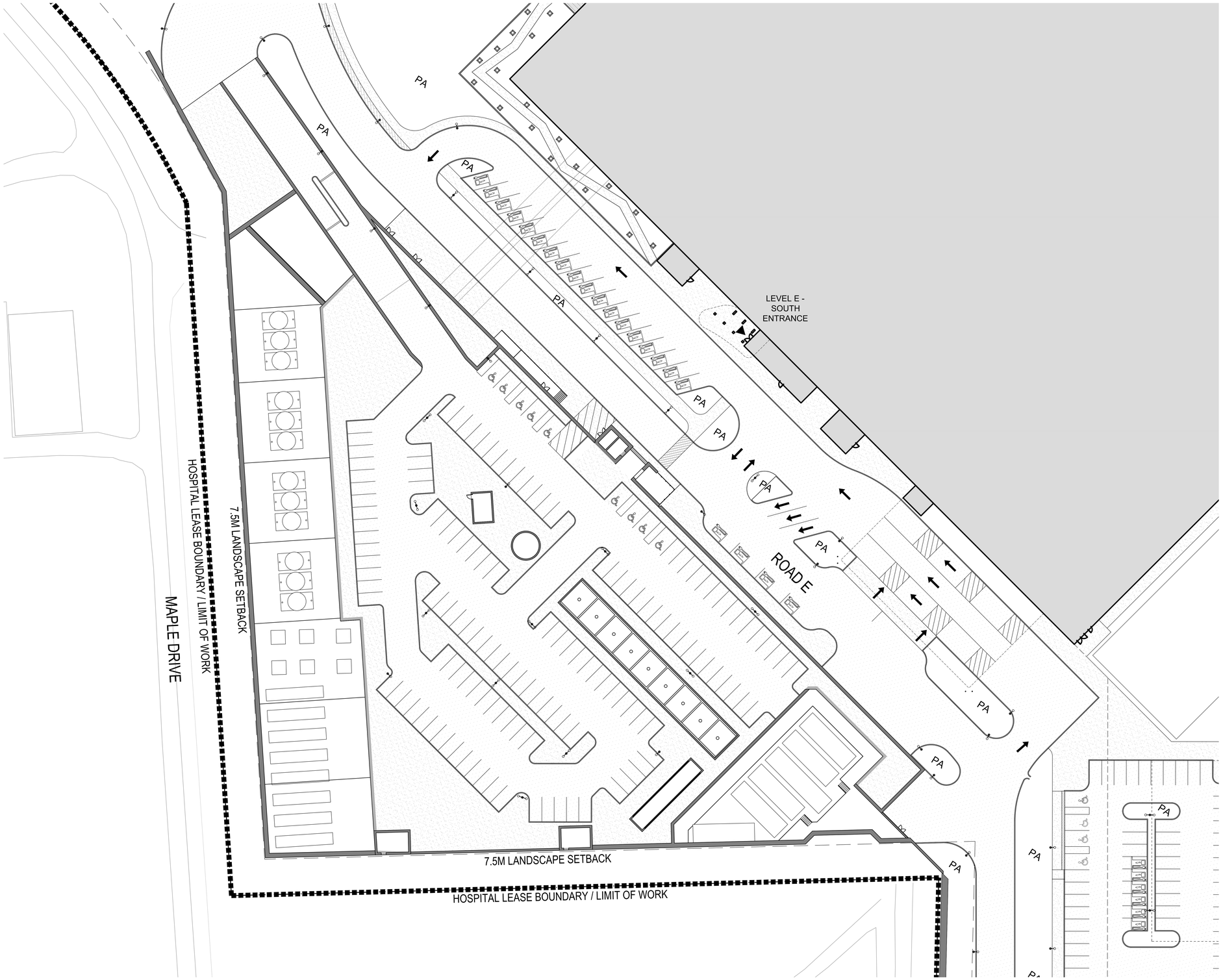
SITE MATERIALS ENLARGEMENT

Sheet Number

L-2.2.2.405

Project Status

STAGE 3



LEGEND

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- TACTILE WARNING
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- BOLLARD
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- PEDESTRIAN STREET LIGHTS RE: ELEC
- ELECTRIC VEHICLE CHARGING STATION RE: ELEC
- DURESS STATION RE: ELEC
- ROCK SHINGLES
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- CAST IN PLACE RETAINING WALL
- MOUNTABLE CURB
- PA — PLANTING AREA

PLAN NORTH
TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
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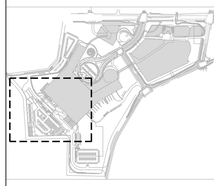

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Interior Designer	Interior Designer
Equipment Planner	Collars
Wayfinding	
Sheet Reviewer	Author

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Project Number	103339982
Original Issue	04/21/22

Sheet Name

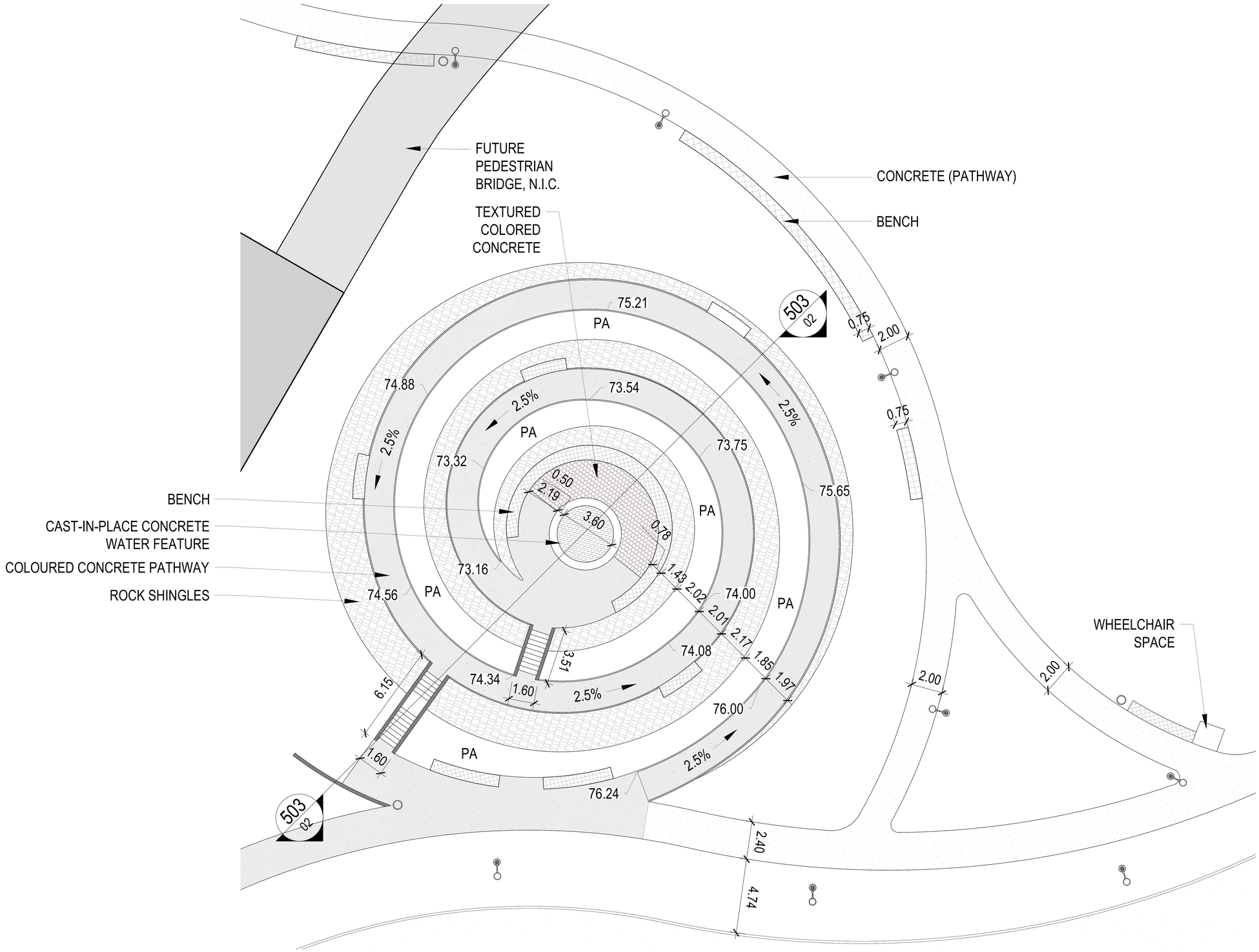
SITE MATERIALS ENLARGEMENT

Sheet Number

L-2.2.2.406

Project Status

STAGE 3



LEGEND

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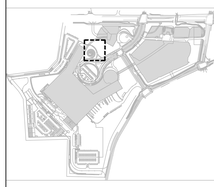

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
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Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

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Project Number	103339982
Original Issue	04/21/22

Sheet Name

CONTEMPLATION GARDEN ENLARGEMENT

Sheet Number

L-2.2.2.451

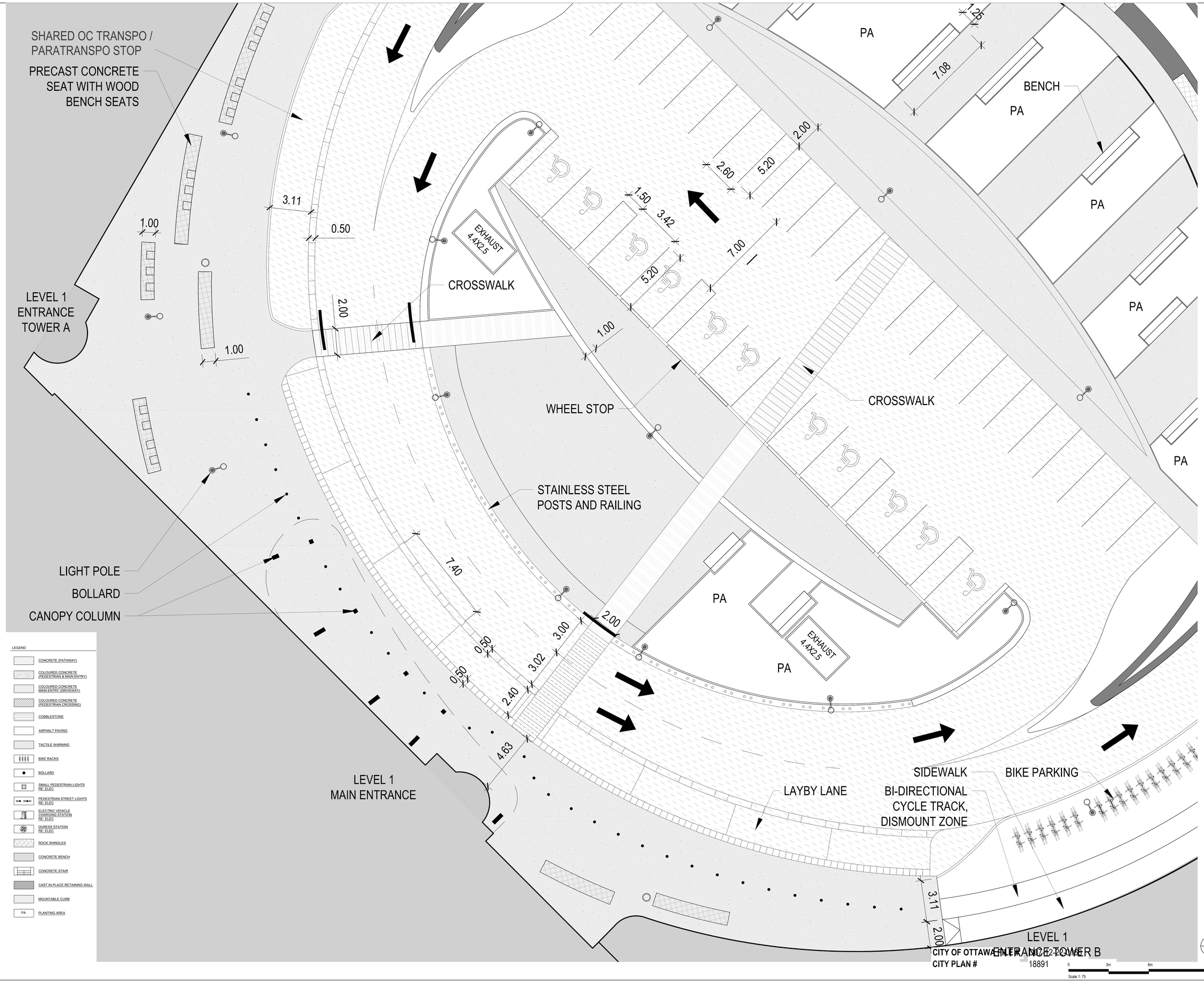
Project Status

STAGE 3

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

0 3m 6m 12m
Scale 1: 75



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CITY OF OTTAWA FILE NUMBER
CITY PLAN # 18891

HDR Architecture Associates Inc.
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THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Wayfinding	

Sheet Reviewer	Author

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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339982
Original Issue	04/21/22

Sheet Name

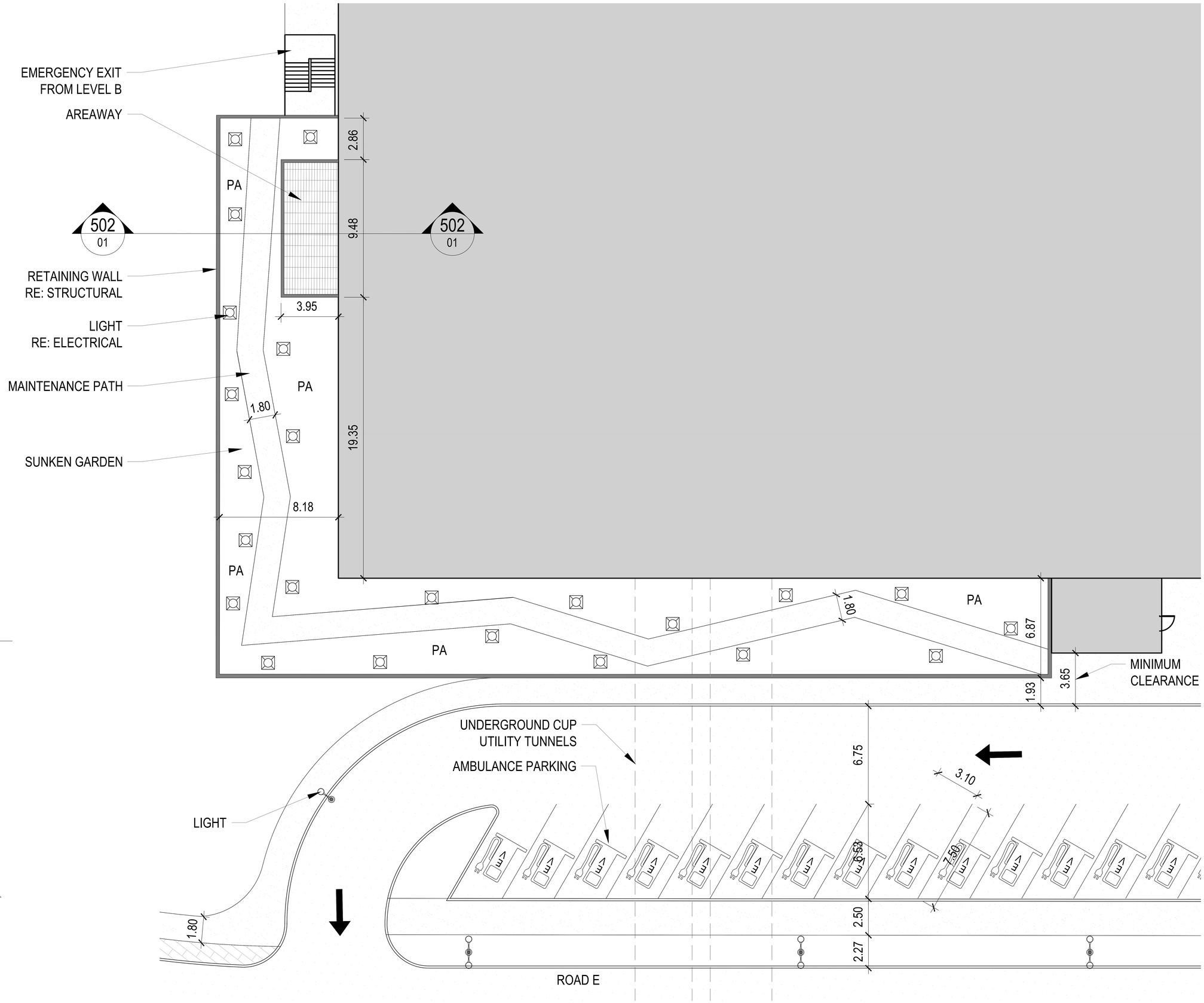
MAIN ENTRY ENLARGEMENT

Sheet Number

L-2.2.2.452

Project Status

STAGE 3



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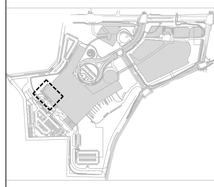
CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

TRUE NORTH PLAN NORTH

0 3m 6m 12m
Scale 1: 75

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Wayfinding	

Sheet Reviewer Author

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Project Number 10333982
Original Issue 04/21/22

Sheet Name

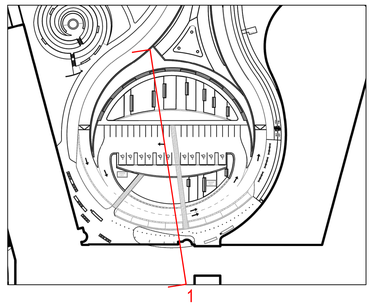
SUNKEN GARDEN
ENLARGEMENT

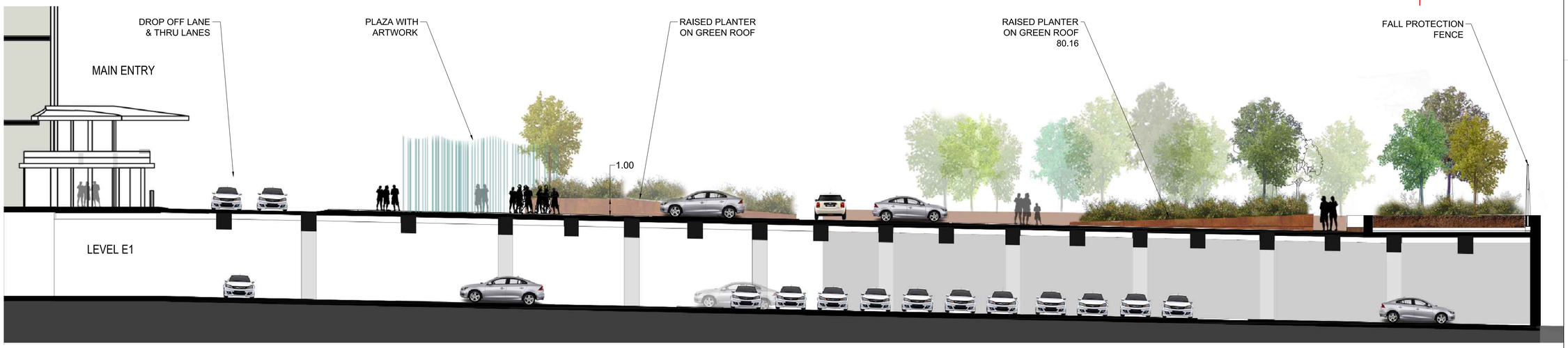
Sheet Number

L-2.2.2.453

Project Status

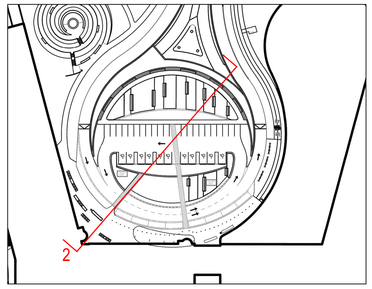
STAGE 3

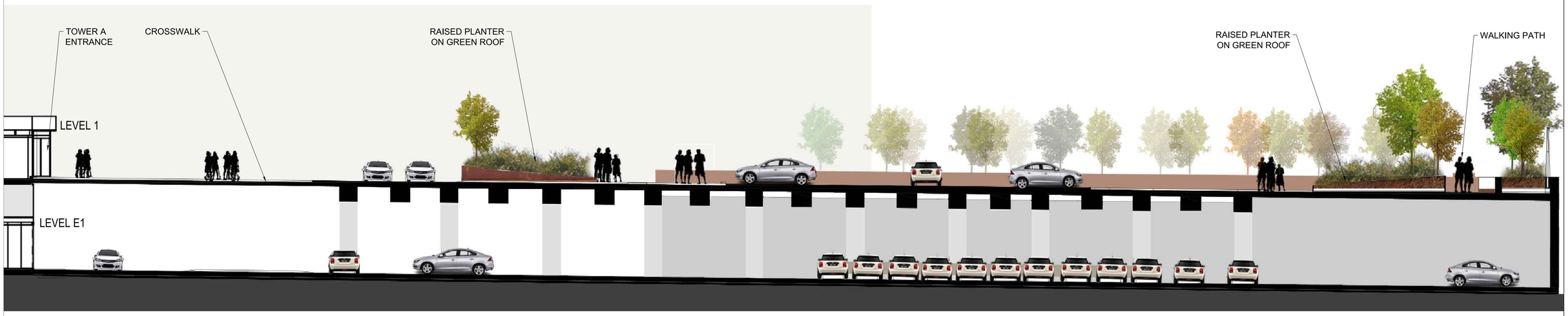




01.MAIN PLAZA SECTION

SCALE 1:75





02.TOWER A ENTRANCE / MAIN PLAZA SECTION

SCALE 1:75

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
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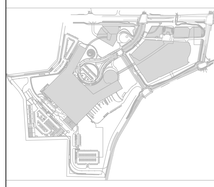

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Project Number	10333982
Original Issue	04/21/22

Sheet Name

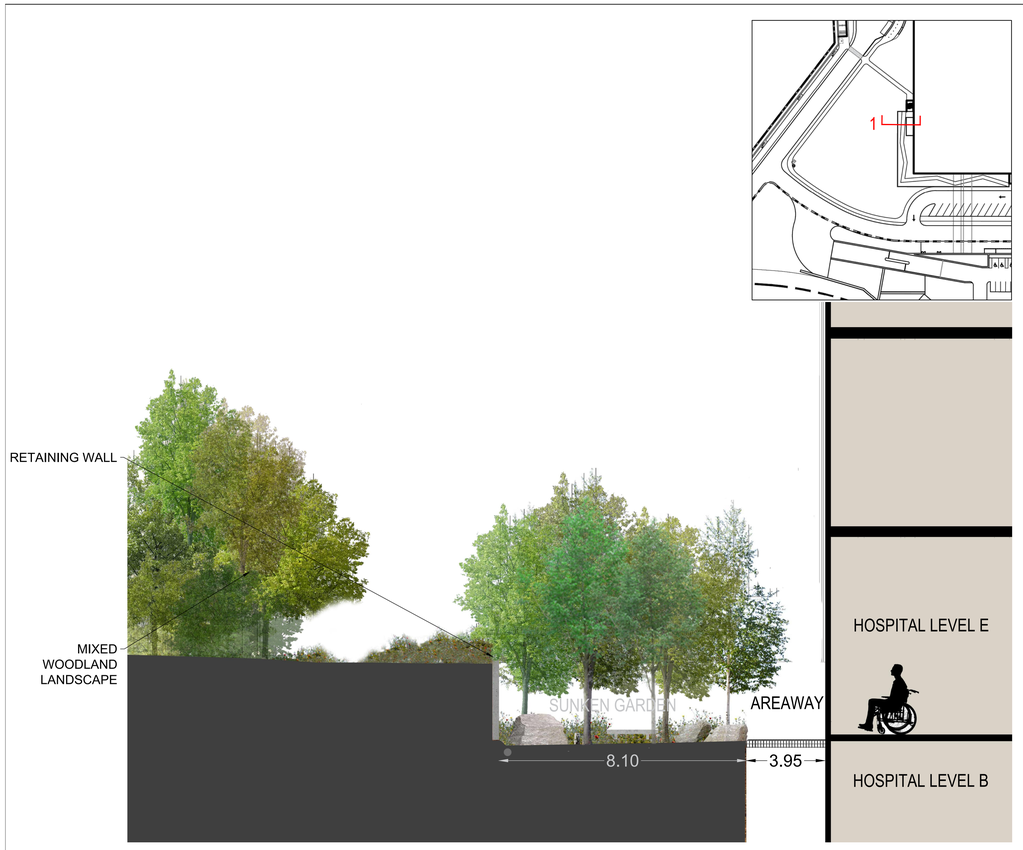
SITE SECTIONS

Sheet Number

L-2.2.2.501

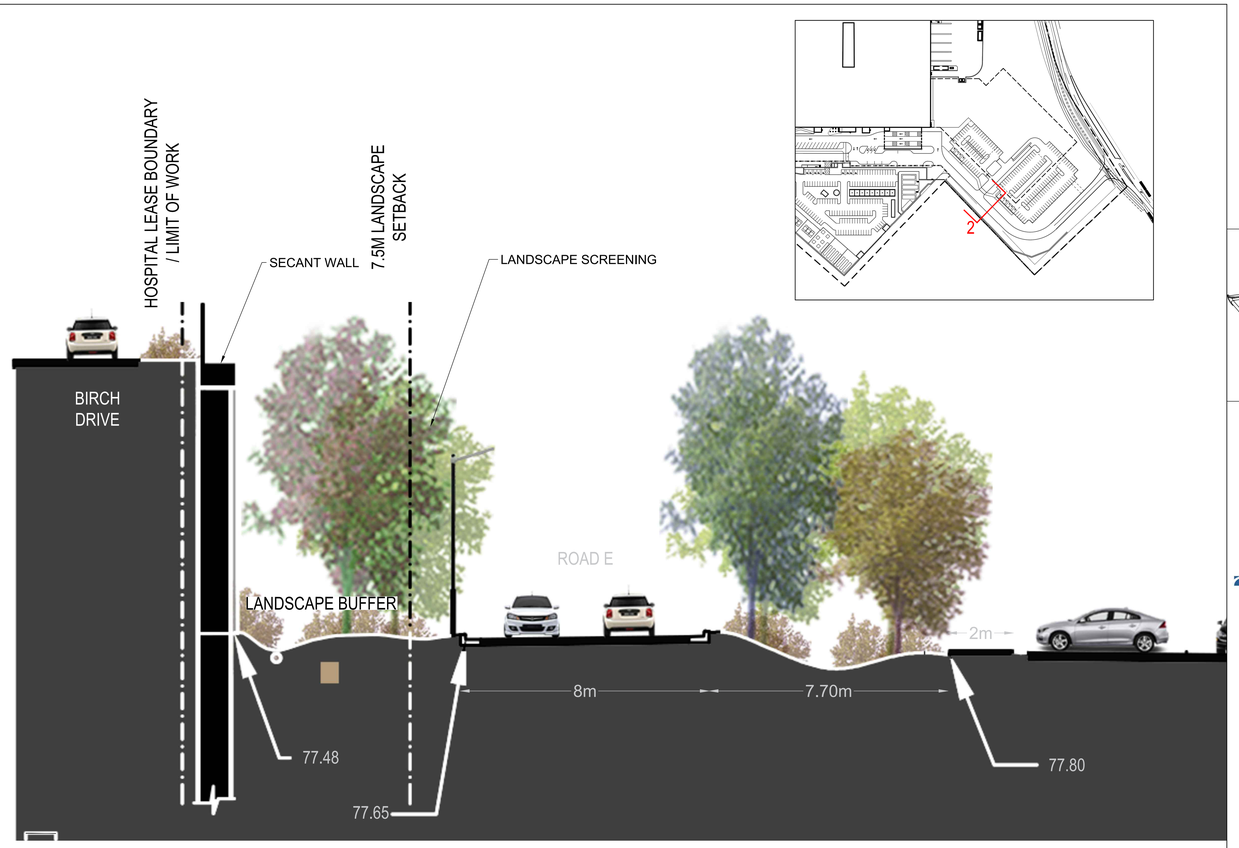
Project Status

STAGE 3



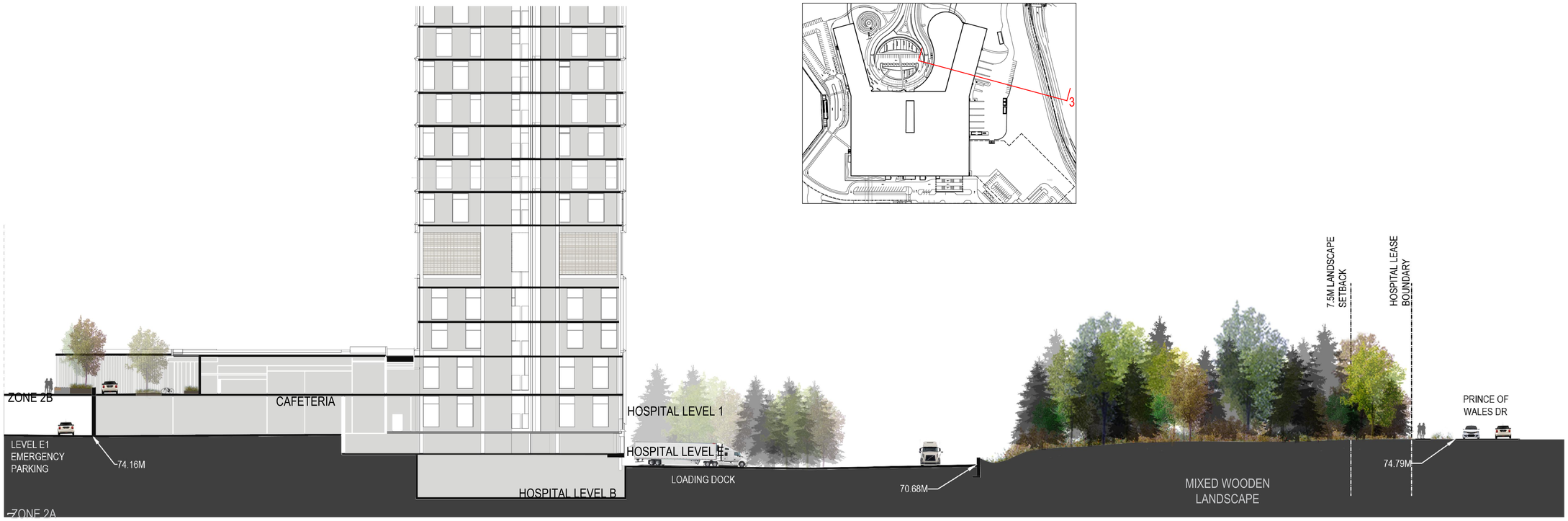
01. SUNKEN GARDEN SECTION

SCALE 1:60



02. ROAD E RETAINING WALL SECTION

SCALE 1:60



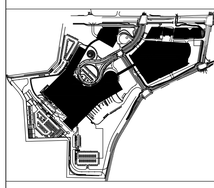
03.LOADING DOCKS- LONG SECTION

SCALE 1:250

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

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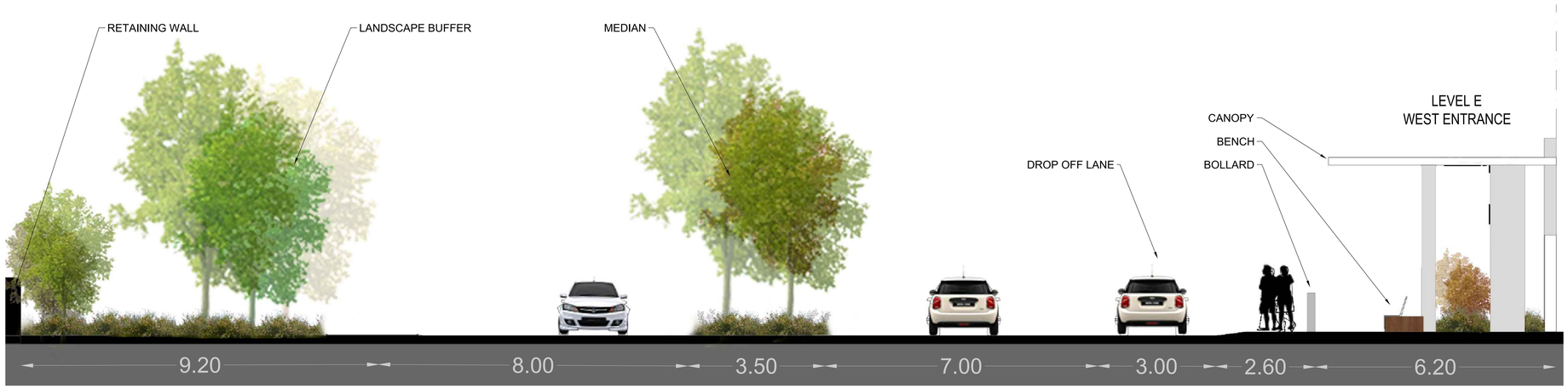
Project Number 103339882
Original Issue 04/21/22

Sheet Name
SITE SECTIONS

Sheet Number
L-2.2.2.502

Project Status
STAGE 3



01.WEST ENTRANCE SECTION

SCALE 1:40

02.CONTEMPLATION GARDEN SECTION

SCALE 1:40

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
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THE OTTAWA HOSPITAL
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Project Number	103339862
Original Issue	04/21/22

Sheet Name

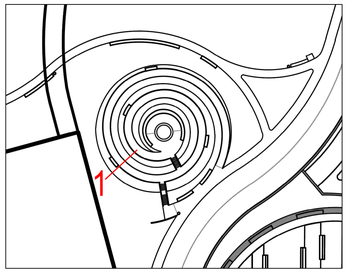
SITE SECTIONS

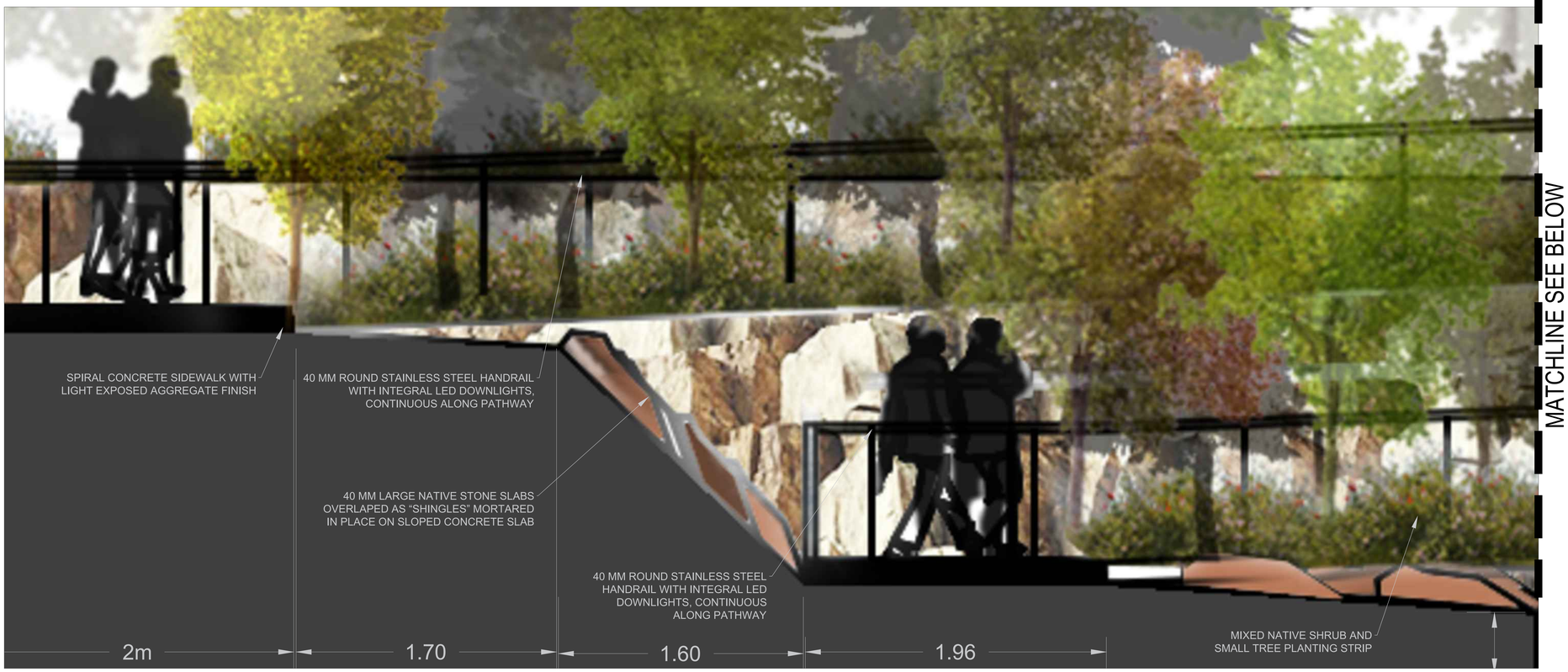
Sheet Number

L-2.2.2.503

Project Status

STAGE 3

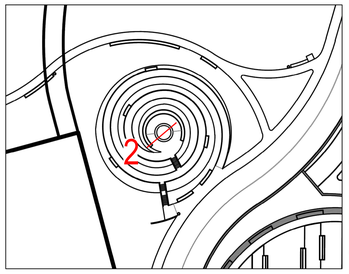




MATCHLINE SEE BELOW

01.CONTEMPLATION GARDEN

SCALE 1:10



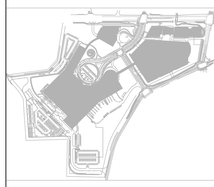
MATCHLINE SEE ABOVE

02.CONTEMPLATION GARDEN

SCALE 1:10

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
	2022-09-30	ISSUED FOR PRE-CONSULTATION
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339S2
Original Issue	04/21/22

Sheet Name

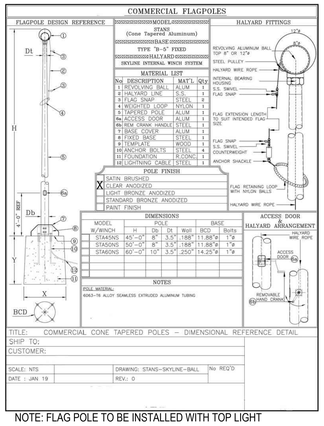
SITE SECTIONS

Sheet Number

L-2.2.2.504

Project Status

STAGE 3



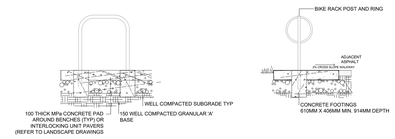
NOTE: FLAG POLE TO BE INSTALLED WITH TOP LIGHT

9 FLAG POLE

6 GREEN ROOF TABLES AND CHAIRS

3 SEAT WALL WITH WOOD TOP

5 SOLID STAPLE BENCHES

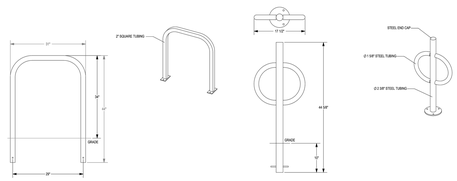


2 CONCRETE PAD FOR BIKE RACK
NTS

7 SOLID SEAT BLOCKS

8 MONOLINE LITTER BIN

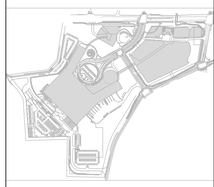
4 ROUGH AND READY SEAT WALLS



1 SHORT TERM BIKE PARKING RACKS
NTS

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
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	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103335982
Original Issue	04/21/22

Sheet Name

SITE DETAILS

Sheet Number

L-2.2.2.601

Project Status
STAGE 3

MASTER GROUND PLANE PLANT LIST

Botanical Name	Common Name	"Cont./ Cal. Size"	Root Condition	Potential Mature Tree Size (Meters)		Native	Field Condition	Salt Tolerance	Wet/Dry Tolerance	Sun/Shade Tolerance	Street Trees	Remarks	SPREAD AT MATURITY
Shade Trees	Shade Trees			Height	Spread	Y/N		T-Tolerant, M-Medium S-Sensitive			Y/N		
Acer nigrum	Black Maple	50mm	B & B	20	14	Y	Single Stem	S	Wet/Dry	Sun/Shade			9.3380
Acer rubrum	Red Maple	50mm	B & B	20	15	Y	Single Stem	S	Wet/Dry	Sun/Pt Shade			10.0050
Acer saccharinum	Silver Maple	50mm	B & B	24	24	Y	Single Stem	M/S	Wet/Moist	Full Sun			16.0080
Acer saccharum	Sugar Maple	50mm	B & B	20	15	Y	Single Stem	S	Moist to average	Full Sun	Y		10.0050
Carya cordiformis	Bitternut Hickory	50mm	B & B	20	10	Y	Single Stem	M	Moist/Dry	Pt Shade			6.6700
Carya ovata	Shagbark Hickory	50mm	B & B	20	20	Y	Single Stem	M	Moist to average	Full Sun/Pt Shade			13.3400
Catalpa sp.	Northern Catalpa	50mm	B & B	15	15	N	Single Stem	S	Moist/Dry	Sun	N	Carolinian species	10.0050
Fagus grandifolia	American Beech	50mm	B & B	22	18	Y	Single Stem	S	Dry-Moist	Sun-Part Shade		Carolinian Sp.	12.0060
Ginkgo biloba	Ginkgo	50mm	B & B	15	8	N	Single Stem	T	Moist/Dry	Sun/Pt Shade			5.3360
Gleditsia triacanthos	Honey Locust	50mm	B & B	18	16	Y	Single Stem	T	Moist to average	Sun/Pt Shade	Y		10.6720
Gymnocladus dioica	Kentucky Coffeetree	50mm	B & B	20	14	Y	Single Stem	T	Moist to average	Full Sun	Y		9.3380
Juglans nigra	Black Walnut	50mm	B & B	25	20	Y	Single Stem	S	Wet/Moist	Full Sun			13.3400
Juglans cinerea	Butternut	50mm	B & B	18	12	Y	Single Stem		Wet/Moist	Full Sun			8.0040
Liriodendron tulipfera	Tulip Poplar	50mm	B & B	25	15	N	Single Stem	S	Moist/Dry	Full Sun	N	Carolinian species	10.0050
Populus x canadensis	Canada Poplar	50mm	B & B	20	17	N	Multi-Stem	T	Moist-Wet	Sun		50% rating -Quebec Study; Difficult to locate.	11.3390
Prunus serotina	Black Cherry	50mm	B & B	20	10	Y	Single Stem	S	Moist	Full Sun			6.6700
Quercus alba	White Oak	50mm	B & B	25	25	Y	Single Stem	T	Moist/Dry	Full Sun			16.6750
Quercus macrocarpa	Burr Oak	50mm	B & B	20	20	Y	Single Stem	T	Moist/Dry	Full Sun	Y		13.3400
Quercus rubra	Red Oak	50mm	B & B	24	24	Y	Single Stem	T	Moist/Dry	Full Sun	Y		16.0080
Sassafras albidium	Sassafras	50mm	B & B	15	9		Single Stem	S	Moist/Dry	Sun/Shade		Carolinian species	6.0030
Tilia americana	Basswood	50mm	B & B	15	15	Y	Single Stem	S/M	Moist/Dry	Sun/Partical Shade	Y		10.0050
Ulmus americana spp	American Elm cultivar	50mm	B & B	25	20	Y	Single Stem	T	Moist/Dry	Sun/Partical Shade	Y		13.3400
Medium Trees	**Medium Trees**	**Cont./Cal. Size**	**Root Condition**	**Height (Meters)**	**Spread (Meters)**	**Native**	**Field Cond.**	**Salt Tolerance**	**Wet/Dry Tolerance**	**Sun/Shade Tolerance**	**Street Trees**	**Remarks**	
Acer pensylvanicum	Striped Maple	50mm	B & B	7	5	Y	Multi-Stem		Wet-Moist	Part Sun/Shade			3.3350
Aesculus glabra	Ohio Buckeye	50mm	B & B	8	6	Y	Single Stem	T	Dry-Moist	Sun-Part Shade			4.0020
Aesculus hippocastanum	Horse Chestnut	50mm	B & B	16	12	Y	Single Stem	T	Moist/Dry	Full Sun/Pat Shade			8.0040
Betula lenta	Sweet Birch	50mm	B & B	20	14	Y	Multi-Stem	M	Wet-Moist	Sun			9.338000
Betula neoalaskana	Alaska Birch	50mm	B & B	15	11	Y	Multi-Stem	S	Wet			Difficult to locate in nurseries	7.337000
Betula nigra	River Birch Multi-Trunk	50mm	B & B	15	11	Y	Multi-Stem	S	Moist	Sun/Part Shade			7.3370
Betula papyrifera	Paper Birch	50mm	B & B	20	14	Y	Multi-Stem	S	Dry-Moist	Sun/Part Shade			9.3380
Betula populifolia	Gray Birch	50mm	B & B	10	6	Y	Multi-Stem	T/M	Dry-Wet	Sun			4.0020
Carpinus caroliniana	Blue -Beech	50mm	B & B	8	7	Y	Single Stem	-	Moist	Part Sun/Shade			4.6690
Celtis occidentalis	Common Hackberry	50mm	B & B	15	8	Y	Single Stem	T/M	Moist-Dry	Part Sun/Shade	Y		10.0050
Ostrya virginiana	American Hophornbeam	50mm	B & B	12	8	Y	Single Stem	T	Moist	Sun/Shade			5.3360
Populus tremuloides	Quaking Aspen	50mm	B & B	12	8	Y	Multi-Stem	T/M	Moist-Wet	Sun/Part Shade			5.3360
Evergreen Trees	**Evergreen Trees**	**Height (cm)**	**Root Condition**	**Height (Meters)**	**Spread (Meters)**	**"Native to Ontario/ Non-native"**	**Field Cond.**	**Salt Tolerance**	**Wet/Dry Tolerance**	**Sun/Shade Tolerance**	**Street Trees**	**Remarks**	
Juniperus virginiana	Eastern Redcedar	200cm	B & B	15	6	Y	Single Stem	T	Dry-Moist	Sun			4.0020
Larix laricina	Tamarack	200cm	B & B	20	10	Y	Single Stem	T	Dry-Wet	Sun			6.6700
Picea glauca	White Spruce	200cm	B & B	22	10	Y	Single Stem	T	Dry-Moist	Sun		Mixed, 5 gal. to 1800mm	6.6700
Pinus strobus	White Pine	200cm	B & B	20	7	Y	Single Stem	S	Dry-Moist	Sun			4.6690
Thuja occidentalis	Northern White-Cedar	200cm	B & B	12	4	Y	Single Stem	M	Dry-Moist	Sun			2.6680
Abies concolor	White Fir	200cm	B & B	15	5		Single Stem	S	Dry-Moist	Sun/Part Shade			3.3350
Picea pungens	Blue Spruce	200cm	B & B	20	8		Single Stem	T	Moist	Sun/Part Shade			5.3360
Tsuga canadensis	Eastern Hemlock	200cm	B & B	20	12	Y	Single Stem	S	Dry-Wet	Sun/Part Shade			8.0040
Small Trees	**Small Trees**	**Cont./Cal. Size**	**Root Condition**	**Mature Height**	**Mature Spread**	**"Native to Ontario/ Non-native"**	**Field Cond.**	**Salt Tolerance**	**Wet/Dry Tolerance**	**Sun/Shade Tolerance**	**Street Trees**	**Remarks**	
Acer spicatum	Mountain Maple	50mm	B & B	6	4	Y	Multi-Stem	S	Dry-Moist	Part Sun			2.6680
Amelanchier canadensis	Canadian Serviceberry	50mm	B & B	7	4	Y	Multi-Stem	S	Dry-Wet	Sun-Shade	Y		2.6680
Asimina triloba	Paw Paw Tree	50mm	B & B	7	3	Y	Multi-Stem	S	Moist	Sun-Shade		Carolinian sp.	2.0010
Cercis canadensis	Eastern Redbud	50mm	B & B	9	11	Y	Multi-Stem	S	Moist	Sun/Part Shade			7.3370
Cornus alternifolia	Alternate-leaved Dogwood	50mm	B & B	7	11	Y	Multi-Stem	M	Moist-Wet	Sun/Shade			7.3370
Crataegus crus-galli inermis	Thornless Hawthorn	50mm	B & B	7	7	Y	Single Stem		Dry-Moist	Sun	Y		4.6690
Malus spp.	Crabapple cultivar	50mm	B & B	8	8	N	Single Stem		Dry-Moist	Sun	Y		5.3360
Prunus virginiana	Chokecherry	50mm	B & B	7	6		Single Stem		Dry	Part Sun/Shade			4.6690
Prunus nigra	Canada Plum	50mm	B & B	6	3	Y	Single Stem					Difficult to find	2.0010
Sorbus americana	American Mountain Ash	50mm	B & B	7	5	Y	Single Stem		Moist	Sun			3.3350
Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	50mm	B & B	8	5	N	Single Stem	M	Dry-Moist	Sun/Part Shade	Y		3.3350
Viburnum lentago	Nannyberry	50mm	B & B	3	3	Y	Multi-Stem		Dry-Moist	Sun/Shade			2.0010
Shrubs	**Shrubs**	**Cont./Cal. Size**	**Root Condition**			**Native**		**Salt Tolerance**		**Sun/Shade Tolerance**		**Remarks**	
Aronia arbutifolia	Red Chokeberry	20L	Cont					T		Sun/P Shade			
Ceanothus americanus	New Jersey Tea	20L	Cont					T		Sun/P Shade			
Cephalanthus occidentalis 'SMCOSS' TM	Sugar Shack Buttonbush	20L	Cont					T		Sun/P Shade			
Comptonia peregrina	Sweet Fern	10L	Cont					T		Sun/P Shade			
Cornus sericea	Red Twig Dogwood	10L	Cont					T		Sun/P Shade			
Hamamelis virginiana	Common Witch Hazel	20L	Cont					T		Sun/P Shade			
Ilex verticillata	Winterberry	10L	Cont					S		Sun/P Shade			
Itea virginica 'SMNIVDFC' TM	Scentlandia Sweetspire	20L	Cont					T		Sun/P Shade			
Lindera benzoin	Spicebush	20L	Cont					T		Sun/P Shade			
Physocarpus opulifolius	Ninebark	20L	Cont					T		Sun/P Shade			
Rhododendron viscosum	Swamp Azalea	20L	Cont					T		Sun/P Shade			
Rhus typhina	Staghorn Sumac	10L	Cont					T		Sun/P Shade			
Symphoricarpos albus	Common White Snowberry	20L	Cont					M		Sun/P Shade			
Taxus canadensis	Canadian Yew	10L	Cont							Sun/P Shade			
Vaccinium angustifolium	Lowbush Blueberry	10L	Cont			Y		M		Sun/P Shade			
Viburnum acerifolium	Mapleleaf Viburnum	10L	Cont							Sun/P Shade			
Viburnum dentatum 'Arrowwood'	Arrowwood Viburnum	20L	Cont					T		Sun/P Shade			
Viburnum lantanoides	Hobblebush	20L	Cont			Y		S		Sun/P Shade			
Viburnum lentago	Nannyberry	20L	Cont			Y		T		Sun/P Shade			
Viburnum nudum 'Cassinoides'	Wild Raisin	20L	Cont			Y		S		Sun/P Shade			
Aronia melanocarpa	Black Chokeberry					Y							
Ground Covers	**Ground Covers**	**Spacing**											
Andropogon gerardii	Big Bluestem	450mm O.C.											
Aquilegia canadensis	Eastern Columbine	450mm O.C.											
Arctostaphylos uva-ursi	Kinnikinnick	450mm O.C.											
Asarum canadense	Wild Ginger	450mm O.C.											
Aster alpinus	Alpine Aster	450mm O.C.											
Bouteloua curtipendula	Side Oats Grama	450mm O.C.											
Calamagrostis canadensis	Bluejoint Grass	450mm O.C.											
Carex albursina	White Bear Sedge	450mm O.C.											
Carex eburnea	Bristleleaf Sedge	450mm O.C.											
Carex platyphylla	Broadleaf Sedge	450mm O.C.											
Chasmanthium latifolium	Northern Sea Oats	450mm O.C.											
Comptonia peregrina	Sweet Fern	450mm O.C.											
Cornus canadensis	Bunchberry Dogwood	450mm O.C.											
Deschampsia cespitosa	Tufted Hair Grass	450mm O.C.											
Elymus hystrix	Bottebrush Grass	450mm O.C.											
Elymus riparius	Riverbank Rye	450mm O.C.											
Festuca saximontana	Rocky Mountain Fescue	450mm O.C.											
Fragaria vesca	Woodland Strawberry	450mm O.C.											
Gaultheria procumbens	Wintergreen	450mm O.C.											
Hierochloe odorata	Sweetgrass	450mm O.C.											
Iris sibirica	Siberian Iris	100mm pot											
Juncus effusus pylaei	Soft Rush	450mm O.C.											
Maianthemum canadense	Canada Mayflower	450mm O.C.											
Mitchella repens	Partridge Berry	450mm O.C.											
Panicum virgatum	Switch Grass	450mm O.C.											
Schizachyrium scoparium	Little Bluestem	450mm O.C.											
Solidago canadensis	Goldenrod	450mm O.C.											
Sorghastrum nutans	Indian Grass	450mm O.C.											
Spartina pectinata	Prairie Cordgrass	450mm O.C.											
Sporobolus heterolepis	Prairie Dropseed	450mm O.C.											
Trillium ovatum	Coast Trillium	450mm O.C.											

MASTER GREEN ROOF PLANT LIST

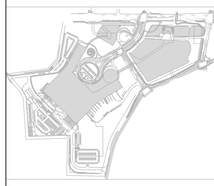
Botanical Name	Common Name	Cont./ Cal. Size	Height (cm)	Root Condition	Potential Tree Mature Size		Native to Ontario/ Non-native	Field Condition	Salt Tolerance		Remarks
Shade Trees					**Height**	**Spread**	Y- Native, or Native Cultivar; N-Non-native		T-Tolerence M-Medium S-Sensitive		
Acer pensylvanicum	Striped Maple		200cm	B & B			Y	Multi-Stem			
Betula lenta	Sweet Birch		200cm	B & B			Y	Multi-Stem	M		
Betula neoalaskana	Alaska Birch		200cm	B & B			Y	Multi-Stem	S		
Betula nigra	River Birch Multi-Trunk		200cm	B & B			Y	Multi-Stem	S		
Betula papyrifera	Paper Birch		200cm	B & B	16m	11m	Y	Multi-Stem	S		
Betula populifolia	Gray Birch		200cm	B & B			Y	Multi-Stem	T/M		
Celtis occidentalis	Common Hackberry		200cm	B & B			Y	Single Stem	T/M		
Ostrya virginiana	American Hophornbeam		50mm	B & B	12m	8m	Y	Single Stem	T		
Populus tremuloides	Quaking Aspen		200cm	B & B			Y	Multi-Stem	T/M		
Populus x canadensis	Canada Poplar		200cm	B & B				Multi-Stem			
Carpinus caroliniana	Blue -Beech				8m	7m					
Fagus grandifolia	American Beech						Y				
Sorbus americana	American Mountain Ash						Y				
Evergreen Trees		**Cont./Cal. Size**	**Height (cm)**	**Root Condition**	**Height**	**Spread**	**Native to Ontario/ Non-native**	**Field Cond.**	**Salt Tolerance**		**Remarks**
Juniperus virginiana	Eastern Redcedar		200cm	B & B	15m	6m	Y	Single Stem	T		
Larix laricina	Tamarack		200cm	B & B	20m	10m	Y	Single Stem	T		
Picea glauca	White Spruce		200cm	B & B			Y	Single Stem	T		Mixed, 5 gal. to 1800mm
Pinus strobus	White Pine		200cm	B & B	20m	7m	Y	Single Stem	S		
Thuja occidentalis	Northern White-Cedar		200cm	B & B	12m	4m	Y	Single Stem	M		
Tsuga canadensis	Eastern Hemlock		200cm	B & B			Y	Single Stem	S		
Abies concolor	White Fir		200cm	B & B				Single Stem	S		
Picea pungens	Blue Spruce		200cm	B & B				Single Stem	T		
Green Roof Shrubs		**Cont./Cal. Size**		**Root Condition**			**Native to Ontario/ Non-native**		**Salt Tolerance**	**Sun/Shade**	**Remarks**
Aronia arbutifolia	Red Chokeberry	20L		900-1200mm HT.					T	Sun/P Shade	
Ceanothus americanus	New Jersey Tea	20L		450-600mm HT.					T	Sun/P Shade	
Cephalanthus occidentalis 'SMCOSS' TM	Sugar Shack Buttonbush	20L		900-1200mm HT.					T	Sun/P Shade	
Comptonia peregrina	Sweet Fern	10L		300mm HT.					T	Sun/P Shade	
Cornus sericea	Red Twig Dogwood	10L		450-600mm HT.					T	Sun/P Shade	
Hamamelis virginiana	Common Witch Hazel	20L		900-1200mm HT.					T	Sun/P Shade	
Ilex verticillata	Winterberry	10L		450-600mm HT.					S	Sun/P Shade	
Itea virginica 'SMNIVDFC' TM	Scentlandia Sweetspire	20L		450-600mm HT.					T	Sun/P Shade	
Lindera benzoin	Spicebush	20L		900-1200mm HT.					T	Sun/P Shade	
Physocarpus opulifolius	Ninebark	20L		900-1200mm HT.					T	Sun/P Shade	
Rhododendron viscosum	Swamp Azalea	20L		450-600mm HT.					T	Sun/P Shade	
Rhus typhina	Staghorn Sumac	10L		450-600mm HT.					T	Sun/P Shade	
Symphoricarpos albus	Common White Snowberry	20L		450-600mm HT.					M	Sun/P Shade	
Taxus canadensis	Canadian Yew	10L		450-600mm HT.						Sun/P Shade	
Vaccinium angustifolium	Lowbush Blueberry	10L		450-600mm HT.					M	Sun/P Shade	
Viburnum acerifolium	Mapleleaf Viburnum	10L		900-1200mm HT.						Sun/P Shade	
Viburnum dentatum 'Arrowwood'	Arrowwood Viburnum	20L		900-1200mm HT.					T	Sun/P Shade	
Viburnum lantanoides	Hobblebush	20L		900-1200mm HT.			Y		S	Sun/P Shade	
Viburnum lentago	Nannyberry	20L		900-1200mm HT.			Y		T	Sun/P Shade	
Viburnum nudum 'Cassinoides'	Wild Raisin	20L		900-1200mm HT.			Y		S	Sun/P Shade	
Aronia melanocarpa	Black Chokeberry						Y				
Green Roof Ground Covers		**Spacing**									
Carex sprengellii	Long Beaked Sedge	450mm O.C.									
Sporobolus vaginiflorus	Poverty Grass	450mm O.C.									
Eleocharis compressa	Flatstem Spikerush	450mm O.C.									
Panicum philadelphicum	Philadelphia Panic Grass	450mm O.C.									
Schizachyrium scoparium	Little Bluestem	450mm O.C.									
Sporobolus heterolepis	Prairie Dropseed	450mm O.C.									
Sporobolus neglectus	Small Dropseed	450mm O.C.									
Antennaria neglecta	Prairie Pussytoes	450mm O.C.									
Geranium bicknellii	Bicknell's Cranesbill	450mm O.C.									
Geum triflorum	Prairie Smoke	450mm O.C.									
Micranthes virginiensis	Early Saxifrage	450mm O.C.									
Penstemon hirsutus	Hairy Beardtongue	450mm O.C.									
Ranunculus fascicularis	Early Buttercup	450mm O.C.									
Aquilegia canadensis	Eastern Red Columbine	450mm O.C.									
Clinopodium arkansanum	Limestone Calamint	450mm O.C.									
Dalea purpurea	Purple Prairie Clover	450mm O.C.									
Fragaria vesca	Wild Strawberry	450mm O.C.									
Ratibida pinnata	Grey headed Coneflower	450mm O.C.									
Hieracium piloselloides	Tall Hawkweed	450mm O.C.									
Houstonia canadensis	Canada Summer Bluet	450mm O.C.									
Houstonia longifolia	Long-leaved Bluet	100mm pot									
Solidago nemoralis	Grey Goldenrod	450mm O.C.									
Solidago ptarmicoides	Upland White Goldenrod	450mm O.C.									
Hedeoma	False Pennyroyal	450mm O.C.									
Antennaria neglecta	Prairie Pussytoes	450mm O.C.									
Penstemon hirsutus	Hairy Beardtongue	450mm O.C.									
Micranthes virginiensis	Early Saxifrage	450mm O.C.									
Ranunculus fascicularis	Early Buttercup	450mm O.C.									
Fragaria vesca	Wild Strawberry	450mm O.C.									
Aquilegia canadensis	Eastern Red Columbine	450mm O.C.									
Clinopodium arkansanum	Limestone Calamint	450mm O.C.									
Ratibida pinnata	Grey headed Coneflower	450mm O.C.									
Dalea purpurea	Purple Prairie Clover	450mm O.C.									
Geranium bicknellii	Bicknell's Cranesbill	450mm O.C.									
Phlox pilosa	Prairie	450mm O.C.									
Geum triflorum	Prairie Smoke	450mm O.C.									
Ranunculus fascicularis	Early Buttercup	450mm O.C.									
Hieracium piloselloides	Tall Hawkweed	450mm O.C.									
Houstonia canadensis	Canada Summer Bluet	450mm O.C.									
Houstonia longifolia	Long-leaved Bluet	450mm O.C.									
Solidago nemoralis	Grey Goldenrod	450mm O.C.									
Solidago ptarmicoides	Upland White Goldenrod	450mm O.C.									
Hedeoma	False Pennyroyal	450mm O.C.									

MASTER PLANT LIST NOTES

1. THIS IS A MASTER PLANT LIST OF SUITABLE SPECIES FOR USE ON THIS PROJECT. NOT EVERY SPECIES ON THIS LIST IS USED FOR THE SCHEMATIC PLANTING DESIGN SHOWN ON L-2.2.2.800 SERIES SHEETS. REFER TO THE OVERALL PLANTING PLAN AND PLANTING PLAN ENLARGEMENTS FOR SPECIES AND QUANTITIES.

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Collaris
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
	2022-09-30	ISSUED FOR PRE-CONSULTATION
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number 103339982
Original Issue 04/21/22

Sheet Name

MASTER PLANT LIST

Sheet Number

L-2.2.2.700

Project Status
STAGE 3

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SIZE	HABIT	REMARKS	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
AC NI	10	Acer nigrum / Black Maple	B & B	50mm Cal		Single Stem		Part shade	> 20m ht.	
AA	20	Acer rubrum 'Armstrong' / Armstrong Red Maple	B & B	50mm Cal		Single Stem		Part shade, Full sun	8 - 20m ht.	5 - 8m w.
AC SU	45	Acer saccharum / Sugar Maple	B & B	50mm Cal		Single Stem		Deep shade, Shade, Part shade, Full sun	12 - 20m ht.	12 - 20m w.
AC BL	12	Acer saccharum nigrum / Black Sugar Maple	B & B	50mm Cal		Single Stem		Deep shade, Shade, Part shade, Full sun	12 - 20m ht.	8 - 12m w.
CA CO	18	Carya cordiformis / Bitternut Hickory	B & B	50mm Cal		Single Stem		Part shade	12 - 20m ht.	8 - 12m w.
CA OV	20	Carya ovata / Shagbark Hickory	B & B	50mm Cal		Single Stem		Deep shade, Shade, Part shade, Full sun	12 - 20m ht.	8 - 12m w.
CO	16	Celtis occidentalis / Common Hackberry	B & B	50mm Cal		Single Stem		Shade, Part shade, Full sun	12 - 20m ht.	12 - 20m w.
FG	10	Fagus grandifolia / American Beech	B & B	50mm Cal		Single Stem		Part shade, Full sun	12 - 20m ht.	12 - 28m w.
GT	29	Gleditsia triacanthos inermis `Shademaster` / Shademaster Honey Locust	B & B	50mm Cal		Single Stem		Full sun	12 - 20m ht.	8 - 12m w.
GK	22	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal		Single Stem		Full sun	12 - 20m ht.	12 - 20m w.
JC	26	Juglans cinerea / Butternut	B & B	50mm Cal		Single Stem		Part shade		
JN	21	Juglans nigra / Black Walnut	B & B	50mm Cal		Single Stem		Part shade		
OV	7	Ostrya virginiana / American Hophornbeam	B & B	50mm Cal		Single Stem		Shade, Part shade, Full sun	8 - 12m ht.	8 - 12m w.
PO CA	25	Populus x canadensis / Canada Poplar 'Eugenei'	B & B	50mm Cal		Single Stem				
PR SE	5	Prunus serotina / Black Cherry	B & B	50mm Cal		Single Stem		Shade, Part shade, Full sun	8 - 20m ht.	5 - 1m w.
QA	22	Quercus alba / White Oak	B & B	50mm Cal		Single Stem		Full sun	12 - 20m ht.	12 - 28m w.
QM	22	Quercus macrocarpa / Burr Oak	B & B	50mm Cal		Single Stem		Part shade, Full sun	> 20m ht.	12 - 28m w.
QR	27	Quercus rubra / Red Oak	B & B	50mm Cal		Single Stem		Part shade, Full sun	12 - 20m ht.	12 - 20m w.
TA	15	Tilia americana / Basswood	B & B	50mm Cal		Single Stem		Part shade, Full sun	> 20m ht.	8 - 12m w.
UA	9	Ulmus americana / White Elm	B & B	50mm Cal		Single Stem		Part shade, Full sun		

MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SIZE	HABIT	REMARKS	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
AO	21	Aesculus glabra / Ohio Buckeye	B & B	50mm Cal		Single Stem		Part shade, Full sun	8 - 12m ht.	5 - 8m w.
BE NI	33	Betula nigra / River Birch Multi-Trunk	B & B	50mm Cal		Multi-Stem		Part shade		
BE PA	44	Betula papyrifera / Paper Birch	B & B	45mm Cal		Single Stem		Part shade	12 - 20m ht.	8 - 12m w.
PO TR	9	Populus tremuloides / Quaking Aspen	B & B	1550-2000mm HT		Multi-Stem		Part shade, Full sun	8 - 12m ht.	5 - 8m w.
PR VA	28	Prunus virgiana 'Schubert' / Schubert Chokecherry	B & B	50mm Cal		Multi-Stem		Part shade, Full sun	5 - 12m ht.	5 - 8m w.
SO AM	33	Sorbus americana / American Mountain Ash	B & B	50mm Cal		Multi-Stem		Part shade, Full sun	8 - 12m ht.	5 - 8m w.
SY RE	23	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B & B	37.5mm		Single Stem		Part shade, Full sun	5 - 8m ht.	5 - 8m w.

CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SIZE	HABIT	REMARKS	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
JW	9	Juniperus scopulorum 'Wichita Blue' / Wichita Blue Juniper	B & B		200cm			Full sun	3 - 5m ht.	1 - 2m w.
JU VA	93	Juniperus virginiana / Eastern Redcedar	B & B	2000 mm HT		Single Stem		Part shade, Full sun	8 - 20m ht.	3 - 8m w.
PG	37	Picea glauca / White Spruce	B & B	2000 mm HT		Single Stem		Full sun		5 - 8m w.
PI IF	40	Picea pungens 'Iseli Fastigiate' / Clumnar Blue Spruce	B & B	2000 mm HT		Single Stem		Part shade, Full sun	12 - 20m ht.	5 - 8m w.
PS	144	Pinus strobus / White Pine	B & B	2000 mm HT		Single Stem		Full sun	12 - 20m ht.	8 - 12m w.

SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SIZE	HABIT	REMARKS	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
AG	126	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B & B	2000-2500 mm HT		Multi-Stem		Part shade, Full sun	5 - 8m ht.	3 - 8m w.
CE	35	Cercis canadensis / Eastern Redbud Multi-trunk	B & B	3000-3600mm HT.		Multi-Stem		Part shade, Full sun	5 - 12m ht.	5 - 1m w.
MA RA	11	Malus x `Radiant` / Radiant Crabapple	B & B	37.5mm		Single Stem		Full sun	5 - 8m ht.	5 - 8m w.
MR	48	Malus x 'Rudolph' / Rudolph Flowering Crabapple	B & B	37.5mm		Single Stem		Full sun		
MS	30	Malus x 'Spring Snow' / Spring Snow Crabapple	B & B	37.5mm		Single Stem		Part shade, Full sun	5 - 8m ht.	5 - 8m w.

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	FIELD3	HABIT	REMARKS	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
AM	17	Aronia melanocarpa / Black Chokeberry	20L					Part shade, Full sun	1 - 2m ht.	1 - 2m w.
CE AM	27	Ceanothus americanus / New Jersey Tea	20L					Part shade	1 - 2m ht.	1 - 2m w.
CH PI	15	Chamaecyparis pisifera 'Filifera Aurea' / Golden Threadleaf Sawara Cypress	20L					Part shade, Full sun	2 - 8m ht.	1 - 3m w.
CO IS	21	Cornus sericea 'Isanti' / Isanti Red Twig Dogwood	20L					Shade, Part shade, Full sun	1 - 2m ht.	2 - 3m w.
CR AM	24	Corylus americana / American Hazelnut	20L					Part shade, Full sun	3 - 5m ht.	2 - 5m w.
HV	27	Hamamelis virginiana / Common Witch Hazel	20L					Part shade, Full sun	3 - 8m ht.	2 - 8m w.
HM	9	Heptacodium miconioides / Seven Son Flower	20L					Full sun	3 - 12m ht.	
LB	48	Lindera benzoin / Spicebush	20L					Part shade	2 - 5m ht.	2 - 5m w.
LC	27	Lonicera xylosteum 'Claveyi' / Clavey's Dwarf Honeysuckle	20L					Part shade	3 - 5m ht.	
PN	32	Physocarpus opulifolius / Ninebark	20L					Part shade, Full sun	1 - 3m ht.	1 - 2m w.
PI CE	8	Pinus cembra 'Glauca Nana' / Dwarf Swiss Stone Pine	20L					Full sun		
PI MU	16	Pinus mugo 'Pumilio' / Dwarf Mugo Pine	20L					Full sun	50cm - 2m ht.	1 - 2m w.
PR CC	5	Prunus virginiana / Chokecherry	20L					Part shade, Full sun	5 - 12m ht.	3 - 8m w.
RH TY	7	Rhus typhina / Staghorn Sumac	20L					Part shade	3 - 5m ht.	
RI AL	26	Ribes alpinum / Alpine Currant	20L					Deep shade, Shade, Part shade, Full sun	50cm - 1m ht.	1 - 2m w.
RI AU	14	Ribes aureum / Golden Currant	20L					Deep shade, Shade, Part shade, Full sun	1 - 3m ht.	1 - 2m w.
SM	24	Sambucus canadensis / American Elderberry	20L					Part shade, Full sun	1 - 5m ht.	1 - 5m w.
SA	29	Symphoricarpos albus / Common White Snowberry	20L					Part shade, Full sun	1 - 2m ht.	1 - 2m w.
SV	71	Syringa vulgaris / Common Lilac	20L					Part shade, Full sun	2 - 8m ht.	2 - 3m w.
VW	52	Viburnum cassinoides / Witherod Viburnum	20L					Part shade	2 - 5m ht.	2 - 5m w.
VL	9	Viburnum lentago / Nannyberry	20L					Shade, Part shade	3 - 12m ht.	2 - 3m w.
VA	15	Viburnum trilobum / American Cranberrybush	20L					Part shade, Full sun	2 - 5m ht.	3 - 5m w.

DIVERSITY CALCULATIONS - 1,129 TOTAL TREES

SPECIES PERCENTAGE - 348 SHADE TREES 30.8%

0.8%
1.8%
4.0%
1.1%
1.6%
1.8%
1.3%
0.8%
2.0%
1.9%
2.3%
1.9%
0.6%
0.4%
2.1%
2.0%
2.6%
1.3%
0.4%

SPECIES PERCENTAGE - 215 MED. TREES 19%

1.8%
4.2%
2.5%
0.8%
2.2%
2.5%
2.9%
2.1%

SPECIES PERCENTAGE - 318 CONIFERS TREES, 28.2%

0.8%
8.2%
3.3%
3.0%
13.0%

SPECIES PERCENTAGE - 248 SMALL TREES, 21.9%

10.8%
3.2%
0.9%
4.3%
2.7%

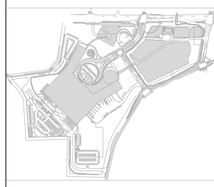
MIXED WOODLAND NATIVE SEED MIX:		
MANUFACTURER:	ONTARIO SEED COMPANY	
SEED MIX NAME	EARLY SUCCESSION DRY PRAIRIE MEADOW NATIVE SEED MIXTURE 8115	
	BOTANICAL	COMMON
FORBS	Aster saggitifolius	Arrow Leaved Aster
	Aster novae-angliae	New England Aster
	Monarda fistulosum	Wild Bergamot
	Penstemon digitalis	Beardtongue
	Rudbeckia hirta	Black Eyed Susan
GRASSES	Andropogon gerardii	Big Bluestem
	Elymus canadensis	Canada Wild Rye
	Elymus virginicus	Virginia Wild Rye
	Panicum virgatum	Switchgrass
NOTES:	Sow at a rate of 500g / 180 sq. meters. Fall sowing is recommended by manufacturer, typically between Oct. 15th - Nov. 15th	

RETENTION BASIN NATIVE SEED MIX:		
MANUFACTURER:	ONTARIO SEED COMPANY	
SEED MIX NAME	WILDLIFE RETENTION BASIN NATIVE SEED MIXTURE 8270	
	BOTANICAL	COMMON
FORBS	Acorus americanus	Sweet Flag
	Bidens cernua	Nodding Bur Marigold
	Verbena hastata	Blue Vervain
	Lobelia siphilatica	Great Blue Lobelia
	Monarda fistulosum	Wild Bergamot
GRASSES	Carex scoparia	Blunt Broom Sedge
	Carex vulpinoidea	Fox Sedge
	Elymus virginicus	Virginia Wild Rye
	Glyceria grandis	Tall Manna Grass
	Juncus effusus	Soft Rush
	Juncus tenuis	Path Rush
	Leersia oryzoides	Rice Cutgrass
	Scirpus atrovirens	Green Bulrush
	Scirpus cyperinus	Woolgrass
	Sparangium eurycarpum	Giant Bur Reed
NOTES:	Sow at a rate of 500g / 180 sq. meters. Fall sowing is recommended by manufacturer, typically between Oct. 15th - Nov. 15th	

ALVAR NATIVE SEED MIX:				
MANUFACTURER:	ONTARIO SEED COMPANY			
SEED MIX NAME	CUSTOM			
	BOTANICAL	COMMON	SEEDS/LB	% OF MIX
FORBS				
	Anemone canadensis	Canada Anemone	504,000	1
	Antennaria plantaginifolia	Prairie Pussytoes		2
	Aquilegia canadensis	Eastern Columbine	504,000	5
	Aster novae-anglaie	New England Aster	1,100,000	1
	Aurinia saxatilis	Basket-of-gold		1
	Dalea purpurea	Purple Prairie Clover		1
	Echinacea purpurea	Purple Coneflower	120,000	4
	Fragaris virginiana	Wild Strawberry		1
	Liatris spicata	Dense Blazing Star	100,000	3
	Monarda fistulosa	Wild Bergamot	1,272,500	1
	Oenothera biennis	Common Primrose	1,376,000	1
	Penstemon digitalis	Beard Tongue	400,000	2
	Ratibida columnaris	Prairie Coneflower	832,000	3
	Rudbeckia hirta	Black Eyed Susan	1,576,000	2
	Solidago canadensis	Canada Goldenrod	4,600,000	1
	Solidago nemoralis	Grey Stemmed Goldenrod	1,008,000	1
GRASSES				
	Bouteloua gracillus	Blue Grama Grass	710,000	10
	Buchloe dactyloides	Buffalo Grass	335,000	10
	Carex vulpinoidea	Fox Sedge	1,297,000	5
	Schizachyrium scoparium	Little Blue Stem	200,000	15
	Sorghastrum nutans	Indian Grass	175,000	15
	Sporobolis cryptandrus	Sand Dropseed	5,600,000	15

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
	2022-09-30	ISSUED FOR PRE-CONSULTATION
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339862
Original Issue	04/21/22

Sheet Name

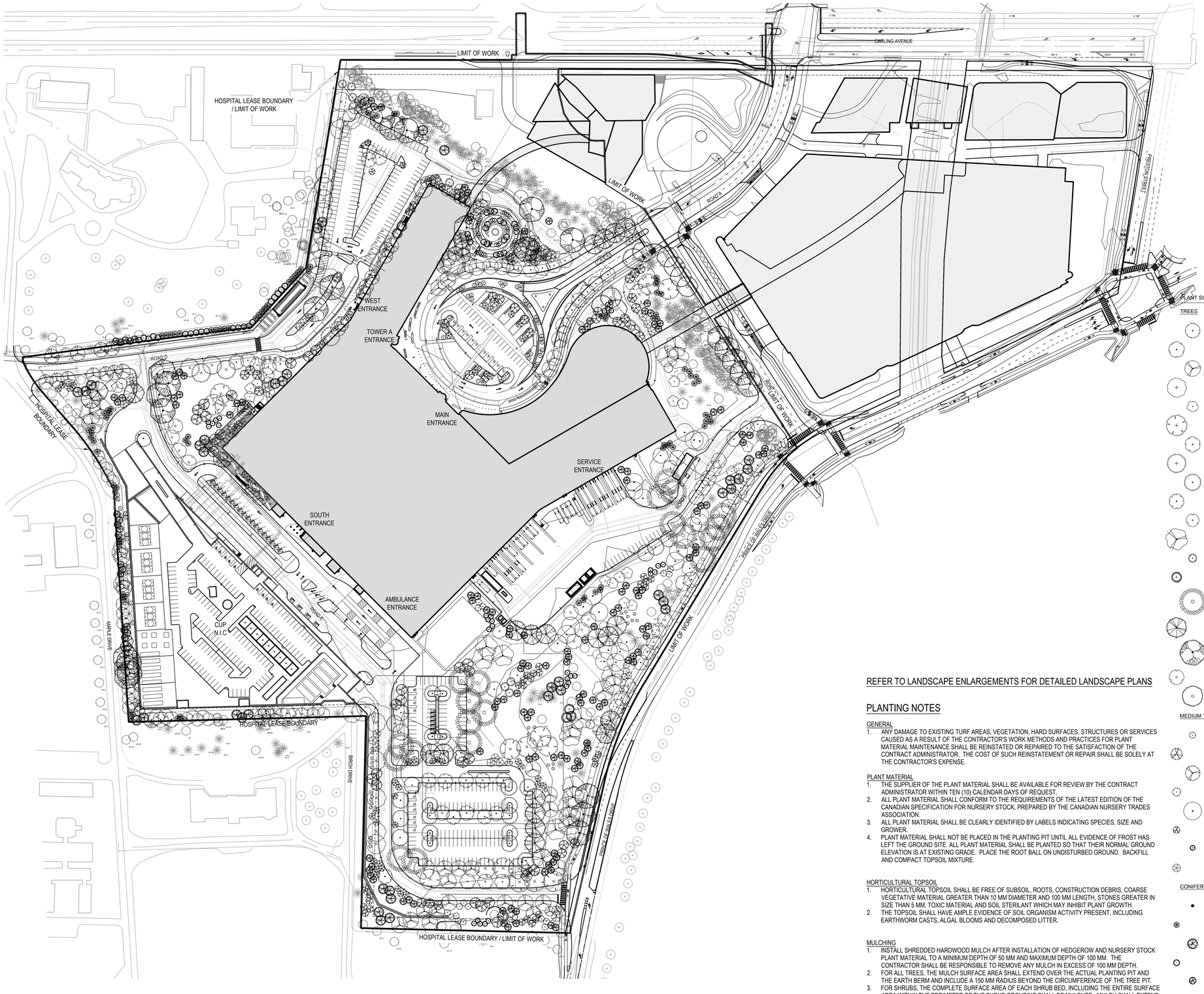
SCHEMATIC PLANT LIST

Sheet Number

L-2.2.2.701

Project Status

STAGE 3



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME
	AC NI	10	Acer nigrum / Black Maple
	AA	20	Acer rubrum 'Armstrong' / Armstrong Red Maple
	AC SU	45	Acer saccharum / Sugar Maple
	AC BL	12	Acer saccharum nigrum / Black Sugar Maple
	CA CO	18	Carya cordiformis / Bitternut Hickory
	CA OV	20	Carya ovata / Shagbark Hickory
	CO	15	Celtis occidentalis / Common Hackberry
	FG	10	Fagus grandifolia / American Beech
	GT	23	Gleditsia triacanthos inermis `Shademaster` / Shademaster Honey Locust
	GK	21	Gymnocladus dioica / Kentucky Coffeetree
	JC	26	Juglans cinerea / Butternut
	JN	21	Juglans nigra / Black Walnut
	OV	7	Ostrya virginiana / American Hophornbeam
	PR SE	5	Prunus serotina / Black Cherry
	QA	24	Quercus alba / White Oak
	QM	22	Quercus macrocarpa / Burr Oak
	QR	29	Quercus rubra / Red Oak
	TA	15	Tilia americana / Basswood
	UA	5	Ulmus americana / White Elm
MEDIUM TREES	CODE	QTY	BOTANICAL / COMMON NAME
	AO	21	Aesculus glabra / Ohio Buckeye
	BE NI	47	Betula nigra / River Birch Multi-Trunk
	BE PA	28	Betula papyrifera / Paper Birch
	PO TR	9	Populus tremuloides / Quaking Aspen
	PO CA	25	Populus x canadensis / Canada Poplar 'Eugenei'
	PR VA	28	Prunus virgiana 'Schubert' / Schubert Chokecherry
	SO AM	33	Sorbus americana / American Mountain Ash
	SY RE	24	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac
CONIFERS	CODE	QTY	BOTANICAL / COMMON NAME
	JW	9	Juniperus scopulorum 'Wichita Blue' / Wichita Blue Juniper
	JU VA	93	Juniperus virginiana / Eastern Redcedar
	PG	37	Picea glauca / White Spruce
	PI IF	34	Picea pungens 'Iseli Fastigiate' / Clumnar Blue Spruce
	PS	145	Pinus strobus / White Pine
SMALL TREES	CODE	QTY	BOTANICAL / COMMON NAME
	AG	122	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry
	CE	37	Cercis canadensis / Eastern Redbud Multi-trunk
	MA RA	11	Malus x 'Radiant' / Radiant Crabapple
	MR	48	Malus x 'Rudolph' / Rudolph Flowering Crabapple
	MS	30	Malus x 'Spring Snow' / Spring Snow Crabapple

REFER TO LANDSCAPE ENLARGEMENTS FOR DETAILED LANDSCAPE PLANS

PLANTING NOTES

GENERAL
1. ANY DAMAGE TO EXISTING TURF AREAS, VEGETATION, HARD SURFACES, STRUCTURES OR SERVICES CAUSED AS A RESULT OF THE CONTRACTOR'S WORK METHODS AND PRACTICES FOR PLANT MATERIAL MAINTENANCE SHALL BE REINSTATED OR REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. THE COST OF SUCH REINSTATEMENT OR REPAIR SHALL BE SOLELY AT THE CONTRACTOR'S EXPENSE.

PLANT MATERIAL
1. THE SUPPLIER OF THE PLANT MATERIAL SHALL BE AVAILABLE FOR REVIEW BY THE CONTRACT ADMINISTRATOR WITHIN TEN (10) CALENDAR DAYS OF REQUEST.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN SPECIFICATION FOR NURSERY STOCK, PREPARED BY THE CANADIAN NURSERY TRADES ASSOCIATION.
3. ALL PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED BY LABELS INDICATING SPECIES, SIZE AND GROWER.
4. PLANT MATERIAL SHALL NOT BE PLACED IN THE PLANTING PIT UNTIL ALL EVIDENCE OF FROST HAS LEFT THE GROUND SITE. ALL PLANT MATERIAL SHALL BE PLANTED SO THAT THEIR NORMAL GROUND ELEVATION IS AT EXISTING GRADE. PLACE THE ROOT BALL ON UNDISTURBED GROUND. BACKFILL AND COMPACT TOPSOIL MIXTURE.

HORTICULTURAL TOPSOIL
1. HORTICULTURAL TOPSOIL SHALL BE FREE OF SUBSOIL, ROOTS, CONSTRUCTION DEBRIS, COARSE VEGETATIVE MATERIAL GREATER THAN 10 MM DIAMETER AND 100 MM LENGTH, STONES GREATER IN SIZE THAN 5 MM, TOXIC MATERIAL AND SOIL STERILANT WHICH MAY INHIBIT PLANT GROWTH.
2. THE TOPSOIL SHALL HAVE AMPLE EVIDENCE OF SOIL ORGANISM ACTIVITY PRESENT, INCLUDING EARTHWORM CASTS, ALGAL BLOOMS AND DECOMPOSED LITTER.

MULCHING
1. INSTALL SHREDDED HARDWOOD MULCH AFTER INSTALLATION OF HEDGEROW AND NURSERY STOCK PLANT MATERIAL TO A MINIMUM DEPTH OF 50 MM AND MAXIMUM DEPTH OF 100 MM. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY MULCH IN EXCESS OF 100 MM DEPTH.
2. FOR ALL TREES, THE MULCH SURFACE AREA SHALL EXTEND OVER THE ACTUAL PLANTING PIT AND THE EARTH BERM AND INCLUDE A 150 MM RADIUS BEYOND THE CIRCUMFERENCE OF THE TREE PIT. FOR SHRUBS, THE COMPLETE SURFACE AREA OF EACH SHRUB BED, INCLUDING THE ENTIRE SURFACE AREA WITHIN THE PERIMETER OF THE SHRUB GROUPING SHALL BE MULCHED. MULCH SHALL EXTEND TO THE LIMIT OF THE BED PREPARATION.

INITIAL WATERING
1. INITIAL WATERING OF ALL PLANT MATERIAL SHALL BE COMPLETED IMMEDIATELY AFTER MULCHING. SUFFICIENT WATER SHALL BE APPLIED TO EACH PLANT TO THOROUGHLY SOAK THE ROOT ZONE.

REFERENCES
PUBLICATIONS:
AGRICULTURE CANADA PUBLICATION 1507-1977; THE PRUNING MANUAL.
CANADIAN NURSERY TRADES ASSOCIATION;
CANADIAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.
ONTARIO PROVINCIAL STANDARD SPECIFICATION, CONSTRUCTION;
OPSS 801, THE PROTECTION OF TREES.

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

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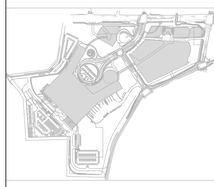

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

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Wayfinding	
Sheet Reviewer	Author

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Project Number	10333982
Original Issue	04/21/22

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
JEFFREY A. FAHS
OALA
7/25/2023

Sh

OVERALL PLANTING PLAN

Sheet Number

L-2.2.2.801

Project Status
STAGE 3

SEE SHEET L-2.2.2.703 FOR PLANT ID ABBREVIATIONS

UNDERSTORY LEGEND

- MIXED WOODLAND
- ALVAR GRASSLAND
- SUNKEN GARDEN
- TURF GRASS
- SHRUB BED W/ 3 IN. THICK MULCH LAYER
- RETENTION BASIN NATIVE SEED MIX

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

HDR

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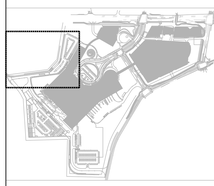

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

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Project Number	103339882
Original Issue	04/21/22

Sheet Name

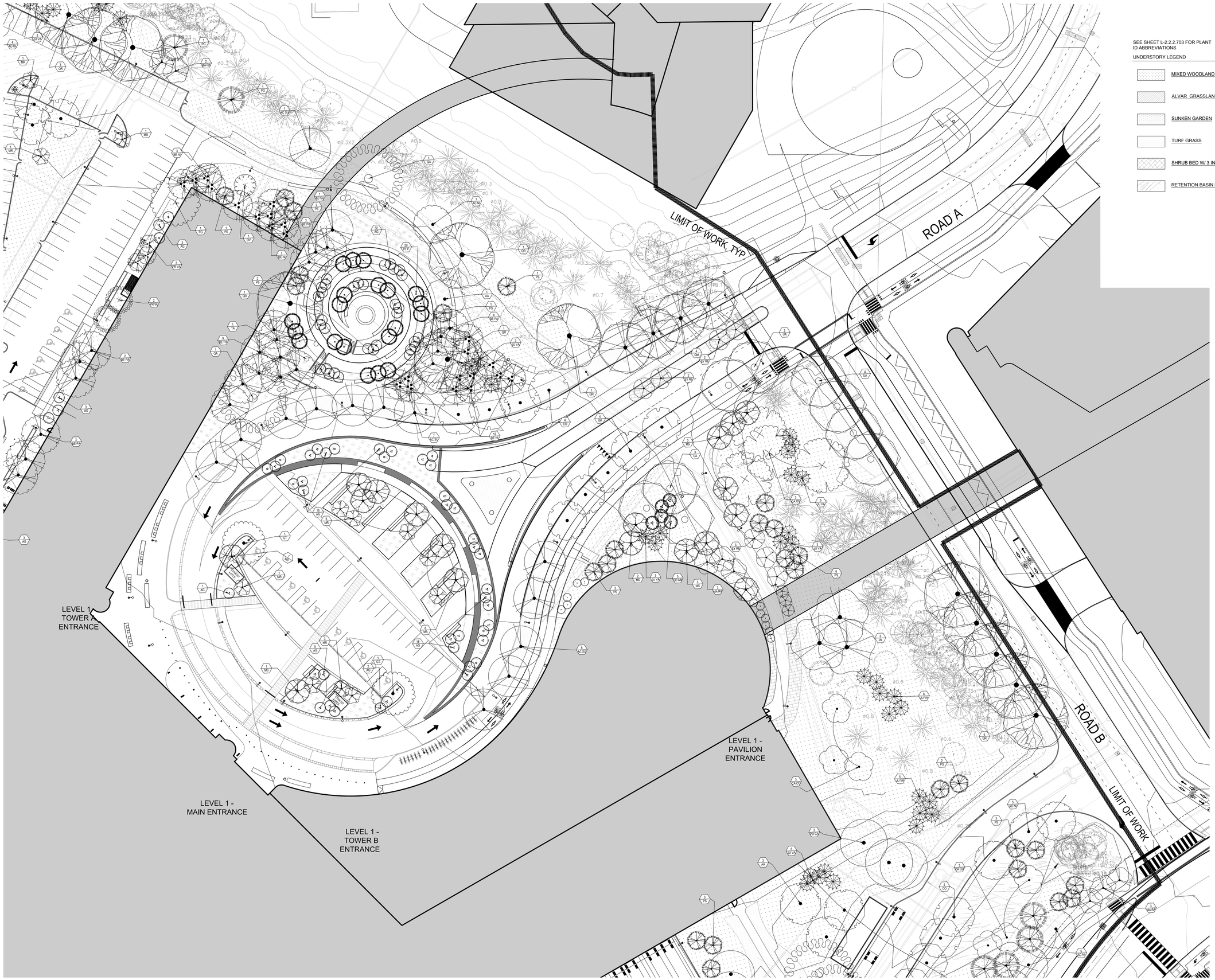
PLANTING PLAN ENLARGEMENT

Sheet Number

L-2.2.2.802

Project Status

STAGE 3



SEE SHEET L-2.2.2.703 FOR PLANT ID ABBREVIATIONS

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CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

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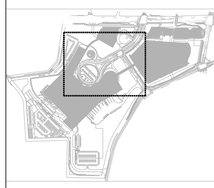
Scale 1: 250

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

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Project Number 103339982
Original Issue 04/21/22

Sheet Name

PLANTING PLAN ENLARGEMENT

Sheet Number

L-2.2.2.803

Project Status

STAGE 3

SEE SHEET L-2.2.2.703 FOR PLANT ID ABBREVIATIONS

UNDERSTORY LEGEND

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CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

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Scale 1: 250

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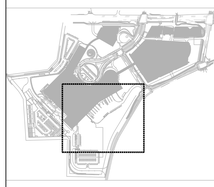

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

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Project Number	103339982
Original Issue	04/21/22

Sheet Name

PLANTING PLAN
ENLARGEMENT

Sheet Number

L-2.2.2.804

Project Status

STAGE 3

SEE SHEET L-2.2.2.703 FOR PLANT ID ABBREVIATIONS

UNDERSTORY LEGEND

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CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

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Scale 1: 250

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
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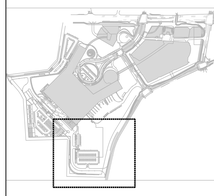

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA
FOR THE OTTAWA HOSPITAL

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Original Issue 04/21/22

PRELIMINARY
NOT FOR CONSTRUCTION

Sheet Name

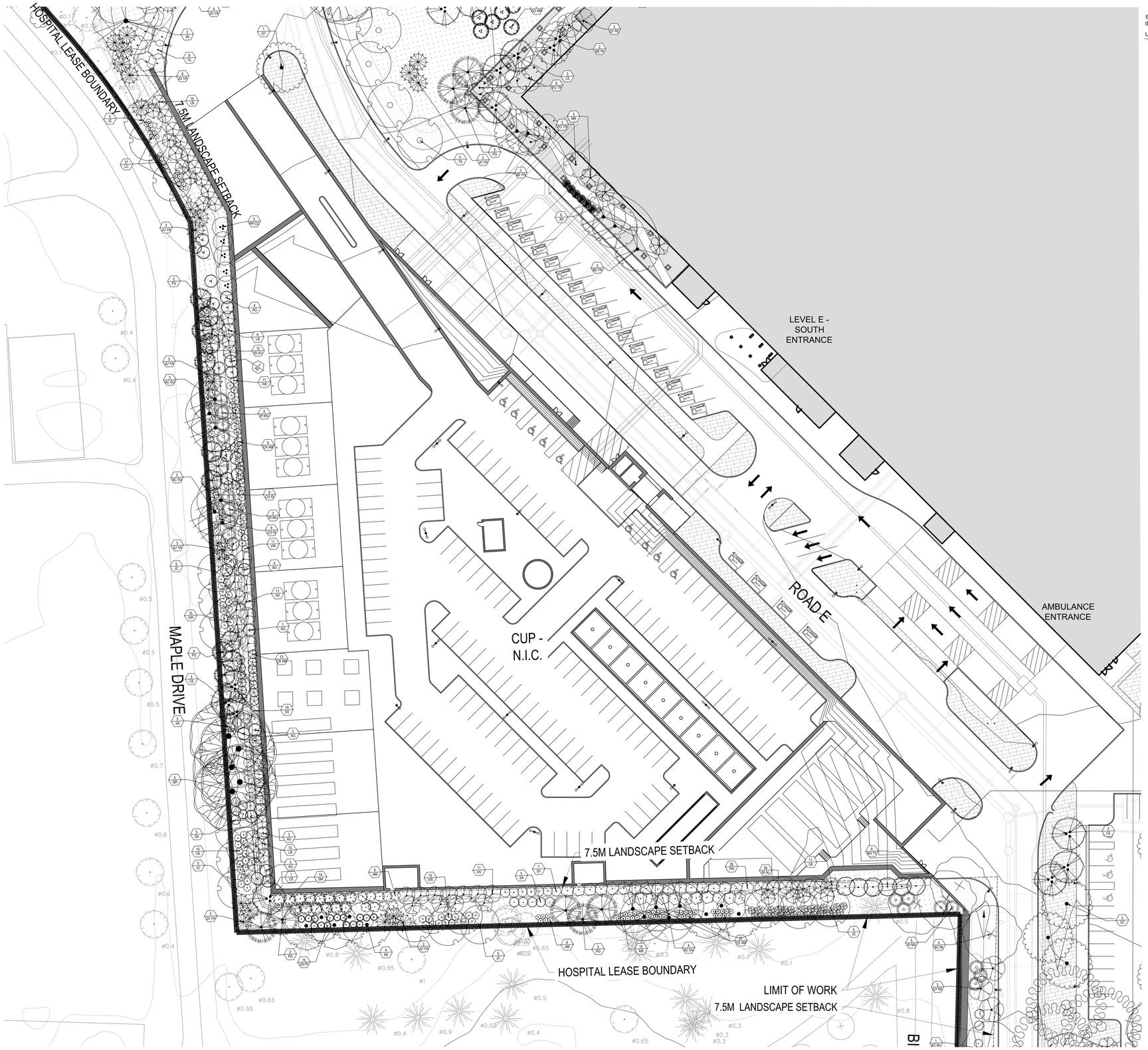
PLANTING PLAN ENLARGEMENT

Sheet Number

L-2.2.2.805

Project Status

STAGE 3



SEE SHEET L-2.2.2.703 FOR PLANT ID ABBREVIATIONS

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CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH / TRUE NORTH

0 3m 6.25m 12.5m 25m
Scale 1: 250

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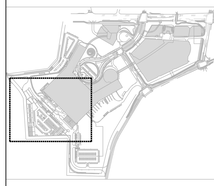

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Project Number	10333982
Original Issue	04/21/22

Sheet Name

PLANTING PLAN ENLARGEMENT

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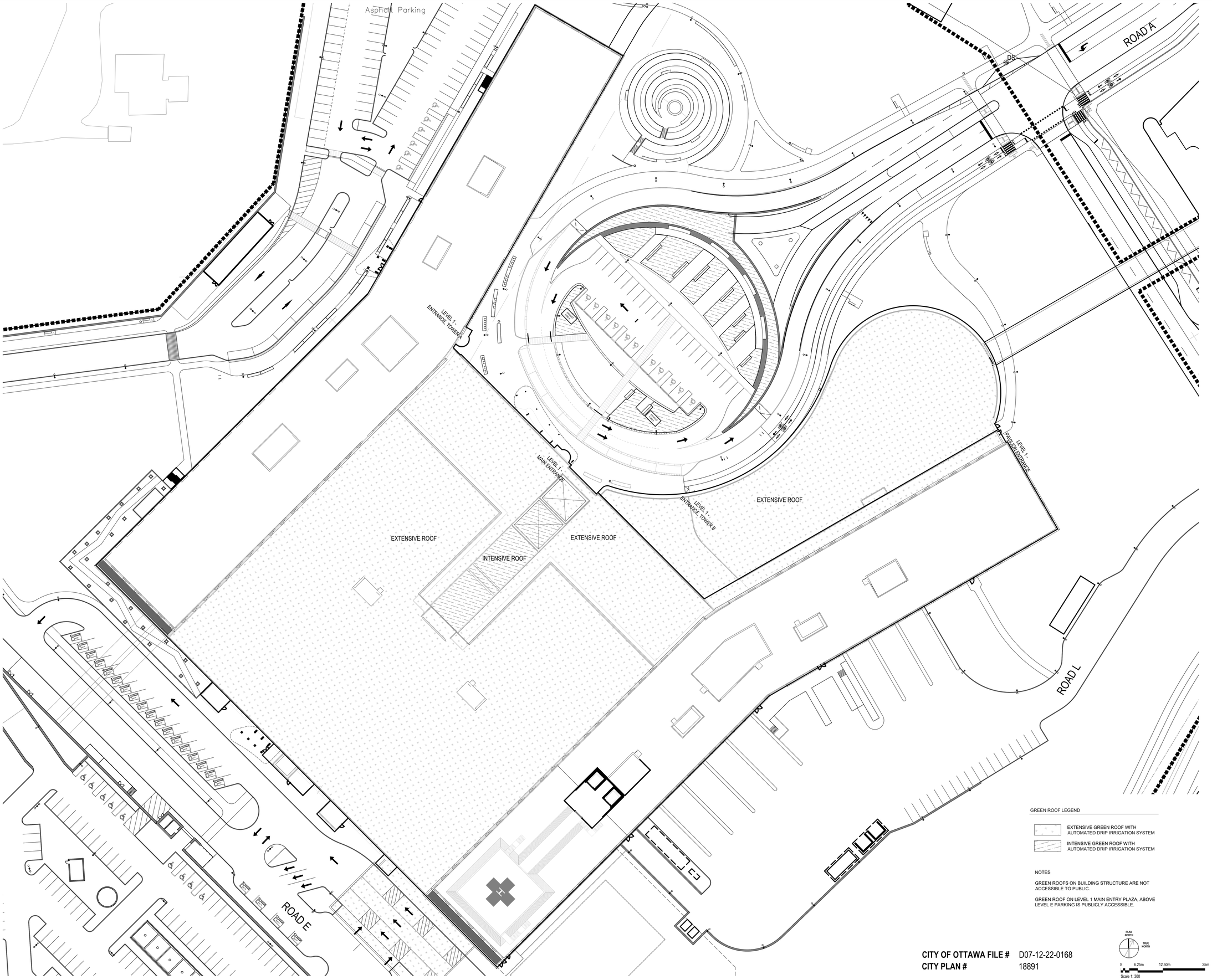
L-2.2.2.806

Project Status

STAGE 3



GREEN ROOF LEGEND

EXTENSIVE GREEN ROOF WITH AUTOMATED DRIP IRRIGATION SYSTEM

INTENSIVE GREEN ROOF WITH AUTOMATED DRIP IRRIGATION SYSTEM

NOTES

GREEN ROOFS ON BUILDING STRUCTURE ARE NOT ACCESSIBLE TO PUBLIC.

GREEN ROOF ON LEVEL 1 MAIN ENTRY PLAZA, ABOVE LEVEL E PARKING IS PUBLICLY ACCESSIBLE.

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 6.25m 12.50m 25m
Scale 1: 300

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6

THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

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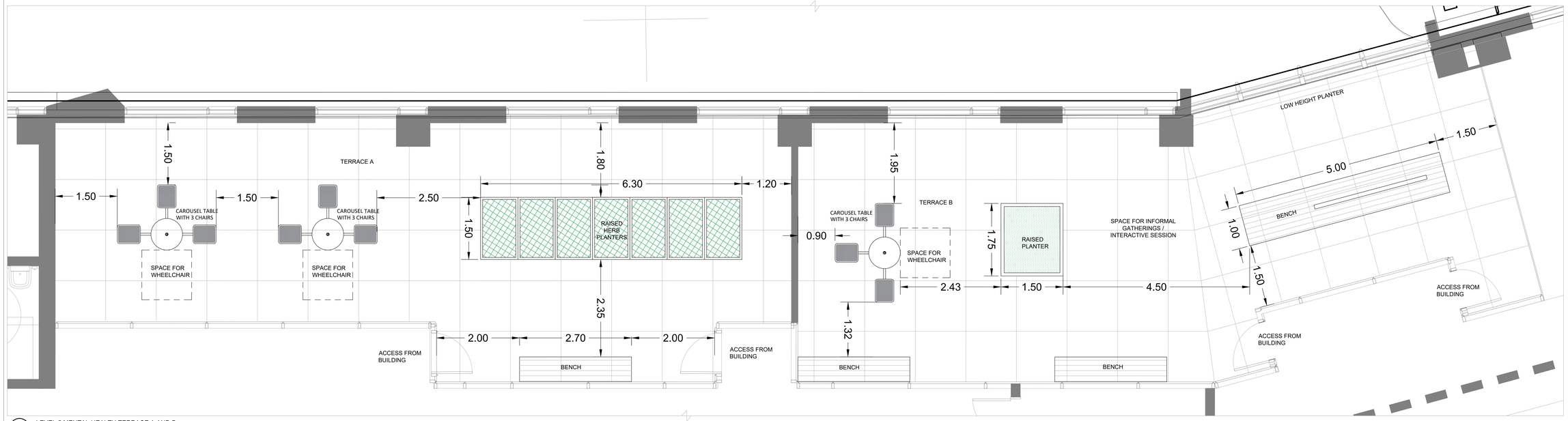
Project Number 103339882
Original Issue 04/21/22

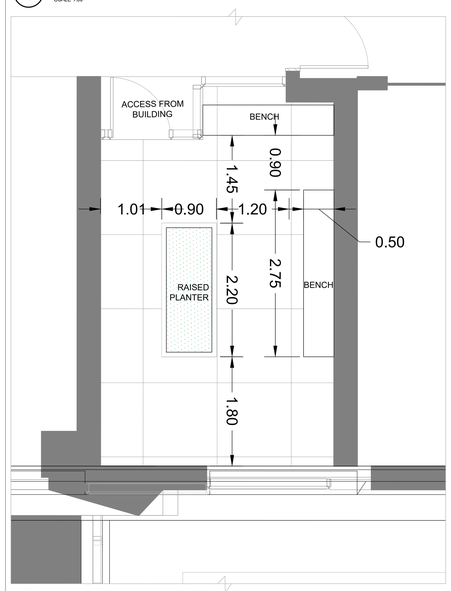
Sheet Name
GREEN ROOF OVERALL PLANTING PLAN

Sheet Number
L-2.2.2.851

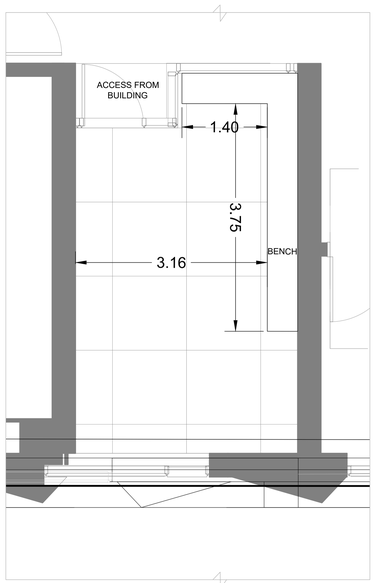
Project Status
STAGE 3



1 LEVEL 5 MENTAL HEALTH TERRACE A AND B
SCALE 1:30



2 LEVEL 5 PSYCHIATRIC INTENSIVE CARE UNIT TERRACE 'C'
SCALE 1:30



3 LEVEL 5 MENTAL HEALTH TERRACE 'D'
SCALE 1:30

PRECEDENT : VALLEY VIEW MEDICAL CENTER

4 LOCATION REFERENCE PLAN
N.T.S

CAROUSEL TABLE WITH CHAIRS

PLANTERS WITH WHEELCHAIR ACCESS

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 1.875m 3.75m
Scale 1: 30

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
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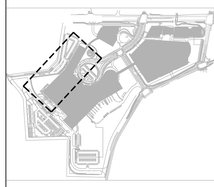

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
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Original Issue	04/21/22

Sheet Name

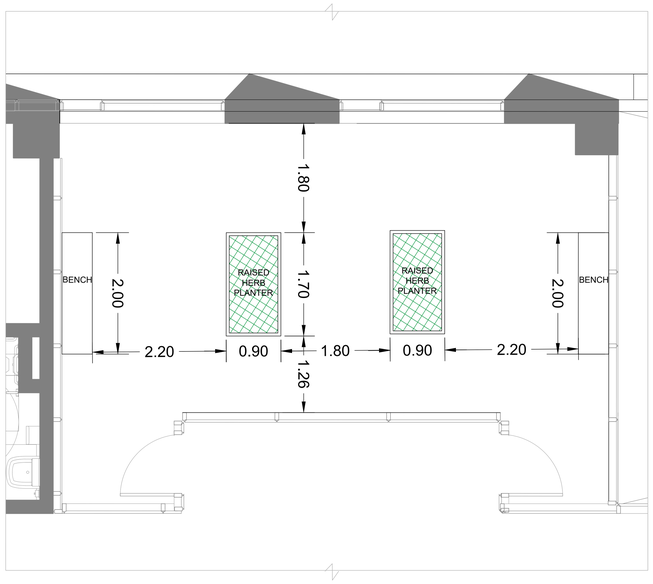
GREEN ROOF
LEVEL 5

Sheet Number

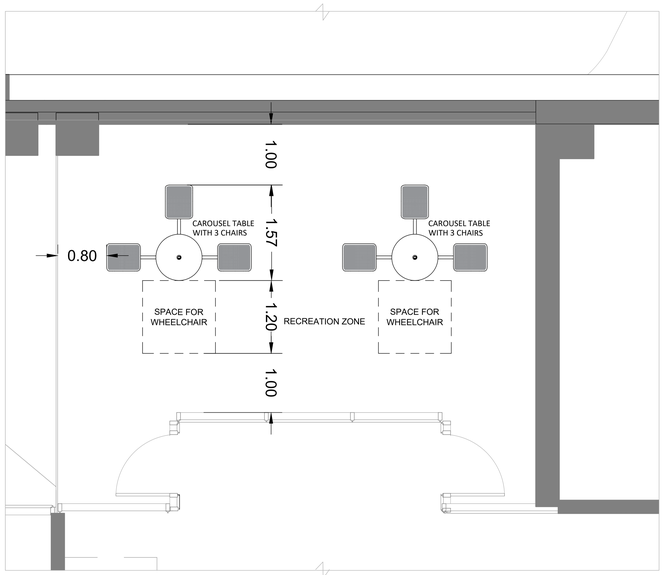
L-2.2.2.852

Project Status

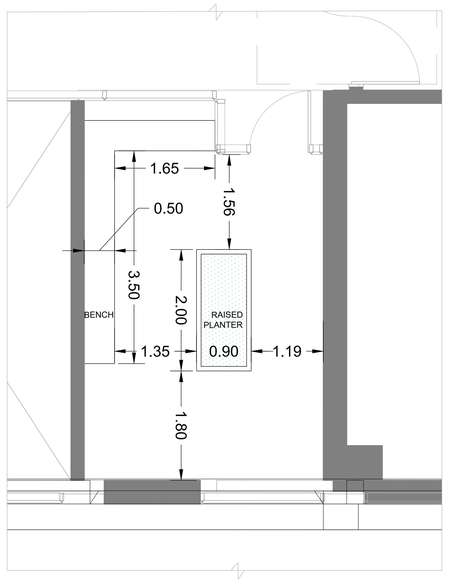
STAGE 3



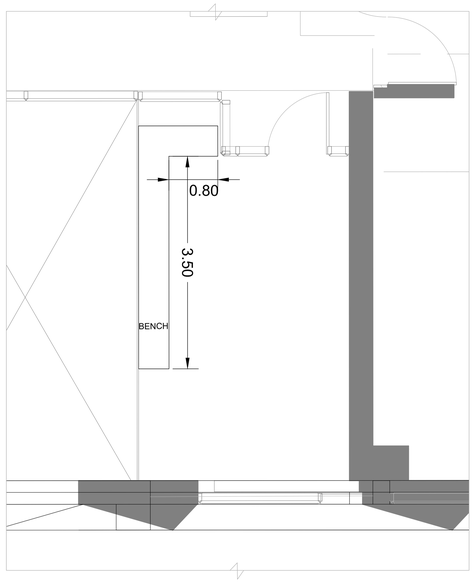
1 LEVEL 6 MENTAL HEALTH TERRACE 'A'
SCALE 1:30



2 LEVEL 6 MENTAL HEALTH TERRACE 'B'
SCALE 1:30



3 LEVEL 6 PSYCHIATRIC MENTAL HEALTH TERRACE 'C'
SCALE 1:30



4 LEVEL 6 PSYCHIATRIC MENTAL HEALTH TERRACE 'D'
SCALE 1:30

CAROUSEL TABLE WITH CHAIRS

5 LOCATION REFERENCE PLAN
N.T.S.

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 1.875m 3.75m
Scale 1: 30

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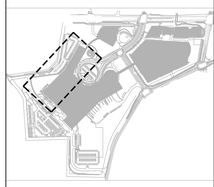

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
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Sheet Name

GREEN ROOF LEVEL 6

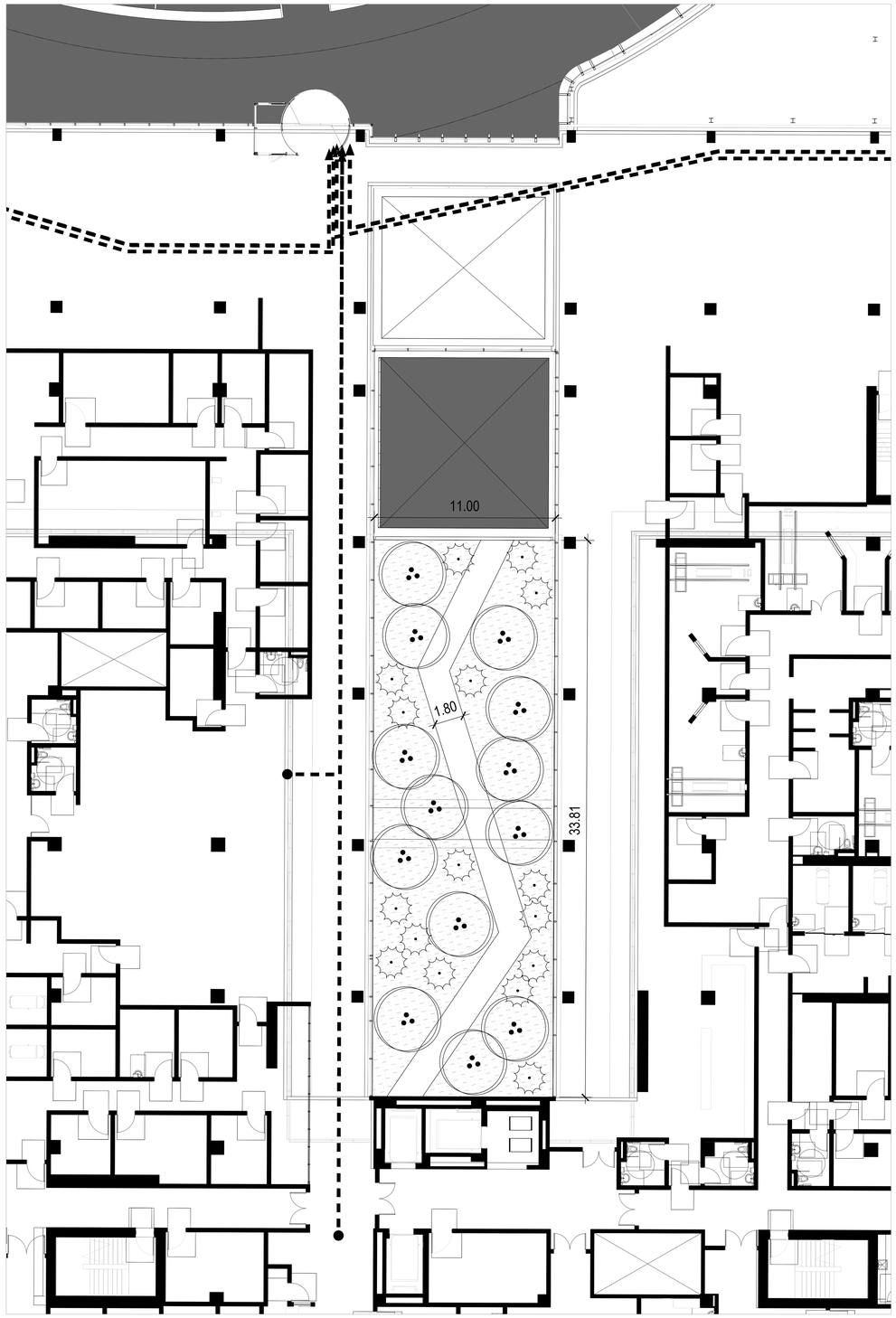
Sheet Number

L-2.2.2.853

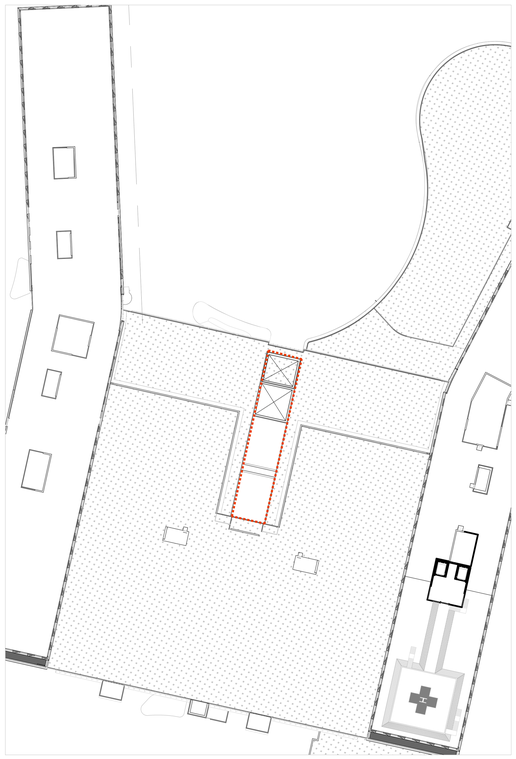
Project Status

STAGE 3

LIGHT WELL GREEN ROOF LANDSCAPING



1 LIGHT WELL GREEN ROOF
SCALE 1:100



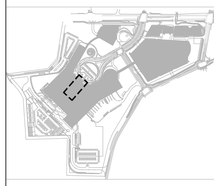
2 LOCATION REFERENCE PLAN
N.T.S

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

PLAN NORTH
TRUE NORTH

0 1.875m 3.75m
Scale 1: 38

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NEW CAMPUS DEVELOPMENT FOR THE OTTAWA HOSPITAL | NOUVEAU CAMPUS DE L'HÔPITAL D'OTTAWA

PRELIMINARY
NOT FOR CONSTRUCTION

Project Manager	MR
Project Designer	JEG
Project Architect	JEG
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Colliers
Wayfinding	

Sheet Reviewer	Author

MARK	DATE	DESCRIPTION
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	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-14	ISSUED FOR SPC & FLUDA APPROVAL
	2023-07-25	RE-ISSUED FOR SPC & FLUDA APPROVAL

Project Number	103339982
Original Issue	04/21/22

Sheet Name

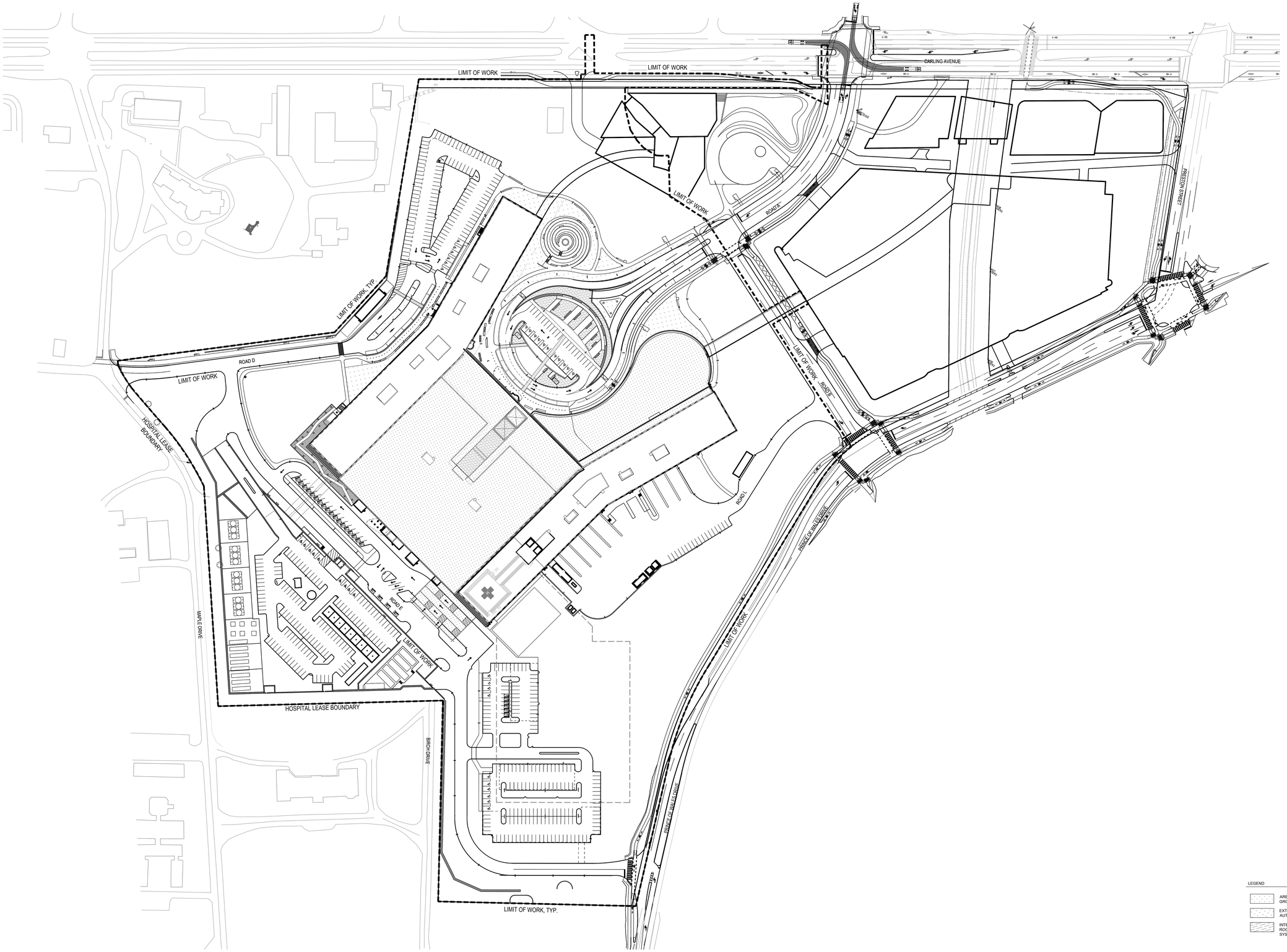
LIGHTWELL INTENSIVE
GREEN ROOF PLAN

Sheet Number

L-2.2.2.854

Project Status

STAGE 3



HDR Architecture Associates Inc.
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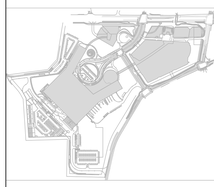

THE OTTAWA HOSPITAL
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Project Number	103335982
Original Issue	04/21/22

LEGEND

- AREA TO BE IRRIGATED - GROUND PLANE
- EXTENSIVE GREEN ROOF WITH AUTOMATED DRIP IRRIGATION SYSTEM
- INTENSIVE AND SEMI-INTENSIVE GREEN ROOF WITH AUTOMATED DRIP IRRIGATION SYSTEM

PLAN NORTH
TRUE NORTH

0 18.75m 37.5m 75m
Scale 1: 750

CITY OF OTTAWA FILE # D07-12-22-0168
CITY PLAN # 18891

Sheet Name

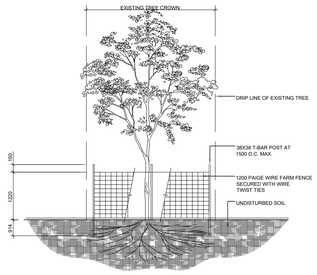
OVERALL IRRIGATION PLAN

Sheet Number

L-2.2.2.901

Project Status

STAGE 3

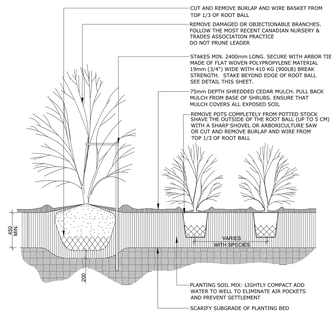


NOTES:

1. THE AREA WITHIN THE DRIPLINE OF ALL EXISTING TREES SHALL BE PROPERLY PROTECTED WITH TEMPORARY FENCING AS PER THE APPROVED LANDSCAPE PLAN.
2. THE SURVEY SHALL SHOW EXISTING ELEVATION AT BASE OF ALL TREES TO BE PRESERVED AS SHOWN BY "+".
3. THE AREA WITHIN THE PROTECTED FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF BUILDING MATERIALS OR EQUIPMENT. REMOVE ALL DEBRIS.
4. PRUNE BRANCHES TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES. DO NOT PRUNE LEADERS.
5. TREE PROTECTION SHALL REMAIN UNTIL SUBSTANTIAL PERFORMANCE OF THE PROJECT.
6. IF CUTTING OF ROOTS OR CHANGING OF GRADES AROUND EXISTING TREES IS CALLED FOR, FOLLOW APPROPRIATE DETAILS AS DIRECTED BY LANDSCAPE ARCHITECT.
7. IF TREES ARE BEING AFFECTED BY CONSTRUCTION, A WATER AND FERTILIZING PROGRAM WILL BE REQUIRED TO THE SATISFACTION OF THE CITY.

9 TREE PROTECTION FENCE

NTS

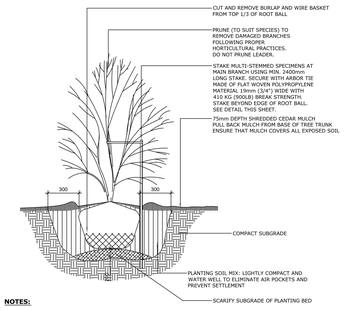


NOTES:

1. PLANTING SOIL MIXTURE AS PER SPECIFICATION.
2. SHRUBS SPECIFIED BARE ROOTS (B.R.) TO BE PLANTED SO THAT ROOTS ARE FULLY EXTENDED IN PLANTING HOLE WITH SOIL MIX BACKFILLED CAREFULLY TO PREVENT ROOT DAMAGE
3. PROVIDE 100 HIGH EARTH SAUCER AROUND SHRUB BED
4. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD

6 CONTINUOUS SHRUB BED PLANTING

NTS

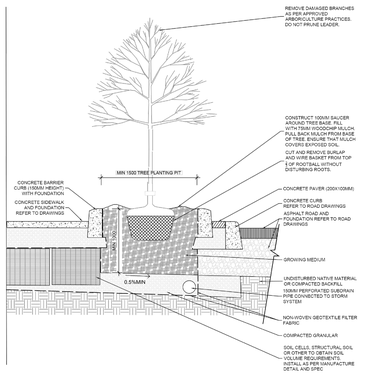


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
2. PLANTING SOIL MIXTURE AS PER SPECIFICATION
3. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD

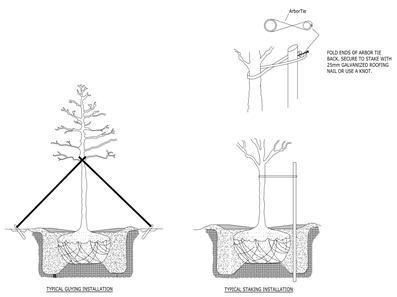
3 MULTI-STEM TREE PLANTING

NTS



11 HARD SURFACE TREE PLANTING OPEN PLANTER

NTS



NOTES

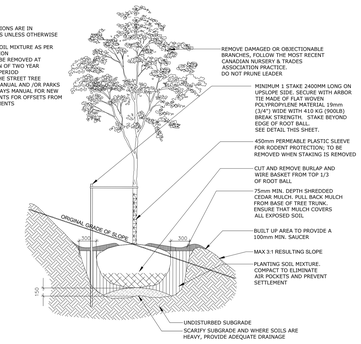
1. STAKING AND GUYING MATERIAL IS TO BE FLAT WOVEN POLYPROPYLENE MATERIAL. 19.05MM (3/4") WIDE 410 KG (900 LB.) BREAK STRENGTH.
2. ARBOR TIES SHALL BE FASTENED TO STAKES IN A MANNER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE.
3. STABILIZATION SHOULD ONLY BE UNDERTAKEN WHEN NECESSARY, NOT AS A DEFAULT PRACTICE. WHEN WARRANTED AND IMMEDIATELY FOLLOWING PLANTING (E.G. AT WINDY SITES, FOR VERY TALL TREES, I.E. DECIDUOUS OVER 100 MM % CALIPER AND CONIFEROUS TREES OVER 300 CM TALL); IN AREAS WHERE THEY MAY GET PUSHED OVER), TREES SHOULD BE STABILIZED USING NON-DAMAGING METHODS, ALLOWING FREE MOVEMENT FOR TRUNK TAPER AND CROWN DEVELOPMENT. THE THREE MOST COMMON TECHNIQUES FOR STABILIZING TREES ARE STAKING, GUYING AND ROOT BALL ANCHORING.

8 TREE STAKING AND GUYING

NTS

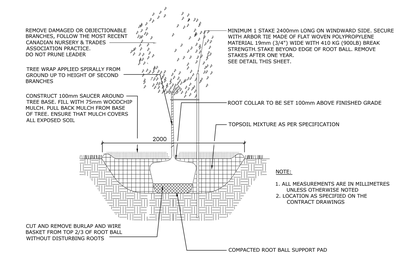
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
2. PLANTING SOIL MIXTURE AS PER SPECIFICATION
3. STAKES TO BE REMOVED AT COMPLETION OF TWO YEAR WARRANTY PERIOD
4. REFER TO THE STREET TREE PLANTING MANUAL AND /OR PARKS AND PATHWAYS MANUAL FOR NEW DEVELOPMENTS FOR OFFSETS FROM OTHER ELEMENTS



5 DECIDUOUS TREE ON SLOPE PLANTING

NTS

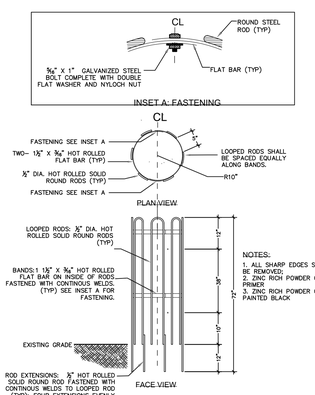


NOTE:

1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
2. LOCATION AS SPECIFIED ON THE CONTRACT DRAWINGS

2 DECIDUOUS TREE PLANTING

NTS

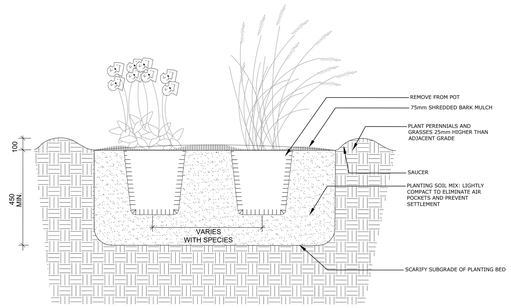


NOTES:

1. ALL SHARP EDGES SHALL BE REMOVED;
2. ZINC RICH POWDER COATED PRIMER
3. ZINC RICH POWDER COATED PAINTED BLACK

10 TREE GUARD

NTS

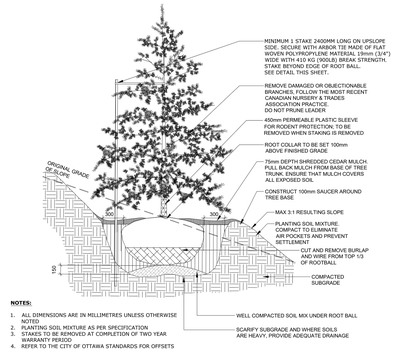


NOTES:

1. *ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.*
2. *PLANTING SOIL MIXTURE AS PER SPECIFICATION.*
3. *PROVIDE 100MM HIGH EARTH SAUCER AROUND PERENNIAL/GRASS BED.*

7 PERENNIAL AND ORNAMENTAL GRASS PLANTING

NTS



NOTES:

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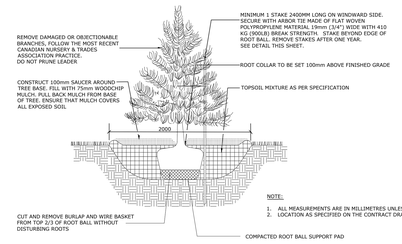
4. REFER TO THE CITY OF OTTAWA STANDARDS FOR OFFSETS

4 CONIFEROUS TREE ON SLOPE PLANTING

NTS



NOTE:

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2. LOCATION AS SPECIFIED ON THE CONTRACT DRAWINGS

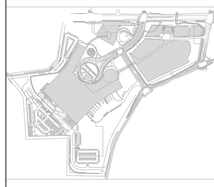
1 CONIFEROUS TREE PLANTING

NTS

CITY OF OTTAWA FILE # D07-12-22-0168

CITY PLAN # 18891

HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 6X6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

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Project Number	10333982
Original Issue	04/21/22

Sheet Name

PLANTING DETAILS

Sheet Number

L-2.2.2.951

Project Status

STAGE 3