







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

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



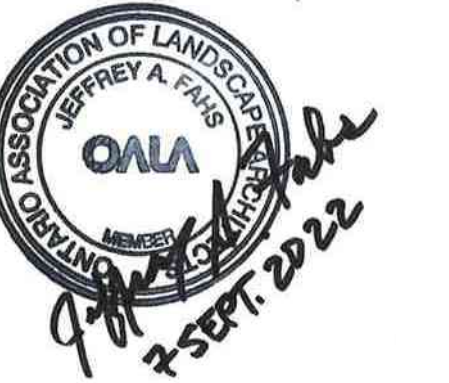
Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fahn  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR NCC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TON DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**ORIENTATION PLAN**

Sheet Number  
**L-001**

Project Status  
Progress Submission

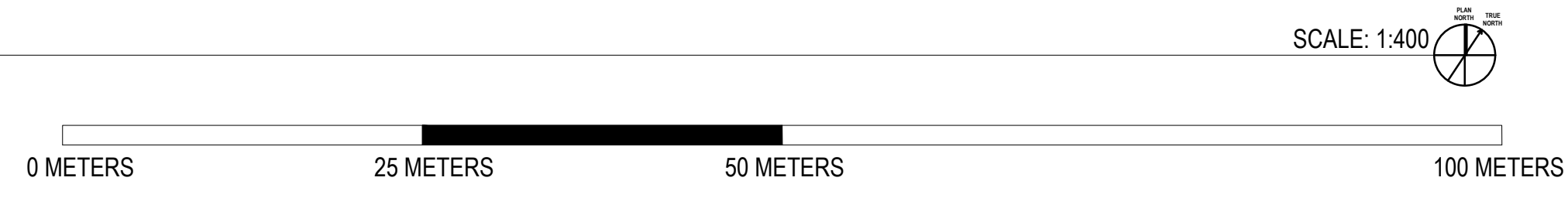


**APPROVED**  
By Lily Xu at 4:53 pm, Sep 12, 2022

*Lily Xu*

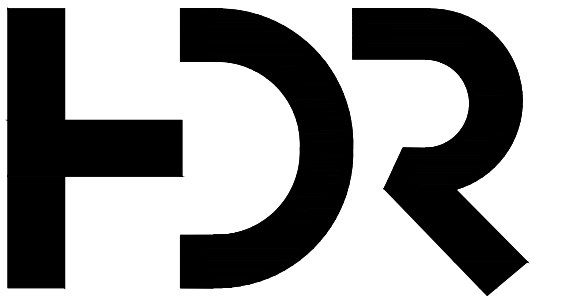
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**ORIENTATION PLAN**



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### PLANTING NOTES

1. THE FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE OF THE A/E & O/R.
2. SEE SPECIFICATIONS FOR ADDITIONAL PLANTING REQUIREMENTS.
3. FOR PLANT LIST AND DETAILS, SEE SHEETS LP100 AND LP501.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING AND PROPOSED SITE UTILITIES PRIOR TO THE INSTALLATION OF PLANT MATERIAL. IF A CONFLICT ARISES, NOTIFY A/E.
5. PROVIDE 3" SHREDDED COMPOSTED HARDWOOD BARK MULCH CONTINUOUS UNDER PLANT MASSINGS AND AROUND INDIVIDUAL PLANTS.
6. PERFORM WORK IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.
7. PLANTING SHALL BE GUARANTEED FOR A PERIOD OF TWO GROWING SEASON BEYOND THE TIME OF PLANTING.
8. CONTRACTOR SHALL ALLOW FOR THE STAKING OF 10% OF THE TOTAL NUMBER OF SHADE, EVERGREEN, AND ORNAMENTAL TREES.

### LAYOUT NOTES

1. CONTRACTOR SHALL LAYOUT ALL SITE ELEMENTS FOR A/E APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL STAKE FENCE LAYOUT FOR A/E APPROVAL PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL LAYOUT ALL SIGNAGE & STRIPING FOR A/E APPROVAL PRIOR TO INSTALLATION.
4. ALL CURB CONTROLS, & CURB RADII FROM FRONT FACE OF CURB UNLESS OTHERWISE NOTED.
5. WALKWAY DIMENSION FROM FRONT FACE OF CURB.

### DEMOLITION NOTES

1. ALL ITEMS LABELED AS TO BE REMOVED, ARE TO BE DEMOLISHED, REMOVED FROM SITE AND DISPOSED OF LEGALLY.
2. ALL HOLES & EXCAVATED PITS DUE TO REMOVAL OF STRUCTURES AND HARDSCAPE SHALL BE FILLED WITH STRUCTURAL FILL AND COMPACTED THOROUGHLY. ALL OSHA SAFETY PRECAUTIONS AND PROCEDURES SHALL BE FOLLOWED.
3. ALL PROPER SOIL EROSION CONTROL MEASURES SHALL BE FOLLOWED AS PER PLAN. IF S.E.C. CONTROLS ARE IN THE WAY, THEY MAY BE MOVED IN CLEAR WEATHER ONLY. THEY SHALL BE REPLACED BACK PROPERLY AS SOON AS POSSIBLE OR BEFORE LEAVING THE WORK SITE, ON A DAILY BASIS.
4. REMOVE AND PROPERLY CAP AND VALVE ALL UTILITIES AS DIRECTED BY THE UTILITY COMPANY AND OWNER REQUIREMENTS.
5. RESET ALL VALVES, CATCH BASINS, MANHOLES AND SURFACE APPURTENANCES, NOT BEING REMOVED, TO FINISH GRADE IN ALL AREAS OF REGRADING AND RESURFACING.
6. ALL CONTAMINATED SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF SITE.
7. CONCRETE, BRICK, & ASPHALT TO BE REMOVED SHALL BE CRUSHED INTO AGGREGATE TO BE MIXED INTO SOIL FOR STRUCTURAL FILL.
8. ALL GRAVEL AND BASE GRAVEL TO BE REMOVED SHALL BE STOCKPILED WITH CRUSHED RUBBLE AS NOTED.
9. ALL TREES TO BE REMOVED SHALL BE TAGGED AND APPROVED BY THE A/E PRIOR TO REMOVAL.
10. ALL STUMPS TO BE REMOVED AND PROPERLY DISPOSED OF OFF SITE. IF OPTION TO DISPOSE OF ON SITE PER A/E & OWNER REQUIREMENTS.
11. IF CHIPPING, SPREAD ALL CHIPS IN AN EVEN COATING IN AREAS ACCEPTABLE TO A/E & OWNER.
12. ALL TREES TO REMAIN SHALL HAVE TREE PROTECTION. TREE PROTECTION SHALL REMAIN UNTIL COMPLETION OF CONSTRUCTION. DISTURBANCE SHALL BE KEPT TO A MINIMUM WHEN WORKING WITHIN TREE PROTECTION AREAS; FENCING SHALL BE UP WHEN AREAS ARE NOT BEING WORKED ON.
13. CONTRACTOR SHALL PROVIDE SEPARATE CONTAINERS AND/OR LOCATIONS FOR ALL RECYCLABLE CONSTRUCTION WASTE AND MATERIALS. ALL WASTE AND MATERIALS SHALL BE PLACED IN APPROPRIATE CONTAINERS, OR AREAS FOR PROPER RECYCLING. FOLLOW ALL CONSTRUCTION GUIDELINES AND/OR MANUALS FOR JOB SPECIFIC RECYCLING. RECYCLED MATERIALS TO BE USED ON SITE OR TAKEN TO APPROPRIATE FACILITIES TO INCLUDE, BUT NOT BE LIMITED TO: WOOD, SPECIFIC METALS, GENERAL METAL, PLASTICS, & PAPER. ALL HARDSCAPE SURFACES TO BE CRUSHED FOR REUSE.
14. CONTRACTOR, RESPONSIBLE FOR CALLING LOCAL UTILITY COMPANY WITHIN 72 HOURS ADVANCE NOTICE OF ANY EXCAVATION. CONTRACTOR SHALL HAND DIG IN THE VICINITY OF ANY UTILITY CONNECTIONS.
15. SEE SHEET C? FOR SITE LAYOUT PLAN.
16. SEE SHEET C \_\_\_\_\_ FOR SITE GRADING PLAN.
17. SEE SHEETS C \_\_\_\_\_ & C \_\_\_\_\_ FOR SOIL & EROSION CONTROL PLAN & NOTES.

### GENERAL NOTES

1. ALL BASE INFORMATION OBTAINED FROM SURVEY INFORMATION PROVIDED BY \_\_\_\_\_, DATED \_\_\_\_\_, AS BUILT SURVEY INFORMATION PROVIDED BY \_\_\_\_\_, DATED \_\_\_\_\_.
2. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES, AUTHORITIES, AND JURISDICTIONS. CONTRACTOR TO COMPLY WITH ALL PERMITTING AND REGULATORY PROCEDURES, CONTRACTOR TO PAY FOR AND OBTAIN ALL PERMITS.
3. REMOVE AND PROPERLY CAP AND VALVE ALL UTILITIES AS DIRECTED BY THE UTILITY OWNER.
4. RESET ALL VALVES, CATCH BASINS, MANHOLES AND SURFACE APPURTENANCES, NOT BEING REMOVED, TO FINISH GRADE IN ALL AREAS OF REGRADING AND RESURFACING.
5. PATCH ALL EXISTING ASPHALT AS REQUIRED.
6. COORDINATE POINTS AS MARKED PER CHART ON SHEET \_\_\_\_\_.
7. SEE SHEETS \_\_\_\_\_ & \_\_\_\_\_ FOR SITE DEMOLITION PLAN.
8. SEE SHEETS \_\_\_\_\_ & \_\_\_\_\_ FOR SITE MATERIALS & LAYOUT PLAN.
9. SEE SHEETS \_\_\_\_\_ & \_\_\_\_\_ FOR SITE GRADING PLAN.
10. SEE SHEETS \_\_\_\_\_ & \_\_\_\_\_ FOR SOIL EROSION CONTROL PLAN.

### The Ottawa Hospital New Civic Development Parking Garage

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Sheet Reviewer: \_\_\_\_\_ Author: \_\_\_\_\_

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### GENERAL, DEMO AND LANDSCAPE NOTES

Sheet Number: L-002

Project Status: Progress Submission

APPROVED  
By Lily Xu at 4:53 pm, Sep 12, 2022

*Lily Xu*

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



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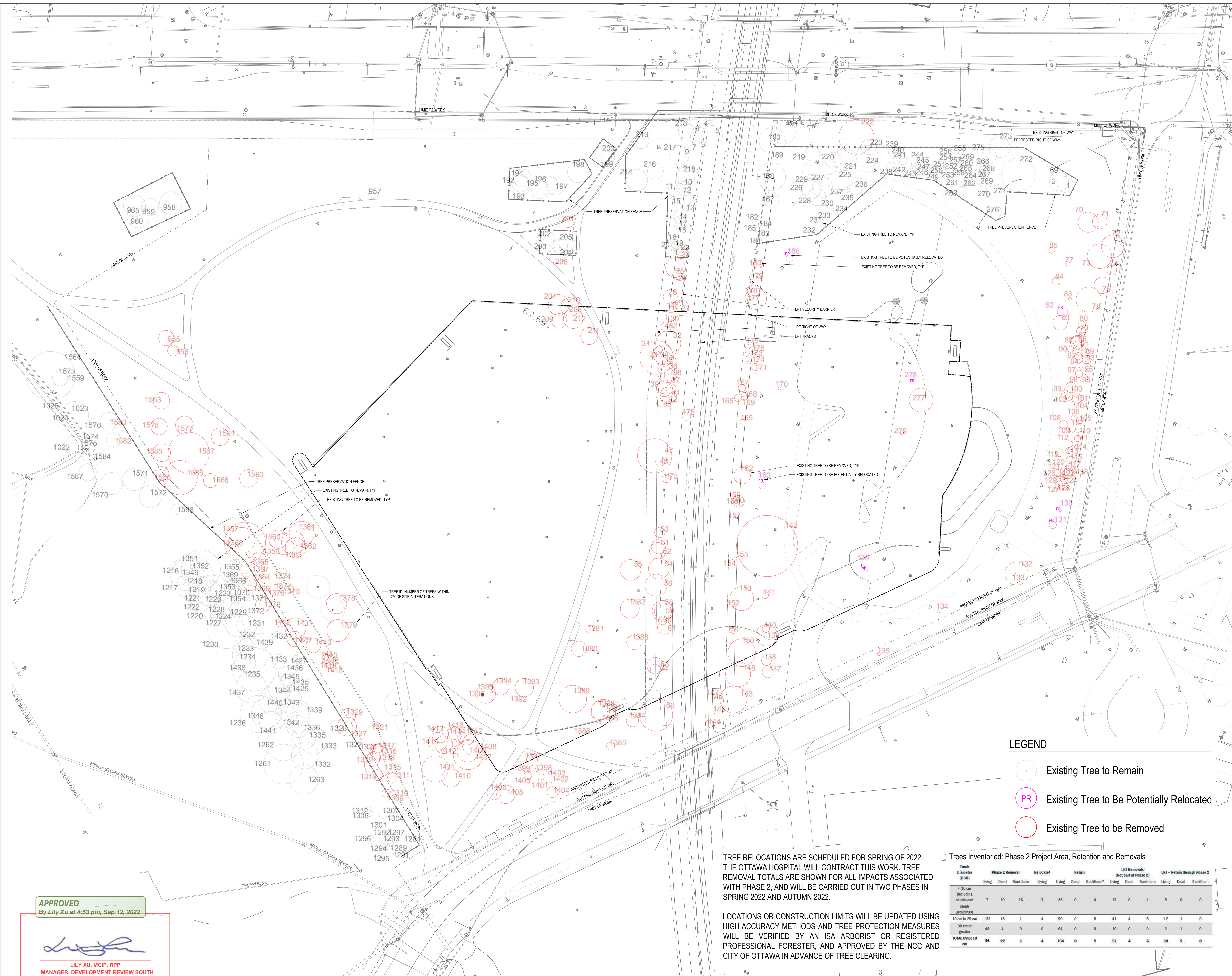
Project Number: 10305722  
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LANDSCAPE TREE  
PRESERVATION &  
REMOVAL PLAN

Sheet Name

LD-101  
Progress Submission



LEGEND

- Existing Tree to Remain
- Existing Tree to Be Potentially Relocated
- Existing Tree to be Removed

TREE RELOCATIONS ARE SCHEDULED FOR SPRING OF 2022. THE OTTAWA HOSPITAL WILL CONTRACT THIS WORK. TREE REMOVAL TOTALS ARE SHOWN FOR ALL IMPACTS ASSOCIATED WITH PHASE 2, AND WILL BE CARRIED OUT IN TWO PHASES IN SPRING 2022 AND AUTUMN 2022.

LOCATIONS OR CONSTRUCTION LIMITS WILL BE UPDATED USING HIGH-ACCURACY METHODS AND TREE PROTECTION MEASURES WILL BE VERIFIED BY AN ISA ARBORIST OR REGISTERED PROFESSIONAL FORESTER, AND APPROVED BY THE NCC AND CITY OF OTTAWA IN ADVANCE OF TREE CLEARING.

Trees Inventoried: Phase 2 Project Area, Retention and Removals

Trunk Diameter (DBH)	Phase 2 Removal			Relocate <sup>1</sup>			Retain			LRT Removals (Not part of Phase 2)			LRT - Retain through Phase 2		
	Living	Dead	Backthorn <sup>2</sup>	Living	Living	Dead	Backthorn <sup>2</sup>	Living	Dead	Backthorn <sup>2</sup>	Living	Dead	Backthorn <sup>2</sup>		
< 10 cm (including shrubs and shrub groupings)	7	10	16	3	26	0	4	12	0	1	5	0	0		
10 cm to 29 cm	132	18	1	4	90	0	9	41	4	6	12	1	0		
30 cm or greater	48	4	0	0	64	0	0	10	0	0	2	1	0		
TOTAL OVER 10 cm	180	22	1	4	154	0	9	51	4	6	14	2	0		

APPROVED  
By Lili Xu at 4:53 pm, Sep 12, 2022

*Lili Xu*  
LILI XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

LANDSCAPE TREE REMOVAL, RELOCATION AND PROTECTION PLAN

SCALE: 1:400



# 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.

# 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 has been tentatively identified within the project area and will be flagged during the site walkthrough. The Butternut tree is located approximately 90 m from the limits of construction activity and is not expected to be impacted, therefore no further protection is required at this time.

## WILDLIFE INCLUDING SARA

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.ottawa.ca/environment-and-energy/species-at-risk/mnr\\_sar\\_tx\\_sar\\_hnd\\_mnl\\_en.pdf](https://files.ottawa.ca/environment-and-energy/species-at-risk/mnr_sar_tx_sar_hnd_mnl_en.pdf) [files.ottawa.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.

## TREE RELOCATION

Tree ID	Common Name	Scientific Name	DBH	Stems	CRZ	Condition	Condition Notes
82	Apple sp	Malus sp	17	1	1.7	2-Good	minor decay
130	Sugar Maple	Acer saccharum	4	1	0.4	5	
131	Hackberry	Celtis occidentalis	12	1	1.2	2-Good	very low scaffold branches
136	Red Maple	Acer rubrum	7	1	0.7	5	
160	Ohio Buckeye	Aesculus glabra	11	1	1.1	5	
188	Ohio Buckeye	Aesculus glabra	12	1	1.2	5	
278	Hackberry	Celtis occidentalis	3	1	0.3	3-Fair	broken leader to be pruned

- A qualified Tree Relocation Expert must be retained by the contractor to carry out the relocation of 7 identified trees 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.

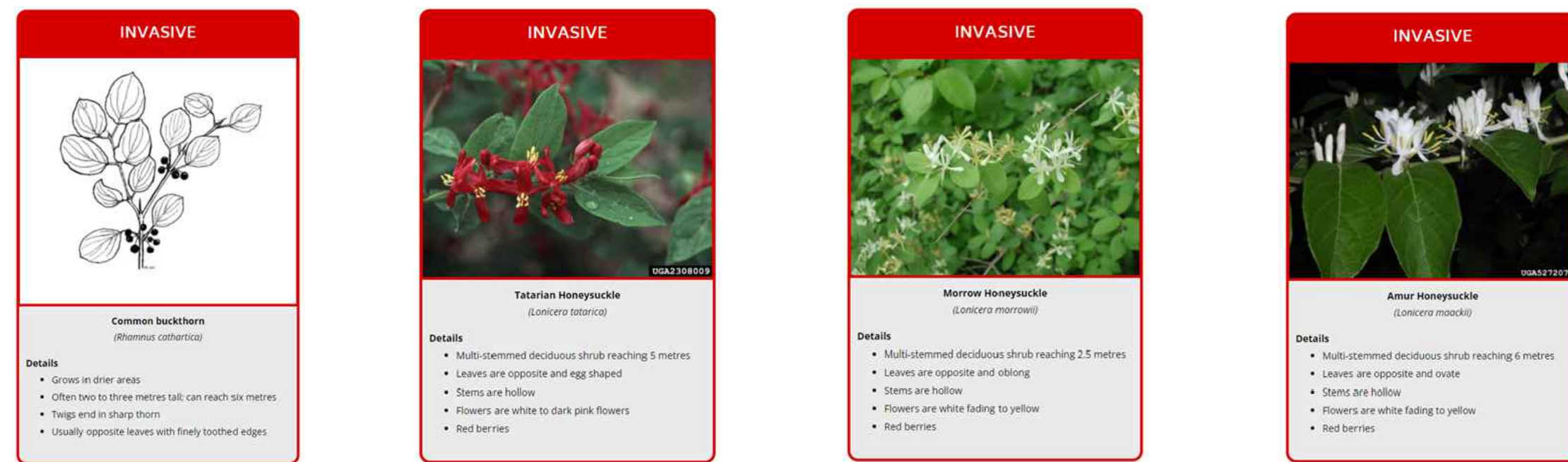
## ROOT PRUNING PRACTICES

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 square 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 with 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.

# 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* (Nuisman) 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 Saip, Washington State Department of Agriculture, Bugwood.org



APPROVED By Lily Xu at 4:54 pm, Sep 12, 2022

LILY XU, MCIP, RPP MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, INFRASTRUCTURE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

## BRANCH PRUNING PRACTICES

The following are standard BMPs for branch pruning:

- Due to the removal of trees within the project area, it 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

# TREE REMOVAL PHASING

Tree Removals as part of Phase 2 will occur in 3 phases:

- Phase 1: Early Works, Queen Juliana Park and NCC Parking Lot
- Phase 2: LRT Corridor
- Phase 3: Road B, MUP Widening, and remaining shrub clearing

Phase 1 and Phase 2 will be carried out in Spring 2022, under an existing landscape maintenance contract with TOH. Phase 3 will be carried out in Autumn 2022, under the direction of the Contract Manager for the Phase 2 Parking Garage. The timing of all tree removals is subject to timing windows (see: Timing Windows for Tree Removals).

# 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:

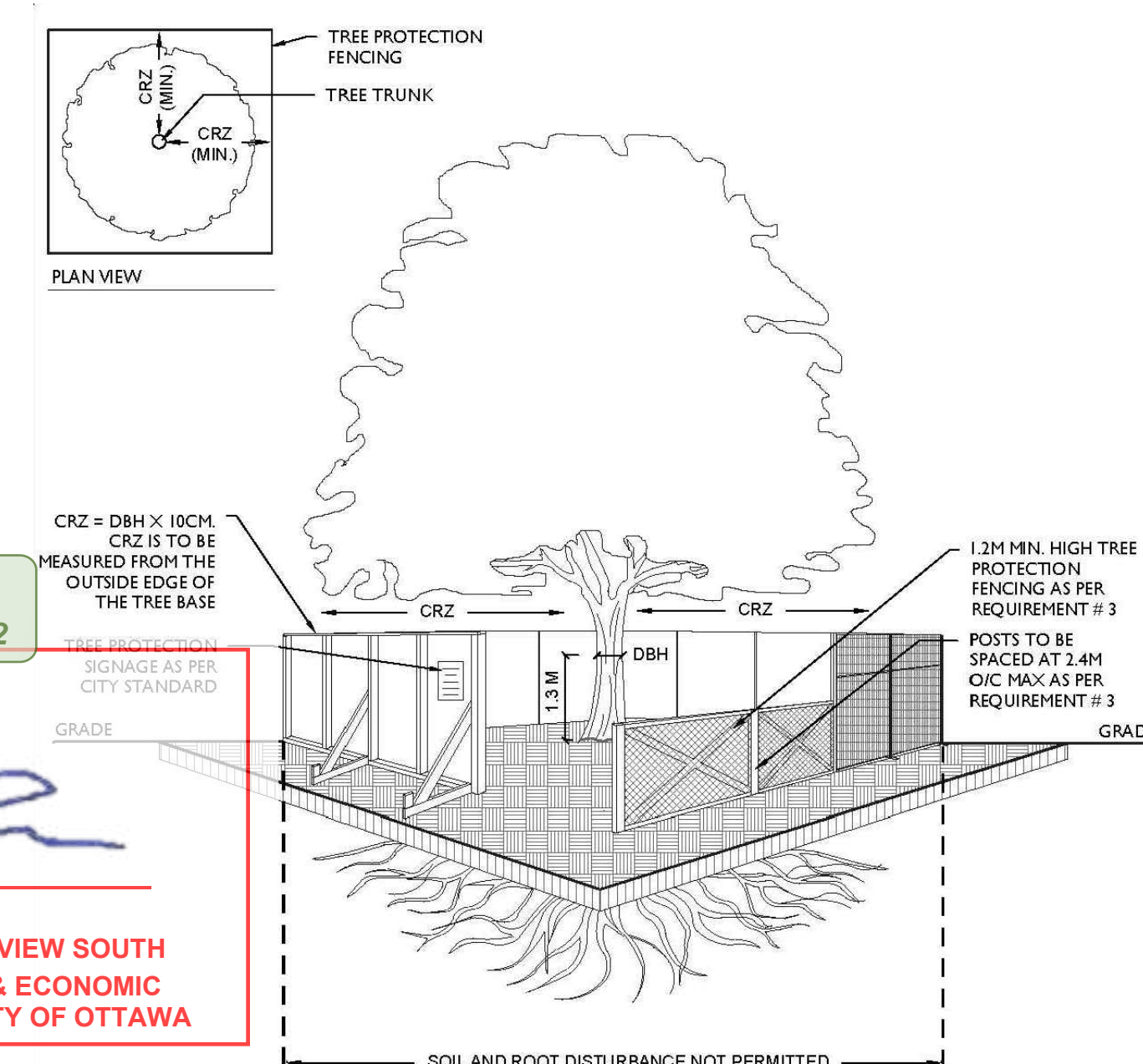
- As a general precaution, tree and vegetation removals (including mowing of tall grass) shall be conducted outside of ECCC's bird nesting window for the Ottawa region (April 8 to August 31). Tree removal of individual cavity trees or of trees in wooded habitats should be conducted prior to April 1 or 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

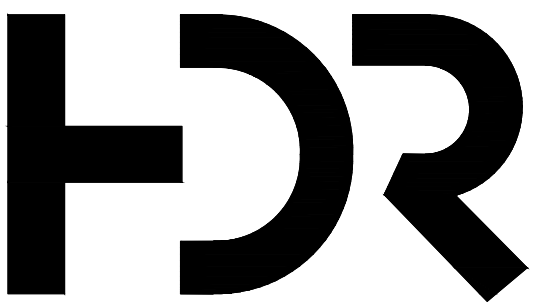
- TREES MAY BE PROTECTED INDIVIDUALLY, OR AS A GROUPING.
- THE SAME STANDARDS APPLY TO ALL TREES TO BE PROTECTED.
- A TREE PROTECTION FENCING INSPECTION WILL BE CARRIED OUT BY THE CITY OF OTTAWA AS A CONDITION OF THE TREE CUTTING PERMIT.



**TREE PROTECTION REQUIREMENTS**

- PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ) 1.0 X DIAMETER OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SUBMITTING UNDER THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
- FENCING PLANS ARE PROVIDED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ.
  - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING GLOUTHOUSES,
  - 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,
  - INSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY,
  - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING.
- TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. WOOD/CULC-STEEL, PLYWOOD BOARDING, OR SNOW FENCE ON A 2"x4" WOOD FRAME) WITH POSTS 1.5M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMIZE DAMAGE TO EXISTING ROOTS. (SEE DETAIL).
- 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 CONSTRUCTION FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
- IF THE 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 PLACING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-040 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.



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

# The Ottawa Hospital New Civic Development Parking Garage

930 Carling Avenue & 520 Preston Street, Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jessie Emery Gion
Project Architect	Project Architect
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Equipment Planner
Equipment Planner	HDR
Wastewater	

Sheet Reviewer	Author
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MARK	DATE	DESCRIPTION
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11	2022-06-03	ISSUED FOR SPC APPROVAL
10	2022-04-25	ISSUED FOR NCC REVIEW
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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number	1030572
Original Issue	September 2021



# LANDSCAPE TREE PRESERVATION DETAIL

Sheet Number	LD-102
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Progress Submission



# 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 till 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/](http://www.invadingspecies.com/report/) or [www.eddmaps.org/Ontario](http://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...

Clean Equipment Protocol for Industry

SUMMARY

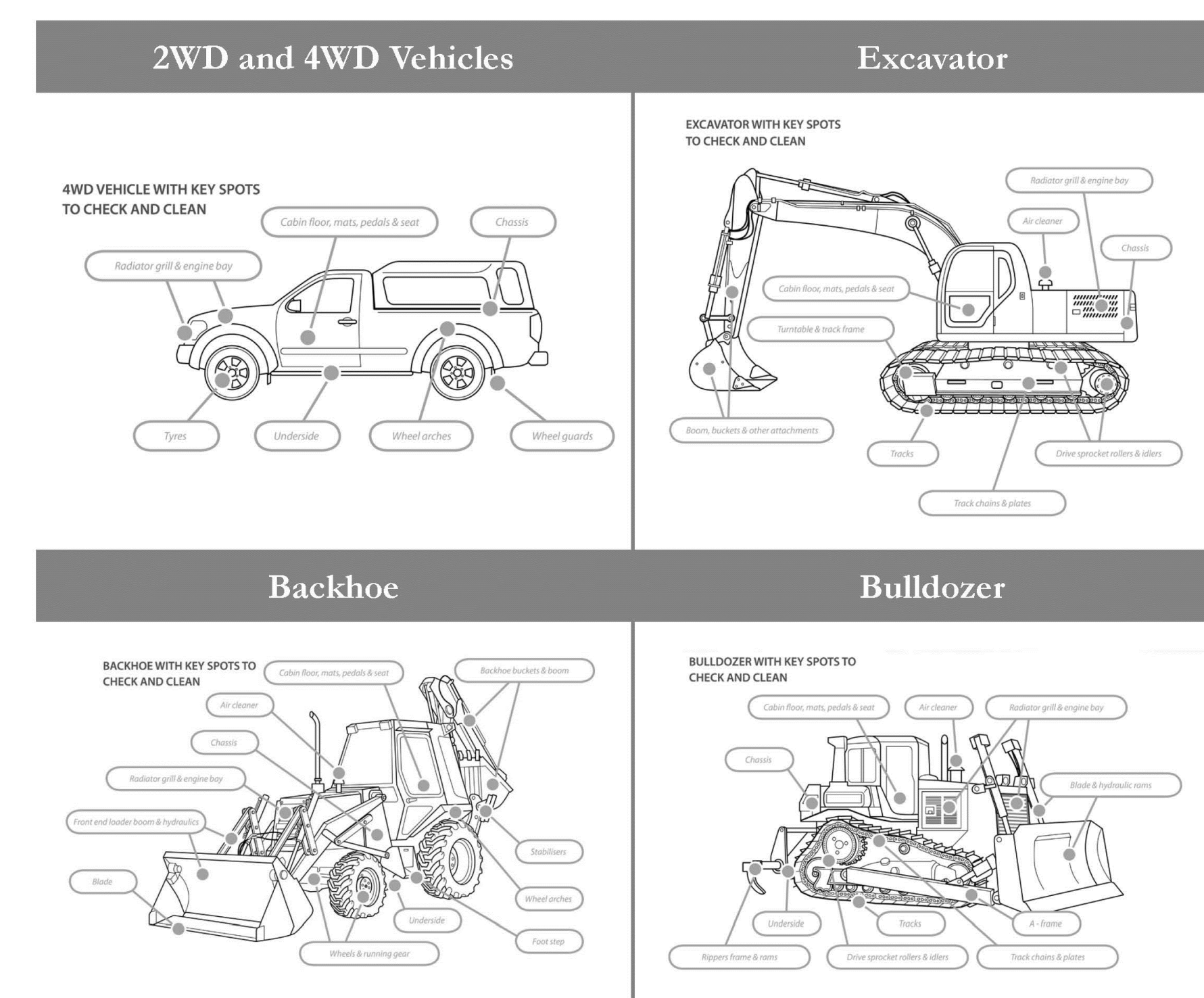
Ontario Invasive Plant Council

## 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.



**APPROVED**  
By Lily Xu at 4:54 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
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Catalyst for research and response



Clean Equipment Protocol for Industry

SUMMARY

Ontario Invasive Plant Council



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## The Ottawa Hospital New Civic Development Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



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Project Designer	Jessie Emery Green
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Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: \_\_\_\_\_ Author: \_\_\_\_\_

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01	2021-06-18	ISSUED FOR SD SUBMISSION

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## CLEAN EQUIPMENT PROTOCOL

Sheet Number

**LD-103**

Project Status  
Progress Submission

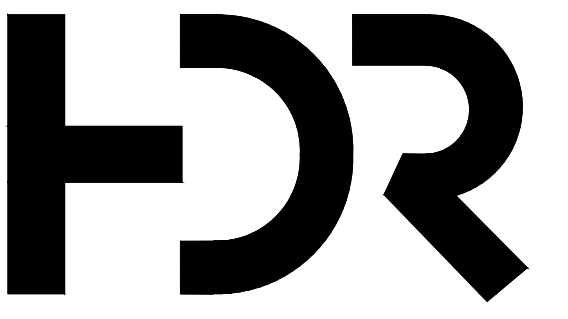












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The Ottawa Hospital  
New Civic Development  
Parking Garage

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**Interior Designer** Interior Designer  
**Equipment Planner** Equipment Planner  
**Wayfinding** HDR

Sheet Reviewer: Author

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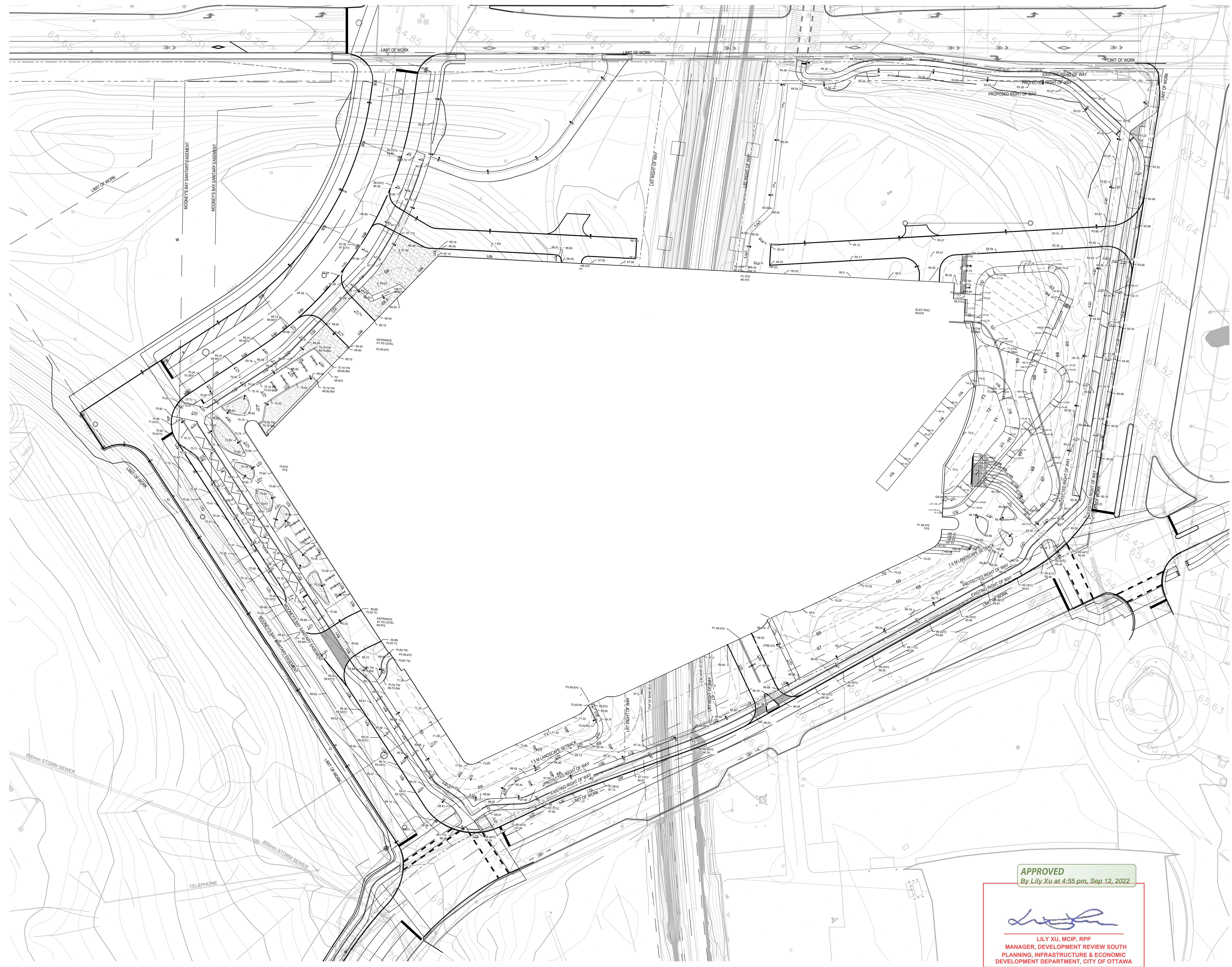
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Project Number: 10305722  
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Sheet Name  
**GROUND PLANE  
GRADING PLAN**

Sheet Number  
**LG-101**  
Progress Submission

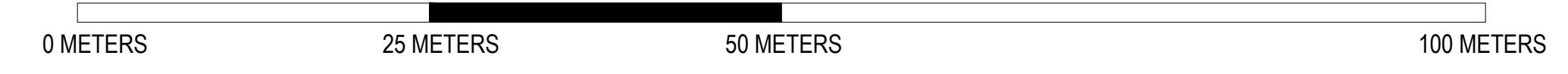


**APPROVED**  
By Lily Xu at 4:55 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

GROUND PLANE GRADING PLAN

SCALE: 1:400



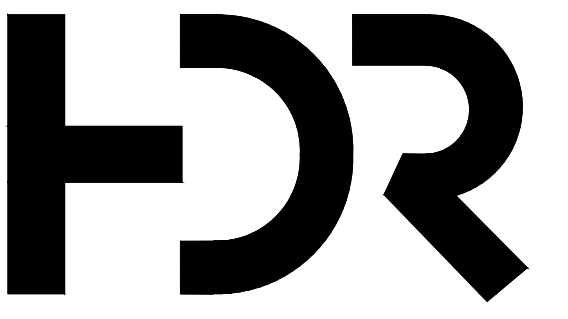




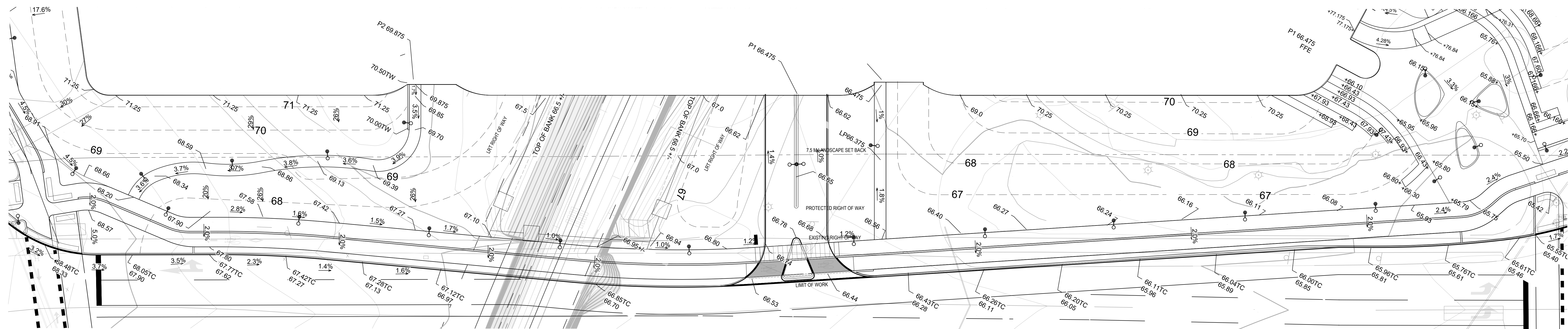
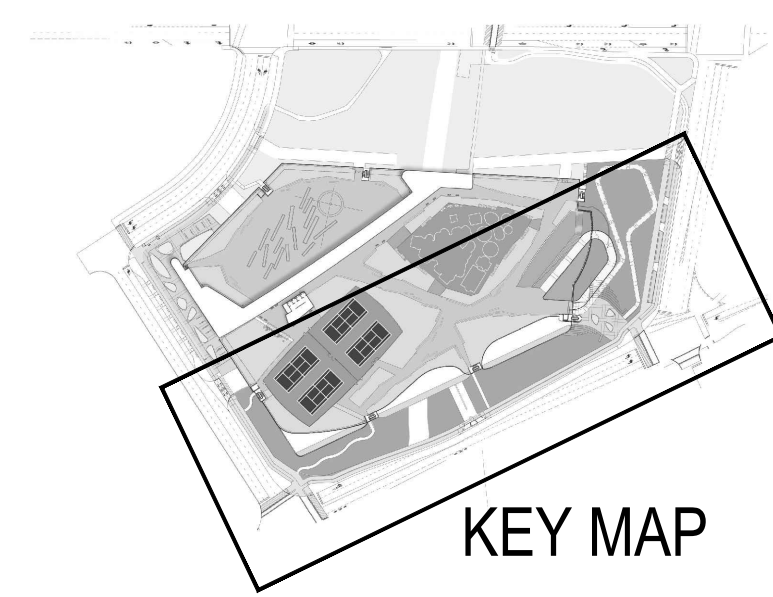








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Ottawa, Ontario K1Z 6X6



PRINCE OF WALES GRADING PLAN ENLARGEMENT

SCALE: 1:200

### The Ottawa Hospital New Civic Development Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fahn  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

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02	2021-09-03	ISSUED 30% CD
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Project Number: 10305722  
Original Issue: September 2021



### PUBLIC REALM GROUND PLANE GRADING PLAN ENLARGEMENTS

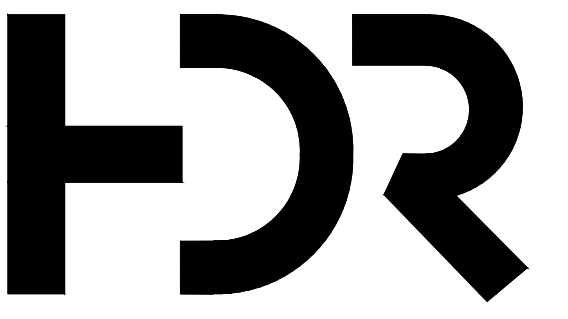
Sheet Number: **LG-104**

Project Status: Progress Submission

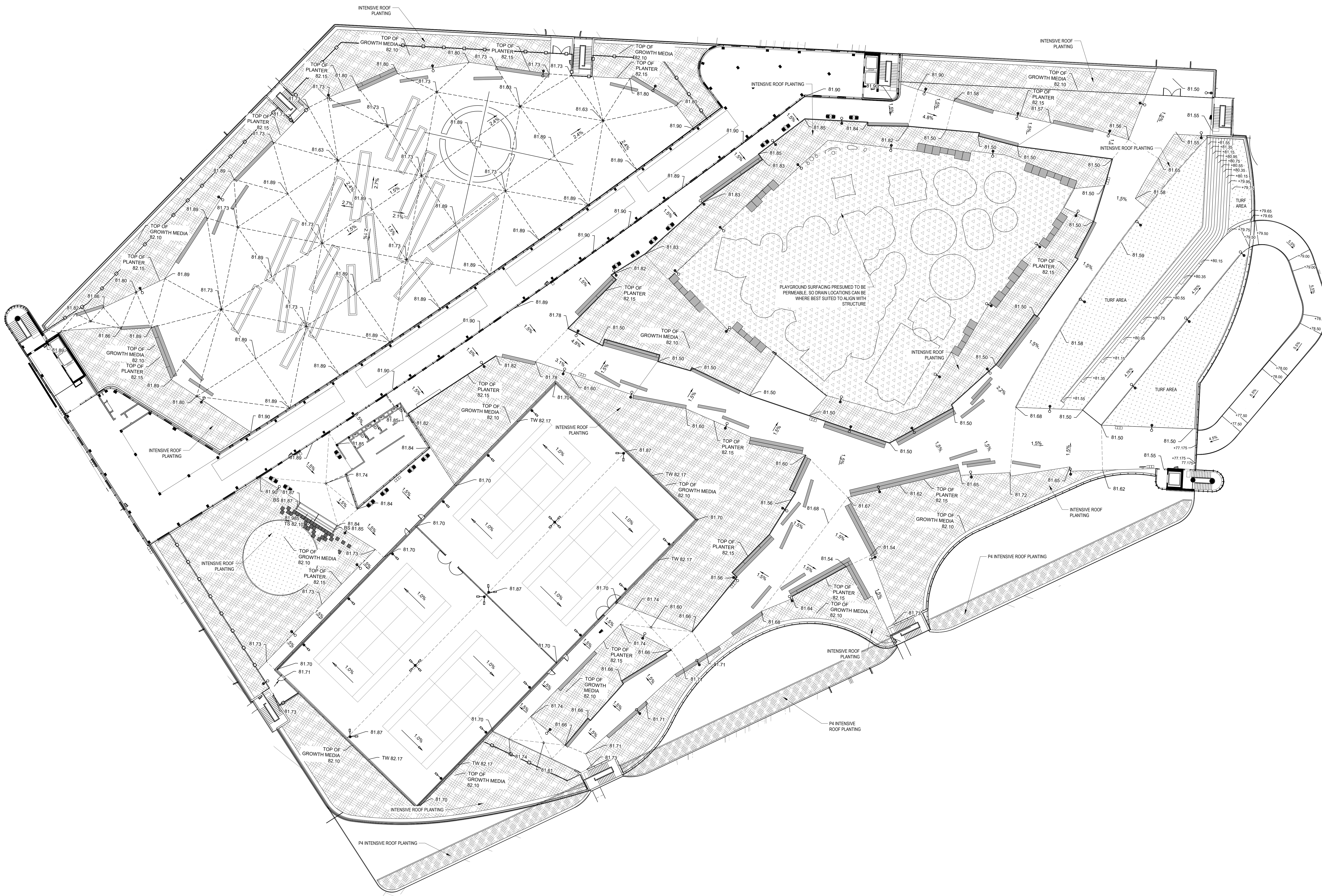
**APPROVED**  
By Lily Xu at 4:56 pm, Sep 12, 2022

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MANAGER, DEVELOPMENT REVIEW SOUTH  
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA





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GREEN ROOF GRADING PLAN

SCALE: 1:250

**APPROVED**  
By Lily Xu at 4:57 pm, Sep 12, 2022

*Lily Xu*  
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

The Ottawa Hospital  
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Parking Garage

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Original Issue: September 2021



GREEN ROOF  
GRADING PLAN

Sheet Number  
**LG-201**

Project Status  
Progress Submission

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The Ottawa Hospital  
New Civic Development  
Parking Garage

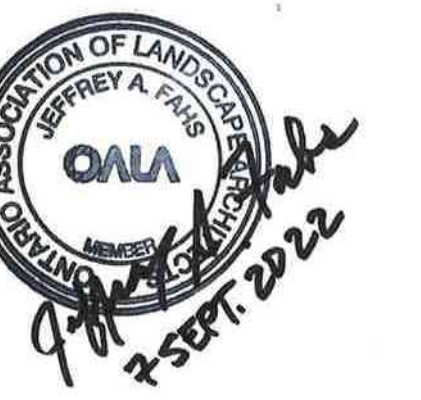
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Project Manager	Robert Malloy
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Sheet Reviewer: Author

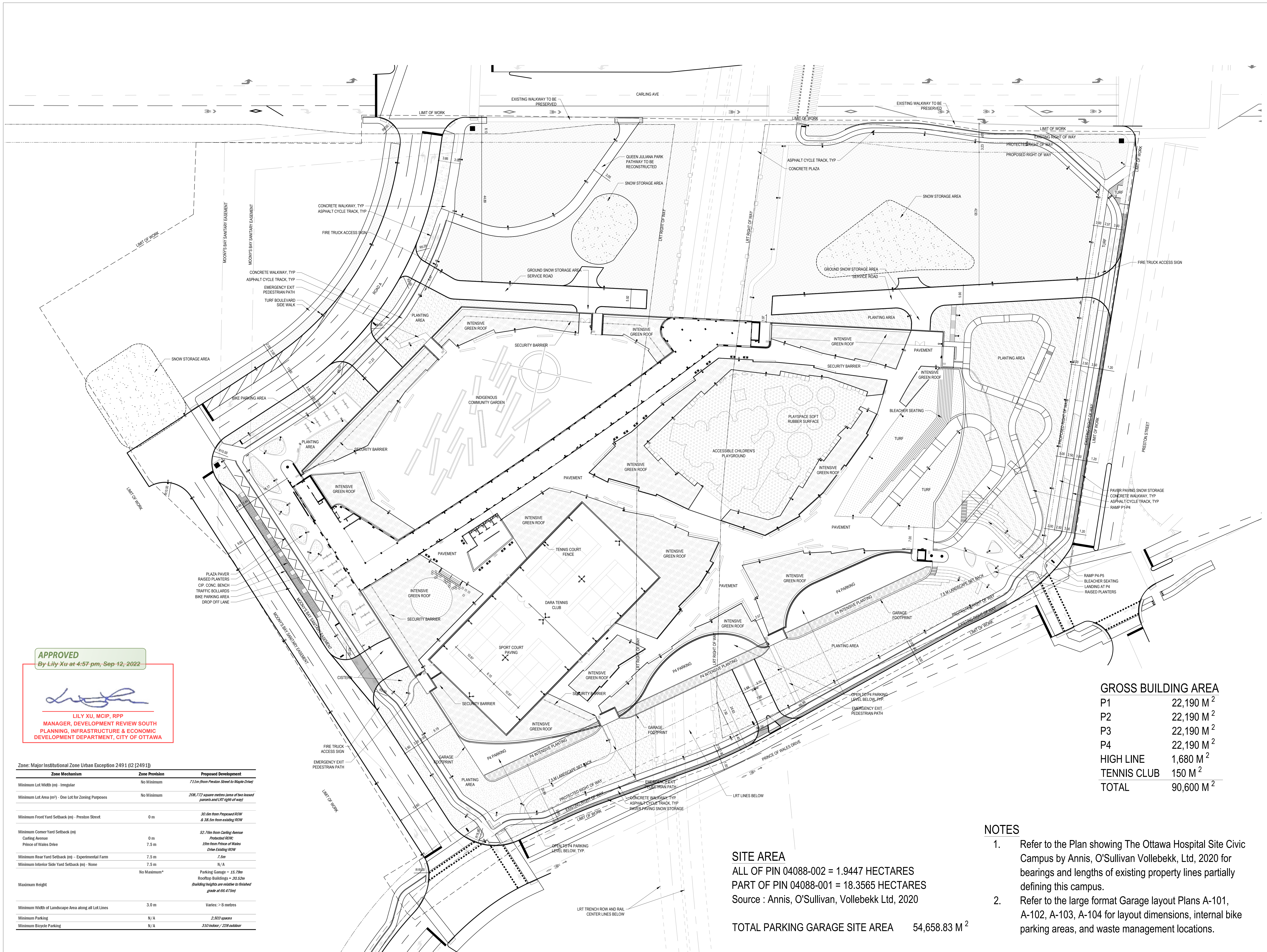
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OVERALL SITE PLAN

LL-101



APPROVED  
By Lily Xu at 4:57 pm, Sep 12, 2022

LILY XU, MCIIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

Zone: Major Institutional Zone Urban Exception 2491 (2) [2491]

Zone Mechanism	Zone Provision	Proposed Development
Minimum Lot Width (m) - Irregular	No Minimum	71.1m (from Preston Street to Maple Drive)
Minimum Lot Area (m <sup>2</sup> ) - One Lot for Zoning Purposes	No Minimum	206,172 square metres (area of two leased parcels and LRT right-of-way)
Minimum Front Yard Setback (m) - Preston Street	0 m	30.0m from Proposed ROW 4.38.5m from existing ROW
Minimum Corner Yard Setback (m)	0 m	52.76m from Carling Avenue Protected ROW; 0.8m from Prince of Wales Drive Existing ROW
Minimum Rear Yard Setback (m) - Experimental Farm	7.5 m	7.5m
Minimum Interior Side Yard Setback (m) - None	7.5 m	N/A
Maximum Height	No Minimum*	Parking Garage - 15.79m RoofTop Buildings - 20.52m (building heights are relative to finished grade at 66.47' top)
Minimum Width of Landscape Area along all Lot Lines	3.0 m	Varies: > 8 metres
Minimum Parking	N/A	2,503 spaces
Minimum Bicycle Parking	N/A	310 indoor / 229 outdoor

GROSS BUILDING AREA

P1	22,190 M <sup>2</sup>
P2	22,190 M <sup>2</sup>
P3	22,190 M <sup>2</sup>
P4	22,190 M <sup>2</sup>
HIGH LINE	1,680 M <sup>2</sup>
TENNIS CLUB	150 M <sup>2</sup>
TOTAL	90,600 M <sup>2</sup>

NOTES

- Refer to the Plan showing The Ottawa Hospital Site Civic Campus by Annis, O'Sullivan Vollebek, Ltd, 2020 for bearings and lengths of existing property lines partially defining this campus.
- Refer to the large format Garage layout Plans A-101, A-102, A-103, A-104 for layout dimensions, internal bike parking areas, and waste management locations.

SITE AREA

ALL OF PIN 04088-002 = 1.9447 HECTARES  
PART OF PIN 04088-001 = 18.3565 HECTARES  
Source : Annis, O'Sullivan, Vollebek Ltd, 2020

TOTAL PARKING GARAGE SITE AREA 54,658.83 M<sup>2</sup>

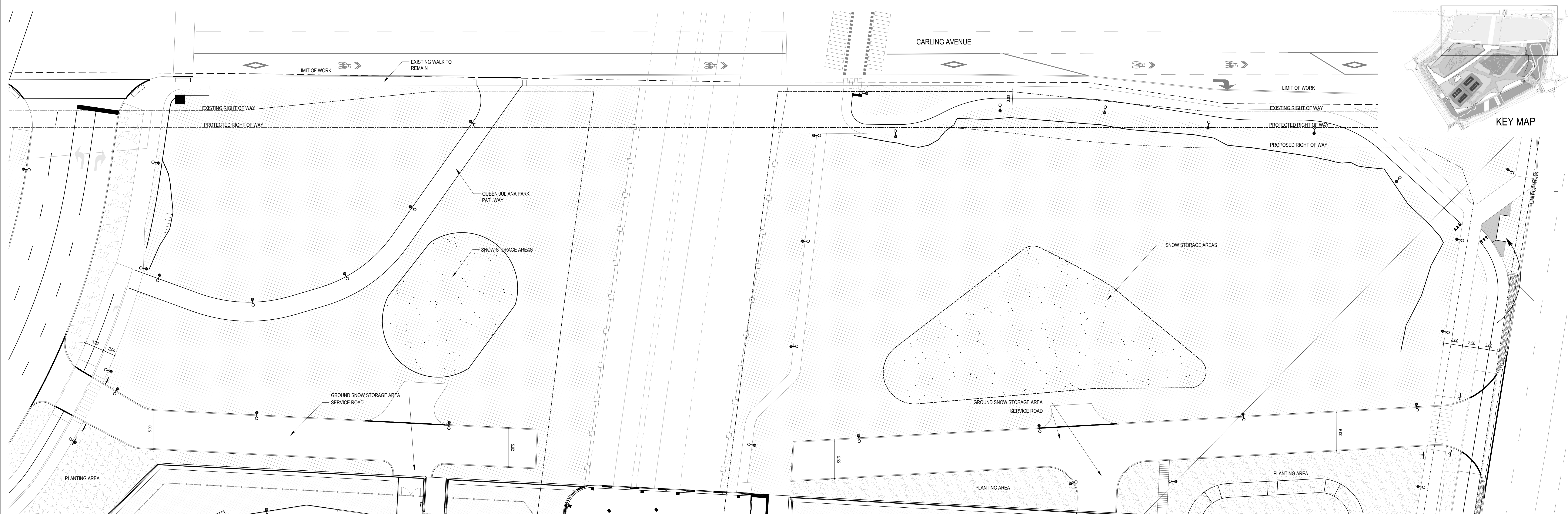
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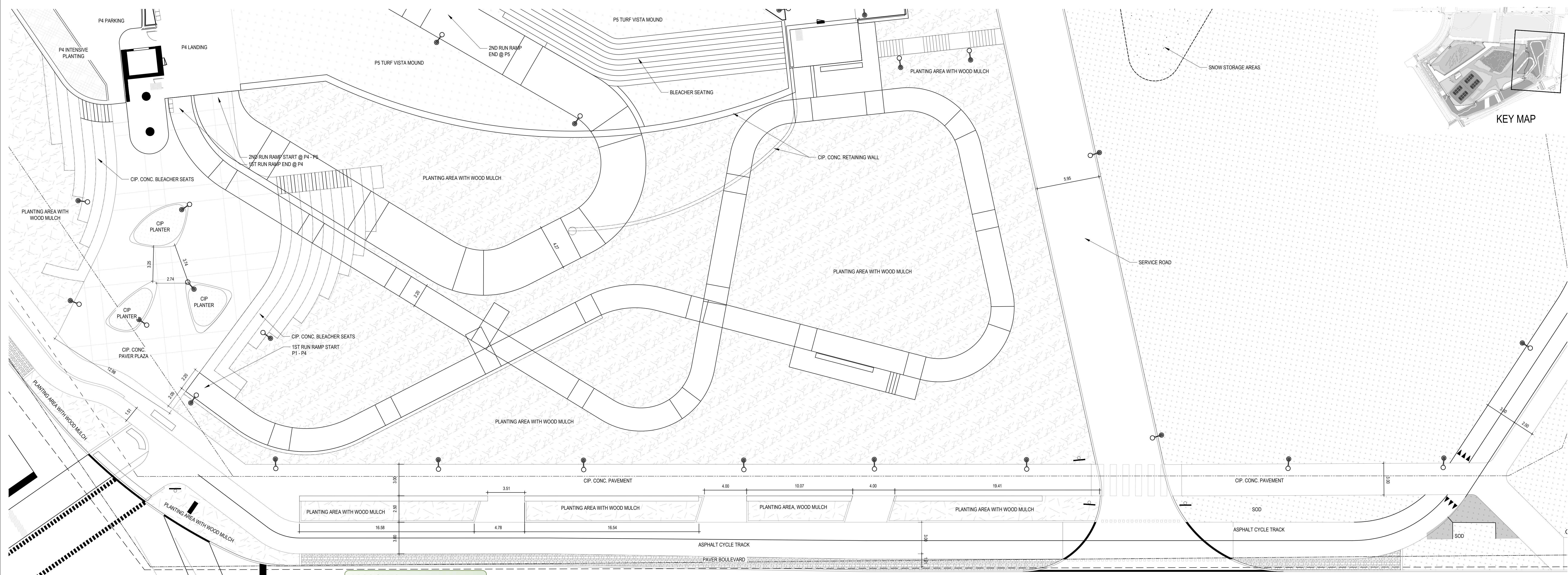


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200  
Ottawa, Ontario K1Z 6X6



CARLING FRONTAGE LANDSCAPE ENLARGEMENT

SCALE: 1:250



PRESTON LANDSCAPE ENLARGEMENT

SCALE: 1:150

**APPROVED**  
By Lily Xu at 4:58 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9

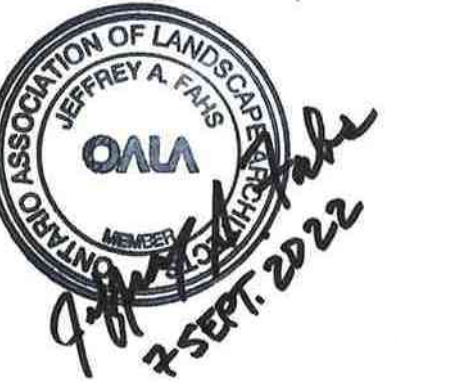


Project Manager	Robert Malloy
Project Designer	Jacobs Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer	Author
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MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR NCC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
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03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number 10305722  
Original Issue September 2021



Streetscape  
Landscape  
Enlargements

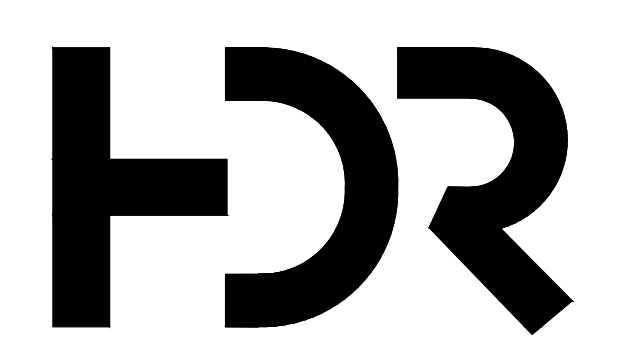
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Progress Submission

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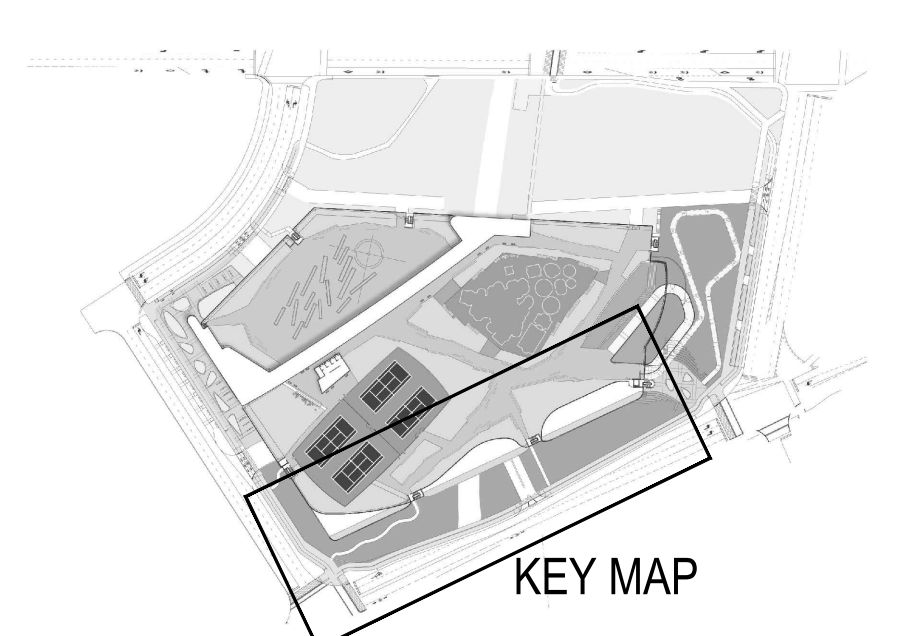
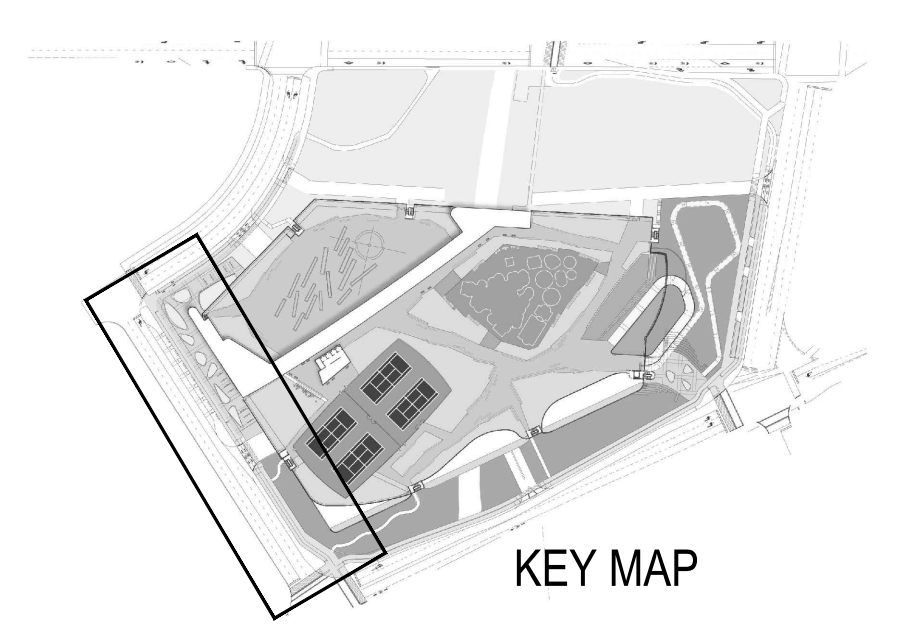
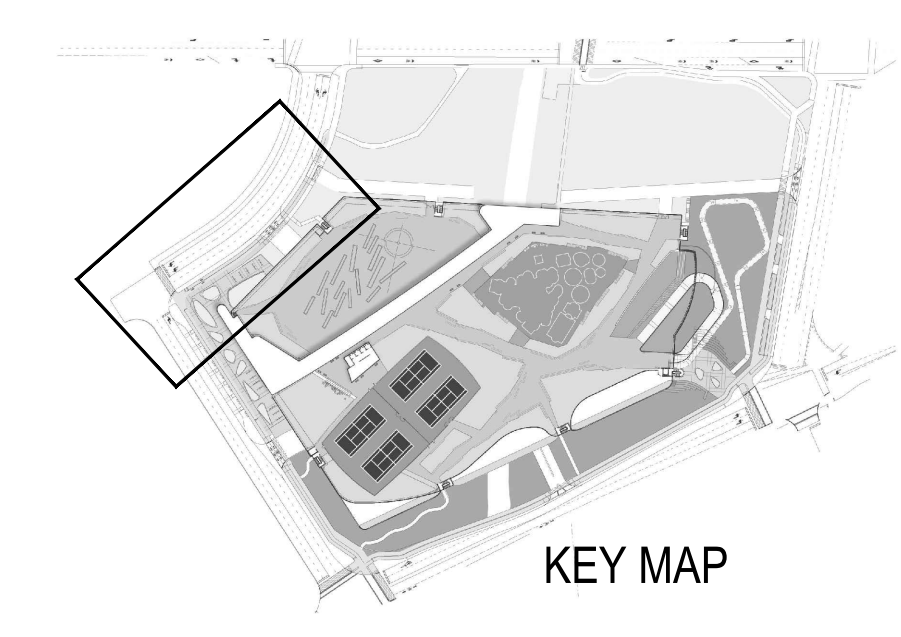
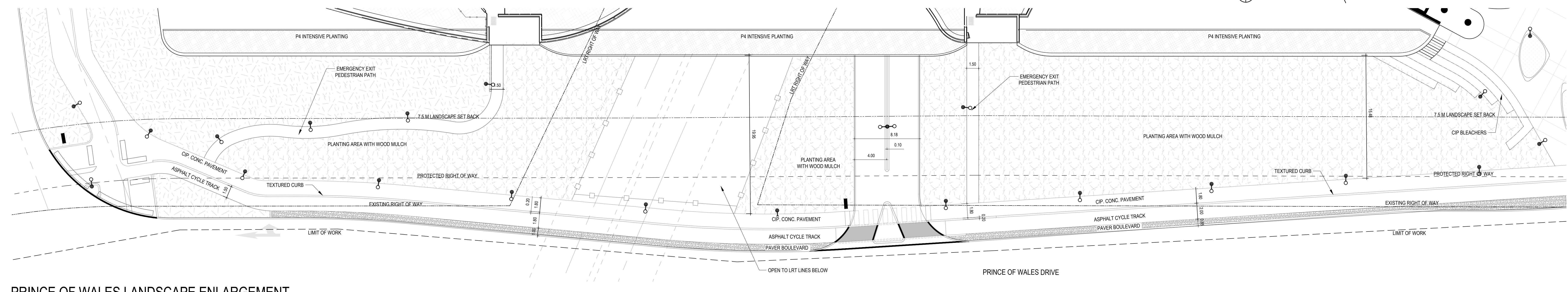
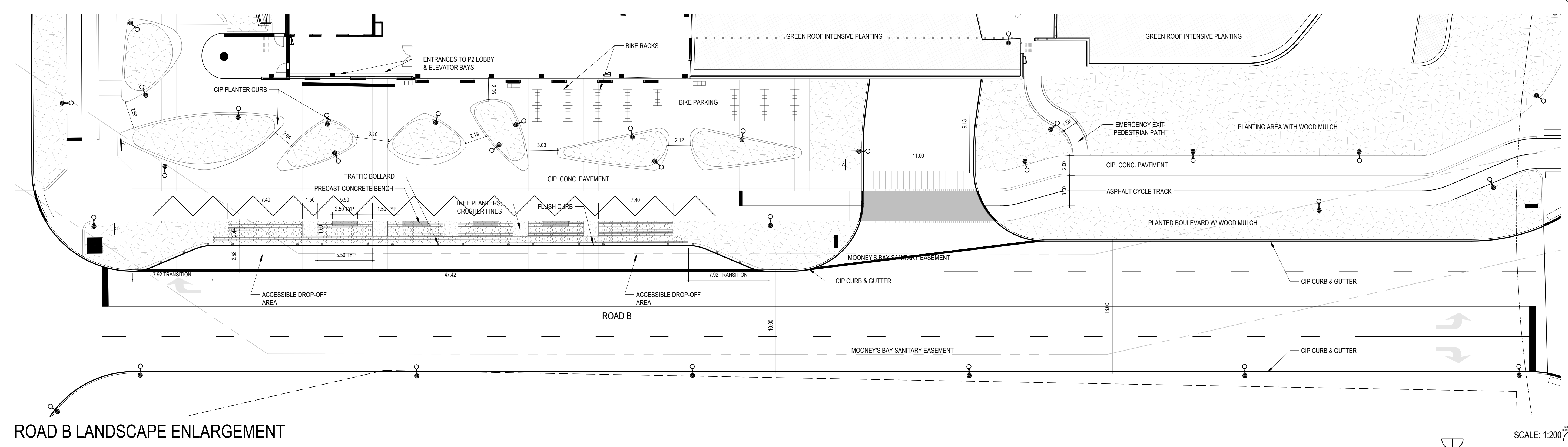


**APPROVED**  
By Lily Xu at 4:58 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
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The Ottawa Hospital  
New Civic Development  
Parking Garage

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Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
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Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer	Author
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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number	10305722
Original Issue	September 2021

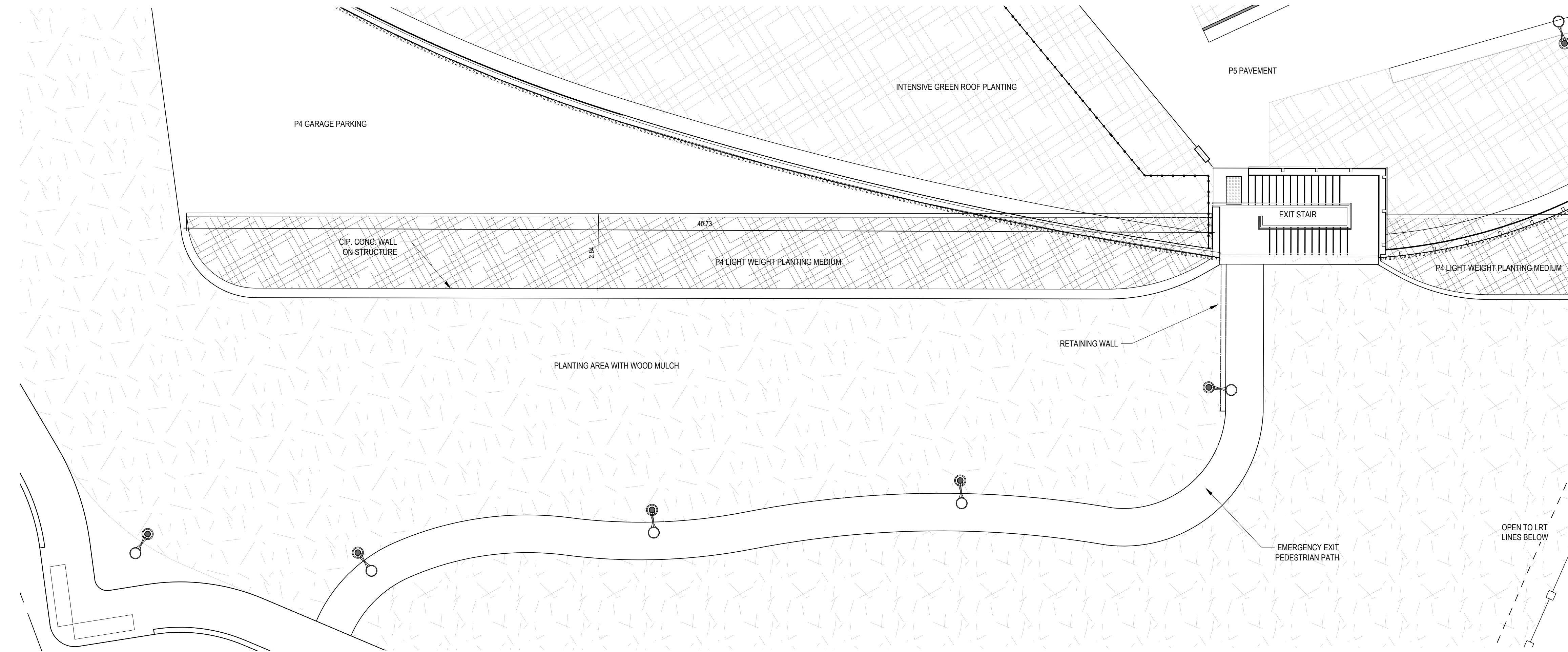
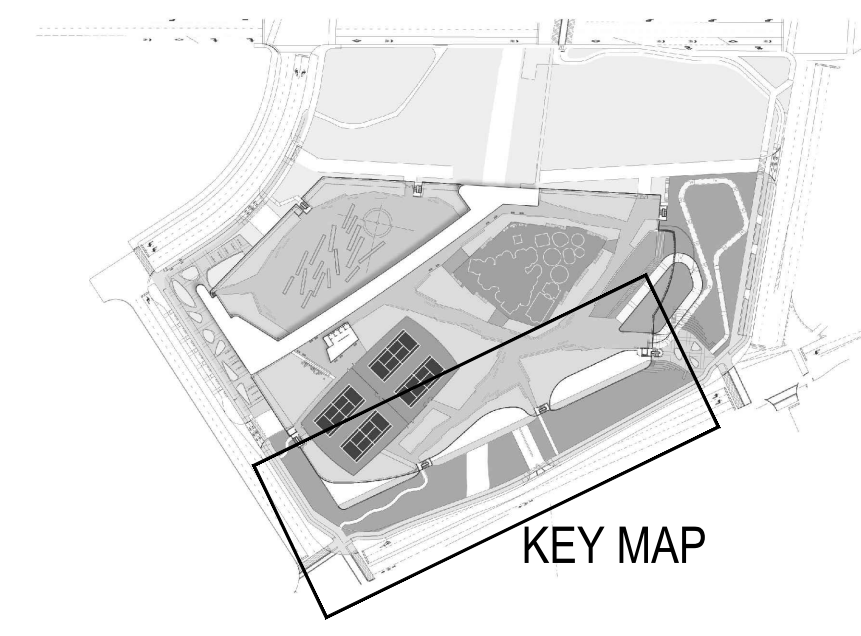


Streetscape  
Landscape  
Enlargements

Sheet Number  
**LL-103**  
Progress Submission

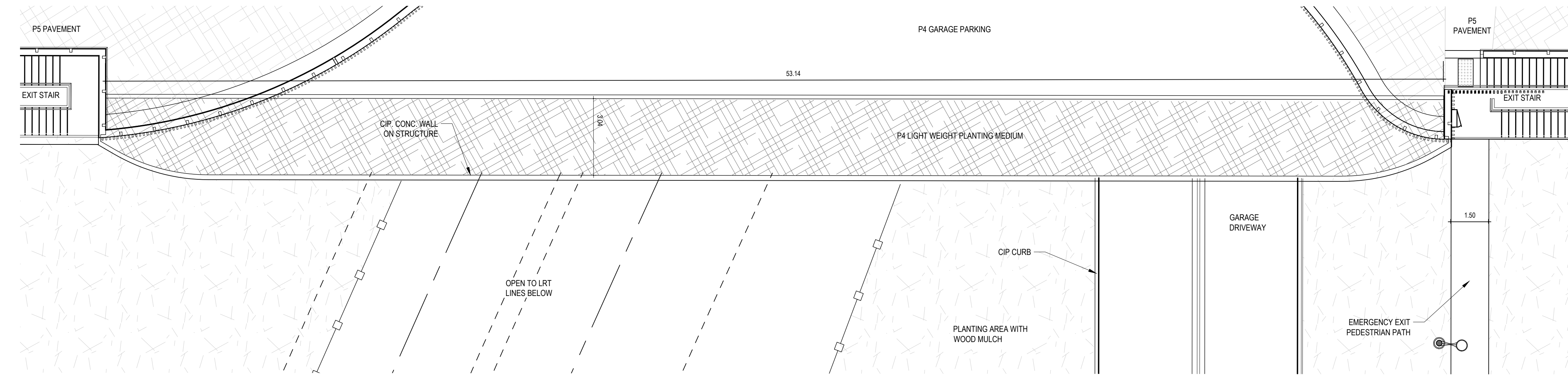
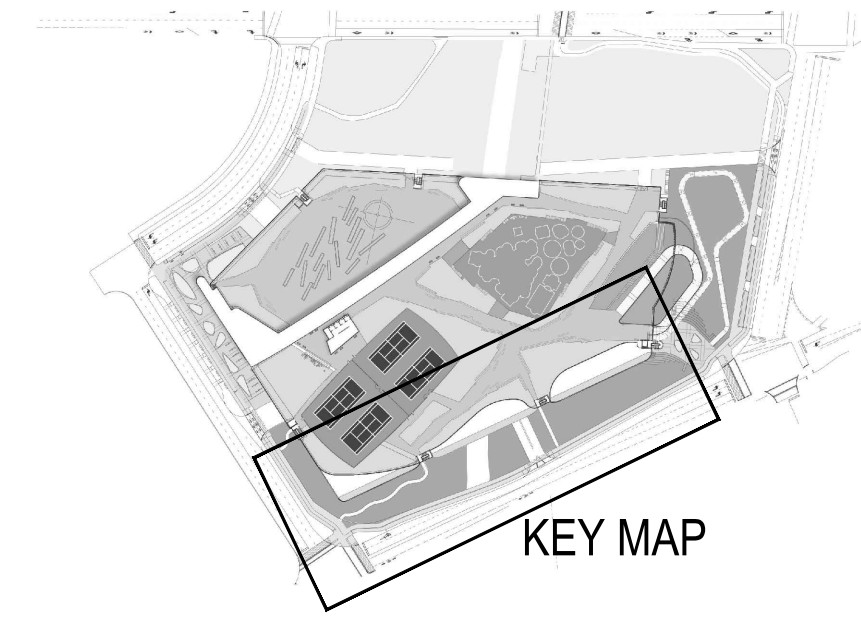
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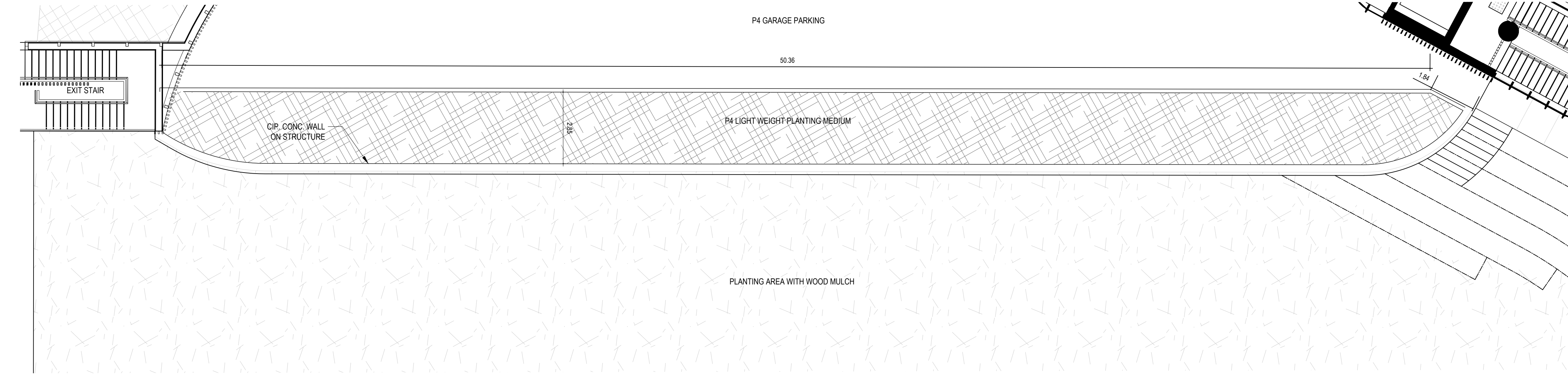
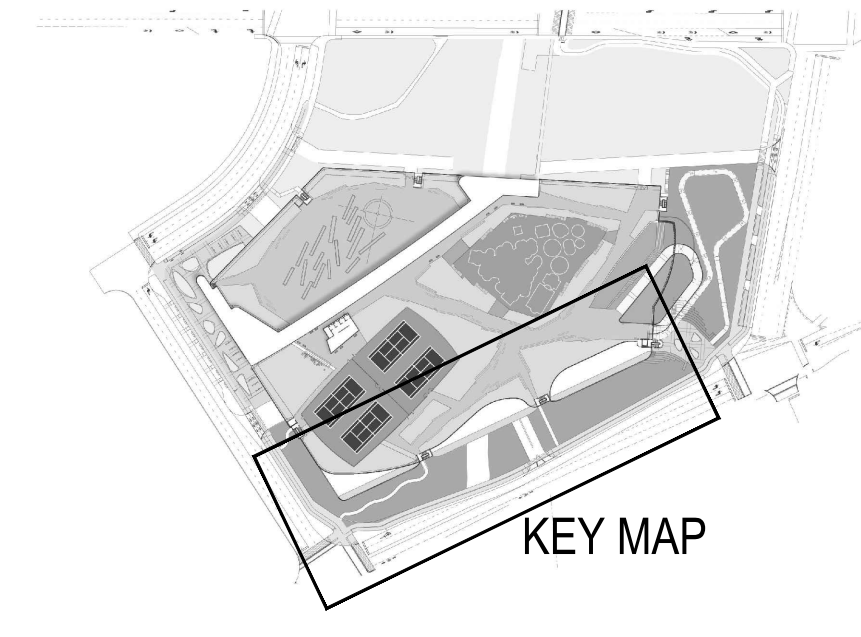
P4 LANDSCAPE ENLARGEMENT A

SCALE: 1:100



P4 LANDSCAPE ENLARGEMENT B

SCALE: 1:100



P4 LANDSCAPE ENLARGEMENT C

SCALE: 1:100

The Ottawa Hospital  
New Civic Development  
Parking Garage

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520 Preston Street,  
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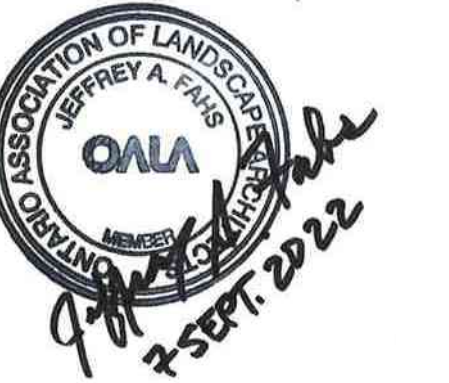


Project Manager	Robert Malloy
Project Designer	Jacques Emery-Groen
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
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Equipment Planner	Equipment Planner
Wayfinding	HDR

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number	10305722
Original Issue	September 2021



Sheet Name  
**P4 LANDSCAPE ENLARGEMENTS**

Sheet Number  
**LL-201**

Project Status  
Progress Submission

**APPROVED**  
By Lily Xu at 4:58 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



The Ottawa Hospital  
New Civic Development  
Parking Garage

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Ottawa, ON, K1Y 4E9



Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fahs  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**TENNIS ENLARGEMENT**

Sheet Number  
**LL-202**

Project Status  
Progress Submission



**APPROVED**  
By Lily Xu at 4:58 pm, Sep 12, 2022

*Lily Xu*

LILY XU, MCIIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

SCALE: 1:100

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TENNIS COURT ENLARGEMENT



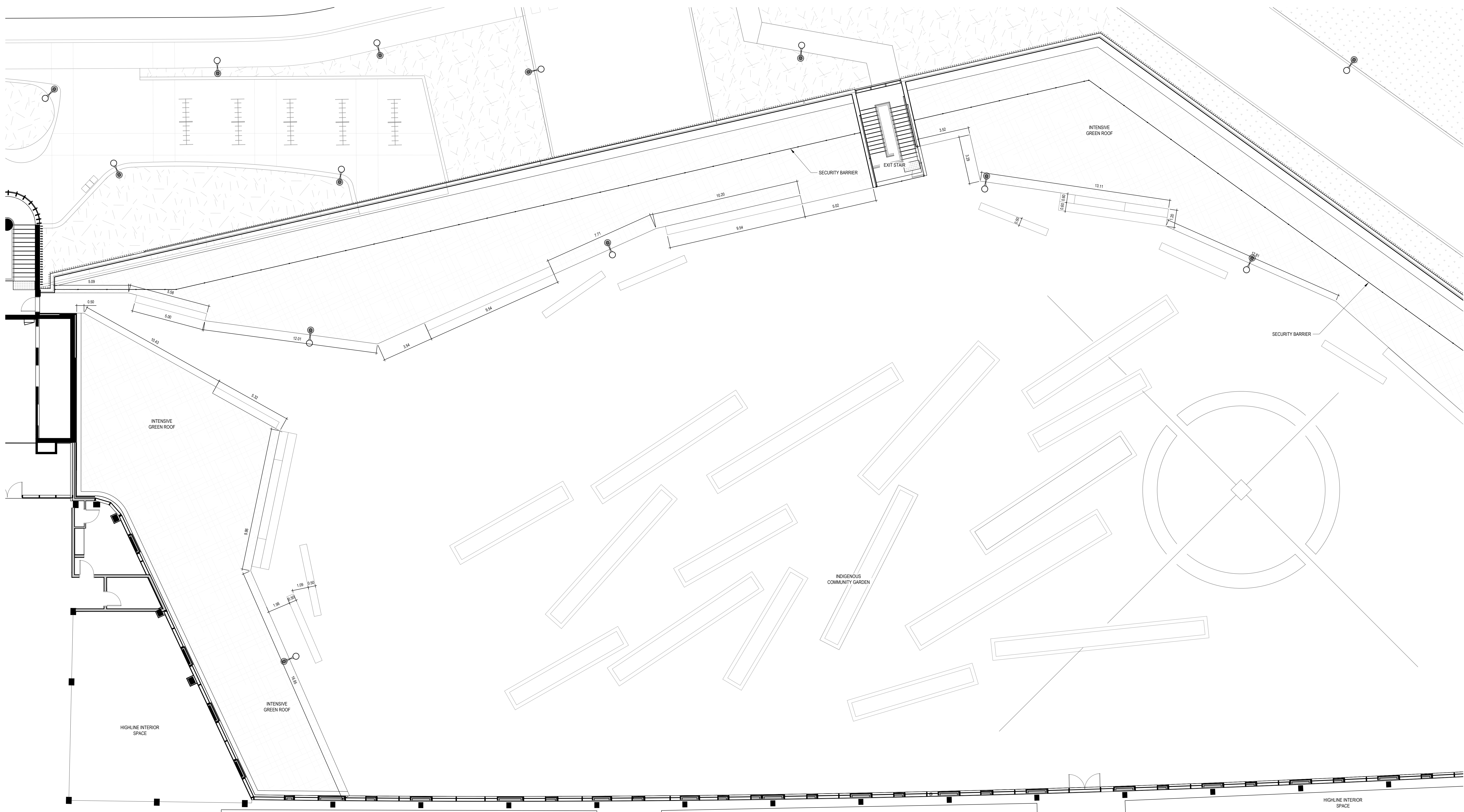
APPROVED  
By Lily Xu at 4:59 pm, Sep 12, 2022



LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



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The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery Green
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Wayfinding	HDR

Sheet Reviewer: Author

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01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



INDIGENOUS  
GARDEN  
ENLARGEMENT

Sheet Number  
**LL-203**

Project Status  
Progress Submission

INDIGENOUS COMMUNITY GARDEN ENLARGEMENT A

SCALE: 1:100

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The Ottawa Hospital  
New Civic Development  
Parking Garage

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520 Preston Street,  
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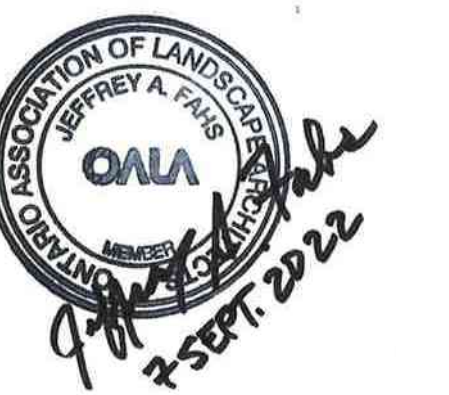
Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Jeff Fahs  
Landscape Architect: Jeff Fahs  
Civil Engineer: LEA Engineering  
Structural Engineer: Smith + Andersen  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Equipment Planner  
Equipment Planner: HDR  
Wayfinding: HDR

Sheet Reviewer: Author

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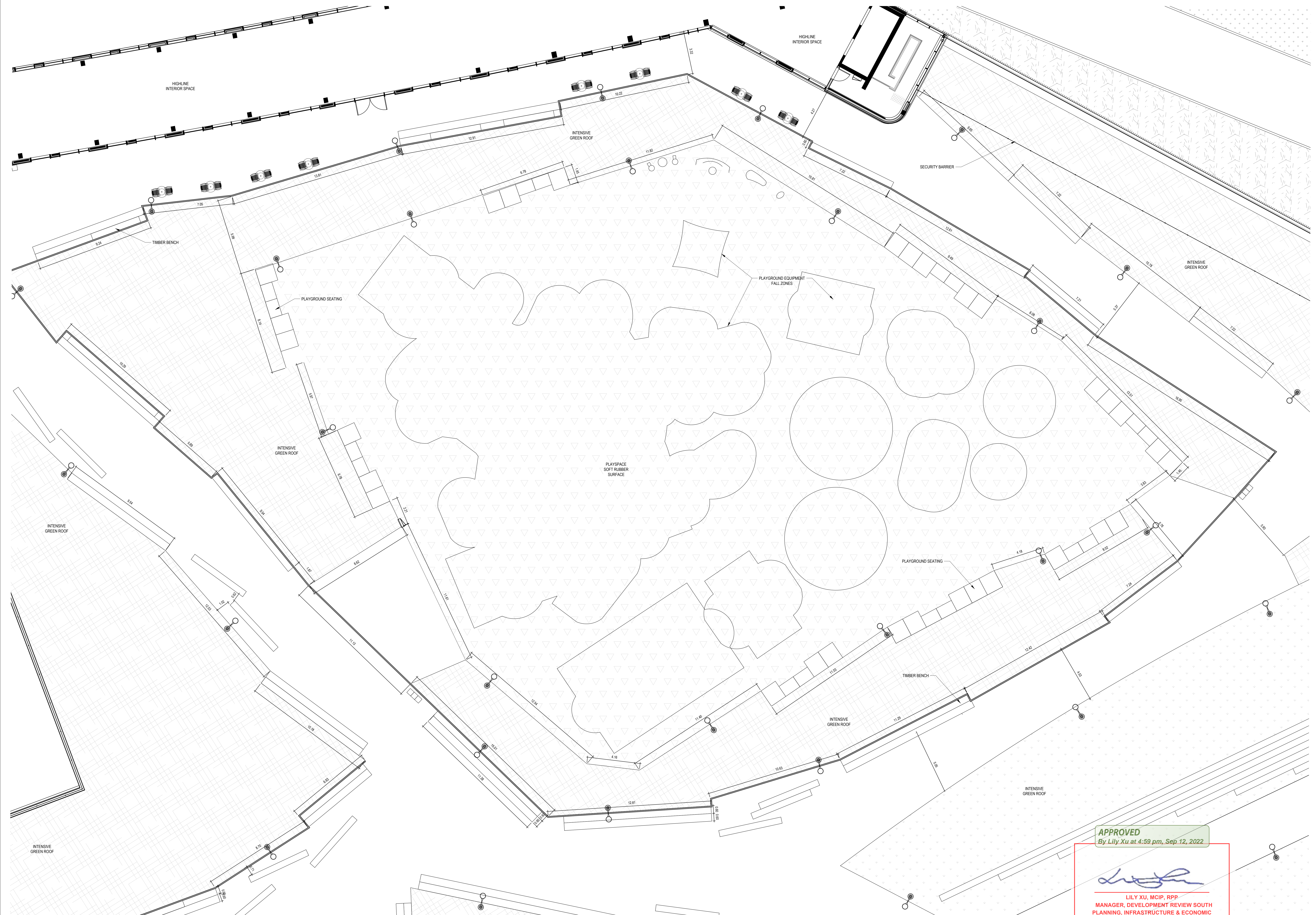
Project Number: 10305722  
Original Issue: September 2021



ACCESSIBLE  
PLAYGROUND  
ENLARGEMENT

Sheet Number  
**LL-205**

Project Status  
Progress Submission



**APPROVED**  
By Lily Xu at 4:59 pm, Sep 12, 2022

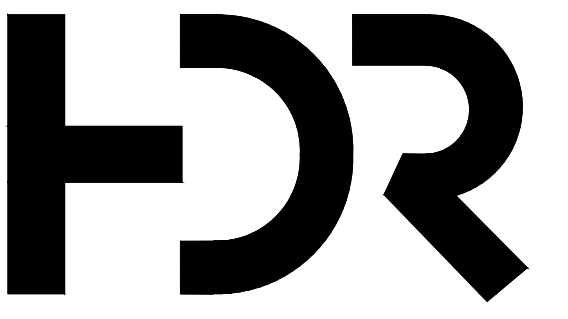
*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

SCALE: 1:100

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CHILDREN'S ACCESSIBLE PLAYGROUND ENLARGEMENT





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Ottawa, Ontario K1Z 6X6

### The Ottawa Hospital New Civic Development Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



**Project Manager** Robert Malloy  
**Project Designer** Jason Emery Green  
**Project Architect** Project Architect  
**Landscape Architect** Jeff Fahs  
**Civil Engineer** Civil Engineer  
**Structural Engineer** LEA Engineering  
**Mechanical Engineer** Smith + Andersen  
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**Interior Designer** Interior Designer  
**Equipment Planner** Equipment Planner  
**Wayfinding** HDR

Sheet Reviewer: Author

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Project Number: 10305722  
Original Issue: September 2021

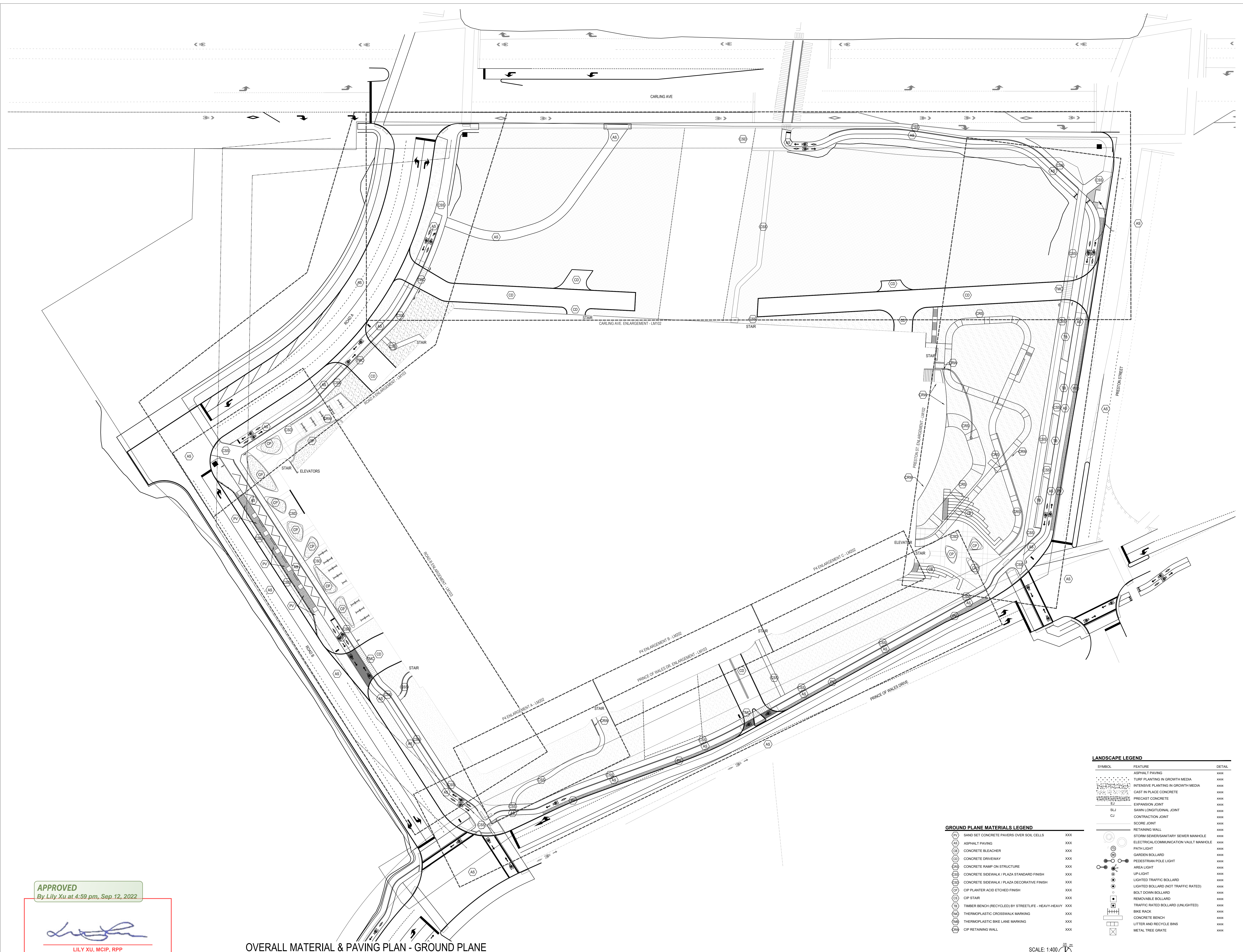


### Sheet Name OVERALL MATERIALS PLAN GROUND PLANE

Sheet Number

**LM-101**

Project Status  
Progress Submission

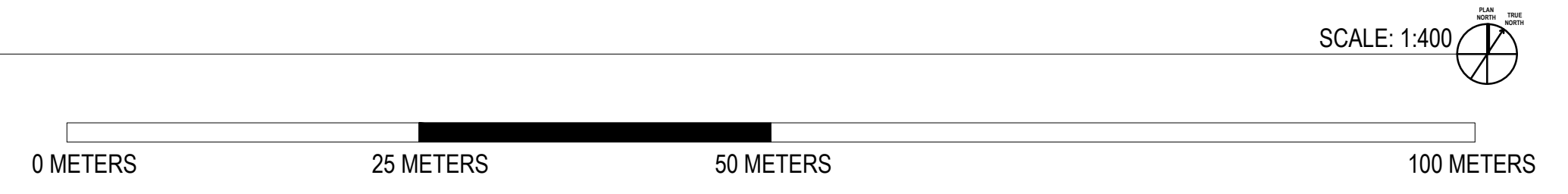


**GROUND PLANE MATERIALS LEGEND**

(P)	SAND SET CONCRETE PAVERS OVER SOIL CELLS	XXXX
(A)	ASPHALT PAVING	XXXX
(B)	CONCRETE BLEACHER	XXXX
(C)	CONCRETE DRIVEWAY	XXXX
(D)	CONCRETE RAMP ON STRUCTURE	XXXX
(E)	CONCRETE SIDEWALK / PLAZA STANDARD FINISH	XXXX
(F)	CONCRETE SIDEWALK / PLAZA DECORATIVE FINISH	XXXX
(G)	CIP PLANTER ACID ETCHED FINISH	XXXX
(H)	CIP STAIR	XXXX
(I)	TIMBER BENCH (RECYCLED) BY STREETLIFE - HEAVY-HEAVY	XXXX
(J)	THERMOPLASTIC CROSSWALK MARKING	XXXX
(K)	THERMOPLASTIC BIKE LANE MARKING	XXXX
(L)	CIP RETAINING WALL	XXXX

**LANDSCAPE LEGEND**

(S)	ASPHALT PAVING	XXXX
(T)	TURF PLANTING IN GROWTH MEDIA	XXXX
(U)	INTENSIVE PLANTING IN GROWTH MEDIA	XXXX
(V)	CAST IN PLACE CONCRETE	XXXX
(W)	PRECAST CONCRETE	XXXX
(X)	EXPANSION JOINT	XXXX
(Y)	SAWN LONGITUDINAL JOINT	XXXX
(Z)	CONTRACTION JOINT	XXXX
(AA)	SCORE JOINT	XXXX
(AB)	RETAINING WALL	XXXX
(AC)	STORM SEWERS/SANITARY SEWER MANHOLE	XXXX
(AD)	ELECTRICAL/COMMUNICATION VAULT MANHOLE	XXXX
(AE)	PATH LIGHT	XXXX
(AF)	GARDEN BOLLARD	XXXX
(AG)	PEDESTRIAN POLE LIGHT	XXXX
(AH)	AREA LIGHT	XXXX
(AI)	UP LIGHT	XXXX
(AJ)	LIGHTED TRAFFIC BOLLARD	XXXX
(AK)	LIGHTED BOLLARD (NOT TRAFFIC RATED)	XXXX
(AL)	BOLT DOWN BOLLARD	XXXX
(AM)	REMOVABLE BOLLARD	XXXX
(AN)	TRAFFIC RATED BOLLARD (UNLIGHTED)	XXXX
(AO)	BIKE RACK	XXXX
(AP)	CONCRETE BENCH	XXXX
(AQ)	LITTER AND RECYCLE BINS	XXXX
(AR)	METAL TREE GRATE	XXXX



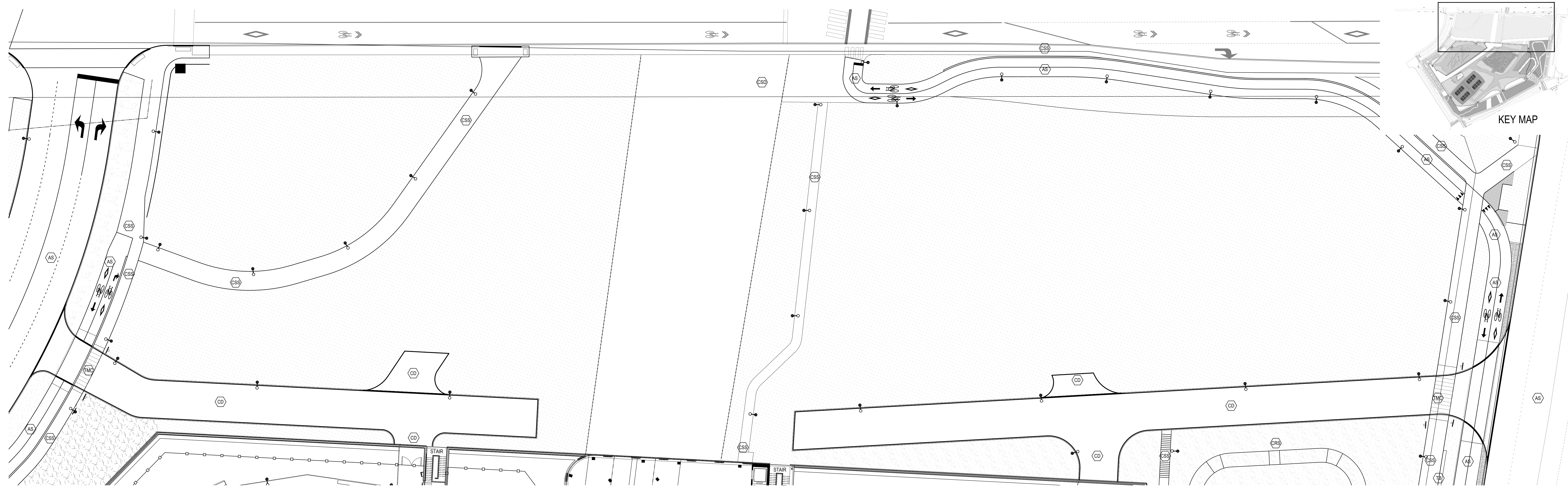
**APPROVED**  
By Lily Xu at 4:59 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

OVERALL MATERIAL & PAVING PLAN - GROUND PLANE

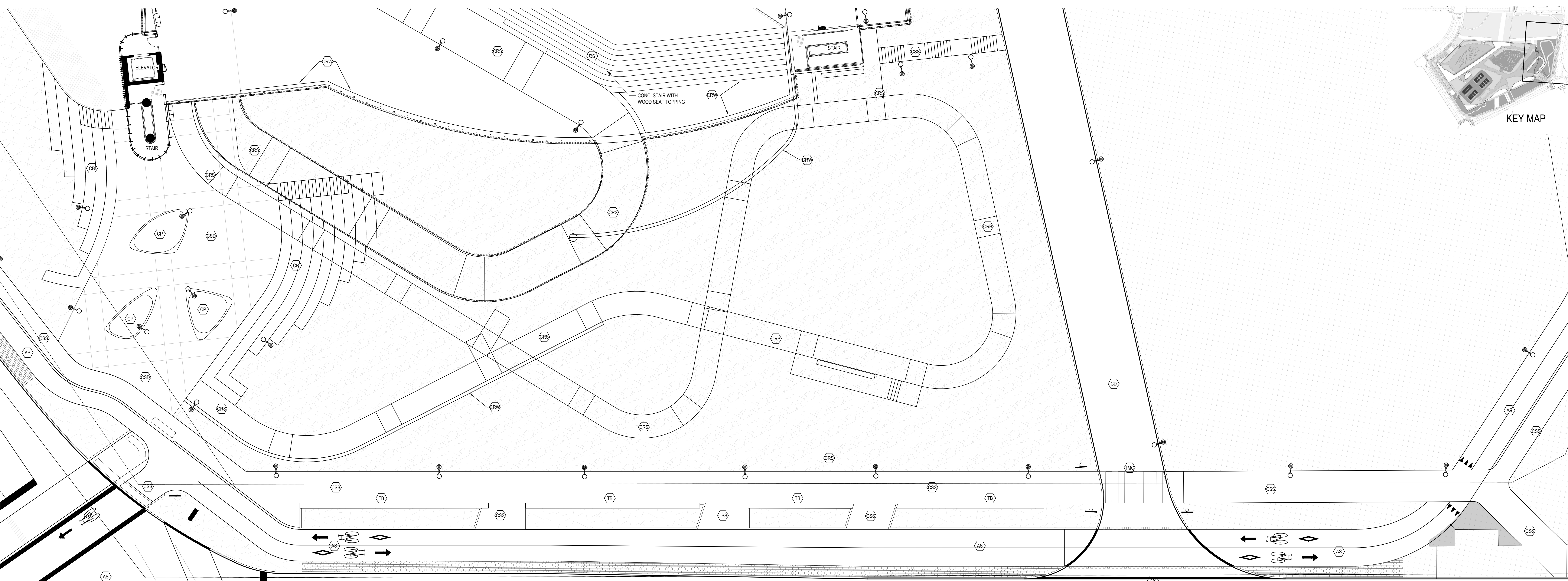
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CARLING FRONTAGE LANDSCAPE ENLARGEMENT

SCALE: 1:250



PRESTON LANDSCAPE ENLARGEMENT

SCALE: 1:150

The Ottawa Hospital  
New Civic Development  
Parking Garage

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520 Preston Street,  
Ottawa, ON, K1Y 4E9



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Sheet Reviewer: Author

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Project Number 10305722  
Original Issue September 2021



Streetscape  
Materials  
Enlargements

Sheet Number  
**LM-102**

Project Status  
Progress Submission

**APPROVED**  
By Lily Xu at 5:00 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**GROUND PLANE MATERIALS LEGEND**

PI	SAND SET CONCRETE PAVERS OVER SOIL CELLS	XXXX
AS	ASPHALT PAVING	XXXX
CL	CONCRETE BLEACHER	XXXX
CD	CONCRETE DRIVEWAY	XXXX
CR	CONCRETE RAMP ON STRUCTURE	XXXX
CS	CONCRETE SIDEWALK / PLAZA STANDARD FINISH	XXXX
CS*	CONCRETE SIDEWALK / PLAZA DECORATIVE FINISH	XXXX
CI	CIP PLANTER ACID ETCHED FINISH	XXXX
CI*	CIP STAIR	XXXX
TI	TIMBER BENCH (RECYCLED) BY STREETLIFE - HEAVY-HEAVY	XXXX
TM	THERMOPLASTIC CROSSWALK MARKING	XXXX
TR	THERMOPLASTIC BIKE LANE MARKING	XXXX
RW	CIP RETAINING WALL	XXXX

**LANDSCAPE LEGEND**

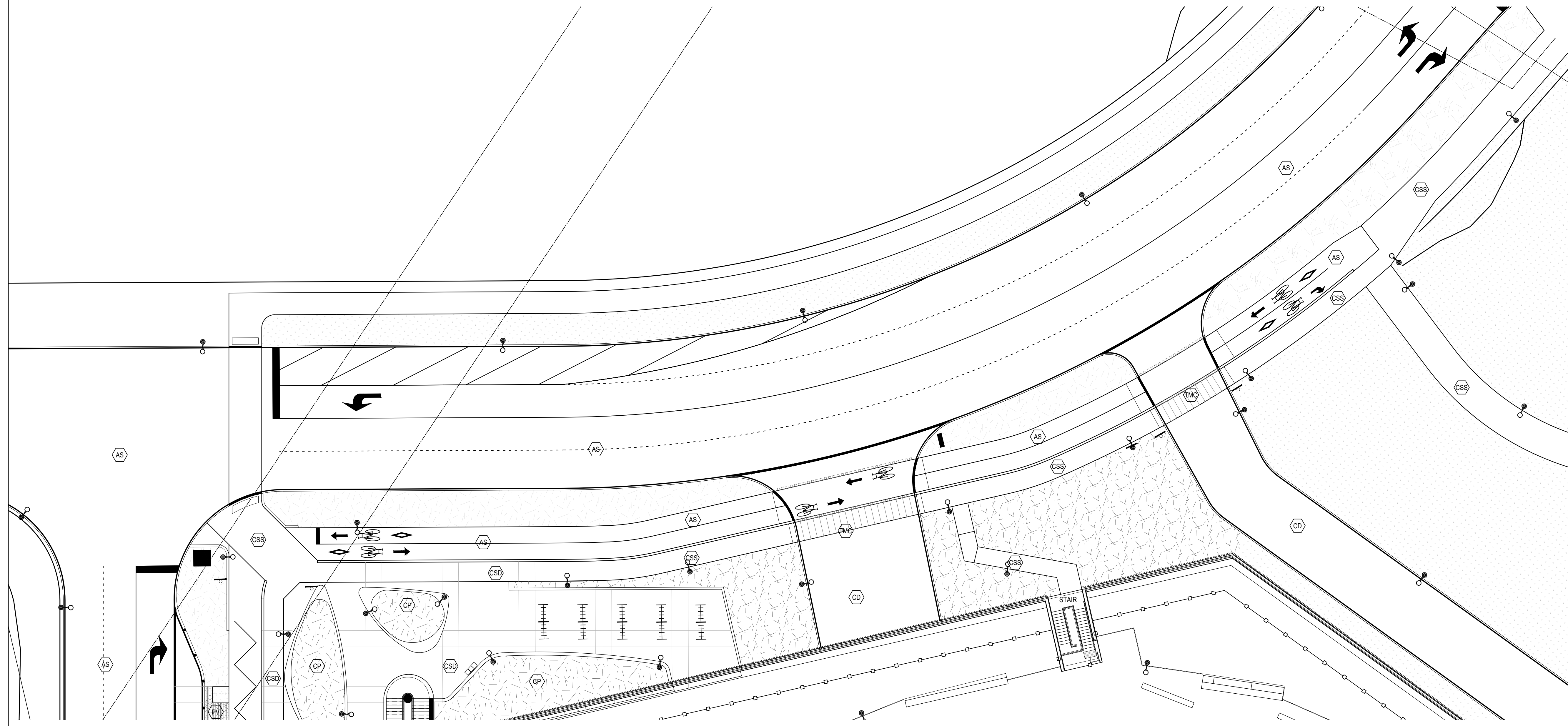
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[Symbol]	TURF PLANTING IN GROWTH MEDIA	XXXX
[Symbol]	INTENSIVE PLANTING IN GROWTH MEDIA	XXXX
[Symbol]	CAST IN PLACE CONCRETE	XXXX
[Symbol]	EXPANSION JOINT	XXXX
[Symbol]	SAW LONGITUDINAL JOINT	XXXX
[Symbol]	CONTRACTOR JOINT	XXXX
[Symbol]	SCORE JOINT	XXXX
[Symbol]	RETAINING WALL	XXXX
[Symbol]	STORM SEWERS/SANITARY SEWER MANHOLE	XXXX
[Symbol]	ELECTRICAL/COMMUNICATION VAULT MANHOLE	XXXX
[Symbol]	PATH LIGHT	XXXX

[Symbol]	GARDEN BOLLARD	XXXX
[Symbol]	PEDESTRIAN POLE LIGHT	XXXX
[Symbol]	AREA LIGHT	XXXX
[Symbol]	UP-LIGHT	XXXX
[Symbol]	LIGHTED TRAFFIC BOLLARD	XXXX
[Symbol]	LIGHTED BOLLARD (NOT TRAFFIC RATED)	XXXX
[Symbol]	LITTER AND RECYCLE BINS	XXXX
[Symbol]	CAFE SEATING TABLE & CHAIR	XXXX
[Symbol]	VESTRE LOUNGE SEATING	XXXX



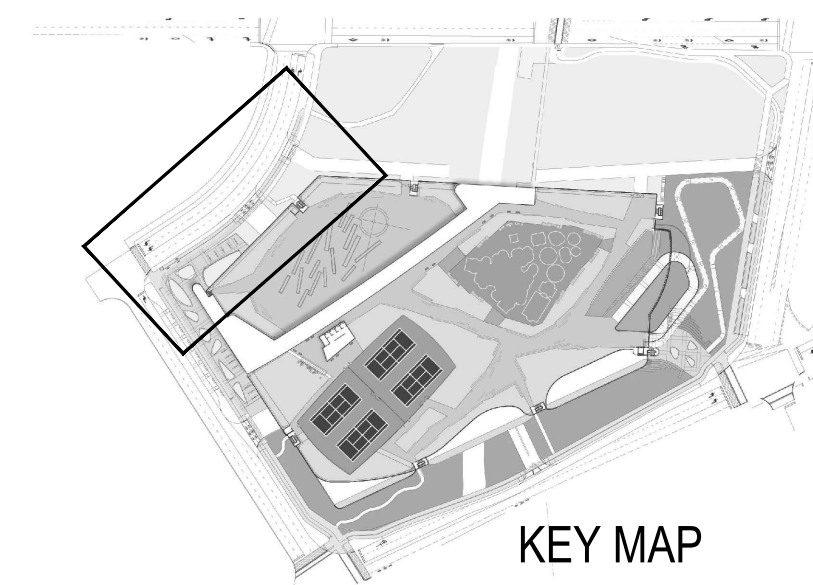
**APPROVED**  
By Lily Xu at 5:00 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



ROAD A LANDSCAPE ENLARGEMENT

SCALE: 1:200



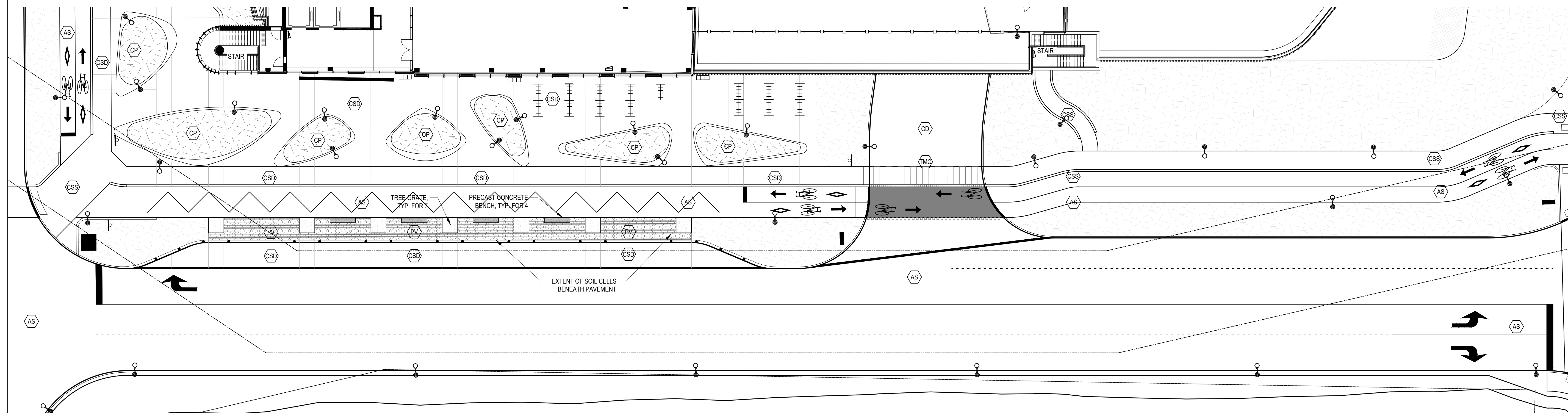
KEY MAP

**GROUND PLANE MATERIALS LEGEND**

(PV)	SAND SET CONCRETE PAVERS OVER SOIL CELLS	XXXX
(AS)	ASPHALT PAVING	XXX
(CB)	CONCRETE BLEACHER	XXXX
(CD)	CONCRETE DRIVEWAY	XXXX
(CE)	CONCRETE RAMP ON STRUCTURE	XXXX
(CF)	CONCRETE SIDEWALK / PLAZA STANDARD FINISH	XXXX
(CG)	CONCRETE SIDEWALK / PLAZA DECORATIVE FINISH	XXXX
(CH)	CIP PLANTER ACID ETCHED FINISH	XXXX
(CI)	CIP STAIR	XXXX
(TI)	TIMBER BENCH (RECYCLED) BY STREETLIFE - HEAVY-HEAVY	XXXX
(TM)	THERMOPLASTIC CROSSWALK MARKING	XXXX
(TL)	THERMOPLASTIC BIKE LANE MARKING	XXXX
(TR)	CIP RETAINING WALL	XXXX

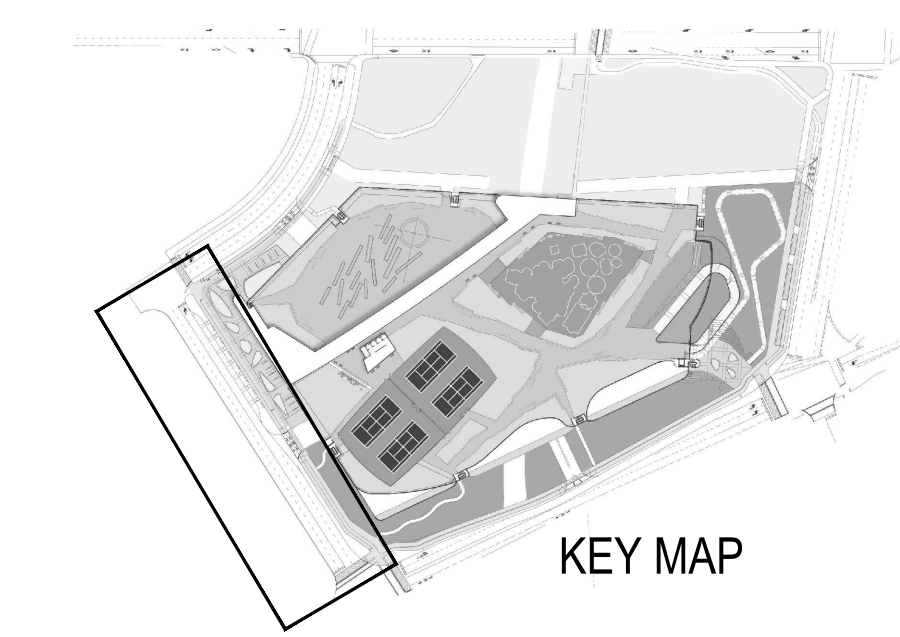
**LANDSCAPE LEGEND**

SYMBOL	FEATURE	DETAIL
(Image)	PLANTSPACE SOFT RUBBER SURFACE	XXXX
(Image)	TURF PLANTING IN GROWTH MEDIA	XXXX
(Image)	INTENSIVE PLANTING IN GROWTH MEDIA	XXXX
(Image)	CAST IN PLACE CONCRETE	XXXX
(Image)	EXPANSION JOINT	XXXX
(Image)	SHIM LONGITUDINAL JOINT	XXXX
(Image)	CONTRACTION JOINT	XXXX
(Image)	SCORE JOINT	XXXX
(Image)	RETAINING WALL	XXXX
(Image)	STORM SEWERSANITARY SEWER MANHOLE	XXXX
(Image)	ELECTRICAL/COMMUNICATION VAULT MANHOLE	XXXX
(Image)	RATH LIGHT	XXXX
(Image)	GARDEN BOLLARD	XXXX
(Image)	PEDESTRIAN POLE LIGHT	XXXX
(Image)	AREA LIGHT	XXXX
(Image)	UP-LIGHT	XXXX
(Image)	LIGHTED TRAFFIC BOLLARD	XXXX
(Image)	LIGHTED BOLLARD (NOT TRAFFIC RATED)	XXXX
(Image)	LITTER AND RECYCLE BINS	XXXX
(Image)	CAFE SEATING TABLE & CHAIR	XXXX
(Image)	VESTRE LOUNGE SEATING	XXXX

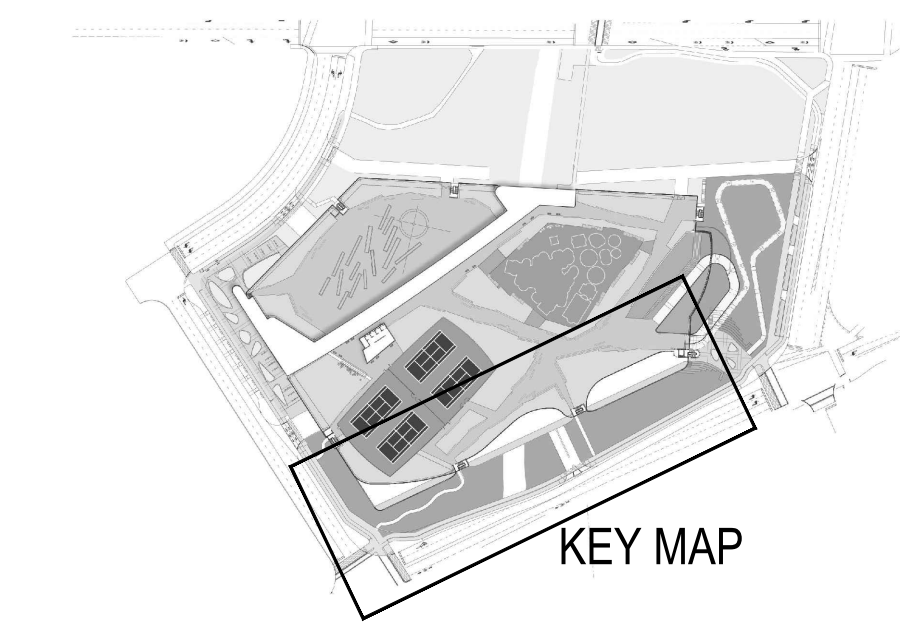


ROAD B LANDSCAPE ENLARGEMENT

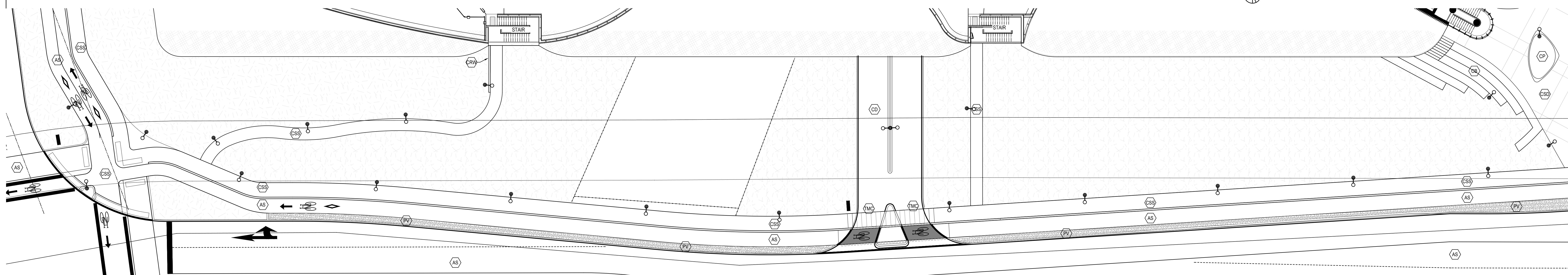
SCALE: 1:200



KEY MAP



KEY MAP



PRINCE OF WALES LANDSCAPE ENLARGEMENT

SCALE: 1:200

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



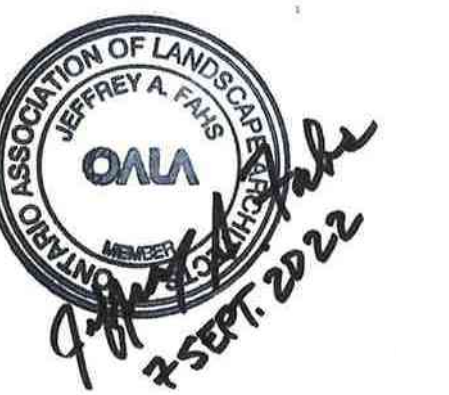
Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR NCC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TDM DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**STREETSCAPE  
MATERIALS  
ENLARGEMENTS**

Sheet Number  
**LM-103**

Project Status  
Progress Submission



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



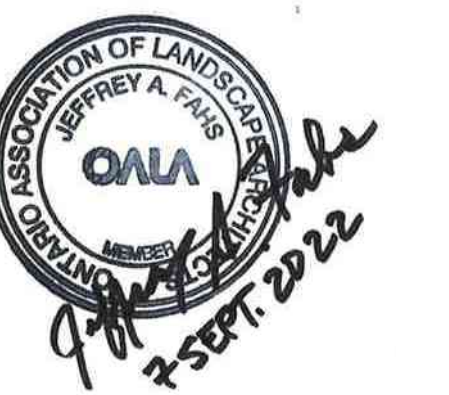
Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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06	2022-02-28	ISSUED FOR 100% TON DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

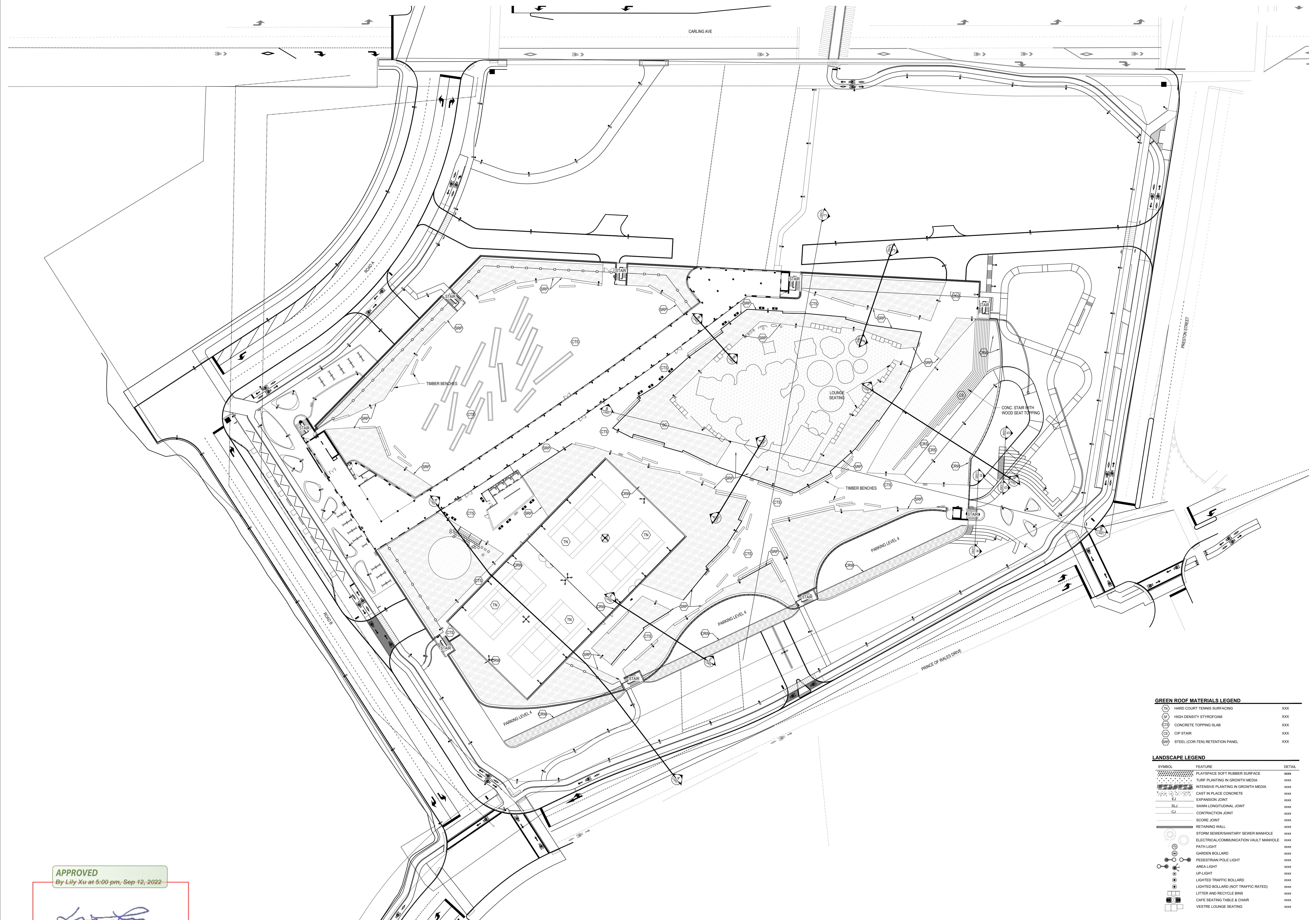
Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**OVERALL MATERIALS  
PLAN GREEN ROOF**

Sheet Number  
**LM-201**

Project Status  
Progress Submission



**GREEN ROOF MATERIALS LEGEND**

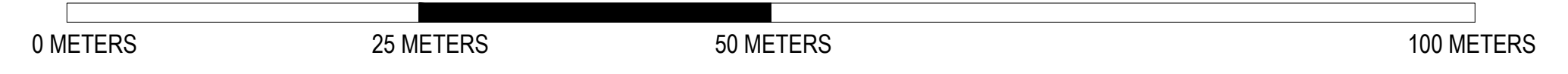
(TN)	HARD COURT TENNIS SURFACING	xxx
(HF)	HIGH DENSITY STYROFOAM	xxx
(CS)	CONCRETE TOPPING SLAB	xxx
(CS)	CIP STAIR	xxx
(SRP)	STEEL (COR-TEN) RETENTION PANEL	xxx

**LANDSCAPE LEGEND**

SYMBOL	FEATURE	DETAIL
[Pattern]	PLAYSPACE SOFT RUBBER SURFACE	xxxx
[Pattern]	TURF PLANTING IN GROWTH MEDIA	xxxx
[Pattern]	INTERED PLANTING IN GROWTH MEDIA	xxxx
[Pattern]	CAST IN PLACE CONCRETE	xxxx
[Symbol]	EXPANSION JOINT	xxxx
[Symbol]	SAWN LONGITUDINAL JOINT	xxxx
[Symbol]	CONTRACTION JOINT	xxxx
[Symbol]	SCORE JOINT	xxxx
[Symbol]	RETAINING WALL	xxxx
[Symbol]	STORM SEWER/SANITARY SEWER MANHOLE	xxxx
[Symbol]	ELECTRICAL/COMMUNICATION VAULT MANHOLE	xxxx
[Symbol]	PATH LIGHT	xxxx
[Symbol]	GARDEN BOLLARD	xxxx
[Symbol]	PEDESTRIAN POLE LIGHT	xxxx
[Symbol]	AREA LIGHT	xxxx
[Symbol]	UP LIGHT	xxxx
[Symbol]	LIGHTED TRAFFIC BOLLARD	xxxx
[Symbol]	LIGHTED BOLLARD (NOT TRAFFIC RATED)	xxxx
[Symbol]	LITTER AND RECYCLE BINS	xxxx
[Symbol]	CAFE SEATING TABLE & CHAIR	xxxx
[Symbol]	VESTRE LOUNGE SEATING	xxxx

OVERALL MATERIAL & PAVING PLAN - GREEN ROOF

SCALE: 1:400

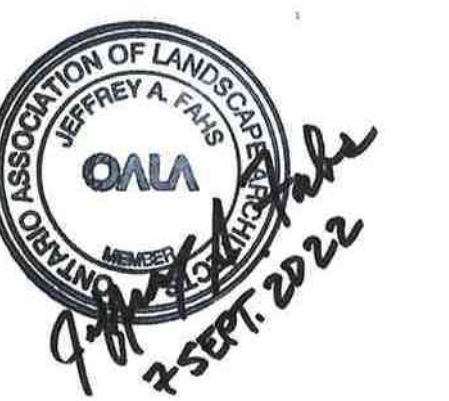


**APPROVED**  
By Lily Xu at 5:00 pm, Sep 12, 2022

LILY XU, MCI, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



MARK	DATE	DESCRIPTION
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08	2022-04-04	ISSUED FOR CM PRICING
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06	2022-02-28	ISSUED FOR 100% TDM DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION



**GROUND PLANE MATERIALS LEGEND**

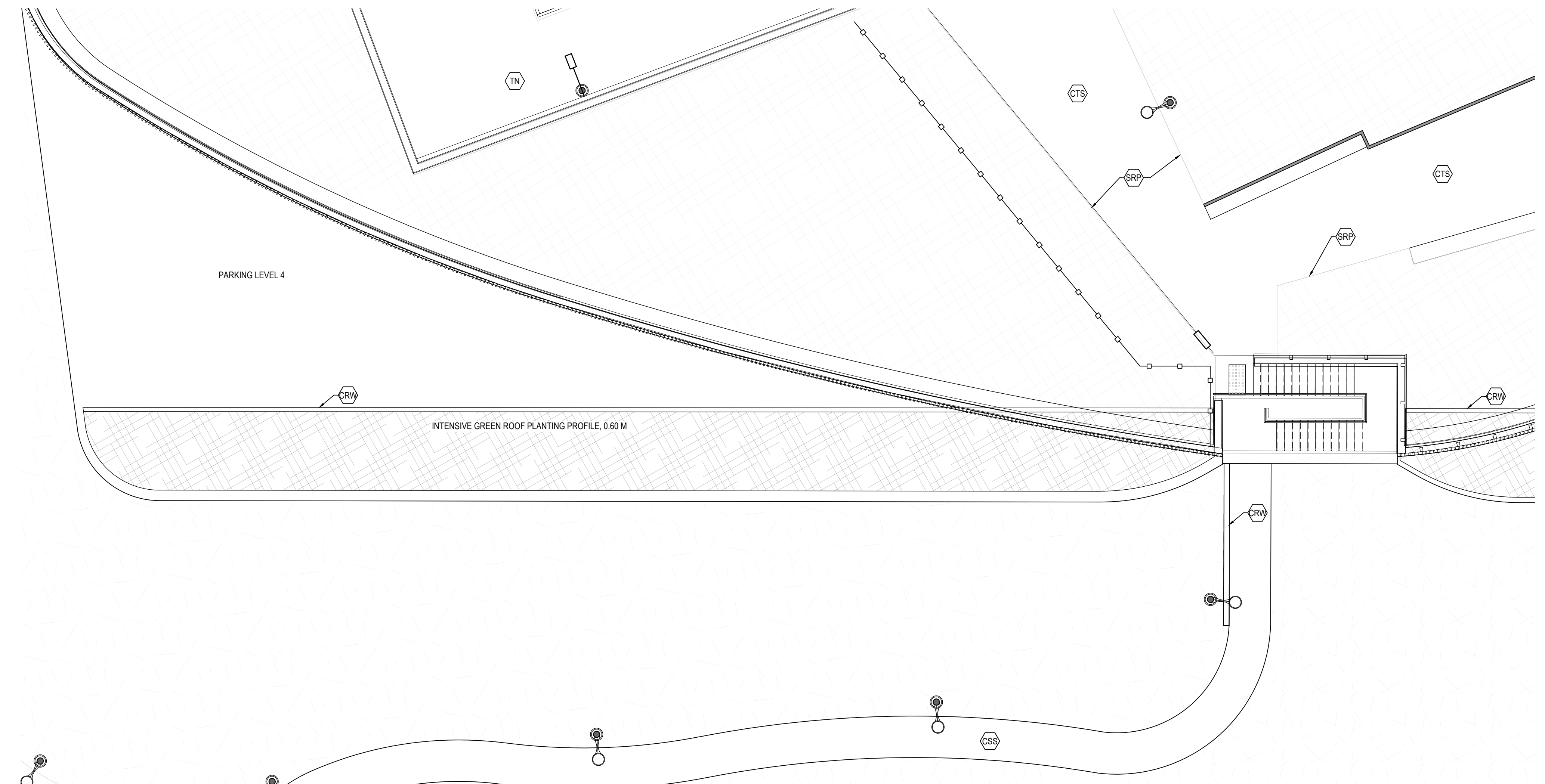
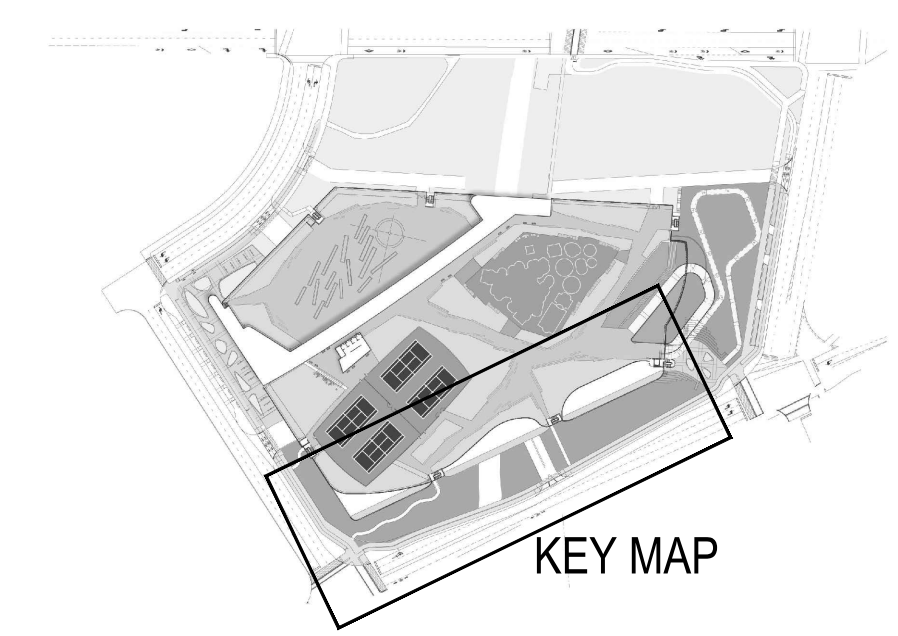
(V)	SAND SET CONCRETE PAVERS OVER SOL CELLS	XXXX
(A)	ASPHALT PAVING	XXXX
(B)	CONCRETE BLEACHER	XXXX
(C)	CONCRETE DRIVEWAY	XXXX
(D)	CONCRETE RAMP ON STRUCTURE	XXXX
(E)	CONCRETE SIDEWALK / PLAZA STANDARD FINISH	XXXX
(F)	CONCRETE SIDEWALK / PLAZA DECORATIVE FINISH	XXXX
(G)	CIP PLANTER ACID ETCHED FINISH	XXXX
(H)	CIP STAIR	XXXX
(I)	CIP STAR	XXXX
(J)	TIMBER BENCH (RECYCLED) BY STREETLIFE - HEAVY HEAVY	XXXX
(K)	THERMOPLASTIC CROSSWALK MARKING	XXXX
(L)	THERMOPLASTIC BIKE LANE MARKING	XXXX
(M)	CIP RETAINING WALL	XXXX

**GREEN ROOF MATERIALS LEGEND**

(N)	HARD COURT TENNIS SURFACING	XXXX
(O)	HIGH DENSITY STYROFOAM	XXXX
(P)	CONCRETE TOPPING SLAB	XXXX
(Q)	CIP STAIR	XXXX
(R)	STEEL (COR-TEN) RETENTION PANEL	XXXX

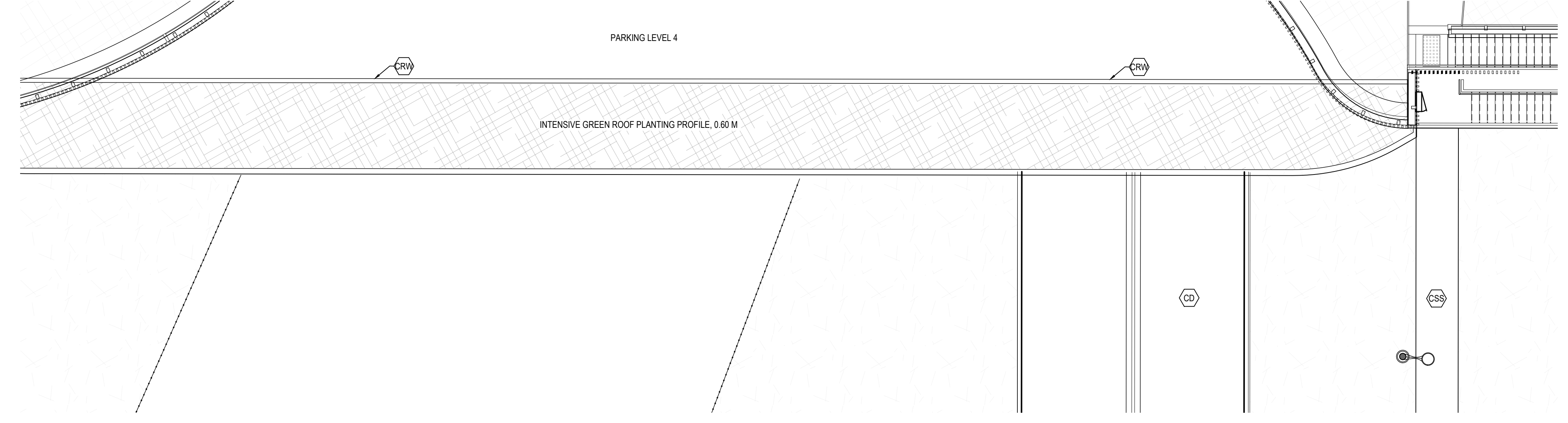
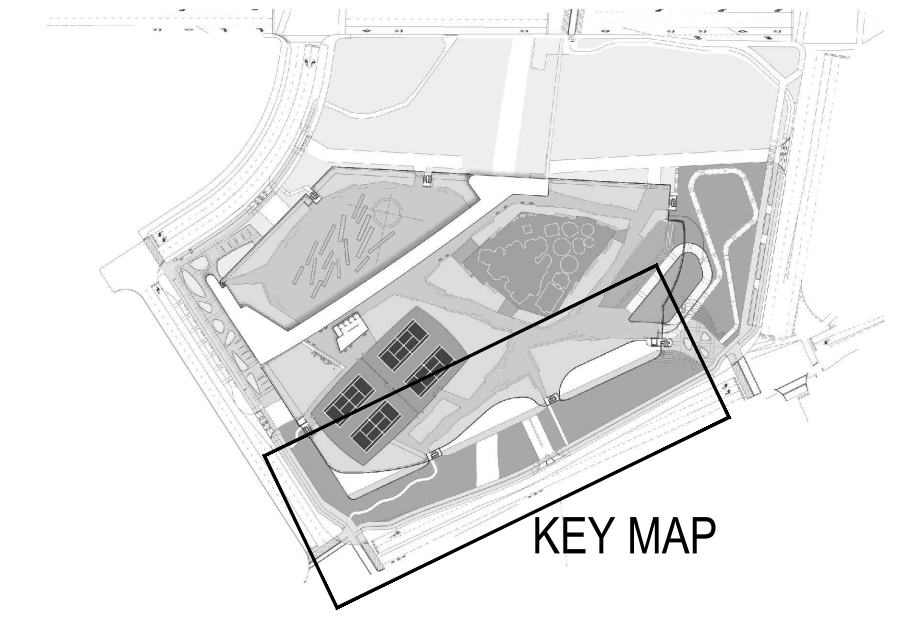
**LANDSCAPE LEGEND**

(S)	PLAYSPACE SOFT RUBBER SURFACE	XXXX
(T)	TURF PLANTING IN GROWTH MEDIA	XXXX
(U)	INTENSIVE PLANTING IN GROWTH MEDIA	XXXX
(V)	CAST IN PLACE CONCRETE	XXXX
(W)	EXPANSION JOINT	XXXX
(X)	SAWN LONGITUDINAL JOINT	XXXX
(Y)	CONTRACTION JOINT	XXXX
(Z)	SCORE JOINT	XXXX
(AA)	RETAINING WALL	XXXX
(AB)	STORM SEWERSANITARY SEWER MANHOLE	XXXX
(AC)	ELECTRICAL/COMMUNICATION VAULT MANHOLE	XXXX
(AD)	PATH LIGHT	XXXX
(AE)	GARDEN BOLLARD	XXXX
(AF)	PEDESTRIAN POLE LIGHT	XXXX
(AG)	AREA LIGHT	XXXX
(AH)	UPLIGHT	XXXX
(AI)	LIGHTED TRAFFIC BOLLARD	XXXX
(AJ)	LIGHTED BOLLARD (NOT TRAFFIC RATED)	XXXX
(AK)	LITTER AND RECYCLE BINS	XXXX
(AL)	CAFE SEATING TABLE & CHAIR	XXXX
(AM)	VESTIBLE LOUNGE SEATING	XXXX



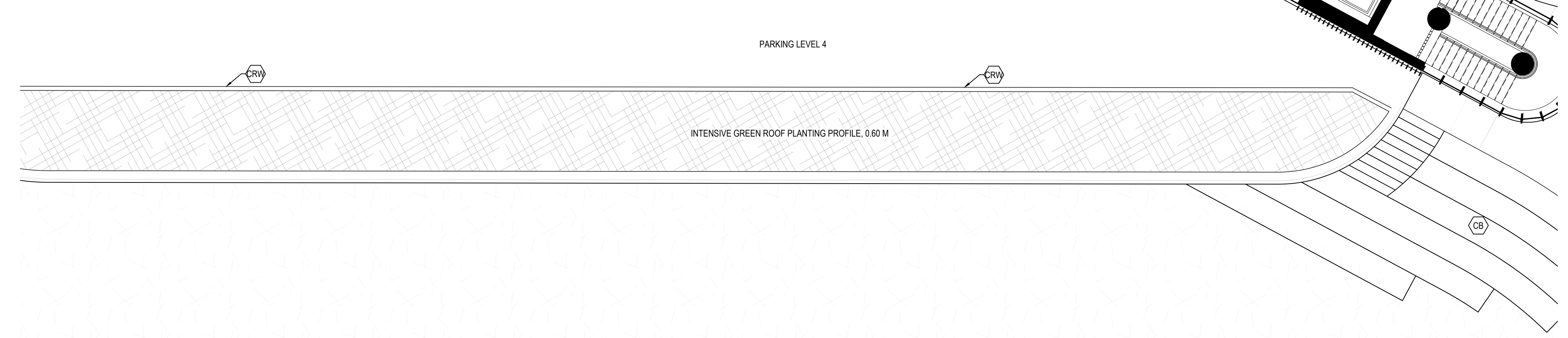
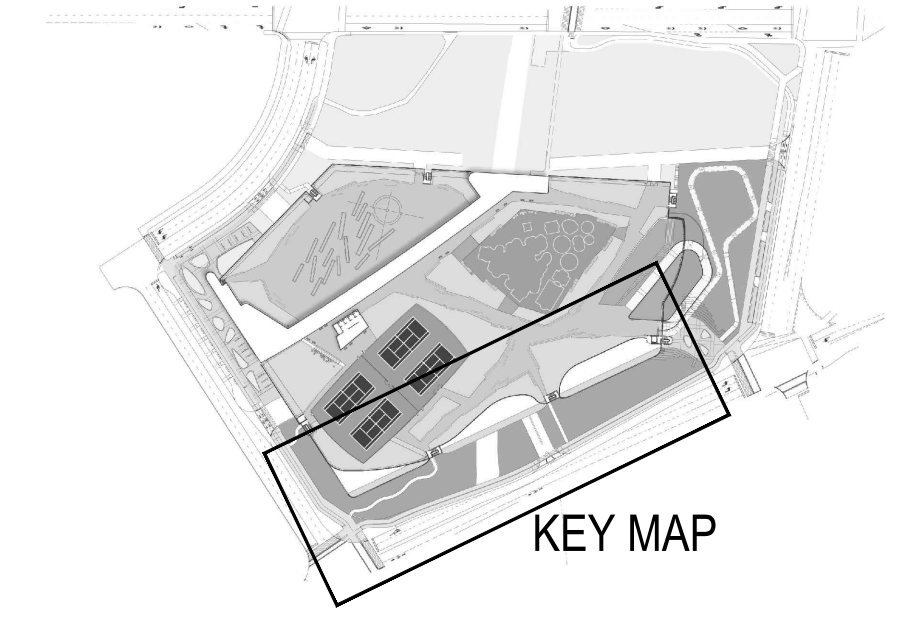
P4 LANDSCAPE ENLARGEMENT A

SCALE: 1:100



P4 LANDSCAPE ENLARGEMENT B

SCALE: 1:100



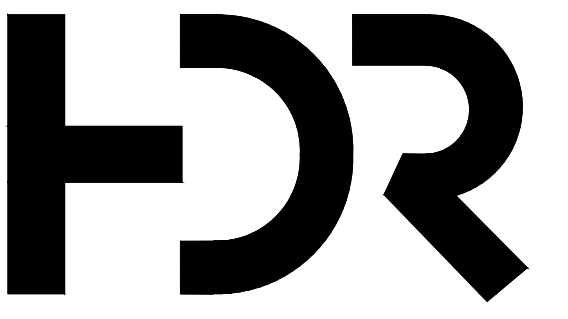
P4 LANDSCAPE ENLARGEMENT C

SCALE: 1:100

**APPROVED**  
By Lily Xu at 5:01 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA





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

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



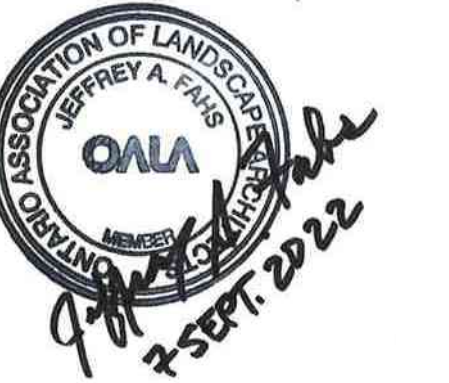
Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fahs  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Anderson  
Electrical Engineer: Smith + Anderson  
Plumbing Engineer: Smith + Anderson  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

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06	2022-02-28	ISSUED FOR 100% TDM DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

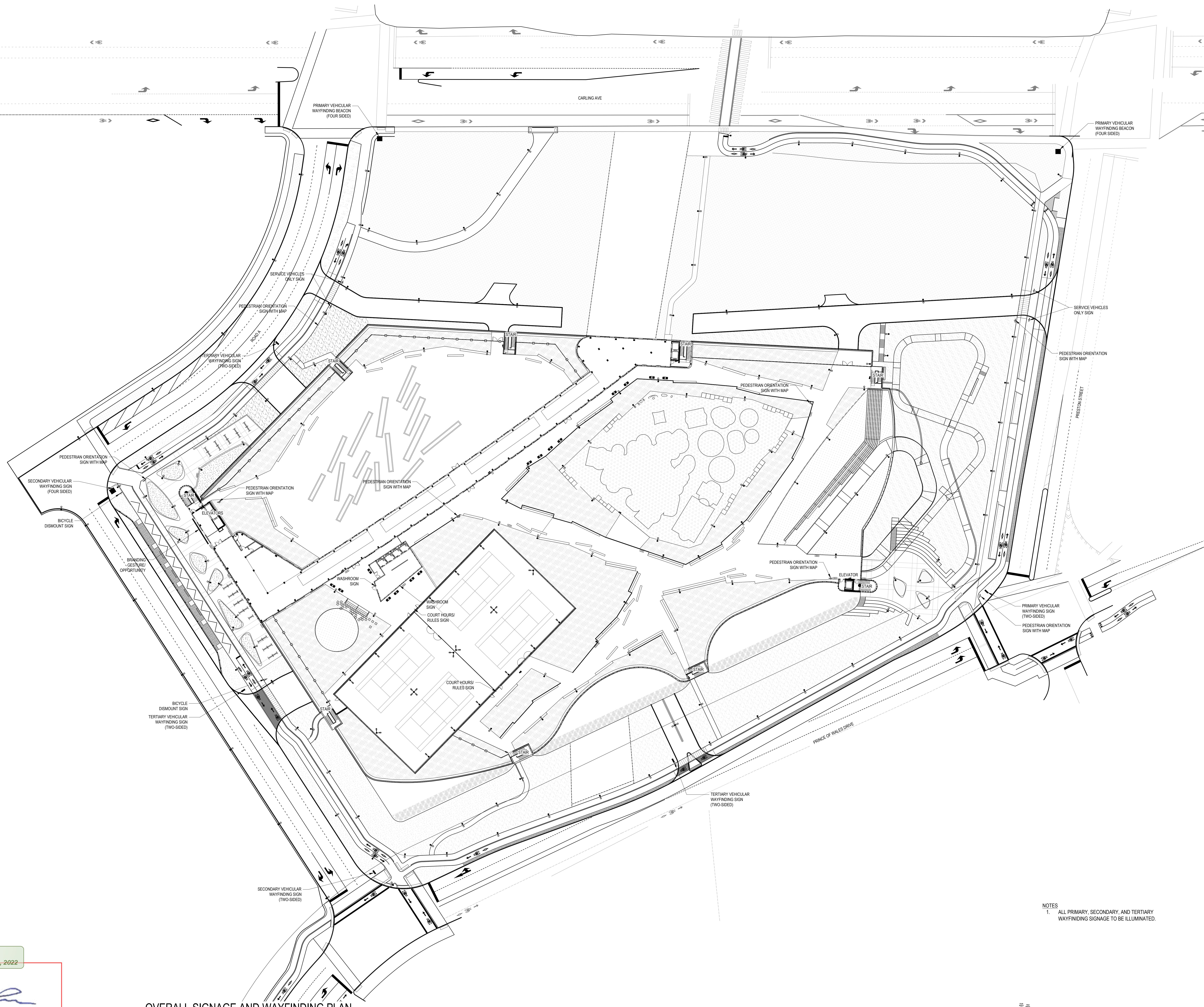
Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**GROUND AND  
GREEN ROOF  
SIGNAGE PLAN**

Sheet Number  
**LM-301**

Project Status  
Progress Submission



**OVERALL SIGNAGE AND WAYFINDING PLAN**

SCALE: 1:400

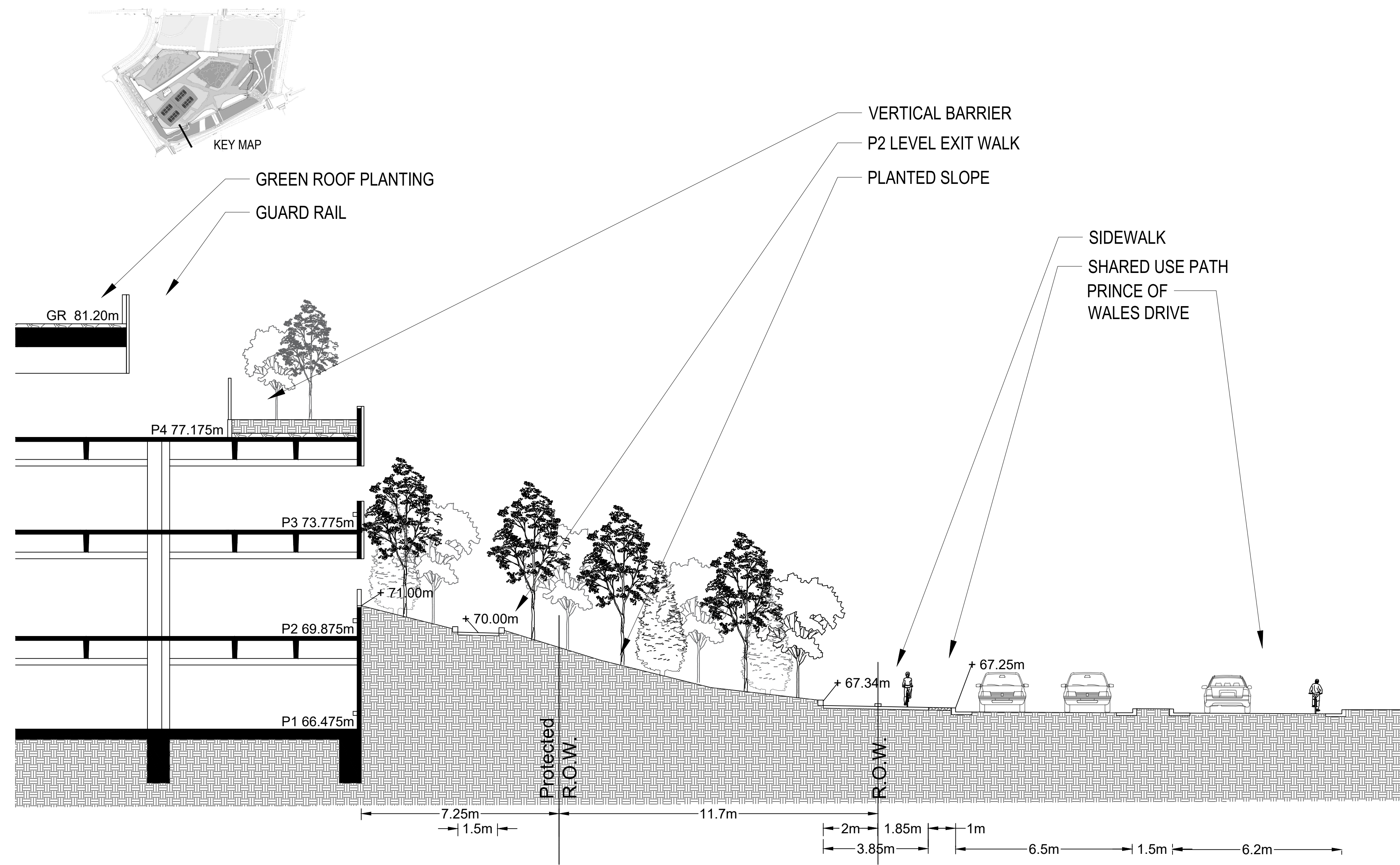


**APPROVED**  
By Lily Xu at 5:01 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

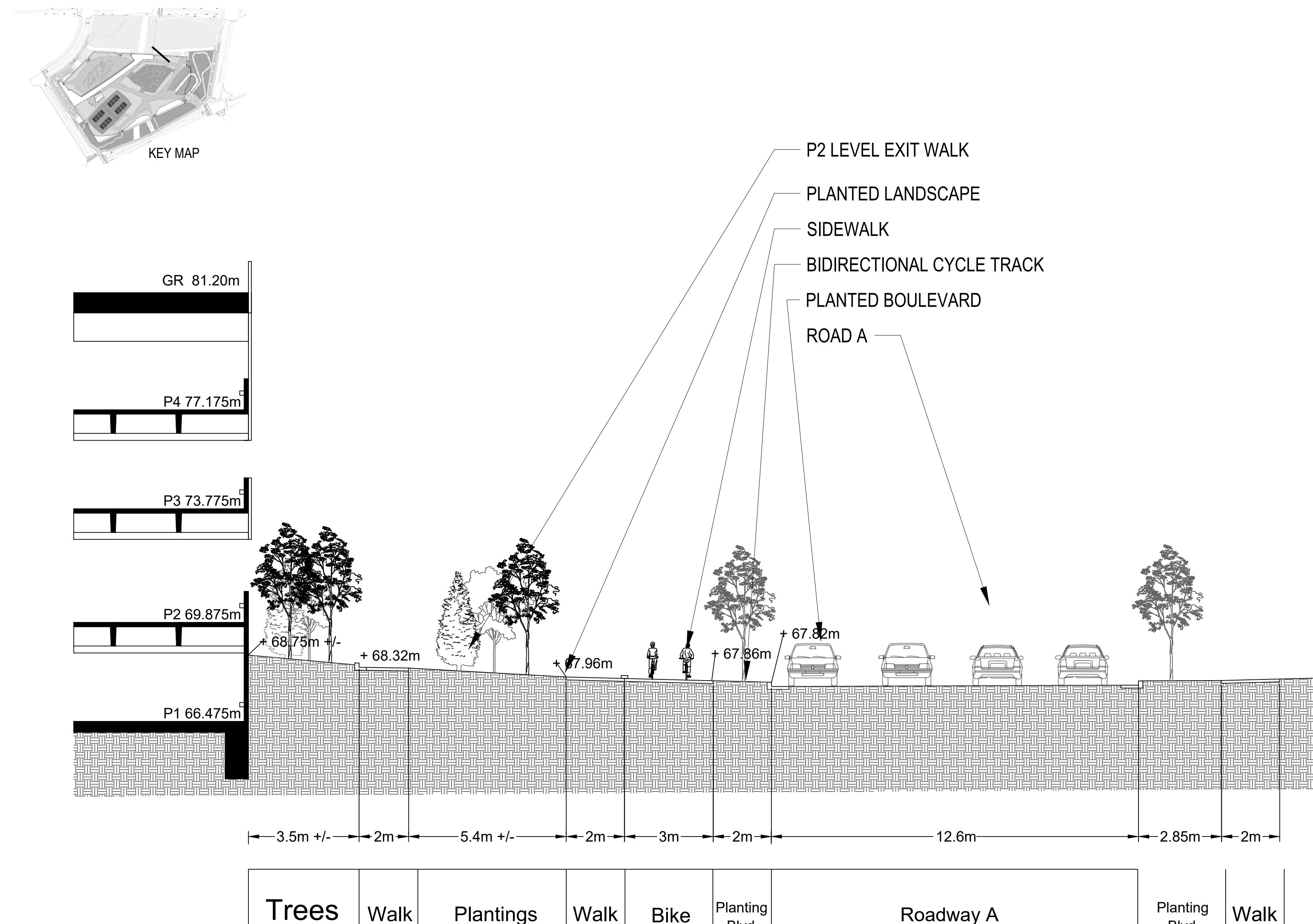
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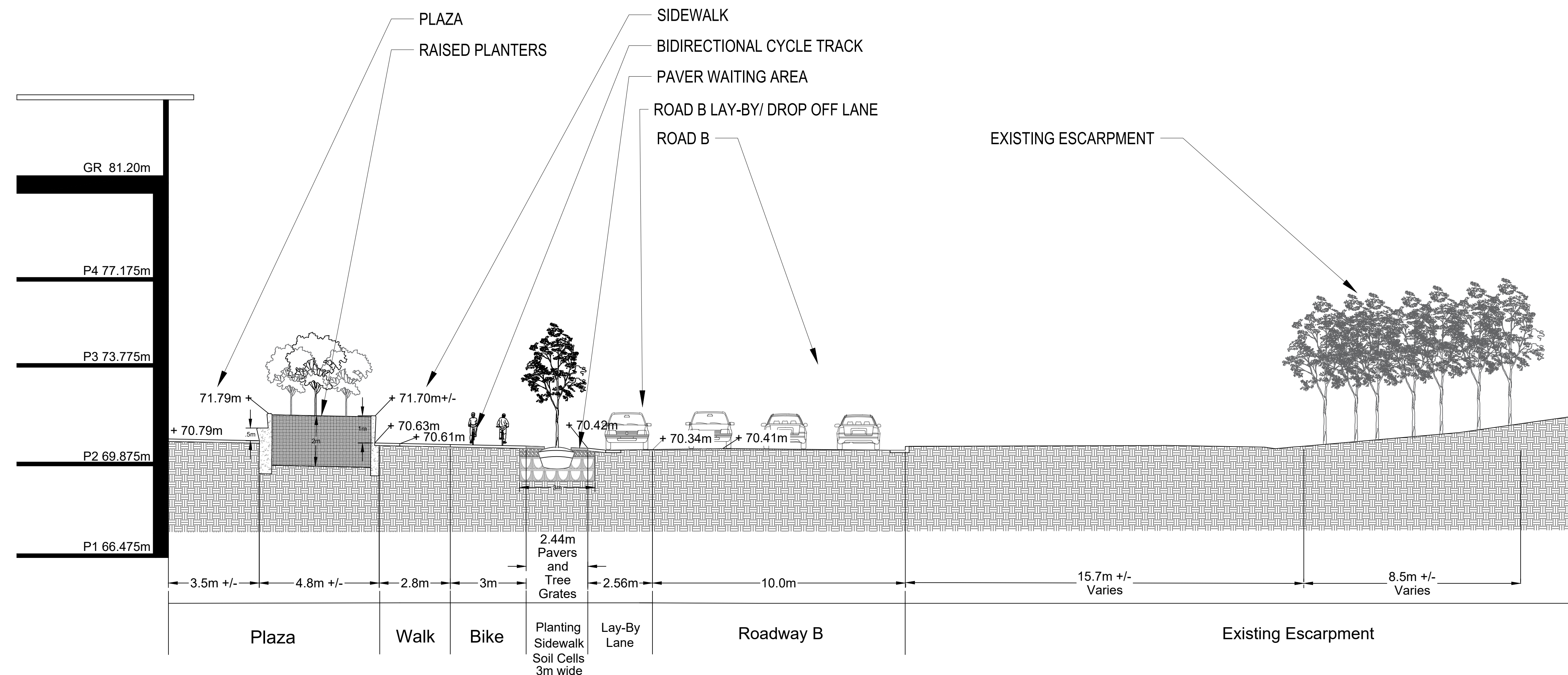
PRINCE OF WALES DRIVE LANDSCAPE SECTION

SCALE 1:100



ROAD A - LANDSCAPE SECTION

SCALE 1:100

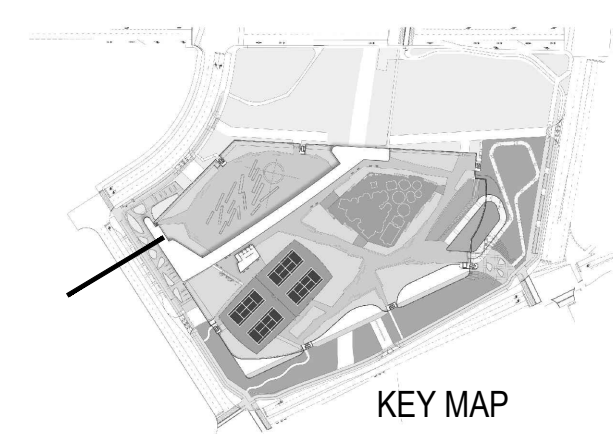


ROAD B LANDSCAPE SECTION

SCALE 1:100

**APPROVED**  
By Lily Xu at 5:02 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery-Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
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06	2022-02-28	ISSUED FOR 100% TOH DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

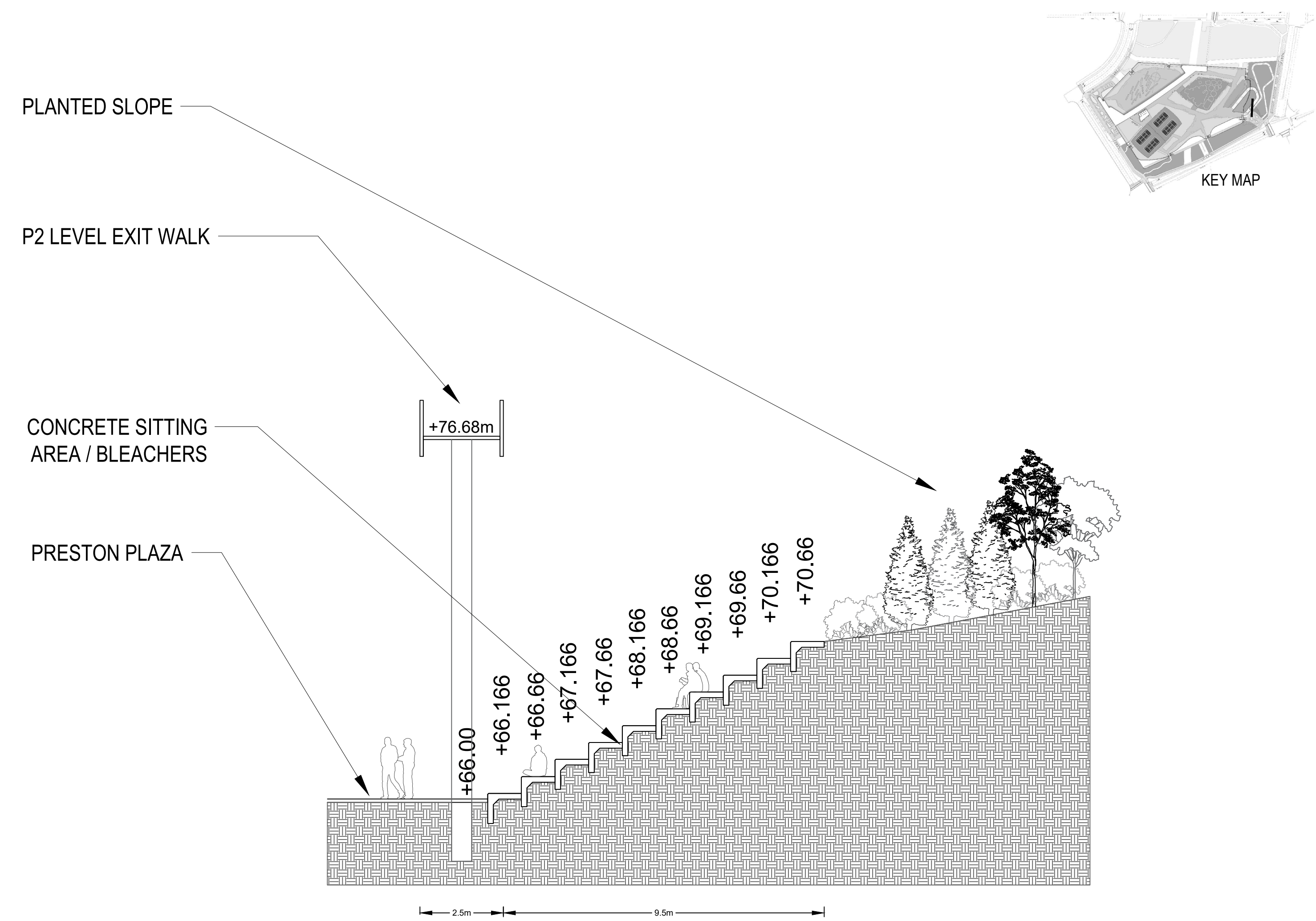
Project Number: 10305722  
Original Issue: September 2021



Sheet Name: STREET SECTIONS

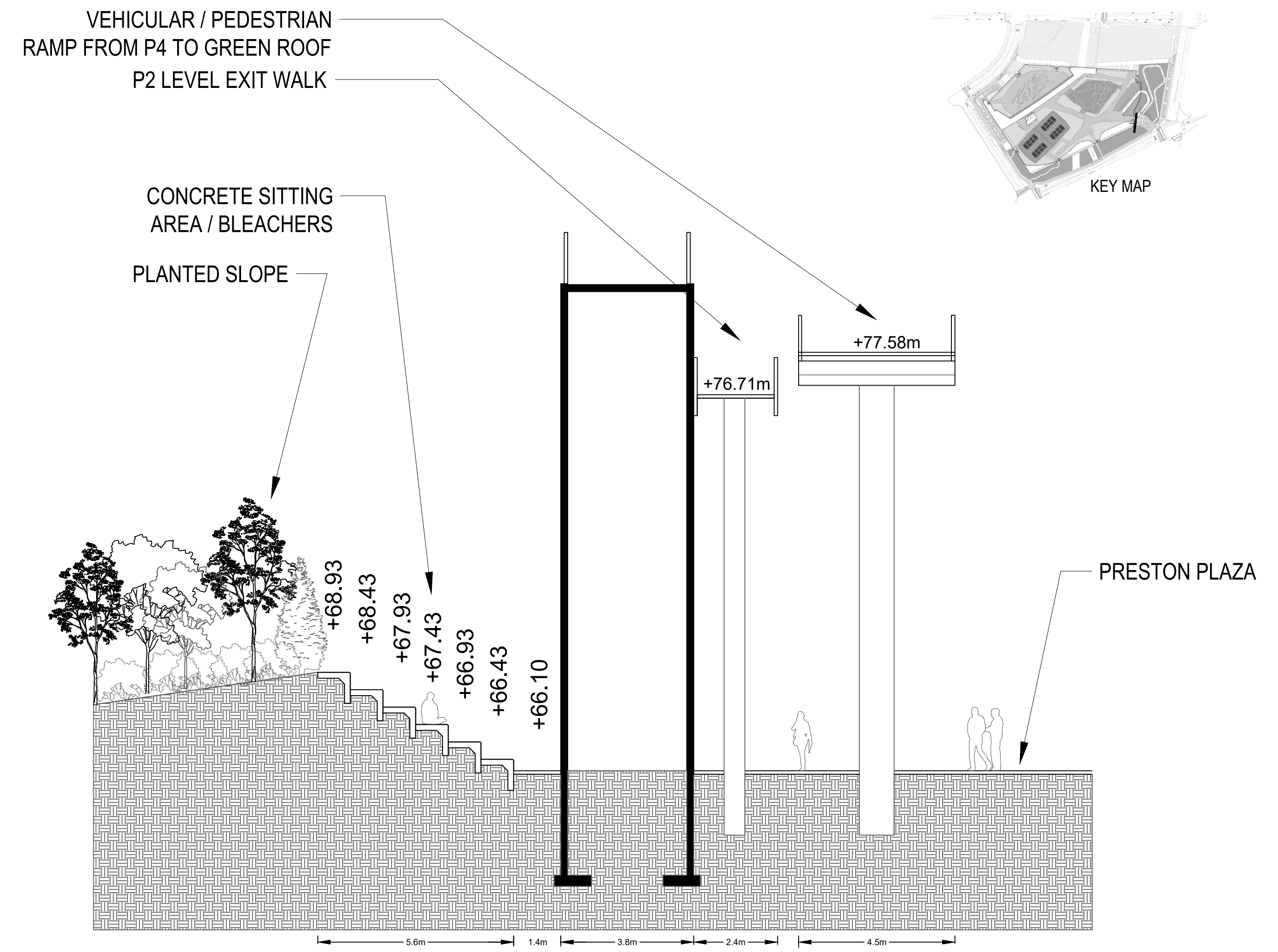
Sheet Number: **LS-301**  
Project Status: Progress Submission





PRESTON PLAZA LANDSCAPE SECTION

SCALE 1:100

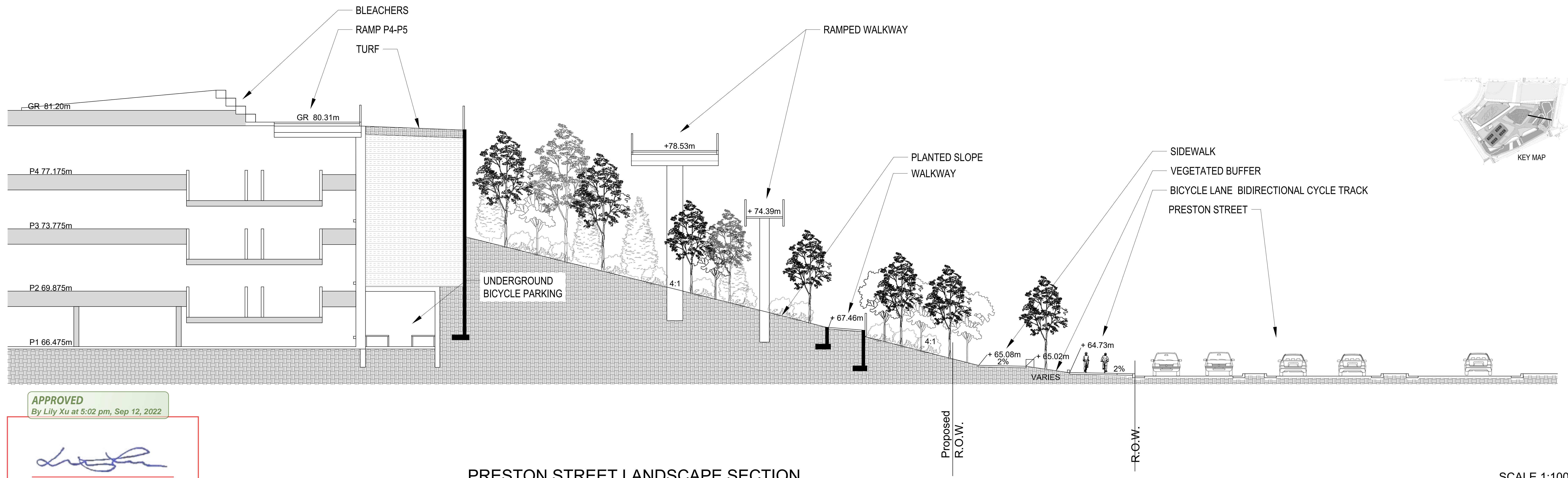


PRESTON PLAZA LANDSCAPE SECTION

SCALE 1:100

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



PRESTON STREET LANDSCAPE SECTION

SCALE 1:100

APPROVED  
By Lily Xu at 5:02 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TOH DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number: 10305722  
Original Issue: September 2021

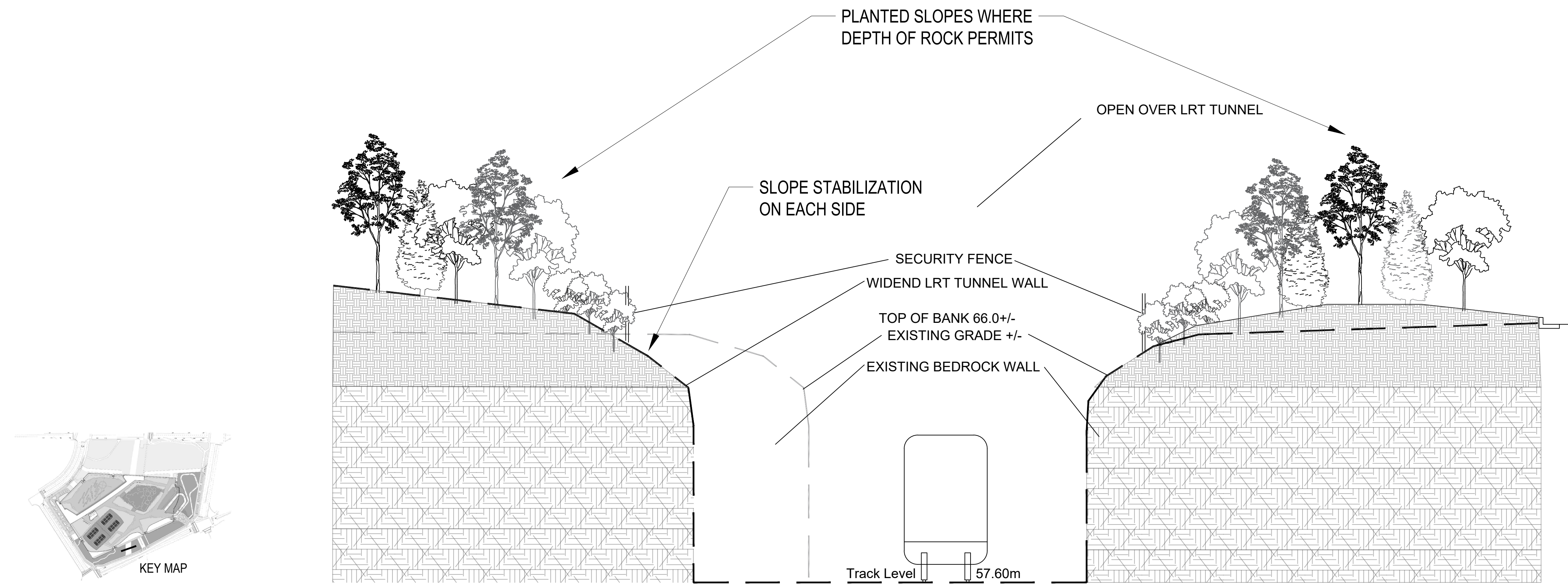


Sheet Name: STREET SECTIONS

Sheet Number: LS-302

Project Status: Progress Submission



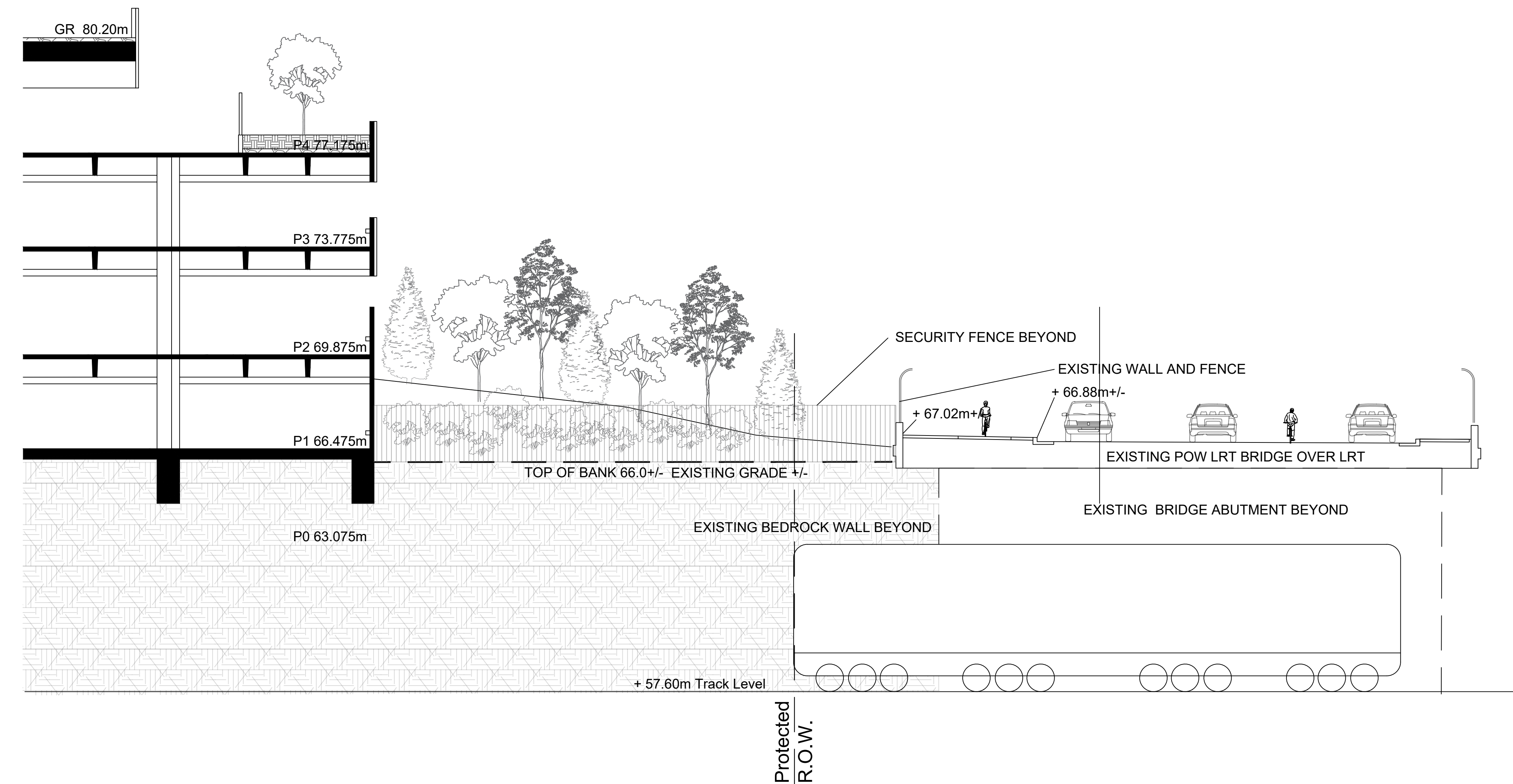


LRT SECTION AT PRINCE OF WALES - LANDSCAPE SECTION

SCALE 1:100

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



PRINCE OF WALES DRIVE - LRT LANDSCAPE SECTION

SCALE 1:100

Project Manager	Robert Malloy
Project Designer	Jason Emery Giesen
Project Architect	Project Architect
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

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07	2022-02-28	ISSUED FOR SPC RESUBMISSION
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05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC RESUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number 10305722  
Original Issue September 2021



Sheet Name  
STREET SECTIONS

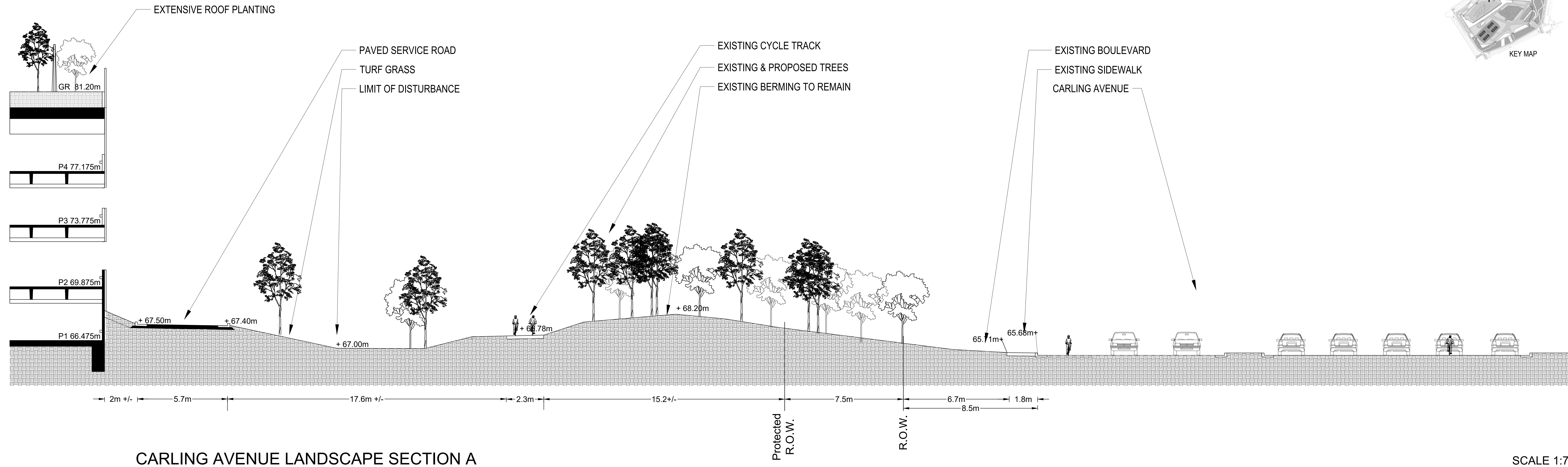
Sheet Number  
**LS-303**

Project Status  
Progress Submission

APPROVED  
By Lily Xu at 5:02 pm, Sep 12, 2022

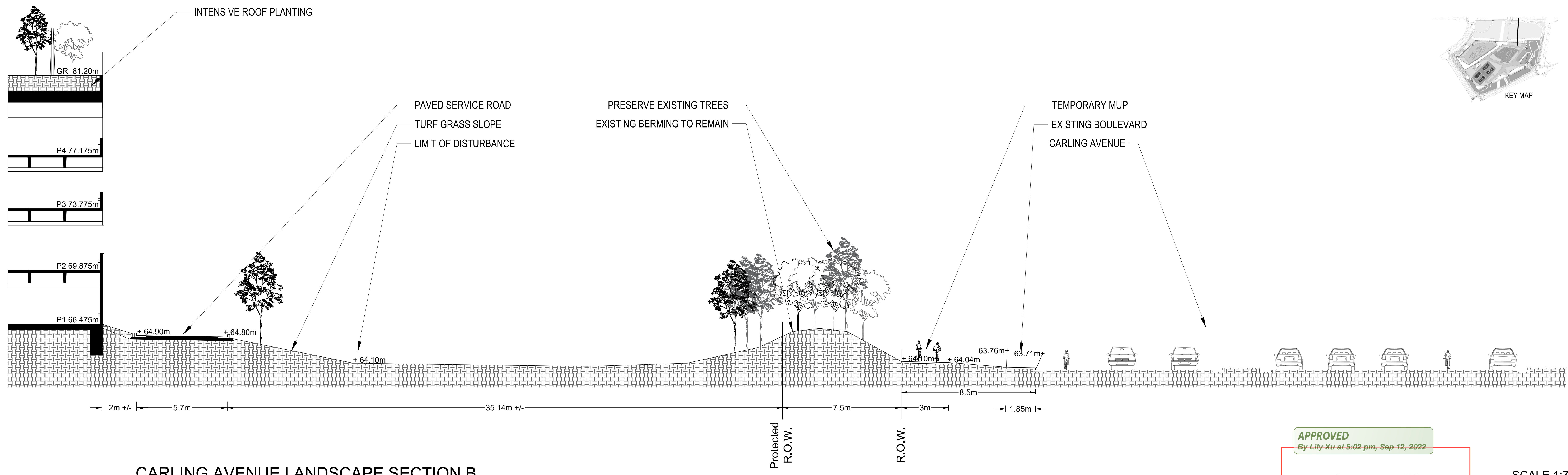
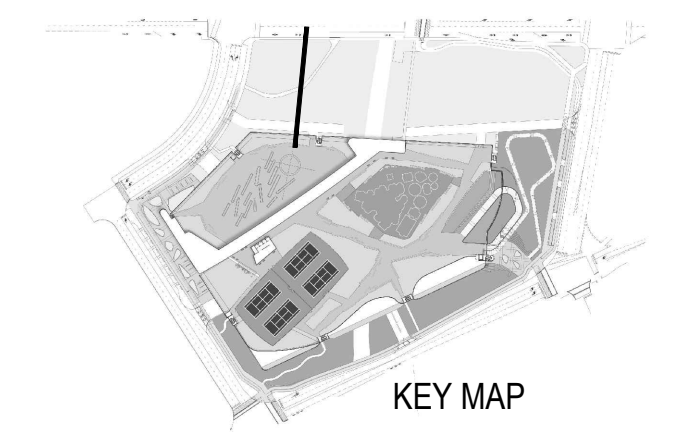
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA





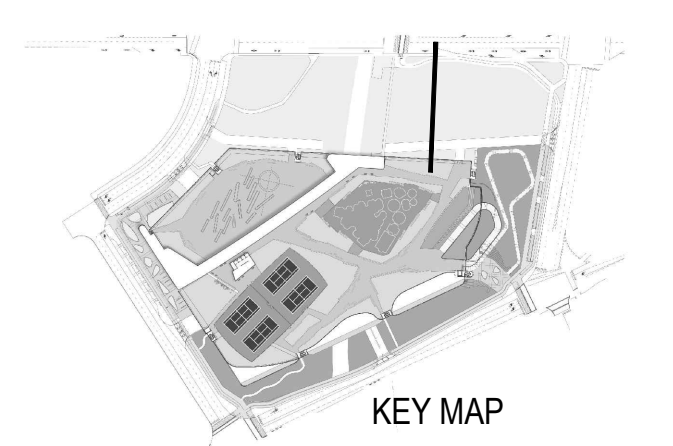
CARLING AVENUE LANDSCAPE SECTION A

SCALE 1:75



CARLING AVENUE LANDSCAPE SECTION B

SCALE 1:75



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer	Author
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MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
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08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TOH DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number	10305722
Original Issue	September 2021



**APPROVED**  
By Lily Xu at 5:02 pm, Sep-12, 2022

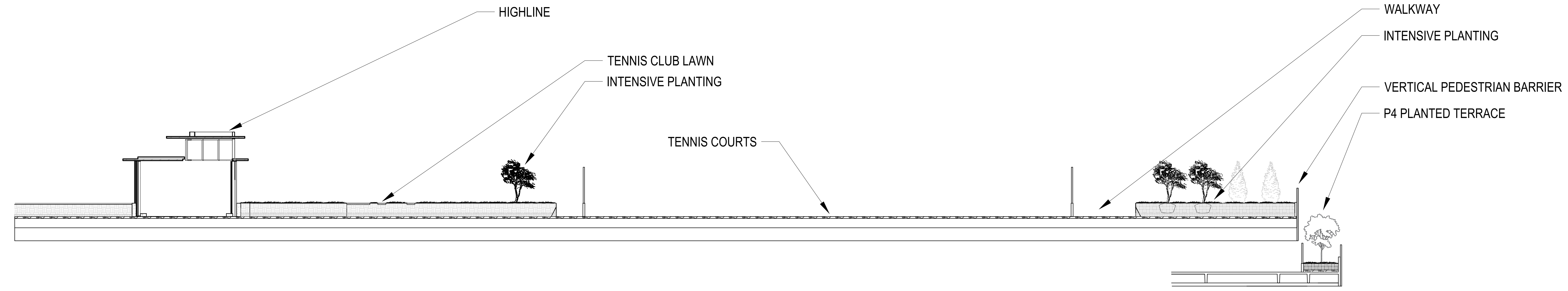
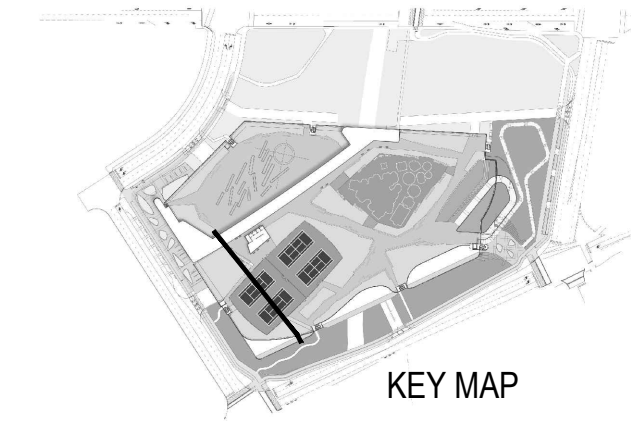
LILY XU, M.C.I.P., R.P.P.  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

Sheet Name  
STREET SECTIONS

Sheet Number  
**LS-304**

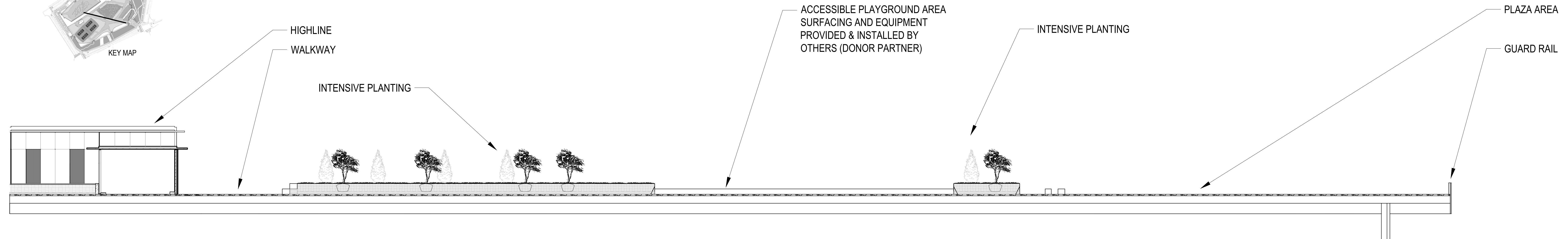
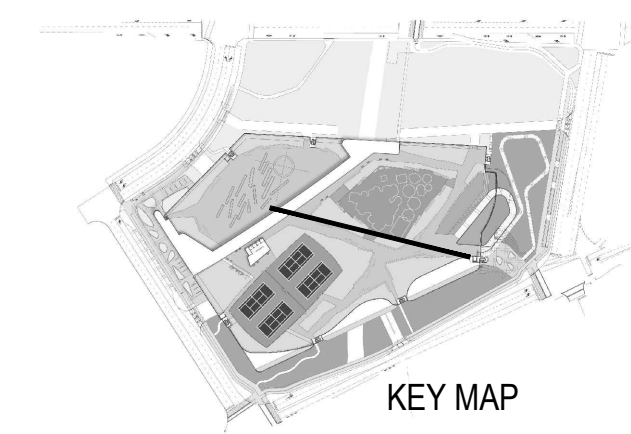
Project Status  
Progress Submission





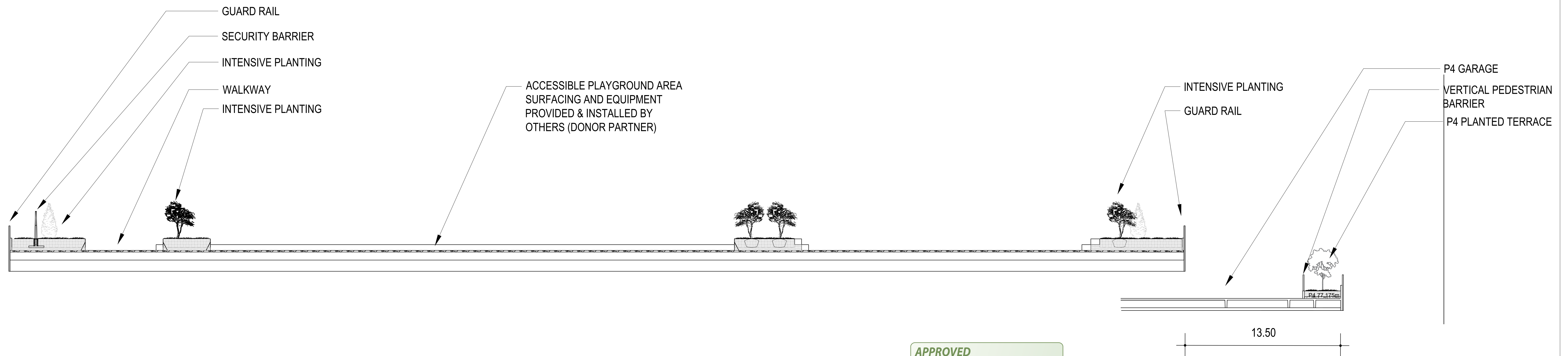
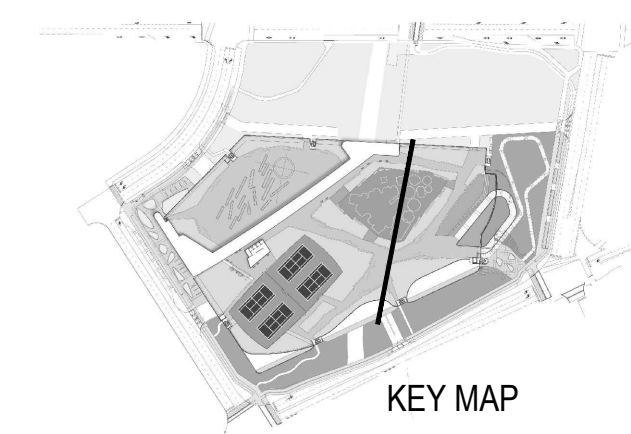
ROOF LANDSCAPE SECTION A

SCALE 1:150



ROOF LANDSCAPE SECTION B

SCALE 1:150



ROOF LANDSCAPE SECTION C

SCALE 1:150

APPROVED  
By Lily Xu at 5:03 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscapist	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
OVERALL ROOF SECTIONS

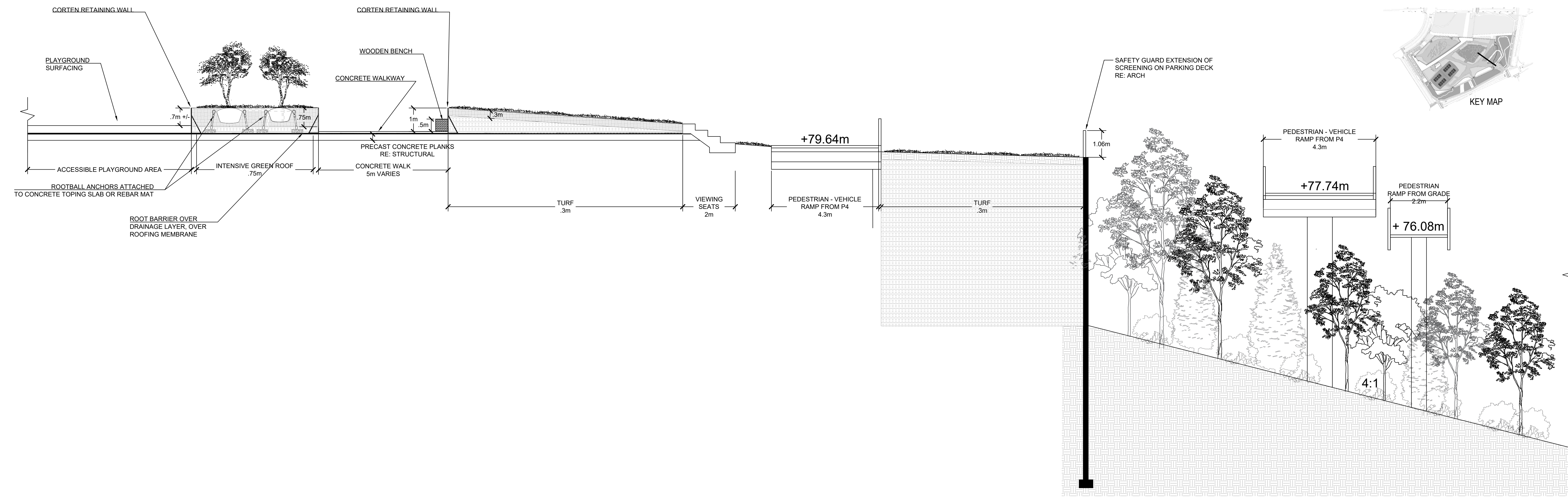
Sheet Number  
LS-401

Project Status  
Progress Submission



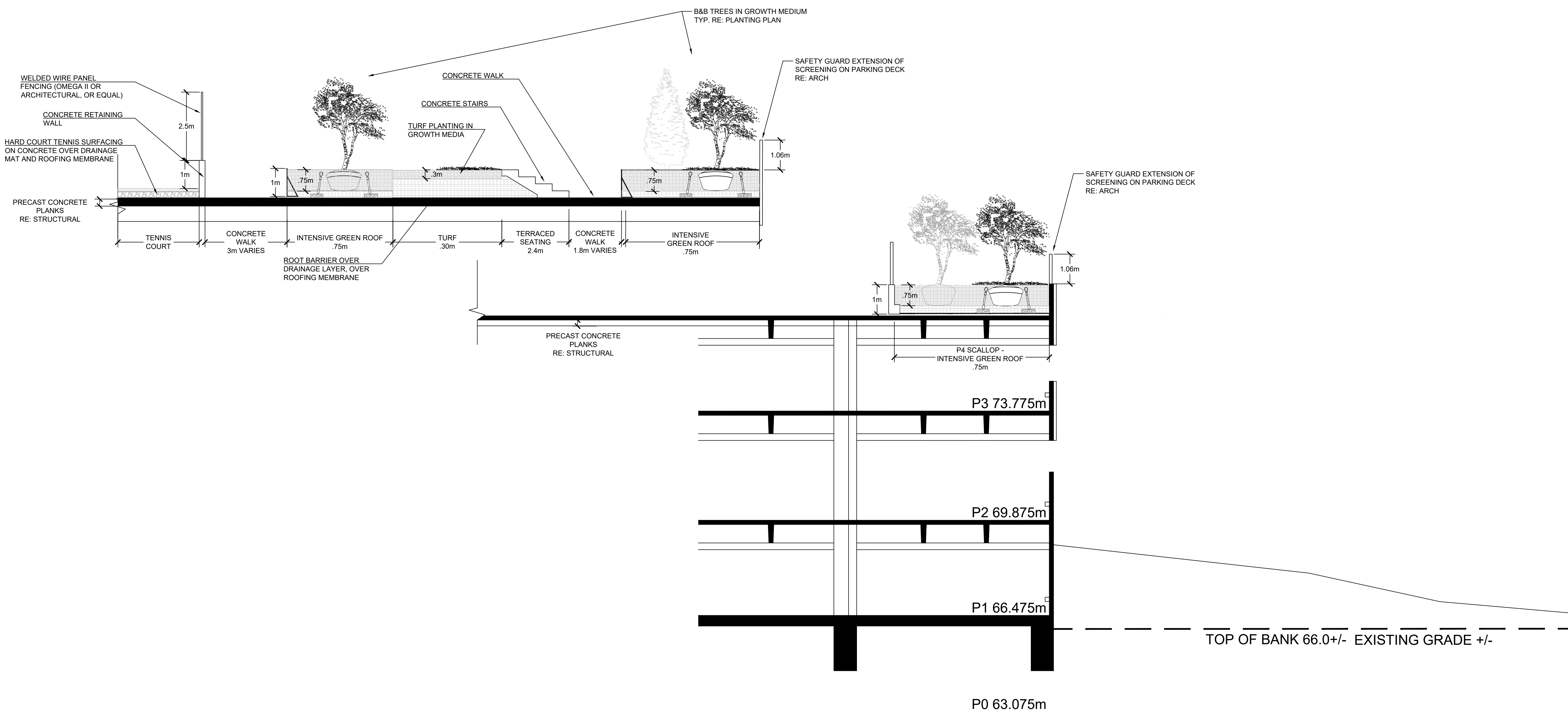






DETAIL ROOF SECTION D

SCALE 1:75



+ 57.60m Track Level

SCALE 1:75

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
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Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

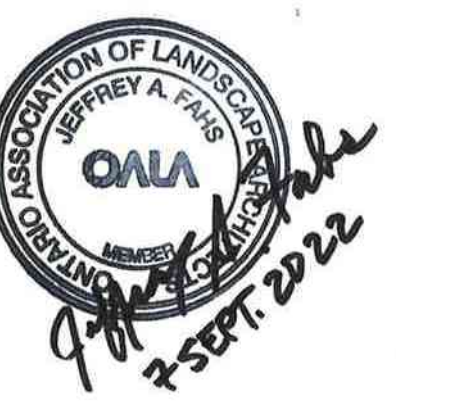
Sheet Reviewer: Author

MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
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01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number: 10305722  
Original Issue: September 2021

**APPROVED**  
By Lily Xu at 5:03 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



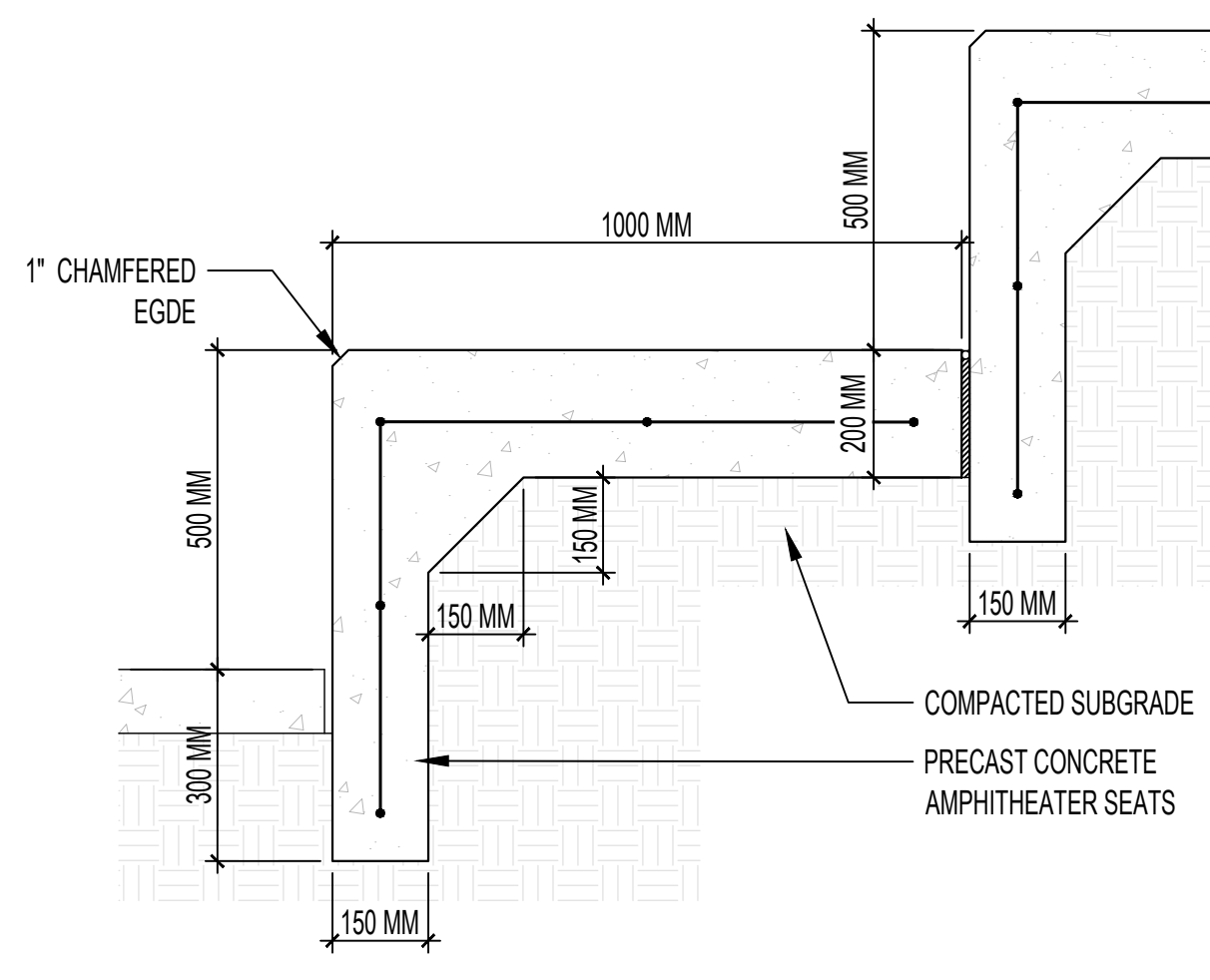
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**DETAIL ROOF SECTIONS**

Sheet Number  
**LS-403**

Project Status  
Progress Submission

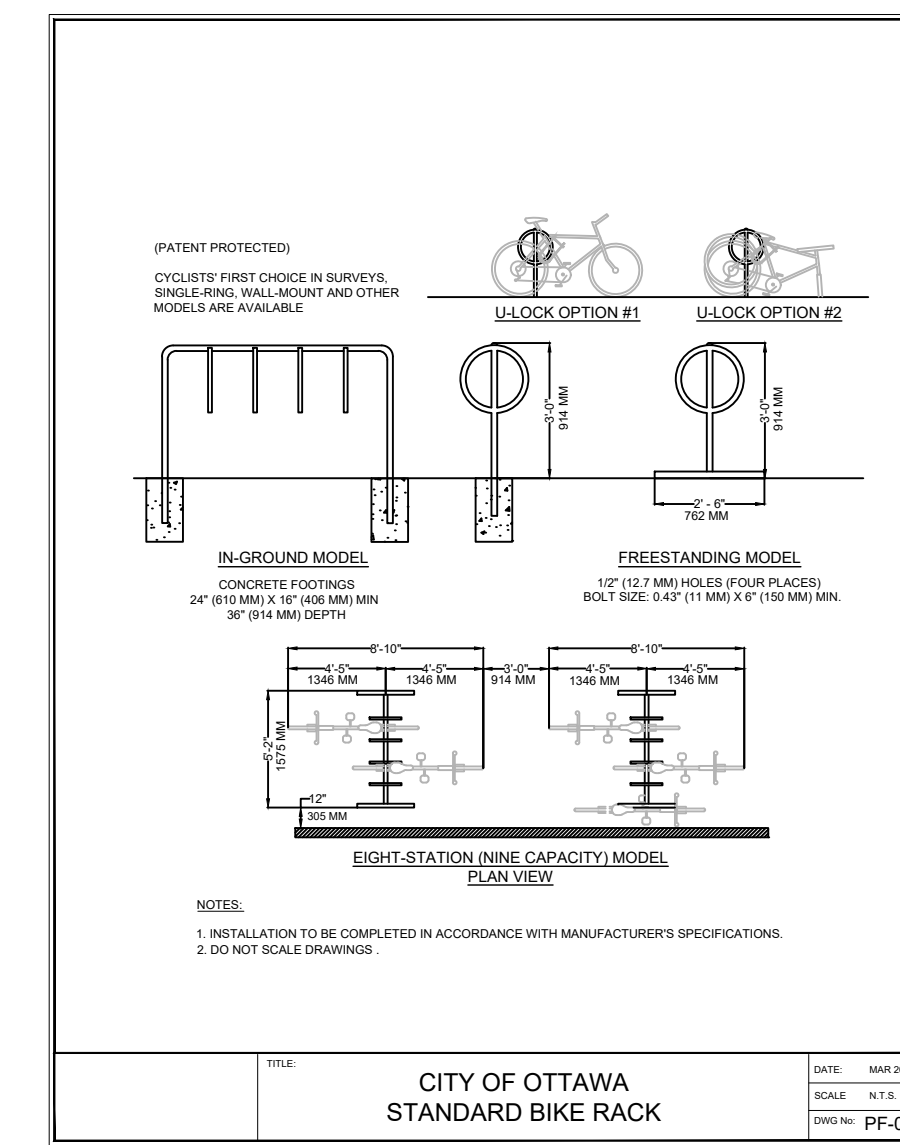
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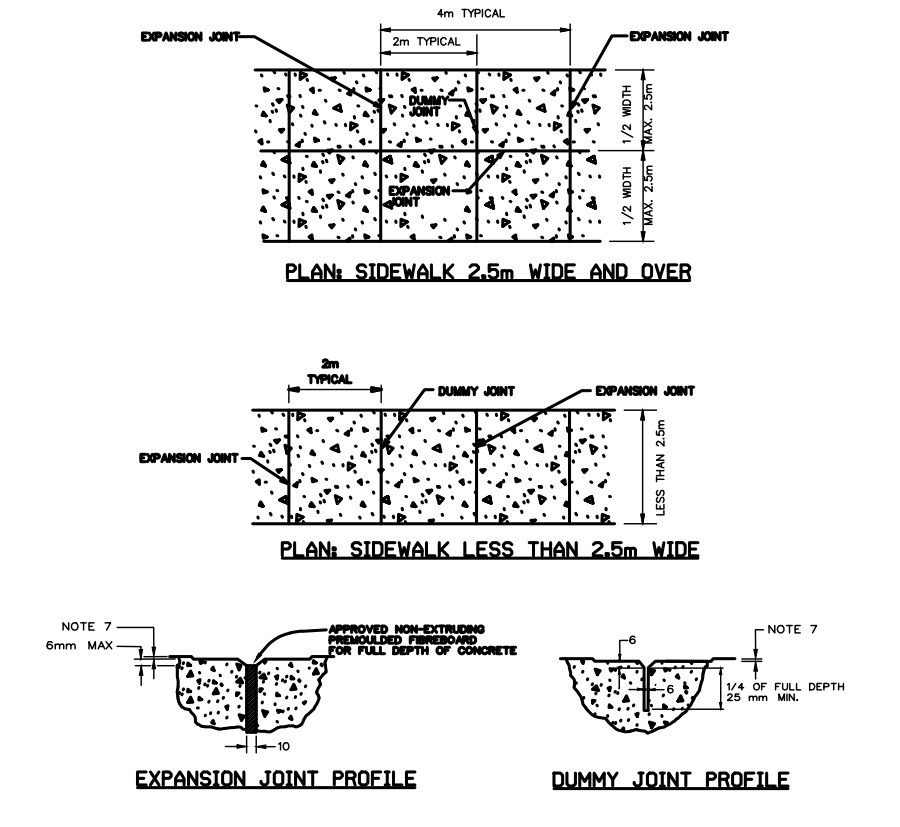


- NOTES:
1. DETAIL IS FOR DESIGN INTENT ONLY. CONTRACTOR TO SUBMIT FULLY ENGINEERED SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW.
  2. JOINTS TO BE SEALED.

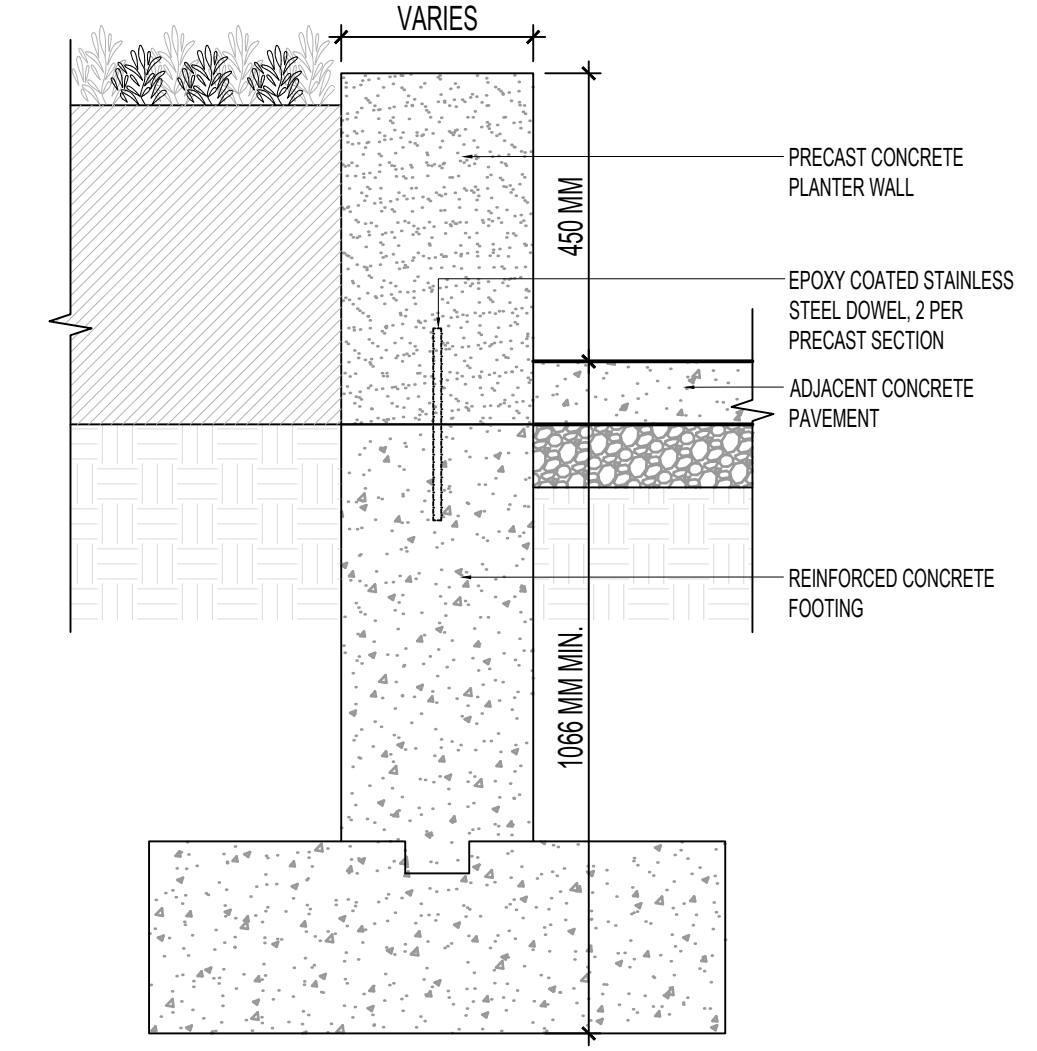
12 AMPHITHEATER  
N.T.S.



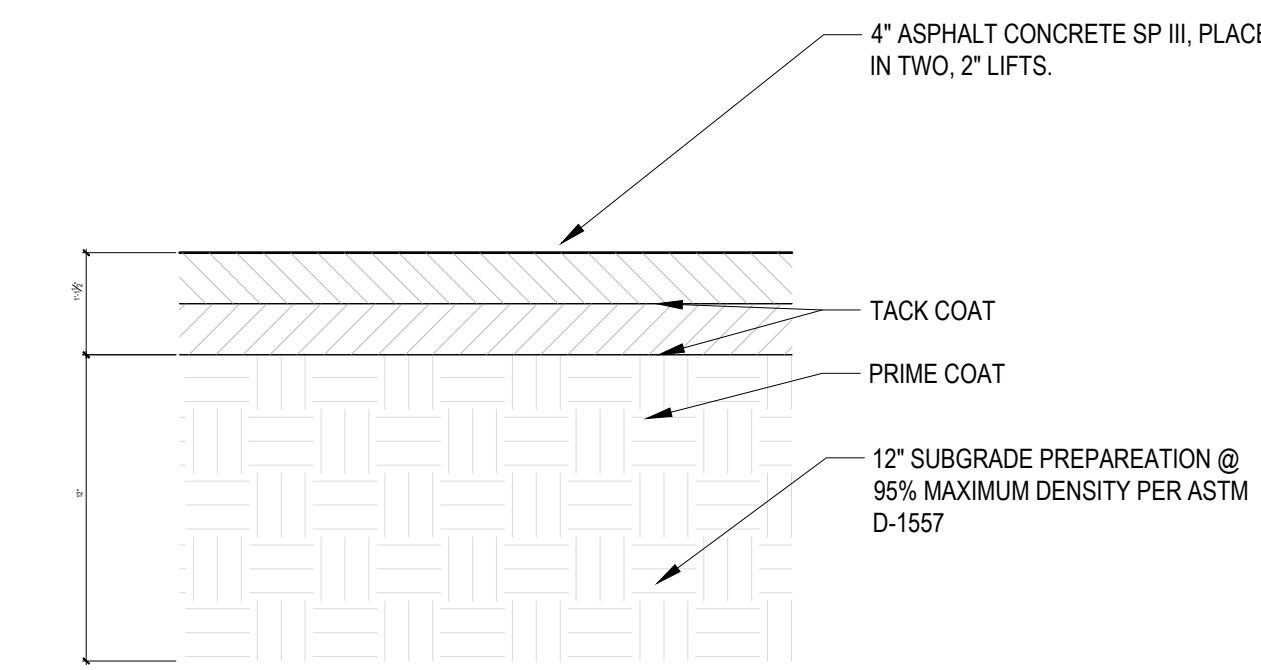
8 BICYCLE RACK - CITY OF OTTAWA STANDARD  
N.T.S.



4 SIDEWALK JOINTING SPACING & DETAILS  
N.T.S.

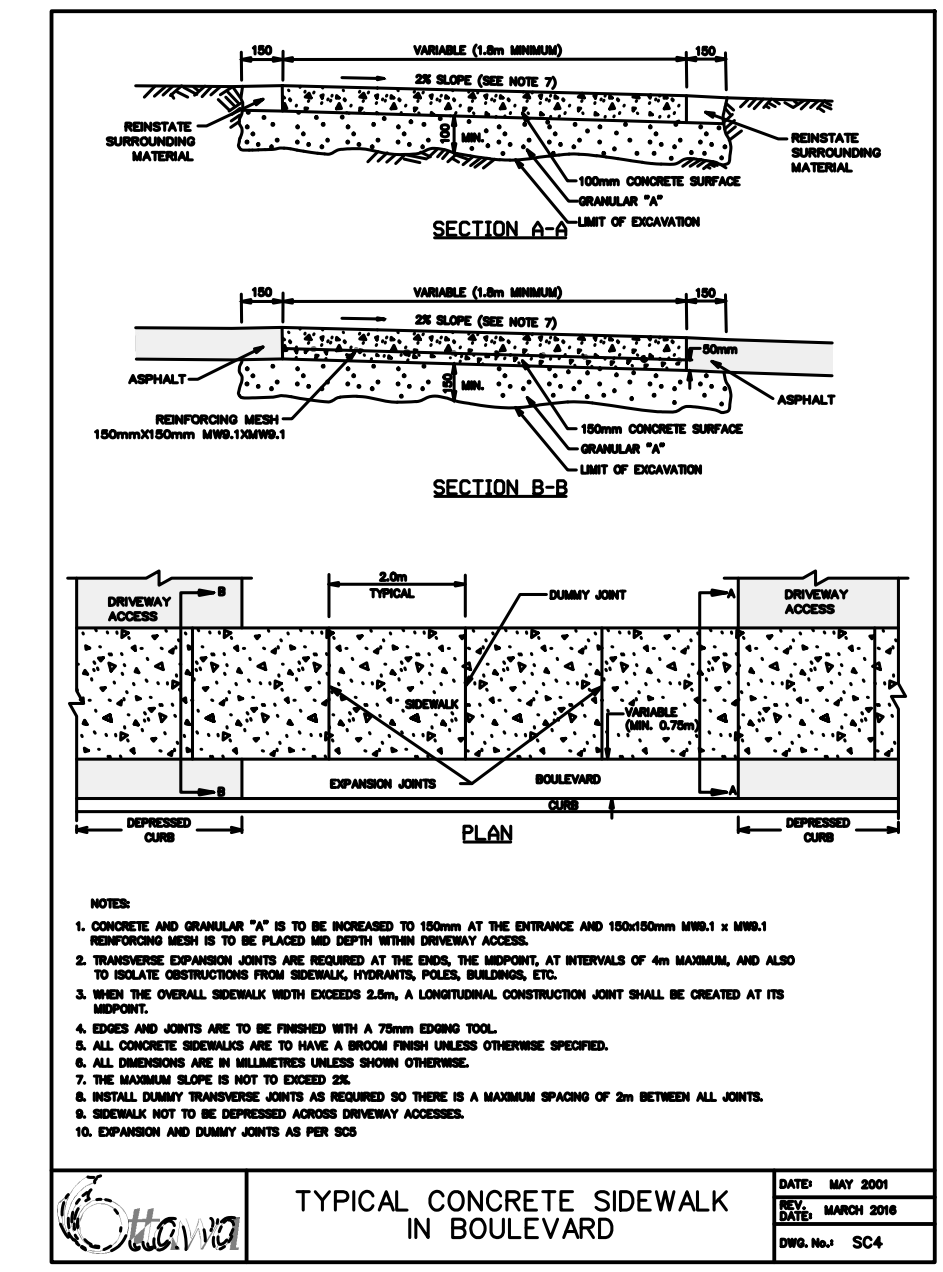


11 PRECAST CONCRETE PLANTER WALL  
N.T.S.



- NOTES:
1. REFER TO PLANS FOR LOCATIONS AND DIMENSIONS ASPHALT PAVEMENT
  2. REFER TO SPECIFICATIONS FOR PAVEMENT COMPOSITION

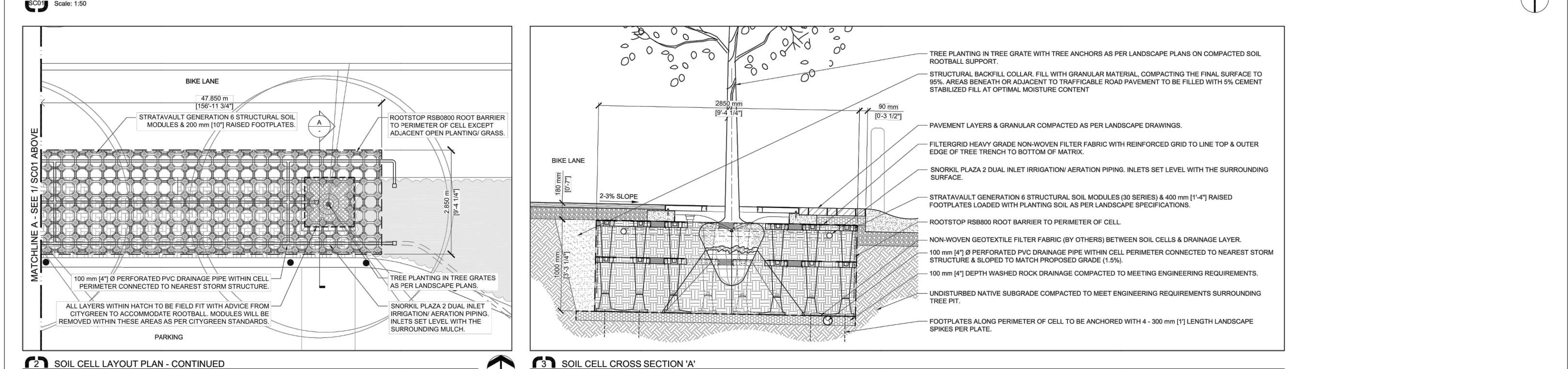
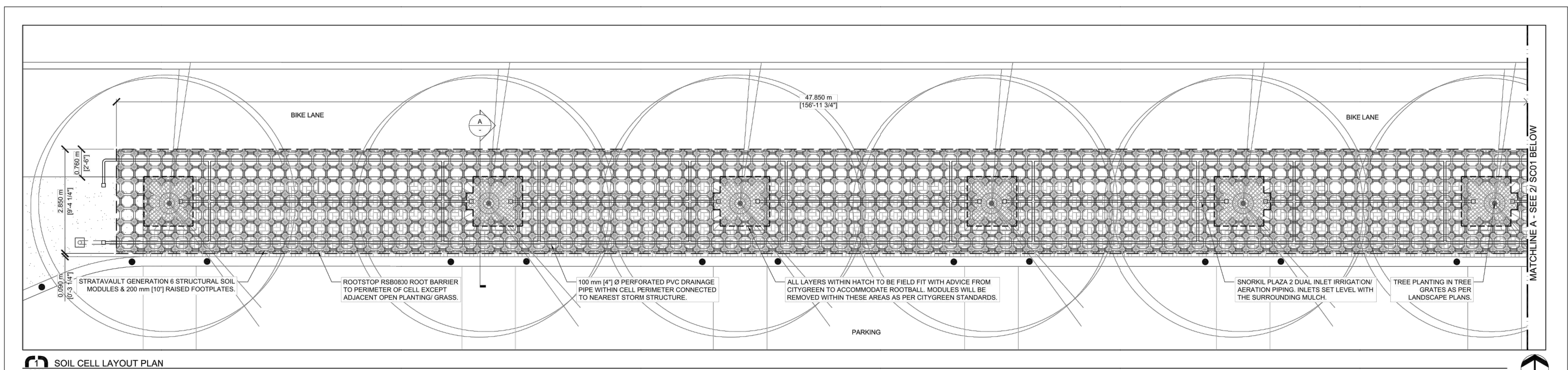
7 TYPICAL ASPHALT DRIVE SECTION  
N.T.S.



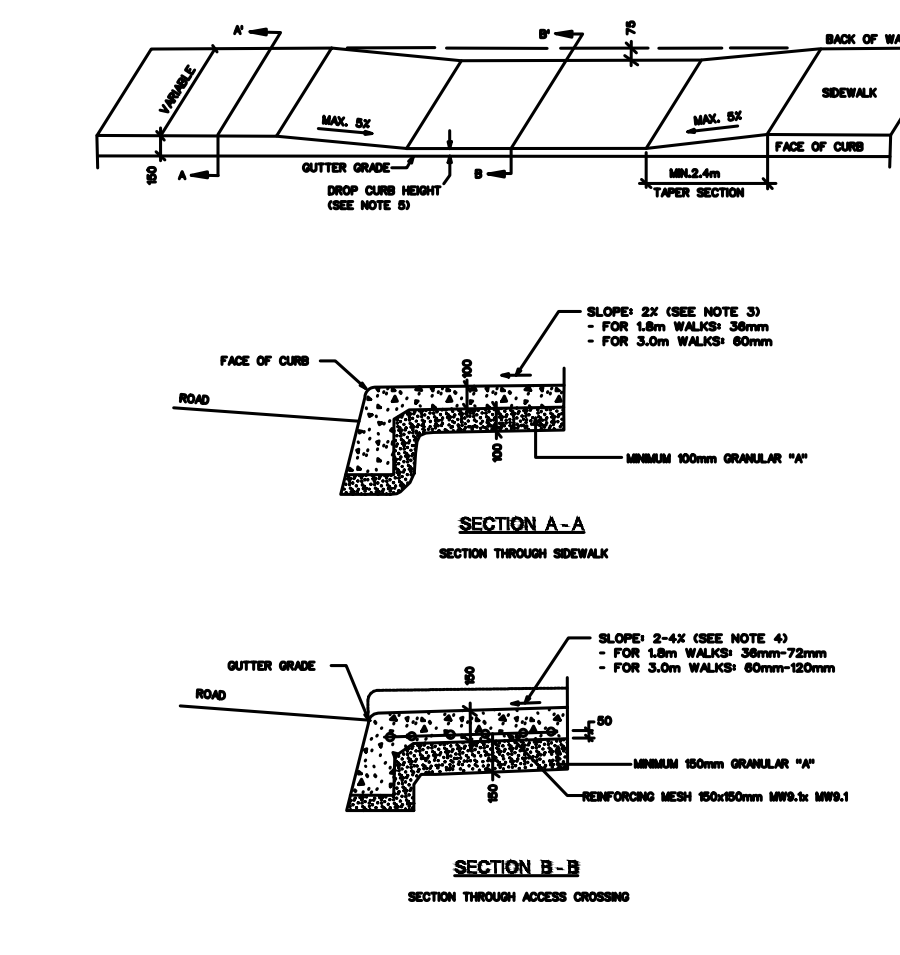
3 TYPICAL SIDEWALK ENLARGEMENT & DETAILS  
N.T.S.

APPROVED  
By Lily Xu at 5:04 pm, Sep 12, 2022

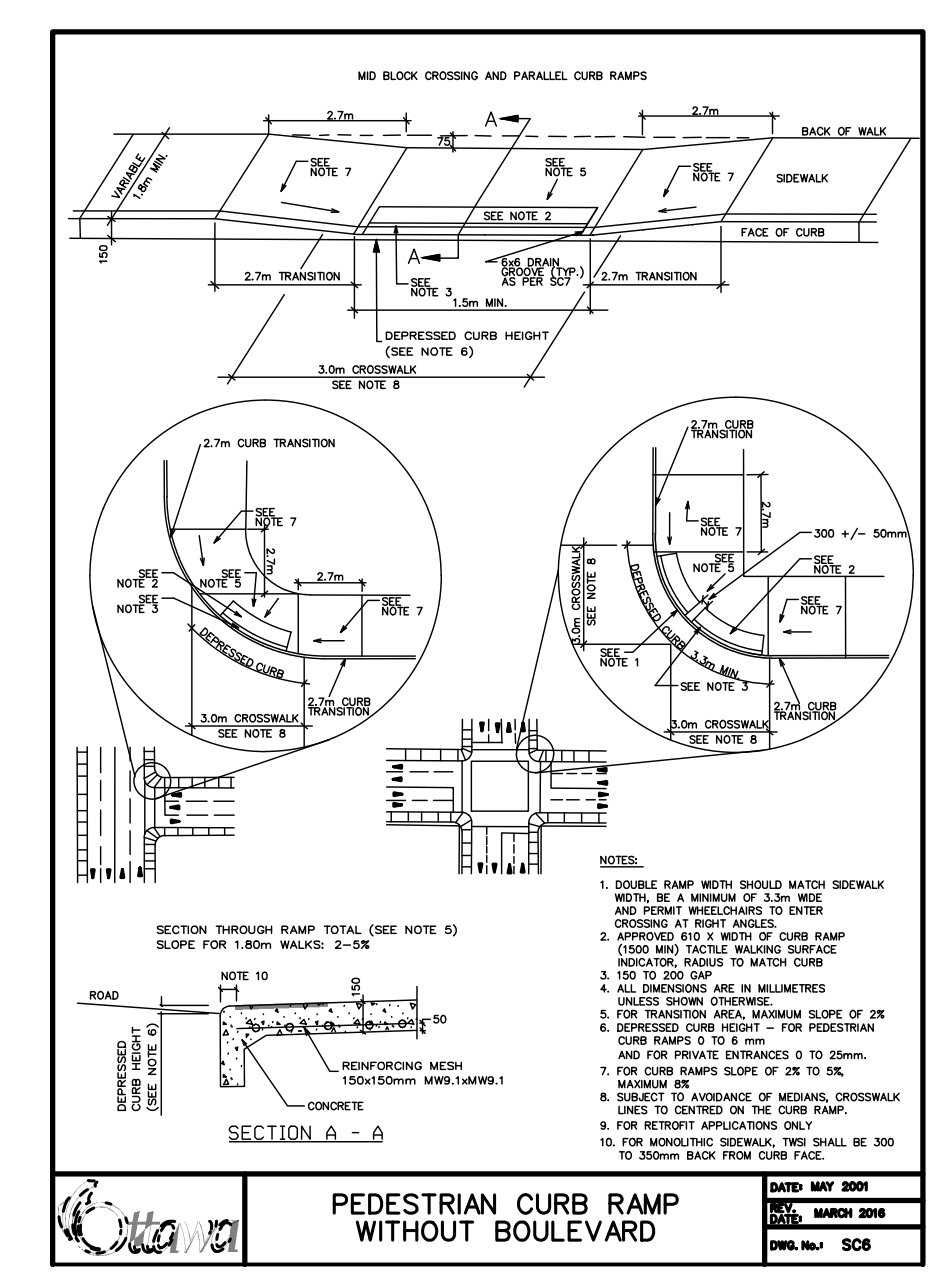
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



10 PERMEABLE CONCRETE UNIT PAVER  
N.T.S.



6 TYPICAL DEPRESSED SIDEWALK DETAIL  
N.T.S.



2 CURB RAMP & SIDEWALK ENLARGMENT @ ROAD A & ROAD B - SIM  
N.T.S.

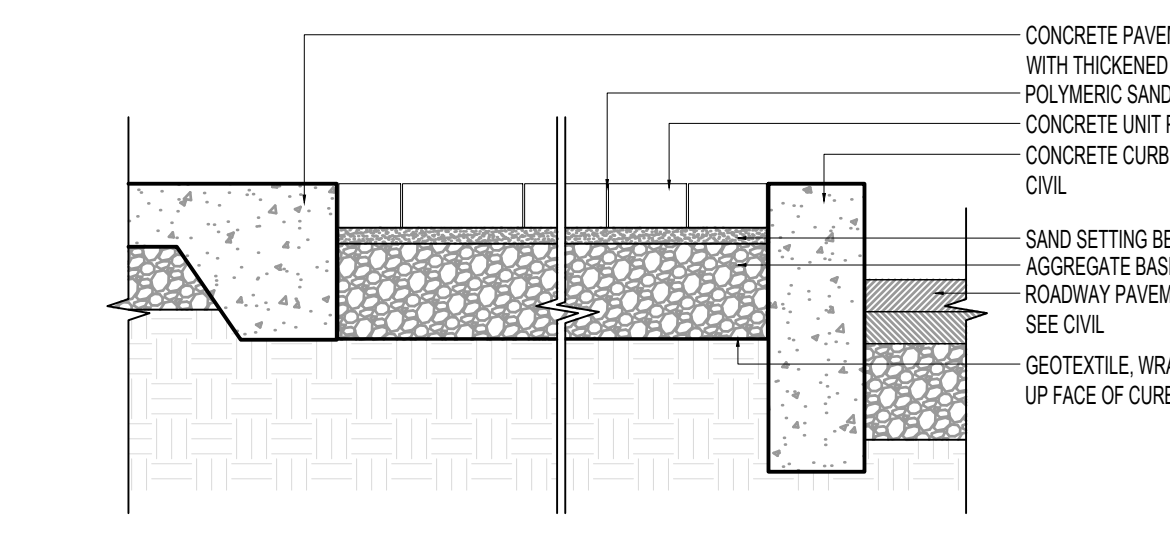
CityGreen  
Sustainable Infrastructure Solutions

Client: OTTAWA HOSPITAL PARKING GARAGE  
Project: W1 CITYGREN STREET/AVENUE 1 GENERATION 6  
SOIL CELL LAYOUT & CROSS SECTION

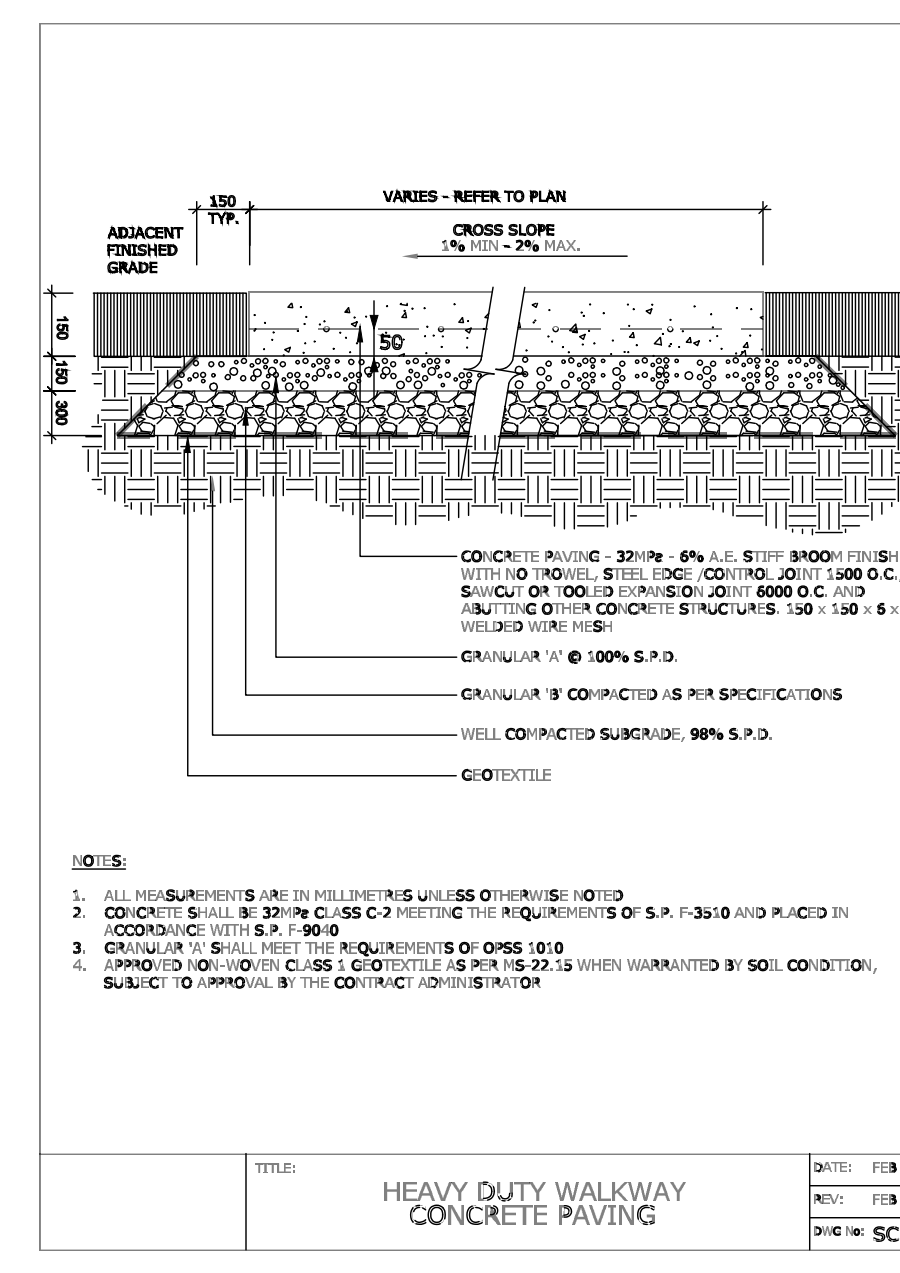
Scale: 1:100

Author: SCOT  
Checked: MP

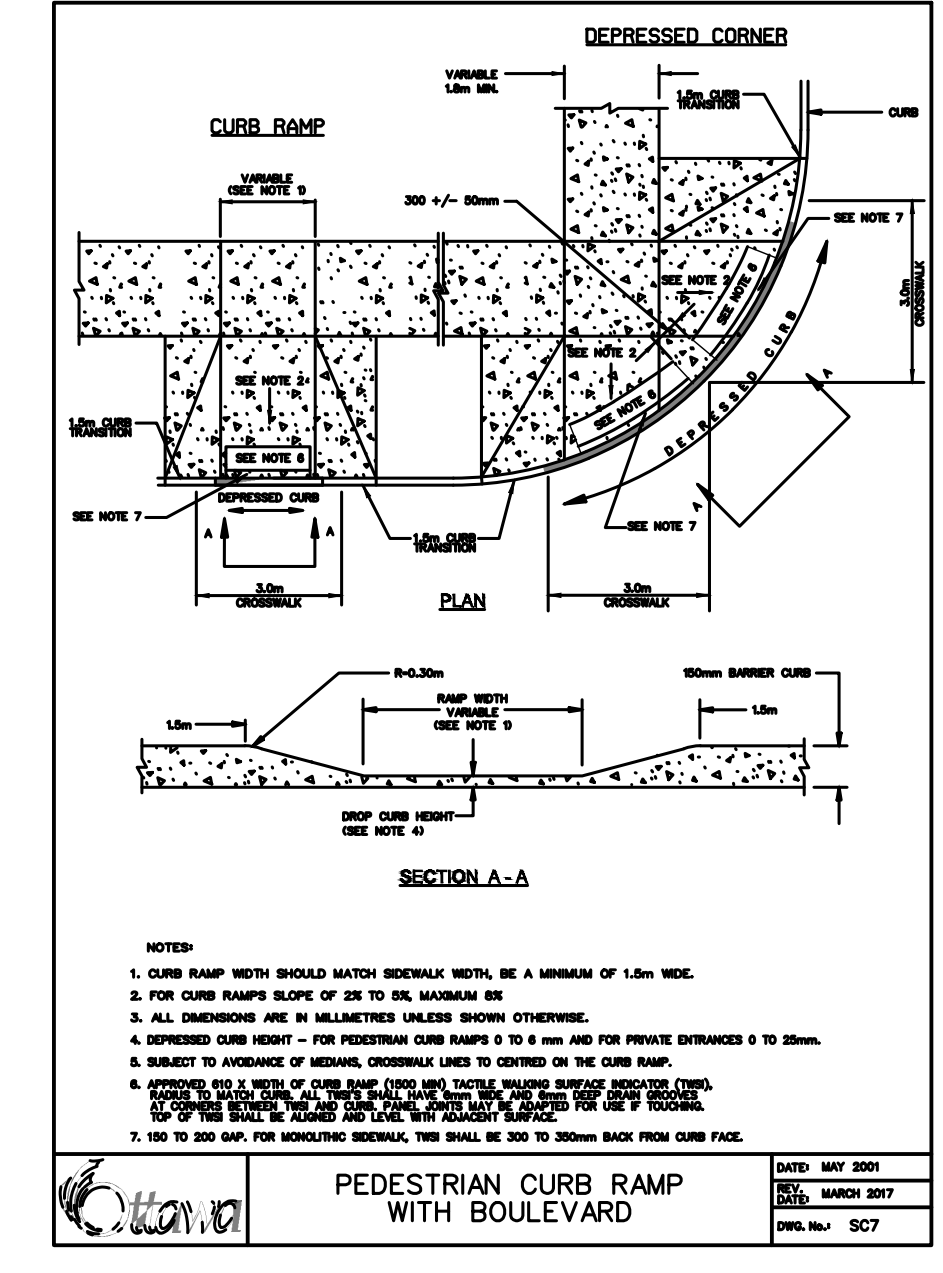
Date: 2022-07-27



9 CONCRETE UNIT PAVER  
N.T.S.



5 TYPICAL SIDEWALK & PLAZA SECTION  
N.T.S.



1 CURB RAMP & SIDEWALK ENLARGMENT @ ROAD B & PRINCE OF WALES - SIM  
N.T.S.

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9

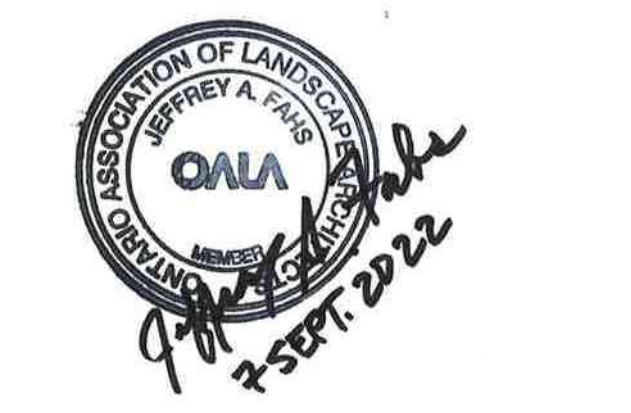
NEW CAMPUS DEVELOPMENT  
FOR THE OTTAWA HOSPITAL

Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TCM DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC RESUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
GROUND PLANE  
DETAILS

Sheet Number  
**LS501**

Project Status  
Progress Submission











Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Falls
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

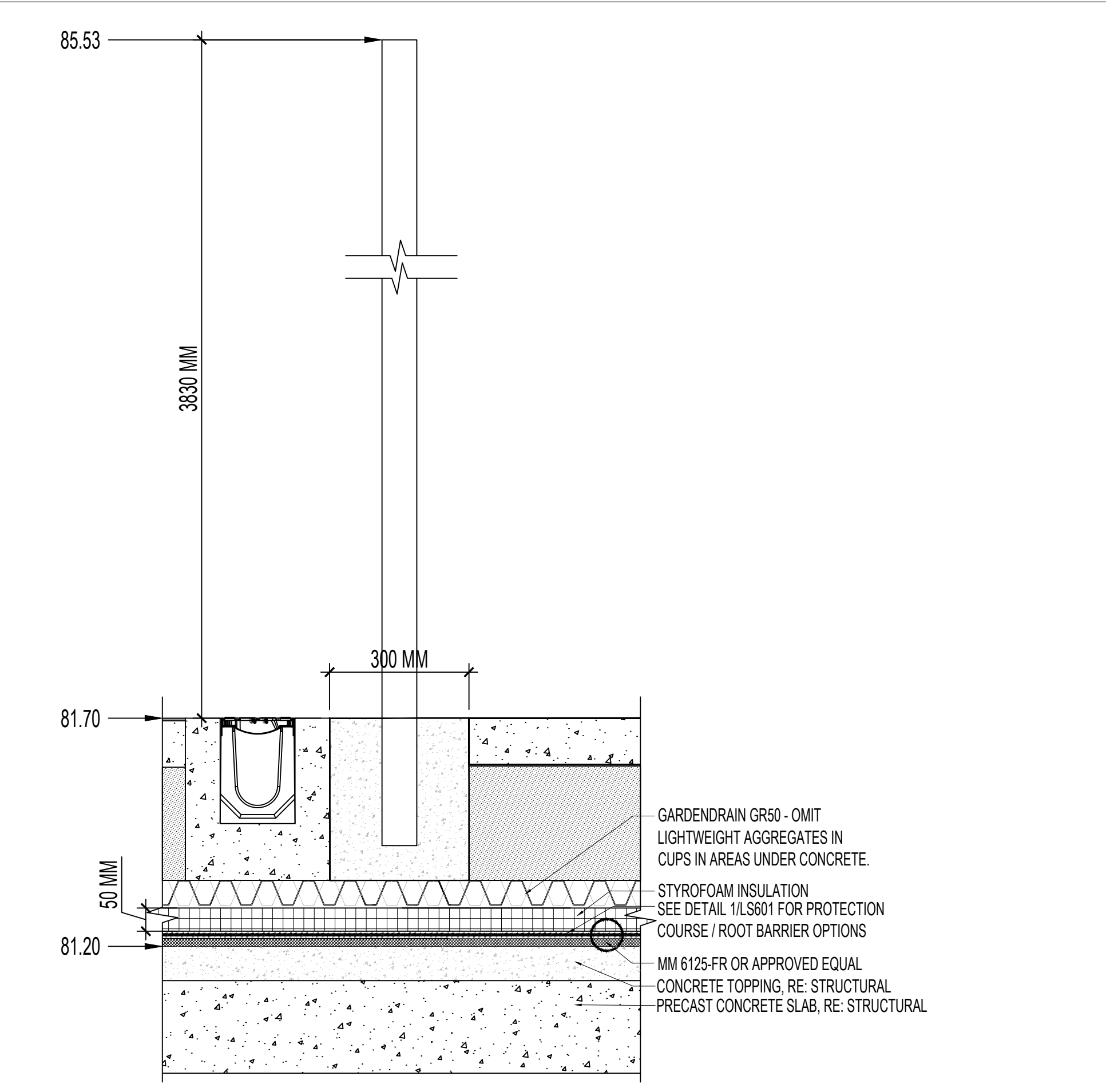
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Project Number: 10305722  
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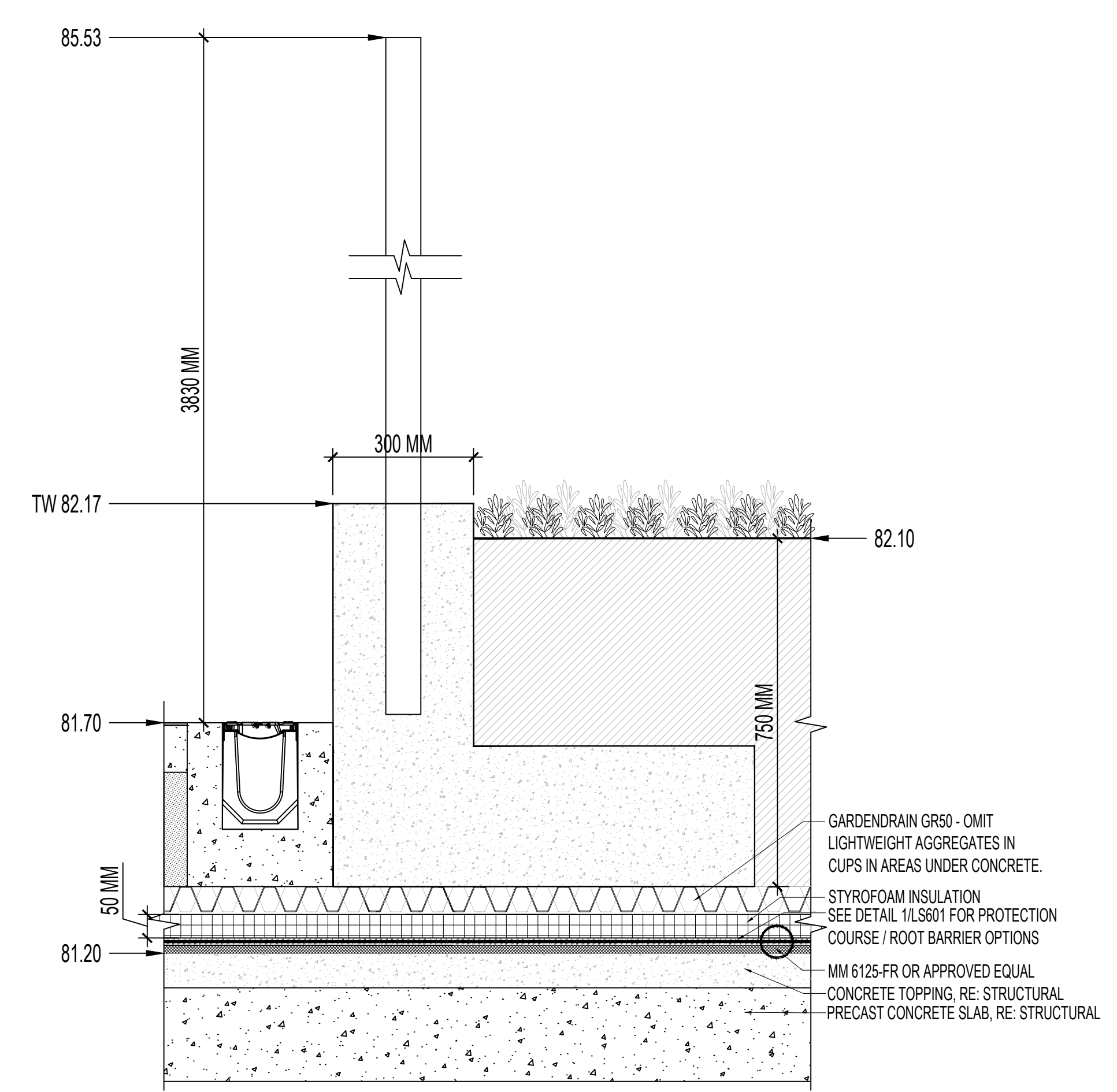


Sheet Name  
**GREEN ROOF DETAILS**

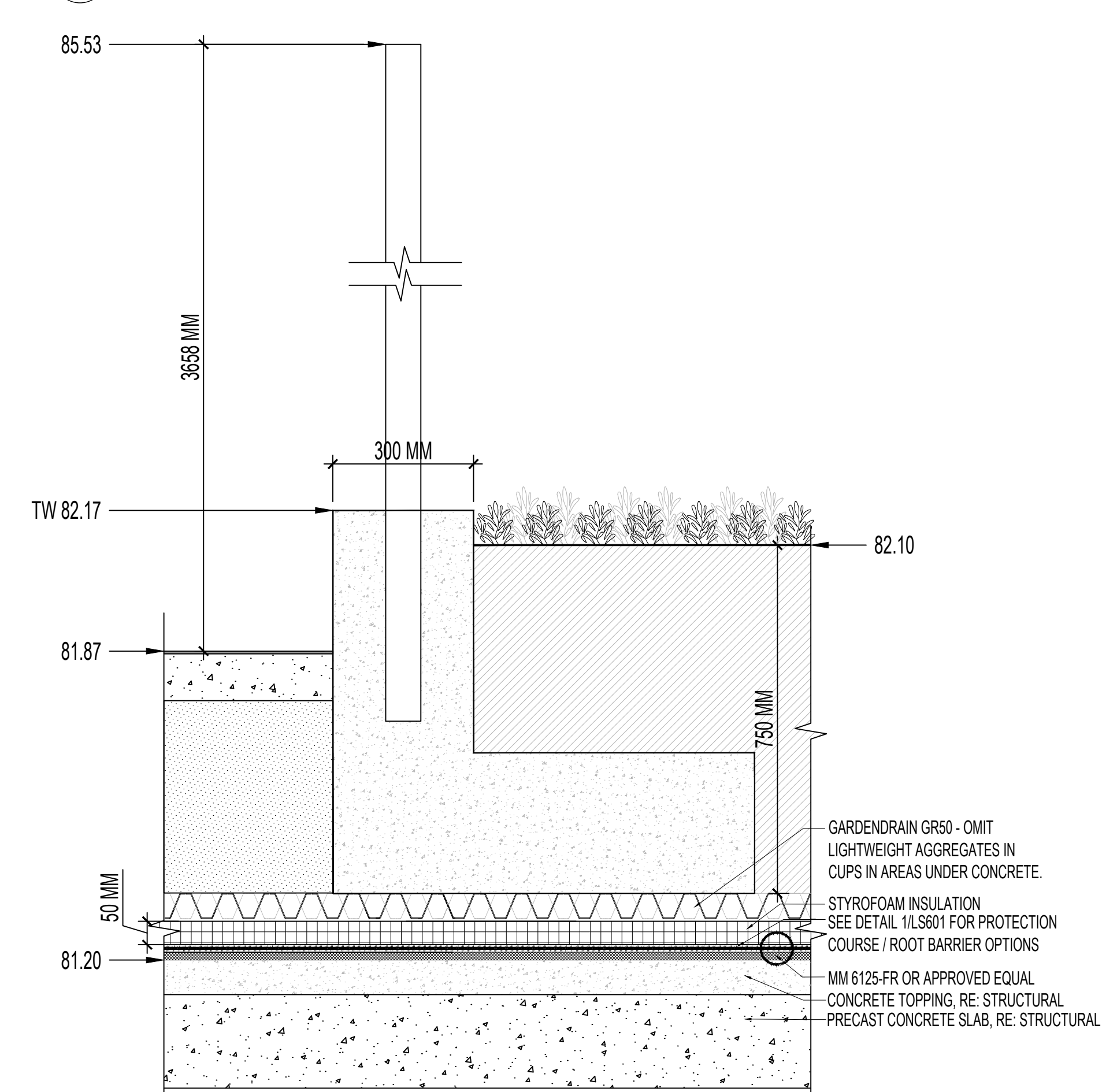
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**LS602**  
Progress Submission



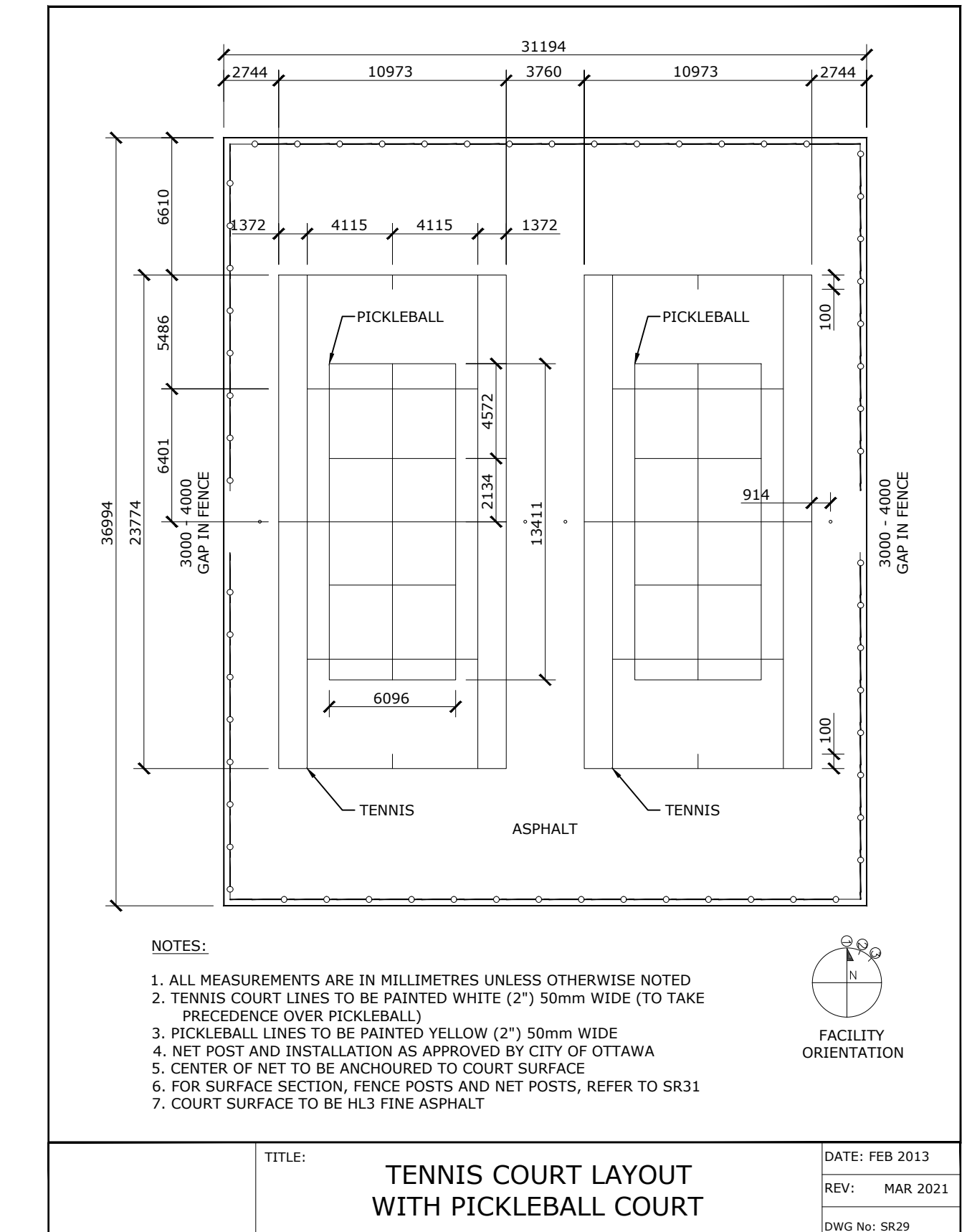
3 TENNIS COURT FENCE ON GRADE



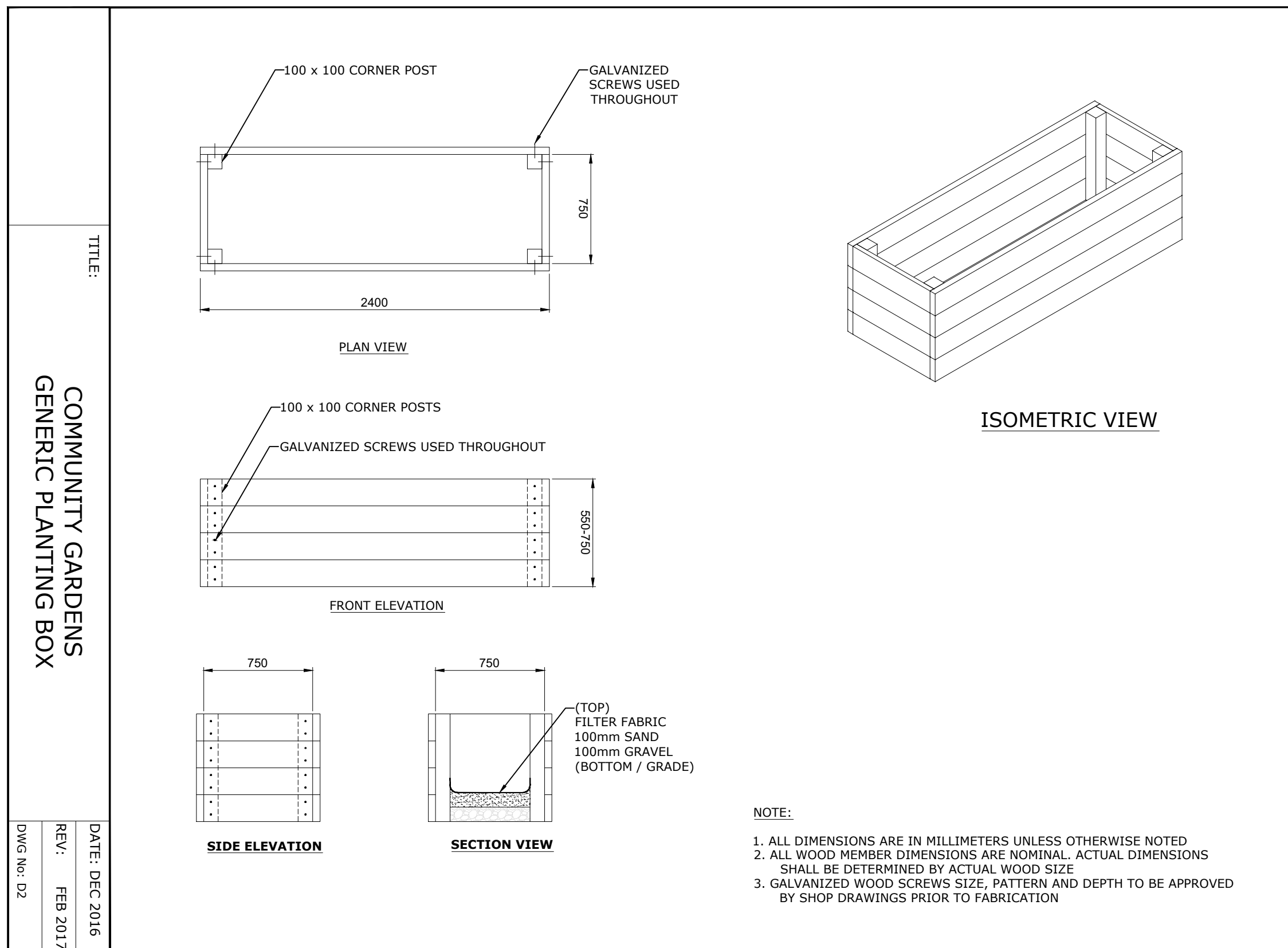
2 TENNIS COURT RETAINING WALL AT TRENCH DRAIN



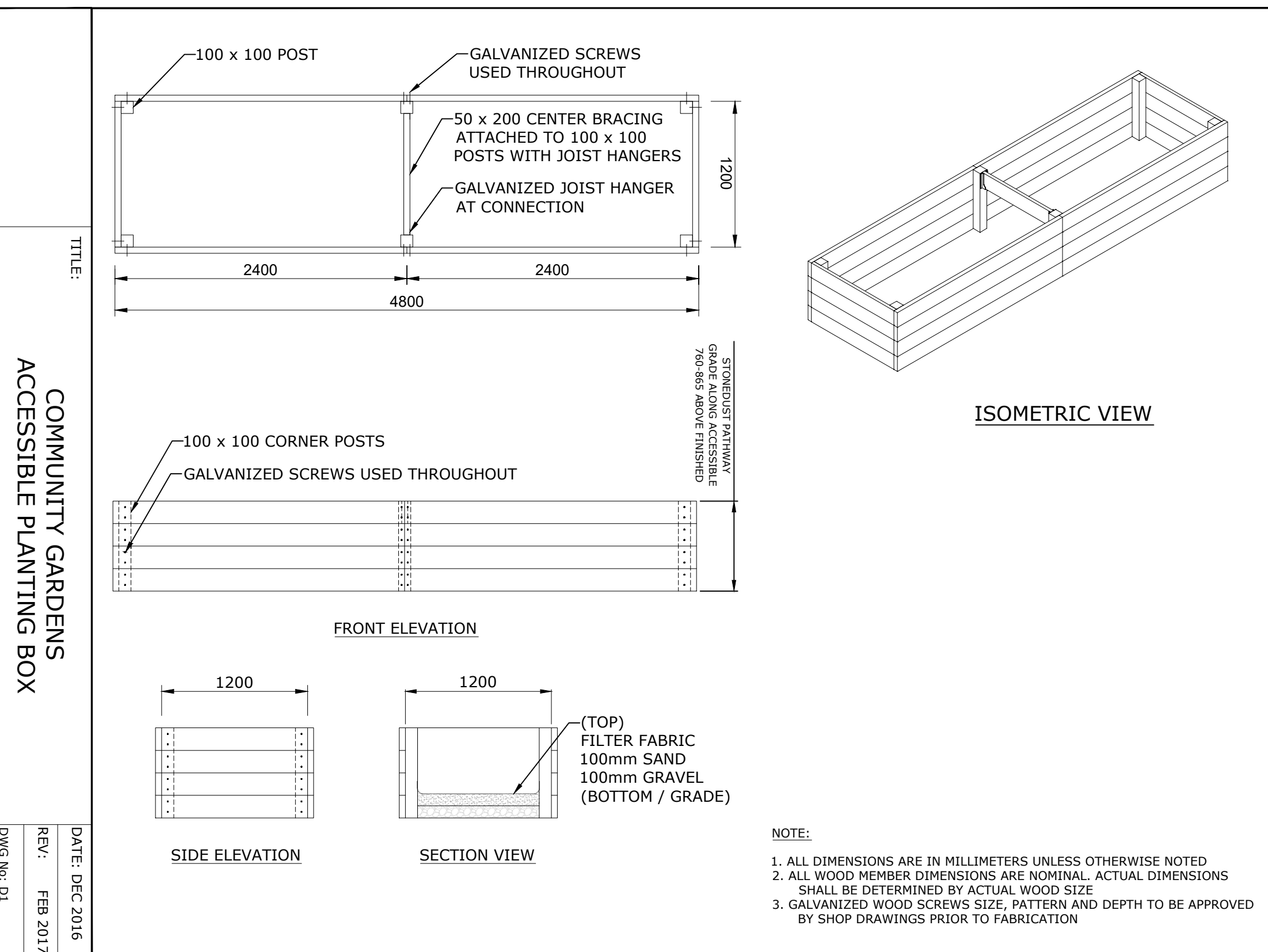
1 TENNIS COURT RETAINING WALL



TENNIS COURT LAYOUT WITH PICKLEBALL COURT



COMMUNITY GARDENS ACCESSIBLE PLANTING BOX



COMMUNITY GARDENS ACCESSIBLE PLANTING BOX

**APPROVED**  
By Lily Xu at 5:05 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
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Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

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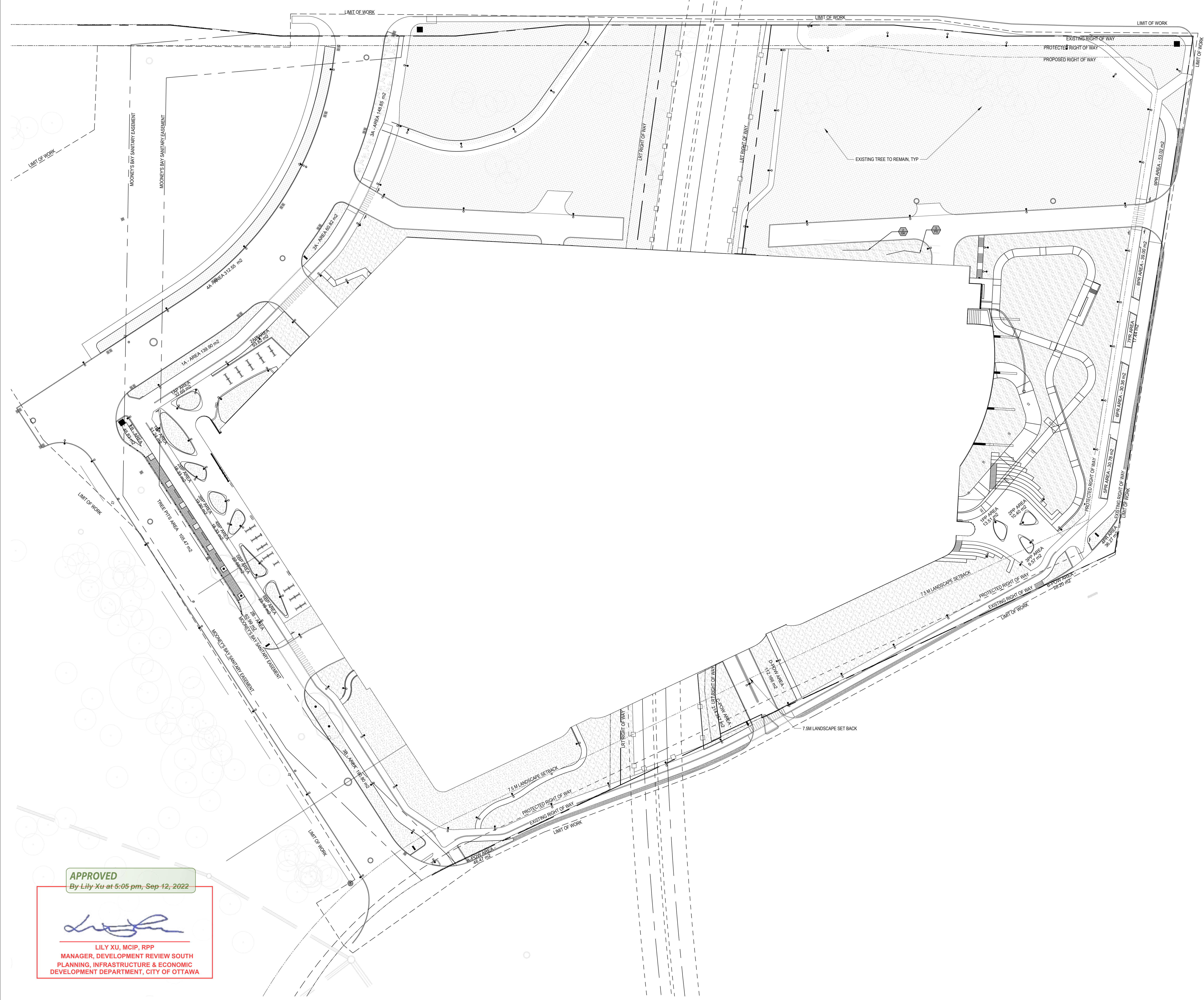
Project Number: 1030572  
Original Issue: September 2021



Sheet Name  
**GROUND PLANE  
SOIL VOLUME PLAN**

Sheet Number  
**LP-002**

Project Status  
Progress Submission



**SOIL VOLUME CALCULATIONS**

Road A	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/18m <sup>3</sup> (lg)	Proposed
1A Area	139.91	209.85	11.66	6 Trees
2A Area	60.82	91.23	5.07	2 Trees
3A Area	148.85	223.275	12.40	5 Trees
4A Area - Across Street	312.55	468.825	26.05	16 Trees

Road A Plaza Planters	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/15m <sup>3</sup> (med)	Proposed
1AP Area	32.69	49.035	3.27	3 Trees
2AP Area	99.82	149.73	9.98	3 Trees
3AP Area	83.36	125.07	8.34	5 Trees

Road B	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/18m <sup>3</sup> (lg)	Proposed
1B Area	46.83	70.245	3.90	2 Trees
2B Area	62.99	94.485	5.25	2 Trees
3B Area	190.6	286.2	15.90	7 Trees

Road B Plaza Planters	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/15m <sup>3</sup> (med)	Proposed
1BP Area	51.24	76.86	5.12	7 Trees
2BP Area	18.333	27.4995	1.83	2 Trees
3BP Area	19.9	29.85	1.99	3 Trees
4BP Area	18.333	27.4995	1.83	2 Trees
5BP Area	22.682	34.023	2.27	3 Trees
6BP Area	23.16	34.74	2.32	3 Trees

Road B Tree Pits	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/18m <sup>3</sup> (lg)	Proposed
Pits 2.5m x 2.5m x 2m	105.47	158.205	8.79	7 trees

Preston Plaza Planters	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/18m <sup>3</sup> (lg)	Proposed
1PP Area	13.513	20.2695	1.13	1 Tree
2PP Area	10.4	15.6	0.87	1 Tree
3PP Area	9.57	14.355	0.80	1 Tree

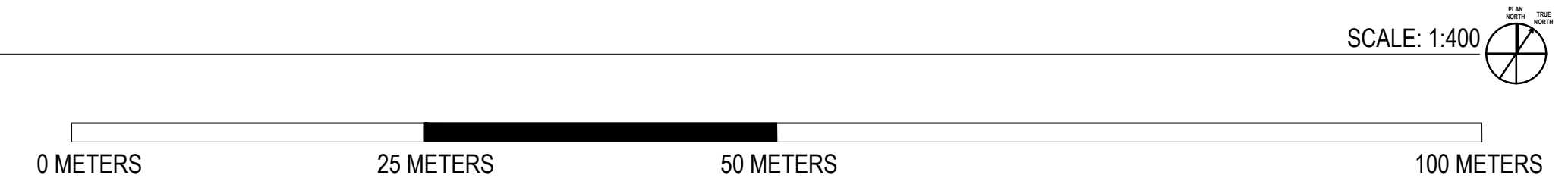
  

POW Blvd Planting Areas	AREA (m <sup>2</sup> )	x 1.5m depth (m <sup>3</sup> )	/18m <sup>3</sup> (lg)	Proposed
A-POW Area	46.56	69.84	3.88	1 Tree
B-POW Area	26.208	39.312	2.35	1 Tree
C-POW Area - LRT	214.257	321.3855	17.85	5 Trees
D-POW Area	112.166	168.249	9.35	5 Trees

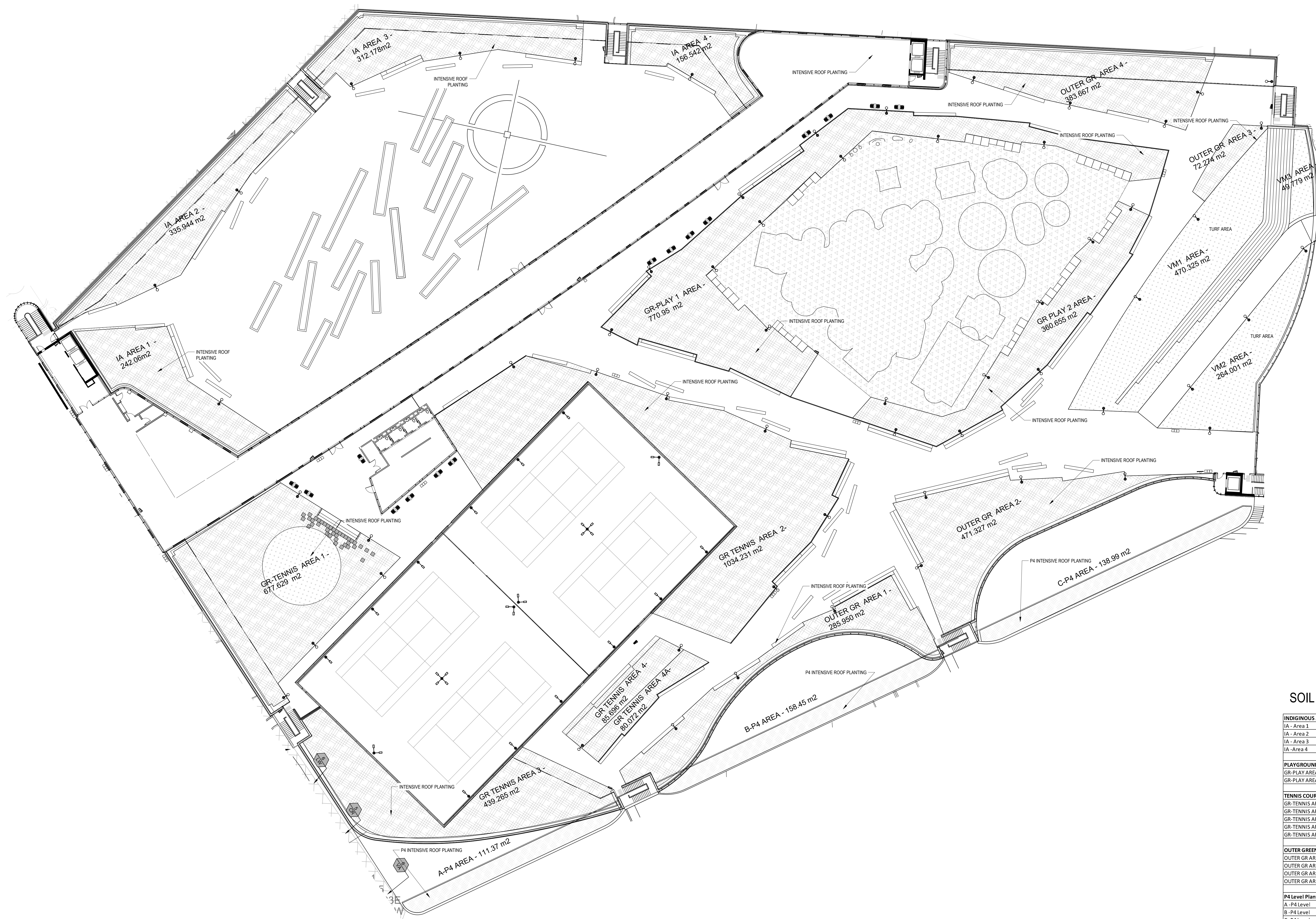
**APPROVED**  
By Lily Xu at 5:05 pm, Sep 12, 2022

LILY XU, MCIIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**GROUND PLANE SOIL VOLUME PLAN**







**SOIL VOLUME CALCULATIONS**

INDIGENOUS AREA	AREA (m <sup>2</sup> )	x .75m depth (m <sup>3</sup> )	/ 15m <sup>3</sup> (med)	Proposed
IA - Area 1	242.06	181.545	12.10	17 Trees
IA - Area 2	335.944	251.958	16.80	18 Trees
IA - Area 3	312.178	234.135	15.61	23 Trees
IA - Area 4	156.542	117.4065	7.83	11 Trees
PLAYGROUND AREA	AREA (m <sup>2</sup> )	x .75m depth (m <sup>3</sup> )	/ 15m <sup>3</sup> (med)	Proposed
GR-PLAY AREA 1	270.95	203.2125	13.55	65 Trees
GR-PLAY AREA 2	360.655	270.49125	18.03	32 Trees
TENNIS COURTS	AREA (m <sup>2</sup> )	x .75m depth (m <sup>3</sup> )	/ 15m <sup>3</sup> (med)	Proposed
GR-TENNIS AREA 1	677.629	508.22175	33.88	34 Trees
GR-TENNIS AREA 2	1034.231	775.6725	51.71	73 Trees
GR-TENNIS AREA 3	439.265	329.44875	21.96	31 Trees
GR-TENNIS AREA 4	85.696	64.272	4.28	8 Trees
GR-TENNIS AREA 4a	80.072	60.054	4.00	5 Trees
OUTER GREEN ROOF	AREA (m <sup>2</sup> )	x .75 depth (m <sup>3</sup> )	/ 15m <sup>3</sup> (med)	Proposed
OUTER GR AREA 1	285.95	214.4625	14.30	21 Trees
OUTER GR AREA 2	471.327	353.49525	23.57	31 Trees
OUTER GR AREA 3	72.274	54.2055	3.61	8 Trees
OUTER GR AREA 4	383.667	287.75025	19.18	31 Trees
P4 Level Planting Areas	AREA (m <sup>2</sup> )	x .75m depth (m <sup>3</sup> )	/ 9 m <sup>3</sup> (orm.)	Proposed
A-P4 Level	111.37	83.5275	9.28	9 Trees
B-P4 Level	158.45	118.84	13.20	13 Trees
C-P4 Level	138.99	104.24	11.58	11 Trees
Vista Mound				
VM1 - turf	470.325			
VM2 - turf	264.001			
VM3 - turf	49.779			

- Project Manager** Robert Malloy  
**Project Designer** Jason Emery Green  
**Project Architect** Jeff Fahs  
**Landscape Architect** Jeff Fahs  
**Civil Engineer** LEA Engineering  
**Structural Engineer** LEA Engineering  
**Mechanical Engineer** Smith + Andersen  
**Electrical Engineer** Smith + Andersen  
**Plumbing Engineer** Smith + Andersen  
**Interior Designer** Equipment Planner  
**Equipment Planner** Equipment Planner  
**Wayfinding** HDR

Sheet Reviewer: Author

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08	2022-04-04	ISSUED FOR CM PRICING
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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 1030572  
 Original Issue: September 2021



Sheet Name  
**GREEN ROOF SOIL VOLUME PLAN**

Sheet Number  
**LP-003**  
 Project Status  
Progress Submission

**APPROVED**  
By Lily Xu at 5:06 pm, Sep 12, 2022

*Lily Xu*  
 LILY XU, MCIIP, RPP  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, INFRASTRUCTURE & ECONOMIC  
 DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**GREEN ROOF SOIL VOLUME PLAN**

SCALE: 1:250



OVERALL GROUND PLANE PLANTING PLAN

PLANT SCHEDULE ALL GROUND PLANE PLANTS						
TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
AN	10	Acer nigrum / Green Column Black Maple	B & B	50mm Cal	Single Stem	
AR	9	Acer rubrum / Red Maple	B & B	50mm Cal	Single Stem	
AS2	6	Acer saccharinum / Silver Maple	B & B	50mm Cal	Single Stem	
AS	32	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem	
GT	31	Gleditsia triacanthos inermis / Shademaster / Shademaster Honey Locust	B & B	50mm Cal	Single Stem	
GK	24	Gymnocladia dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem	
QR	38	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem	
MEDIUM TREES						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
AP	26	Acer pensylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem	
BP3	34	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem	
CO	4	Celtis occidentalis / Common Hackberry	B & B	50mm Cal	Single Stem	
CONIFERS						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
JE	3	Juniperus virginiana / Eastern Redcedar	B & B	200cm Cal	Single Stem	
PS	67	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem	
SMALL TREES						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
AC2	39	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem	
BP	20	Betula papyrifera / Paper Birch	60L	4500-5500mm HT.	Multi-Stem	
BP2	46	Betula papyrifera / Paper Birch	B & B	5500-7000mm HT.	Multi-Stem	
CE	15	Cercis canadensis / Eastern Redbud	B & B	3000-3600mm HT.	Multi-Stem	
CA	35	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem	
SHRUBS						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
CS	24	Cephalanthus occidentalis 'SMCOSS' TM / Sugar Shack Buttonbush	5 Gal	900-1200mm HT.		
CR	53	Cornus sericea / Red Twig Dogwood	3 Gal	450-600mm HT.		
HV	36	Hamamelis virginiana / Common Witch Hazel	5 Gal	900-1200mm HT.		
LW	58	Ilex verticillata / Winterberry	3 Gal	450-600mm HT.		
IV	25	Ilex virginica 'Sprich' TM / Little Henry Sweetspire	5 Gal	450-600mm HT.		
RE	9	Rhododendron s. 'P.J.M.' / P.J.M. Rhododendron	5 Gal	450-600mm HT.		
RT	44	Rhus typhina / Staghorn Sumac	3 Gal	450-600mm HT.		
VA	74	Vaccinium angustifolium / Lowbush Blueberry	3 Gal	450-600mm HT.		

OVERALL GREEN ROOF PLANTING PLAN

PLANT SCHEDULE GREEN ROOF						
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
AP	9	Acer pensylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem	
PT	22	Populus tremuloides / Quaking Aspen	B & B	4500-5500mm HT.	Multi-Stem	
CONIFERS						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
JE	28	Juniperus virginiana / Eastern Redcedar	B & B	200cm Cal	Single Stem	
PG	92	Picea glauca / White Spruce	B & B	200cm Cal	Single Stem	Mixed, 5 gal. to 6'
SMALL TREES						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
AC2	46	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem	
BP2	230	Betula papyrifera / Paper Birch	B & B	5500-7000mm HT.	Multi-Stem	
CA	12	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem	
SHRUBS						
QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS	
MS	731	Matteuccia struthiopteris / Ostrich Fern	3 Gal	450-600mm HT.		
TC	35	Taxus canadensis / Canadian Yew	3 Gal	450-600mm HT.		

GROUND COVER SCHEDULE

- SPRING EPHEMERAL LAYER
- Asarum canadense / Wild Ginger
  - Maianthemum canadense / Canada mayflower
  - Tiarella (sp) / Foamflower
  - Anemone canadensis / Canada anemone
  - Phlox divaricata / Wild Blue Phlox

- SEDGE CARPET
- Carex brevior / Plains Oval Sedge
  - Carex rosea / Rosy Sedge
  - Carex aurea / Golden Sedge
  - Deschampsia cespitosa / Tufted Hairgrass
  - Arctostaphylos uva-ursi / Bearberry

- MIXED FERNS
- Matteuccia struthiopteris / Ostrich Fern
  - Athyrium filix-femina / Lady Fern



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

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



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Sheet Reviewer: \_\_\_\_\_ Author: \_\_\_\_\_

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01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number 10305722  
Original Issue September 2021



Sheet Name  
LANDSCAPE PLANTING  
SCHEDULE

Sheet Number  
LP-100

Project Status  
Progress Submission

APPROVED  
By Lily Xu at 5:06 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
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Plumbing Engineer: Smith + Andersen  
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Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 1030572  
Original Issue: September 2021

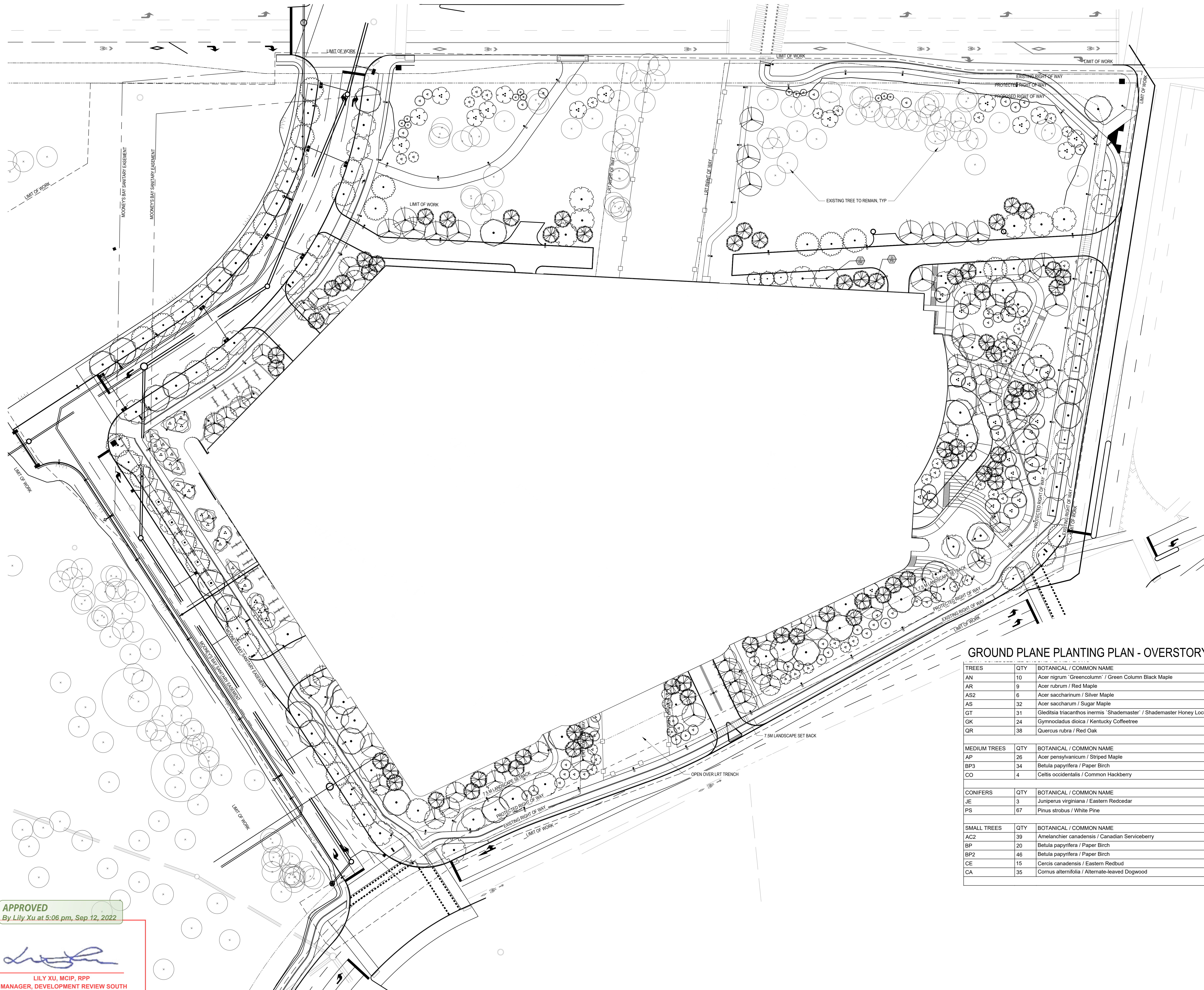


Sheet Name  
**GROUND PLANE  
OVERSTORY  
PLANTING PLAN**

Sheet Number

**LP-101**

Project Status  
Progress Submission



**GROUND PLANE PLANTING PLAN - OVERSTORY**

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AN	10	Acer nigrum / Greencolumn / Green Column Black Maple	B & B	50mm Cal	Single Stem
AR	9	Acer rubrum / Red Maple	B & B	50mm Cal	Single Stem
AS2	6	Acer saccharinum / Silver Maple	B & B	50mm Cal	Single Stem
AS	32	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem
GT	31	Gleditsia triacanthos inermis 'Shademaster' / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
GK	24	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem
QR	38	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AP	26	Acer pensylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem
BP3	34	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem
CO	4	Celtis occidentalis / Common Hackberry	B & B	50mm Cal	Single Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
JE	3	Juniperus virginiana / Eastern Redcedar	B & B	200cm Cal	Single Stem
PS	67	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem
SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AC2	39	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem
BP	20	Betula papyrifera / Paper Birch	GOL	4500-5500mm HT.	Multi-Stem
BP2	46	Betula papyrifera / Paper Birch	B & B	5500-7000mm HT.	Multi-Stem
CE	15	Cercis canadensis / Eastern Redbud	B & B	3000-3600mm HT.	Multi-Stem
CA	35	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem

**APPROVED**  
By Lily Xu at 5:06 pm, Sep 12, 2022

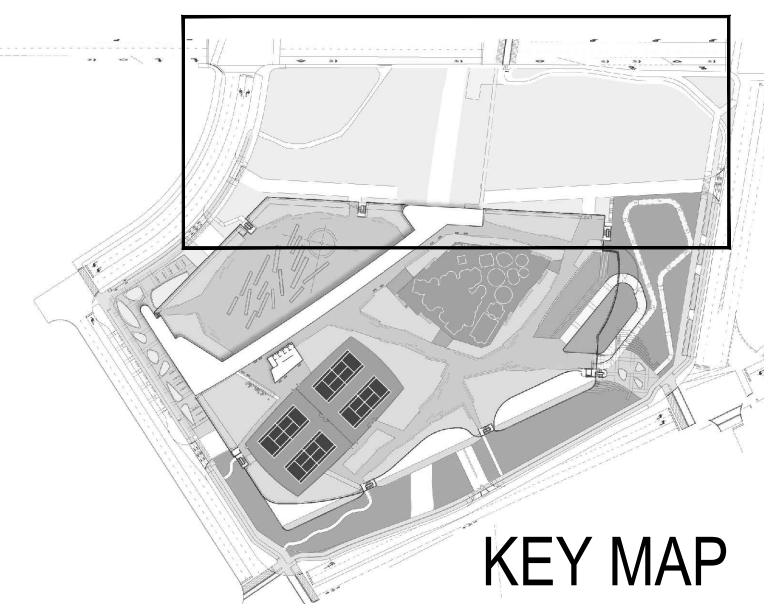
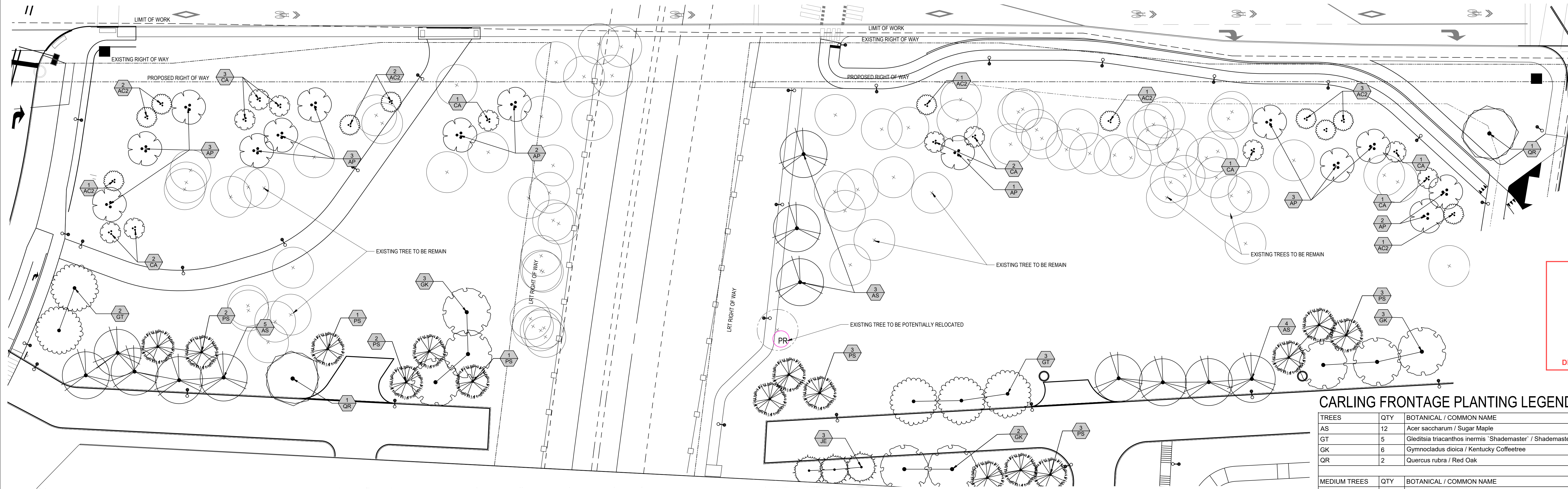
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**GROUND PLANE OVERSTORY PLANTING PLAN**

SCALE: 1:400

0 METERS 25 METERS 50 METERS 100 METERS





**APPROVED**  
By Lily Xu at 5:07 pm, Sep 12, 2022

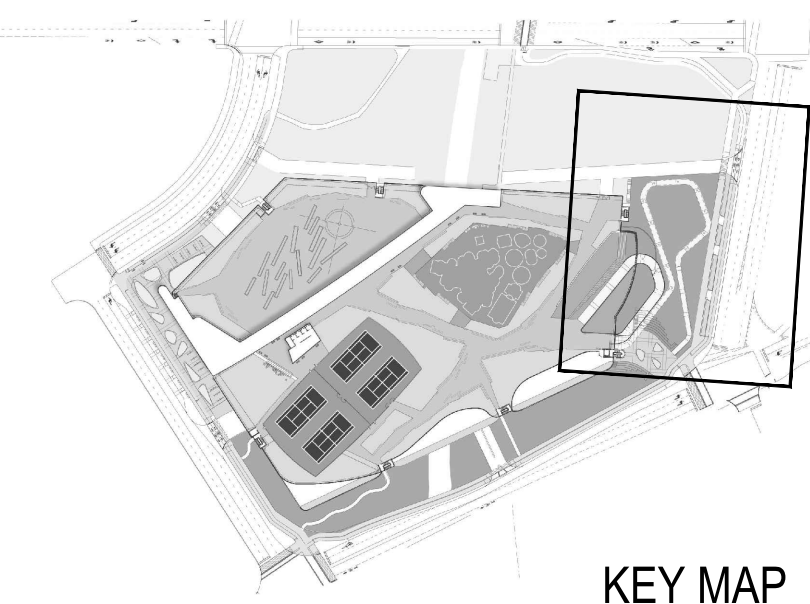
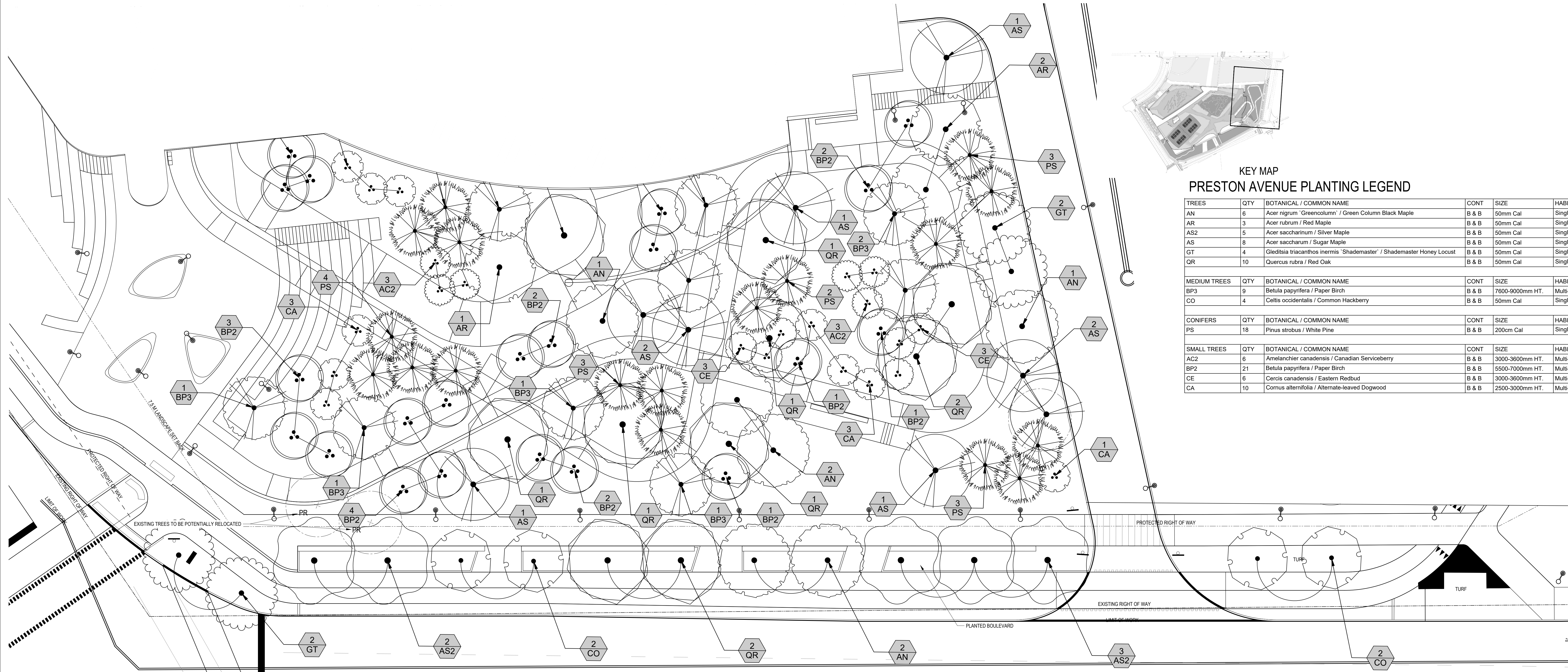
*Lily Xu*  
**LILY XU, MCIP, RPP**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**CARLING FRONTAGE PLANTING LEGEND**

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AS	12	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem
GT	5	Gleditsia triacanthos inermis / Shademaster / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
GK	6	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem
QR	2	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AP	14	Acer pensylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
PS	12	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem

CARLING FRONTAGE LANDSCAPE ENLARGEMENT

SCALE: 1:250



**PRESTON AVENUE PLANTING LEGEND**

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AN	6	Acer nigrum 'Greencolumn' / Green Column Black Maple	B & B	50mm Cal	Single Stem
AR	3	Acer rubrum / Red Maple	B & B	50mm Cal	Single Stem
AS2	5	Acer saccharinum / Silver Maple	B & B	50mm Cal	Single Stem
AS	8	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem
GT	4	Gleditsia triacanthos inermis / Shademaster / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
QR	10	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
BP3	9	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem
CO	4	Celtis occidentalis / Common Hackberry	B & B	50mm Cal	Single Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
PS	18	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem
SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AC2	6	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem
BP2	21	Betula papyrifera / Paper Birch	B & B	5500-7000mm HT.	Multi-Stem
CE	6	Cercis canadensis / Eastern Redbud	B & B	3000-3600mm HT.	Multi-Stem
CA	10	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem

PRESTON AVE LANDSCAPE ENLARGEMENT

SCALE: 1:150

**The Ottawa Hospital  
New Civic Development  
Parking Garage**

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
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Sheet Reviewer: \_\_\_\_\_ Author: \_\_\_\_\_

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Project Number: 10305722  
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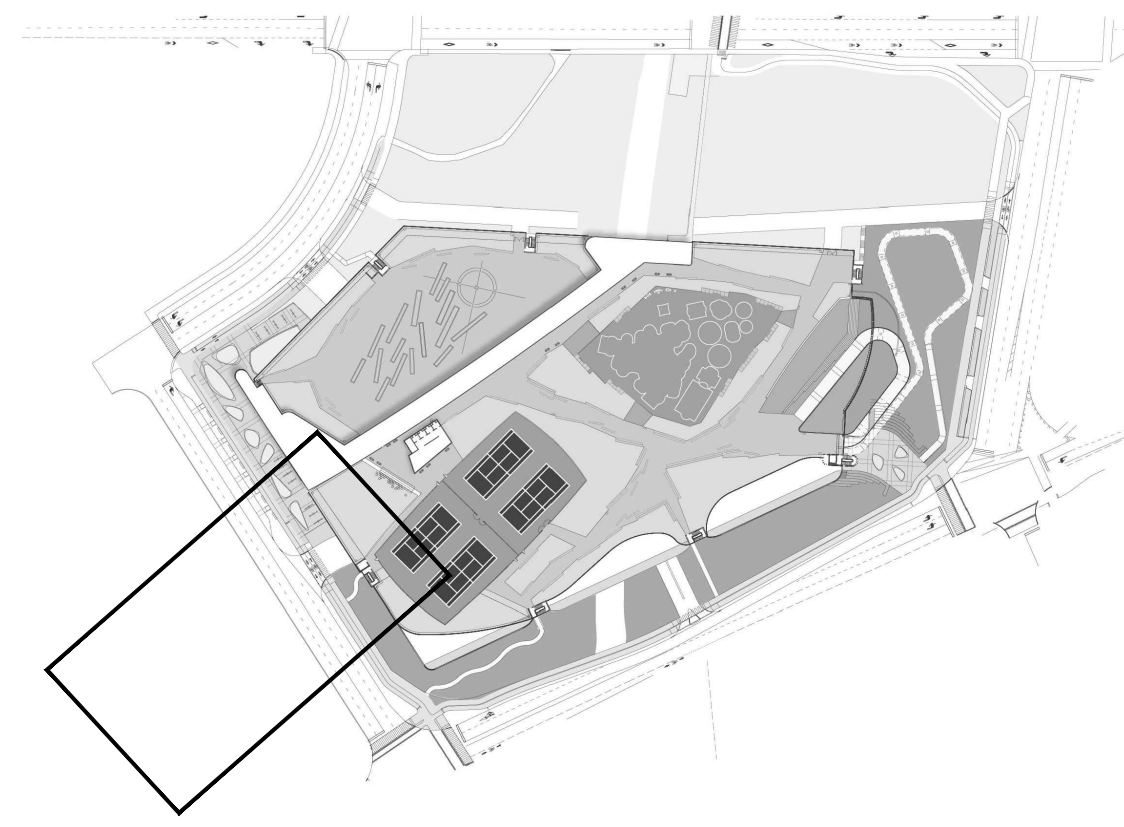
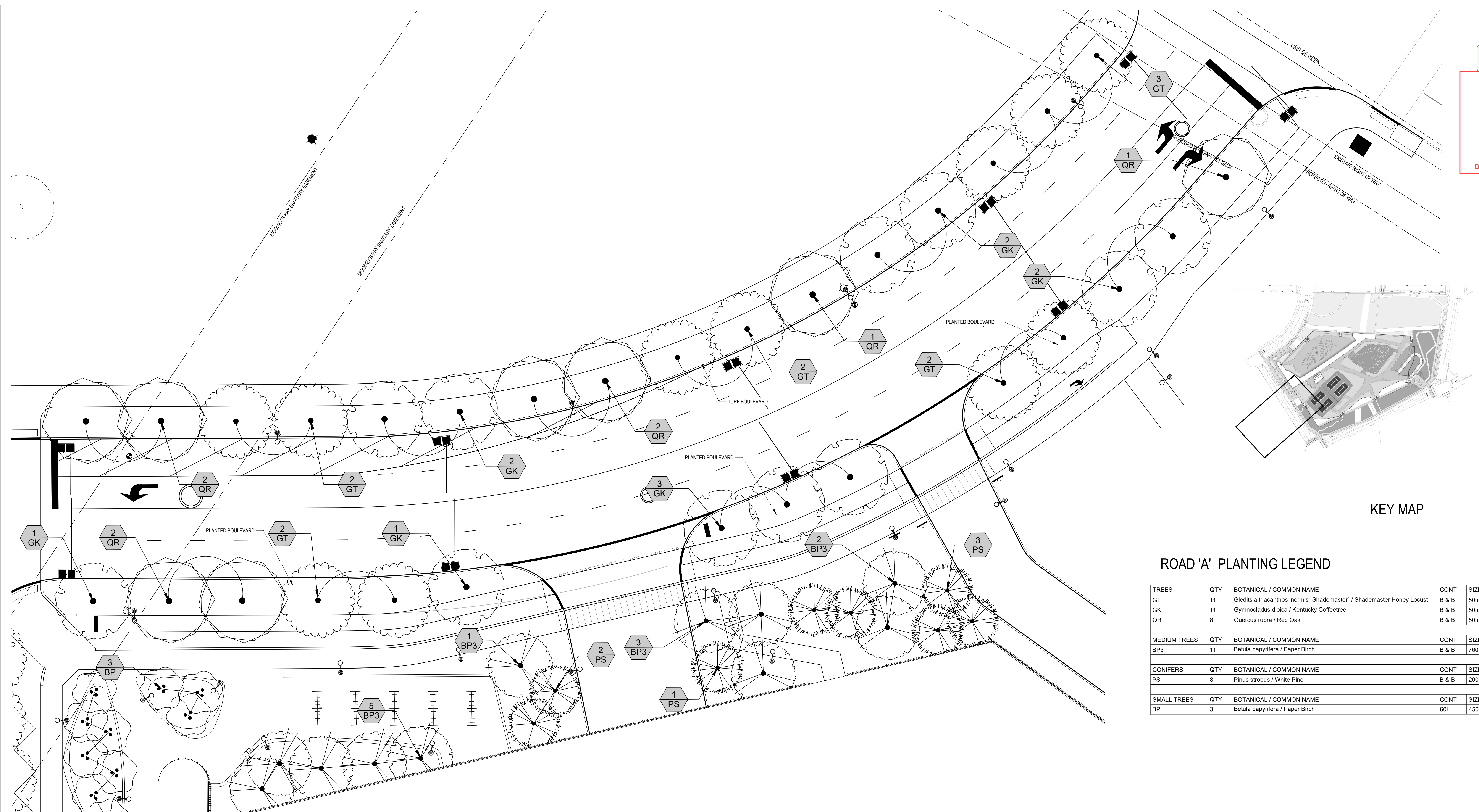
**PUBLIC REALM GROUND  
PLANE OVERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS**

Sheet Number: **LP-102**  
Progress Submission



APPROVED  
By Lily Xu at 5:07 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

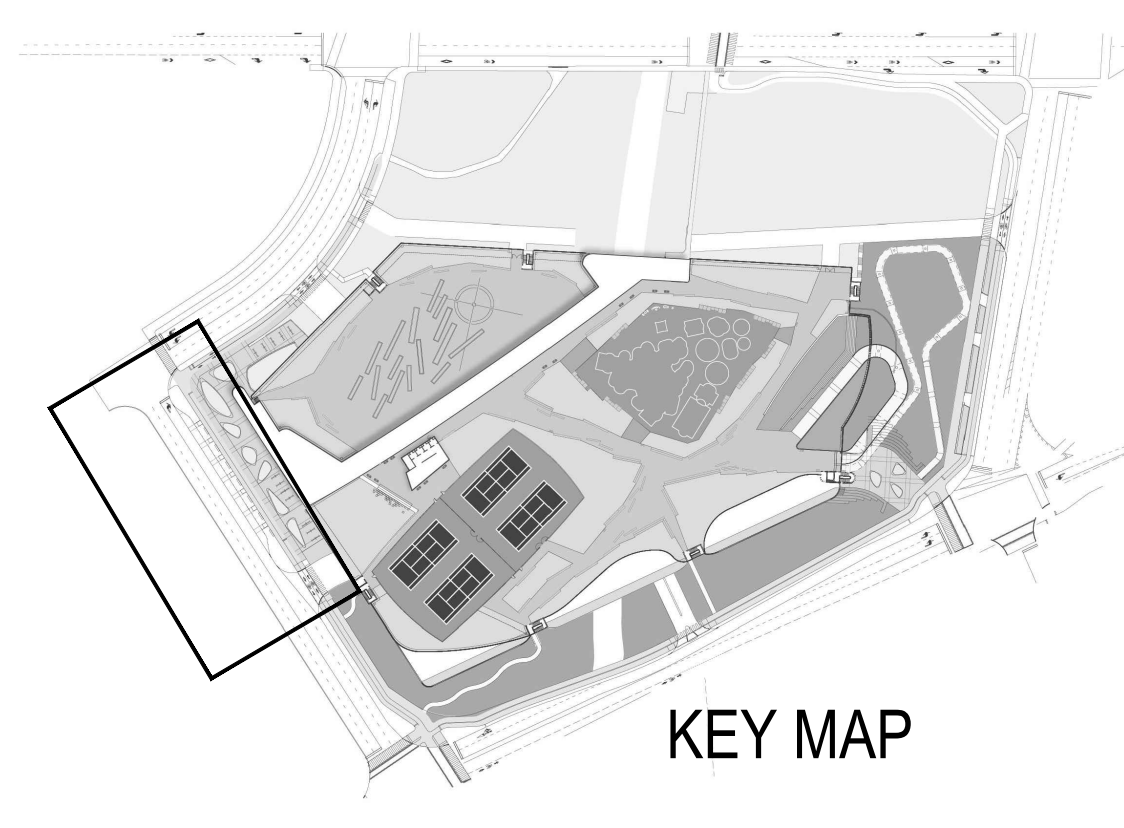
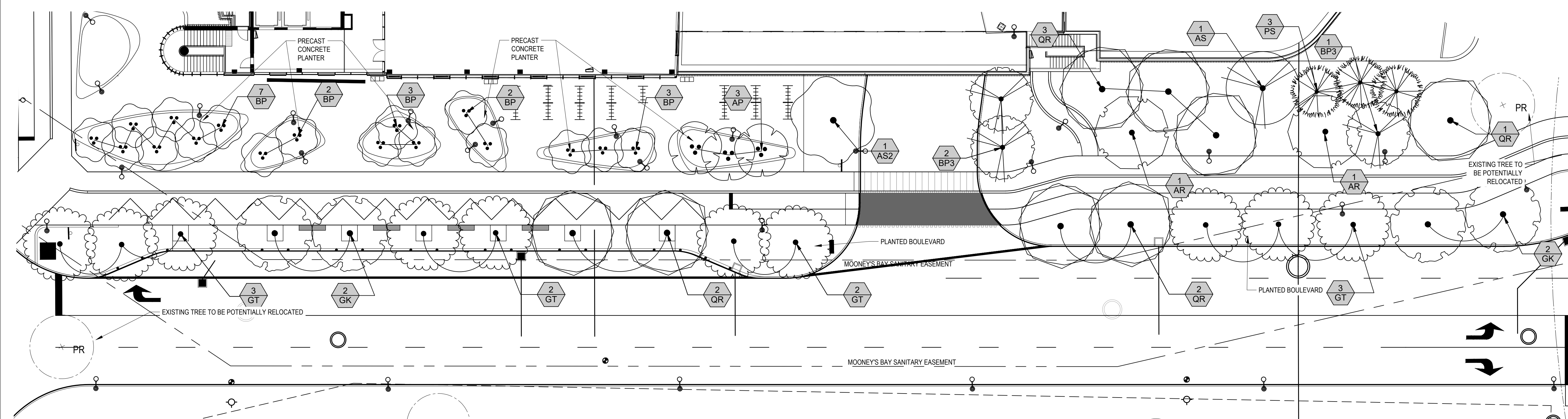


ROAD 'A' PLANTING LEGEND

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
GT	11	Gleditsia triacanthos inermis / Shademaster <sup>®</sup> / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
GK	11	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem
QR	8	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
BP3	11	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
PS	8	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem
SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
BP	3	Betula papyrifera / Paper Birch	60L	4500-5500mm HT.	Multi-Stem

ROAD A LANDSCAPE ENLARGEMENT

SCALE: 1:150



ROAD 'B' PLANTING LEGEND

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AR	2	Acer rubrum / Red Maple	B & B	50mm Cal	Single Stem
AS2	1	Acer saccharinum / Silver Maple	B & B	50mm Cal	Single Stem
AS	1	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem
GT	10	Gleditsia triacanthos inermis / Shademaster <sup>®</sup> / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
GK	4	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem
QR	8	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AP	3	Acer pensylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem
BP3	3	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
PS	3	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem
SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
BP	17	Betula papyrifera / Paper Birch	60L	4500-5500mm HT.	Multi-Stem

ROAD B LANDSCAPE ENLARGEMENT

SCALE: 1:200

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



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Project Designer	Jessie Emery Green
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Project Number: 10305722  
Original Issue: September 2021



PUBLIC REALM GROUND  
PLANE OVERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS

Sheet Name:  
**LP-103**  
Progress Submission

8/27/2021 4:08:52 PM B:\1360\1303022\_T01\NCD Parking Garage\_2021\T01\NCD Parking Garage.rvt

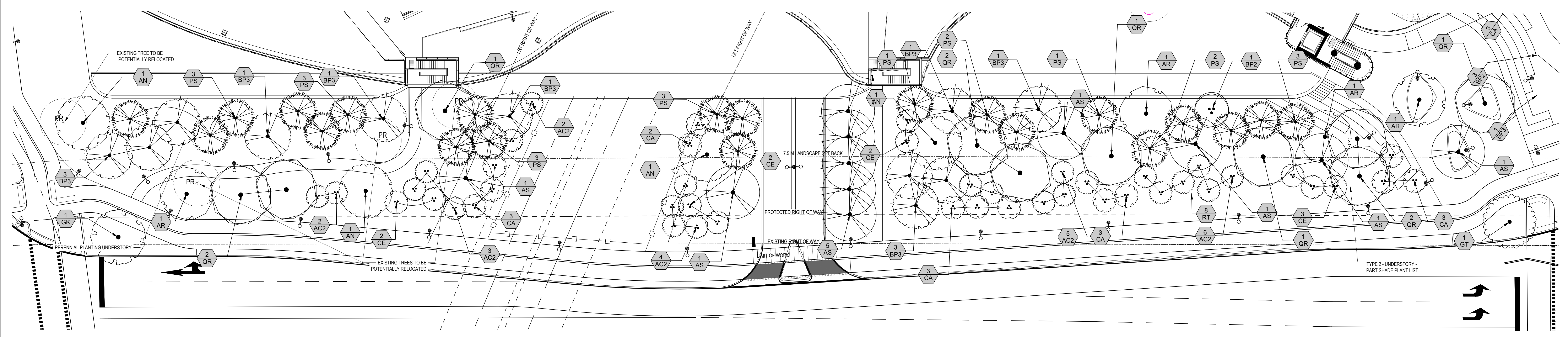


APPROVED  
By Lily Xu at 5:07 pm, Sep 12, 2022

*Lily Xu*  
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MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



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

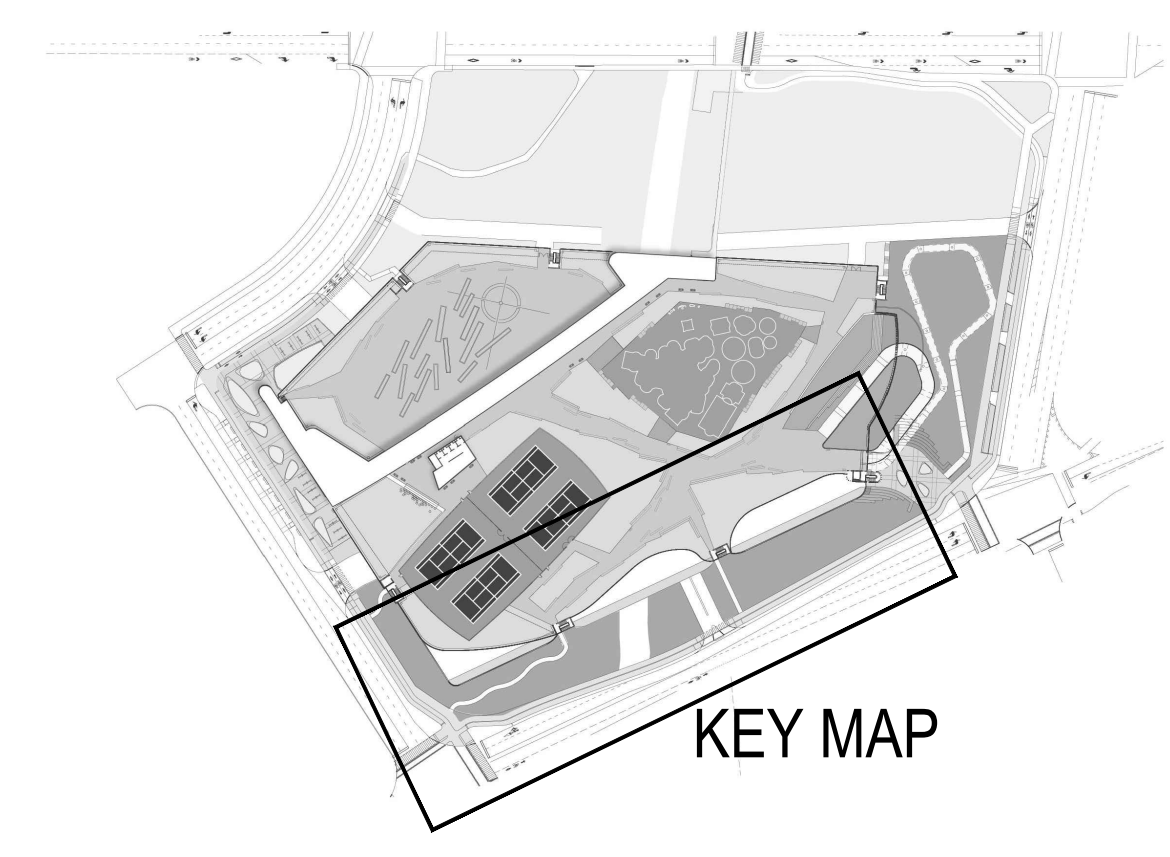


PRINCE OF WALES LANDSCAPE ENLARGEMENT

SCALE: 1:200

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



PRINCE OF WALES PLANTING LEGEND

TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AN	4	Acer nigrum / Green Column Black Maple	B & B	50mm Cal	Single Stem
AR	4	Acer rubrum / Red Maple	B & B	50mm Cal	Single Stem
AS	11	Acer saccharum / Sugar Maple	B & B	50mm Cal	Single Stem
GT	1	Gleditsia triacanthos inermis 'Shademaster' / Shademaster Honey Locust	B & B	50mm Cal	Single Stem
GK	1	Gymnocladus dioica / Kentucky Coffeetree	B & B	50mm Cal	Single Stem
QR	10	Quercus rubra / Red Oak	B & B	50mm Cal	Single Stem
MEDIUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
BP3	11	Betula papyrifera / Paper Birch	B & B	7600-9000mm HT.	Multi-Stem
CONIFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
PS	21	Pinus strobus / White Pine	B & B	200cm Cal	Single Stem
SMALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
AC2	22	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem
BP2	1	Betula papyrifera / Paper Birch	B & B	5500-7000mm HT.	Multi-Stem
CE	9	Cercis canadensis / Eastern Redbud	B & B	3000-3600mm HT.	Multi-Stem
CA	14	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem

Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Jeff Fels  
Landscape Architect: Civil Engineer  
Civil Engineer: LEA Engineering  
Structural Engineer: Smith + Andersen  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Equipment Planner  
Interior Designer: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR NCC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TON DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



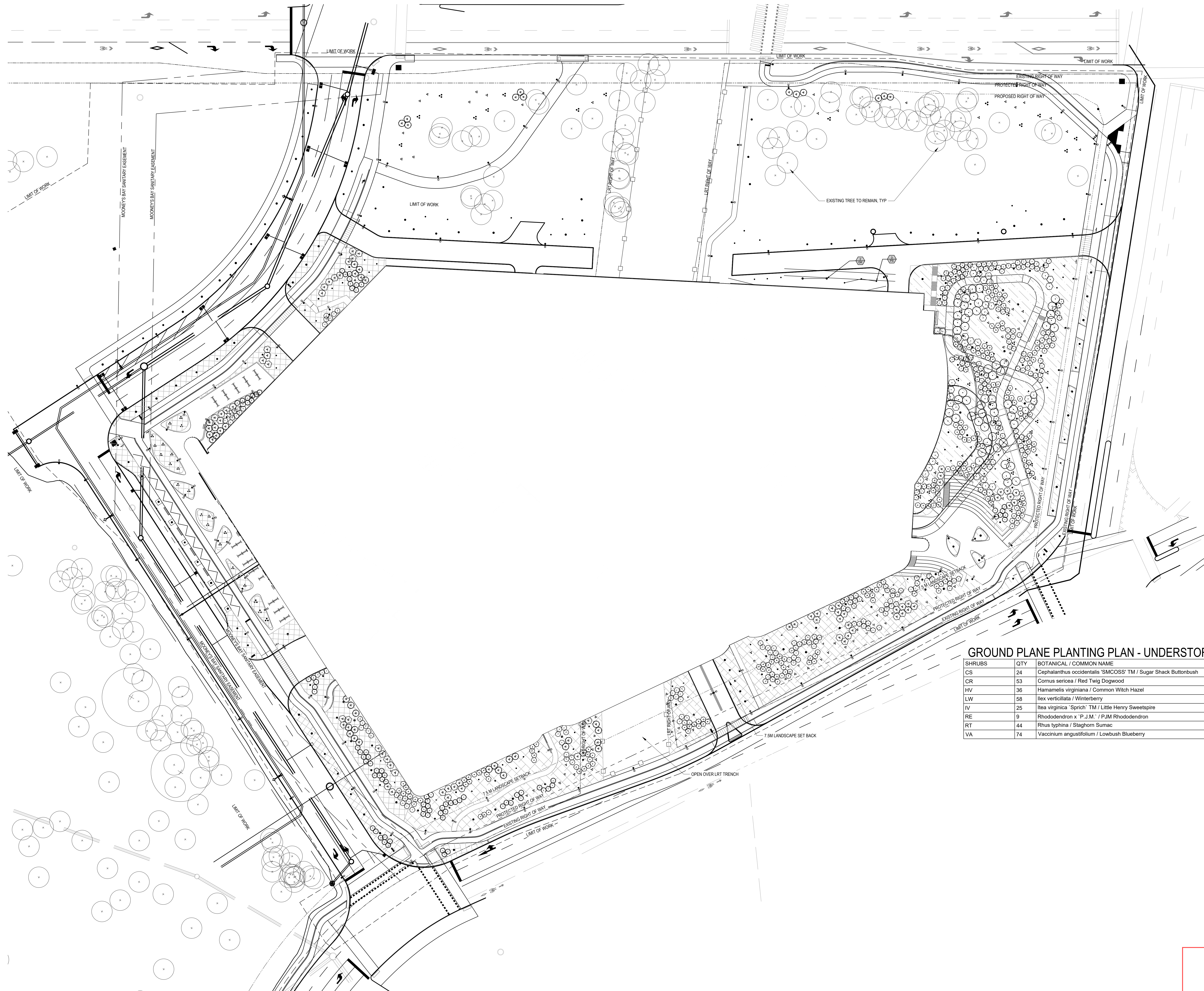
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PUBLIC REALM GROUND  
PLANE OVERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS

Sheet Number:  
**LP-104**

Project Status:  
Progress Submission



10	2022-06-03	ISSUED FOR SPC APPROVAL
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01	2021-06-18	ISSUED FOR SD SUBMISSION



**GROUND PLANE PLANTING PLAN - UNDERSTORY**

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT
CS	24	Cephalanthus occidentalis 'SMCOSS' TM / Sugar Shack Buttonbush	5 Gal	900-1200mm HT.	
CR	53	Cornus sericea / Red Twig Dogwood	3 Gal	450-600mm HT.	
HV	36	Hamamelis virginiana / Common Witch Hazel	5 Gal	900-1200mm HT.	
LW	58	Ilex verticillata / Winterberry	3 Gal	450-600mm HT.	
IV	25	Itea virginica 'Sprich' TM / Little Henry Sweetspire	5 Gal	450-600mm HT.	
RE	9	Rhododendron x 'P.J.M.' / P.J.M. Rhododendron	5 Gal	450-600mm HT.	
RT	44	Rhus typhina / Staghorn Sumac	3 Gal	450-600mm HT.	
VA	74	Vaccinium angustifolium / Lowbush Blueberry	3 Gal	450-600mm HT.	

**APPROVED**  
By Lily Xu at 5:07 pm, Sep 12, 2022

*Lily Xu*  
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MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

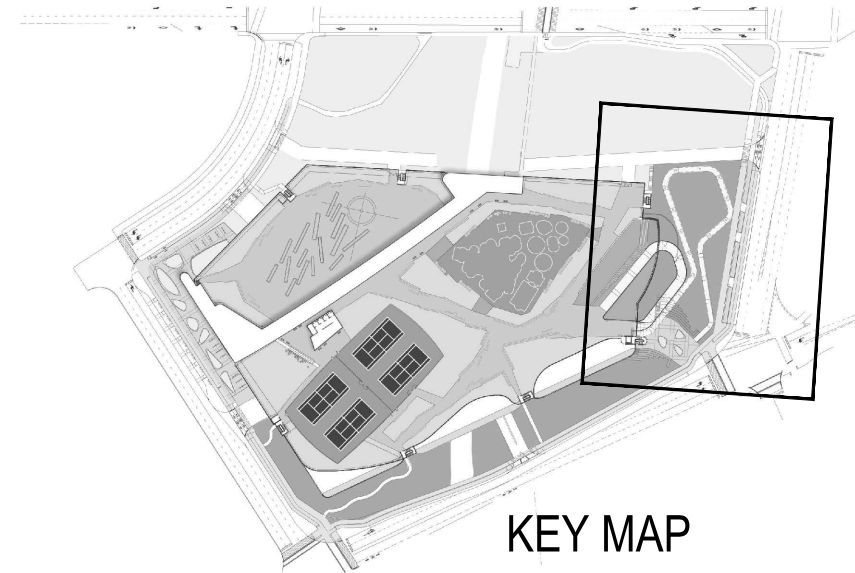




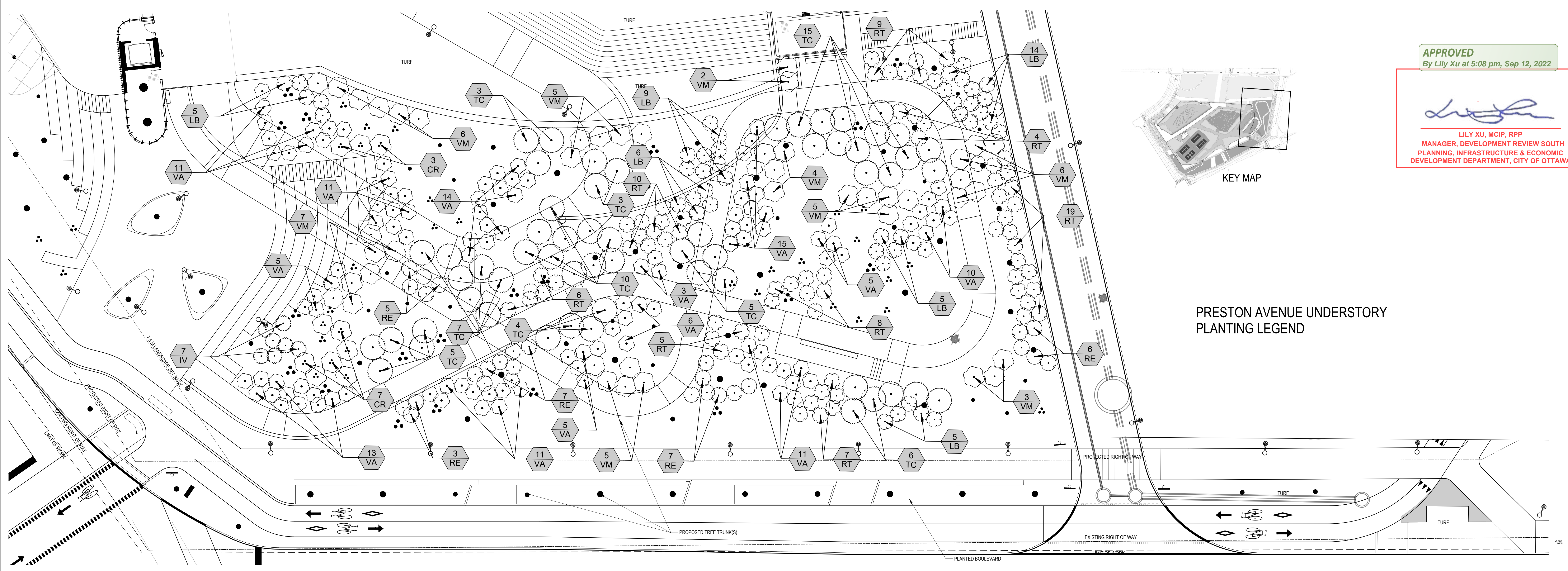
HDR Architecture Associates Inc.  
300 Richmond Road, Suite  
200  
Ottawa, Ontario K1Z 6X6

APPROVED  
By Lily Xu at 5:08 pm, Sep 12, 2022

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PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

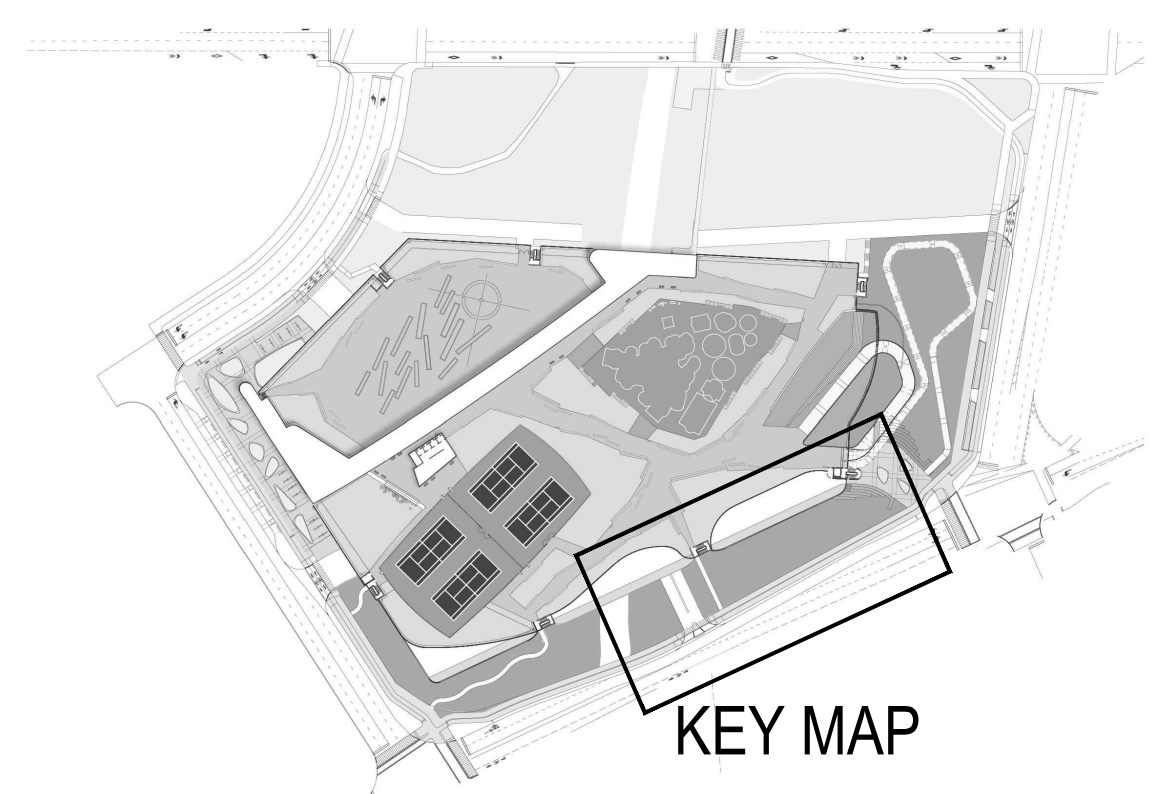


### PRESTON AVENUE UNDERSTORY PLANTING LEGEND



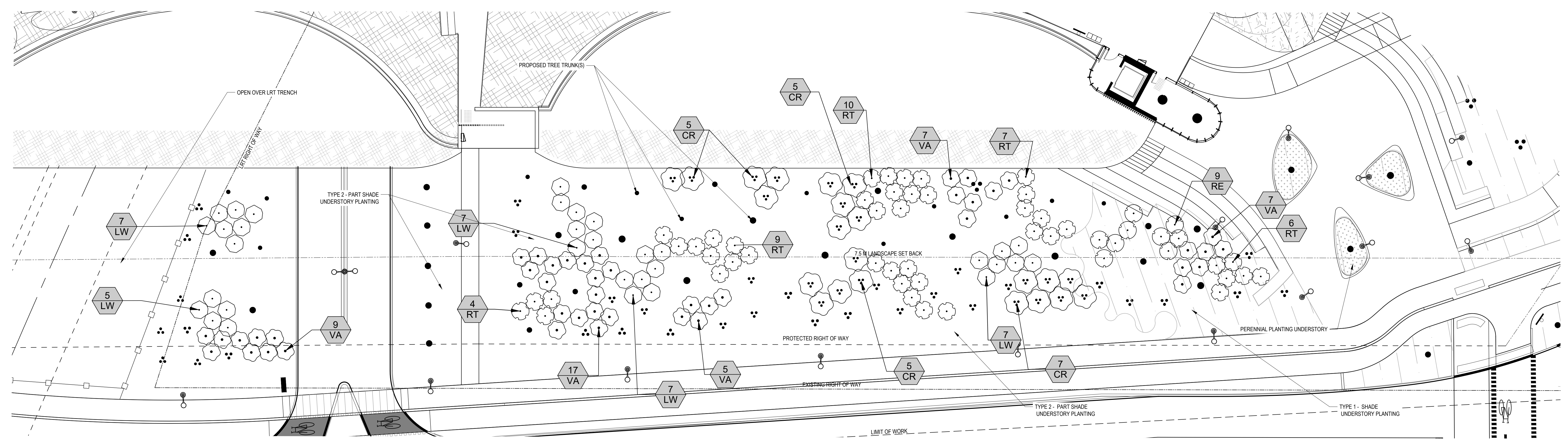
PRESTON AVE LANDSCAPE ENLARGEMENT - UNDERSTORY

SCALE: 1:150



### PRINCE OF WALES UNDERSTORY PLANTING LEGEND

CS	24	Cephalanthus occidentalis 'SMCOSS' TM / Sugar Shack Buttonbush	5 Gal	900-1200mm HT.			
CR	32	Cornus sericea / Red Twig Dogwood	3 Gal	450-600mm HT.			
LV	12	Hamelis virginiana / Common Witch Hazel	5 Gal	900-1200mm HT.			
LW	43	Ilex verticillata / Winterberry	5 Gal	450-600mm HT.			
IV	8	Itea virginica 'Sprich' TM / Little Henry Sweetspire	5 Gal	450-600mm HT.			
RE	9	Rhododendron x 'P.J.M.' / P.J.M. Rhododendron	5 Gal	450-600mm HT.			
RT	44	Rhus typhina / Staghorn Sumac	3 Gal	450-600mm HT.			
VA	74	Vaccinium angustifolium / Lowbush Blueberry	3 Gal	450-600mm HT.			



PRINCE OF WALES LANDSCAPE ENLARGEMENT - UNDERSTORY

SCALE: 1:150

### The Ottawa Hospital New Civic Development Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9

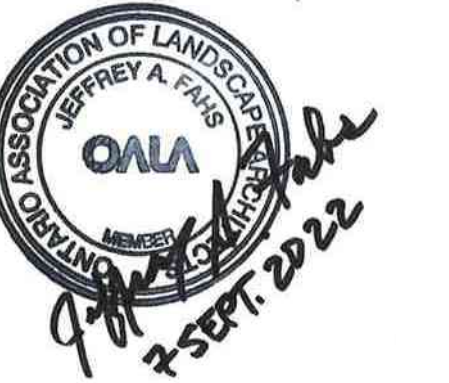


Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Equipment Planner
Equipment Planner	Wayfinding
Wayfinding	HDR

Sheet Reviewer: Author

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



### PUBLIC REALM GROUND PLANE UNDERSTORY LANDSCAPE PLANTING LANDSCAPE ENLARGEMENTS

Sheet Number:  
**LP-202**

Project Status:  
Progress Submission

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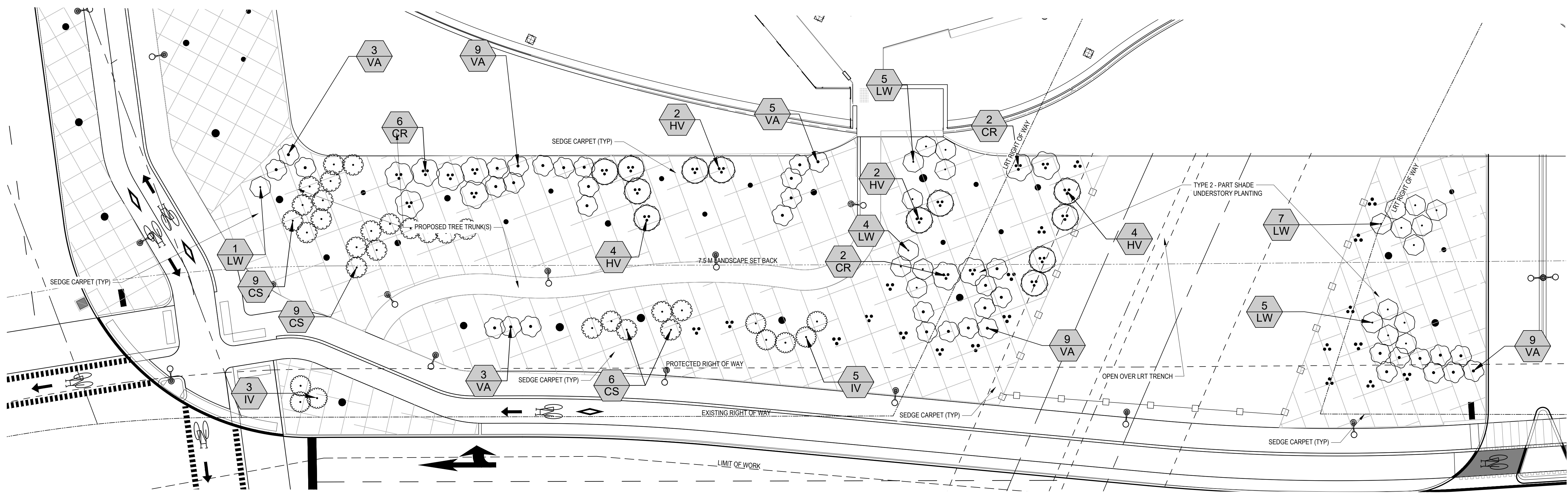


PRINCE OF WALES UNDERSTORY  
PLANTING LEGEND

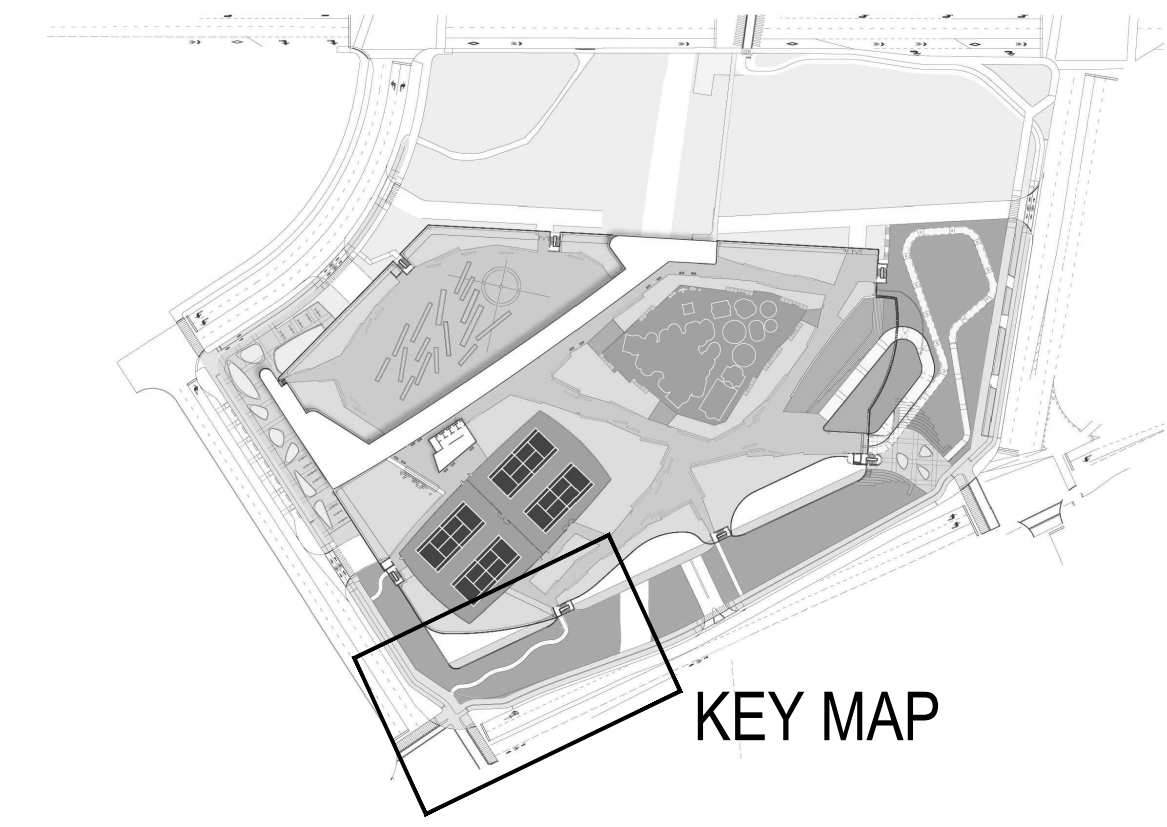
CS	24	Cephalanthus occidentalis 'SMCOSS' TM / Sugar Shack Buttonbush	5 Gal	900-1200mm HT.		
CR	32	Cornus sericea / Red Twig Dogwood	3 Gal	450-600mm HT.		
HV	12	Hammamelis virginiana / Common Witch Hazel	5 Gal	900-1200mm HT.		
LW	43	Ilex verticillata / Winterberry	3 Gal	450-600mm HT.		
IV	8	Itea virginica 'Sprich' TM / Little Henry Sweetspire	5 Gal	450-600mm HT.		
RE	9	Rhododendron x 'P.J.M.' / P.J.M Rhododendron	5 Gal	450-600mm HT.		
RT	44	Rhus typhina / Staghorn Sumac	3 Gal	450-600mm HT.		
VA	74	Vaccinium angustifolium / Lowbush Blueberry	3 Gal	450-600mm HT.		



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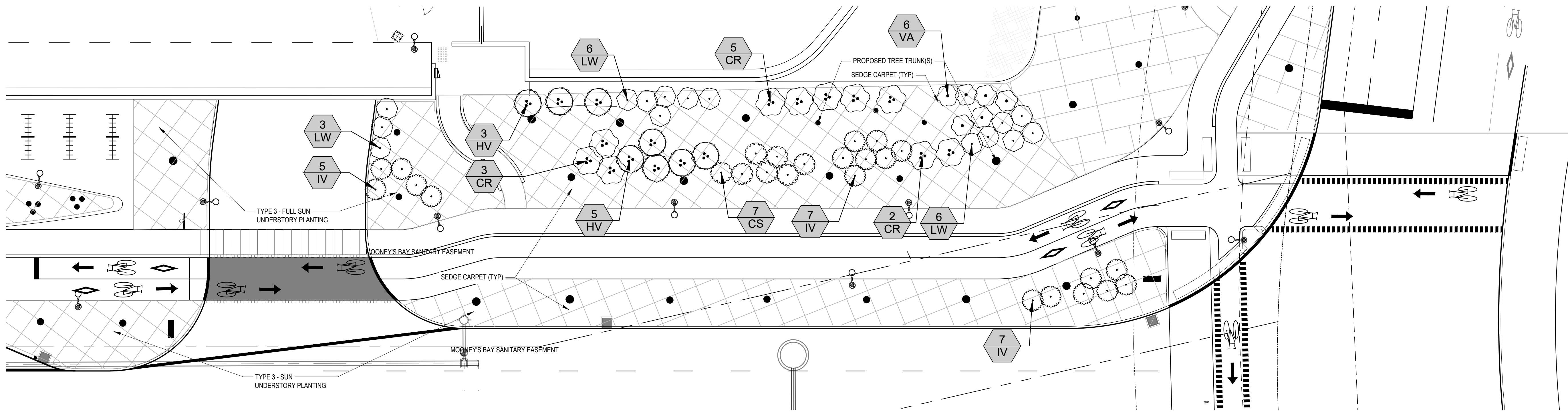


PRINCE OF WALES UNDERSTORY LANDSCAPE ENLARGEMENT

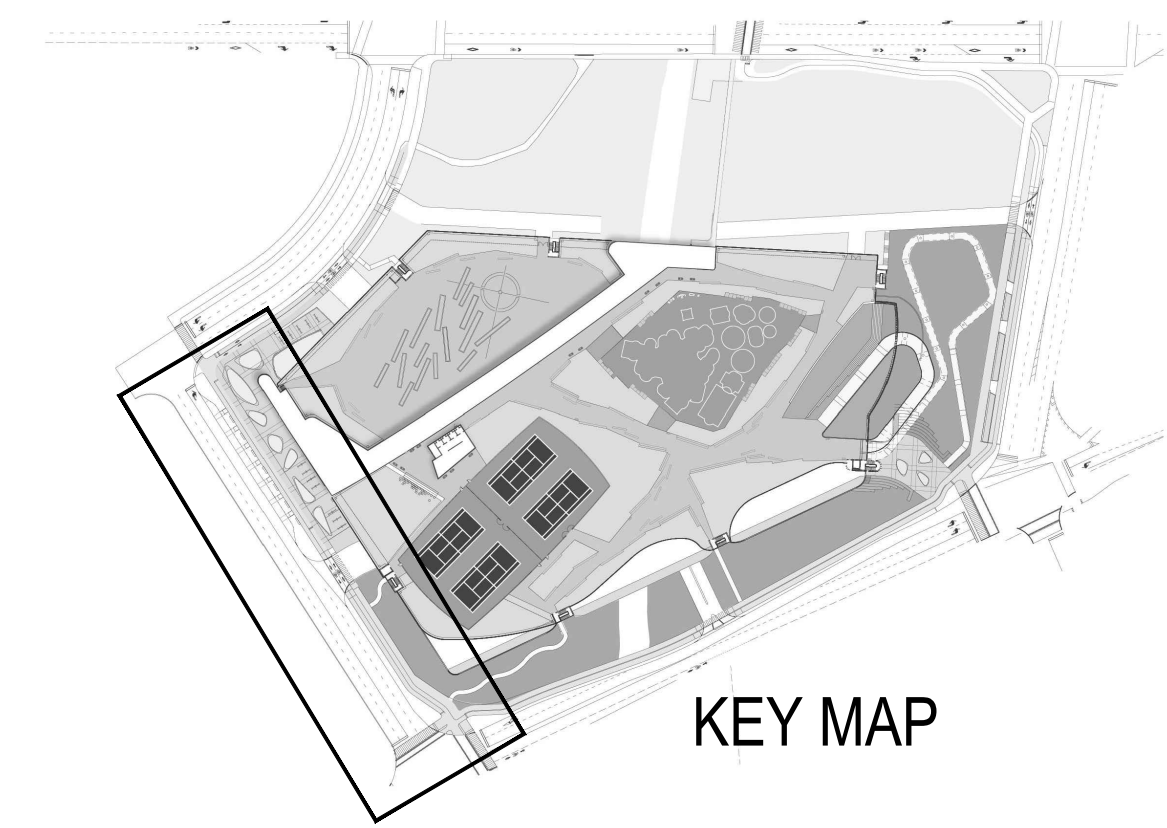


KEY MAP

SCALE: 1:150

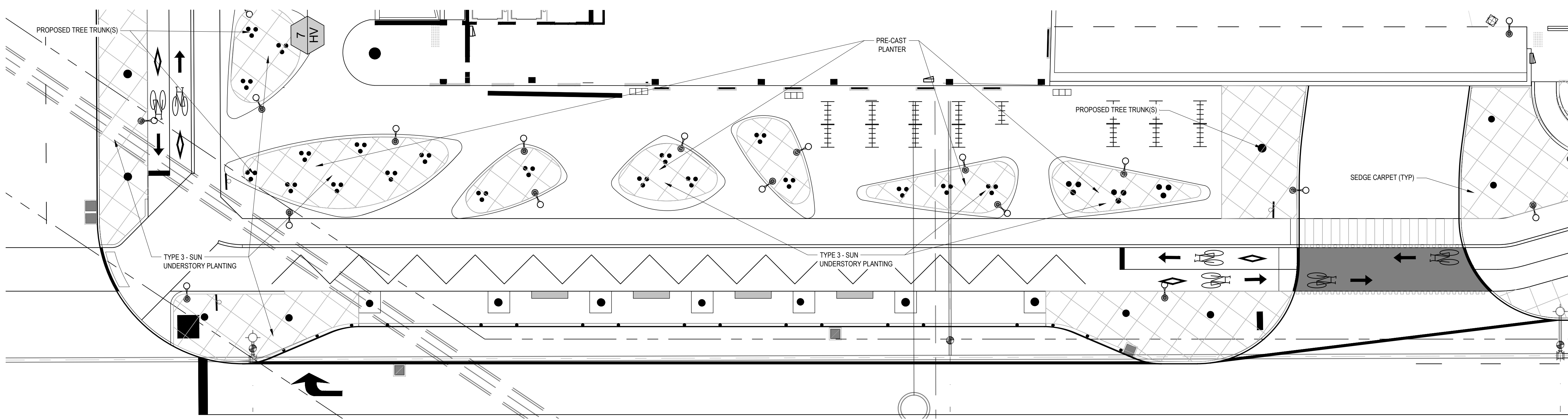


ROAD B UNDERSTORY LANDSCAPE ENLARGEMENT



KEY MAP

SCALE: 1:150



ROAD B UNDERSTORY LANDSCAPE ENLARGEMENT

ROAD B UNDERSTORY  
PLANTING LEGEND

SCALE: 1:150

APPROVED  
By Lily Xu at 5:08 pm, Sep 12, 2022

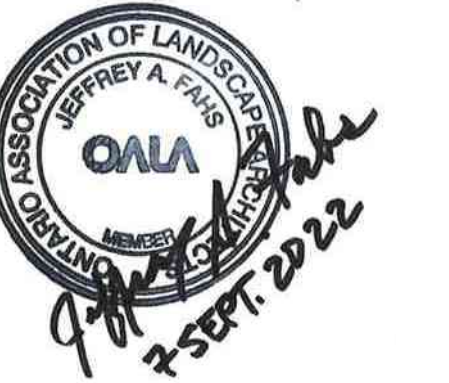
*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

Project Manager	Robert Malloy
Project Designer	Jessie Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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06	2022-02-28	ISSUED FOR 100% TDM DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
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03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 1030572  
Original Issue: September 2021



Sheet Name  
**PUBLIC REALM GROUND  
PLANE UNDERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS**

Sheet Number  
**LP-203**

Project Status  
Progress Submission

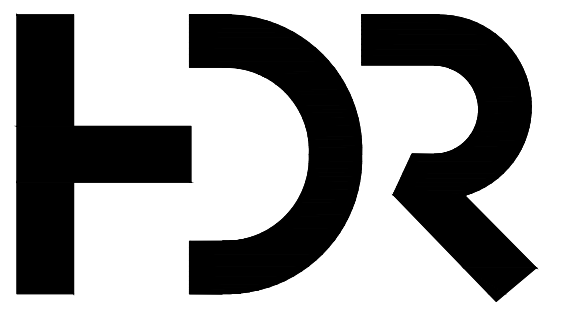
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APPROVED  
By Lily Xu at 5:08 pm, Sep 12, 2022



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PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



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The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager: Robert Malloy  
Project Designer: Jason Emery Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fahs  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021

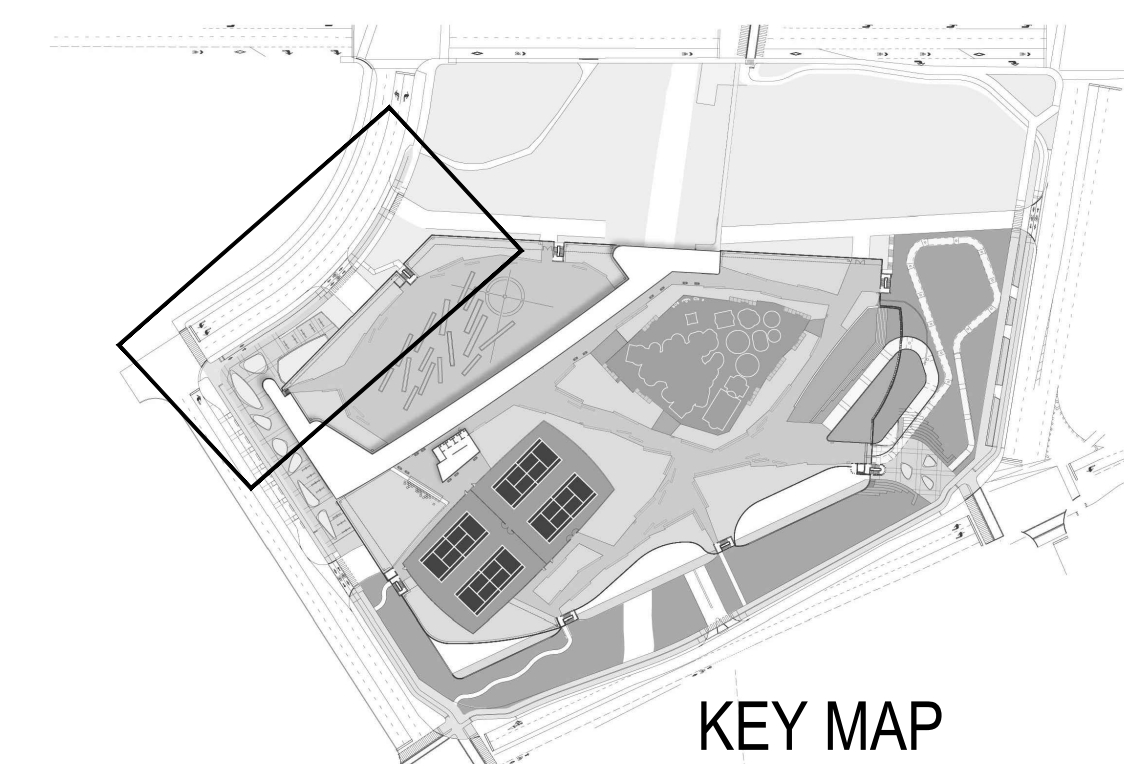
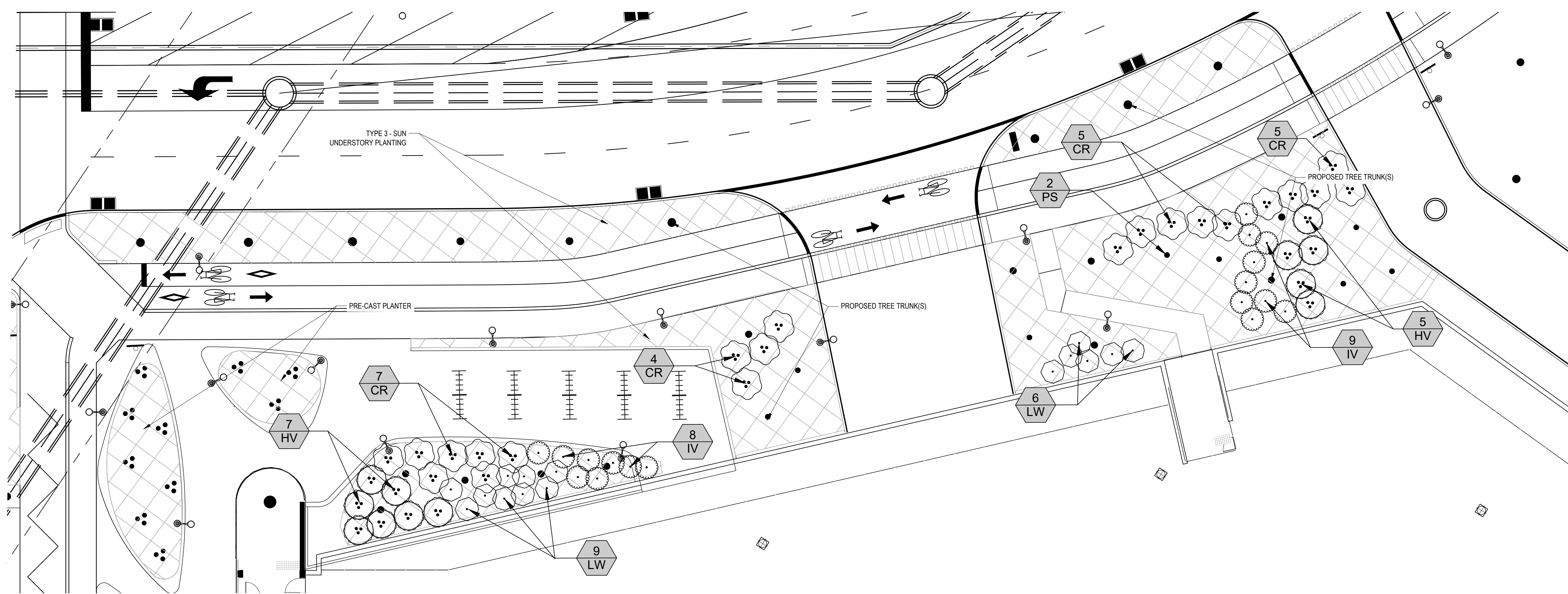


Sheet Name  
PUBLIC REALM GROUND  
PLANE UNDERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS

Sheet Number

LP-204

Project Status  
Progress Submission



ROAD 'A' UNDERSTORY  
PLANTING LEGEND

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REM.
CR	21	Cornus sericea / Red Twig Dogwood	3 Gal	450-600mm HT.		
HV	12	Hamamelis virginiana / Common Witch Hazel	5 Gal	900-1200mm HT.		
LW	15	Ilex verticillata / Winterberry	3 Gal	450-600mm HT.		
IV	17	Itea virginica 'Sprich' TM / Little Henry Sweetspire	5 Gal	450-600mm HT.		

ROAD A LANDSCAPE ENLARGEMENT - UNDERSTORY

SCALE: 1:150



APPROVED  
By Lily Xu at 5:09 pm, Sep 12, 2022

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MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



GREEN ROOF PLANTING PLAN - OVERSTORY

GREEN ROOF PLANTING LEGEND

EDUM TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
P	9	Acer pennsylvanicum / Striped Maple	B & B	3000-3600mm HT.	Multi-Stem	
T	22	Populus tremuloides / Quaking Aspen	B & B	4500-5500mm HT.	Multi-Stem	
ONFERS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
E	28	Juniperus virginiana / Eastern Redcedar	B & B	200cm Cal	Single Stem	
G	12	Picea glauca / White Spruce	B & B	200cm Cal	Single Stem	Mixed, 5 gal to 6'
MALL TREES	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
C2	48	Amelanchier canadensis / Canadian Serviceberry	B & B	3000-3600mm HT.	Multi-Stem	
P2	120	Rubus saxifraga / Paper Birch	B & B	5000-7000mm HT.	Multi-Stem	
A	12	Cornus alternifolia / Alternate-leaved Dogwood	B & B	2500-3000mm HT.	Multi-Stem	
HRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	HABIT	REMARKS
IS	731	Mullein / Blackfoot	3 Gal	450-600mm HT.		
C	35	Taxus canadensis / Canadian Yew	3 Gal	450-600mm HT.		

SCALE: 1:250

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
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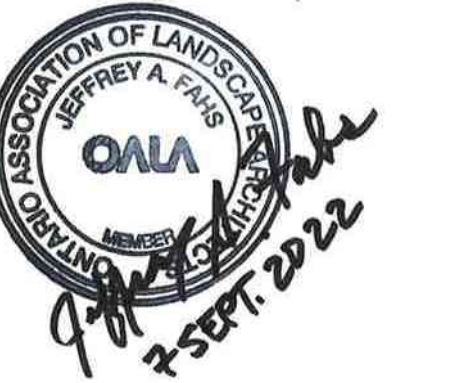
Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Feltz
Civil Engineer	Carl Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



GREEN ROOF  
OVERSTORY  
PLANTING PLAN

Sheet Number  
**LP-301**  
Progress Submission







APPROVED  
By Lily Xu at 5:09 pm, Sep 12, 2022

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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



GREEN ROOF PLANTING PLAN - UNDERSTORY

GREEN ROOF UNDERSTORY PLANTING LEGEND

SYMBOL	QTY	BOTANICAL / COMMON NAME	COUNT	SIZE	HABIT	REMARKS
MS	731	Matteuccia struthiopteris / Ostrich Fern	3 Gal	450-600mm HT		
TC	25	Taxus canadensis / Canadian Yew	3 Gal	450-600mm HT		

GROUND COVER SCHEDULE

SPRING EPHEMERAL LAYER

- Asarum canadense / Wild Ginger
- Maianthemum canadense / Canada mayflower
- Tiarella (sp) / Foamflower
- Anemone canadensis / Canada anemone
- Phlox divaricate / Wild Blue Phlox

SEDGE CARPET

- Carex brevius / Plains Oval Sedge
- Carex rosea / Rosy Sedge
- Carex aurea / Golden Sedge
- Deschampsia cespitosa / Tufted Hairgrass
- Arctostaphylos uva-ursi / Bearberry

MIXED FERNS

- Matteuccia struthiopteris / Ostrich Fern
- Athyrium filix-femina / Lady Fern

SCALE: 1:250

The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



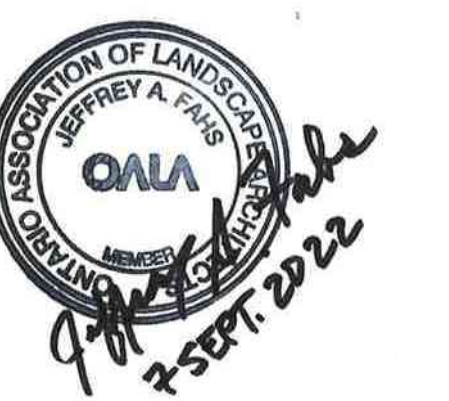
Project Manager	Robert Malloy
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Project Architect	Project Architect
Landscape Architect	Jeff Fahn
Civil Engineer	Civil Engineer
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Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

Sheet Reviewer: Author

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01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



GREEN ROOF  
UNDERSTORY  
PLANTING PLAN

Sheet Number

LP-401

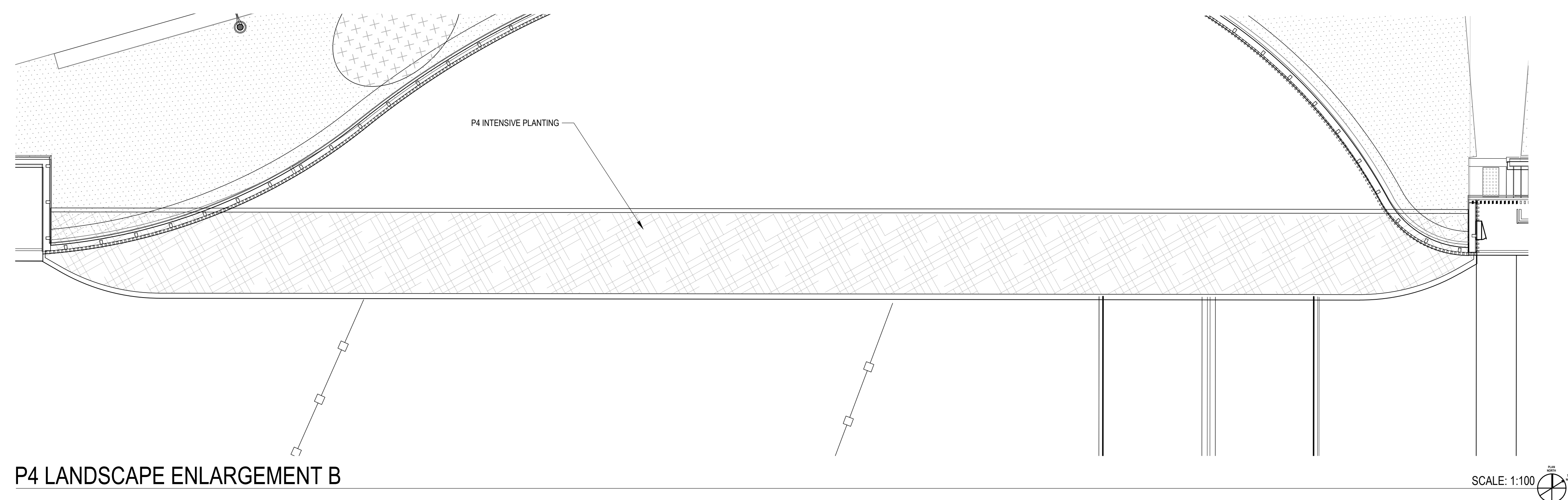
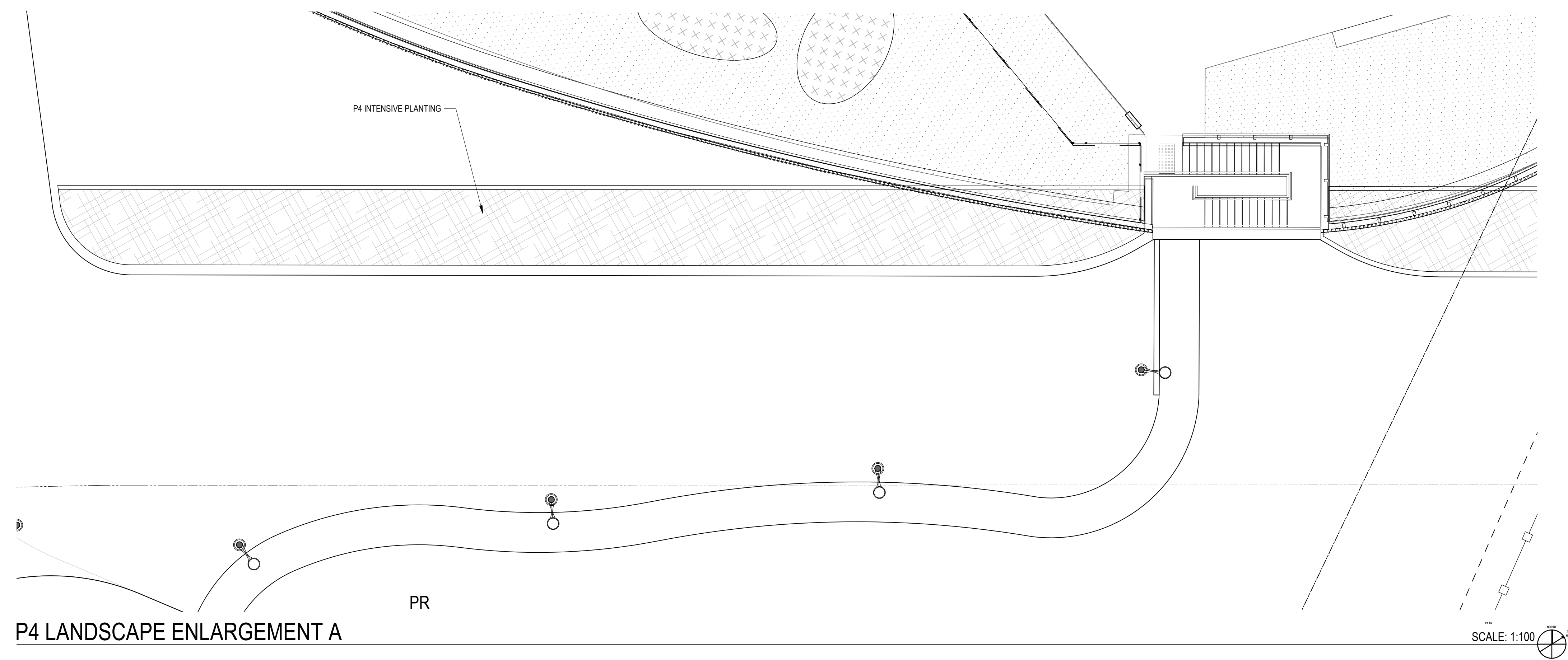
Project Status  
Progress Submission



APPROVED  
By Lily Xu at 5:09 pm, Sep 12, 2022

*Lily Xu*  
LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

P4 LEVEL PLANTING LEGEND



The Ottawa Hospital  
New Civic Development  
Parking Garage  
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Project Designer: Jason Emery-Green  
Project Architect: Project Architect  
Landscape Architect: Jeff Fink  
Civil Engineer: Civil Engineer  
Structural Engineer: LEA Engineering  
Mechanical Engineer: Smith + Andersen  
Electrical Engineer: Smith + Andersen  
Plumbing Engineer: Smith + Andersen  
Interior Designer: Interior Designer  
Equipment Planner: Equipment Planner  
Wayfinding: HDR

Sheet Reviewer: Author

MARK DATE DESCRIPTION

10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR NCC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TON DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-06-18	ISSUED FOR SD SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**P4 UNDERSTORY  
LANDSCAPE PLANTING  
PLAN ENLARGEMENTS**

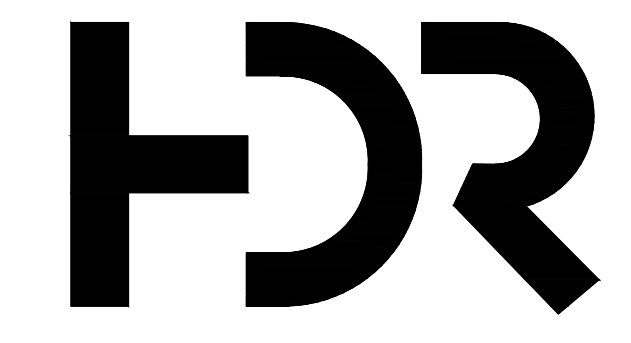
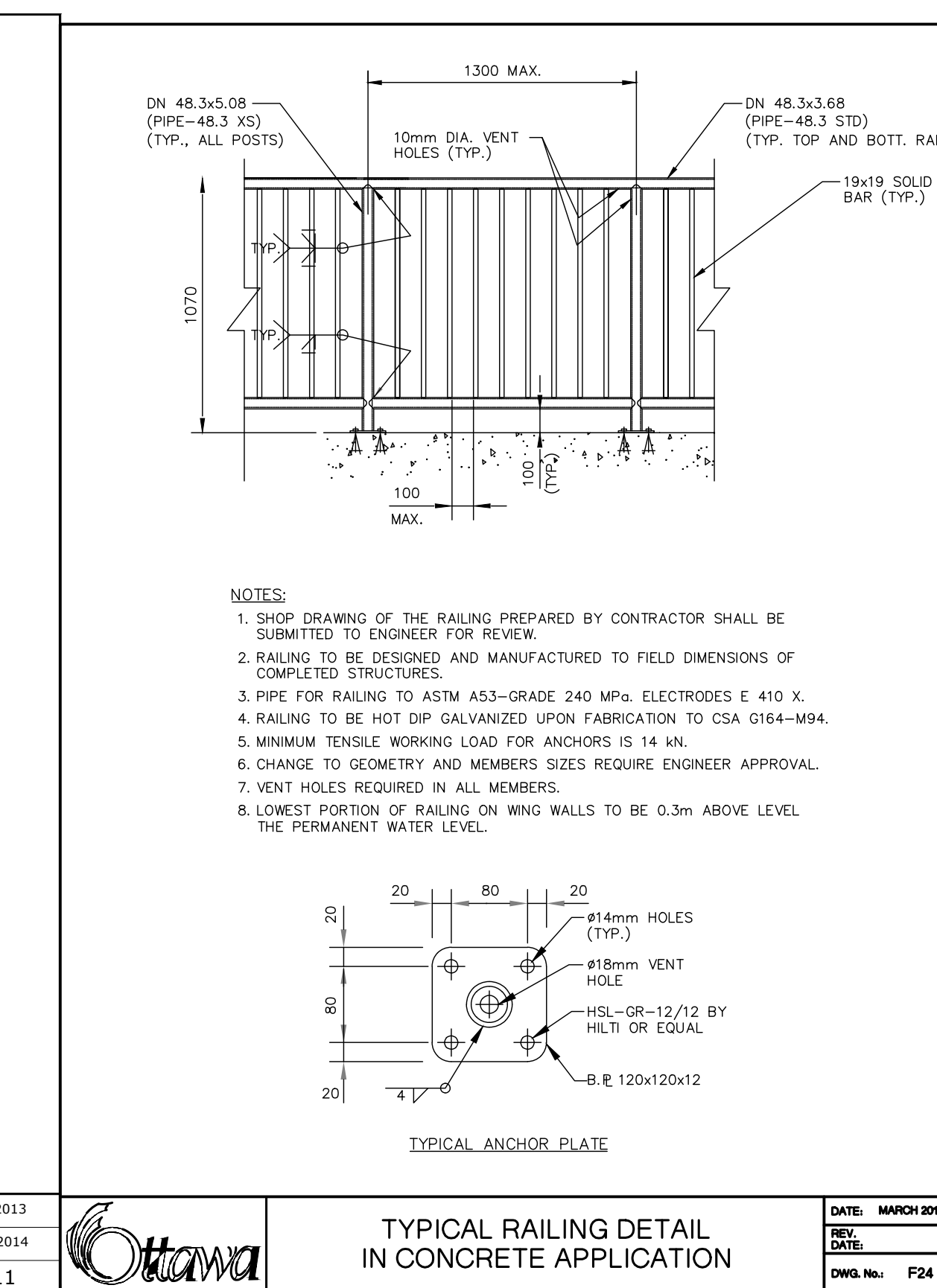
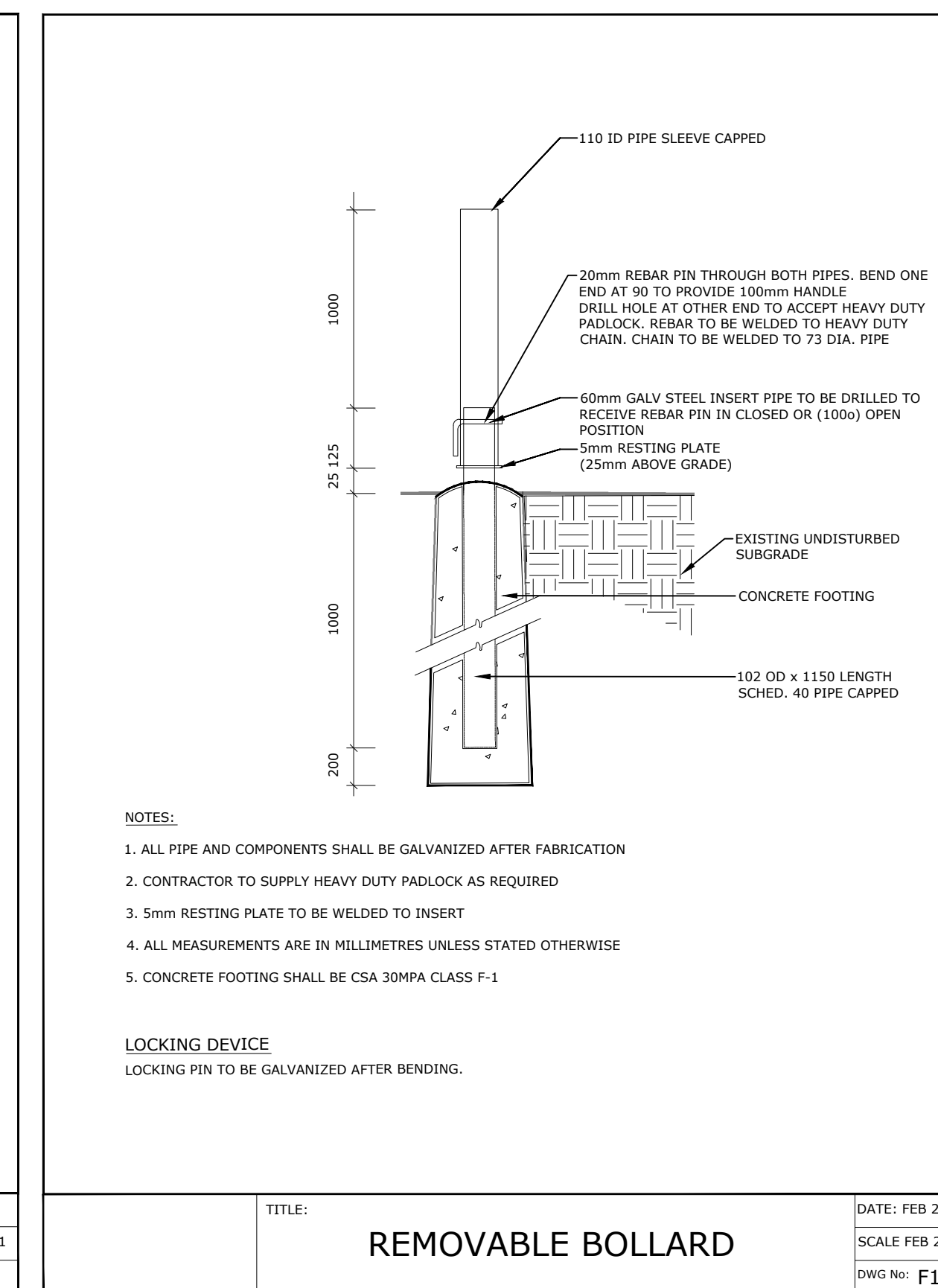
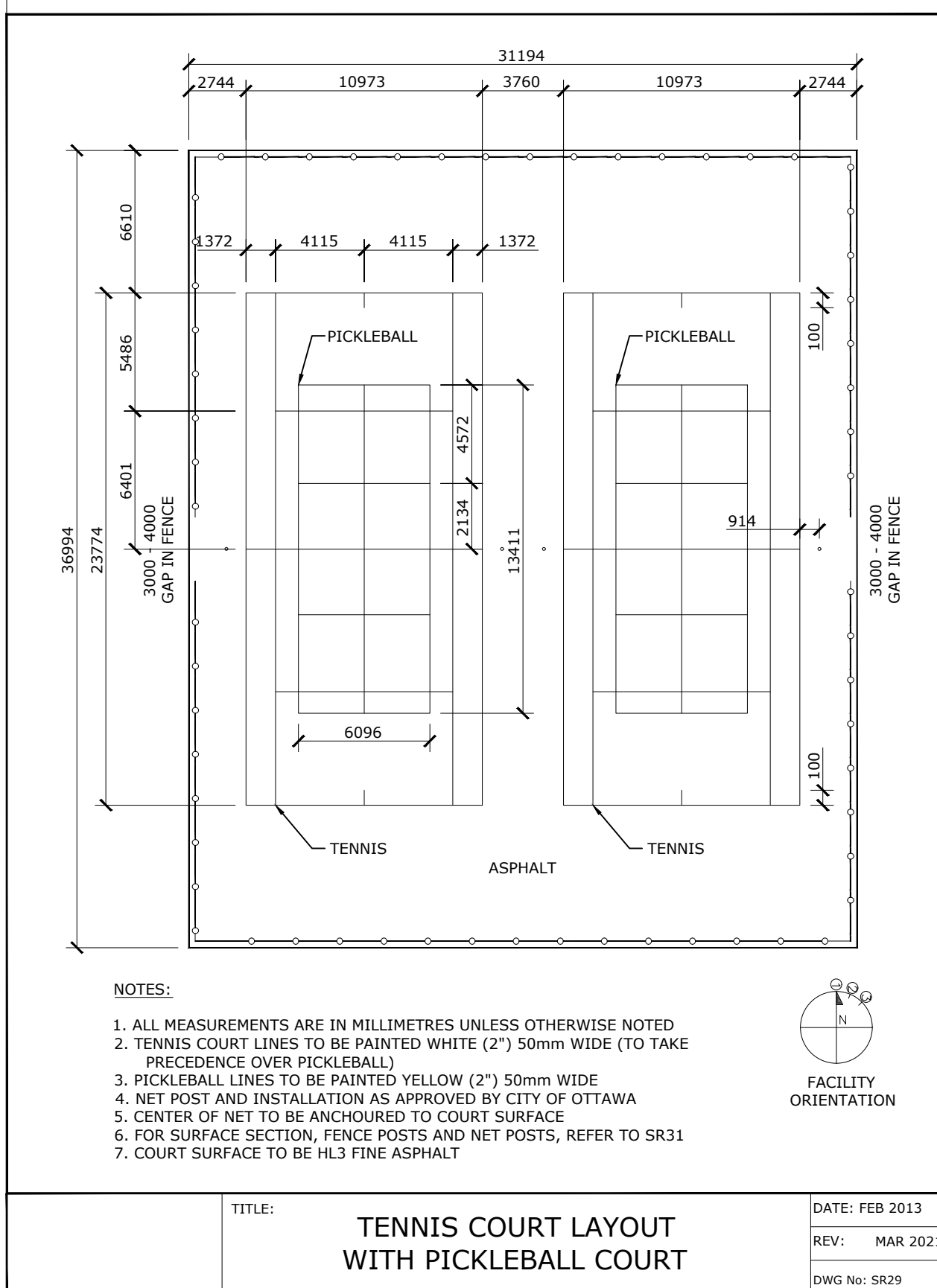
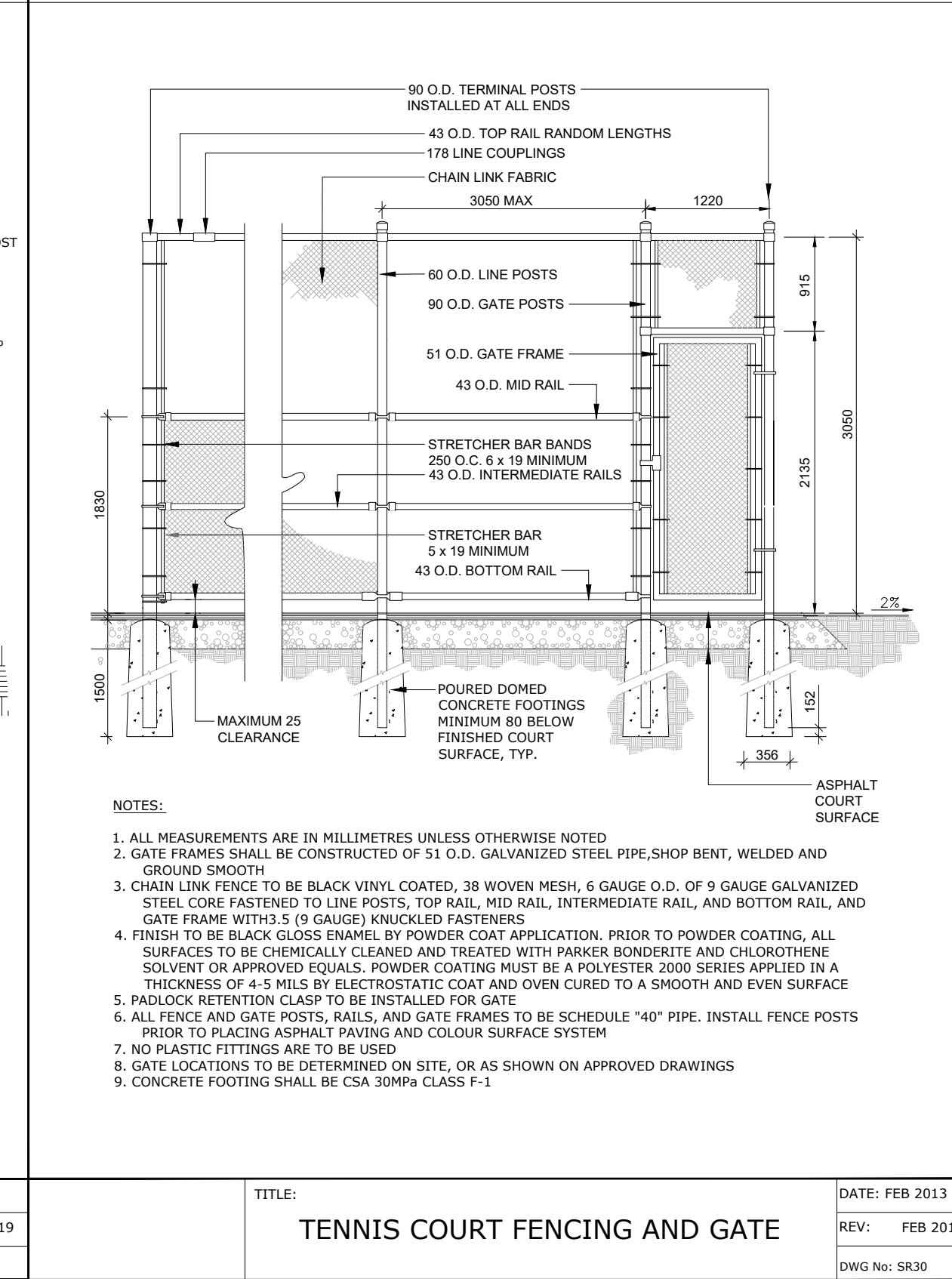
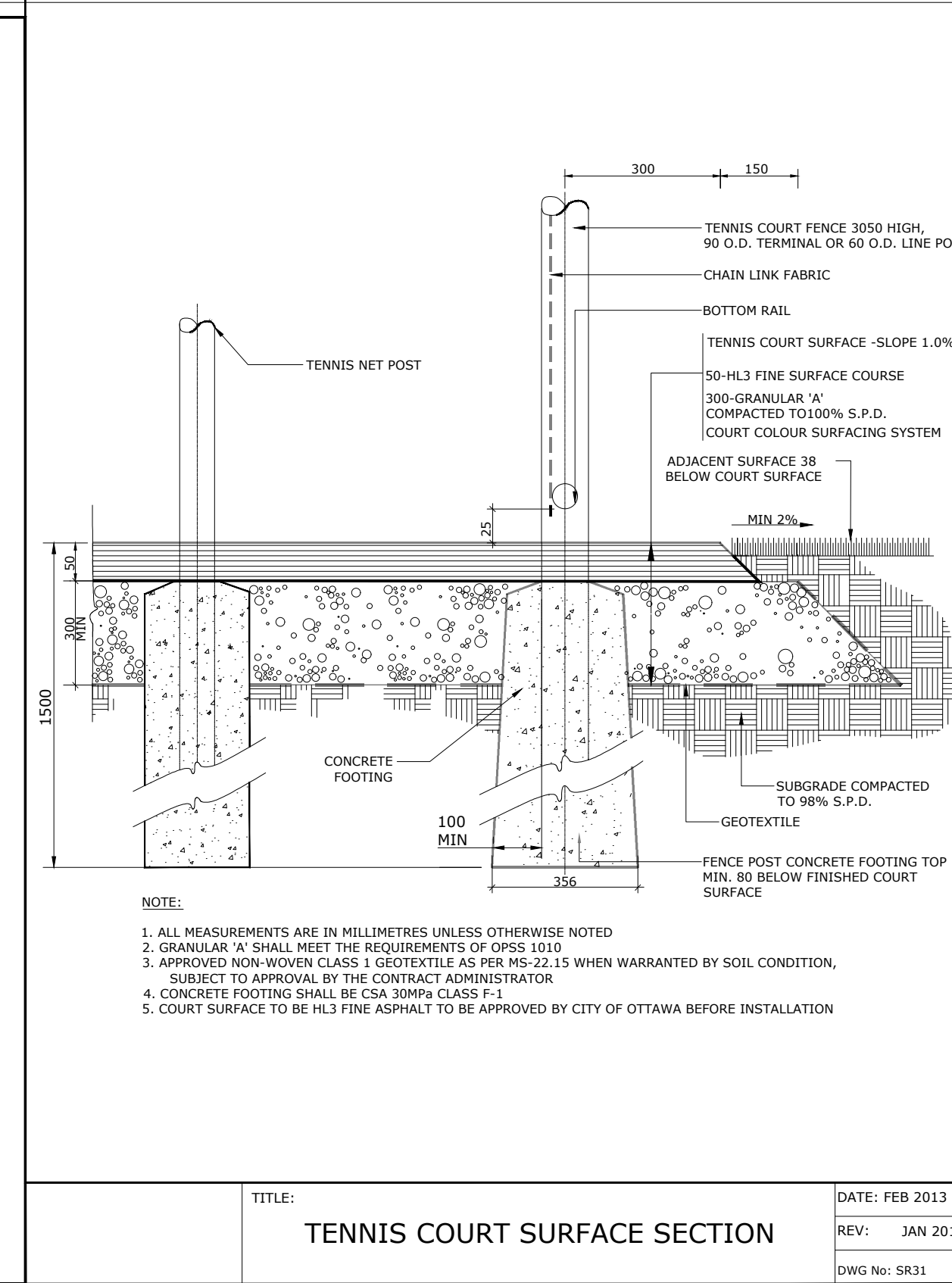
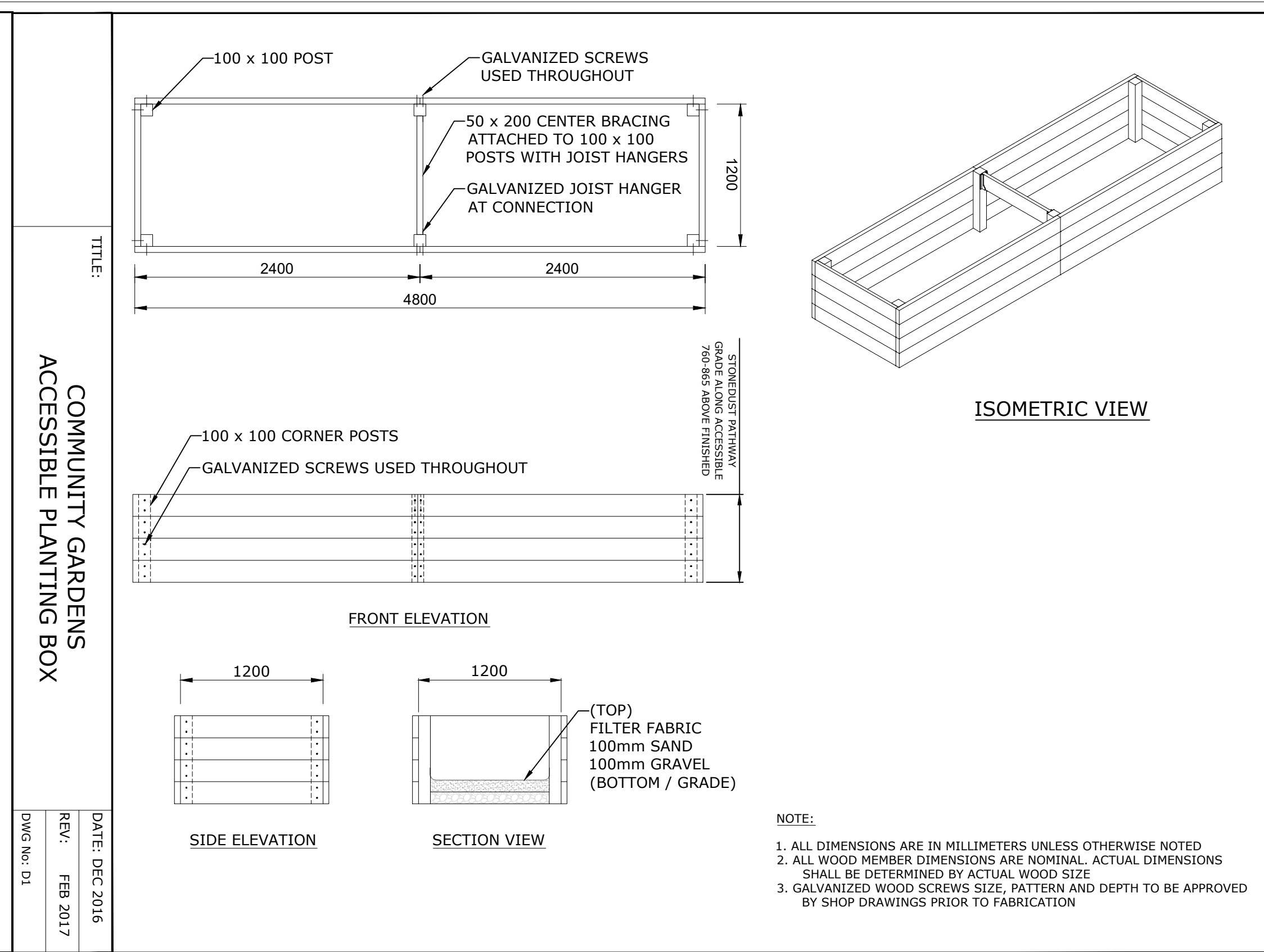
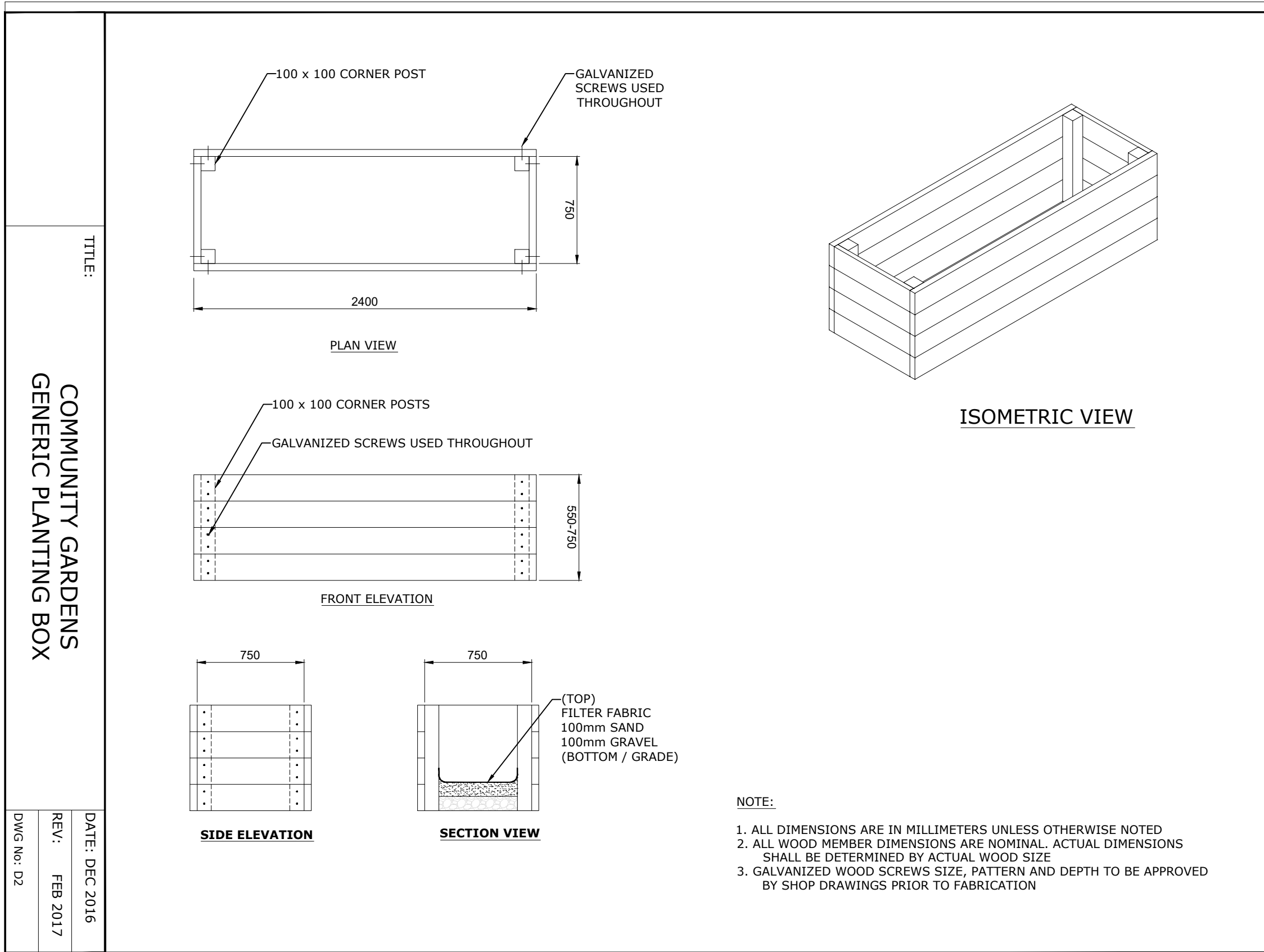
Sheet Number  
**LP-402**

Project Status  
Progress Submission









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



The Ottawa Hospital  
New Civic Development  
Parking Garage

930 Carling Avenue &  
520 Preston Street,  
Ottawa, ON, K1Y 4E9



Project Manager	Robert Malloy
Project Designer	Jason Emery Green
Project Architect	Project Architect
Landscape Architect	Jeff Fahs
Civil Engineer	Civil Engineer
Structural Engineer	LEA Engineering
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	Interior Designer
Equipment Planner	Equipment Planner
Wayfinding	HDR

MARK	DATE	DESCRIPTION
10	2022-06-03	ISSUED FOR SPC APPROVAL
09	2022-04-25	ISSUED FOR RDC REVIEW
08	2022-04-04	ISSUED FOR CM PRICING
07	2022-02-28	ISSUED FOR SPC RESUBMISSION
06	2022-02-28	ISSUED FOR 100% TOH DESIGN REVIEW
05	2022-01-19	ISSUED FOR 75% DESIGN REVIEW
04	2022-01-14	ISSUED FOR SPC RESUBMISSION
03	2021-09-22	ISSUED FOR SPC SUBMISSION
02	2021-09-03	ISSUED 30% CD
01	2021-08-18	ISSUED FOR SO SUBMISSION

Project Number: 10305722  
Original Issue: September 2021



Sheet Name  
**GREEN ROOF DETAILS**

Sheet Number  
**LP601**

Project Status  
Progress Submission

**APPROVED**  
By Lily Xu at 5:10 pm, Sep 12, 2022

LILY XU, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA