



**FIVE YEAR
WOODROFFE CAMPUS
MASTER DEVELOPMENT PLAN**
(v.2015.06.08)

ALGONQUIN
COLLEGE

Physical Resources | Information Technology Services
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Executive Summary

Our Vision is our path to the future:

A 21ST CENTURY CAMPUS WHERE PEOPLE, PRACTICE, AND POSSIBILITIES MEET



Artist's Rendering - Healthy Living Education and Learning Boulevard Concept

Algonquin College is focused on student success. The Five Year Woodroffe Campus Master Development Plan (v.2015.06.08) provides a snapshot of current thinking related to issues, opportunities, and priorities for the evolution of the Campus. A sustainable campus designed for excellence in contemporary learning and working environments will contribute to attracting and retaining students, faculty, staff, and community partners.

Growth in enrolment and accommodating programs responsive to community needs have been drivers for recent planning. Looking ahead, the plan for a contemporary campus has additional considerations. Key drivers today include:

- **Integration of digital technologies** into all disciplines, as well as into the pedagogy, services, and operations of the College

- **Diversity** of the campus population
- Response to **accelerating change**
- Importance of **student life** and the **learning experience** on one of the largest college campuses in Ontario
- Recognition of the value and potential of **experiential learning**
- **Declining funds** from traditional sources

Formerly farmland, the Woodroffe Campus is now part of a rapidly urbanizing area. The extension of rapid transit prompts increasing density and economic activity at the Woodroffe - Baseline transit oriented development district. The College can be a economic engine for the city. As active participants in the urbanization of the area, Algonquin College will gain new opportunities for campus development and new experiential learning opportunities for students.



BIG IDEAS

For the Next Five Years

- **Healthy Living Education**
- **Communities for Learning**
- **Learning Enterprises**
- **Algonquin Village Concept**
- **Front Door**
- **Community Partnerships**
- **Urban Connections**
- **Greening the Campus**
- **Renewed Library**
- **Athletics & Recreation Expansion**
- **Physical / Digital Continuum**
- **Pedestrian Oriented Campus**
- **Revitalize Existing Buildings**
- **Wayfinding**

This first iteration of the campus plan establishes a framework for decision making based on a vision and a set of development principles for the Woodroffe Campus.

The overall vision is:

“A 21st Century campus where people, practice, and possibilities meet.”

Four guiding principles synthesize recurrent themes which emerged from engagement sessions with stakeholders:

- **Activate our communities for learning**
- **Integrate into our community fabric**
- **Design attractive college spaces**
- **Actively steward resources**

The plan also looks at issues and opportunities today and proposes short-term projects and initiatives that will set in motion the transformation of the Campus. Key initiatives include Healthy Living Education, the Building C revitalization, addressing deferred maintenance, and infrastructure requirements.



1

Introduction

Table of Contents		page
<i>Executive Summary</i>		i
1	Introduction <ul style="list-style-type: none"> • Overview • Integrated College Development Planning • Campus History • Urban Context 	1
2	Growth and Development <ul style="list-style-type: none"> • Development Opportunities • Development Scenarios 	11
3	Development Vision and Principles	17
4	Development Priorities	29
	 Communities <ul style="list-style-type: none"> • Healthy Living Education • Building A Revitalization • Building C Revitalization 	30
	 Fabric <ul style="list-style-type: none"> • Transportation • Campus Arrival • Campus Wayfinding 	36
	 Spaces <ul style="list-style-type: none"> • Campus Experience - Beautification • Campus Environments 	42
	 Stewardship <ul style="list-style-type: none"> • Infrastructure Maintenance Strategy • Energy • Water 	46
5	Summary	53

Overview

The Five Year Woodroffe Master Campus Development Plan (v.2015.06.08) establishes a vision and guiding principles that form the framework for the long-term physical transformation of the Woodroffe Campus and identifies short-term priority projects and directions. As a snapshot plan, it will help guide future development decisions and ensure the College can dynamically respond to changing conditions.



WHAT IS A SNAPSHOT PLAN?

Campus development planning is a process. The June 2015 **snapshot** captures current planning thinking related to how the Woodroffe Campus will develop over the next five years, and is a gateway for future mid- and long-term campus planning decisions. Plan elements will be revisited and updated in response to changing needs and conditions and to ensure timely alignment with other relevant strategic initiatives under development, such as the 2017-2022 College Strategic Plan and Digital Strategy 2.0. This innovative and agile approach to planning allows Algonquin College to dynamically respond to an uncertain future and showcase a new model of campus planning.

The plan looks at the issues and opportunities of the campus today; establishes the vision and framework for long-term planning decisions; and proposes the short-term projects and initiatives that will set in motion the transformation of the Campus. It also opens the conversation with internal and external communities to help shape the future of Woodroffe Campus.

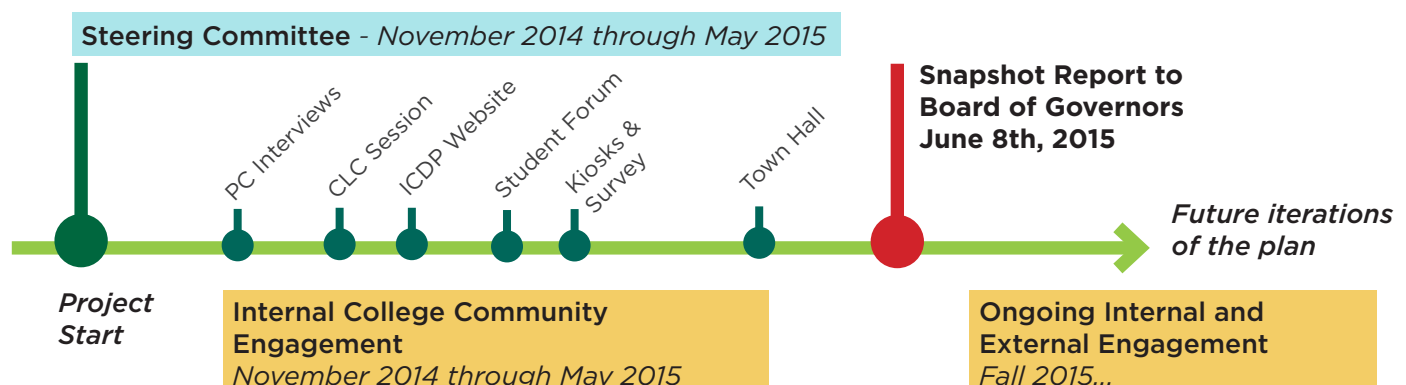
WHY DO WE NEED A CAMPUS PLAN?

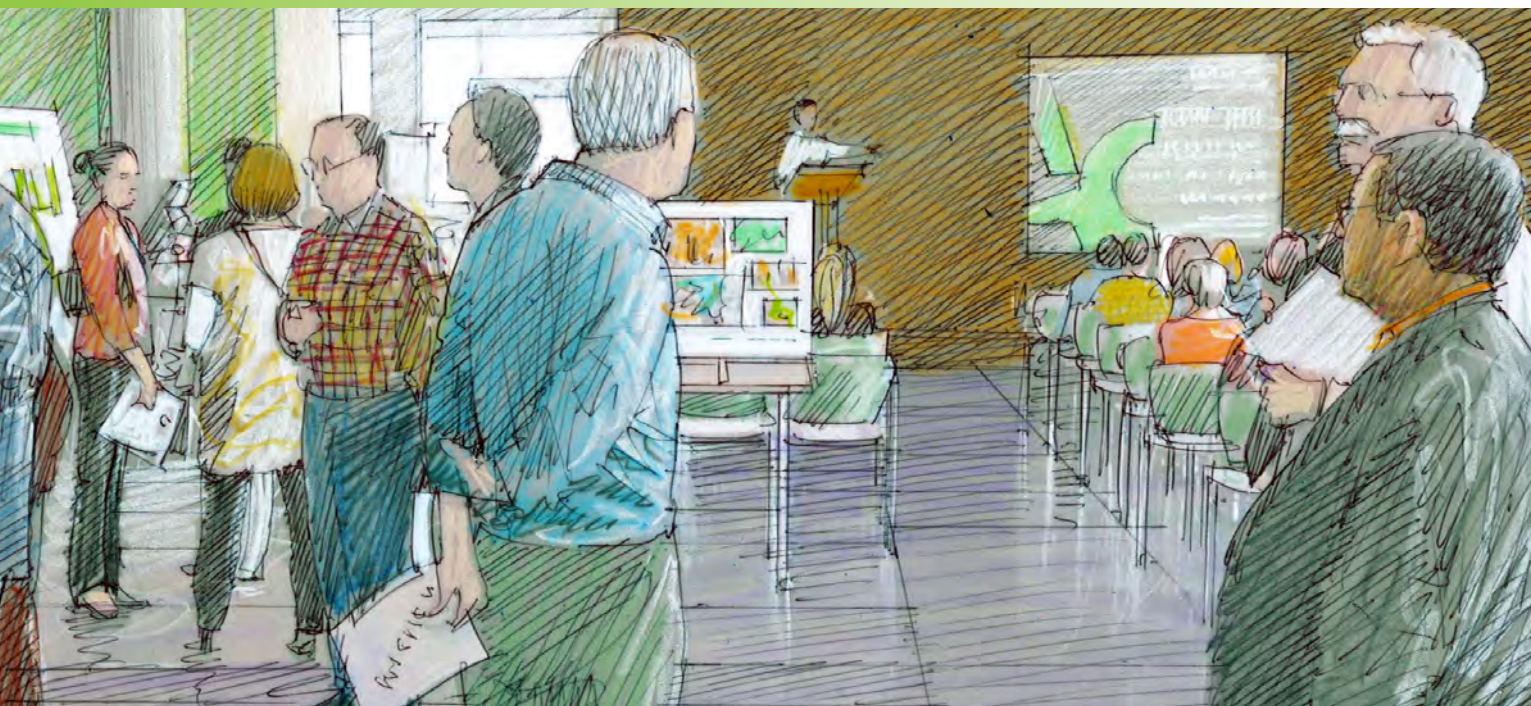
The Woodroffe Campus is Algonquin College's flagship physical campus and a landmark in the Nation's capital. As the largest of the College's campuses, it is home to over 20,000 students and staff, and is one of the largest College campuses in Ontario. The campus serves the needs of a diverse community who study, work, live and visit Woodroffe Campus. These multiple communities have been carefully considered as part of the plan.

The Five Year Woodroffe Campus Master Development Plan:

- **ENGAGES** the College community in campus planning to shape our future
- **REFLECTS** on our past achievements
- **SUMMARIZES** current thinking
- **IDENTIFIES** short term priority projects
- **INFORMS** decision making
- **INSPIRES** new thinking, conversations and participation in creating our future

ENGAGEMENT PROCESS TIMELINE





Community Engagement

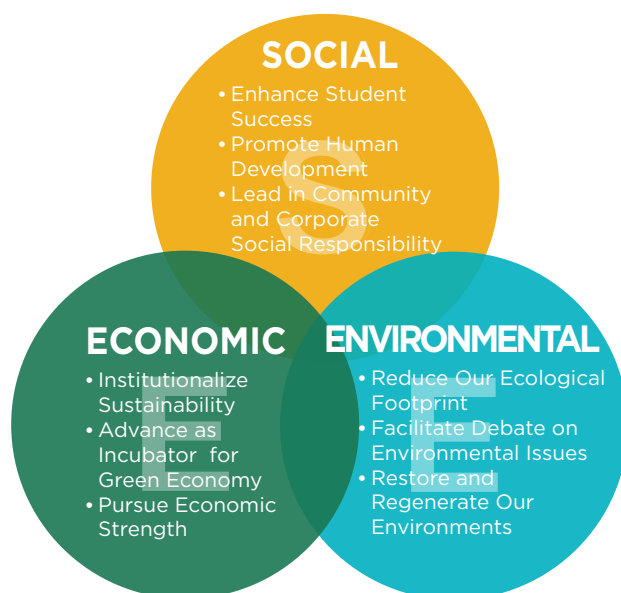
SCOPE AND PROCESS

The Five Year Campus Plan was informed by a seven month engagement period, from November 2014 to May 2015.

The campus planning process was led by College planning staff and guided by the Integrated Campus Development Planning (ICDP) Steering Committee with representatives from across the College and the City of Ottawa. The planning team included a multidisciplinary group of consultants with expertise in campus planning, community engagement, sustainability, architecture, and infrastructure.

Stakeholder engagement was integral to the preparation the campus plan. Over 500 people from within the College community were involved, including: students, faculty, administration, support staff, the ICDP Steering Committee, the College Leadership Council (CLC), and President's Council (PC). A broad range of engagement activities was used to reach the students, faculty, and staff, such as individual interviews, facilitated sessions, a newly launched website, and widespread online and in-person surveys.

Sustainability principles have been woven through the campus plan and are fundamental to the planning process



Sustainability Strategy Framework

The College's sustainability model (S-E-E) is integral to all campus planning and development activities with a goal to balance people, the environment, and economic realities in developing holistic solutions.

Integrated College Development Planning



Innovative Planning for the future

CHANGING THE CONVERSATION

Managing multiple priorities and planning for the long-term physical needs of a post-secondary institution is a complex process compounded by the impact of digital technology and the notion of learning 'anywhere, anytime, and in any way'.

Integrated College Development Planning (ICDP) is a framework planning process used to plan, design, and implement physical and digital environments.

This innovative and agile approach to planning enables the College to dynamically respond to a fluid academic environment, and an uncertain future.

THINK GLOBALLY, PLAN AND ACT LOCALLY

Algonquin College operates in a global context. Advances in digital communications have opened up a new world of possibilities, and continued technological advancements will create opportunities for long-distance connections and educational opportunities that we cannot yet imagine.

When planning for a physical campus the context of the local communities (Ryan Farm, Centrepoinette, the City of Ottawa, and Eastern Ontario) need to be considered.

ICDP FRAMEWORK PLANNING PRINCIPLES (v. 2014.03.24)

College Life

- Model a pre-emptive college
- Re-imagine experiential learning
- Promote healthy living
- Stimulate engagement and collaboration
- Create a year-round 24/7 college
- Recognize that learning can occur anywhere, anytime, and any way

Algonquin Connected

- Ensure the College vision, mission, values, and brand drive development planning
- Think globally while planning and acting locally
- Ensure development planning enhances learning and skills acquisition
- Advance the democratization of vocational education

Infrastructure

- Create innovative opportunities for sustainable physical and digital infrastructure investment
- Make the College welcoming, navigable, and familiar
- Establish the College reputation and identity throughout all its environments

Environments

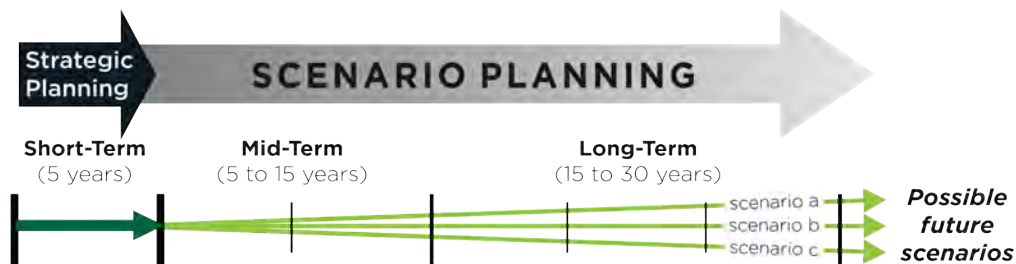
- Create model learning, working, social, and living environments for a 21st century higher education institution
- Think of College environments as a continuum of physical and digital space
- Optimize digital and existing physical space before building new physical space
- Assess the highest and best use of physical and digital space to accommodate activity

Practice

- Engage and enable the College, the community, and industry
- Be socially, economically, and environmentally responsible
- Enable agile, evidence-based, and principled decision making
- Champion innovation and entrepreneurship
- Embrace risk – build resilience
- Master accelerating change to first-mover advantage



Plan, design, and implement physical and digital environments



PLANNING IN TIME AND PLACE

ICDP is structured to engage in more timely conversations about accommodating College-wide growth in optimized physical and digital environments.

The Five Year Woodroffe Campus Master Development Plan is focused on the next 5 years in light of mid- and long-term possible futures for Algonquin College.

ALGONQUIN COLLEGE LINKAGES

The Plan is in alignment with existing and emerging College strategies and plans.

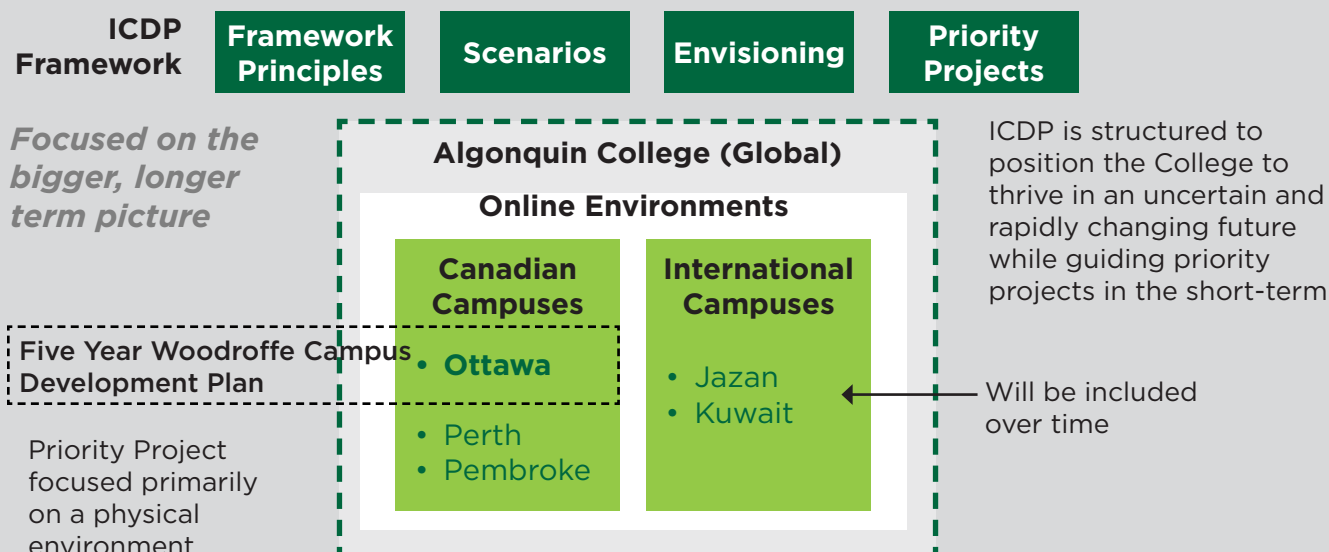
Guiding Documents and Linkages:

- 2012-2017 Strategic Plan
- Strategic Mandate Agreement (2014-2017)
- Sustainability Strategy Framework
- 2009 Academic Technologies White Paper
- Information Technology Strategy

Emerging Linkages:

- 2017-2022 Strategic Plan
- Digital Strategy 2.0

POSITIONING THE FIVE YEAR WOODROFFE CAMPUS PLAN WITHIN ICDP



Woodroffe campus in the timeline stream...

CHANGES IN URBAN CONTEXT

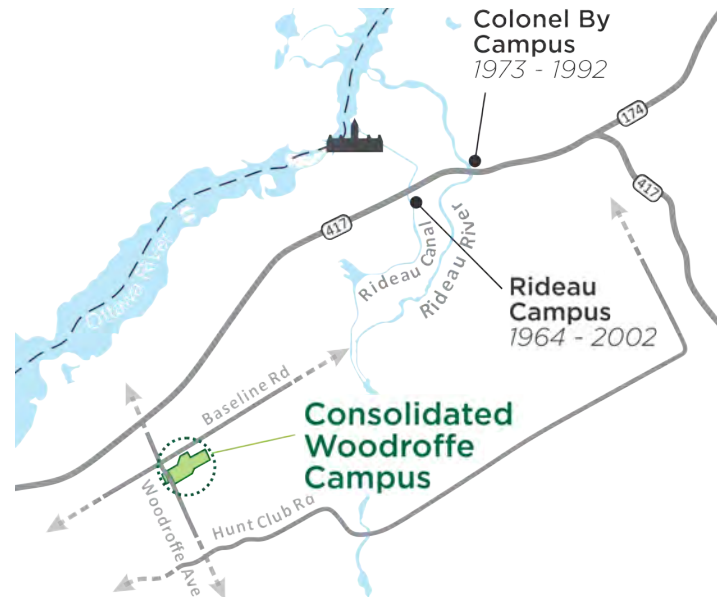
When Algonquin College of Applied Arts and Technology opened to students in 1967, Woodroffe Campus was surrounded by agricultural lands. Since then, the area has been absorbed by the city of Ottawa and forms a transportation, commercial, and institutional anchor to the city's western suburbs.

As the surrounding city continues to develop, light rail rapid transit is realized at Baseline station and CentrepoinTE Town Centre is developed, the area is poised to transform into a vibrant urban hub, with Woodroffe Campus at its centre.

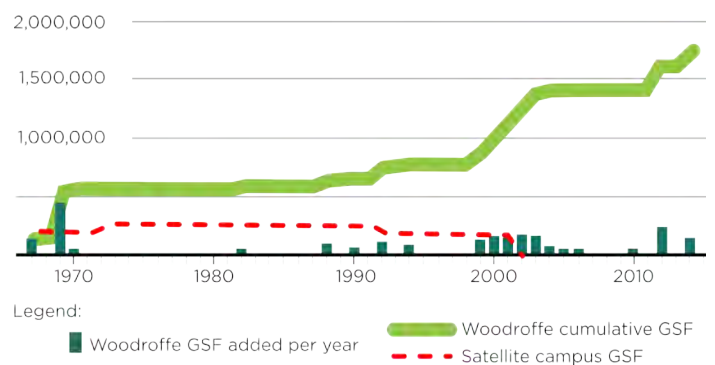
CAMPUS CONSOLIDATION & GROWTH

Over its 48 year history, growth on Woodroffe Campus has been in response to enrolment growth and program-specific facility needs.

At the beginning of the 1990's the College made a strategic decision to consolidate to a single main campus in Ottawa, on Woodroffe Avenue.



History of Algonquin Satellite Campuses in Ottawa



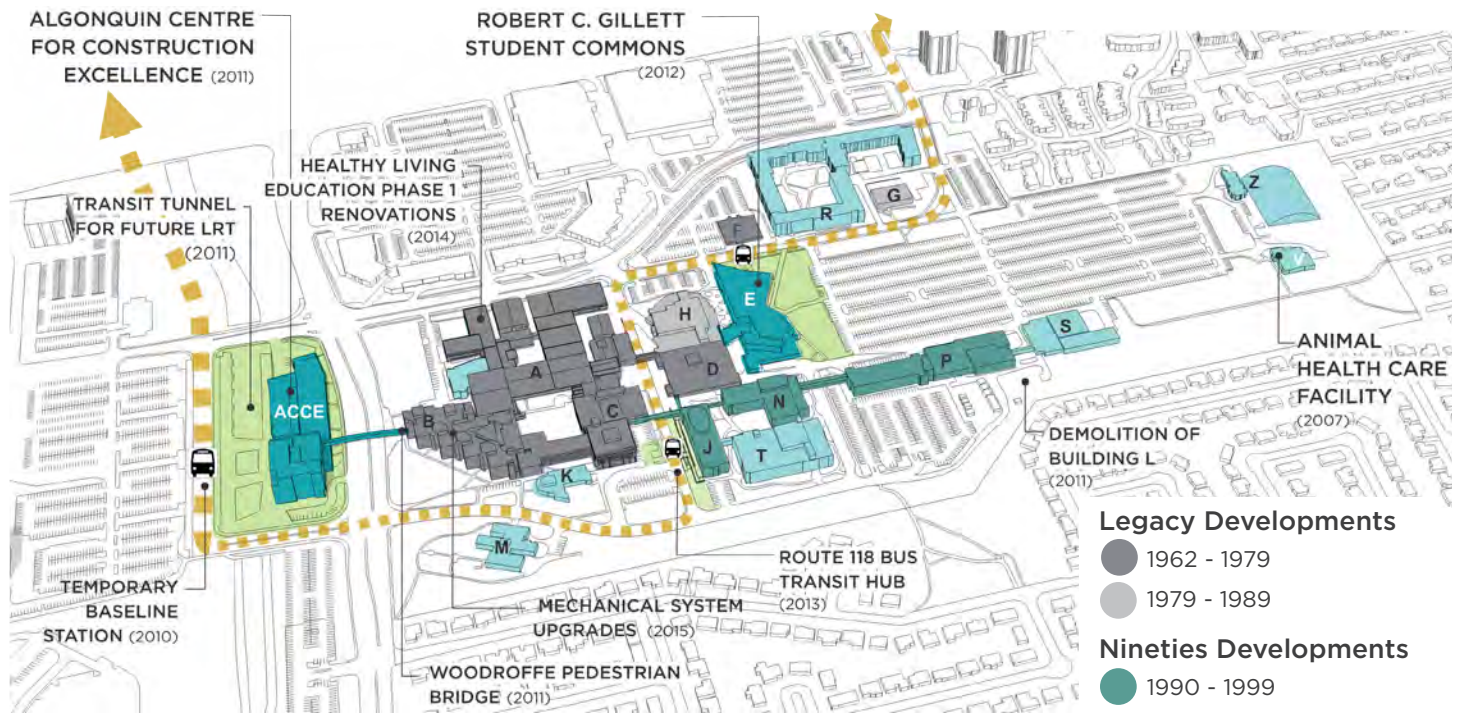
Yearly History of the College's growth in Ottawa and consolidation to the Woodroffe Campus



Aerial Photograph 1965

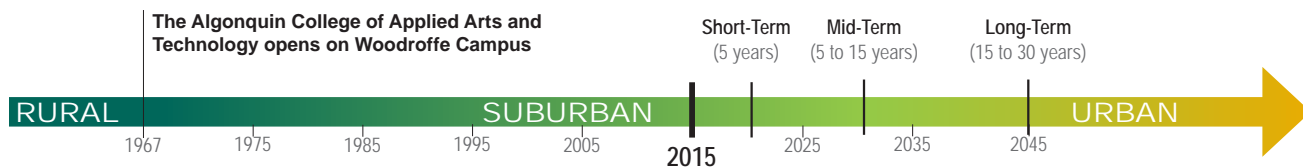


Aerial Photograph 1976



Woodroffe Campus Building Development History

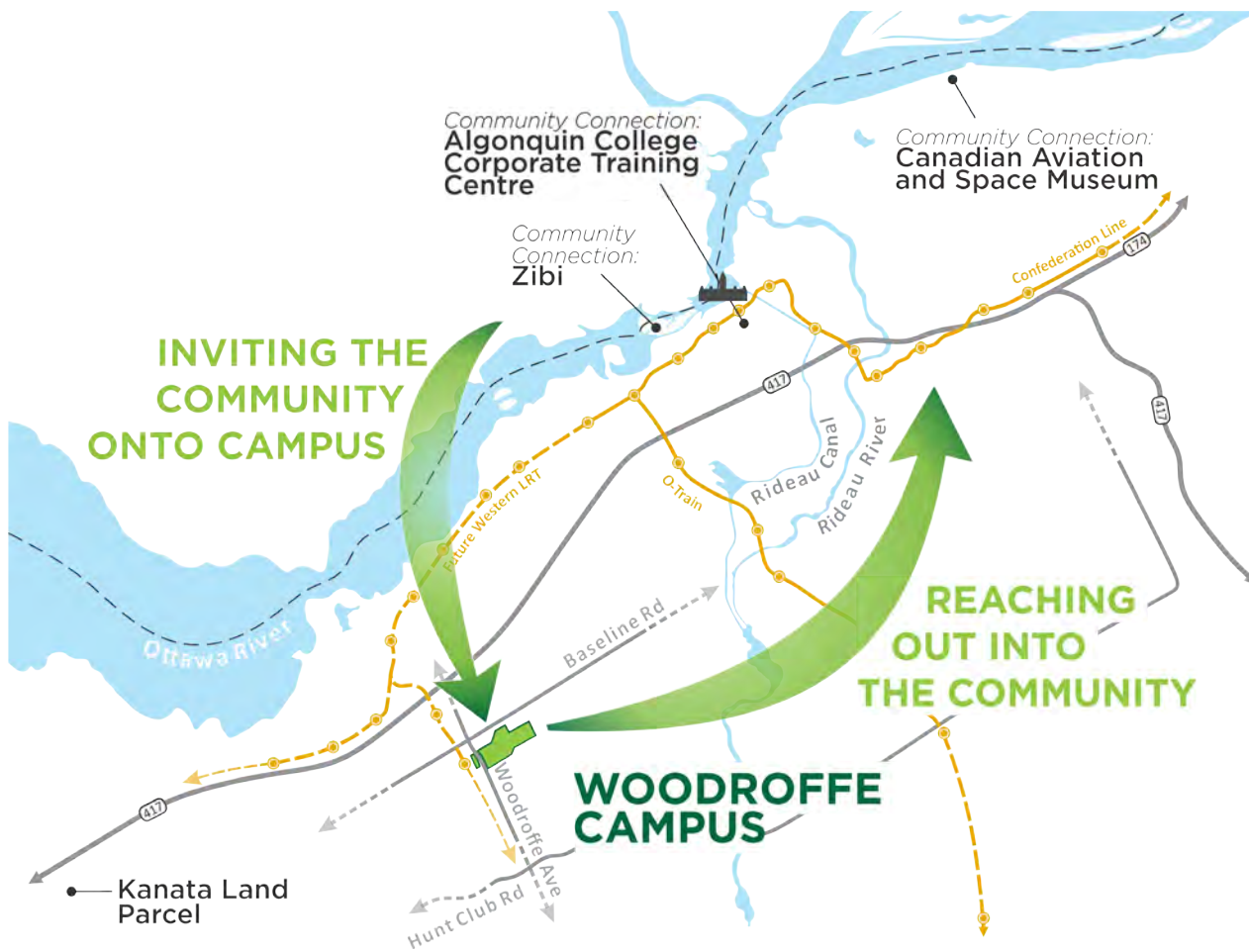
Moving towards a future of increasing urban intensity



Aerial Photograph 2002



Aerial Photograph 2014



Algonquin College in Ottawa

The district around Woodroffe Campus is poised for major transformation.

City Context

- Algonquin College will continue to have a single main campus in the City of Ottawa.
- The College will expand its work-integrated learning network throughout the City.
- Partners will continue to be sought to provide unique off-campus learning facilities.
- New on-campus co-location opportunities will be pursued with public and private partners.
- Additional learning enterprises will be created on campus, expanding services to the community.
- The broader community will be included in campus life and the learning experience.

District and Neighbourhood Context

- Woodroffe / Baseline has been identified as a transit oriented development area (TOD).
- Woodroffe Campus is located at the geographic centre of Ottawa.
- CentrepoinTE is a mixed-use town centre with enormous development potential.
- Algonquin College has opportunities to expand its presence at CentrepoinTE.
- Existing undeveloped and underdeveloped areas to the north and west are anticipated to add to the urban intensification.
- Existing adjacent residential fabric to the south and east is anticipated to remain.



2

Growth and Development

Woodroffe Development Opportunities



Future CentrepoinTE Development - Artist's Rendering

A Modern Urban Campus

Light rail transit (LRT) is coming on line in the mid-term future. This development will spark increased density and significant shifts in land use as the area changes from suburban to urban.

These changes will support new, mixed-use transit-oriented development in the area and will draw new people onto campus. With increased density and consideration of alternative development approaches, there is an unprecedented opportunity to take a prominent role in shaping the new urban community as it grows.

DEVELOPMENT OPPORTUNITIES

Meeting the City - Intensification of Urban Edges

Opportunities for the College to develop land parcels with increased density along Woodroffe Avenue and Navaho Drive.

CentrepoinTE Expansion Opportunities

Further Algonquin development on the CentrepoinTE sites is conditional upon implementation of LRT. Development parcel opportunities include air rights over the future Baseline light rail transit station in the mid-term and development of new parcels west of the transit tunnel and ACCE building in the long-term.

Redevelopment Opportunities

Redevelopment for increased density of low rise buildings A, D, G, K, and M will provide future opportunities as these buildings approach end-of-life.

Renewal and Addressing Deferred Maintenance

Modernization and revitalization of existing facilities such as Buildings B, C, J, and N.

Undeveloped Land

Woodroffe Campus has a significant portion of undeveloped land available for future growth.

Partnerships and Mixed Use Development

Opportunities for commercial development and partnerships which complement Algonquin College's academic mission.

Being a Good Neighbour

Future developments should respect adjacent low rise residential areas to the east and south.

Kanata Land Parcel

Held as a strategic asset for mid- to long-term flexibility.

By rethinking our approach to development, Woodroffe Campus has site capacity to meet the needs of the college in the short-term, mid-term, and long-term.



ALGONQUIN COLLEGE CONTINUES TO GROW

The growth picture for the post-secondary education sector is in flux in the short-term and is fluid for the mid-term and long-term. Demographics indicate that the rate of growth of traditional student cohorts is slowing but not declining. This will be offset to some extent by increased retention and growth in on-shore international students. Additionally, non-traditional cohorts appear to be opening new growth opportunities. The shift to online education is building in the short-term and will more significantly impact capacity to grow in the mid- and long-term.

With a campus population of approximately 20,000 students, the Woodroffe Campus is one of the largest campuses in the Ontario College system. As such, each percentage increase in enrollment represents a significant increase in population and facility needs. Algonquin College's strategy to optimize digital and physical space before building new physical space has positioned Woodroffe Campus as among the most efficient in the College system. There is limited excess capacity in the existing space portfolio.

Our assumptions for short-term growth at the Woodroffe Campus are:

- The student population will grow between 10% to 15% over the next 5 to 8 years adding 2,000 to 3,000 new students on campus.
- Based on space per student range of 65 to 75 gross square feet (GSF), physical space at the Woodroffe Campus should be increased by 130,000 GSF to 225,000 GSF to maintain operational effectiveness. For comparison, the Advanced Technology Centre is 120,000 GSF and the Algonquin Centre for Construction Excellence is 190,000 GSF.
- If additional facilities are not built at the Woodroffe Campus over the next five years, the campus will experience significant overcrowding pressures and difficulties in accommodating the academic mission.

Development Scenarios

Inspire new thinking...

By inspiring new thinking around development, Algonquin College would bridge the gap between enrolment and employment by providing year-round learning and economic opportunities.

Many development scenarios are possible, including hybrid approaches combining traditional academic planning with alternative development approaches. The Algonquin Village concept is one example of an alternative development approach.

Traditional Academic Development

Historically, as Algonquin College has added physical infrastructure to accommodate growth, new learning environments were largely government funded and focused on directly meeting the academic mission.

With financial constraints at all levels of government, public funding for new major capital expansion projects will be limited for years to come, challenging the College's ability to meet enrolment growth projected for the Woodroffe campus.

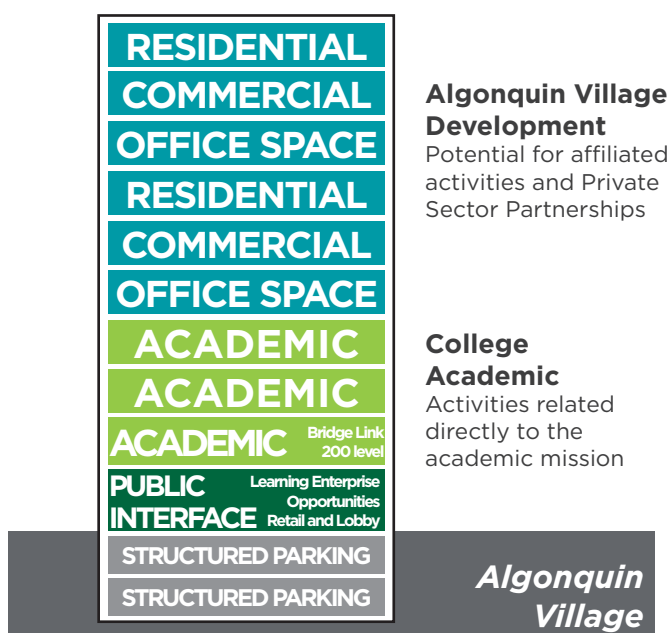
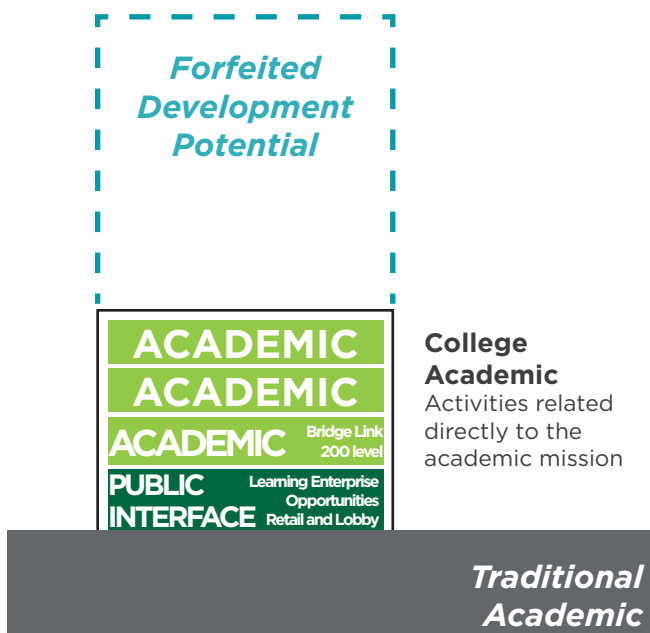
In addition, the College recognizes that education is changing. Applied work experiences for students both on and off campus is increasingly seen as critical to student success, ensuring they are exposed to a continuum of learning opportunities between enrolment and employment.

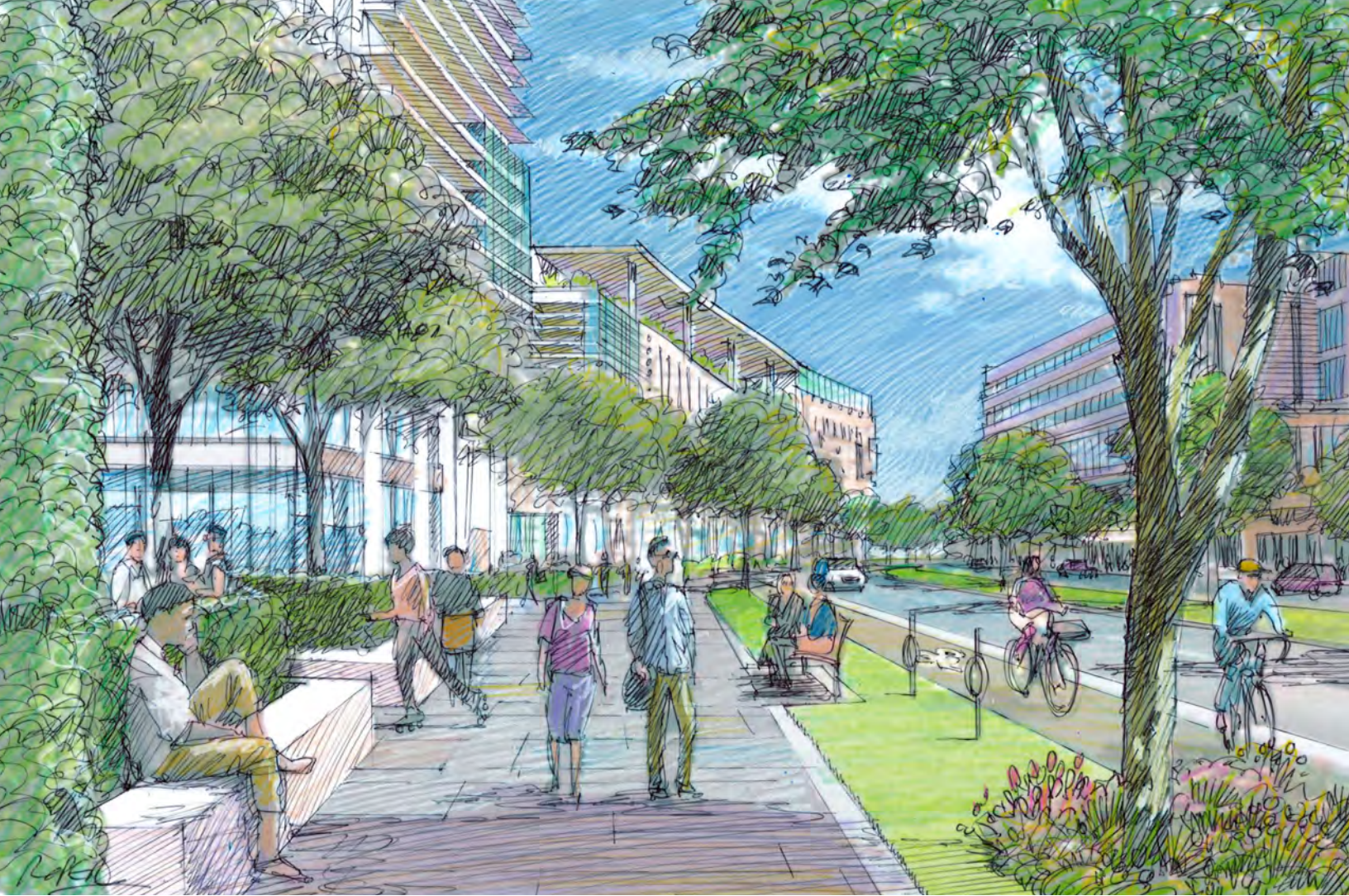
Algonquin Village Development

The Algonquin Village concept builds on the changing urban context and embraces intensification opportunities.

Working with the City and the development community, the Algonquin Village concept would reshape the Campus by opening it up to strategic partnerships.

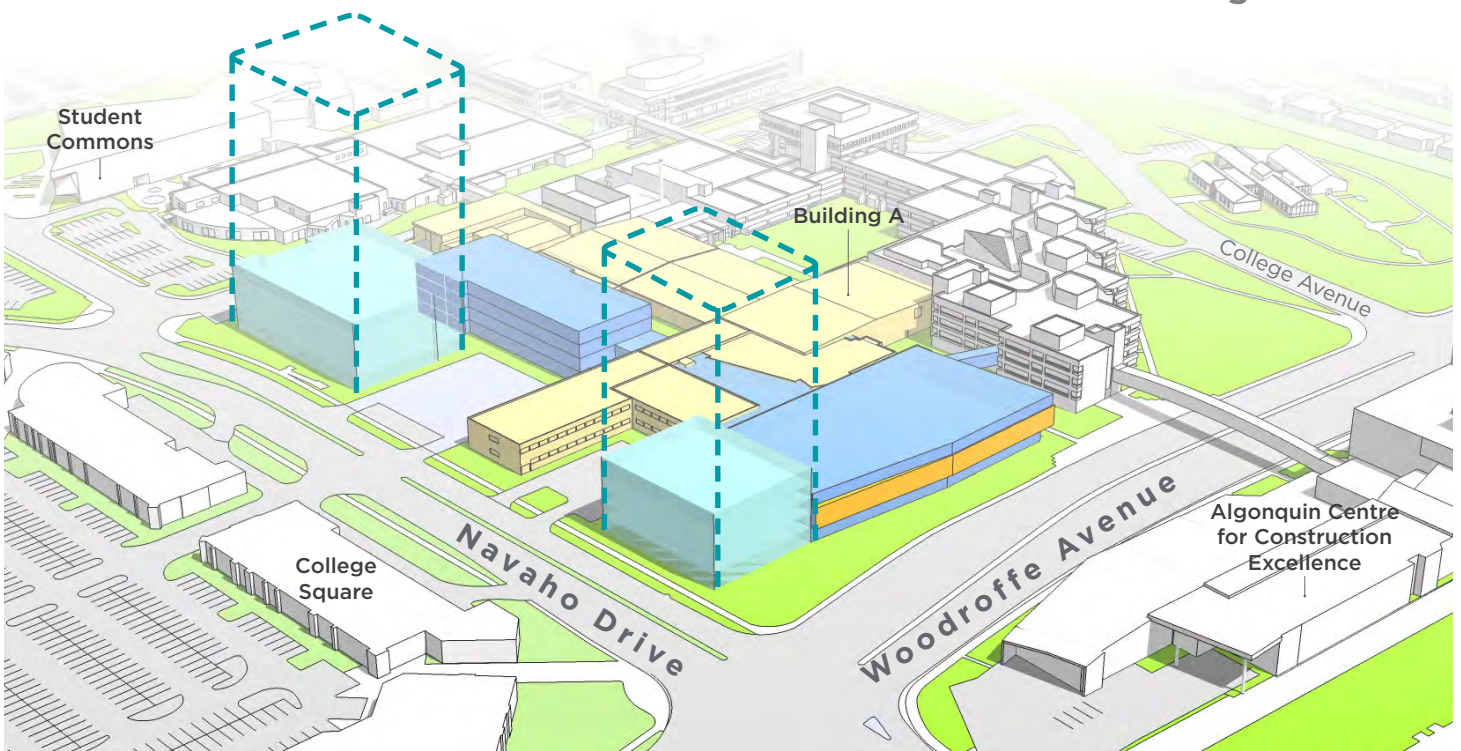
Algonquin could play a leadership role in the evolution of development in the Woodroffe Baseline area. It would anchor an expanded future community and contribute to its fabric by offering amenities, employment, recreation, and learning opportunities on campus.





Long-term vision for Navaho Drive - Artist's Rendering

***Moving to a development mindset
to meet long-term needs***

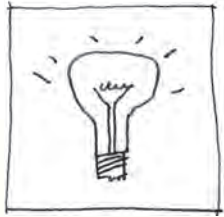


Aerial view from corner of Woodroffe Avenue and Navaho Drive looking South-East - Massing Diagram

3

Development Vision and Principles

Development Vision and Principles



Vision

**A 21ST CENTURY CAMPUS WHERE
PEOPLE, PRACTICE, AND POSSIBILITIES
MEET**



The guiding principles will provide direction for the physical development of the Woodroffe campus into the future. They provide a framework for decision making for future projects and an evolving campus plan.

ACTIVATE OUR COMMUNITIES FOR LEARNING



Cultivate connections with our internal and external communities to establish collaborative and dynamic learning environments both on and off campus.

INTEGRATE INTO OUR COMMUNITY FABRIC



Transition the campus to become an outward facing, dynamic and urban asset at the heart of our community, with the physical and digital infrastructure to enable anytime, anywhere access to learning, social and economic activity.

DESIGN ATTRACTIVE COLLEGE SPACES



Create inspiring and dynamic spaces that support vibrant and rich learning, working, social, and living experiences on campus.

ACTIVELY STEWARD RESOURCES



Sustainably manage existing facilities and growth to maximize value today and into the future.

Activate Communities for Learning



Algonquin Center for Construction Excellence



Dental Clinic



ACTIVATE OUR COMMUNITIES FOR LEARNING

Cultivate connections with our internal and external communities to establish collaborative and dynamic learning environments both on and off campus.

Exploratory Objectives

- Integrate experiential teaching and learning opportunities into the fabric of campus learning environments to increase applied learning opportunities;
- Create spaces that will enable internal (learning enterprises) and external (co-located) businesses to thrive on campus, providing real world learning opportunities for students, diversified revenue streams for the College, and services for our communities;
- Cultivate our campus partnerships in order to deepen our relationships with the community reach and expand learning opportunities across our communities; and
- Develop key community partnerships to increase experiential and simulated learning opportunities for students, and ensure optimal use of College space and resources.



Welcoming the Community onto the Campus

What we are hearing from Algonquin students and staff



What we are looking at:

- Community Partnerships
- Healthy Living Education Hub
- Co-located businesses and learning enterprise opportunities
- Experiential and simulated learning opportunities

Integrate Into Our Community Fabric



Community Connections



Woodroffe Pedestrian Bridge - Connections with the City



INTEGRATE INTO OUR COMMUNITY FABRIC

Transition the campus to become an outward facing, dynamic and urban asset at the heart of our community, with the physical and digital infrastructure to enable anytime, anywhere access to learning, social and economic activity.

Exploratory Objectives

- Integration with existing and future residential and commercial neighbourhoods surrounding the campus to create a vibrant, urban, mixed-use community, defined by the College at its core;
- Use the strategic location and real estate assets of the campus to pursue the Algonquin Village concept; the opportunity to optimize land use to create live, work, learn and play opportunities on Campus;
- Improve movement to, from and within the campus by creating an active transportation plan, and completing the deployment of interior, exterior and online wayfinding solutions that will enable efficient, barrier-free access; and,
- Improve accessibility to, from and within the campus through a comprehensive transportation strategy that prioritizes sustainable modes of transportation such as transit, cycling, the future LRT, and addresses current and future parking needs.



Bus Route 118 Stop

What we are hearing from Algonquin students and staff



What we are looking at:

- Deployment of Wayfinding across Woodroffe
- Integrated and connected with the immediate neighbourhood, the surrounding community, and the city
- Physical and digital connections through transportation and technology
- Prioritized pedestrian experience
- Sustainable transportation and parking

Design Attractive College Spaces



Innovative Building - Algonquin Centre for Construction Excellence



Flexible learning and working spaces



DESIGN ATTRACTIVE COLLEGE SPACES

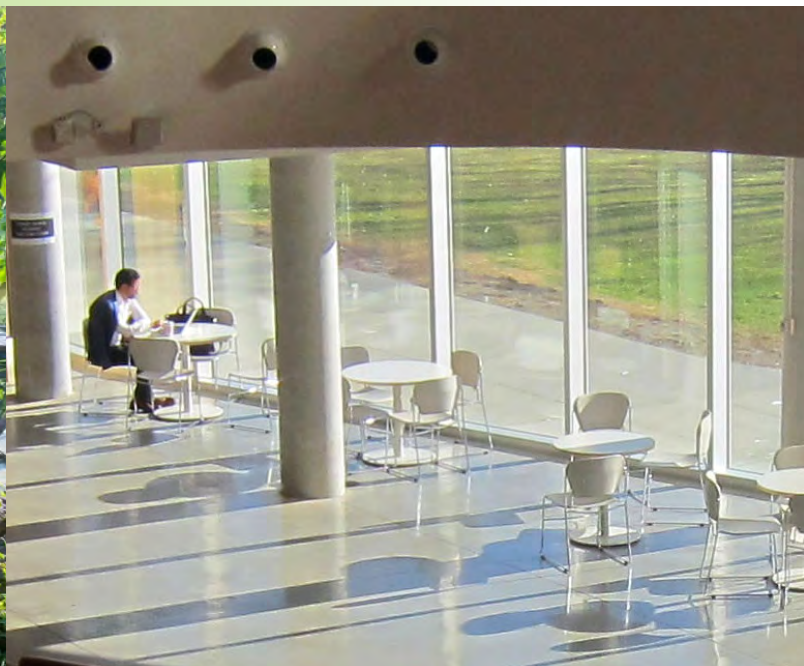
Create inspiring and dynamic spaces that support vibrant and rich learning, working, social, and living experiences on campus.

Exploratory Objectives

- Develop open space plans to beautify and refresh indoor and outdoor spaces, to guide the design and identity of connected pathways, streetscapes, green spaces, exterior learning and social spaces, exterior lighting, signage, art, and gateways;
- Create flexible and multi-purpose teaching and learning environments that support anywhere, anytime (physical and digital) learning and are responsive to evolving academic requirements;
- Enhance social and recreational spaces to encourage students, employees and visitors to lead healthy, active lifestyles and increase serendipitous encounters across the campus;
- Develop a student housing strategy to ensure students have access to safe and affordable living facilities both on and off campus, in collaboration with the City and development community;
- Create open and flexible work environments that will enable mobility, optimize space, and provide better opportunities to collaborate and connect;
- Let the sun shine in by designing spaces that maximize opportunities to introduce or increase natural daylight into all our environments, and increase views to the outdoors; and,
- Revitalize Building C. Redefine our front entrance to be welcoming and worthy of Algonquins place in the world. Facilitate easier access to senior leadership for the College community, rejuvenate the library to meet the needs of a 21st century College, and consolidate existing student services to improve access.



Beautiful Landscape



Day-lighting and views to outside

What we are hearing from Algonquin students and staff



What we are looking at:

- Campus beautification and celebrated green spaces
- Flexible and multi-purpose teaching, learning, and working spaces
- Natural daylight
- Landscape Strategy
- Study spaces for students
- Meeting spaces and work environments
- Renewed Library
- Campus "front door" and public face (Building C)
- Consolidated College services

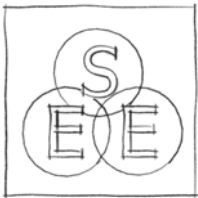
Actively Steward Resources



Renewed Landscape & Wayfinding



Mobile Learning Environments (Building B Renewal)



ACTIVELY STEWARD RESOURCES

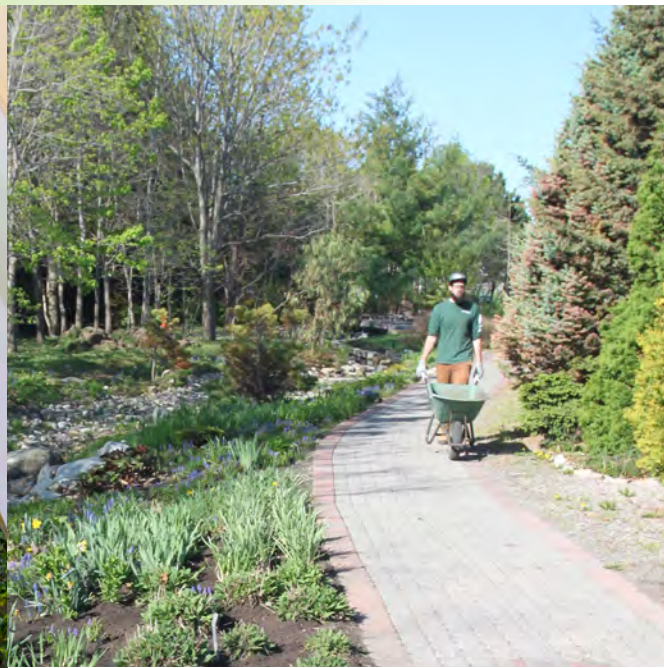
Sustainably manage existing facilities and growth to maximize value today and into the future.

Exploratory Objectives

- Develop an infrastructure maintenance strategy to sustainably manage physical and digital facilities and infrastructure;
- Increase the Facility Condition Index (FCI) of Buildings B and C from poor condition to fair condition and ensure no further degradation of existing buildings;
- Prioritize space optimization, renewal, renovation, and use of off-campus space before building new facilities. Develop a space assignment policy (assignable and non-assignable space); establish targets for space per student;
- Examine alternative funding models to support future campus growth and the Algonquin Village concept by exploring public / private partnership (P3) and other options; and,
- Incorporate Algonquin's Social-Environment-Economic (S-E-E) model of sustainability into construction and maintenance of campus facilities and infrastructure. All new buildings, major renovations, and tenant fit ups will be designed, built, and/or renovated according to the relevant LEED Gold standard.



Visible Sustainable Principles



Cared for Green Spaces

What we are hearing from Algonquin students and staff



Sustainability is important
Love ACCE and SC Modern architecture
Aging buildings (A,B,C) need renovation
Deferred maintenance is a priority
Opportunity to optimize space on campus
New funding models are needed to manage growth
Improve Recycling and composting

What we are looking at:

- Infrastructure maintenance and total cost of ownership
- Alternative capital funding models
- Public Private Partnerships (P3)
- Space optimization of existing facilities before building new
- Maintenance and renewal of existing facilities
- Energy Services Company Performance Contract 2 - Energy Centre
- Green buildings

4 Development Priorities

Healthy Living Education Initiative



Healthy Living Education Learning Boulevard

Wellness Programs

Specialty Simulation Training Centre for Eastern Ontario

Learning Enterprises

Research / Innovation Incubator

Business Partnerships

Welcoming the community to Algonquin College's Healthy Living Education Hub...

The Healthy Living Education initiative will create a high profile community-integrated learning and innovation hub where services and student learning connect through on-campus learning enterprises, businesses and organizations that provide services to promote healthy living.

The Healthy Living Education Initiative will:

- Prepare graduates with flexible skill set to respond to a changing delivery model; the right care, at the right time, in the right place.
- Align curriculum and create new programs to meet changing workforce needs related to health, wellness, and long-term care.
- Promote personal ownership for health, enhancing positive health outcomes through promotion and prevention programs.
- Connect with the community through on-campus learning enterprises and healthy living services delivered through business partnerships.
- Accelerate health care innovations to market through applied research.

Why?

- We face an aging population with multiple chronic health problems and mounting cost of delivery of care. The projected Ontario health care budget will rise from \$45 billion in 2010-11 to \$62 billion by 2017-18.
- There is a shift from hospital care to community-based and home-based models
- The role of nutrition and wellness on health outcomes



Wellness Programs

Wellness Programs

Holistic and integrated wellness programs in health sciences, community services, food and nutrition, digital health, and paramedic education:

- Program synergies enabling inter-professional collaboration and cross-sector learning

Specialty Simulation Training Centre for Eastern Ontario

Specialty Simulation Training Centre for Eastern Ontario

Specialized simulation training centre for home care, first response, and infectious disease control:

- Smart Apartment Simulation Lab
- First Response Simulation Suite
- Isolation Unit for Pandemic Training Simulation Lab

Research / Innovation Incubator

Learning Enterprises

College owned learning enterprises that offer health and wellness services to the community, including College students and staff:

- Learning and work experience for students in a real world setting

Business Partnerships

Business Partnerships

Health and wellness services offered by businesses that will provide work placement opportunities for students:

- Physiotherapy clinic, pharmacy, healthy food bistro
- Co-located businesses and possible future opportunities with major business enterprises such as a senior's residence or boutique hotel

Learning Enterprises

Research / Innovation Incubator

Further understanding of major wellness and healthy living challenges through applied research:

- Accelerate commercialization of business ideas through the business incubator

Our mission...

“Help Canadians Live Healthier Lives”

Our vision...

To be a model community-integrated learning and innovation hub addressing the skills and capacity need of health, wellness and long term care

FAST FACTS

Unhealthy dietary habits are estimated to have caused 64,000 deaths in Canada in 2010.

Senior citizens comprised 14 percent of the Champlain Local Health Integration Network population in 2011, and will comprise 25 per cent of the population by 2036.

Health care spending in Ontario is on track to grow from 40.3 per cent of total spending in 2010-2011 to 44 per cent in 2017-18.

22,000 more Nursing graduates are needed to replace retiring nurses.



Emergency Response Simulation

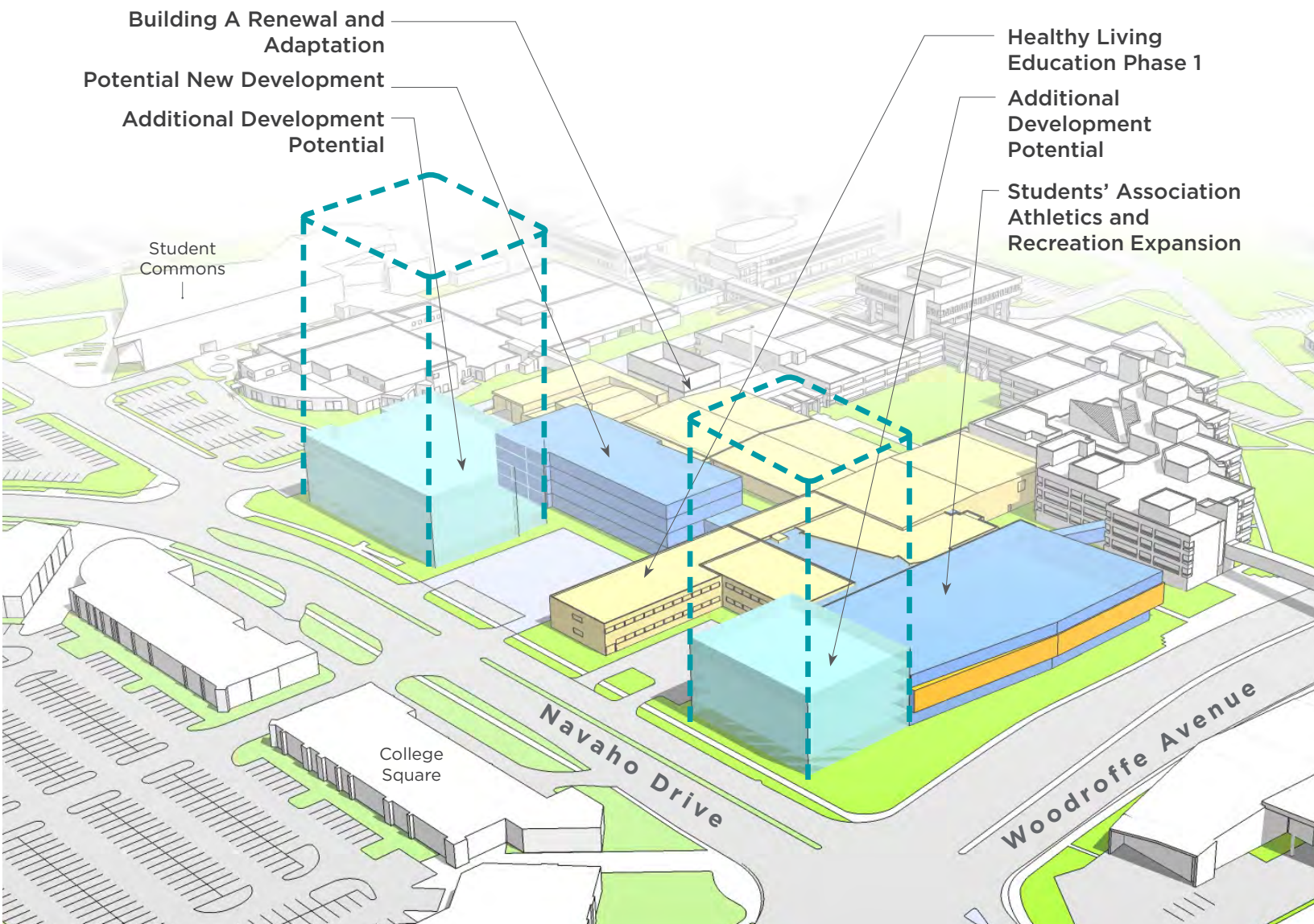


Dental Clinic



Test Kitchen and Nutrition

Building A Precinct Revitalization



Aerial view from corner of Woodroffe Avenue and Navaho Drive looking South-East - Massing Diagram

GROW

Phased redevelopment of Building A precinct to accommodate the Healthy Living Education Hub and the expansion of the Students' Association (SA) Recreation Facility.

- Healthy Living Education Hub
- A new, state-of-the-art Athletics and Recreation Centre is a priority for the SA and an important component of the Healthy Living Education initiative. Connection to the existing SA Fitness and Recreation facilities located in the Building A precinct is essential to this new facility.

ADAPT

Reconfigure and integrate into the Healthy Living Education Hub.

- The Healthy Living Education initiative is gaining momentum and has strong synergies with activity already located in Building A. Healthy Living Education Phase 1, the repatriation of activity from Confederation High School to Building A was implemented in Fall 2014. Existing specialized health simulation labs are also located in Building A.



Phased redevelopment of Building A precinct to accommodate the Healthy Living Education Hub and the expansion of the Students' Association Athletics and Recreation Facility

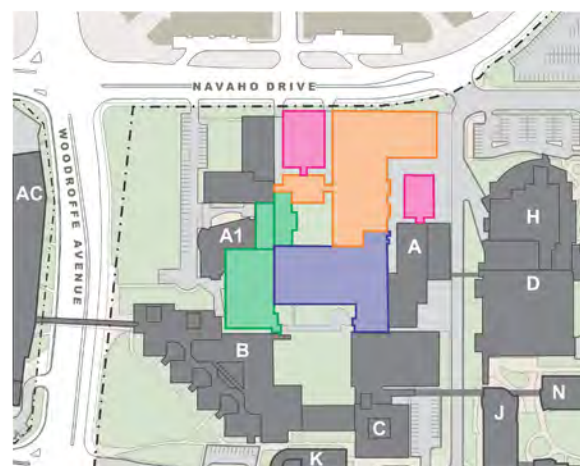


Pedestrian Friendly Development

RENEW

Building systems, envelope, and life safety upgrades together with selective demolition.

- Building A is one of the largest and oldest buildings on campus. Constructed in 1962 as a vocational school, the original building is 53 years old and has been added onto and modified many times over the years.
- Some portions of Building A were temporary additions and are now ready for demolition.
- Redevelopment of the northeast wing of Building A provides opportunity to enhance Algonquin's Navaho Streetscape and Woodroffe Gateway with a landmark building.
- Significant seismic upgrade requirements and deferred maintenance liabilities exist throughout the Building A precinct requiring a strategy of renewal, demolition, and redevelopment.



Renewal, Redevelopment and Demolition Plan

- | | |
|--|--|
| ● Demolish | ● Seismic Upgrades (redevelopment under review) |
| ● Demolish & Redevelop | ● Seismic Upgrades Required |

Building C Revitalization



“Welcome to Algonquin College” – The Public Face of Algonquin

ADAPT

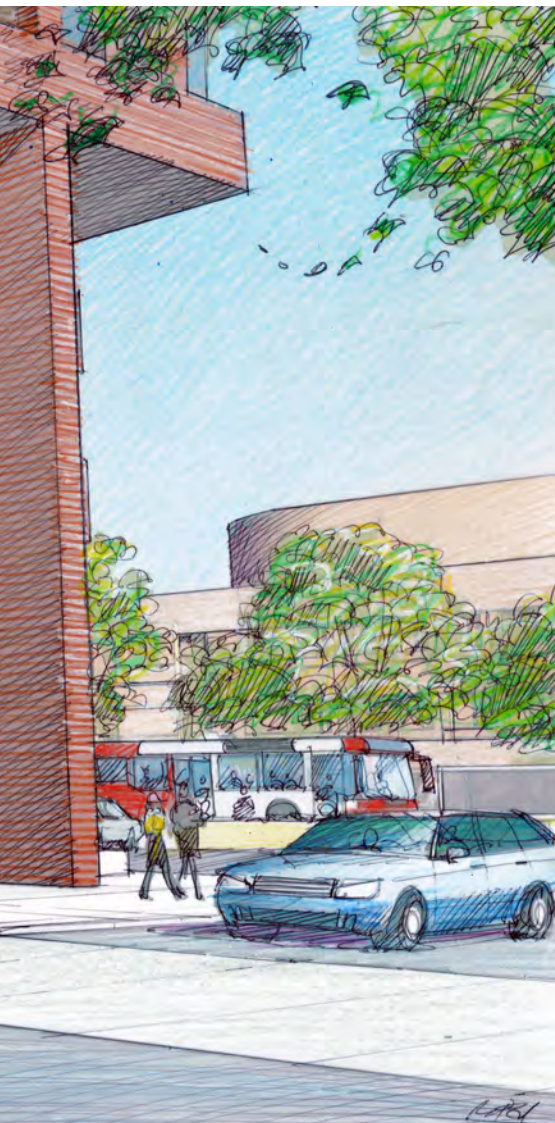
Building C is uniquely positioned to be a nexus for College identity and services. Reconfigure and reorganize the activity clusters in Building C to create:

- A physical “front door” for Algonquin that welcomes prospective students, visitors, and business partners
- An arrival experience which establishes the quality and identity of Algonquin
- A message of openness, transparency, and collaboration with our communities
- An academic heart: A renewed Library
- A one-stop hub of services, resources and incubation activity supporting academic and institutional success

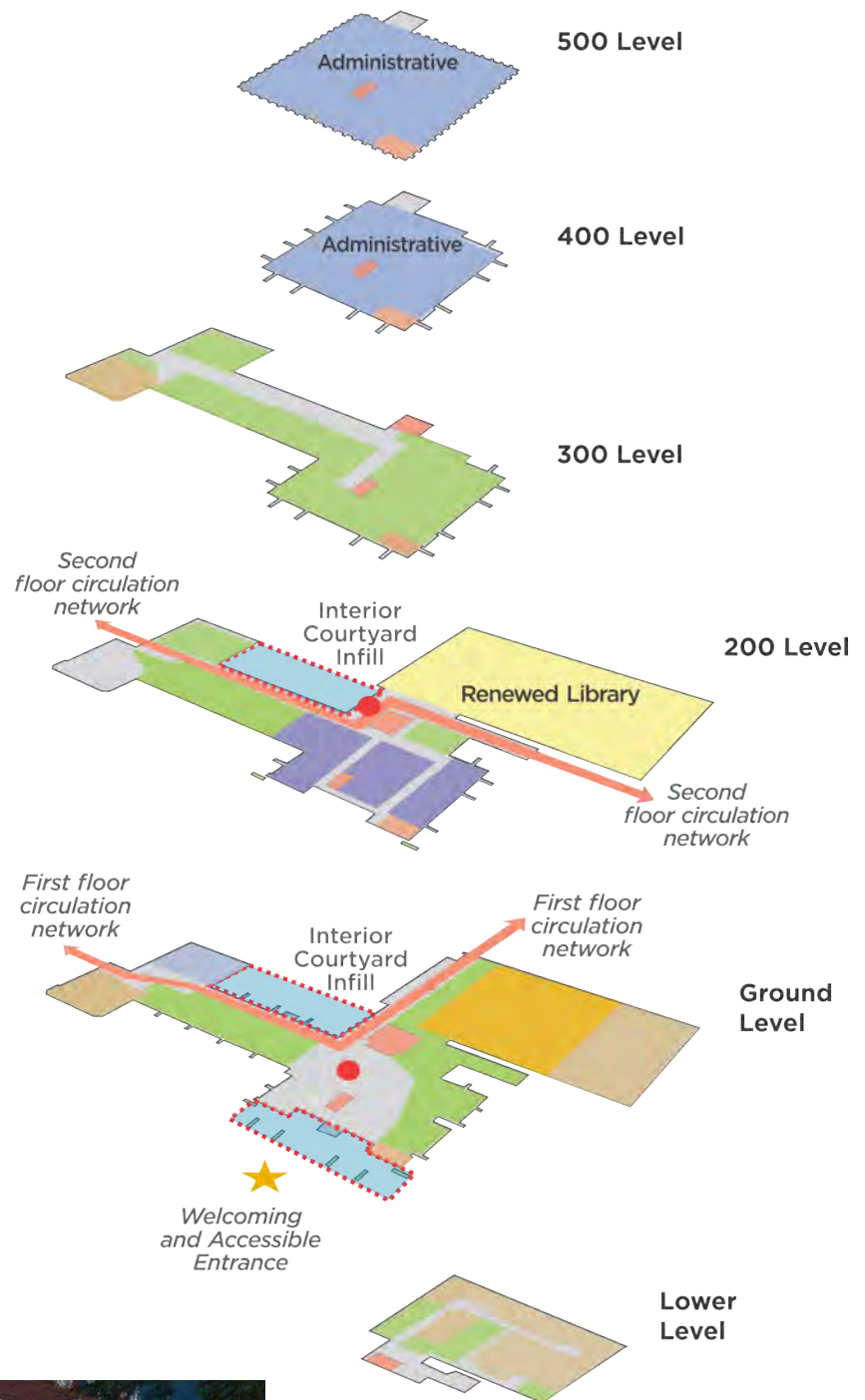
RENEW

Constructed in 1969, Building C is 46 years old and ready for a major renewal of systems, building envelope and interior spaces. Upgrading the building to meet high performance green building standards including; replacement of heating, ventilation and air conditioning units (HVAC) and renewal of HVAC distribution system, upgrades to building envelope and life safety systems, renewed interior finishes, and improved natural lighting.

The renewal of Building C is part of the Infrastructure Maintenance Strategy.



"Front Door" - Artist's Rendering



Night time "Front Door" - Artist's Rendering

Legend

- ★ Welcoming & Accessible Entry
- College Support Hub
- Addition / Expansion
- College Services
- Renewed Library
- Mobile Learning Centre
- Academic
- Administrative
- College Leadership
- Key Circulation

Transportation

Vision:

Forging pathways to connect the College and its communities

A thriving and dynamic educational institution must be served by clean, safe, efficient, and ultimately affordable transportation choices. Transportation is an enabler for learning and a way to connect the College to its communities.

TRANSPORTATION STRATEGY

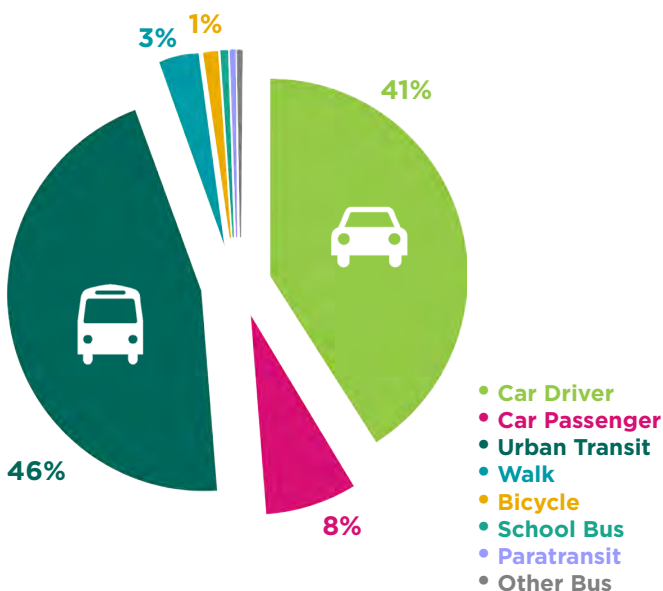
Connect Learning Environments: Accommodate the diverse needs of the College community and visitors by providing safe and accessible connections to, from, within and between learning environments.

Create an Inviting Campus: Create a pedestrian focused campus that is fun, welcoming, safe, and intuitive for the College and its communities.

Provide Sustainable Choices: Embrace sustainable transportation choices and innovative solutions that strive to maximize access to learning, minimize our ecological footprint, and are fiscally responsible.

As the College looks to the future, there is an opportunity to lessen the impact of travel by encouraging more sustainable modes of transportation and embracing smart growth principles. The extension of the Light Rail Transit system (LRT) to Baseline Station and increased density of the Woodroffe Campus give the College an opportunity to reshape the Campus by putting pedestrians and cyclists first, and imagining a campus defined by green and open spaces, rather than parking.

Current Modal Split Breakdown



CONNECT LEARNING ENVIRONMENTS

Improving the diversity and quality of transportation options is essential to enabling learning. Currently public transit and cars are the dominant mode of transportation, accounting for 87% of trips to and from campus, while the remaining 13% involve active transportation modes such as walking and cycling.

By continuing to work with transit partners to provide better pedestrian and cycling infrastructure and ensure the development of a true mixed-use community in and around the campus, staff and students will be able to reach the Woodroffe Campus by walking or cycling. Although public and active transit modes will be prioritized, the College will continue to support those that rely on their car.

CREATE AN INVITING CAMPUS

Creating an inviting campus begins with a welcoming travel experience for all modes of transportation and intuitive circulation within the campus.

The College will continue to develop a more pedestrian-oriented and cycle-friendly campus that promotes a safe, healthy, and enjoyable experience for all.

Wayfinding enhancements and pedestrian linkages will make it easier and safer to move around the campus. The pedestrian bridge across Woodroffe Avenue provides an enhanced connection to the current transit station and the future LRT station, and reduces the need for parking on the lands west of Woodroffe Avenue.



Pedestrian and Cyclist Friendly



PROVIDE SUSTAINABLE CHOICES

To lessen the environmental and health impacts of conventional transportation, it is important to provide alternative transportation choices.

As the area around the Woodroffe campus is built up, public transportation will continue to become more convenient and affordable. The College has undertaken a number of initiatives to boost transit ridership and provide new ways to access the campus, including:

- Partnership with OC Transpo to bring Route 118 onto campus (2011);
- A new pedestrian bridge over Woodroffe, connecting Baseline Station and ACCE to Building B (2011);
- The introduction of the U-pass, a discounted bus pass for students, beginning in September 2015;
- Cycling infrastructure expansion to include over 700 bike racks, as well as bike repair stations; and,
- Car sharing programs on campus.

The College will continue to pursue new ways to access the campus, including:

- LRT service expansion to the Baseline Station, anticipated in 2023; and,
- Online courses that will lower accessibility demands to on-campus learning.

In addition to enhancing sustainable transportation choices, careful consideration of single occupancy vehicle access and parking is needed. Parking is an issue at the Woodroffe Campus. Although the current parking supply on campus is well in excess of the City of Ottawa's parking by-law requirements, the parking supply in relation to student population is one of the lowest in Ontario and innovative parking solutions need to be explored to meet the needs of students and staff.

THE NEXT FIVE YEARS:

TRANSPORTATION

- Active Transportation Plan
- Integrated Traffic Management Plan
- Physical and Digital Connectivity Tracking Plan
- Transit Strategy
- Parking Strategy
- Design Guidelines for Green Infrastructure for Roads and Parking
- Smart Travelling Campaign

Campus Arrival



Digital - Algonquin homepage as the first entry to the College

First Impressions: Portals, Gateways and Entries

Visitor arrival to Algonquin College is first through the college website portal.



Physical gateways identify main points of entry onto campus, and contribute to Algonquin's public image and branding. Gateways can act as community gathering spots and can provide focal points which act as landmarks to assist in the overall legibility and navigation of the campus.

Gateways and entries provide opportunities to connect the campus with the surrounding community and city.

Key Woodroffe Campus gateways include:

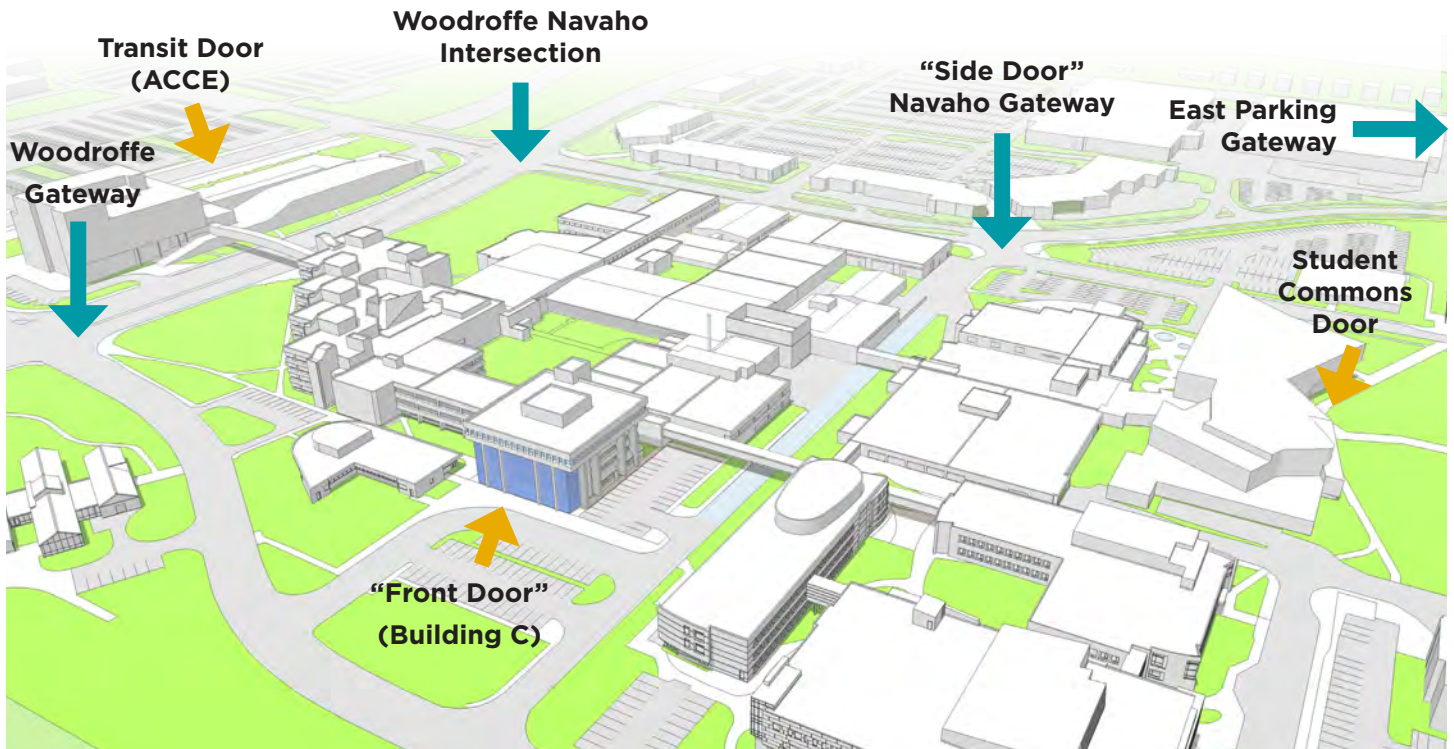
- Woodroffe Gateway – The most formal of the campus gateways leads to Building C, the campus “front door” and main administrative building.
- Navaho Gateway – Sometimes referred to as the campus “side door”, Navaho gateway gives access into the centre of campus.
- East Parking Gateway – Provides the most direct route to and from the main parking lots, acting as the campus “back door”.

PORTALS, GATEWAYS, ENTRIES...

...establish Algonquin's place in the community and the world. They are the first impressions in the experience of campus life and become markers in the memories of our students, alumni, and community.

Exploratory Guiding Principles

- **Contribute to College image and identity**
- **Promote student success**
- **Enhance a sense of location and arrival**
- **Integrated and sustainable**
- **Connected with community**



Campus Gateway and Building C Front Door Context - Aerial View looking North West

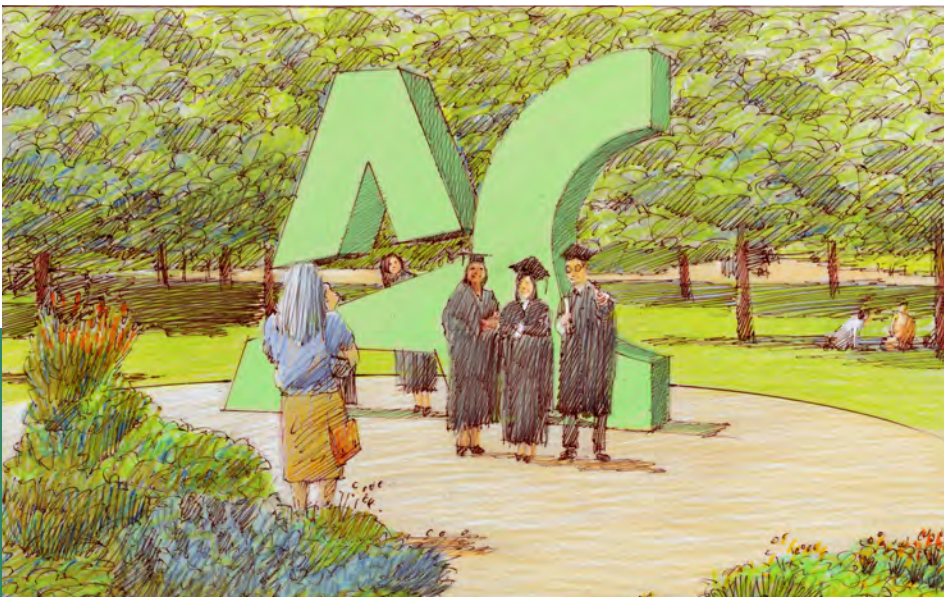
Key visitor points of arrival on Woodroffe Campus include:

- Transit door – Algonquin Centre for Construction Excellence
- Front door – Building C
- Student Commons door – Robert C. Gillett Student Commons

THE NEXT FIVE YEARS:

ARRIVAL

- Establish strong public face for the College - "Front Door" Building C
- Invite the public in
- Entrance gateway signage



Memorable Places on Campus



Campus Arrival

Campus Wayfinding

Vision:

The Wayfinding solution for Algonquin reinforces the innovative and dynamic nature of the College, supports student success by easing their transition onto the Campus and fosters autonomy of movement through the College fabrics – both physical and virtual.

A welcoming and easy to navigate campus supports students and staff in their everyday activities and movement, and entices visitors and members of the community to come to the campus.

Deploy Wayfinding across the Woodroffe Campus

The existing Wayfinding Strategy sets out a vision, and a set of guiding principles for wayfinding. Design



Wayfinding Signage in the Student Commons

guidelines for physical signage at Algonquin College has been completed and deployed at the Perth and Pembroke Campuses. At Woodroffe Campus, physical wayfinding signage has been deployed in the Student Commons and Algonquin Centre for Construction Excellence. Lack of wayfinding signage remains a significant issue at Woodroffe according to feedback from students and staff.

WAYFINDING STRATEGY

Image of Algonquin: Reinforce the image of the College in its innovative and dynamic nature using leading edge materials and techniques that are timeless and demonstrate value to the College and community.

Student Success: Support student success by building familiarity with the campus environments (physical and virtual), by being intuitive and easy to understand, allowing students to focus on learning and enhancing their Algonquin experience.

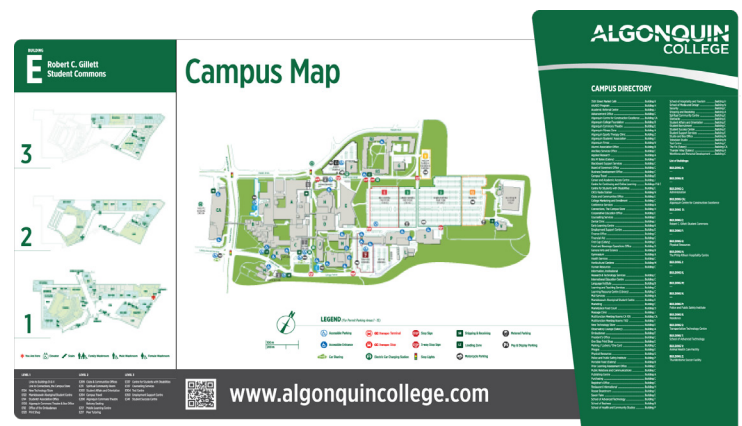
Diversity: Universally accommodate the diverse needs of all College community members and visitors to the College.

Integration and Sustainability: Be integrated with the physical and virtual College in its design, environmentally responsible in composition and consider life-cycle implications in its design.

Community Outreach: Welcome and orient visitors to Algonquin and encourage spontaneous exploration and discovery of what Algonquin has to offer.



Sample Wayfinding Signage





Digital and Physical Wayfinding

**Create a
campus that is
welcoming and
easy to navigate**

THE NEXT FIVE YEARS: WAYFINDING

- Deploy the physical wayfinding system across campus
- Digital Wayfinding app

Clearer signage and digital wayfinding tools will help people move around the Woodroffe Campus more efficiently and make the campus experience more enjoyable for students, staff, and visitors.

Campus Experience - Beautification



Beautiful outdoor spaces

Design Attractive College Spaces

The Woodroffe Campus is the setting for important learning and social experiences. The quality of the environment helps to attract and retain students, staff, and community partners. The concept of beautification is concerned not only with aesthetic improvement, but with how campus spaces - indoor and outdoor - can be designed and programed to best contribute to student and staff experience.

Buildings constructed on campus in the past five years (ACCE and Student Commons) were designed through an innovative process which targeted high aesthetic, functional, and performance standards which resulted in exceptional facilities. These buildings are treasured by students and staff not only for the state-of-the-art facilities they provide, but as favourite spaces to spend time in, or simply walk through.

There are limited areas that are beloved as interior open space or exterior landscape. Some older buildings are in need of significant maintenance and aesthetic upgrades, such as the legacy buildings A, B, and C. Renewal of these facilities will bring opportunities for beautification.

Pleasant courtyards, daylight, vegetation, and water features are enjoyed both indoors and outdoors. New and rejuvenated buildings should let the sun shine in and afford views to outdoor green spaces. Exterior views can be enjoyed throughout the year and significantly contribute to intuitive wayfinding and orientation as one moves between classes and campus activities.

Water is an attractive and desirable site feature, providing beauty and opportunities for special outdoor spaces on campus. Exposing Pinecrest Creek (currently buried under parking lots) to flow through campus is a unique potential opportunity.



Water features on Campus



Winter Outdoor Social Activity in Building C Courtyard

Landscaping can help create memorable first impressions and foster appreciation for the natural environment.

The gardens surrounding the horticulture building are examples of beloved campus landscape. Cohesive landscaping across campus would provide unity to the built environment and encourage students and staff to spend more time outdoors, in all seasons. Rejuvenated and well programmed outdoor spaces will increase outdoor activity and vitality.

Architectural branding and refreshment of key nodes in existing buildings has brought unity and cohesion to the indoor environments across campus with fresh materials, signage, and the Algonquin College colours. Opportunities for beautification are not only in large scale new building and landscaping projects, but also in smaller interventions within existing buildings.



Algonquin Centre for Construction Excellence

THE NEXT FIVE YEARS: BEAUTIFICATION

- Develop a landscape strategy for the open and in-between spaces on campus
- Rethink Building C courtyard as a healthy living and active lifestyle hub and respite area... smoke free
- Leverage maintenance projects with beautification initiatives to improve the quality of the campus experience

Algonquin College is committed to creating model learning, working, social, and living environments for a 21st century campus in a continuum of physical and digital space.

Learning Environments

Space (physical and digital) is where students, knowledge and experience meet.

Mobile Learning

Algonquin has embraced mobile learning. The majority of programs at Algonquin are BYOD (Bring Your Own Device). The learning experience is enhanced through the use of online and mobile technologies in and out of the classroom, allowing students to work with course materials, participate in collaborative online environments and become skilled, confident users of technology. This method of program delivery has been phased in over several years and is having a profound effect on the learning environments at Algonquin:

- Classrooms and labs have been enhanced with standardized technology
- Desktop computers are rapidly being displaced by student-owned mobile devices
- The provision of informal individual and collaborative study spaces has increased dramatically
- Active learning spaces have been piloted with great success

Hands-On Vocational Learning

Algonquin emphasizes vocational learning. Online and mobile technologies offer innovative and effective digital space solutions. However, specialized physical learning spaces will continue to form the core of the students' learning experience.

Experiential Learning / Work Integrated Learning

Algonquin College recognizes that experiential learning enhances the achievement of vocational learning outcomes and strengthens the attainment of essential employability skills. Algonquin College depends on its community to provide students with new learning opportunities and real-world work experiences. The community also relies on the College. Algonquin is looking to increase learning enterprises (revenue generating learning environments) and co-located private business enterprises on the Woodroffe campus clustered in "learning boulevards" open to the public.

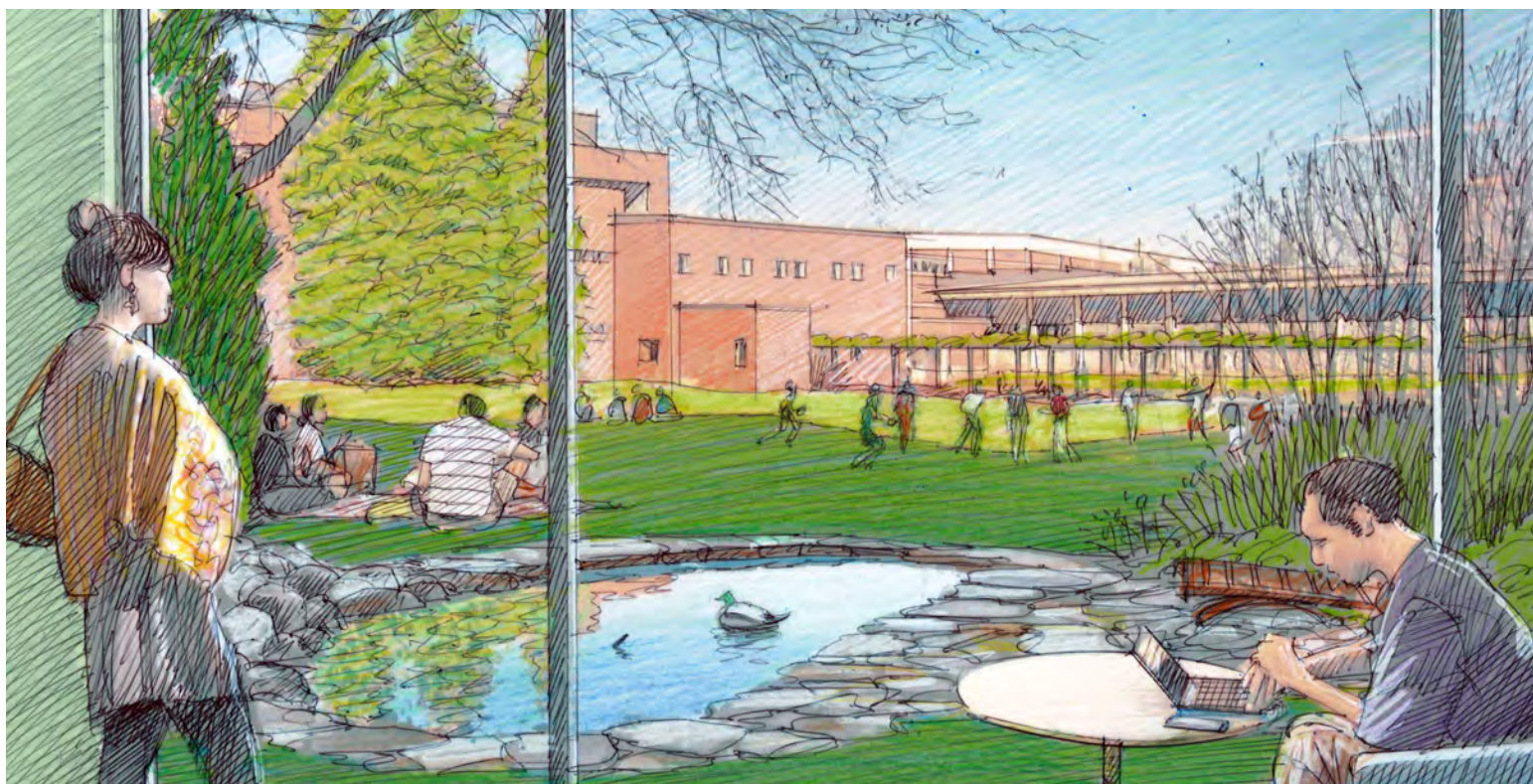
Working Environments

Create open and flexible work environments that will enable mobility, optimize space, and provide better opportunities to collaborate and connect.

Traditional guideline-based assignment of work stations no longer meets the College's emerging needs. Through innovative pilot projects, Algonquin College is exploring opportunities to create more attractive and healthier work environments that offer increased effectiveness, choice, engagement and collaboration while making more efficient use of limited space resources.

Flexible learning and working environments for Students and Staff with digital access, daylight and views.





Indoor and Outdoor Learning and Social spaces

Social Environments

Enhance social and recreational spaces to encourage students, employees, and visitors to lead healthy, active lives and increase serendipitous encounters across the Campus.

The social and recreational experience on campus contributes significantly to Algonquin College's success. The Students' Association has played an essential role in building this dimension of student life.

The Student Commons, opened in Fall 2012, has created a vibrant social heart on the Woodroffe Campus. Interior and exterior spaces and in-between spaces are being programmed to create quality social experiences and to enable chance encounters between students, faculty, staff, and visitors.

Beginning in the 1990s, the Students' Association has funded a growing portfolio of athletics and recreational facilities: Gym, Fitness Zone, Impact Zone, Sports Field and Field House. Discussions are underway for an expansion of the athletics and recreation facilities in Building A that would align with the Healthy Living Education hub.

Living Environments

In the period 2000 to 2002, Algonquin built three phases of on-campus housing to accommodate up to 1050 students. A conceptual precinct study, completed in 2001, identified opportunities for the phased future doubling of this capacity up to 2100 students. Since that time, market conditions have not warranted the construction of additional on-campus housing and are not anticipated to change in the short-term.

The College is continuing to collaborate with community partners to maximize the effectiveness and quality of off-campus housing opportunities for Woodroffe students. The College will monitor off-campus market demand to understand opportunities, student needs and demand for future increased on-campus housing.

THE NEXT FIVE YEARS: COLLEGE ENVIRONMENTS

- Enhance learning environments
- New collaborative work environments
- Multi-year plan for residence refurbishment
- Expansion of athletics and recreation facilities

Infrastructure Maintenance Strategy



Facility maintenance is a key part of responsible stewardship

Proper facility maintenance maximizes the life span of buildings and infrastructure and promotes their optimal operation. When routine repairs and preventative upkeep are delayed, often due to financial limitations, buildings deteriorate. The resulting decline in appearance and operations of the facilities diminishes the quality of the learning, working, social, and living experience on campus.

As is the case with many Canadian post-secondary institutions, deferred maintenance at Algonquin College has become a serious and urgent issue. A third party audit of the condition of the facilities at Algonquin College in January 2014 found that:

At Woodroffe Campus:

- The average building Facility Condition Index was 0.14 - Poor.
- An estimated \$86.8 million would be needed to restore the facilities to original condition.

While already experiencing financial pressures to address current and deferred maintenance needs, the College has yet to face the bulk of renewal costs. Additionally, with 51% of the Woodroffe Campus built since 1996, many of the newer building sub-systems are approaching their end-of-life points and will require renewal within the next five years.

Algonquin College has initiated an Infrastructure Maintenance Strategy to address the critical and urgent deferred maintenance needs as well as the ongoing maintenance and renewal of existing facilities so the College spaces are kept in safe, and good condition.

Good stewardship of the facilities and infrastructure is vital to the strategic success of the College which is committed to providing students and staff with quality environments.

INFRASTRUCTURE MAINTENANCE STRATEGY

The Infrastructure Maintenance Strategy provides a comprehensive planning tool for the operations, maintenance, and renewal of existing facilities and infrastructure.

The College will consider the total cost of ownership or the total life cycle costs of a physical asset, including: construction, operation, maintenance, ongoing repairs, renewal, renovation, and disposal. The initial construction quality and timely maintenance are key factors in helping reduce the total cost of ownership.

The Infrastructure Maintenance Strategy aims to:

- Create future financial capacity in our internal reserves.
- Leverage innovative private sector investments in energy related infrastructure.
- Use risk-informed evidence and metrics to decide how and when to invest in repairing and renewing the existing infrastructure.
- Promote an advocacy campaign for increased public spending for infrastructure renewal.

Good stewardship of the facilities and infrastructure is vital to the strategic success of the College

The Facility Condition Index (FCI) is calculated by dividing the deferred maintenance value (cost of repairs for a building) by the current replacement value (the cost to replace the entire building).

The third party audit of the buildings and pedestrian links at Woodroffe Campus in January 2014 found that about 60% of the buildings were assessed as being in fair or good conditions, while 40% were assessed as being in poor condition.

Investment is needed to address the seismic safety and the critical deferred maintenance of the buildings identified as being in poor condition on Woodroffe campus, while maintaining the condition of the remaining buildings.

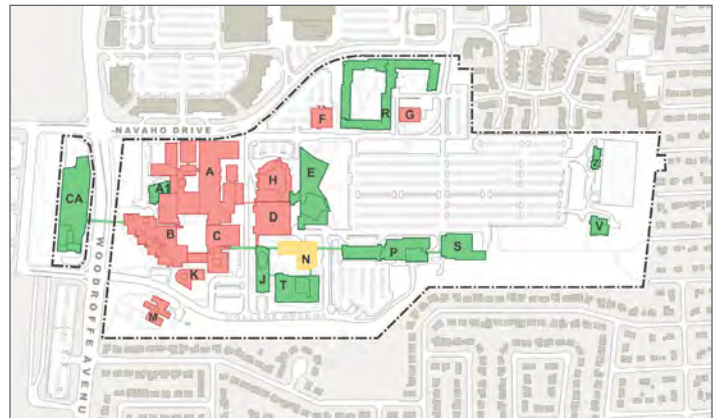
FCI Legend:

- Good (<0.05)
- Fair (0.05 - 0.10)
- Poor (>0.10)

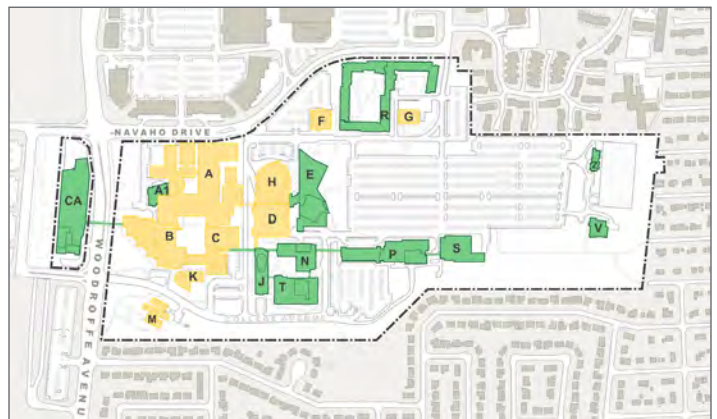
Target Infrastructure Maintenance Investments at Algonquin College (Woodroffe, Pembroke, Perth Campuses)	Funds (\$)
Current Deferred Maintenance (DM) Liability for Algonquin College	\$87.3M
Target maximum DM value to achieve average FCI < 0.05 (Good)	\$35M
One-time Investment needed to reduce DM liability to \$35 million	\$52.3M
Annual Investment to operate, maintain, renew (and maintain DM liability at \$35 million)	\$14M
Annual Investment needed to adapt existing spaces	\$3.5M

THE NEXT FIVE YEARS: INFRASTRUCTURE MAINTENANCE

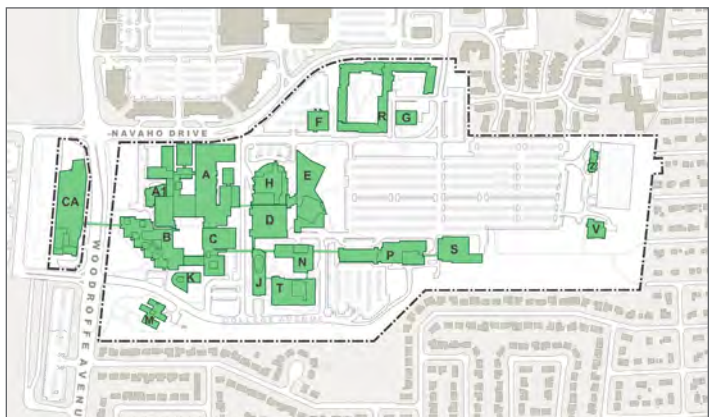
- Infrastructure Maintenance Strategy
- Critical deferred maintenance and renewal requirements



Current FCI of Woodroffe Campus Buildings



Conceptual FCI in the mid-term



Conceptual FCI in the long-term

Energy is fundamental to the daily operation and the strategic success of any institution. Algonquin College's innovative approach to current and future energy challenges goes beyond traditional energy management strategies, which focus solely on energy efficiency and conservation measures. The College is taking a broad visionary approach that looks at:

- Emerging education opportunities;
- Energy demand management;
- Stewardship and resiliency of energy infrastructure; and
- New technologies to help transition to net-zero energy use by 2042.

Algonquin College is paving the way to a clean energy future through strategic industry partnerships and collaboration with the Provincial government and other Higher Education Institutions to support Ontario's Long Term Energy Plan.



Vision:

AC Unplugged: Educate, collaborate, operate, and innovate for a clean energy future

TIMELINE: Innovative and Sustainable Approaches to Energy

2006
ESCO 1 Launch - Partnership with Direct Energy
10-year \$6 million Energy Performance Contract to retrofit and upgrade energy equipment

January 2014
ESCO 2 Launch - Strategic Partnership with Siemens Canada
20-year \$51 million strategic partnership for energy management and education

2013 - 2015
Phase 1 and Phase 2 of ESCO 2
Retrofit of older heating and ventilation systems, lighting fixtures, campus energy awareness, and sustainability programs

December 2015
ESCO 2 - Phase 3
Opening of Energy Centre with 2 megawatt Cogeneration plant for electricity and heat generation

ESCO 2 - Final Phase 4
In development. Includes additional energy conservation measures, on-site power generation, power storage, and Electric Vehicle charging technology.

ENERGY STRATEGY

The Energy Strategy and includes four broad areas of focus to guide future energy-related decisions.

Build and Maintain Energy Awareness:

Create a culture of energy awareness by engaging the college community and inspiring action and teamwork.

Practice Sustainable Energy Stewardship:

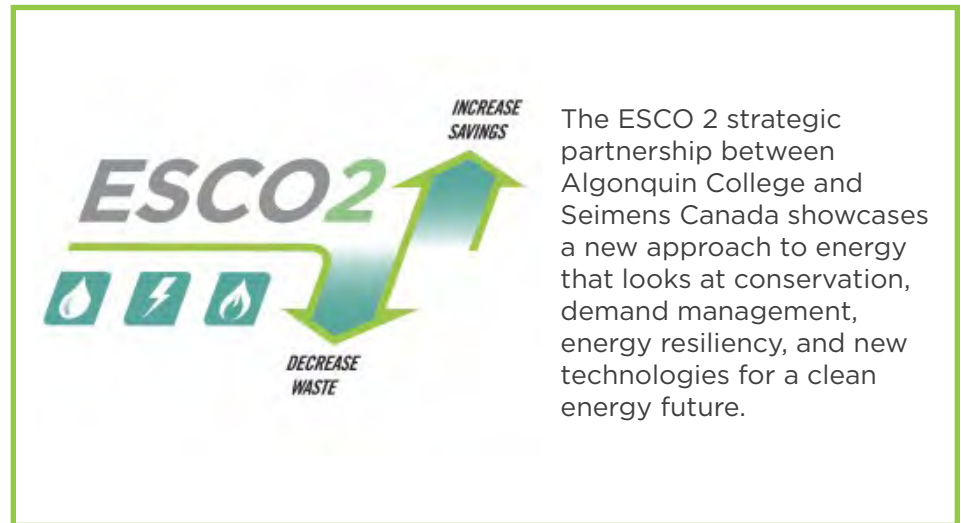
Motivate the college community, stakeholders, and strategic partners to use energy sustainably.

Future-proof our Infrastructure:

Create building and energy infrastructure that will be resilient to external changes and risks, support the long-term transition to a clean energy future, ensure capacity to accommodate the anticipated growth of the College

Leverage Innovations in Energy:

Provide leadership by embracing innovative energy technologies and partnerships to support and stimulate the clean energy economy.



Demonstration Photovoltaic Installation at Algonquin Centre for Construction Excellence

BUILD AND MAINTAIN ENERGY AWARENESS

The College has an opportunity to influence energy consumption and everyday activities of over 20,000 students and 4,000 staff. Energy and Sustainability awareness programs include:

- A Sustainability coordinator (as part of ESCO 2 initiative) responsible for embedding sustainability in day-to-day operations
- New courses about energy management, renewables, and emerging energy topics

FUTURE-PROOF OUR INFRASTRUCTURE

With the exception of the ACCE building, the infrastructure at Woodroffe is reliant upon a single 44kV primary electrical feed. This has been identified as a risk, but replacing the feed would come at great cost. Algonquin College is building resilient infrastructure, critical to securing energy independence, and reducing reliance on the power grid. Initiatives include:

- Retrofit of older heating and ventilation systems (such as the 2014 \$10.9 million retrofit in Building B), responsive lighting controls and fixtures to improve energy efficiency;
- Algonquin's Energy Centre: an on-site 2 Megawatt engine combined heat and power generation (COGEN) facility that will produce electricity and heating for the Woodroffe campus; and,
- Green building LEED (Leadership in Energy and Environmental Design) policies for energy efficiency of new construction and major renovations.

PRACTICE SUSTAINABLE ENERGY STEWARDSHIP

Algonquin College aims to reduce Scope 1 and Scope 2 greenhouse gas (GHG) emissions by 20% from the adjusted fiscal year 2010-2011 baseline emissions, and achieve net zero emissions by the College's 75th anniversary in 2042. The 2014 Conservation and Demand Management Plan lays out the approach to manage energy initiatives and to report energy consumption and greenhouse gas emission annually to the Ontario Provincial Government.

LEVERAGE INNOVATIONS IN ENERGY

As new energy initiatives are advanced, the College will continue to develop applied learning and research opportunities for students and staff. New buildings, such as the Algonquin Centre for Construction Excellence (ACCE), offer access to live building performance data and leading edge technologies such as smart grids, lighting, and clean energy.

THE NEXT FIVE YEARS: ENERGY

- New educational programming to meet industry needs
- Exploration of a Centre of Applied Energy Innovation
- Implementation of ESCO 2 Phase 3 and Phase 4 initiatives, including the completion and commissioning of the Energy Centre

Clean water is a finite resource that must be cared for

Water resources are undervalued as a finite resource, Canadians pay less for water and waste more than most nations.

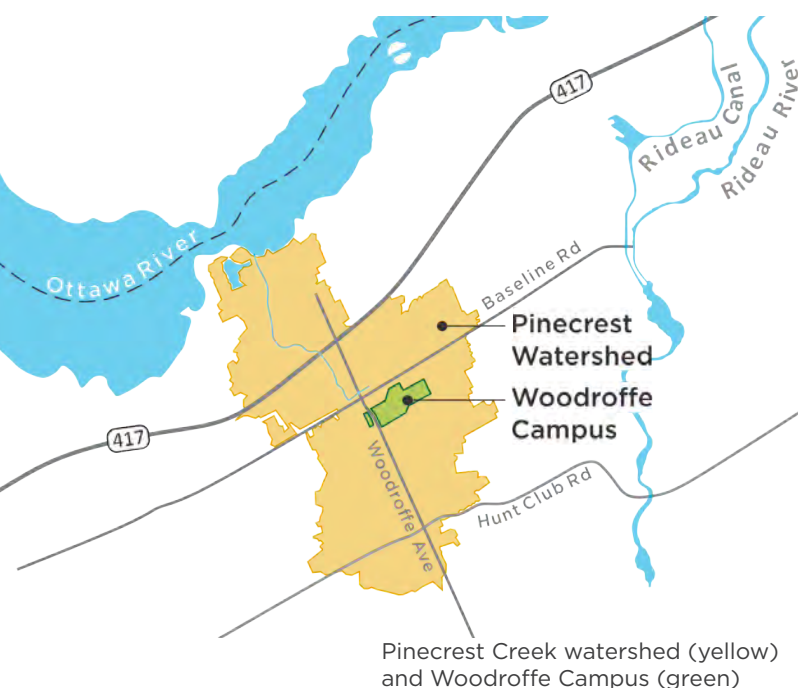
Algonquin recognizes that responsible stewardship of water goes beyond the water delivered to our taps and drinking fountains; it also includes stormwater management, wastewater treatment, and the role water plays in supporting biodiversity, recreation, and economic activity.

Water awareness and water resource management strategies are essential for the responsible stewardship of water and future-proofing the College against the inevitable rising costs of water delivery.

To guide future water conservation and stormwater management, the College will develop a **WATER STRATEGY**. As part of this strategy, a vision and a set of Guiding Principles will be established.

WATER AWARENESS

With a population of over 20,000 at the Woodroffe Campus, the College has an opportunity to influence the behavior of the next generation, and ultimately reduce water use and costs. The College can educate students and staff about current water saving measures and the importance of protecting water as a finite resource.



WATER RESOURCE MANAGEMENT

Water Conservation

A number of advanced water conservation strategies have already been implemented at Woodroffe campus through the ESCO 1 initiative and the design and construction of green buildings. The Algonquin Centre for Construction Excellence (ACCE) building includes rainwater harvesting and grey water reuse systems, as well as low flow plumbing fixtures and drought tolerant plantings.

Stormwater Management and Waste Water

The City of Ottawa has a new stormwater strategy and stringent servicing and stormwater management criteria that must be met before new development can occur at Woodroffe Campus. Sanitary sewer capacity limits in the municipal system must be understood in order to plan future infrastructure needed to serve a growing campus.

Woodroffe Campus is the largest single property in the Pinecrest Creek watershed. Population growth and the addition of buildings on campus presents both a challenge and an opportunity. Strategies that will be considered within the new Water Strategy include:

- Green roofs to slow down the rate of stormwater leaving the campus following a rain event;
- Rainwater harvesting and grey water re-use to reduce overall water consumption and stormwater runoff volumes;
- Low impact development strategies, such as bioswales, to address downstream water quality and quantity to preserve and enhance Pinecrest Creek; and,
- Applied research to better understand on-campus applications.



Water features on campus



Exposed Pinecrest Creek flowing through campus

Water infrastructure presents an opportunity for campus beautification. Exposing Pinecrest Creek, which is currently buried beneath the parking lots, would reconnect the College to its past, increase awareness about water and add a beautiful natural feature to the campus. The rivers of the Ottawa region are important to Aboriginal culture. A water feature could incorporate designs that acknowledge the Aboriginal heritage of Algonquin College.

THE NEXT FIVE YEARS:

WATER

- College Water Strategy
 - Rainwater harvesting and grey water reuse
 - Green Infrastructure: Low Impact Development
- Woodroffe Campus Stormwater Management Plan
- Deployment of a Stormwater Management Solution at Woodroffe
 - Water as a campus feature
- Water demand and wastewater flow analysis



5 Summary

Summary



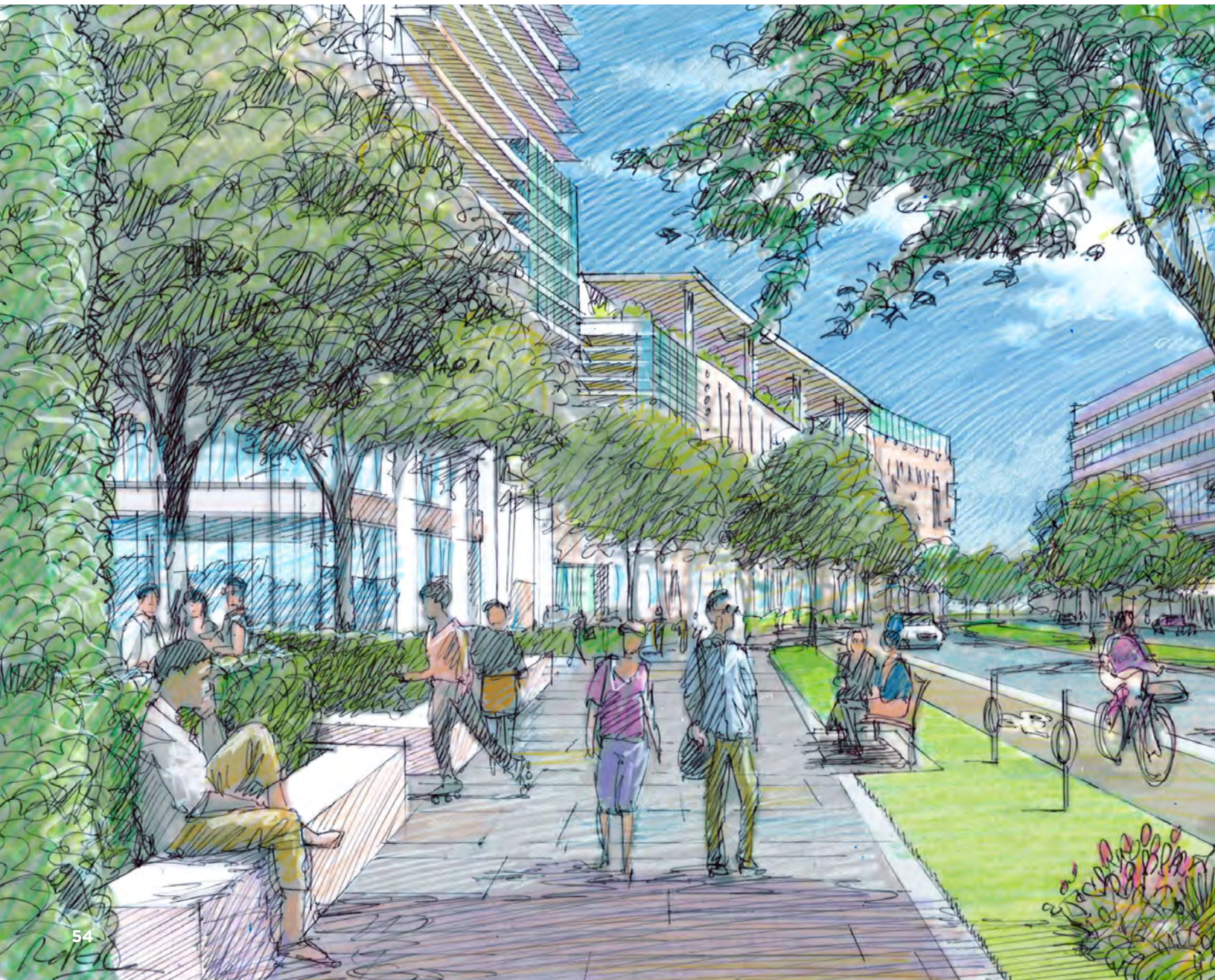
ACTIVATE OUR COMMUNITIES FOR LEARNING

Cultivate connections with our internal and external communities to establish collaborative and dynamic learning environments both on and off campus.



INTEGRATE INTO OUR COMMUNITY FABRIC

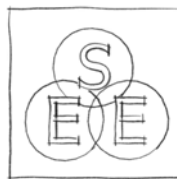
Transition the campus to become an outward facing, dynamic and urban asset at the heart of our community, with the physical and digital infrastructure to enable anytime, anywhere access to learning, social and economic activity.





DESIGN ATTRACTIVE COLLEGE SPACES

Create inspiring and dynamic spaces that support vibrant and rich learning, working, social, and living experiences on campus.



ACTIVELY STEWARD RESOURCES

Sustainably manage existing facilities and growth to maximize value today and into the future.

Vision

A 21ST CENTURY CAMPUS WHERE PEOPLE, PRACTICE, AND POSSIBILITIES MEET



Artist's Rendering of long-term vision for Navaho Drive

Integrated College Development Planning Steering Committee

Executive Sponsor:

- Duane McNair, Vice-President, Finance and Administration

Co-Chairs:

- John Tattersall, Director, Physical Resources
- Michael Gawargy, Director, Information Technology Services

Steering Committee Members:

- John Dalziel, Head of Major Construction
- Cathy Dempsey, Director Finance and Administrative Services
- Jack Doyle, General Manager, Students' Association
- Barb Foulds, Dean, Faculty of Health, Public Safety, and Community Studies
- Mark Hoddenbagh, Executive Director, Partnerships & Applied Research
- Eric Hollebone, Director, Marketing and Recruitment
- Kimya Keyhan, Acting Director, Community Partnerships and Engagement
- Glenn MacDougall, Director, Learning and Teaching Services
- Rod Martin, Manager, Infrastructure Services Team
- Joe Ranieri, Director of Business Development and Corporate Training
- Phil Rouble, Associate Director of Facilities Planning and Sustainability
- John Smit, Manager, Policy Development and Urban Design, City of Ottawa
- Julia Wilson, Manager, Algonquin Foundation
- Emily Woods, Manager, Business System Team

Consultant Team:

- GRC Architects
- BuildGreen Solutions
- Morrison Hershfield

