THE UNIVERSITY OF WASHINGTON SOUTH CAMPUS STUDY ANALYSIS AND EXISTING CONDITIONS

DRAFT REPORT





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Figure 1: Aerial view of South Campus, looking east

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SECTION 2 / PROGRAM ANALYSIS



Figure 2: Current vs. Need GSF

SECTION 3 / EXISTING CONDITIONS

Figure XX: Site Capacity



SECTION 1 / OVERVIEW 1 / OVERVI

We envision a great setting that provides world class resources to advance the Educational, Research, Service, including clinical, missions of all by facilitating and supporting the following guiding principles in the environmentally sustainable development of the physical and landscape space of the South Campus.

Improve CONNECTIVITY (facility) + COLLABORATION

- Create innovative, collaborative and interactive spaces for students, faculty, industry, regional and global partnerships
- Provide viable density for growth and contiguity to allow for maximizing open space and access to natural daylight
- Support accessibility through a combination of multi-modal transportation and linkages to off-site collaborators (HV, SLU, Fed agencies)

Emphasize DIVERSITY

- Enrich campus & student life through the creation of respectful learning environments
- Bringing together unique and diverse cultural perspectives strengthens different ideas, creativity and discovery
- Provide for flexibility by breaking down physical and perceived barriers

Establish SENSE OF PLACE

- Create an interior sense of place to help identify individual schools and departments and outside through landscape, open space and reinvigoration of the waterfront
- Develop an environment with inviting uses and encouraging an increased sense of community through shared use for all stakeholders
- Reimagine South Campus as a destination through enhanced artistic & cultural experience

Promote PERSONAL WELL-BEING

- Emphasis on access to resources that promote physical and mental health for recreation and convenience
- Create spaces for social interactions to promote learning, discovery and innovation
- Stewardship and protection of the site and unique environments

Strategically BALANCE EXISTING AND FUTURE RESOURCES

- Maximize the use of the resources such as land, waterfront and open space through environmental and fiscally sustainable infrastructure
- Plan for density of facilities adequate to achieve the mission of the Guiding Principles and the goals and activities of all stakeholders within and surrounding South Campus

- 1. IMPROVE CONNECTIVITY to foster COLLABORATION and support DIVERSITY
- 2. CREATE A SENSE OF PLACE and PROMOTE PERSONAL WELL-BEING
- 3. Strategically BALANCE EXISTING AND FUTURE RESOURCES

GOALS

The South Campus is a place of extraordinary potential and must add value to the whole campus and enhance the UW mission. In addition to the Guiding Principles, the study process identified the following goals that must be applied to every planning scenario studied.

Maximize Collaboration opportunities

- Internal connections
- Interprofessional Education (IPE)
- UWHS / UWMC adjacency
- Central gathering spaces
- Connections to adjacent zones
 - West:
 Skamania Lane
 - Waterfront
 - Pacific Street
 - Existing bridges
 - Pacific Street
 - New pedestrian path under the Montlake Bridge
 - Waterfront
 - Pacific Street
- Improve
 - Waterfront

• North:

• East:

- Open Space framework and public realm
- Edges (NE Pacific Street)
- Pedestrian experience
- Accommodate
 - Health Sciences program (6.5M gsf)
 - Parking Need (1,790 2,830 stalls)
- Minimize Vehicular/Parking/Service presence
- Ensure Feasibility and the implementation is possible given physical constraints and phasing

CONSTRAINTS

A number of constraints also must be assumed with every scenario.

- Phased Development over time
- **Programs** to be accommodated with minimal interruption (only one move if possible)
- Vehicular Access + Parking
 - New Pacific St. access required to accommodate growth
- **Daylight** access to greenhouses at the new Life Sciences Building across NE Pacific Street
- **Upzoning** to be explored
- Current Zoning to be studied as part of the recommended plan to identify which units might have to move off of South Campus
- Shoreline Management Act regulations
- Montlake Corridor requires increased capacity
- Timing and Extend of Funding is unknown
- Existing Infrastructure capacity and condition to be addressed (utility expansion required)
- No Obvious Surge Strategy

SECTION 4 / PLANNING ALTERNATIVES

UPZONING AND PROPOSED BUILDING HEIGHT

Existing regulatory conditions as set by the 2003 UW Campus Master Plan cannot accommodate the total future needs identified in *Section 2*. Current zoning and shoreline regulations allow for only a total of approximately 5.2M gsf. This would require some functions to move outside of South Campus. Accommodating all of the estimated future program needs, without loss of critical functions, would require increased zoning heights within South Campus.

All development strategies explored in this section accommodate the total 6.45M gsf of future needs, assuming an upzone. This will allow for the projected growth, and right-sizing and decompression of existing space to meet current need required for every program. The total capacity of the upzoned scenario as shown here accommodates approximately 6.7M gsf, more than needed (though it should be noted as mentioned earlier, that the projected needs do not account for any additional UW Medical Center space).







Figure 3: Proposed Upzoning Building Height

3 STRATEGIES

A variety of strategies were explored to achieve the goals and accommodate constraints, givens, constants and assumptions. Each of the three strategies diagrammed below focus on a range of strategies for edges, circulation, development patterns and character, using open space as the main variable. This allowed the team to fully explore the pros and cons of a range of attributes (see *page 91*). In all cases, the character envisioned is meant to provide a sense of place and a unique identity to South Campus as a setting for an integral, collaborative and cohesive set of teaching, research and clinical activities, with strategic connections to the Central Campus, the UWMC, the waterfront and the community.



STRATEGIES / ASSESSMENT CRITERIA

ASSESSMENT CRITERIA

Each strategy was assessed for its effectiveness and ability to provide desired outcomes based on a range of attributes. The strategies are evaluated in detail in this section, and are intended to inform a comprehensive Hybrid scenario to be reviewed in *Section 5*.

	GRID	CENTRAL GREEN	OPEN SHORELINE
Character	maximize connections	centralized focus	waterfront focus
Density	evenly distributed	emphasis on N-S axis	emphasis on Pacific St. and E-W axis
Open Space	decentralized	centralized	corridors
Edges and Entries	porous edges and multiple entries	less porous and centralized entries	less porous and centralized entries
Up-Zoning Benefits	reduced bulk	central space	widened waterfront
Waterfront Character	urban, constructed edge	park/constructed edge, passive recreation	major park, informal recreation
Block Typology	city block towers	north/south orientation	east/west orientation
NE Columbia Road	at grade	at grade service, parking below	below elevated park
NE Pacific Street	upper setback, no lid	at grade setback, no lid	upper setback, lid
Parking	decentralized, underground & at grade	centralized, underground	centralized, underground
Service / Loading	decentralized, at grade	clustered above grade access on Columbia	clustered underground

Table 1: Assessment Criteria

SECTION 5 / RECOMMENDED PLAN

SECTION FIVE /

Recommended Plan

HYBRID DEVELOPMENT SCENARIO

After development of the alternative strategies in *Section 4*, particularly successful attributes of each were incorporated into a hybrid scenario for further refinement including studies of phasing and cost analysis.

The Hybrid scenario most directly draws upon the Central Green and Open Shoreline strategies to facilitate collaborative opportunities between the Health Sciences programs, waterfront uses, connections to adjacent campus precincts, and provide a sense of place and unique identity to South Campus.



Figure 5: Recommended Plan Thumbnail

RECOMMENDED PLAN /

ASSESSMENT CRITERIA Selected Attibutes

Attributes studied in *Section 4* were reviewed and assessed for the support of the plan's desired goals and guiding principles. Those that were thought to be most supportive are highlighted in orange and incorporated into the Hybrid Development Scenario.

	GRID	CENTRAL GREEN	OPEN SHORELINE
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Table 2: Assessment Criteria

Figure XX: Hybrid Development Scenario Plan 000000 a 0 0

OVERVIEW South Campus Vision

The vision of South Campus in the long term (20-30+ years) supports growth of all programs (excluding UWMC at time of study), phased development with flexibility for funding, a unique identity, a sense of place internal to the buildings and external to the surrounding landscape, and strong connections within, to other compus areas and to the waterfront.

A sustainabile and reslient area of intense growth and change over time, the South Campus will be a research and teaching hub for collaborative interprofessional education of a world class caliber.

OPEN SPACE CHARACTER

The envisioned character throughout South Campus varies to accommodate the dynamic culture, functionality and connectivity of the Health Sciences district and adjacent areas. Each of the characteristics have unique qualities that can and should be incorporated into a larger framework of open spaces.



Figure 6: Open Space Characters

RECOMMENDED PLAN / LANDSCAPE / PRECEDENT IMAGES



urban/constructed edge

park/constructed edge, passive

major Park, informal recreation





Brooklyn Bridge Park, Brooklyn, NY



Corktown Common, Toronto, Ontario, Canada

Brooklyn Bridge Park, Brooklyn, NY

There are many waterfront precedents that can be drawn on for South Campus. The Portage Bay waterfront is a unique feature of the UW that is relatively inaccessible to the South Campus community and also relatively unknown to the campus as a whole. One of its current assets is its heterogeneity and mixture of park-like uses with research efforts. As its identity is developed in the future, multiple precedents can be explored that invite more public use.

RECOMMENDED PLAN / LANDSCAPE / PRECEDENT IMAGES



School of Medicine, South Lake Union, Seattle, WA

Rockfeller University, New York, NY

Vera List Courtyard, New York, NY



Northeastern University, Boston, MA

Northeastern University, Boston, MA

Northeastern University, Boston, MA

Robust outdoor spaces support collaboration and social vibrancy on campus. The landscape can be a vital contributor to social vibrancy and overall quality of life on campus. As buildings become larger and taller, there is even greater necessity to provide a robust landscape environment and study microclimatic conditions related to rain and wind to ensure user comfort. **RECOMMENDED PLAN** /

BEFORE AND AFTER

Figure 19: Before

Figure 20: After



SEPTEMBER 8, 2015 UW South Campus Study

VIEW OF PHASE 1 AND CENTRAL OPEN SPACE



SEPTEMBER 8, 2015 UW South Campus Study

SECTION 6 / Phasing and implementation

PHASING / EXISTING

Figure 22:



SUMMARY:

• Existing South Campus with 4.3M gsf building program and 956 parking stalls (UWMC Surgery Pavilion parking not included).

	BUILDING PROGRAM	PARKING
Demolition	OM gsf	0 stalls
New	OM gsf	0 stalls
Net	OM gsf	0 stalls
Total	4.3M gsf	956 stalls

Figure 23:



SUMMARY:

- Phase 1 includes infill sites only. Demolition of exisiting buildings is not required.
- Replace S1, S5 and S12 parking.
- Establish underground parking.
- Improve NE Columbia Road to be more pedestrian friendly.
- Improve pedestrian connection to South Campus Center.
- 1,049 parking stalls are built, but only 878 stalls are accessible.

Building A	63,000 gsf
Building B	97,000 gsf
Building H	367,000 gsf
Building M	101,000 gsf
Building N	238,000 gsf
Building P	314,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	OM gsf	890 stalls
New	1.2M gsf	878 stalls
Net	1.2M gsf	- 12 stalls
Total	5.5M gsf	944 stalls

Figure 24:

Demolition

0.4M gsf



0 stalls

SUMMARY:

 Phase 2 requires demolition of F Wing, D Wing, and B Wing.

Health Sciences Administration School of Dentistry School of Medicine School of Public Health Figure 25:



SUMMARY:

- Replace F Wing, D Wing, and B Wing.
- Establish major North-South connection to South Campus Center.
- Widen and improve NE Columbia Road.
- Begin to establish new vehicular outlet to NE Pacific Street.
- Expand underground parking from Phase 1.

Building I159,000 gsfBuilding J319,000 gsfBuilding K346,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.4M gsf	0 stalls
New	0.8M gsf	948 stalls
Net	0.4M gsf	948 stalls
Total	5.9M gsf	1,892 stalls

Figure 26:



SUMMARY:

• Phase 3 requires demolition of the central portion of T Wing.

Demolition

0.3M gsf

0 stalls

Health Sciences Administration School of Medicine School of Nursing School of Public Health Figure 27:



SUMMARY:

- Replace central portion of T Wing.
- Establish major North-South connection to Main Campus. Replace and relocate pedestrian bridge crossing NE Pacific Street.
- Improve elevation changes and connections between W Stevens Way NE, Burke-Gilman Trail, NE Pacific Street, and the pedestrian bridge.
- Begin to establish East-West spine.
- Improve pedestrian and edge conditions along NE Pacific Street.
- Expand underground parking from previous phases.

Building F 315,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.3M gsf	0 stalls
New	0.3M gsf	297 stalls
Net	OM gsf	297 stalls
Total	5.9M gsf	2,189 stalls

Figure 28:



School of Nursing

SUMMARY:

• Phase 4 requires demolition of A Wing, C Wing, and the east portion of T Wing. Figure 29:



SUMMARY:

- Replace A Wing, C Wing and the east portion of T Wing.
- Complete vehicular outlet to NE Pacific Street.
- Continue to improve pedestrian and edge conditions along NE Pacific Street.
- Expand East-West spine.
- Expand underground parking from previous phases. 171 parking stalls under Building H (Phase 1) is now accessible.

Building G 359,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.3M gsf	0 stalls
New	0.4M gsf	494 stalls
Net	0.1M gsf	494 stalls
Total	6.0M gsf	2,683 stalls

Figure 30



SUMMARY:

• Phase 5 requires demolition of BB Wing, RR Wing, and UWMC SW Wing.

Demolition

0.4M gsf

0 stalls

Center on Human Development and Disability Food Services Health Sciences Administration School of Medicine University of Washington Medical Center

SEPTEMBER 8, 2015 UW South Campus Study

Figure 31:



SUMMARY:

- Replace BB Wing, RR Wing, and UWMC SW Wing.
- Complete widening and improving NE Columbia Road.
- Expand underground parking from previous phases.
- Establish second entrance to underground parking.

Building L 504,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.4M gsf	0 stalls
New	0.5M gsf	334 stalls
Net	0.1M gsf	334 stalls
Total	6.1M gsf	3,017 stalls

Figure 32:



SUMMARY:

- Phase 6 requires demolition of South Campus Center, Oceanography Building and Oceanography Dock Building.
- Demolition of S7 and S8 parking.

Demolition

0.1M gsf

53 stalls

Applied Physics Lab College of the Environment Health Sciences Administration School of Nursing School of Pharmacy

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Figure 33:



SUMMARY:

- Complete major North-South connection between Main Campus, South Campus and the waterfront.
- Restore and improve the waterfront.

	BUILDING PROGRAM	PARKING
Demolition	0.1M gsf	53 stalls
New	0.0M gsf	0 stalls
Net	- 0.1M gsf	- 53 stalls
Total	6.0M gsf	2,964 stalls

Figure 34:



SUMMARY:

- Phase 7 requires demolition of Ocean Teaching Building, Harris Hydraulic Laboratory, and a portion of Portage Bay Building.
- Demolish S6 parking.

Demolition

0.2M gsf

9 stalls

Applied Physics Lab Center on Human Development and Disability College of Engineering College of the Environment School of Medicine

SEPTEMBER 8, 2015 UW South Campus Study

Figure 35:



SUMMARY:

- Replace Ocean Teaching Building, Harris Hydraulic Laboratory, and a portion of Portage Bay Building.
- Continue to restore and improve the waterfront.

129,000 gsf 145,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.2M gsf	9 stalls
New	0.3M gsf	0 stalls
Net	0.1M gsf	- 9 stalls
Total	6.1M gsf	2,955 stalls

Figure 36:



SUMMARY:

 Phase 8 requires demolition of Hitchcock Hall.

School of Medicine

Figure 37:



SUMMARY:

- Replace Hitchcock Hall.
- Improve pedestrian and edge conditions along NE Pacific Street.
- Expand East-West spine.
- 159 new parking stalls are built under Building C, but they are not accessible until phase 11.

ng C 310,000 gs

	BUILDING PROGRAM	PARKING
Demolition	0.1M gsf	0 stalls
New	0.3M gsf	0 stalls
Net	0.2M gsf	0 stalls
Total	6.3M gsf	2,955 stalls

Figure 38:

Demolition

0.1M gsf



4 stalls

Center on Human Development and Disability College of Education School of Nursing School of Medicine

SUMMARY:

- Phase 9 requires demolition of Center on Human Development and Disability Clinic, Center on Human Development Disability South, and Center on Human Development and Disability School.
- Demolish S9 parking.

Figure 39:



SUMMARY:

- Replace Center on Human Development and Disability Clinic, Center on Human Development Disability South, and Center on Human Development and Disability School.
- Enhance pedestrian and bicycle connections to the East of South Campus.
- Continue to restore and improve the waterfront.

Building R391,000 gsfBuilding S22,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.1M gsf	4 stalls
New	0.4M gsf	0 stalls
Net	0.3M gsf	- 4 stalls
Total	6.6M gsf	2,951 stalls

Figure 40:



SUMMARY:

• Phase 10 requires demolition of I Wing, G Wing, and the west portion of T Wing.

Demolition

0.4M gsf

0 stalls

Food Services Health Sciences Administration School of Dentistry School of Medicine School of Public Health

Figure 41:



SUMMARY:

- Replace I Wing, G Wing, and the west portion of T Wing.
- Improve pedestrian and edge conditions along NE Pacific Street.
- Expand East-West spine.

uilding F	315,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.4M gsf	0 stalls
New	0.3M gsf	548 stalls
Net	- 0.1M gsf	548 stalls
Total	6.5M gsf	3,499 stalls

Figure 42:



School of Medicine

SUMMARY:

• Phase 10 requires demolition of J Wing.

Figure 43:



SUMMARY:

- Replace J Wing.
- Complete East-West spine.
- Complete pedestrian and edge condition improvements along NE Pacific Street.
- In addition to the new 204 parking stalls under Building D, 159 parking stalls under Building C from phase 8 is now accessible.

Building D 411,000 gsf

	BUILDING PROGRAM	PARKING
Demolition	0.2M gsf	0 stalls
New	0.4M gsf	363 stalls
Net	0.2M gsf	363 stalls
Total	6.7M gsf	3,862 stalls

PHASING / NEW BUILDING GSF



SEPTEMBER 8, 2015 UW South Campus Study