

Facilities Master Plan State University of New York College of Technology at Delhi

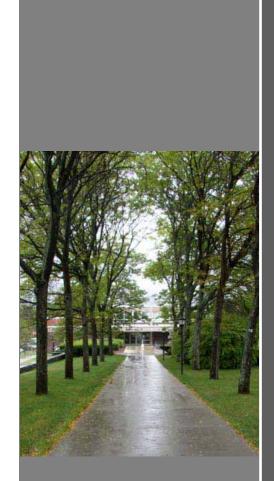
SUCF Project No. 25819

Master Plan Update – Phases I, II, III October, 2009









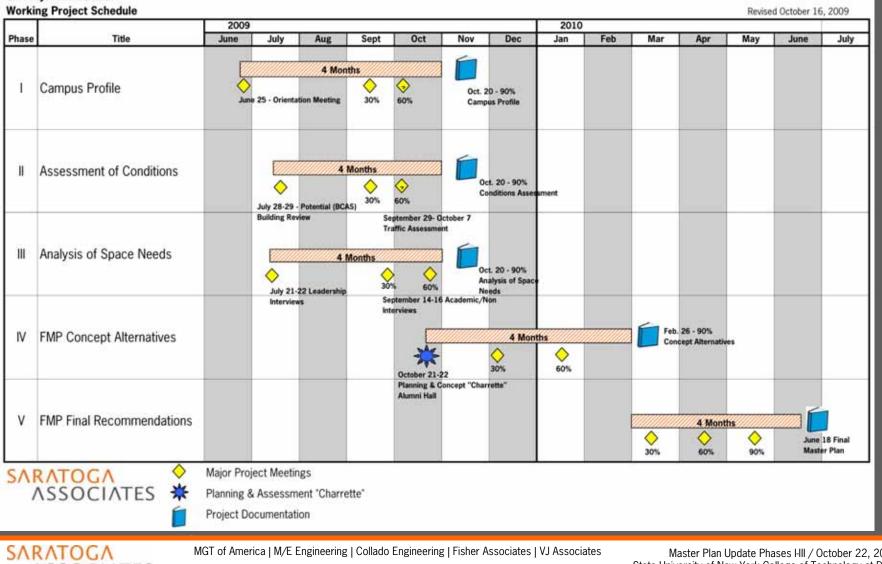
Agenda

- > Schedule
- > Phase I Campus Profile
- > Phase II Assessment of Conditions
- > Phase III Analysis of Space Needs
- > Planning Charrette
- > Discussion

Schedule

SUNY Delhi Facilities Master Plan SUCF #: 25819 SA Project #: 09030

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> Interest

- > Growth
- > Enrollment

Home > News And Events >

Campus News

SUNY DELHI SETS ENROLLMENT RECORD

October 14, 2009, Delhi, N.Y. ... A record number of 3,157 students are enrolled at SUNY Delhi this fall, the highest total in college history. The previous all-time high of 2,971 students was set in Fall 2008.

Applications to SUNY Delhi are also at record levels with more than 6,000 students applying for enrollment in Fall 2009. Applications to SUNY Delhi have increased by more than 42 percent over the last three years.

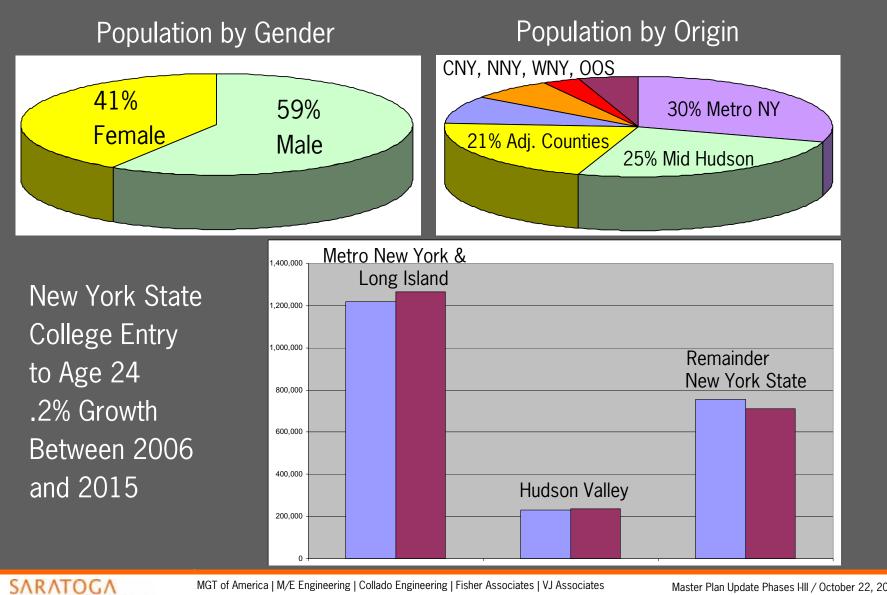
"SUNY Delhi's focus on offering unique academic programs is producing impressive results," says President Candace Vancko. "We are consistently earning national and state recognition for academic excellence and that has helped make SUNY Delhi a very popular choice among college-bound students," she says.

SUNY Delhi has been ranked among the Top 50 Baccalaureate Colleges in the North by U.S. News and World Report for three consecutive years. The college also scored very high marks in the 2009 SUNY Student Opinion Survey, ranking in the Top 10 of all SUNY campuses in 28 categories, including quality of instruction, academic advising, acquiring the knowledge and skills needed for a career, community service, and athletic and recreation facilities. Delhi ranked first or second among SUNY's Colleges of Technology in more than 50 percent of the categories on the Student Opinion Survey.

Students enrolled in baccalaureate programs now account for nearly 17 percent of Delhi's total enrollment. Leading the way are programs offered on-line and off site. An on-line RN to BSN program, the first of its type in New York State, has grown from 20 students to more than 200 in less than two years. Delhi has offered baccalaureate degrees on the campus of Schenectady County Community College since 2003 and will launch four-year programs at Tompkins Cortland Community College in Dryden and Onondaga Community College in Syracuse beginning in January.

Delhi also offers an on-line baccalaureate in Veterinary Technology Management, an Associate Degree in Nursing (ADN) through the Partnership for Nursing Opportunities with Bassett Hospital, and an on-line associate degree in Electrical Construction and Instrumentation for the International Brotherhood of Electrical Workers (IBEW) in Latham.





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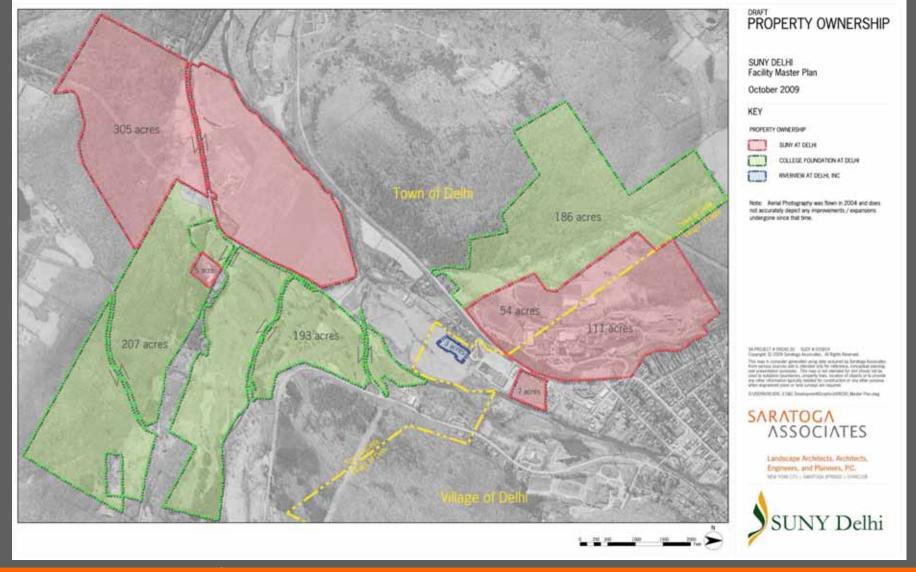


- > Veterinary Science Technology
- > Nursing Program
- > Business and Hospitality Program
- > Golf Course Management

Guiding Principles

- > Enrollment Growth
- > Online and Off-Campus
- > Diversity
- > Community Service
- > Increase Baccalaureate Degrees

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Phase II: Assessment of Conditions

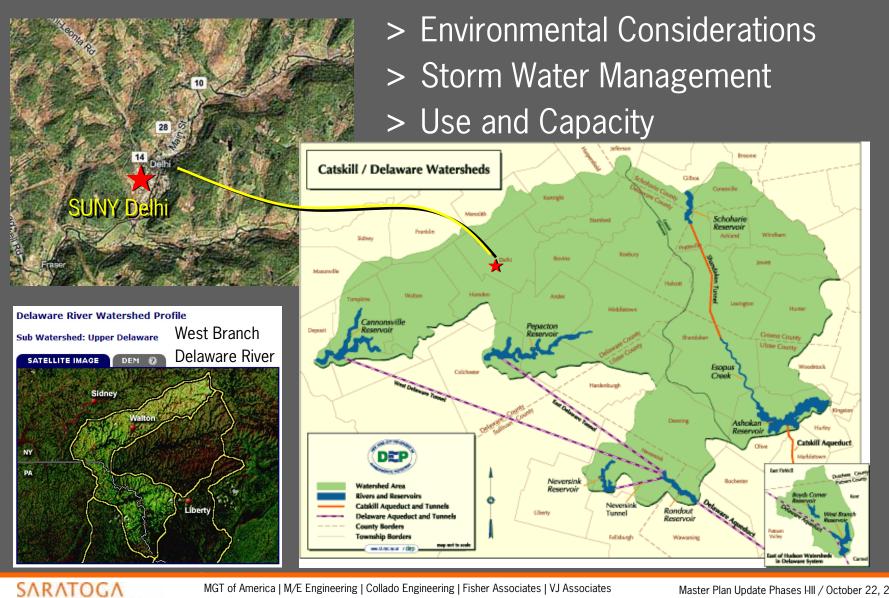
- > Context
- > Natural
- > Physical
- > Mapping
- > Interviews w/ campus personnel
- > Historical records





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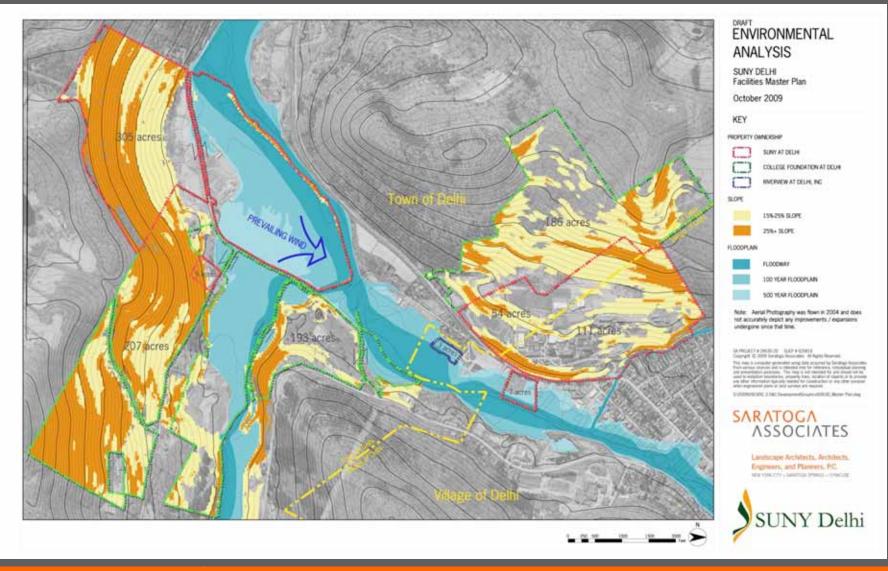
Phase II: Assessment of Conditions



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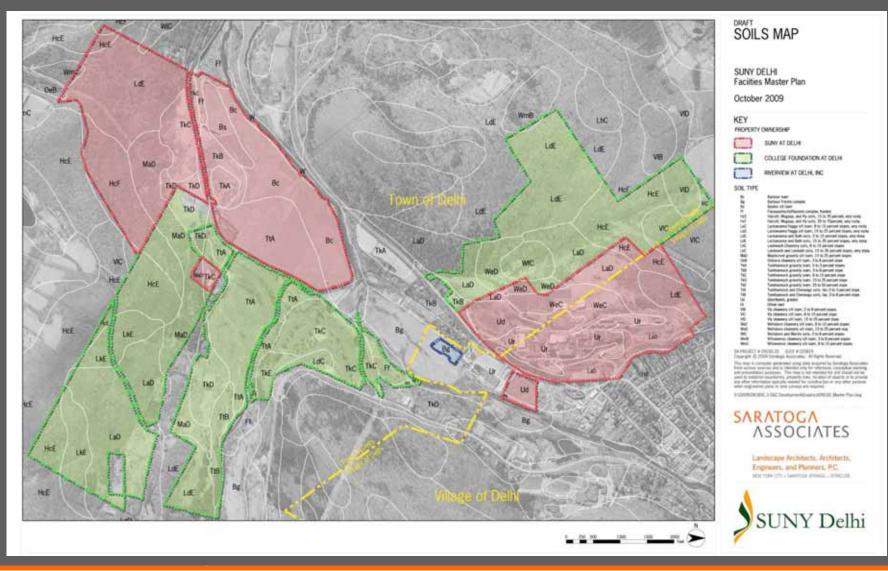
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Environmental Context



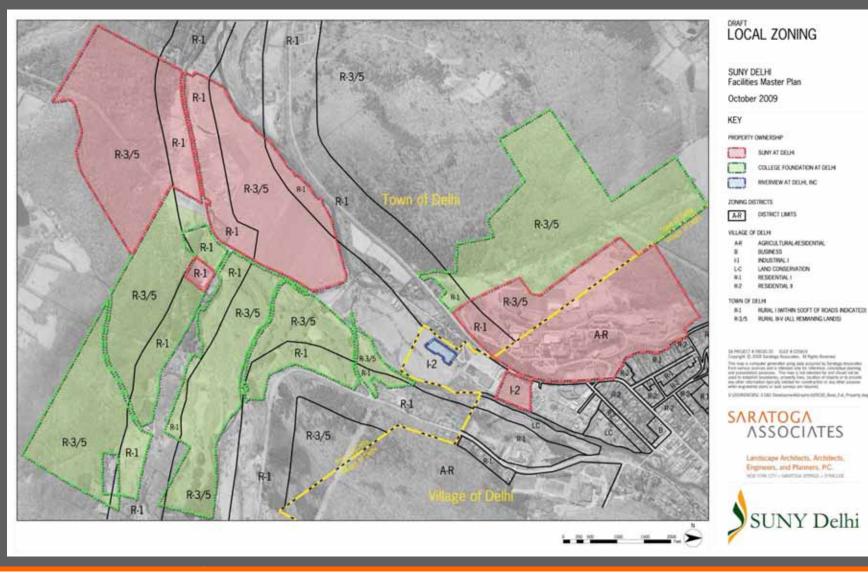


Environmental Context



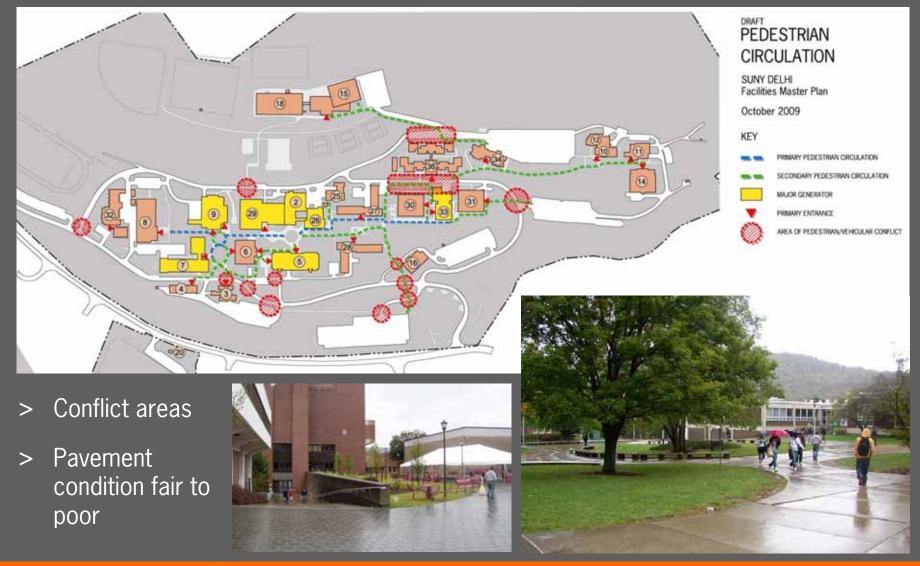


Land Use and Zoning



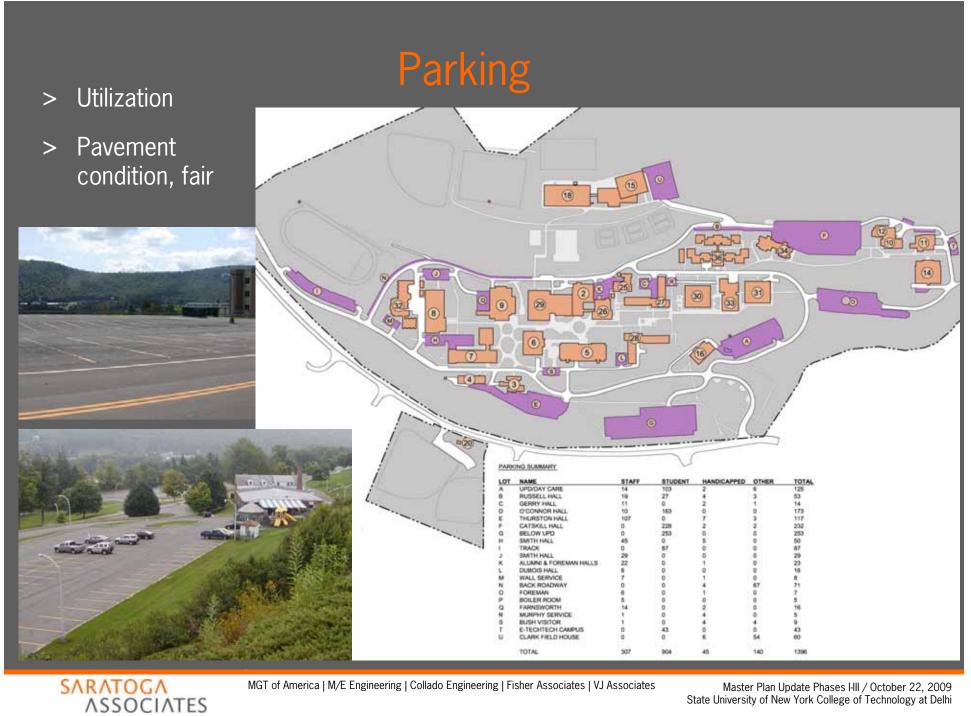


Pedestrian Circulation



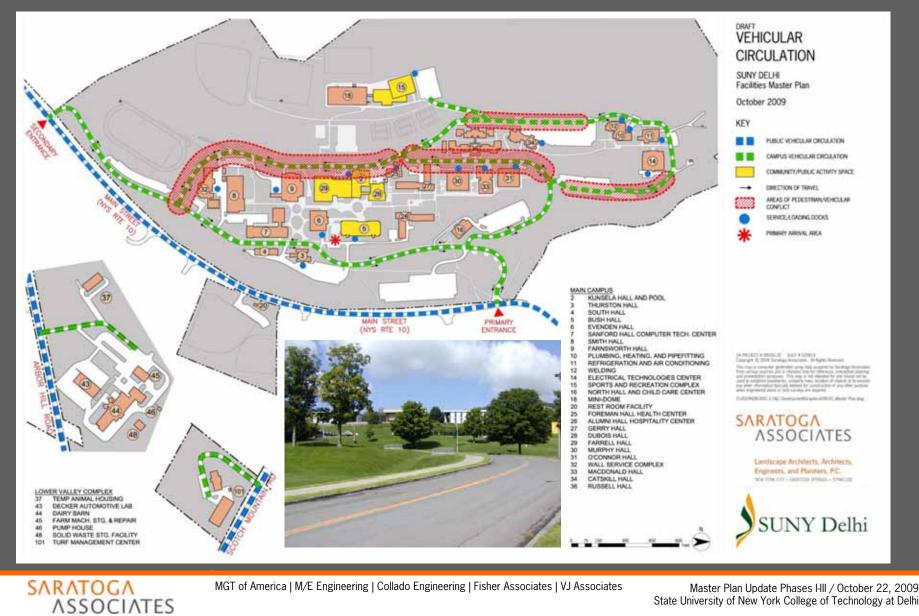


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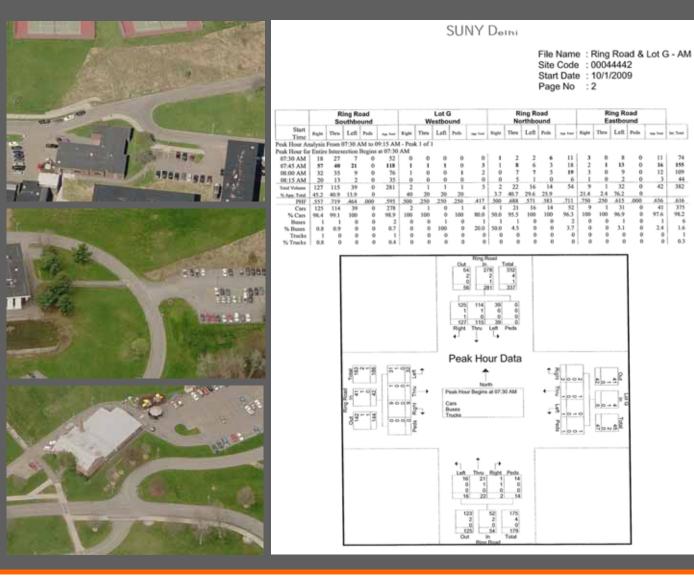
Vehicular Circulation



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Vehicular Circulation

- > Sept. 29-30 data collection
- Ring road / > intersections serve relatively low traffic volumes
- Service vehicle > conflicts
- Traffic speed >





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Campus Building Construction



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Resources

- > Onsite Building Assessment
- > Review of BCAS
- Review of Past Capital Improvement Projects
- Interviews with
 Campus
 Personnel

 Historical Records

Building Condition Assessment

- > Condition of Building Envelope (Roof, Windows, Structure and Façade)
- > Identify any renovations that have occurred on the building
- > Identify any persistent problems with the building
- General condition of all interior finishes (Floors, Walls and Ceilings).
- Condition of Mechanical Systems (Heating, Ventilation, Cooling and Controls).
- > Condition of Plumbing Systems (Water, Sanitary, Fire Suppression and Storm Water).
- > Condition of Electrical System (Service/Distribution, Emergency power/lighting, Fire Alarm, Lighting, Telephone/Data and Specialty Systems).



Overall Building Condition Assessment





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- Building type not well suited for classroom uses
- > Building in need of renovation

Thurston Hall

- > Comparison to BCAS Architectural
 - > Exterior Envelope remains unchanged.
 - Cosmetic Improvements to interior occurred in 2008. Ceilings and walls scored much higher.



Electrical

- > All circuit breaker panels should be replaced immediately.
- > Add emergency lighting to stair and large rooms.
- Lowering all pullstations to 4'-0" to comply with ADA.
 Mechanical / Plumbing
- Renovation recommended if the use of the building is changed. There are limited toilet rooms, and mechanical ventilation is not provided.



- Building type suited to current use
- Some spaces could be utilized more efficiently
- > Building in need of renovation

Farnsworth Hall

- > Comparison to BCAS Architectural
 - > Remains substantially unchanged.
 - Minor renovations to Architectural Technology Studio, Faculty Lounge and Conference Room.

Electrical

> The electric service is very under utilized.

Mechanical / Plumbing

> Systems in fair to good condition. Issues are age of the equipment and use of electricity for heating.





- Building type suitable for current uses
- Exterior doors and windows in need of replacement

Bush Hall

> Comparison to BCAS

Architectural

- Roof was replaced recently. The balance of the Exterior Envelope remains unchanged.
- > Minor renovation to first floor lobby in 2009.

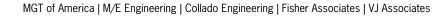
Electrical



- > Lowering all pull stations to 4'-0" to comply with ADA.
- > Installing ceiling mounted horn strobes between book stacks
- > Ceiling mounted occupancy sensors in restrooms.
- > Install additional lighting between book stacks.

Mechanical / Plumbing

- > New stream to hot water heating system.
- > Existing air handler in basement not operational





- > Open floor plan suitable for dining Hall use
- Classroom / lab uses adjacent to dining hall efficient
- > Classroom / lab uses ill-suited in current space

MacDonald Hall

> Comparison to BCAS

Architectural

- > Roof was replaced recently. The balance of the Exterior Envelope remains unchanged.
- > Lower Level Lobby area renovated recently.

Electrical / Mechanical / Plumbing

- > Add smoke detectors in dining area.
- > Install occupancy sensors in restrooms with Passive Infrared and Ultrasonic type sensor.
- > Add lighting in Mechanical room
- > Renovation of mechanical systems are recommended. Systems are well maintained and have reached the end of their useful lifetime.
- > Opportunities exist to save energy with a system renovation by using DDC controls and matching hood exhaust air flow rates to cooking demand.





Analysis of Space Needs

- > Interviews
- > Space Inventory (PSI)
- > Campus walk-through
- > Floor plans
- > Projections
- > Course and class schedule Fall 2009
- > Analysis
- > Displays and presentations
- > Feedback
- > Final analysis



- >September 15 & 16 interviews
- >55 Faculty/Staff & Administration
- >Perceived space needs
- >Potential program growth

>Space verification

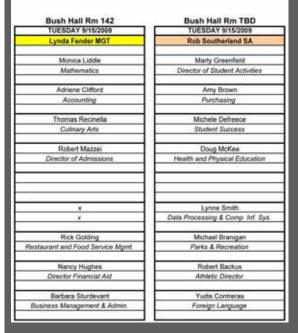
Analysis of Space Needs

> Interviews

Academic / Administrative Questionnaire September 2009 Page 3 of 4

E. Indicate Below Your Department's Perceived Immediate (1-5 Years) and Future (6-10 Years) Additional <u>Space Needs (beyond existing assigned space)</u>. Use your best judgment given your departments academic program, staffing goals and enrollment projections.

| PERCEIVED SPACE NEEDS (cumulative) | <u>Above and Beyond My Existing</u> <u>Space</u> , in the <u>Next 1-5 Years</u> I Will Need the Following Additional Spaces | In Addition (to the previous 5 years), in the <u>Next 6-10 Years</u> , I Will Need the Following Additional Spaces |
|--|--|---|
| Faculty/Staff Office(s): | offices | offices |
| Faculty/Staff Shared Office(s): | offices @ faculty members per office | offices @ faculty members per office |
| Admin. Support (Secretary/Administrative Assistant/ Student Work Space): | stations reception seats | stations |
| Department Support Space, check as appropriate: | Files Copy Area Coffee Storage Room Work Room other | Files Copy Area Coffee Storage Room Work Room other |
| Conference/Seminar: | rooms at seats each □ Share? □ Dedicated? | rooms atseats each Share? Dedicated? |
| Special Lab/Prep Rm., Please Describe: | approx. sq.ft. | approx sq.ft |
| Departmental /Faculty Resource Center/Library: | approx. sq.ft. | approx sq.ft |
| Other ? | approx. sq.ft. | approx sq.ft |





Analysis of Space Needs

> PSI and Building Space Review – Sanford Hall



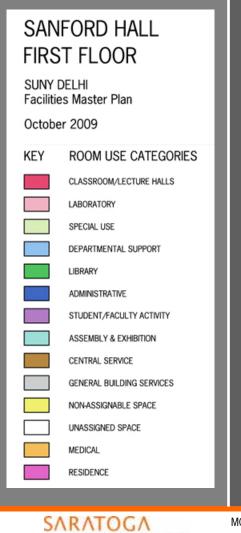
- >September 16-17 building walkthrough
- >PSI verification
- >Space type and user

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>Existing space by use



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Analysis of Space Needs

> PSI and Building Space Review – Sanford Hall



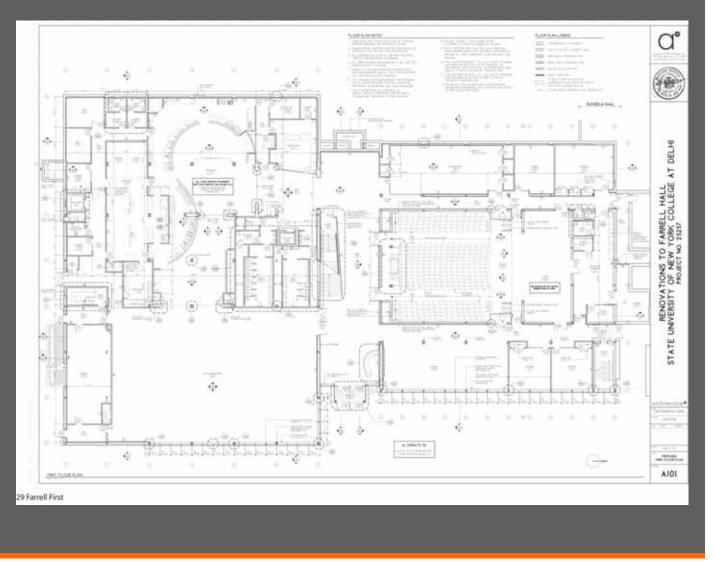
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> Construction of Farrell Hall

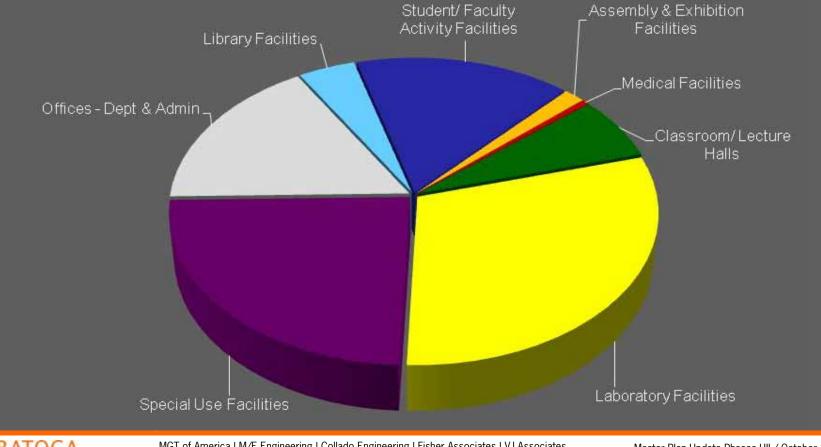
Analysis of Space Needs - Future





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Analysis of Space Needs Existing Space by Type (in NSF)



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- > Education and general space
- > Excludes residential, custodial, maintenance & non-assignable
- Laboratories reflect the technical nature of the institution
- Special use reflects the farm and phys ed
- > Includes new Farrell Hall spaces

Analysis of Space Needs

Existing Space by Type (in NSF)

| CLASSROOM/LECTURE HALLS | 29,569 |
|----------------------------------|--------------|
| LABORATORY FACILITIES | 131,414 |
| SPECIAL USE FACILITIES | 105,220 |
| OFFICES - DEPT & ADMIN | 73,280 |
| LIBRARY FACILITIES | 18,567 |
| STUDENT/FACULTY ACTIVITY | |
| FACILITIES | 70,670 |
| ASSEMBLY & EXHIBITION FACILITIES | 6,810 |
| MEDICAL FACILITIES | <u>2,281</u> |
| | |

TOTAL E&G SPACE



^{437,809}

| | | Analysis of Space Needs | | | | | |
|---|--|---|--------------------------------------|----------------------|---|--|--|
| > | 2% growth per year (on- campus) | Projection | is on-car | npus (Fa | all FTE) | | |
| > | ~985 FTE-2025 SUNY | Enrollment | <u>2009</u> 2,642 | <u>2020</u> 3,285 | <u>2025</u> 3,627 | | |
| | projections – steady, initial growth then decline then rebound | Faculty Staff | 160 197 | 198 234 | 219 258 | | |
| > | | [Excludes maintenance | / custodial / grou | unds staff] | | | |
| | SARATOGA ASSOCIATES | MGT of America M/E Engineering Collado Engine | ering Fisher Associates VJ Assoc | | Plan Update Phases I-III / Octobe of New York College of Technol | | |

- > 40 total classrooms
- > Guidelines

16sf > 400 sf 20sf < 400 sf

 Learning style moving to table and chairs – 23-25 sf station – 6,200 sf more

Analysis of Space Needs

Academic Space: Classrooms (in NSF)

| <u>Room Type</u> Classrooms | <u># Rms</u> 38 | <u># Stations</u> 1,350 | <u>Total NSF</u> 25,023 | NSF/Station 18.5 |
|--------------------------------|--------------------|----------------------------|----------------------------|---------------------|
| Lecture | 2 | 358 | 4,546 | 12.7 |
| <u>Room Sizes</u> 1 – 15 | <u># Rms</u> | <u># Stations</u> | <u>Total NSF</u> | NSF/Station |
| 16 – 25 | 12 | 259 | 5,581 | 21.5 |
| 26 – 40 | 15 | 519 | 9,402 | 18.1 |
| 41 – 60 | 9 | 428 | 7,777 | 18.2 |
| 61 – 100 | 2 | 144 | 2,263 | 15.7 |
| 100 + | 2 | 358 | 4,546 | 12.7 |



> 70 class laboratories (acad)

> Guidelines

>Varies by discipline >Range: 30 sf to 218 sf

 Predominant use could be other than scheduled class activity

Analysis of Space Needs

Academic Space: Class Laboratories (in NSF)

| | | | | <u>/Station</u> |
|-----------------------------|--------------|-------------------|-----------------|------------------|
| <u>Discipline</u> | <u># Rms</u> | <u># Stations</u> | <u>Actual</u> | <u>Guideline</u> |
| Applied Science & Rec | 6 | 116 | 39.4 | 40 |
| Bus Admin / CIS / IT | 6 | 179 | 41.0 | 40 |
| Hospitality / Culinary Arts | 7 | 135 | 57.2 | 109 |
| Liberal Arts & Sciences | 10 | 250 | 44.8 | 50 |
| Nursing | 2 | 120 | 20.5 | 80 |
| Learning Center/Library | 1 | 24 | 24.0 | 40 |
| Student Life | 1 | 24 | 24.0 est | 30 |
| Technology | 27 | 577 | 97.9 | 109-218 |
| Vet Tech | 10 | 166 | 41.3 | 60 |



Analysis

- Culture for faculty to share offices
- > Office Guidelines
 - > Faculty-120 sf
 - > Admin-120 sf
 - > Senior Staff-180 sf
 - > Deans-240 sf
 - > Senior leadership-320 sf
 - > President-400 sf
 - > Conference Room Guidelines
 - > 240 sf 600 sf

Analysis of Space Needs

Office & Conference Room Space (in NSF)

| <u>Office Type</u> | <u># stations</u> | <u>NSF</u> | <u>NSF/Station</u> |
|--------------------|-------------------|------------|--------------------|
| Faculty | 158 | 18,126 | 114.7 |
| Admin | 213 | 32,005 | 150.3 |

[Admin includes all non-faculty, e.g., senior leadership, deans, student workers, etc. plus division offices & reception plus contract staff e.g., CADI]

| Office Type |
|---------------------|
| Service and Support |

<u>NSF</u> 11,614

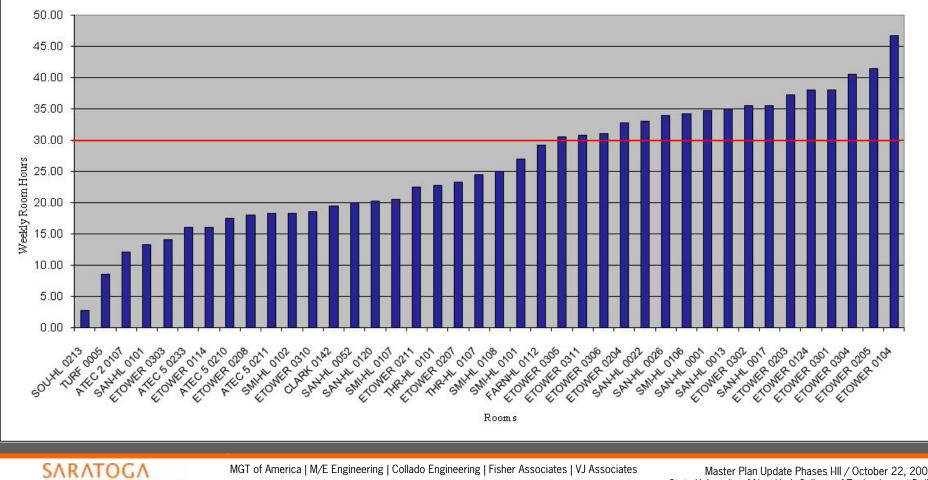
[Includes significant records storage in basement of Bush Hall, old showers in Farnsworth Hall, now used for storage, and new space in Farrell Hall that duplicated existing space]

| <u>Room Type</u> | <u># rooms</u> | <u>NSF</u> | <u>NSF/Room</u> |
|------------------|----------------|------------|-----------------|
| Conference Rooms | 20 | 6,853 | 343 |
| | | | |



Analysis of Space Needs

SUNY DELHI COLLEGE Classroom (1010 & 1100) Scheduled Weekly Room Hours by Room



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Analysis of Space Needs

SUNY DELHI COLLEGE

Weekly Utilization of Classrooms (1001 & 1100) with Scheduled Use

Descending Order of Station Use

| Building | Room # | Area (ASF) | Physical Capacity | Total Scheduled Room Hours | Possible Weekly Student Contact Hours | Actual Weekly Student Contact Hours | Station Use Based on Physical Capacity |
|------------------------|--------|------------|----------------------|----------------------------------|---|---|--|
| ETOWER | 0204 | 593 | 34 | 32.75 | 1,114 | 772 | 69% |
| THR-HL | 0107 | 768 | 49 | 24.50 | 1,201 | 787 | 66% |
| ETOWER | 0124 | 908 | 42 | 38.00 | 1,596 | 1,038 | 65% |
| ETOWER | 0306 | 756 | 50 | 31.00 | 1,550 | 950 | 61% |
| SAN-HL | 0022 | 706 | 49 | 33.00 | 1,617 | 968 | 60% |
| ATEC 5 | 0233 | 774 | 43 | 16.00 | 688 | 407 | 59% |
| SAN-HL | 0013 | 940 | 49 | 35.00 | 1,715 | 1,004 | 59% |
| ATEC 5 | 0211 | 811 | 42 | 18.25 | 767 | 447 | 58% |
| THR-HL | 0101 | 644 | 38 | 22.75 | 865 | 495 | 57% |
| SMI-HL | 0107 | 640 | 36 | 20.50 | 738 | 421 | 57% |
| SMI-HL | 0106 | 1,296 | 78 | 34.25 | 2,672 | 1,461 | 55% |
| SAN-HL | 0001 | 1,162 | 110 | 34.75 | 3,823 | 2,022 | 53% |
| TURF | 0005 | 779 | 28 | 8.50 | 238 | 108 | 45% |
| ETOWER | 0303 | 579 | 24 | 14.00 | 336 | 151 | 45% |
| FARNHL | 0112 | 1,422 | 60 | 29.25 | 1,755 | 788 | 45% |
| SMI-HL | 0108 | 967 | 66 | 25.00 | 1,650 | 714 | 43% |
| SAN-HL | 0101 | 357 | 18 | 13.25 | 239 | 89 | 37% |
| ETOWER | 0104 | 3,384 | 248 | 46.75 | 11,594 | 3,812 | 33% |
| Total Scheduled Rooms: | 40 | 29,569 | 1,708 | 25.91 | 51,341 | 30,742 | 60% |

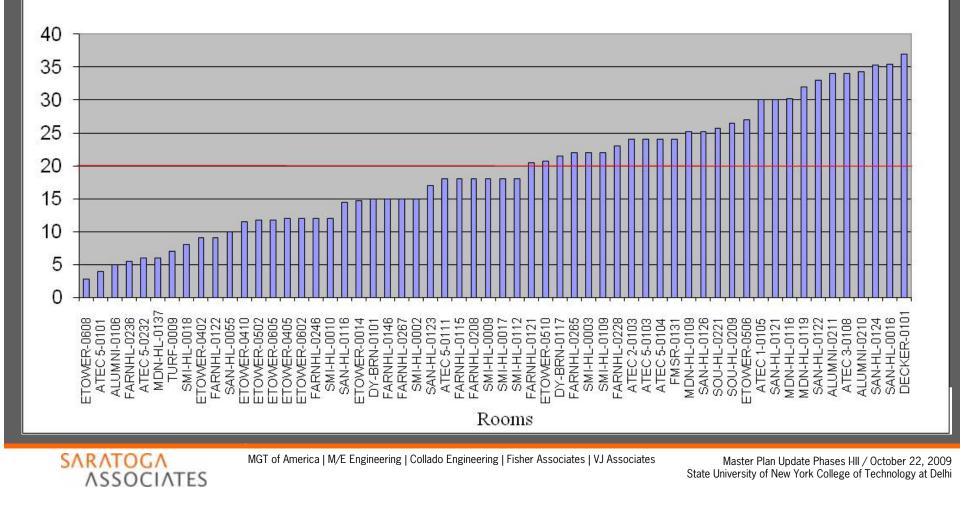


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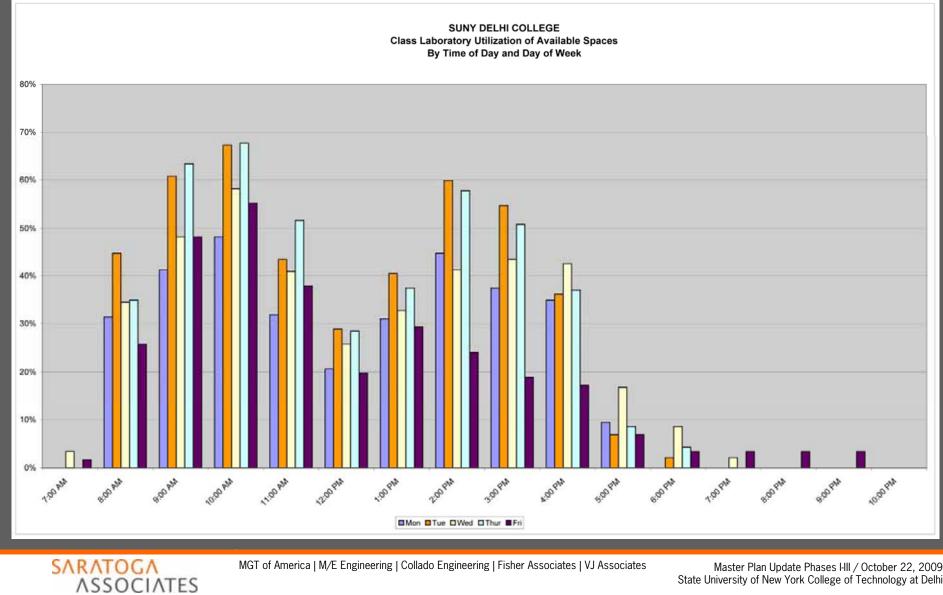
Analysis of Space Needs

SUNY DELHI COLLEGE

Class Laboratory Scheduled Weekly Room Hours by Room



Analysis of Space Needs



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Analysis of Space Needs

SUNY DELHI COLLEGE

Weekly Utilization of Class Laboratories with Scheduled Use

Low Station Use

| Building | Room # | Area (NSF) | Physical Capacity | Total Scheduled Room Hours | Possible Weekly Student Contact Hours | Actual Weekly Student Contact Hours | Station Use Based on Physical Capacity |
|------------------------|--------|------------|----------------------|-------------------------------|--|--|---|
| ETOWER | 0405 | 1,127 | 24 | 12.0 | 288 | 162 | 56% |
| SMI-HL | 0017 | 2,740 | 20 | 18.0 | 360 | 201 | 56% |
| ATEC 2 | 0103 | 4,650 | 40 | 24.0 | 960 | 516 | 54% |
| FARNHL | 0265 | 997 | 24 | 22.0 | 528 | 279 | 53% |
| FARNHL | 0246 | 317 | 12 | 12.0 | 144 | 72 | 50% |
| TURF | 0009 | 1,058 | 21 | 7.0 | 147 | 73 | 50% |
| SMI-HL | 0002 | 2,330 | 24 | 15.0 | 360 | 174 | 48% |
| ATEC 5 | 0101 | 882 | 25 | 4.0 | 100 | 48 | 48% |
| SMI-HL | 0018 | 1,703 | 24 | 8.0 | 192 | 90 | 47% |
| FARNHL | 0267 | 1,078 | 24 | 15.0 | 360 | 160 | 44% |
| FARNHL | 0146 | 2,427 | 35 | 15.0 | 525 | 232 | 44% |
| FARNHL | 0115 | 930 | 30 | 18.0 | 540 | 236 | 44% |
| SMI-HL | 0003 | 2,405 | 20 | 22.0 | 440 | 189 | 43% |
| ETOWER | 0410 | 1,144 | 24 | 11.5 | 276 | 118 | 43% |
| ETOWER | 0402 | 1,369 | 32 | 9.0 | 288 | 99 | 34% |
| FARNHL | 0228 | 1,193 | 32 | 23.0 | 736 | 236 | 32% |
| FARNHL | 0122 | 815 | 15 | 9.0 | 135 | 41 | 30% |
| SOU-HL | 0209 | 1,206 | 80 | 26.5 | 2,120 | 612 | 29% |
| Total Scheduled Rooms: | 58 | 98,300 | 1,393 | 19.2 | 2,7715.3 | 19,186.8 | 69% |



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- > 2% annual growth
- > CLASSROOMS
- > WRU 25.9; goal 30
- Fill rate of classrooms – 60% goal 70%
- > CLASS LAB station sizes
- Faculty FTE actual-160 offices-158

Conclusions

- > Enrollment growth to 2025 985 FTE approximately 60 per year
- > Classrooms more aggressive scheduling will create additional capacity in the short-term
- > Class laboratories station sizes often less than guidelines indicating need for space in new or renovated space
- > Faculty office space at capacity; more flexibility in administrative space

 Farrell Hall creates additional space & allows for adaptive reuse of current auxiliary and student spaces

HousingOn campus

- Off campus

> Deferred Maint.

 Demolition of existing structures

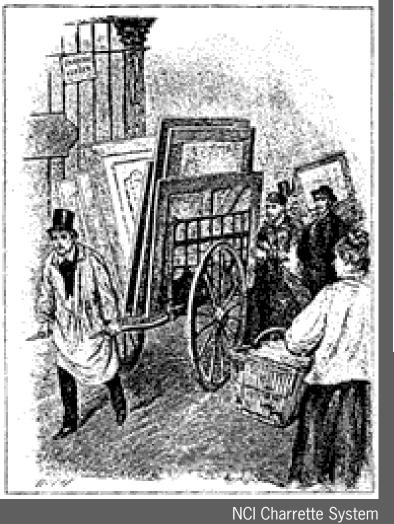
Conclusions

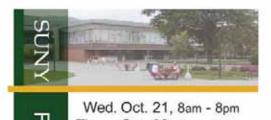
- > Dining, study, student, & recreation space appears to be OK, with except of the condition of the Air Structure
- > Flagship Programs will require additional space: Nursing, Vet-Tech and Hospitality/Culinary Arts
- > Major limiting factors:
 - > Residential facilities
 - > Aging facilities-functionality & suitability
- > Current capacity
- > Future needs



- Filling the charrette cart with ideas
- > Questions
- > Answers
- > Discussion
- > Opportunities

Charrette







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Alumni Hall - Great Location



Hospitality inside and out....





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- > 250-300
 students, faculty
 and
 administration
- > Planning and learning
- > Community

Charrette





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What We Heard

Important Assets:

- > Compact Campus
- > Low Student to Faculty Ratio
- > Rural Location
- > Faculty / Staff
- > Academic Programs





What We Heard

Critical Facility Needs:

> Dining Hall

- > Technology upgrades
- > Student Housing
- > Parking
- > Day Care Facility





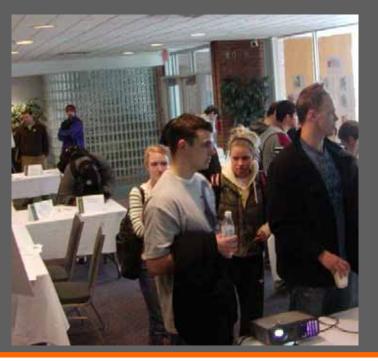
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What We Heard

Best Social Space on Campus:

> My room

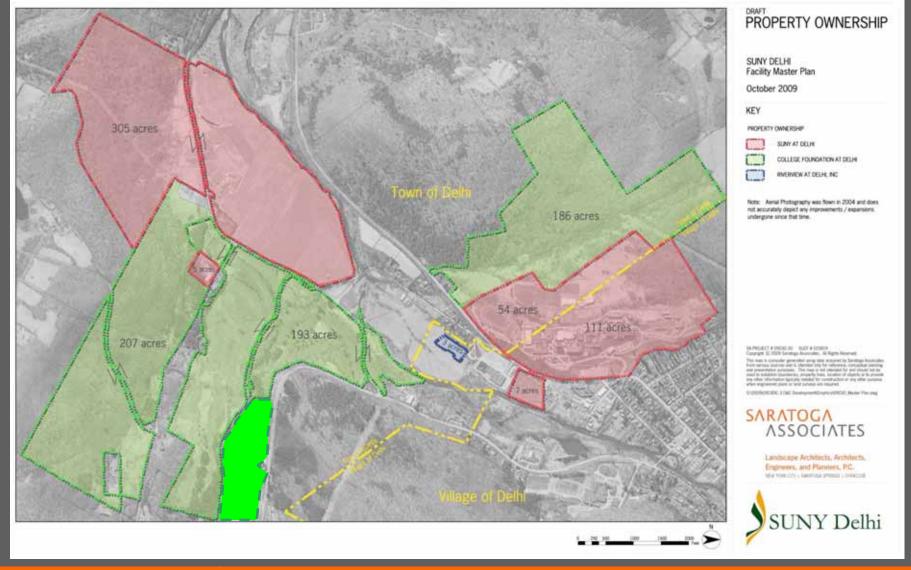
- > Library café
- > Farrell Hall (missing consensus)





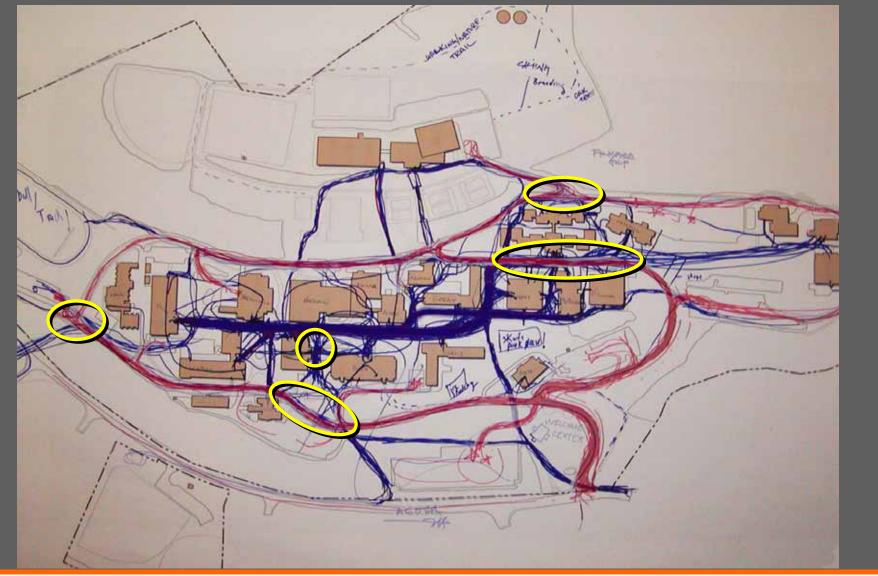
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Property Ownership





What We Learned



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On Charrette - Security





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Campus Accessibility

- > Recent Campus Improvements
- > Dubois access
- > Evacuation Chair
- > Bronco Bus
- Planning and identification needs
- > Dormitories, restrooms, building access
- > Campus Committees





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Campus Open Space / Landscape



- Sequential and transition spaces
- > Pavement materials
- > Tree Canopy
- Potential sculpture locations
- > Lighting



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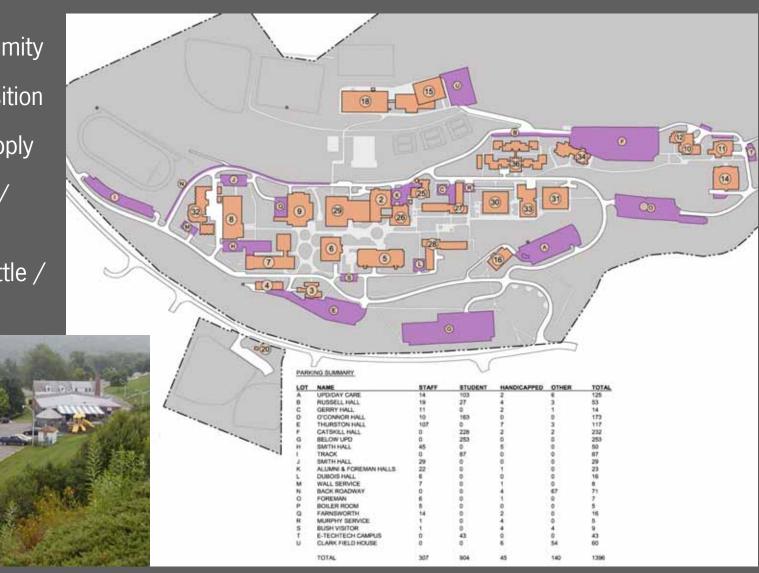
Parking

- > Desired proximity
- > Mid-day transition
- > Adequate supply
- > ADA parking / shuttle

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> Increase shuttle / stops



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> Farrell Hall





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- > Farrell Hall
- > Remove North Hall
 - > Day Care
 - > University Police





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- > Farrell Hall
- > Remove North Hall
- > South Hall
 - > Nursing
 - > Surge
 - > Removal





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- > Farrell Hall
- > Remove North Hall
- > South Hall
- > Thurston Hall
 - > Welcome Center
 - > Hospitality
 - > Admissions
 - > University Police





- > Farrell Hall
- > Remove North Hall
- > South Hall
- > Thurston Hall
- > Air Structure
 - > Life span
 - > Scheduling
 - > Competitiveness





- > Farrell Hall
- > Remove North Hall
- > South Hall
- > Thurston Hall
- > Air Structure
- > Sanford Hall
 - > Determine use, Renovate and allocate space





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- Condition fair to good
- > Baseball/ softball fields
- > Basketball / tennis
- > Air Structure
- > Multi-purpose field
- > Scheduling



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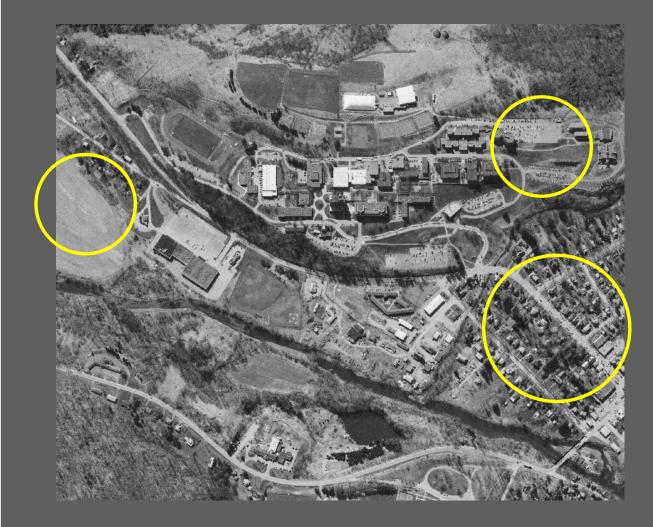
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Current Capacity On-Campus Off-Campus

- > Village
- > Riverview
- > Other?
- > Preferred Style
 - > Suite/Apart
 - > Single
 - > Double



Student Housing



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Thank you SUNY Delhi for making this Charrette a success!

Next Steps

- > Charrette summary
- > Finalize space needs
- > Concept development





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