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WITH CORRECTIONS

PROJECT
7505

UNIVERSITY OF WISCONSIN-WHITEWATER

Winther & Heide Hall

Pre-Design Report – 19I1L

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For clarity purposes, this pre-design report has been split into two volumes. Volume one will address the additions and renovations to Winther Hall and volume two will address the additions and renovations to Heide Hall.

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VOLUME 1: WINTHER HALL

Section 1

PROJECT DESCRIPTION, GOALS & OBJECTIVES

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Section 1

PROJECT DESCRIPTION, GOALS & OBJECTIVES

This project will renovate and add additions to Winther Hall to accommodate a modern learning environment to meet the quantitative and qualitative space needs of the following departments and functions within the College of Education and Professional Studies:

- Education Foundations
- Communication Sciences and Disorders
- Instructional Technology
- Field Experiences
- Education Counseling
- Special Education
- Student Advising
- Curriculum and Instruction
- Student Organizations

The project scope will include removing a majority of the existing interior wall partitions and provide for a new building room layout. Most of the building infrastructure systems will be replaced, including plumbing, HVAC and electrical. A new NFPA-13 compliant fire suppression system will be added, and universal design will be incorporated to bring the building in compliance with current codes. To increase the thermal efficiency of the building, the existing exterior walls will be insulated and the windows, aluminum entrances and roofs will be replaced. All hazardous containing materials will be abated and removed.

To increase the accessibility of the spaces, the existing lecture halls will be “flat floored” and re-purposed to high student involvement spaces such as a student hub and technology center. This includes correcting non-compliant exits with a new exit stair along the west façade that will tie to the center of campus. Current inaccessible and inconsistent restrooms will be demolished and a new accessible, all gender inclusive restroom core will be constructed in a south addition that is in a consistent location at all six floors. Two new elevators will be constructed in a north addition, which will provide redundancy and greater accessibility through modern controls and more spacious cabs (ability to fit stretchers).

The new interior environment will inspire learning, collaboration and will more closely reflect the learning environments that students will be headed into in their careers. Colors and natural materials will be warm, uplifting, environmentally responsible and will echo the look and feel that is UW-Whitewater. Key architectural cues will assist with wayfinding, while the layouts and adjacencies will increase collaboration, efficiency and accessibility of the building.

All plumbing fixtures will be ADA compliant with dual controls and a 1.6 GPF water efficiency. The entirety of the mechanical system will be replaced with this project, incorporating state-of-the-art HVAC equipment and controls, creating a comfortable and efficient building. The new systems will utilize variable air volume air handling units with demand-controlled ventilation. This system will reduce or even eliminate the airflow to unoccupied spaces, thus saving energy.

The existing 80 kW natural gas emergency generator will be reused to serve exit and egress lighting, as well as the new elevators and miscellaneous equipment. Lighting will mainly combine the use of L.E.D. recessed troffers, recessed linear strips and downlights. The original fire alarm will be replaced with a fully addressable system that is ADA compliant with mass notification qualities. Communication systems include category 6 horizontal cabling interconnected by fiber optic backbone, a new public address/sound system, a new clock system per campus requirements, and audio/visual provisions as programmed.

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VOLUME 1: WINTHER HALL

Section 2

PHYSICAL PLANNING ISSUES

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Section 2
PHYSICAL PLANNING ISSUES

Background Information

Winther Hall is an existing 79,777 GSF building located in a prominent location along the eastern edge of the University of Wisconsin-Whitewater core campus on Prairie Street. It has three distinct wings that currently house the College of Education and Professional Services, Psychology and Ethnic Studies. The east wing is a four-story section that houses classrooms, instructional laboratories, and the Counselor Education suite. The tower wing is a six-story section that includes departmental, faculty, and staff offices. The west wing entity consists of two lecture halls and offices on two levels. The building was originally constructed in 1968 as a building to house Education and Psychology curricula. Although there have been subsequent minor renovations, most of the original construction remains intact. A recent small renovation at the first and second floors fit an accessible, all gender restroom, with the remaining restrooms inaccessible. The building is the cornerstone of the College of Education and Professional Studies and actively houses much of the curricula of the college.

The older construction of the building has greatly inhibited flexibility, accessibility and the functionality of a modern learning environment. The renovations and additions look to address these deficiencies, as well as the replacement of older building systems. Further information can be found in the facility condition assessment included in the appendix of this report.

Enumeration

This project is seeking enumeration in the 2021-23 Capital Budget biennium (19I1L) at an enumerated cost of $59,445,000 with a target project budget of $48,500,000

Existing Site Conditions

- Existing Land Use
  - Winther Hall is in the center of the UW-Whitewater campus and is located just northeast of the student union. The topography of the site varies and currently creates challenges for the various sidewalks that tie the building to other campus buildings. Portions of the site were an old creek bed, as the water table is high and there have been previous drainage issues during high precipitation events. With the construction of Hyland Hall, ground water pumps were added to assist in managing ground water drainage. Winther Hall is served by two adjacent parking lots. Parking lot 14 to the north provides stalls for Winther Hall and Upham Hall and is the main parking lot for Winther Hall, including accessible stalls adjacent to the main north entry. Parking lot 13 to the southeast of the building provides stalls for Winther Hall and Heide Hall, including accessible stalls for the entrance along the east stairwell adjacent to North Prairie Avenue.
- Survey
  - A topographic, boundary, and utility survey was completed on 12/11/2020 by Kapur & Associates. It includes a portion of parking lot 14 to the north, North Prairie Avenue to the east, parking lot 13 and the northern portion of the Heide Hall building to the south, and the eastern portion of the Roseman Hall building to the west. The survey is included for reference in the appendix of this report.
- Landholdings/ Ownership
  - The affected site for Winther and Heide Halls is comprised of eight parcels, all of which are owned by the Board of Regents of State Colleges.
- Zoning
  - The site is currently zoned institutional, and the land use will remain the same with the addition and renovations of Winther Hall and Heide Hall. Somerville will work with authorities having jurisdiction, including the City of Whitewater, Walworth County, and the Whitewater Fire Department on applicable approvals needed for permitting on this project.

- Topography
  - Significant grade change occurs around the building, with multiple entry elevations accommodated by sloped walks, ramps, and stairs. The existing site grading makes access to the north main entry and other entries around the building difficult. Stairs and slopes of the sidewalks in various locations are steep and could be considered challenging to those with mobility impairments and in inclement weather. Differing finished floor elevations of adjacent buildings prove challenging for implementing connections, a vehicular drop-off and new accessible parking stall closer to Roseman Hall, as well as alleviating stormwater flooding issues that have plagued this area of campus.
- Vegetation/ Landscaping
  - The landscape ranges from formal foundation plantings to more informal, native style perennial and ornamental grass plantings. Some planters around the building contain no plants or are overgrown with weeds. Several trees exist around the building, with some beginning to decline and others located too close to the foundation. As part of the project, landscape will be reviewed and adjusted to remove declining species, provide adequate space for new additions, compliment the building, and ease maintenance requirements.
- Subsurface Conditions
  - A geotechnical consultant was in the process of completing soil borings at the time of this pre-design report. The geotechnical report will be shared upon completion. Based on information gathered from previous drawings, traditional spread footings are anticipated. The water table will also be taken into consideration for design loads and waterproofing.
- Construction Staging
  - The contractor will secure the perimeter around both Winther and Heide Halls prior to construction start. A construction staging area will be developed further during preliminary design. The site appears to have sufficient space adjacent to the building for a proper construction staging area.

Utilities / Infrastructure

- Steam Piping and Chilled Water Piping
  - Steam is provided by the central campus utility plant and enters Winther Hall at the West wall of the first floor mechanical room. The steam and condensate piping that serve Winther Hall have been slated for replacement in the coming years. The current direction is to replace the steam, condensate and box conduit from Winther Hall to steam pit #28 as a part of this project. The capacity of the existing piping appears to be adequate for future needs. This assumption will be confirmed during design. Chilled water is also provided by the central campus utility plant and enters Winther Hall at the West wall of the first floor mechanical room. Based on the information we have received from the facilities group, the capacity of the existing piping appears to be adequate for future needs.
- Sewer Lateral
  - Winther is served by a 6” cast iron sanitary lateral that enters the building on the south side of the building. Due to the age of the sanitary lateral, it would be recommended to replace the lateral in the renovation process.
- Storm Water Lateral
  - There are two storm drains (6”-8” in size) along the east side of Winther that tie to the city storm line on Prairie Street. Due to the age of theses lines, it would be recommended to replace them in the renovation process.
- Water Service Lateral
  - Winther is served by a 6” ductile iron domestic water service with 68 PSI with a 2” meter. The recommendation is to leave the existing water service unless it is found to be undersized for the requirements of the fire protection system.
- Gas Service
  - The existing gas service is a 1 ¼” diameter line that feeds from Prairie Street to a gas meter on the east side of Winther Hall. The gas line currently serves the science lab and should be adequate for ongoing science lab needs.

- Electric Service
  - Winther Hall is served by a 4160V campus primary feed to an indoor building step-down 750 kVA vault transformer with an 800 amp, 480V distribution and a 1200 amp 208V distribution, all located on the first level.
- Telecommunication
  - The incoming fiber optic feed from the campus service enters the basement mechanical space to a main distribution frame in the electrical room. It is anticipated that the feed will be repositioned to a new electrical room in the renovated design. Existing telecommunication equipment (US Cellular) occupies space within the existing basement mechanical room and rooftop. Additionally, the local police department also has radio communication equipment located in the stairwell adjacent to the roof access. These systems are outside the scope of this project, however, construction will be closely coordinated with these parties to minimize or eliminate any disruptions of service.

Transportation / Circulation

- Vehicular/ Bicycle/ Pedestrian
  - Winther and Heide Halls are easily accessible along North Prairie Street. Although there are not dedicated bike lanes, several sidewalks tie these buildings to the other buildings on this pedestrian friendly campus.
- Parking
  - Winther shares a parking area to the north (lot 14) with Upham Hall and also shares a parking area to the southeast (lot 13) with Heide Hall.
- Deliveries/ Loading Dock
  - Winther does not have a dedicated loading dock, as the previous loading dock along the south was re-purposed to an accessible south entrance to the second-floor level in 2006. Deliveries are currently brought in through the north entrance.

Existing Building Conditions

- Condition of Existing Infrastructure and Equipment
  - It is anticipated that during the building renovations for Winther Hall that all building infrastructure and equipment will be replaced due to the age and efficiency of the older equipment.
- Remediation of Hazardous Materials
  - A Wisconsin Asbestos and Lead Management System (WALMS) inspection was conducted at Winther Hall in 2003 and Heide Hall in 2004. The inspection identified asbestos containing material (ACM) in both buildings that includes tank insulation, pipe fittings, 9” and 12” floor tile and mastic. Although some minor abatement has occurred over the past 17 years, the majority of these ACM’s remain in both buildings and asbestos abatement will be required as part of the renovation project. A separate asbestos abatement consultant, contracted directly by DFD, will design and bid the abatement portion of the project. The Asbestos Abatement Contractor (AAC) drawings and specifications will be incorporated in the overall project documents. DFD will receive separate Asbestos Abatement Contractor (AAC) bids in addition to the MEP and GPC bids. The AAC and asbestos consultant will have a separate contract with DFD. The GPC will be required to coordinate and include the asbestos abatement in the overall construction schedule.
- Construction Staging/ Occupancy of Site During Construction
  - Winther Hall will be vacated prior to and throughout construction.

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VOLUME 1: WINTHER HALL

Section 3

PROGRAM STATEMENT / OCCUPANTS / USERS & ACTIVITIES

SPACE TABULATION

DESIGN CONCEPT / BASIS OF DESIGN

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Section 3

PROGRAM STATEMENT / OCCUPANTS / USERS & ACTIVITIES

Winther Hall is the main home to the College of Education and Professional Studies, among other programs. CoEPS is a cornerstone program of the university. A full renovation of the existing building will breathe new life into spaces and reflect modern learning environments that are able to adapt to ever changing styles of teaching and learning. The building renovation and new additions will allow students and staff to showcase and market their program through spaces that are complementary to the curricula. Full universal design will be incorporated to provide spaces that are fully inclusive of all building occupants. Finally, a complete overhaul of the mechanical, electrical, plumbing and fire protection systems will provide spaces that are comfortable and compliant with current code. This will provide durability and longevity for the university through sustainable adaptive re-use of Winther Hall.

SPACE TABULATION

Space Summary per selected option and program:

- GSF: 88,719
- ASSIGNABLE GSF: 47,670
- EFFICIENCY: 53%

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Instructional Technology / Integration Services					
Coordinator Office	1	133	133	1	133
Broadcast Room	2	64	128	1	128
Production Stream Room	2	64	128	1	128
Technology Lab	45	51	2,281	1	2,281
Reception	1	443	443	1	443
Storage			601	1	601
Total Instructional Technology / Integration Services					**3,714**

Classroom Space						
First Floor						
Large Classroom	60	24	1,208	1	1,208
Large Classroom	54	24	1,086	1	1,086
Large Classroom	53	24	1,058	1	1,058
Small Classroom	29	24	573	1	573
First Floor Classroom Subtotal					**3,925**

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Second Floor					
Small Classroom	30	24	602	1	602
Small Classroom	30	24	605	1	605
Small Classroom	30	24	607	1	607
Small Classroom	30	24	596	1	596
Second Floor Classroom Subtotal					**2,410**
Third Floor					
Large Classroom	55	24	1,092	1	1,092
Large Classroom	54	24	1,088	1	1,088
Large Classroom	45	24	904	1	904
Classroom Storage			206	1	206
Third Floor Classroom Subtotal					**3,290**
Fourth Floor					
Large Classroom	50	24	990	1	990
Large Classroom	50	24	995	1	995
Literacy / Math Lab Storage			336	1	336
Science Lab	23	50	1,163	1	1,163
Science Lab Storage			331	1	331
Art Lab	24	50	1,222	1	1,222
Art Lab Storage			165	1	165
Lab	23	50	1,167	1	1,167
Early Education Lab Storage			162	1	162
Fourth Floor Classroom Subtotal					**6,531**
Total Classroom Space					**16,156**

Student Support Space					
First Floor					
Student Organization Space	15	50	760	1	760
Student Organization Conference Room	10	30	286	1	286
Research Room	1	84	84	4	336
Health Room	1	89	89	1	89
Student Collaboration Space			720	1	720
First Floor Student Support Space Subtotal					**2,191**
Second Floor					
Student Collaboration Space			150	1	150
Second Floor Student Support Space Subtotal					**150**

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Third Floor					
Huddle Room	1	71	71	1	71
Wellness / Family Room	1	143	143	1	143
Health Room	1	82	82	1	82
Student Collaboration Space			927	1	927
Third Floor Student Support Space Subtotal					**1,223**
Fourth Floor					
Huddle Room	1	71	71	1	71
Huddle Room	1	73	73	1	73
Huddle Room	1	81	81	1	81
Student Collaboration Space			428	1	428
Fourth Floor Student Support Space Subtotal					**653**
Total Student Support Space					**4,217**

Communication Sciences and Disorders					
Faculty					
Department Chair	1	147	226	1	226
Office	1	94	94	6	564
Research Office	1	119	119	1	119
Work Room (Shared with Counseling)			104	1	104
Kitchenette (Shared with Counseling)			106	1	106
Adjunct Office (Shared with Counseling)	4	50	186	1	186
Faculty Subtotal					**1,305**
Clinic					
Reception (Shared with Counseling)			376	1	376
Supervisor Office	1	118	118	1	118
Audiology Lab	1	161	161	1	161
Child Language Lab	5	50	243	1	243
Therapy Room	1	112	112	5	560
Storage			61	1	61
Simulation Room	1	141	141	1	141
TeleHealth	1	113	113	4	452
Observation	1	110	110	2	220
All Gender Toilet Room	1	87	87	1	87
Graduate Students Work Area	6	50	321	1	321
Clinic Subtotal					**2,740**
Total Communication and Sciences Disorders					**4,045**

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Counseling Department					
Faculty					
Department Chair	1	147	147	1	147
Office	1	94	94	9	846
Grad Assistant Office	1	74	74	1	74
Faculty Subtotal					**1,067**
Clinic					
Counseling Office	1	113	113	5	565
Storage			115	1	115
Workroom	1	334	334	1	334
Clinic Subtotal					**1,014**
Total Counseling Department					**2,081**
Field Experiences					
Coordinator Office	1	116	116	1	116
Assistant Office	1	107	107	1	107
Conference Room (Shared with Student Advising)	11	25	268	1	268
Total Field Experiences					**491**
Student Advising					
2nd Floor					
Coordinator Office	1	118	118	1	118
Assistant Office	1	106	106	1	106
Advising Office	1	118	118	2	236
Workroom			171	1	171
Reception (Shared with Field Experience)	1	124	124	1	124
3rd Floor					
Outreach Coordinator	1	199	199	1	199
License Examiner	1	132	132	1	132
Student Service Coordinator	1	200	200	1	200
Open Office	1	128	128	1	128
Grad Assistant Office	1	132	132	1	132
Conference	11	25	278	1	278
Work Area	1	120	120	1	120
Total Student Advising					**1,944**

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Dean's Suite					
Dean	1	173	173	1	173
Dean's Assistant	2	174	174	1	174
Assistant Dean	1	118	118	1	118
Associate Dean	1	118	118	1	118
Total Dean's Suite					**583**

Special Education						
Faculty						
Reception	1	131	131	1	131
Department Chair	1	194	194	1	194
Office	1	95	95	18	1,710
Work Room			97	1	97
Kitchenette			97	1	97
Faculty Subtotal					**2,229**
Classroom					
LIFE Classroom	21	50	1,047	1	1,047
LIFE Coordinator Office	1	133	133	1	133
LIFE Teachers Office	2	60	132	1	132
LIFE Testing	1	108	96	1	96
Faculty Subtotal					**1,408**
Total Special Education					**3,637**

Curriculum and Instruction					
Faculty					
Reception	3	130	350	1	350
Department Chair	1	192	192	1	192
Conference Room Fourth Floor	8	25	193	1	193
Conference Room Fifth Floor	11	25	264	1	264
Office	1	95	95	33	3,135
Work Room		97	97	2	194
Kitchenette		97	97	2	194
Total Curriculum and Instruction					**4,522**

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Education Foundations					
Faculty					
Reception	1	121	121	1	121
Department Chair	1	194	194	1	194
Conference Room	10	25	262	1	262
Conference Room	8	25	194	1	194
Office	1	95	95	16	1,520
Work Room			98	1	98
Kitchenette			98	1	98
Total Education Foundation					**2,487**

Building Support Space					
All Gender Toilet Rooms 1st - 4th)			435	4	1,740
All Gender Toilet Rooms (5th and 6th)				2	670
Lobby (2nd Floor)			598	1	598
Lounge (3rd Floor)			305	1	305
Telecommunication Room			80	6	480
Total Building Support Space					**3,123**

Project Total ASF	**47,670**

DESIGN CONCEPT / BASIS OF DESIGN

Architectural

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- Wisconsin Enrolled International Existing Building Code (IEBC) 2015 – Alteration – Level 3
- ADA Standards for Accessible Design (2010)
- ICC A117.1-2009 Accessibility Standards
- Department of Facilities Development (DFD) Accessibility Guidelines
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- Department of Facilities Development (DFD) Sustainability Guidelines for Capital Projects
- University of Wisconsin – Whitewater Facilities Management Peer Review

General Building Spatial Characteristics

- Winther Hall is made up of three distinct wings. The east wing is approximately 9,700 GSF (per floor) and will house the classrooms, clinic space and labs. The west wing is approximately 3,600 GSF (per floor) and will house the student hub center and technology lab. A south wing is approximately 3,700 GSF (per floor) and will house the faculty and administrative offices. A common east-west corridor and stair ties the wings together. A new 600 GSF (per floor) south addition will incorporate new accessible toilet room cores and a new 5,000 GSF (total) north addition will tie in two new elevators with a welcoming atrium lounge space.
- The existing concrete structural system is laid out in a grid with regular bays. The concrete waffle slab system provides clear spans but could prove to be challenging in creating new penetrations/ shafts between floors. This will be further analyzed in preliminary design.
- Based on our review during the field investigations for the facility condition assessment, the exterior masonry appeared to be in excellent condition, however, the original construction provides poor thermal performance. The existing wall system comprises an 8” CMU back up wall with 1” insulation, 1” air space and a rainscreen style brick veneer. The west wing (current lecture hall) has a different wall construction type. The construction is comprised of 12” thick cast-in-place concrete walls, a polyethylene vapor retarder, 1” polyisocyanurate insulation, a 1” air space and brick veneer. Our goal during design will be to retain most of the existing exterior skin and back up wall, while expanding the amount of thermally efficient glazing to draw in natural light and insulating from the inside face to increase the thermal efficiency. A formal study will be done to review the dew point calculations, water mitigation and thermal value of the exterior envelope. A preliminary dew point calculation for this system has been included in the appendix of this report.
- Unfortunately, most of the floor to floor heights are only 11’-8” and include a concrete waffle slab structure (the underside of which is 10’-2), which reduces the plenum space for mechanicals. We anticipate the strategic placement of ductwork and piping to allow for higher ceiling heights and/ or exposed ceilings in select locations aimed at increasing the volume and proportions of the spaces that see frequent use.
- It was determined during the programming session that there is a reduced need for lecture halls in the building and a greater need for high programmed spaces such as a technology lab and student hub. Additionally, the current lecture halls have sloped floors that make accessing these spaces for individuals with mobility impairments difficult. To increase both the functionality and accessibility of these spaces, we are proposing to “flat floor” both levels. This will require demolishing the existing sloped waffle slab between floors and slab on grade at the first level. A new composite concrete/ metal deck floor will be supported by bar joists to maximize the ceiling height at the first floor, by allowing mechanicals to run between joist webs. A new concrete cast-in-place slab-on-grade at the first floor will require compacted fill to raise the floor to the first-floor height. A new west facing exit stair will be constructed to tie the two floors together to a

mid-level landing that is at grade along the west face of the building. A curtain wall system within the stair shaft will provide ample natural light at the stair, with the intent of allowing this light to penetrate into the adjacent spaces.

- The new design will retain the existing exit stairs at the north, east and south. The existing stairwells have large curtain wall systems that we feel exemplify the design style of the building. It is our intent to build off this character with the new design. In addition, the existing stairwells provide lateral bracing for the building, as the shafts are of formed concrete construction with heavy reinforcing.
- New windows will be triple pane with low-E coatings with Argon filled glass. This includes all curtain wall glazing, storefront glazing and window units with integral blinds.
- All new roofing will be a 60 mil fully adhered EPDM roofing membrane over tapered insulation and base layers of polyisocyanurate insulation over a vapor retarder. Additional insulation will increase the R-value over the existing built up roofing system.
- Two new traction elevators will be installed in the north addition with a 4000 lb capacity, and will meet stretcher requirements. The elevators will be specified with third party controllers to allow non-proprietary ongoing maintenance contracts. In addition, the elevator controls will integrate newer software to allow elevator users to call the elevator through an application on their mobile device. The existing elevator and shaft will be decommissioned. Parts from the existing elevator equipment will be salvaged for possible re-use on other projects. The existing elevator penthouse will be retained for other equipment use. A new penthouse will house the elevator equipment room for the two new traction elevators. This space will be conditioned to maintain equipment temperature thresholds. One of the two elevators will be provided with back-up power through a new generator.
- The massing of the building addition housing the atrium and elevators is intended to be harmonious with the proportions of the north stair and entry vestibule. The curtain wall system for this addition and entry vestibule will match the zipper style pattern of the curtain wall to the stair. The north addition atrium space will be two-and-a-half stories, while a portion of the addition will rise six stories to tie circulation space with the new elevators. New glazed curtain wall projections will also be built in the first north bay of the classroom wing and northwest bay of the administrative wing to maximize light to these high-use areas and create further articulation to the building facades. New wall construction at the additions will comprise of 6” metal stud framing, exterior grade gypsum sheathing with a spray on air barrier and either insulated metal panel cladding or a brick veneer with an airspace and continuous rigid insulation. The west wing, which currently does not have windows will receive new punched openings to draw light into the offices from the north and the south. On the south and east faces of the classroom wing, we wanted to provide windows into classrooms while salvaging large portions of the existing masonry building skin for budget considerations. To accomplish this, we provided a random pattern of punched openings with vertical translucent panels to provide a splash of color and depth to the façade. The administrative wing on the west and east faces will receive new thermally efficient windows within the existing punched openings. Vertical translucent panels will be added here as well in a random pattern to match the aesthetics of the south and east faces of the classroom building.

Based on discussions with UW-Whitewater Project Team and Administration, the following departments and functions are planned for each floor:

- Proposed First Floor
  - Technology/ Active Collaboration Lab & ESPORTS
  - Student Org/ Study Space and Conference Room
  - General Classrooms
  - Research/ Study/ Huddle Rooms
  - Mechanical Spaces
  - Health Room
  - Restroom Core
  - Elevator Core

- Proposed Second Floor
  - Student Advising, Field Experience Services and Dean Suite
  - Communication Science and Disorders and Education Counseling Clinic Suite
  - General Classrooms
  - Faculty / Staff offices for Communication Sciences and Disorders and Education Counseling
  - Atrium Lounge Space
  - Restroom Core
  - Elevator Core

- Proposed Third Floor
  - LIFE Classroom, Testing and Offices
  - General Classrooms
  - Collaborative Seating Areas
  - Study/ Huddle Room
  - Wellness and Health Rooms
  - Faculty/ Staff offices for Special Education
  - Administrative Suite
  - Atrium Lounge Space
  - Restroom Core
  - Elevator Core

- Proposed Fourth Floor
  - Science and Art Labs
  - General Classrooms with dedicated storage for Early Education, Literacy and Math Labs
  - Collaborative Seating Areas
  - Study/ Huddle Rooms
  - Faculty/ Staff offices for Education Foundations
  - Restroom Core
  - Elevator Core

- Proposed Fifth Floor
  - Conference Room
  - Faculty/ Staff offices for Curriculum and Instruction
  - Restroom Core
  - Elevator Core

- Proposed Sixth Floor
  - Faculty/ Staff offices for Curriculum and Instruction
  - Restroom Core
  - Elevator Core

Interiors

- Somerville hosted a virtual visioning session on September 30, 2020 with administration, department chairs and student representatives. The goal of the visioning session was to hear directly from the end users what central themes could help facilitate a design that is unique to UW-Whitewater and the College of Education and Professional Studies. The following were the top design elements and common topics of conversation:
  - Natural Light
  - Outdoor greenspace
  - Flexible classroom/ multi-purpose spaces with flexible furnishings
  - Student and faculty spaces that facilitate collaboration
  - Providing openness, but also allow for privacy
  - Focal point- reflecting who we are
  - Statement Entry/ Atrium
  - Welcoming/ friendly environment that is nature inspired
  - Accessibility and gender inclusiveness
  - Security- planning for crisis situations
  - Variety of spaces with built-in technology
- Given this valuable feedback, the design will look to integrate spaces within Winther that do not currently exist or exist in a limited capacity, creating a high-use modern learning environment that is effective, flexible and user-friendly.

Collaborative Spaces

- The building will have a variety of collaborative spaces spread throughout the building, encouraging students and faculty alike to congregate outside of the normal classroom environment. These spaces will encourage students to spend more time in the building for activities such as research, quiet study, small group projects or small gatherings with friends/ classmates. Additionally, faculty will be able to meet with students outside of their private office. Accessibility and security will increase by positioning these spaces adjacent to the main corridors and public spaces.

MEDICAL COLLEGE OF WISCONSIN

Student Hub

- A student hub will be created at the main floor (second floor) near the north and south main entries. The student hub will house the Advising and Field Experience departments, which have the highest levels of interaction with students on a daily basis. This will aid in wayfinding by being a front door resource for students that are new to Winther or prospective students touring the building.

MID-STATE TECHNICAL COLLEGE

Technology Lab

- A new multi-purpose lab will be located on the first floor, below the student hub. It will have more prominence along the main thoroughfare as compared to its current location. The technology lab will be able to accommodate extra classroom space and be a technology center when class is not in session. It will also house an exciting ESPORTS program that will be sure to increase student engagement by adapting the lab space into a virtual reality lab and video gaming center.

INSPIRATION IMAGE

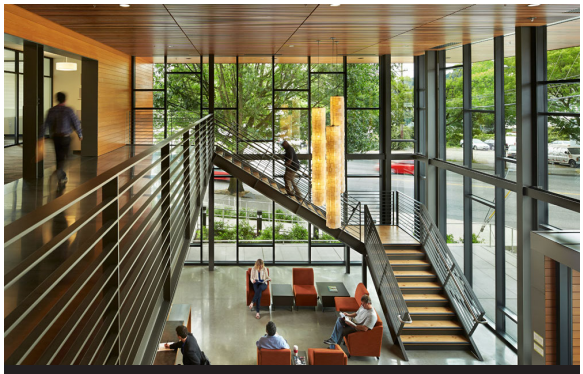
Classrooms

- Classrooms will be technology-rich to allow for remote collaboration and sharing of screens. The classrooms will incorporate flexible furniture and can take on the active learning approach where students collaborate in pods and teachers teach throughout the room (mobile), thereby increasing one-on-one interaction.

INSPIRATION IMAGE

Student Organizations Space

- The students currently use an old physics lab for their organization space. The space is completely inflexible, dark and dated. A new student space will be designed to maximize flexibility with the integration of modern technology. To maximize the use of the space, when not in use for student meetings, the space will act as a quiet study area with an attached conference room for medium group collaboration.



INSPIRATION IMAGE

Furnishings

- Updated furniture will support student's and staff's ability to do a task in private office, workstation, collaborative area and social settings. Waiting areas will offer comfortable lounge seating in a friendly atmosphere. Open areas/niches will offer a variety of soft lounge seating, ottomans, high top tables and seating and computer stations. Office furniture will be flexible, ergonomic and efficient for required work.

INSPIRATION IMAGE

Interior Design

- The interiors will reflect a new, modern active learning environment with warm natural materials and integration of natural light. Some of the top selected images in the visioning session are included in this section as reference. It's easy to see the connection between spaces and variety of collaboration options that we will look to introduce in the new design. Clear sightlines will assist with wayfinding, while soft materials and furnishings will provide a welcoming environment that can adapt over time.

Structural

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- ASCE 7-10
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review

Structural Design Criteria

Risk Category:	II as defined by ASCE 7-10 Table 1.5-1 Is = 1.0, Iw = 1.0 and Ie = 1.0.
Roof Snow Load:	21 psf plus required increase for drifted snow load and mechanical equipment
Public Floor:	100 psf
Stairs and Lobbies:	100 psf
Corridors at first floor:	100 psf
Wind:	115 mph Wind speed - Exposure C
Seismic:	Seismic Design Category A (does not govern)

Materials

EXISTING	Cast-in-Place Concrete:	3000 psi at 28 days (ALL)
	Reinforcing Steel:	ASTM A-15 (Grade 40) typical ASTM A432 (Grade 60) column bars
NEW	Cast-in-Place Concrete:	3000 psi at 28 days: Footings and masonry core fill 4000 psi at 28 days: All other concrete, U.N.O.
	Masonry:	f'm = 2000psi
	Reinforcing Steel:	ASTM A615, Grade 60 ASTM A775, Grade 60 Epoxy Coated Reinforcing Steel at all exterior slabs and stoop slabs that are exposed to deicing salts
	Structural Steel:	Wide flange shapes: ASTM A992 or A572, Grade 50 unless noted otherwise Tube sections: ASTM A500, Grade B Pipe sections: ASTM A53, Grade B Channels, Angles, Plates, Anchor bolts: ASTM A36 Connection Bolts: ASTM A325, Type N (Bearing bolts)
	Composite Deck:	1 1/2" deep, 20 gage wide rib deck

Live Load Deflection Criteria

- Floor and Roof Framing: Total Deflections L/240 / Live Load Deflections L/360
- Exterior Brick Support: L/600 vertical
- Lateral Drift of Building: Height/500 (for entire building and each floor to floor)

Description of Structural Systems

- There are three distinct structural areas of addition/modification being considered for Winther Hall. The first is modifying the existing sloped lecture hall floors by demolishing them and replacing them with a flat slab on grade over compacted fill (lower level) and elevated floor (upper level). To construct the new elevated floor the existing one-way concrete slab and beams would be demolished to hollow out the interior of the room. This would also include demolition of the overhang on the west end of the lecture hall to allow for the installation of a new concrete or masonry stair shaft. The existing exterior walls of the building would be reinforced and laterally braced to the new "flat floor". Punched openings would be supported by new steel lintels as well. The new elevated floor would be supported by a series of structural steel posts and beams supporting a new composite metal deck and concrete floor.
- The second area will be a 6-story restroom addition immediately east of the existing 6-story tower, but not attached to it. There is currently an expansion joint that runs along the east side of the 6-story tower and the 4-story building immediately to the east. The new structure is anticipated to be attached to the 4-story structure and cantilever up from the 4th story roof of the existing building to the top of the 6-story tower to maintain the existing expansion joint. The existing one-story structure occupying the footprint of the addition would be demolished to allow for construction of the new 6-story restroom tower addition. Structural steel columns and wide flange beams will support a new concrete slab on composite metal deck at the floors and either wide flange beams or steel joists at the roof supporting 1 ½" metal roof deck. Braced frames will provide lateral support for the tower where attaching to the existing structure is not possible as the addition of lateral load to the existing building would cause overstress conditions within the existing structure.
- The third area is immediately north of the new bathroom tower on the other side of the existing connector between the existing 6-story and 4-story towers. This addition will contain a new elevator core and lobby space. A new double cab elevator shaft will be provided replacing the existing single cab elevator. The single cab elevator opening will be removed, and the floor will be infilled on all levels to capture additional floor space. The new elevator shaft is anticipated to be constructed of either concrete block or cast-in-place concrete. This north portion is to be tied to the 6-story tower allowing the expansion joint to occur east of the elevator shaft. The rest of the floors and roof will be constructed in a similar fashion to the other two areas described above. New lateral elements (braced frames, masonry, and concrete walls) will be dependent on evaluation of the lateral systems in the existing building. Design of the lateral system will be "tuned" to work in concert with the existing lateral system without overstressing existing shear wall or frame elements of the existing structure.
- Structural steel supporting concrete on metal deck and roof deck is considered the most appropriate for the construction for these modifications/additions. This type of construction allows for easy installation within an existing space and minimizes floor depth given the constraints regarding structure depth present on site. The existing structural systems rely on repetition of forms, and layout to be economical and are not likely to be cost effective for the proposed modification and additions.
- The final area of modification is the demolition and reconstruction of the connector between the lecture hall and the rest of the structure. The existing canopy structure and connector will be demolished to open the area up for a new grand entrance space. The new connector will be constructed with HSS (hollow structural sections) steel columns supported on existing or new concrete foundations depending on location. The framing is anticipated to be steel wide-flange shapes to reduce roof depth supported by the new steel columns or existing concrete columns. The roof deck is anticipated to be similar to the other roof structures, 1 ½" metal roof deck.
- A geotechnical evaluation of the areas to be added or modified has not been completed at this time but based on the existing drawings we anticipate the foundations to be conventional spread footings founded on natural soils or bedrock. Given the proximity to adjacent foundations, adding onto and/or underpinning of existing foundations is likely. Where appropriate, offset footings or other foundation support systems such as helical piers could be considered to minimize the impact on the existing foundation systems.
- Additional entrances and wall openings are anticipated to be framed with structural steel lintels and beams. Given the era of construction, existing masonry cladding walls may need to be reinforced in areas where new openings are considered. The new stairs will be concrete filled steel pans with channel support framing.

Fire Protection

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- Department of Professional Services Peer Review
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review
- Latest National Fire Protection Association (NFPA) standards
- Whitewater Fire Department Peer Review

Design Criteria

- The existing building currently has a manual wet standpipe system. This pipe will be replaced as it exceeds the expected life expectancy for wet systems.
- The building will be designed to be fully sprinkled. A hydraulically calculated wet sprinkler system will designed in accordance with NFPA 13.
- A combination standpipe will supply zone controls on each floor, separating each floor into individual zones. Tamper and flow switches, located on each zone, shall be connected to the building fire alarm system.
- The building is not classified as a high-rise building, as the top occupied floor is less than 75 feet above fire department access. This allows manual wet Class I standpipes to be utilized and these shall be provided in each egress stairway. Two and one-half inch (2 ½") hose valves shall be designed to be provided on each intermediate landing. Hose valves will also be required on the roof. Design of the standpipes will be in accordance with NFPA 14.
- An existing 6" combination water service will provide the necessary water supply. Current hydrant flow tests will be obtained and utilized to determine whether the water supply is sufficient. If the existing water service is deemed insufficient, coordination between civil and plumbing shall be required. A double check backflow preventer will be included in the design to isolate the fire protection system from the domestic water system.
- A fire pump will be included, if required, to meet design area sprinkler demand, in accordance with NFPA 20. If required, the fire pump will be located in a dedicated fire pump room with direct exterior access, as outlined in NFPA 20.
- A 4" x 5" Storz connection will be designed to be used as the fire department connection. The Fire Department Connection (FDC) will be located on the address side of the building as approved per the local fire department. Determination on whether the existing manual wet standpipe system utilizes a FDC will be made and attempts to utilize the same location will be conducted. If a fire pump is deemed to be necessary, then a flush, chrome-plated fire department connection and fire pump test connection will be utilized.
- All system zone's main drains and inspector's test, sized in accordance with NFPA, will be routed to the exterior of the building to allow ease of system testing and draining.
- Concealed quick response sprinklers shall be utilized in all finished areas. In unfinished areas, quick response pendent and uprights shall be utilized. Flexible sprinkler connections may be utilized, but only in areas with acoustical ceilings.

Materials

- Pipe material shall conform to DFD Master Specifications, such that piping that is 2" and smaller shall be black steel, schedule 40 pipe. Piping that is 2 ½" and larger shall be black steel, schedule 10 pipe. Thin-wall steel and CPVC piping shall not be allowed.
- Pipe joints shall conform to DFD Master Specifications and NFPA 13, such that threaded, welded, and grooved joints shall be allowed to be installed. Fabricated fittings and short turn radius fittings shall not be allowed. Mechanical tees with solid backs may be utilized.

Plumbing

Governing Codes, Standards and Reviews

- Wisconsin Dept. of Safety and Professional Services Chapters 381, 382 and 384
- Department of Facilities Development (DFD) Plumbing Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Recommendations and Peer Review

Sanitary Drain, Waste and Vent

- The existing interior plumbing systems, sanitary waste and vent, storm and clear water waste and vent, domestic water piping, water heaters, water softeners and pumping systems with the building will be removed completely. The existing underground building drainage systems will remain in place where feasible.
- The existing underground building sanitary and storm drainage systems will be abandoned in place to minimize the removal of concrete floors. New sanitary and storm drainage will be provided underfloor as needed for the new plumbing fixtures and roof drains.
- All the plumbing fixtures will be removed and replaced with new to accommodate the new room layouts.
- All new sanitary, storm and water piping will be provided throughout the building, along with a new water meter, water heater and softener system.

Storm and Clearwater Waste

- A new storm drainage system will be provided to convey rainwater from the existing roof of the building to the site storm sewers. The roof will be drained by gravity through storm building drains to the site or municipal sewer. Sump pumps, where required, will be duplex, alarmed to the BAS and connected to the emergency power system. Overflow roof drainage will be accomplished through roof scuppers. There are not existing overflow drains on the roof currently.
- Large volume clearwater waste from air handing units will be conveyed by gravity through a separate drain and vent piping system and will connect to the building storm drain system.
- The above ground and below ground storm and clearwater waste and vent piping will be type PVC-DWV Schedule 40 with solvent welded joints. Waste in vent piping located in plenum ceiling area shall meet the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50. Roof drain bodies and above ground horizontal storm and clearwater waste piping will be insulated.

Domestic Water System

- Potable water will be supplied from the municipal water system by means of a combined domestic/fire protection water service. Domestic hot and cold-water piping will be provided to all plumbing fixtures and other devices and equipment that require a water supply. Water hammer arresters will be provided at all solenoid valves and at other potential sources of water hammer.
- Domestic hot water will be generated by a single, semi-instantaneous steam water heater. Hot water will be stored and distributed at nominal 125 deg. F, with no master thermostatic mixing valve. Hot water will be recirculated to ensure near instant hot water delivery.
- Duplex progressive (demand recall) water softeners will be installed ahead of the water heaters. Space will be provided for salt storage.
- Domestic water piping 2” and smaller will be PEX piping, larger then 2” will be type L copper, with soldered or mechanical grooved joints. Press fittings are not permitted. Piping located in plenum ceiling areas shall have material that meets the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50.

- The water system piping will be insulated. Isolation valves will be provided at all risers connections, branch piping connections to fixture groups and connections to equipment.

Materials

- All piping material will adhere to DFD master specification requirements.
- Plumbing equipment to include:
  - Semi-instantaneous steam water heaters to provide hot water requirements
  - Water softeners to condition the cold water to the water heater only to minimize maintenance
- Plumbing fixtures to be ADA compliant.

Plumbing Fixtures

- Plumbing fixtures will be commercial quality, match program requirements and comply with University guidelines. Sample fixtures requirements include: Wall hung toilets with 1.28 gpf manual flushometer valves; and Lavatories integral with counter top with slow closing faucet with .5 gpm flow. Exterior freeze proof wall hydrants with backflow preventer outlets.

HVAC (Heating, Ventilating & Air Conditioning)

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Mechanical Code (IMC) with Wisconsin amendments
- Wisconsin Enrolled 2015 International Building Code (IBC) with Wisconsin amendments
- International Energy Conservation Code (IECC) 2015
- ANSI/ASHRAE/IESNA Standard 90.1 2016
- Department of Facilities Development (DFD) HVAC Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review

HVAC Design Conditions

- Outside:
  - Summer: 89°F dry bulb, 77° wet bulb
  - Winter: -10°F
- Inside Space (Public areas, classroom, office, meeting room, corridor, etc.):
  - Cooling Design:
    - Occupied: 76°F, 50% RH maximum
    - Unoccupied: 82°F, 50% RH maximum
  - Heating Design:
    - Occupied: 68°F, No humidification
    - Unoccupied: 62°F, No humidification
- Inside Space (Electrical and Mechanical Rooms):
  - Cooling Design: No mechanical cooling or humidity control
  - Heating Design: 60°F, no humidification
- Inside Space (IT Rooms):
  - Cooling Design: 76°F, 60% RH maximum
  - Heating Design: 68°F, No humidification
- Inside Space (Entry Vestibules):
  - Cooling Design: No mechanical cooling or humidity control
  - Heating Design: 60°F, No humidification
- Exhaust Rates:
  - 75 cfm/toilet fixture
  - 2 cfm/ sq. ft. or 75 cfm for janitorial spaces

Sound Level Guidelines

- HVAC related noise will conform to the 2019 ASHRAE Application Handbook, Chapter 49, Noise and Vibration Control, Table 1.
  - Classrooms NC/RC25
  - Private Offices NC/RC30
  - Corridors and Lobbies NC/RC40
  - Laboratory NC/RC35
  - Broadcast Room NC/RC15

Ventilation

- Ventilation rates will be designed in compliance with SPS 364.0403 except provide 15 cfm per person instead of 7.5 cfm per person (SPS 364.0403(5)(a). For systems where the ventilation rate calculated using ASHRAE 62.1 results in a lower ventilation rate than calculated using the above method and the calculated rate is in compliance with SPS 364.0403 using the standard 7.5 cfm per person, then the ASHRAE method shall be used.

Temperature Controls

- All controls for this renovation will be DDC with electronic actuators. Controls will be connected to the existing Johnson Controls system utilized on campus. New DDC panels will be provided as needed to provide adequate coverage for the building.

Demolition

- All existing HVAC will be site cleared. This includes four constant volume central air handling units, the associated return fans, a fan coil unit serving the basement mechanical room, and a small packaged rooftop unit. Three of the constant volume air handling units are located in the basement mechanical room, and one is located in the 5th floor penthouse. All associated ductwork, booster coils, grilles, diffusers, etc., will be site cleared. Existing toilet exhaust fans and associated ductwork will also be site cleared.
- The steam-to-water heat exchanger and pressure reducing valve located in the first-floor mechanical room will be site cleared. All hot water piping, chilled water piping, pumps, steam piping, finned pipe radiation, convectors, and cabinet unit heaters will also be site cleared. The steam piping at the existing service entrance will be site cleared back to steam pit #28. Chilled water piping will site cleared back to the entrance point of the building.

New HVAC Systems:

- The existing steam box conduit is pushing into the basement mechanical room. As such, the campus steam piping and box conduit will be replaced from pit #28 to the first-floor mechanical room within Winther Hall. The campus is currently providing 80 psi steam to all campus buildings, but by the time this project is completed, they will have increased the pressure from the plant to 125 psi. The new box conduit and piping will be proposed as a 4” steam and 2” pumped condensate, these sizes will be adequate for Winther Hall.
- Two new steam pressure reducing valves will be provided in the first-floor mechanical room. One reducing valve will be sized for 2/3 of the load and the other will be for 1/3 of the load. A new steam-to-water heat exchanger will be located in the first-floor mechanical room and will provide heating hot water to the facility.
- New heating water pumps with variable frequency drives and hot water piping will distribute heat throughout the building. The variable frequency drives will be controlled by a differential pressure sensor located within the heating system piping.

- Low pressure steam will also be routed to new domestic water heaters provided by the plumbing contractor. The water heaters will be located in the first-floor mechanical room. All traps and steam valve trim will be provided with the domestic water heaters.
- Convectors and cabinet unit heaters will be provided to heat entrances and toilet rooms.
- Finned tube radiation will be provided at areas with glazing in common spaces and offices.
- Early project estimates for the chilled water demand at Winther Hall show that the existing 6” chilled water piping will be adequate. Based on square foot estimates the building will utilize approximately 700 gpm of chilled water. This gpm is based on a 12°F delta across the cooling coils. A 6” chilled water pipe can typically handle around 775 gpm. Historical data provided by the UWW Facilities Department indicates that in the highest chilled water flow rate seen at Winther Hall in recent years was 450 gpm.
- One variable air volume central air handling unit will be provided to serve the six-story tower. The unit will be approximately 24,000 cfm or 80 tons. This unit will be located in the first floor mechanical room. This air handling unit will consist of a filter section, hot water heating coil, chilled water coil, access sections and a fan section. Each fan shall have a variable frequency drive.
- One variable air volume central air handling unit will be provided to serve the two-story multi-use space. This unit will be approximately 8,200 cfm or 27 tons. This unit will be located in the first floor mechanical room. This air handling unit will consist of a filter section, hot water heating coil, chilled water coil, access sections as required and a fan section. Each fan shall have a variable frequency drive.
- One variable air volume air handling unit will be located within the penthouse mechanical room. This unit will be approximately 53,000 cfm or 175 tons. This unit will serve the four-story classroom portion of the building. The air handling unit will consist of a filter section, hot water heating coil, chilled water coil, access sections as required and a fan section. Each fan shall have a variable frequency drive.
- Air handling units will also include energy recovery if required by 2015 IECC. Determination if energy recovery will be required will be made as air handling unit cfm and outside airflow rates are determined later in design.
- The air handling units will utilize demand-controlled ventilation based on occupancy and CO2 levels. This will be accomplished with the use of variable air volume boxes which damper down or completely off when a zone is not occupied.
- Individual zones will be served by variable air volume boxes with hot water heating coils. Spaces with exterior windows will include finned pipe radiation.
- Office spaces will have a single variable air volume box serving multiple offices based on exposure and space usage. No more than three offices will be zoned together. Occupancy sensors will be tied into the variable air volume box to reduce or shut off air flow when the space is not occupied.
- Classrooms will be zoned individually. One new variable air volume box with reheat will be provided for each classroom. Occupancy sensors will be tied into the variable air volume box to reduce or shut off air flow when the space is not occupied.
- Common spaces will have multiple variable air volume boxes to provide proper temperature control for the various spaces.
- Return air from the spaces will be hard-ducted whenever possible.
- Toilet exhaust fans will be located on the roof.
- IT rooms will be provided with direct expansion style fan coil units to cool the space. If the cooling load is small enough, transfer fans could be considered as an alternative method for cooling these spaces.
- The existing chilled water and steam condensate meters have been replaced or are currently being replaced and will be reused and potentially relocated within this project.

Electrical

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- ANSI/IEEE C2 - National Electrical Safety Code
- ANSI/NFPA 70 - National Electrical Code
- NECA - Standard of Installation
- NEMA Standards
- Electrical Code Volume 2, Chapter SPS 316, Wisconsin Administrative Code
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review

Primary Electrical

- The campus primary is routed through a campus-owned medium voltage loop system. A new 4160V feed will be connected to the existing exterior loop switches. A new 4160 volt switch line-up will be provided in a dedicated medium voltage room on the first floor of the building. This line-up will consist of 4160V step down transformers with secondary distributions of 480/277V and 208/120V, 3-phase, 4-wire distributions, which will be located inside the building electrical room. The medium voltage room will contain a ground bus around the perimeter of the room.

Electrical Power and Lighting Distribution

- The distribution switchboards will be located in the main electrical room on the first floor and be rated for approximately 800 amps at 480/277 volts and 1200 amps at 208/120 volts. 480/277V distribution will feed large motor loads.
- Electronic secondary metering will be incorporated on both main distributions for energy in-use monitoring.
- 480/277 Volt branch panels will be provided in penthouse and mechanical room.
- 208/120 Volt general power branch panels will be provided on each floor for local distribution of lighting and power.
- Surge protection (SPD) for all main switchboards and distribution panels will be utilized.

General Power

- General purpose and specific-use receptacles will be utilized based on the building design and requirements of the User Agency. Per DFD guidelines; six receptacles shall be the maximum connected to a general 20A branch circuit. For system furniture assemblies with multiple workstations; circuits will be assigned according to design guidelines. The maximum load on any one circuit shall not exceed 12 amps. No more than two workstations should be served by any one branch circuit.
- All power conductors will be installed in metallic or non-metallic raceway systems. Conduits will be independently supported, and not from other systems such as ductwork, sprinkler, etc.
- Miscellaneous equipment with a load greater than 6 amps should be connected to a dedicated circuit. Equipment less than 6 amps can be circuited with general-purpose receptacles but the connected load for the circuit shall not exceed 12 amps.
- Drinking fountains and vending machines to be fed from GFCI breaker in branch panel.

Lighting

- L.E.D. lighting will be connected at 120 volts. L.E.D. fixtures will be energy-efficient, easy to maintain, and appropriate for the intended function of the space.
- The designed lighting levels will be based on the latest version of Illuminating Engineering Society of North America (IES) handbook.
- Controls shall be a combination of automatic and manual lighting controls throughout the building. Manual wall dimmer switches (0-10V) will be provided, as well as occupancy sensors or vacancy sensor switching where practical. Interior daylight sensors will be used where access to daylight can provide sufficient illumination. Controls will be designed to the current code. A building automatic control system may be provided within the building in classrooms and multi-occupant spaces based on final design. User Agency has used a Creston lighting system, which is already installed in other campus buildings.
- Style of lighting design intent in particular areas are as described in the chart below.

Area Description	**Luminaries** (LED type light source)	**Controls**	**Light Levels**
Lobby Public Areas	Suspended decorative and recessed downlighting for ambient.	Centralized lighting control system.	10-20 footcandles
Classrooms	2'x2' or 2'x4' recessed with volumetric distribution.	Occupancy sensor with multi-level zone switching, controlled through centralized lighting control system and local touchscreen.	50 footcandles
Small and Medium Conference/Collaborative Learning Areas	Linear recessed for main area and downlights at perimeter. Some areas to have 2'x2' or 2'x4' recessed with volumetric distribution.	Vacancy sensor with multi-level switching.	50 footcandles
Large Conference/Meeting Rooms	Linear suspended with 30% up and 70% down distribution. Downlights at perimeter.	Occupancy sensor with multi-level switching. Dimming for downlights.	50 footcandles
Restrooms	2'x2' or 2'x4' recessed with volumetric distribution.	Occupancy sensor with manual switch.	30 footcandles
Utility Spaces	2'x4' recessed troffer.	Occupancy sensor with manual switch or local timer switch.	30 footcandles
Electrical/Data Rooms	1'x4' suspended industrial.	Manual switches.	50 footcandles
Mechanical Rooms	1'x4' suspended industrial.	Manual switches.	30 footcandles
Stairwells	Linear suspended downlight.	Centralized lighting control system.	20 footcandles
Private Office	2'x2' or 2'x4' recessed with volumetric distribution.	Occupancy sensor with multi-level switching.	50 footcandles
Storage	1'x4' suspended industrial.	Occupancy sensor with manual switch.	10-30 footcandles

Emergency Power

- The existing emergency power system generator is located outside of the building and will be utilized for new construction if the capacity is sufficient. Existing generator is a Cummins, 106kVA, 120/208V and is approximately 5 years old.

- All components of the emergency branch shall be fully selectively coordinated to comply with NEC requirements. This may be done with new fusible branch panelboards.
- Existing transfer switches may be reused.
- The following equipment shall be connected to the generator:
  - Exit and Egress Lighting (via UL924 control units)
  - Fire Alarm
  - Emergency Voice/Alarm Communication Systems
  - Elevator Motor and Cab Lighting
  - DDC Panels
  - Mechanical Pumps as needed or determined by User Agency
  - Sump Pumps
  - Technology (I.T.) Equipment and associated Cooling
  - Miscellaneous Load as required by the User Agency

Lightning Protection

- Existing lightning protection system will remain. Partial removal and re-installation may be required due to re-roofing scope of the project.

Fire Alarm

- A complete addressable fire alarm system will be installed. System initiation will consist of individually addressable smoke and heat detectors, as well as addressable manual pull stations. All fire alarm system wiring will be installed in ½" conduit dedicated to the fire alarm system; free-air wiring may be specified if the User Agency and DFD are in agreement.
- Fire Alarm Control Panel shall include voice communications systems.
- Remote LCD annunciators will be located at the main entrances and as required by the local fire department. A fire alarm handset shall be provided at the F.A.C.P. to be utilized for emergency announcements.
- Systems audible and visual notification levels will be ADA and NFPA compliant.
- Additional notification, strobe and audio will be provided in rooms based on ADA identification and as coordinated with User Agency requirements.
- Manual pull stations shall be provided with plastic lift cover at all building exits and stairwells.

Electronic Access Control

- Electronic access control devices and connections, including credential readers, connections to electrified door locking hardware, connections to door hardware request to exit switches, and connections to door position switches will be provided at User-Agency identified doorways.
- Electronic access control system cabling for these devices will be furnished and installed by this Contractor.
- Where doors are equipped with automatic door operators and electronic access control functionality, automatic door operator activation paddles will be wired as inputs to the electronic access control system and automatic door operators will be wired as outputs from the electronic access control system (for activation switching purposes), and the electronic access control system will be configured and programmed to activate the automatic door operator only if the door is unlocked.

- Electronic access control system panels will be wall mounted in the nearest technology room.
- Any licensing, configuring, programming, testing, adjusting, and commissioning associated with new electronic access control system will be completed by this Contractor.
- Cable will be installed “free-air” with pathways for all electronic access control system cabling consisting of ½” conduit to above accessible ceiling, J-hooks and cable tray above accessible ceiling.

Video Surveillance

- Video surveillance cameras will transmit video to User Agency’s video management software server(s) via User Agency’s Ethernet switches and Ethernet network for recording, viewing, and management of video. All necessary licensing, configuring, programming, testing, adjusting, and commissioning associated with new video surveillance cameras will be completed by this Contractor.
- Cable pathways for all video surveillance cabling will consist of conduit, J-hooks and cable tray. Contractor shall size back boxes per specified minimum size, manufacturer’s recommendations and applicable codes and provide larger conduit where required to accommodate quantity and size of associated cables.
- Horizontal video surveillance camera cabling from camera locations to patch panel(s) in technology room(s) will consist of one (1) Category 6 UTP copper cable at each camera location.

Two-Way Emergency Communication System

- Two-way emergency communication systems complying with IBC sections 1009.8.1 and 1009.8.2 shall be provided at the landings serving each elevator or bank of elevators on each accessible floor that is one or more stories above or below the level of exit discharge. Where two-way emergency communication systems are provided within areas of refuge (IBC section 1009.6.5), two-way emergency communication systems are not required at the landings serving the elevator(s).
- The Internal Call System shall provide communication between each required location and the Fire Command Center or a Central Control Point location. Visual indicators on the Master Control Station (located at the Central Control Point) will notify rescue personnel which Remote Call Station(s) need assistance. The Master Control Station must allow rescue personnel to speak to all Remote Call Stations simultaneously or to individual Remote Call Stations.
- Upon activation of the emergency push button at a Remote Call Station, a call will be automatically placed to the Master Control Station. If no one answers at the Master Control Station, the External Call System shall dial a secondary location outside the building to activate two-way off-site person-to-person voice communications. The External Call System shall have the ability to be programmed with a minimum of two (2) emergency phone numbers, which will be coordinated with the User Agency.
- Wiring from the Master Control Station to the Remote Call Stations shall be composed of two (2) twisted, shielded pairs in either 22 or 24 AWG wire or as recommended by the manufacturer.

Communications

Governing Codes, Standards and Reviews

Applicable portions of the following codes, standards, regulations and recommendations shall be observed in the design of the telecommunications cabling system, technologies and supporting facilities:

- Telecommunications Industry Association/Electronics Industry Association (TIA/EIA)
  - ANSI/TIA-568-C.0 - Commercial Building Telecommunications Cabling Standard - Part 0: Generic Telecommunications Cabling for Customer Premises
  - ANSI/TIA-568-C.1 - Commercial Building Telecommunications Cabling Standard - Part 1: General Requirements
  - ANSI/TIA-568-C.2 - Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted-Pair Cabling Components
  - ANSI/TIA-568-C.3 - Commercial Building Telecommunications Cabling Standard - Part 3: Optical Fiber Cabling Components
  - TIA-568-C.4 - Broadband Coaxial Cabling Components Standard
  - ANSI/TIA-569-C - Telecommunications Pathways and Spaces
  - ANSI/TIA/EIA-606-B - Administration Standard for Telecommunications Infrastructure
  - TIA-607-B - Generic Telecommunications Grounding (Earthing) and Bonding for Customer Premises
  - ANSI/TIA-758-A - Customer-Owned Outside Plant Telecommunications Infrastructure Standard
  - ANSI/TIA-942 - Telecommunications Infrastructure Standard for Data Centers
- International Telecommunications Union - Telecommunications (ITU-T)
- International Organization for Standardization (ISO)
- Local/National Electrical Codes

Structured Cabling System (SCS)

- The design intent of the SCS is to provide a flexible and modular cabling system, which will support today's technology and adapt to new technology that may be used in the future and is easily modified to support additional capacity and functionality.
- An existing telecom service enters the building on the basement floor in the mechanical room. The design intent is for the service to remain in place for reuse and extend to new Entrance Room (ER) for distribution in new construction.
- Provide (2) CAT6A F/UTP cable to new wireless access points. Wireless access point locations and placement to be coordinated with User Agency.
- Provide CAT6 data outlets as required for each type of space based on it's usage. Final locations to be coordinated with the User Agency.

Entrance Room (ER)

- The telecommunications service Entrance Room (ER) serves as the point of demarcation for incoming telecommunications services from service providers and will stand as the transition point between outside plant (OSP) cabling and the building cable plant.
- The design intent is that there shall be a dedicated ER for routed services and carrier equipment to serve the building.

- The ER will provide space for carrier equipment and termination of carrier circuits such as trunk terminals, multiplexers and fiber optic terminals. The purpose of this space is to facilitate the termination, splicing, rearrangement and distribution of incoming telecommunications (copper or fiber) cables which ultimately service the building.
- Additionally, the ER may serve as a pass-thru for some carrier services that are delivered directly to the Main Equipment Room (MER). Copper and fiber optic cable will provide for the extension of circuits from the ERs to the MER.
- The ER should be arranged so that it is not susceptible to flooding from sources inside or outside the building. The area should not be traversed by wet pipes, neither run overhead or along the walls.
- All incoming copper and optical fiber termination, cross-connection and voltage surge protection equipment within the ER should be furnished, installed and maintained by the service provider with the exception of cabling ties to the MER provided by the User Agency.

Main Equipment Room (MER)

The MER is the central point of telecommunications terminations for all of the network, voice, data and security transmissions within the building.

- The MER will be the point of termination and cross connection for fiber optic backbone cables.
- The MER will also serve as the main termination point for all inter-building and intra-building backbone copper cables.
- The MER will be sized and arranged to accommodate the following systems:
  - Voice communications hardware, e.g. VoIP, to support the voice communications
  - Local Area Networking equipment (switches, routers, firewalls, etc.)
  - Wide Area Networking equipment
  - Wireless LAN Networking equipment, Wireless Access Points (WAP)
  - Audiovisual and CATV communications equipment
  - Infrastructure Application Servers (e-mail, DHCP, TFTP, etc.)
- Power outlets for all transmission and terminal equipment should be fed from UPS system dedicated to the MER backed up by generator power.

Telecommunications Room (TR)

- The Telecommunications Rooms (TRs) are defined as the transition point between the backbone cabling system and the horizontal cabling system. The TRs, located on each floor, provide space for backbone and horizontal cable terminations, patching and cross-connect equipment, LAN/WLAN) electronics and interfaces between the cabling backbone, transport electronics and end user devices.
- Criteria established under the TIA 568C standard set forth distance limitations on high performance cabling systems, which will be discussed in the cabling systems section below, but has a direct effect on the placement of these distribution rooms. The TRs must be centrally located on each floor so that the installed and terminated horizontal cable lengths do not exceed 295 ft (90 m).
- The TRs will be arranged to accommodate the following systems and equipment:
  - Termination and patching facilities for horizontal cabling
  - Termination and patching facilities for voice, data and video backbone cabling
  - Hardware and racking for LAN cabling switches, VoIP switches, video cabling hubs, converters and other device sharing equipment
  - Wireless LAN Networking equipment, Wireless Access Points (WAP)

- Distributed Antenna System (DAS)
- Building management systems
- Security systems
- CATV equipment (if required)
- Vertical riser pathways

- Power outlets for any transmission and terminal equipment located within the TR should be fed from an electrical panel dedicated to these loads, ideally located within each TR. Panels serving the TRs should be on the building emergency power distribution system.
- TRs may also include capacity for fire alarm extension panels, if required.

Horizontal Cabling Pathways

- The horizontal pathway will be provided within accessible ceiling areas wherever possible. The provision of a properly sized cable tray will provide flexibility in installing, modifying, adding or deleting any portion of the cable plant.
- All pathway routes shall be coordinated with other building services (electrical, mechanical, etc.) to assure proper clearance and access as well as to avoid impact from heat, electro-magnetic interference or leakage from other building services.
- The pathway system should be coordinated with the electrical distribution system in order to maintain a minimum 12 in. separation between parallel runs of telecommunications and electrical cabling. Where 12 in. separation is not possible, the telecommunications cabling should be separated from electrical cables by a ferrous material to minimize interference. Where electrical and telecommunications cabling cross, it should be at right angles only.

SCS Cable Types

- The SCS cabling infrastructure has been defined above as the cabling system that interconnects all technology spaces in the facility, from the ER, through the main equipment room, to the individual floor telecommunications rooms, and finally out to the equipment outlets.
- The telecommunications cabling will be designed as follows:
  - Horizontal CAT6 cabling shall be home run from each telecommunications outlet to its respective TR.
  - No intermediate termination or patching facilities will be allowed.
  - Inter-floor backbone optical fiber cabling should be home run from the MER to each respective TR.
  - Inter-floor backbone copper cabling should be home run from the MER to each respective TR.
  - All cable is to be of PVC, LSZH or plenum construction depending on local codes and standards. Cable length limitations should be as follows:
    - Horizontal Cabling – 295 ft (90 m) from the workstation outlet to the termination point located within the TRs.

Fiber/Copper Backbone Cabling

- The fiber backbone cables, consisting of 50/125 um LASER-optimized multiple-strand, single-mode optical fiber cables will be provided from the MER to each of the TRs. Fiber counts will be coordinated with the User Agency. For the primary backbone infrastructures, a minimum 24-strand/core, single-mode fiber cable and 12-strand/core, multi-mode fiber cable can be installed. This strand count will provide for a home run communications solution as well as spare capacity for other systems or network topology changes.

- All fibers shall be terminated at both ends and positioned on patch panels. Connectors include SC (preferred) and LC types.
- The fiber backbone and systems design will provide a VoIP solution throughout the building.
- Internal copper backbone cables, consisting of a minimum of 25 pair, should be provided from the ER to the MER and to each of the TRs located on each floor. This will provide limited copper based analogue and digital voice grade services to each of the floors.
- The copper backbone cables should be terminated onto rack mounted patch panels in the TR. Termination in the MER and ER should be on 110-style wall-mounted frames.

Horizontal Cabling

- The horizontal cables connecting the user device to the network at a minimum should consist of the following Category 6 and 6A compliant 4-pair unshielded twisted pair (UTP) cables.
- Individual applications as follows:
  - All 4-pair UTP cables should be terminated at the outlet utilizing Category 6 or 6A, 8-pin modular connectors with the 568B wiring configuration.
  - All 4-pair UTP cables are to be terminated within the MER and TR cabinets and racks on rack mounted 24 or 48 port patch panels utilizing the 568B wiring configuration. The termination method should be identical for voice, data or video connections.

MER Racks

- Each rack located within the MER will be of the following specification:
  - 42RU high
  - 24 in (600 mm) wide x 53 in (1080 mm) deep
  - Front and rear 19” (9483 mm) mounting rails
  - Vertical cable management on both sides at the front of the rack for patch lead management
  - Lockable wire mesh front and rear split doors
  - Removable side panels for each rack bay
  - Vertical power distribution strip mounted at the rear of the rack
  - 3 in. (75 mm) tray fitted both sides to allow for cable management
  - All racks are to be bayed together in the MER
  - All racks will be bonded to the telecommunications grounding earth bar

TR Racks

- Each rack within the TR rooms will be of the following specification:
  - 7’ high, 19 in. (483 mm) mountable with standard EIA hole spacing
  - 42U minimum usable spaces
  - Racks shall be bolted to the slab at front and rear flanges and tied to overhead ladder rack
  - All racks are to be bayed together in the TRs
  - Vertical cable management should be dual sided for patch lead management at the front and horizontal cable distribution management to the patch panels at the rear

- Vertical power distribution strip a minimum of 5 ft (1.5 m) mounted to stand off brackets at the rear of the racks
- All racks will be bonded to the telecommunications grounding busbar (TGB)

Telecommunications Grounding and Bonding

- The SCS cabling system will be provided with a signal and telecommunications equipment grounding system, in accordance with the ANSI/TIA/EIA Joint Standard J-STD-607B, and local codes and standards documents. The grounding system will protect cabling and equipment from hazardous voltages and electromagnetic interference (EMI). This is an important part of the telecommunications system, maintaining ground continuity over the entire transmission network throughout the building. The design intent is as follows:
  - A Telecommunications Main Grounding Busbar (TMGB) located in the telecommunications service Entrance Room (ER). The TMGB should be bonded to the building common grounding electrode system (MGB) at the electrical service entrance for the building. Minimum #3/0 AWG copper conductor.
  - A telecommunications grounding busbar (TGB) should be located in each TR and MER.
  - A telecommunications bonding backbone (TBB) conductor(s) from the TMGB to the TGB in each TR.
  - A grounding equalizer (GE) conductor shall be run between the TBB's at every 3rd floor.
  - A copper grounding cable should connect each grounding busbar (TGB) to the electrical distribution board serving the respective TR.
  - TBBs should be installed in continuous lengths. The TMGB and TGBs should be solid copper or electro-tin plated, and insulated from their supports.

Pathway, Space and Media Identification

- An identification system should be developed to uniquely identify each pathway segment, main communications room, telecommunications room, cabinet, rack, termination panel, grounding component and cable installed within the facility. All horizontal and backbone cables should be assigned a unique alphanumeric designation for identification purposes. Appropriately marked labels should be provided at both ends of each cable.
- Labels having the appropriate cable designation should be provided in the following locations for each cable:
  - On the outlet face plate in the work area
  - On the termination patch panels in the MER and TRs
- All cable tray is planned for above accessible ceilings must be of metal construction. Wire mesh and ladder types will be coordinated with the User Agency. Trays will be grounded per TIA/EIA 607 standard and NEC. Cable trays will not be used as a walkway or ladder.

VOLUME 1: WINTHER HALL

Section 4

SPECIAL PLANNING ISSUES
SUSTAINABILITY GUIDELINES

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Section 4

SPECIAL PLANNING ISSUES

Environmental Impact Statement

- Winther and Heide Halls will likely require either a type II or type III Environmental Impact Statement. The EIS will be recorded by the university after enumeration of the project.

Historic Preservation

- Winther and Heide Halls are not on local, state or national historic preservation registers.

Zoning

- The zoning for both projects will remain unchanged. No rezoning or conditional use will be required.

Commissioning Level

- A level 1 commissioning is required for the Winther and Heide Hall projects and is included in the A/E scope of services.

Movables- Furniture, Fixtures and Equipment

- Somerville will assist in preliminary design with the university, UW Systems and DFD on salvaging existing (newer) furniture for re-use in the renovated areas. Additionally, movable equipment and furniture selections will be further explored to determine layouts for the procurement process in construction.

SUSTAINABILITY GUIDELINES- FRAMEWORK FOR DESIGN EXCELLENCE MEASURE NARRATIVES

The Winther Hall project will be a Tier 2 and will follow the requirements for both Tier 1 and Tier 2 of the DFD Sustainability Guidelines

Framework for Design Excellence Measure 1: Designing for Integration

- Meeting at the start of design
  - Kick-off meeting was held on October 2, 2020. The parties involved included UW-Whitewater, UW-Systems, DFD and the design team representatives of Somerville, Thunderbird and Kapur Inc. Subsequent meetings will be held during preliminary design and final design to track the implementation of the Framework for Design Excellence measures.
- A narrative has been provided for each measure that demonstrates how the sustainability guidelines will be incorporated into the project, but ongoing research and design collaboration between the design team, DFD, UW-Systems and UW-Whitewater will be key to the successful implementation of these measures.
- We have referenced AIA's Designing for Integration Standards and the 10 COTE measures.

Framework for Design Excellence Measure 2: Designing for Equitable Communities

- Track and document project's Walk Score
  - Winther Hall has a Walk Score of 42 and a Bike Score of 55. See the attached documentation for this at the end of this section.
- Track and document the project's level of engagement
  - Track and document the project's level of engagement using Arnstein's Ladder of Citizen Participation Referenced AIA's Designing for Integration Standards- As noted previously, the project will require either a type II or type III Environmental Impact Statement. As part of this process, local citizens will be informed and will be allowed to

participate in the process of reviewing the design of the project. Since most of the project will be a renovation of the existing building, the minor additions will likely have a minimal impact on the built environment and surrounding neighborhood. A new site design with a dedicated drive lane will improve site accessibility, increase wayfinding and maintain a connection to the central campus. In addition, new landscaping and integrated storm water management will tie to nature and soften the northern edge of the site which currently has several impervious surfaces. All documentation for the environmental impact statement and associated citizen involvement will be tracked in future design reports.

- In preliminary design, the design team will work further with UW-Whitewater in coordination with the COTE Super Spreadsheet to anticipate the pounds of carbon dioxide emitted per occupant per year and will determine the average commuting distance and average mpg of the building's occupants.
- Provide bike racks within 100 yards of the project's primary entry. The following counts are required:
  - Classroom: 1 space per 4 students= 162 required
  - Office/ Workplace/ Laboratory: 1 space per 2,000 sq. ft. = 9 required
- Listed above are the required number of bike parking stalls based on the sustainability measures. The final number of bike stalls will be further discussed with the DFD, UWS and UW-Whitewater team members to determine the number that is appropriate based on demand. Currently there are 34 permanent bike stalls to the south of Winther and three movable bike stalls at the front of Winther with room for an additional 41 bicycles. Additionally, the site design will show areas where additional bike racks can be easily added as demand grows. The university has stated a preference that any new bike racks be removable due to snow removal in the winter.
- Provide one mother's room per the first 200 occupants and one per 200 occupants thereafter.
  - Rooms will be provided on the first and third floors; however, we changed the name and function of the spaces to be more inclusive. In lieu of calling it a mother's room, it will be labeled as a health room. The health room will provide the typical amenities of a lactation space but will be available for use by all building occupants. In example, the space could also be used for dispersing medications such as insulin.
- Provide one wellness room.
  - We provided a wellness room also on the third floor. It will be used as a quiet meditation space with access to natural light via windows. The room will have a higher level of acoustics to help separate the space from the adjoining spaces. The space will also be used by families to provide a little more privacy for parents and their children that may be visiting the campus.
- Parking is currently shared amongst several buildings on campus and will not be modified as part of this project.
- Electric Vehicle Charging Stations
  - The University currently has 1 electric vehicle charging station installed at the north end of lot 14. The University is reviewing the overall campus charging station locations, and the preference is no additional charging stations as part of the project.
- The project is adjacent to a major pedestrian thoroughfare on campus, utilized by walkers, bikers, joggers, etc. to connect to other areas of campus.
- Provide 25% reduction of on-site required parking space compared to local zoning requirements. Although future master plan layouts show a reduction in parking in order to accommodate future buildings, this project will not include any new or resurfaced parking lots.
- All applicable site lighting will be replaced with new LED energy efficient light fixtures that will provide ample lighting for site safety and wayfinding.
- Landscape will be updated during the project in select areas, along with the re-use of existing benches, and new site furnishings may be added based on programming.

Framework for Design Excellence Measure 3: Designing for Ecology

- Dark Sky Compliance
  - All new LED site lighting will include cut off fixtures to minimize light pollution beyond the extents of the site.
- Tree Survey Data
  - The completed site survey shows the location of existing trees and vegetation. The new site design will minimize the removal of trees and vegetation where possible.
- Bird Collision Deterrence
  - The new design will incorporate film or frit in locations where the glazing exceeds 20%. This could include custom laser cut film that creates a design that is specific to and reflective of the Winther Hall brand and design.
- Reduce Urban Heat Island effect
  - Although a new parking lot is not a part of the project scope, new walkways and drive lanes will be paved in concrete to decrease the Solar Reflectance Index (SRI) of hard surfaces and adjacent landscaping will help reduce the heat island effect.
- Native Vegetation
  - The new landscape design will include native landscape plantings that are water-efficient, durable and salt tolerant to minimize ongoing maintenance and provide longevity to the landscaping that envelopes the building. This will also include landscaping that integrates species that support pollinators. Existing landscaping, especially along the south side will be maintained and restored by supplementing new native plantings in areas that have seen damage and weed growth.
- Wisconsin Environmental Policy Act (WEPA)
  - Landscape will be updated during the project in select areas, along with the re-use of existing benches, and new site furnishings may be added based on programming.

Framework for Design Excellence Measure 4: Designing for Water

- Define the project boundary
  - The limits of the project boundary are shown on the survey and proposed site plan included in the appendix of the report.
- Oil and Grease Control
  - A kitchen grease interceptor is not anticipated for this project.
- Reduce Total Suspended Solids
  - Most of the project area does not affect the parking lots which are the major producers of total suspended solids. However, in the new areas of pavement, such as the drop-off area, bioinfiltration cells will be investigated to reduce total suspended solids.
- Safe Overflow
  - Low spots currently exist on the project site, and the site is surrounded on all sides by development, but avenues will be investigated to remedy any area without safe overland flow.
- Indoor Water Efficiency
  - The plumbing fixtures will be provided with the following water flow: Water closets 1.28 gpf, urinals .5 gpf and lavatories .5 gpm. The water softeners will be high efficiency units.

- Peak discharge
  - The site areas are confined, especially in the lower elevations where water gathers; bioinfiltration cells or underground detention will be investigated for peak discharge control.
- Infiltration and stormwater volume control
  - Soils will be analyzed for infiltration properties and the possibility of bioinfiltration cells or underground detention will be investigated for stormwater volume control.
- Restrict potable water for permanent irrigation
  - No irrigation is proposed on the project.

Framework for Design Excellence Measure 5: Designing for Economy

- Register and participate in Focus on Energy Program
  - Focus On Energy will be engaged during preliminary design (next phase of the project). Our engineers will work in collaboration with FOE and the design assist program from the inception of the systems design.
- Use modeling to estimate savings and greenhouse gas emissions
  - Energy modeling using the HAP by Carrier energy modeling program will be performed during preliminary design to ensure energy savings and reductions in greenhouse gas emissions. ASHRAE 90.1-2016 will be the energy standard for measuring the energy modeling.
- Right sized program
  - During the extensive programming process, we evaluated the program to curricula and department needs and standards. Parallels were drawn between other classroom and office buildings on campus. In addition, the core team evaluated, prioritized and right-sized the high demand spaces to minimize the extent of vacated spaces during normal operating hours. In example, lecture halls along the west wing that were previously used on occasion will be converted to a new student hub and technology lab, both of which will see a high utilization rate based on their current and future demand.

Framework for Design Excellence Measure 6: Designing for Energy

- The design will meet or exceed the requirements of ANSI/ ASHRAE/IESNA Standard 90.1-2016 and the compliance pathways
- Window to Wall Ratio
  - The design was conscious of the window to wall ratio to ensure thermal efficiency, while allowing for increased opportunities to draw in natural light. Areas of high glazing were designated to selective areas high traffic/ high use areas where the benefits of natural light would be most advantageous. The proposed window to wall ratios for Winther Hall are:
    - North- 28% (Guidelines allow up to 40%)
    - South- 16% (Guidelines allow up to 30%)
    - East- 10% (Guidelines allow up to 30%)
    - West- 16% (Guidelines allow up to 30%)
- Energy Modeling
  - As noted in measure 5, HAP energy modeling will be completed to evaluate the MEP systems, materials and fenestration in a life cycle analysis. The EUI chart as listed in the guidelines for a climate 5A zone will be followed to minimize energy consumption. 60/65 will be the maximum for EUI for a majority of spaces, meeting / exceeding the classroom / office standard.

- Chlorofluorocarbon (CFC) based refrigerants
  - The CFC's will not be used in new heating, ventilation, air-conditioning and refrigeration systems. All HVAC systems are being replaced as part of this project and no CFC based refrigerants will remain. In addition, all new mechanical cooling will be served by the campus chilled water system.
- Building-level energy meters
  - The intent will be to reuse existing meters or provide new as required to track energy usage at one-month intervals for electricity, natural gas, chilled water and steam. The building currently has the capacity to meter these systems on a monthly basis.
- CxA - Monthly utility data verification
  - Somerville will be the commissioning agent and will track monthly utility data for the first 12 months, providing six- and 12-month reports to compare to design targets established during preliminary and final design by the design team.
- On-site renewable energy
  - During preliminary design, we will further explore the opportunity to meet the 1% on-site renewable energy requirement. At this time, we feel that Photovoltaic (PV) solar panels will be the most applicable source of renewable energy.
- Solar-ready project
  - We have identified the areas on the roof plan located in the appendix of this report that could be designated as solar ready applications. This includes portions of the classroom wing, the southern portion of the office tower and a good portion of the lecture hall wing. Additionally, wall space within the electrical room on the first floor will be designated for future PV inverters and space will be allocated in the main electrical panels.
- Building air tightness
  - Somerville will be working in coordination with a consultant (Building Envelope Professionals Group, LLC) throughout design and construction to ensure the wall and roof assemblies are airtight and devoid of moisture issues. WUFI analysis will be conducted to determine the best method for insulating the existing exterior walls and roofing.
- On-site battery storage
  - Battery storage can be discussed during preliminary design; however, the current intent is to re-use the existing on-site natural gas generator that was installed in 2013 and has significant remaining useful life left.

Framework for Design Excellence Measure 7: Designing for Wellness

- Smoke-Free Environment
  - The UW-Whitewater campus is already a smoke-free and vape-free campus.
- Biophilia
  - The A/E and MEP design team will hold a meeting during preliminary design with the DFD PM, UWS representative and UWW stakeholders to discuss how biophilia can be integrated into the design.
- Daylight
  - The new design will provide a balanced approach to increasing access to and the extent of glazing when compared to the existing wall to window ratio, while maintaining a large extent of the existing building skin. As noted earlier, areas of high glazing will be reserved to high-use / high-traffic areas. In addition, the use of interior glazing between spaces will look to maximize the extent in which light penetrates deep into the building interior.
- Encouraged Measures (Acoustics)
  - The design will incorporate measures to reduce sound transmission and reverberation. This will be especially important for areas where teleconferencing is incorporated. The combination of high NRC acoustical ceilings, insulated walls, soft furnishings and carpeting will assist in accomplishing this standard.

Framework for Design Excellence Measure 8: Designing for Resources

- Exotic hardwood prohibition
  - The project will not use exotic hardwoods and wood will likely be limited to interior use. We anticipate at this time that the species of wood used would likely be a plain sliced maple that is locally sourced.
- Life cycle assessment tracks embodied carbon
  - A life cycle assessment will be conducted to track the embodied carbon of the new and renovated construction. The benefit of this project is that a majority of the existing structure and exterior envelope will be retained, thereby reducing the impact of high embodied energy that typically accompanies ground up new construction.
- Minimum of 20 products with environmental product declarations
  - Prior to the specification process, at least twenty products will be selected from the EPD database and discussed with the DFD team.
- Encouraged measures:
  - Steel usage
    - United States sourced steel with decreased mass
  - Concrete usage
    - Reduce the amount of Portland cement with SCM content and decreased mass.
  - Insulation
    - Although retrofitting the exteriors will likely require high R-value insulation to minimize wall depth and provide thermal efficiency, interior insulation options with low embodied carbon will be explored.
  - Wood sourcing
    - Plain sliced maple will be locally harvested and milled in Wisconsin.
  - Local and regional priority
    - To the furthest extent possible, products within a 500-mile radius will be specified to reduce embodied energy tied to long transport distances.

Framework for Design Excellence Measure 9: Designing for Change

- Reuse reporting
  - The benefit of this project is that roughly 90% of the project area will be renovation of existing floor space. This will provide significant carbon emissions savings and reduce the timeline of construction.
- Risk assessment
  - Given the robustness of the existing building structure and exterior cladding, the building should provide sufficient support recovery in the event of an emergency. There are several areas on the first floor that are below grade and enclosed in cast-in-place concrete construction. In addition, the existing natural gas generator is sufficiently sized to maintain the life safety systems, including the operation of the new elevators. Design considerations will also address the safety of building occupants in the event of an active shooter scenario by providing multiple exits from spaces where feasible and minimizing the dead-end corridor scenarios that currently exist.
- Resilience
  - With significant grade differences occurring around the building envelope, regrading slopes where possible and additional retaining walls will be implemented to decrease slopes and thus runoff velocity and erosion. Landscape plantings consisting of low-maintenance, drought and salt tolerant, hardy native and adaptive native plant material with deep anchor roots and fibrous shallow roots will assist to stabilize and bind soil. The plantings will deter

pedestrians and minimize erosion impacts during high precipitation rain events while providing aesthetically pleasing buffers between the circulation routes and building façade.

- Encouraged measures:
  - Renewable-Ready
    - As outlined earlier, the roof plan provided in the appendix shows the applicable locations for solar photovoltaic arrays. The roof structures will be further explored to account for the framing and deadweight of (a future or planned for) array(s), along with proper roofing considerations (penetrations, flashing etc.).
  - Interchangeability
    - All of the remodeled spaces and addition will provide the maximum extent of flexibility that is feasible. We understand and fully expect that the curricula and use of the spaces will likely change over the life of the building. To accommodate current and future needs, movable furniture, storage systems and the integration of technology will allow the end users to adapt the spaces to fit their desired use. As an example, the classrooms that are currently modeled in the traditional teaching style with a front and back of the classroom could be transformed to an active learning space with multiple monitors and teleconferencing abilities. A pod style arrangement of furniture would allow students to collaborate in groups of various sizes with the ability to change the layout in minutes without compromising efficiency.

Framework for Design Excellence Measure 10: Designing for Discovery

- CxA to track utilities 6,12, and 18 months
  - As noted in measure 6
- Meeting to discuss lessons learned
  - Within 14 days of substantial completion, a meeting will be held by all applicable parties to discuss lessons learned and provide feedback on the following:
    - DFD specifications and guidelines
    - Identification of effective strategies
    - Identification of areas needing extra effort
- Encourage measures:
  - A pre-occupancy and post-occupancy evaluation will be held to understand how the agency's current facility is performing and how the renovated space has improved or adversely changed the way occupants use the various spaces.
  - Educational tours/ training
    - During the closeout process, meeting(s) will be held to ensure building management, occupants and visitors understand roles and responsibilities for maintaining building performance. This will be intended to be an open dialog between the design team, construction team and end users to not only discuss the design intent and operation of the building, but also ways of integrating lessons learned on future projects.

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Section 5

PRE-DESIGN OPINION OF PROBABLE COST

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Section 5

WINTHER & HEIDE HALLS
PRE-DESIGN OPINION OF PROBABLE COST (OPC)

Item Description	Project Budget (Per Enumeration)		Project Budget (Target)		Project Budget (Per Design)	
Construction		$46,450,000		$37,171,000		$31,860,900 (excludes hazardous materials)
Hazardous Materials		0		$250,000		$400,000
Total Construction		$45,450,000		$37,421,000		$32,260,900
Design Fees (Basic)		$3,923,000		$3,230,000		$2,626,500
Design Fees (Other)		$800,000		$247,000		$827,100
Total Design Fees		$4,723,000		$3,477,000		$3,453,600
Contingency	10.00%	$4,545,000	10.00%	$3,742,000	10.00%	$3,226,090
Management Fees	4.00%	$2,000,000	4.00%	$1,647,000	4.00%	$1,424,258
Furnishings, Fixtures & Equipment	6.00%	$2,727,000	5.91%	$2,213,000	6.00%	$1,924,170
Total Budget Estimate		**$59,445,000**		**$48,500,000**		**$42,289,018**

PRE-DESIGN OPC - WINTHER HALL

		Area	Unit Price	Subtotal
Construction				
New Construction (Additions)	Demolition	2,000 GSF	$12.00 / SF	$24,000
	General Construction	8,942 GSF	$150.00 / SF	$1,341,300
	Fire Protection	8,942 GSF	$4.00 / SF	$35,768
	Plumbing	8,942 GSF	$50.00 / SF	$447,100
	HVAC	8,942 GSF	$47.00 / SF	$420,274
	Electrical	8,942 GSF	$44.00 / SF	$393,448
	New Elevator Equipment & Hoistway	2 EA	$270,000 EA	$540,000
	Total (New Construction)	**8,942 GSF**	**$297.68 / SF**	**$2,661,890**
Renovation	**Demolition**	**79,777 GSF**	**$11.75 / SF**	**$937,380**
	Renovation			
	General Construction	79,777 GSF	$81.00 / SF	$6,461,937
	Fire Protection	79,777 GSF	$4.00 / SF	$319,108
	Plumbing	79,777 GSF	$4.25 / SF	$339,052
	HVAC	79,777 GSF	$47.00 / SF	$3,749,519
	Electrical	79,777 GSF	$29.00 / SF	$2,313,533
	Roofing Replacement	23,500 GSF	$25.00 / SF	$587,500
	Cleaning / Repair of Exterior Materials & Surfaces	1 EA	$100,000 EA	$100,000
	Total (Renovation)	**79,777 GSF**	**$185.62 / SF**	**$14,808,029**
Special Conditions	Hazardous Material Abatement (Winther and Heide)			$400,000
	Steam and Condensate replacement to pit 28			$85,000
	Sitework Grade Modifications at Ground Floor Entries (Winther and Heide)			$1,410,000
Subtotal				**$19,364,919**
General Conditions			12%	$2,323,790
Construction Subtotal				**$21,688,709**

Design Phase Contingency (lower to 5% in Final Design phase)		10%	$2,168,900
Opinion of Probable Construction Cost (2020)	$268.91 / SF		$23,857,609
Opinion of Probable Construction Cost (2022)	$296.48 / SF	5%	$26,303,014

Total Opinion of Probable Construction Cost - Winther Hall	**$26,303,014**
Heide Hall Construction Cost	**$5,957,886**
Grand Total - Winther and Heide Halls Opinion of Probable Construction Cost	**$32,260,900**

PRE-DESIGN OPC - HEIDE HALL

		Area	Unit Price	Subtotal
Construction				
New Construction (Additions)	Demolition	3,000 GSF	$5 / SF	$15,000
	General Construction	7,860 GSF	$254 / SF	$1,996,440
	Fire Protection	7,860 GSF	$7 / SF	$55,020
	Plumbing	7,860 GSF	$50 / SF	$393,000
	HVAC	7,860 GSF	$46 / SF	$361,560
	Electrical	7,860 GSF	$45 / SF	$353,700
	Electrical Service and Equipment			$300,000
	New Elevator Equipment & Hoistway	2 EA	$230,000 EA	$460,000
	Total (New Construction)	**7,860 GSF**	**$403.91 / SF**	**$3,174,720**
Renovation	**Demolition**	**1,950 GSF**	**$12.00 / SF**	**$23,400**
	Renovation			
	General Construction	1,950 GSF	$225 / SF	$438,750
	Plumbing	1,950 GSF	$6 / SF	$11,700
	HVAC	1,950 GSF	$35 / SF	$68,250
	Electrical	1,950 GSF	$30 / SF	$58,500
	Roofing Replacement	26,000 GSF	$21 / SF	$546,000
	Cleaning / Repair of Exterior Materials & Surfaces	1 EA	$65,000 EA	$65,000
	Total (Renovation)	**1,950 GSF**	**$621 / SF**	**$1,211,600**
Subtotal				**$4,386,320**
General Conditions			12%	$526,358
Construction Subtotal				**$4,912,678**

Design Phase Contingency (lower to 5% in Final Design phase)		10%	$491,300
Opinion of Probable Construction Cost (2020)	$550.86		$5,403,978
Opinion of Probable Construction Cost (2022)	$607.33	5%	$5,957,886

Total Opinion of Probable Construction Cost - Heide Hall	**$5,957,886**
Winther Hall Construction Cost	**$26,303,014**
Grand Total	**$32,260,900**

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Section 6

SCHEDULE

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Section 6

SCHEDULE FOR WINTHER & HEIDE HALLS

The following is an estimated timetable through the remainder of design and construction.

Major Milestone / Task	Estimated # of Weeks Between Tasks	Estimated Completion Date
Pre-Design Report (Draft)		12/22/20
Pre-Design Report Review Comments		02/08/21
Pre-Design Report Final		02/23/21
A/E Receives Contract and Notice to Proceed (Based on Funding Availability)	TBD	05/24/2021
SBC Approval		07/15/2021
Preliminary Design - Design Report, Summary & Appendix	36	02/01/2022
Preliminary Review Comments Due	4	03/01/2022
Preliminary Review Meeting in Madison	2	03/15/2022
BOR / SBC authority to construct	TBD	04/13/2022
Final Design Documents Submittal	18	08/17/2022
Final Review Comments Due	4	09/14/2022
Final Review Meeting in Madison	2	09/28/2022
Reproduction of Documents for Bidding	3	10/19/2022
Bidding	6	10/20/2022 - 12/01/2022
Notice to Proceed		01/22/23
Phase I - Heide Addition	21	02/21/23 - 07/20/23
Phase 2 - Heide Renovation & Vacation of Winther Hall	10	05/23/23 - 08/01/23
Phase 3 - Winther Hall	66	08/01/23 - 11/04/24
Project Closeout and Commissioning	8	01/06/25

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VOLUME 1: WINTHER HALL

Section 7

ROOM DATA SHEETS

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Section 7

ROOM DATA SHEETS - TABLE OF CONTENTS

RDS–TECH LAB RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Reception Area	ROOM NUMBER	1.1
ROOM TYPE	Office	ROOM SIZE (ASF)	443
ROOM USERS	Student Workers	ROOM DIMENSIONS	18-11" x 22'-9"
ADJACENCIES	Technology Lab	HOURS USED	M-F 8am – 5pm
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with sound batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 8'-0" a.f.f.		
DOOR SIZE & MAT'L	(2) 3'-0" Aluminum Doors	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	Yes
FIXED CASEWORK	Reception desk with solid surface counter top		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience receptacles. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer, downlights Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1)	VOIP	AUDIO
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Technology Coordinator Office	ROOM NUMBER	1.2
ROOM TYPE	OFFICE	ROOM SIZE (ASF)	133
ROOM USERS	Technology Coordinator	ROOM DIMENSIONS	10'-0" x 13'-4"
ADJACENCIES	Technology Lab	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board walls with sound batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	NONE		
SPECIAL	System Furniture		
PLUMBING			
SINKS	NONE		
GASES / OTHER	NONE		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	NONE		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1)	VOIP	N/A
DATA (COMPUTER)	(2)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–BROADCAST ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Broadcast Room	ROOM NUMBER	1.3
ROOM TYPE	Broadcast Room	ROOM SIZE (ASF)	128
ROOM USERS	Students and staff	ROOM DIMENSIONS	8'-0" x 16'-0"
ADJACENCIES	Technology Lab	HOURS USED	
FUNCTION	Technology Support Room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board walls with sound batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	TBD		
SPECIAL	TBD		
PLUMBING			
SINKS	NONE		
GASES / OTHER	NONE		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	NONE		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1)	AUDIO	N/A
DATA (COMPUTER)	(2)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	TBD	VIDEO PROJECTOR	N/A
OTHER	TBD		
ACOUSTICS			
DESCRIPTION	TBD	NC RATING	TBD
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–PRODUCTION STREAM ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Production Stream Room	ROOM NUMBER	1.4
ROOM TYPE	Production Stream Room	ROOM SIZE (ASF)	128
ROOM USERS	Students and staff	ROOM DIMENSIONS	8'-0" x 16'-0"
ADJACENCIES	Technology Lab	HOURS USED	
FUNCTION	Technology Support Room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board walls with sound batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	TBD		
SPECIAL	TBD		
PLUMBING			
SINKS	NONE		
GASES / OTHER	NONE		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1)	AUDIO	N/A
DATA (COMPUTER)	(2)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	TBD	NC RATING	TBD
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–TECHNOLOGY LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Technology Lab / Reports Lab	ROOM NUMBER	1.5
ROOM TYPE	Instructional Technology Lab	ROOM SIZE (ASF)	2281
ROOM USERS	Students	ROOM DIMENSIONS	55'-3 x 40'-7"
ADJACENCIES	Broadcast Room, Streaming Room	HOURS USED	As scheduled
FUNCTION	Technology Lab for student use		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	Open Lab	DOOR VISION PANEL	N/A
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system via area well	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	TBD		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	Furniture	DIM. BETWEEN TABLE	
SEATING, TYPE & NO.	Various types of furniture needed		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8')		
TACKBOARDS	1 per room (4')		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL	N/A		
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	TBD		
FLR VOICE, DATA,VID,MIC	TBD		
WALL	Convenience outlets, computer stations, VR Stations		
WALL VCE,DATA,VID,MIC	As needed for equipment		
INSTRUCT CONSOLE	TBD		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer, downlights		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		

CTRTOP OF INST CONS.	TBD		
INSTRUCT CONSOLE	TBD		
INSTRUCT ALT POS	TBD		
CHALKBD, WHITEBD	TBD		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	TBD		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	PORTABLE (Y/N)	N/A
PA SYSTEM	N/A	PORTABLE (Y/N)	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	KEYPD/PROX CD/REX	TBD
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	TBD		
INTEGRATION REQ'T	TBD		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS			
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	LUMENS	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT			
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN			
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	TBD	NC RATING	TBD
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Technology Lab Storage	ROOM NUMBER	1.6
ROOM TYPE	Storage	ROOM SIZE (ASF)	601
ROOM USERS	Technology Staff and Students	ROOM DIMENSIONS	22'-10" x 26'-4"
ADJACENCIES	Technology Lab	HOURS USED	24/7
FUNCTION	Storage for Technology Lab		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Tile w/ Vinyl base		
WALLS & STC	Painted existing concrete / CMU		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	No	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	1'-6" deep plastic laminate shelving		
SPECIAL	TBD		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–STUDENT ORG CONFERENCE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Conference	ROOM NUMBER	1.7
ROOM TYPE	Conference Room	ROOM SIZE (ASF)	286
ROOM USERS	Student Organizations	ROOM DIMENSIONS	23'-6" x13'-2"
ADJACENCIES	Student Org workroom	HOURS USED	24/7
FUNCTION	Meeting room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)	AUDIO	N/A
DATA (COMPUTER)	As required for Monitor	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	TBD	VIDEO PROJECTOR	TBD
OTHER	A/V needs are anticipated in this room - further discussion will take place with user during next phase of design.		
ACOUSTICS			
DESCRIPTION	TBD	NC RATING	TBD
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–STUDENT ORG WORKROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Org	ROOM NUMBER	1.8
ROOM TYPE	Workroom	ROOM SIZE (ASF)	760
ROOM USERS	Students	ROOM DIMENSIONS	23'-6" x 33'-10"
ADJACENCIES	Public Corridor, Conference Room	HOURS USED	24/7
FUNCTION	Student organizations work space, meeting room, storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	Plastic laminate lockable tall storage units for multiple student organizations, upper lower cabinets for general storage.		
SPECIAL	Tables and chairs for group activity		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–RESEARCH ROOMS			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Research	ROOM NUMBER	1.9
ROOM TYPE	Small Research Room	ROOM SIZE (ASF)	84
ROOM USERS	Students	ROOM DIMENSIONS	8'-9 ½" x 9'-7"
ADJACENCIES	Student support space	HOURS USED	24/7
FUNCTION	Student		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–SMALL CLASSROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Classroom	ROOM NUMBER	1.10
ROOM TYPE	General Study Classroom	ROOM SIZE (ASF)	600 +/-
ROOM USERS	Students	ROOM DIMENSIONS	25'-10" x 23'-6"
ADJACENCIES	Student collaboration space / corridor seating	HOURS USED	As scheduled
FUNCTION	Classroom instruction		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic Laminate Tall Storage Cabinets (w/ locks)		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	
SEATING, TYPE & NO.	Type of furniture per room TBD tablet arm chairs, nesting tables, or lab tables		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8')		
TACKBOARDS	1 per room (4')		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL	N/A		
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	TBD		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	TBD		
CTRTOP OF INST CONS.	TBD		

INSTRUCT CONSOLE	TBD		
INSTRUCT ALT POS	TBD		
CHALKBD, WHITEBD	TBD		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	TBD		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	TBD		
INTEGRATION REQ'T	TBD		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS			
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	TBD
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT			
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN			
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	TBD	**NC RATING**	TBD
MOVABLE EQMT			
TYPE & SIZE	STUDENT DESKS / TABLES, TEACHERS STATION	**CONNECTIONS REQ'D**	
REMARKS			

RDS–HEALTH			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Health	ROOM NUMBER	1.11
ROOM TYPE	General Use	ROOM SIZE (ASF)	82
ROOM USERS	Students, faculty and visitors	ROOM DIMENSIONS	9'-8" x 8'-6"
ADJACENCIES	Toilet Room, Public Corridor	HOURS USED	24/7
FUNCTION	Lactation room, personal health		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Plastic laminate upper and lower casework		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	None	KEYPD/PROX CD/REX	None
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS– RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Advising Reception Area	ROOM NUMBER	2.1
ROOM TYPE		ROOM SIZE (ASF)	312
ROOM USERS	Student workers	ROOM DIMENSIONS	16'-10" x 18'-8"
ADJACENCIES	Student advising, main entry	HOURS USED	
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f., gypsum soffit to define space		
DOOR SIZE & MAT'L	(2) 3'-0" Aluminum Doors	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Borrowed lite	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	Reception desk with solid surface counter top, back counter with storage		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets, Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1)	VOIP	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–CONFERENCE ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Advising Conference	ROOM NUMBER	2.2
ROOM TYPE	Conference Room	ROOM SIZE (ASF)	237
ROOM USERS	Staff	ROOM DIMENSIONS	13'-10" x 11'-9"
ADJACENCIES	Student Advising Offices, Field Experience	HOURS USED	M-F 8am – 5pm
FUNCTION	Meeting space for staff and visitors		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49 STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate uppers and lower cabinets for storage		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets each wall, power above counter		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Power for copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	As required for copier/printer	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	None	KEYPD/PROX CD/REX	None
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	TBD	VIDEO PROJECTOR	TBD
OTHER	A/V needs are anticipated in this room - further discussion will take place with user during next phase of design.		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Advising Office	ROOM NUMBER	2.3
ROOM TYPE	Office	ROOM SIZE (ASF)	118
ROOM USERS	Faculty	ROOM DIMENSIONS	10'-0" x 11'-9"
ADJACENCIES	Main Entrance	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Advising Graduate Assistants Office	ROOM NUMBER	3.13
ROOM TYPE	Office	ROOM SIZE (ASF)	163
ROOM USERS	Faculty	ROOM DIMENSIONS	13'-10" x 11'-9"
ADJACENCIES	Student Advising Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORKROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Advising Workroom	ROOM NUMBER	2.5
ROOM TYPE	Workroom	ROOM SIZE (ASF)	163
ROOM USERS	Student Advising and Field Experience staff	ROOM DIMENSIONS	13'-10" x 11'-9"
ADJACENCIES	Student Advising Offices, Field Experience	HOURS USED	M-F 8am – 5pm
FUNCTION	Work space for staff		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate upper and lower cabinets for storage		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets each wall, power above counter		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	As required for copier/printer	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	None	KEYPD/PROX CD/REX	None
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Field Experience Office	ROOM NUMBER	2.6
ROOM TYPE	Office	ROOM SIZE (ASF)	118
ROOM USERS	Faculty	ROOM DIMENSIONS	10'-0" x 11'-9"
ADJACENCIES	Advising Coordinator	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS– RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Clinic Reception Area	ROOM NUMBER	2.7
ROOM TYPE		ROOM SIZE (ASF)	376
ROOM USERS	Student workers	ROOM DIMENSIONS	22’-4” x 21’-2”
ADJACENCIES	Counseling and Communication Sciences & Disorders Clinic, entry level	HOURS USED	
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT’L & HT	Acoustic Ceiling 8’-0” a.f.f., gypsum soffit to define space		
DOOR SIZE & MAT’L	3’-0” Aluminum Doors	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	Reception desk with solid surface		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets, Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ’T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ’D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Clinic Supervisor Office	ROOM NUMBER	2.8
ROOM TYPE	Office	ROOM SIZE (ASF)	118
ROOM USERS	Faculty	ROOM DIMENSIONS	10'-0" x 11'-9"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–AUDIOLOGY LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences and Disorders Audiology Lab	ROOM NUMBER	2.9
ROOM TYPE	Testing Lab	ROOM SIZE (ASF)	161
ROOM USERS	Staff and patients	ROOM DIMENSIONS	10'-0" x 16'-1"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	
FUNCTION	Audiology testing room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK			
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)		SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS		VIDEO PROJECTOR	N/A
OTHER			
ACOUSTICS			
DESCRIPTION		NC RATING	
MOVABLE EQMT			
TYPE & SIZE		CONNECTIONS REQ'D	
REMARKS			

RDS–LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Child Language Lab	ROOM NUMBER	2.10
ROOM TYPE	Office	ROOM SIZE (ASF)	243
ROOM USERS	Faculty, Students, Visitors	ROOM DIMENSIONS	11'-9" x 20'-8"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	
FUNCTION	Child Language Lab for 6 children		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed aluminum storefront system	DAYLIGHT CONTROL	Interior blinds
FIXED CASEWORK	N/A		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION		NC RATING	
MOVABLE EQMT			
TYPE & SIZE		CONNECTIONS REQ'D	
REMARKS			

RDS–THERAPY			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences and Disorders Therapy Room	ROOM NUMBER	2.11
ROOM TYPE		ROOM SIZE (ASF)	112
ROOM USERS	Staff, patients	ROOM DIMENSIONS	9'-6" x 11'-9"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	M-F 8:00am – 5:00pm
FUNCTION	Patient therapy room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed aluminum storefront system	DAYLIGHT CONTROL	BLINDS
FIXED CASEWORK	Plastic laminate work station		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Storage	ROOM NUMBER	2.12
ROOM TYPE	Storage	ROOM SIZE (ASF)	61
ROOM USERS	Faculty	ROOM DIMENSIONS	6'-0" x 10'-1"
ADJACENCIES	Clinic and counseling area	HOURS USED	24/7
FUNCTION	Storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves each side of room		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER			
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	None	KEYPD/PROX CD/REX	None
INTRUSION DETECTION	None		
VIDEO SURVEILLANCE	None	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–SIMULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences and Disorders Simulation Room	ROOM NUMBER	2.13
ROOM TYPE	Simulation Room	ROOM SIZE (ASF)	141
ROOM USERS	Staff, students	ROOM DIMENSIONS	10'-1" x 14'-1"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	M-F 8:00am – 5:00pm
FUNCTION	Patient simulation room with medical mannequins		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Plastic laminate with tall storage		
SPECIAL	TBD		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)		SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–TELEHEALTH			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences and Disorders Telehealth Room	ROOM NUMBER	2.14
ROOM TYPE	Telehealth Room	ROOM SIZE (ASF)	116
ROOM USERS	Staff	ROOM DIMENSIONS	11'-7" x 10'-1"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	
FUNCTION	Telephone communication with Clinic patients		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	N/A		
SPECIAL	TBD		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)	As required for monitor	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–TOILET ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	All Gender Toilet Room	ROOM NUMBER	2.15
ROOM TYPE	Toilet Room	ROOM SIZE (ASF)	87
ROOM USERS	Students, faculty, visitors	ROOM DIMENSIONS	8'-4" x 11'-4"
ADJACENCIES	Clinic	HOURS USED	24/7
FUNCTION	Toilet room for any student, staff or visitor		
ARCHITECTURAL			
FLOORS & BASE MTL	Porcelain tile with tile base		
WALLS & STC	Stud Walls with porcelain tile full height minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	TBD		
SPECIAL	Space for changing table		
PLUMBING			
SINKS	Wall mounted lav		
TOILET	ADA wall hung with manual flush valve		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	75 CFM Exhaust per fixture		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Observation Room	ROOM NUMBER	2.16
ROOM TYPE	Observation Room	ROOM SIZE (ASF)	110
ROOM USERS	Staff	ROOM DIMENSIONS	9'-7" x 11'-4"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	M-F 8:00am – 5:00pm
FUNCTION	Observe clinic activity		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Narrow lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	N/A		
SPECIAL	TBD		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	YES
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	As required for observation monitor	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORKROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Grad Student Workroom	ROOM NUMBER	2.17
ROOM TYPE	Workroom	ROOM SIZE (ASF)	321
ROOM USERS	Graduate Students	ROOM DIMENSIONS	14'-9" x 21'-10"
ADJACENCIES	Communication Sciences and Disorders Clinic	HOURS USED	
FUNCTION	Workroom lounge space for graduate students		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Plastic laminate kitchenette		
SPECIAL	Storage lockers for approx. 28 grad students to secure personal items		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Refrigerator, microwave		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	Shared workstations for Grad Students	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Department Chair Office	ROOM NUMBER	2.18
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	194
ROOM USERS	Faculty	ROOM DIMENSIONS	17'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	YES
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences & Disorders Department Adjunct Office	ROOM NUMBER	2.19
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	186
ROOM USERS	Adjunct faculty – shared by multiple users	ROOM DIMENSIONS	8'-6" X 16'-11"
ADJACENCIES	Communication Sciences and Disorders Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office used by multiple adjunct faculty.		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	N/A		
SPECIAL	System Furniture shared by multiple users		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	YES
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Communication Sciences and Disorders Faculty Office	ROOM NUMBER	2.20
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	95
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Counseling Office	ROOM NUMBER	2.21
ROOM TYPE	Office	ROOM SIZE (ASF)	112
ROOM USERS	Counselor	ROOM DIMENSIONS	9'-7" x 11'-8"
ADJACENCIES	Clinic space, main entry level	HOURS USED	M-F 8am – 5pm
FUNCTION	Meeting space for counselor and patient		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	YES
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORKROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Counseling Workroom	ROOM NUMBER	2.22
ROOM TYPE	Workroom	ROOM SIZE (ASF)	334
ROOM USERS	Graduate Students	ROOM DIMENSIONS	23'-10" x 16'-4"
ADJACENCIES	Counseling	HOURS USED	
FUNCTION	Workroom Counseling department		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	Tall storage units		
SPECIAL	Staff workstations		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	TBD	AUDIO	N/A
DATA (COMPUTER)	TBD	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Storage	ROOM NUMBER	2.23
ROOM TYPE	Storage	ROOM SIZE (ASF)	40, and 75
ROOM USERS	Faculty	ROOM DIMENSIONS	Varies
ADJACENCIES	Clinic and counseling area	HOURS USED	24/7
FUNCTION	Storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves each side of room		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	NONE		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	None	KEYPD/PROX CD/REX	NONE
INTRUSION DETECTION	None		
VIDEO SURVEILLANCE	None	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Counseling Department Chair Office	ROOM NUMBER	2.24
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	194
ROOM USERS	Faculty	ROOM DIMENSIONS	17'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Counseling Faculty Office	ROOM NUMBER	2.25
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	95
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–KITCHENETTE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Counseling / CSD Faculty Kitchenette	ROOM NUMBER	2.26
ROOM TYPE	Kitchenette	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Food and beverage preparation		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Floor w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel w/ ADA faucet		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Refrigerator, microwave, coffee maker		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORK ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Faculty Work Area	ROOM NUMBER	2.27
ROOM TYPE	Work Room	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Work Area		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP (Printer/Copier)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–FACULTY RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Special Education Faculty Reception	ROOM NUMBER	3.1
ROOM TYPE	Open Office	ROOM SIZE (ASF)	372
ROOM USERS	Student workers	ROOM DIMENSIONS	15'-8" x 16'-8"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ vinyl base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	TBD		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Special Education Department Chair Office	ROOM NUMBER	3.2
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	194
ROOM USERS	Faculty	ROOM DIMENSIONS	17'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Special Education Faculty Office	ROOM NUMBER	3.3
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	95
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–WORK ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Faculty Work Area	ROOM NUMBER	3.4
ROOM TYPE	Work Room	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Work Area for office functions		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP (Printer/Copier)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–KITCHENETTE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Special Education Faculty Kitchenette	ROOM NUMBER	3.5
ROOM TYPE	Kitchenette	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Food and beverage preparation		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Floor w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL			
PLUMBING			
SINKS	Stainless steel w/ ADA faucet		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Refrigerator, microwave, coffee maker		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	LIFE Classroom	ROOM NUMBER	3.6
ROOM TYPE	Classroom	CLASSROOM SIZE (ASF)	1043
ROOM USERS	Students (20-25)	CLASSROOM DIMENSIONS	23'-11" x 43'-10"
ADJACENCIES	N/A	HOURS USED	As scheduled
FUNCTION	Teaching Lab		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Flooring and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic Laminate kitchen setting, Tall Storage cabinets		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	TBD
SEATING, TYPE & NO.	Furniture (tables and chairs)		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8' to 12')		
TACKBOARDS	4' -0" near door		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	2 compartment stainless steel lay-in		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	N/A		
SPECIAL	Oven, microwave, refrigerator, garbage disposal		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		

STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		
INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) at teachers station + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	TBD		
INTEGRATION REQ'T	TBD		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	TBD	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	LIFE Coordinator Office	ROOM NUMBER	3.7
ROOM TYPE	Office	ROOM SIZE (ASF)	130
ROOM USERS	Faculty	ROOM DIMENSIONS	10'-0" x 13'-0"
ADJACENCIES	LIFE Classroom	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	LIFE Office	ROOM NUMBER	3.8
ROOM TYPE	Office	ROOM SIZE (ASF)	130
ROOM USERS	LIFE Teachers	ROOM DIMENSIONS	10'-0" x 13'-0"
ADJACENCIES	LIFE Classroom	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	LIFE Testing	ROOM NUMBER	3.9
ROOM TYPE	Office	ROOM SIZE (ASF)	108
ROOM USERS	LIFE students	ROOM DIMENSIONS	9'-0" x 12'-0"
ADJACENCIES	LIFE Classroom / LIFE Office	HOURS USED	M-F 8am – 5pm
FUNCTION	Testing of students		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Stud Walls with Sound Batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION		NC RATING	
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	CoEPS Reception	ROOM NUMBER	3.10
ROOM TYPE	Reception	ROOM SIZE (ASF)	465
ROOM USERS	Student workers	ROOM DIMENSIONS	22'-8" x 20'-8"
ADJACENCIES	Dean's Suite	HOURS USED	M-F 8am – 5pm
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Plastic laminate reception desk		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Dean's Assistant	ROOM NUMBER	3.11
ROOM TYPE	Office	ROOM SIZE (ASF)	141
ROOM USERS	Assistant to the Dean	ROOM DIMENSIONS	11'-10" x 12'-0"
ADJACENCIES	Dean's Office	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Dean's Office	ROOM NUMBER	3.12
ROOM TYPE	Office	ROOM SIZE (ASF)	214
ROOM USERS	College of Education and Professional Services Dean	ROOM DIMENSIONS	17'-0" x 12'-0"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Assistant Dean's Office	ROOM NUMBER	3.13
ROOM TYPE	Office	ROOM SIZE (ASF)	145
ROOM USERS	Assistant Dean	ROOM DIMENSIONS	11'-10" x 12'-3"
ADJACENCIES	Reception	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Stud Walls with Sound Batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Associate Assistant Dean's Assistant Office	ROOM NUMBER	3.14
ROOM TYPE	Office	ROOM SIZE (ASF)	120
ROOM USERS	Associate Assistant Dean's Assistant	ROOM DIMENSIONS	11'-10" x 10'-0"
ADJACENCIES	Reception	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Associate Dean's Office	ROOM NUMBER	3.15
ROOM TYPE	Office	ROOM SIZE (ASF)	198
ROOM USERS	Associate Dean's	ROOM DIMENSIONS	12'-0" X 16'-6"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Future Office	ROOM NUMBER	3.16
ROOM TYPE	Office	ROOM SIZE (ASF)	126
ROOM USERS	Dean's Suite	ROOM DIMENSIONS	12'-0" X 10'-6"
ADJACENCIES	Reception	HOURS USED	M-F 8am – 5pm
FUNCTION	Office meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORKROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Workroom	ROOM NUMBER	3.17
ROOM TYPE	Workroom	ROOM SIZE (ASF)	164
ROOM USERS	Dean's Suite	ROOM DIMENSIONS	12'-0" X 13'-8"
ADJACENCIES	Reception	HOURS USED	M-F 8am – 5pm
FUNCTION	Workroom		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Plastic laminate upper and lower casework		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)	TBD, copier	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–LARGE CLASSROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Classroom	ROOM NUMBER	3.18
ROOM TYPE	General Study Classroom	CLASSROOM SIZE (ASF)	990+
ROOM USERS	Students	ROOM DIMENSIONS	Varies
ADJACENCIES	Student collaboration space / corridor seating	HOURS USED	As scheduled
FUNCTION	Classroom instruction		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic Laminate Tall Storage Cabinets (w/ locks) if no adjacent storage room		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	TBD
SEATING, TYPE & NO.	Type of furniture per room TBD tablet arm chairs, nesting tables, or lab tables		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8' to 12')		
TACKBOARDS	2 per room (4')		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	Quad outlet		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		

INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	TBD
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A		
INTEGRATION REQ'T	N/A		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Classroom Storage	ROOM NUMBER	3.19
ROOM TYPE	Storage	ROOM SIZE (ASF)	206
ROOM USERS	Faculty	ROOM DIMENSIONS	25'-9" x 8'-0"
ADJACENCIES	Classroom	HOURS USED	24/7
FUNCTION	Storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Stud Walls with Sound Batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves each side of room		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience outlet on each wall		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WELLNESS			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Wellness	ROOM NUMBER	3.20
ROOM TYPE	General use	ROOM SIZE (ASF)	143
ROOM USERS	Students, faculty and visitors	ROOM DIMENSIONS	9'-6" x 15'-0"
ADJACENCIES	Public Corridor	HOURS USED	
FUNCTION	Personal health		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior blinds
FIXED CASEWORK	TBD		
SPECIAL	TBD		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–FACULTY RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Curriculum and Instruction Faculty Reception	ROOM NUMBER	4.1
ROOM TYPE	Open Office	ROOM SIZE (ASF)	372
ROOM USERS	Student workers	ROOM DIMENSIONS	15'-8" x 16'-8"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ vinyl base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	TBD	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	TBD		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Curriculum and Instruction Department Chair Office	ROOM NUMBER	4.2
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	194
ROOM USERS	Faculty	ROOM DIMENSIONS	17'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	TBD		
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS- CONFERENCE ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Curriculum and Instruction Faculty Conference Room	ROOM NUMBER	4.3
ROOM TYPE	Conference Room	ROOM SIZE (ASF)	193
ROOM USERS	Faculty	ROOM DIMENSIONS	17'-7" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Meeting Room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets all walls		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	TBD	VIDEO PROJECTOR	TBD
OTHER	A/V needs are anticipated in this room - further discussion will take place with user during next phase of design.		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Curriculum and Instruction Faculty Office	ROOM NUMBER	4.4
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	95
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	FIXED STOREFRONT SYSTEM	DAYLIGHT CONTROL	INTERIOR BLINDS
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–KITCHENETTE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Curriculum and Instruction Faculty Kitchenette	ROOM NUMBER	4.5
ROOM TYPE	Kitchenette	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Food and beverage preparation		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Floor w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel w/ ADA faucet		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Refrigerator, microwave, coffee maker		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORK ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Faculty Work Area	ROOM NUMBER	4.6
ROOM TYPE	Work Room	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Work Area for office functions		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP (Printer/Copier)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Lab Classroom	ROOM NUMBER	4.7
ROOM TYPE	Classroom	CLASSROOM SIZE (ASF)	1167
ROOM USERS	Students (32 max.)	ROOM DIMENSIONS	24’-2”” x 47’-0”
ADJACENCIES	Early Childhood Lab Storage	HOURS USED	As scheduled
FUNCTION	Teaching Lab		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Flooring and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT’L & HT	Acoustic Ceiling 9’-0” a.f.f.		
DOOR SIZE & MAT’L	3’-0” Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Furniture		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	TBD
SEATING, TYPE & NO.	Furniture (tables and chairs)		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8’ to 12’)		
TACKBOARDS	4’ -0” near door		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVCES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	Quad Receptacle		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		

INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) at teachers station + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	TBD
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	TBD		
INTEGRATION REQ'T	TBD		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Early Childhood Lab Storage	ROOM NUMBER	4.8
ROOM TYPE	Storage	ROOM SIZE (ASF)	162
ROOM USERS	Early Childhood students and faculty	ROOM DIMENSIONS	10'-0" x 16'-2"
ADJACENCIES	Large Classroom	HOURS USED	24/7
FUNCTION	Storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	TBD		
ELECTRICAL			
POWER	Convenience outlet on each wall		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–ART LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Art Lab Classroom	ROOM NUMBER	4.9
ROOM TYPE	Classroom	CLASSROOM SIZE (ASF)	1222
ROOM USERS	Students (36 max.)	ROOM DIMENSIONS	25'-0" x 47'-0"
ADJACENCIES	Art Storage	HOURS USED	As scheduled
FUNCTION	Teaching Lab for students learning to teach Art		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Flooring and Vinyl Base		
WALLS & STC	Painted gypsum board with sound batts		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate at sink location		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	N/A	DIM. BETWEEN TABLE	N/A
SEATING, TYPE & NO.	Furniture (tables and chairs)		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8' to 12')		
TACKBOARDS	4' -0" near door		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	Quad receptacle		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		

INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) at teachers station + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	N/A	**KEYPD/PROX.CD/REX**	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A		
INTEGRATION REQ'T	N/A		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Art Lab Storage	ROOM NUMBER	4.10
ROOM TYPE	Storage	ROOM SIZE (ASF)	166
ROOM USERS	Art students and faculty	ROOM DIMENSIONS	10'-0" x 16'-6"
ADJACENCIES	Art Lab	HOURS USED	24/7
FUNCTION	Storage of materials for Art Lab		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	TBD		
ELECTRICAL			
POWER	Convenience outlet on each wall		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–LAB			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Science Lab Classroom	ROOM NUMBER	4.11
ROOM TYPE	Science Classroom	CLASSROOM SIZE (ASF)	1163
ROOM USERS	Students (32 max.)	ROOM DIMENSIONS	24'-2" x 46'-10"
ADJACENCIES	Science Lab Storage	HOURS USED	As scheduled
FUNCTION	Teaching Lab for student learning to teach Science		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Flooring and Vinyl Base		
WALLS & STC	Painted gypsum board with sound batts		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Wood Casework with Epoxy Resin Countertops		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	TBD
SEATING, TYPE & NO.	Wood Lab tables with epoxy resin tops		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8' to 12')		
TACKBOARDS	4' -0" near door		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	Quad at teachers station		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		

INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) at teachers station + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A		
INTEGRATION REQ'T	N/A		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Science Storage	ROOM NUMBER	4.12
ROOM TYPE	Storage	ROOM SIZE (ASF)	331
ROOM USERS	Science students and Faculty	ROOM DIMENSIONS	10'-0" x 33'-1"
ADJACENCIES	Science Classroom	HOURS USED	24/7
FUNCTION	Storage for Science Lab		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Stud Walls with Sound Batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2)	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	None	DAYLIGHT CONTROL	None
FIXED CASEWORK	Tall storage cabinets, upper/lower cabinets, (6) 1'-6" deep plastic laminate shelves		
SPECIAL	N/A		
PLUMBING			
SINKS	Epoxy resin		
GASES / OTHER	TBD		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	TBD		
ELECTRICAL			
POWER	Convenience outlet on each wall		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–LARGE CLASSROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Classroom	ROOM NUMBER	4.13
ROOM TYPE	General Study Classroom	CLASSROOM SIZE (ASF)	990+
ROOM USERS	Students	ROOM DIMENSIONS	Varies
ADJACENCIES	Student collaboration space / corridor seating	HOURS USED	As scheduled
FUNCTION	Classroom instruction		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile and Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door (2) Exits	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic Laminate Tall Storage Cabinets (w/ locks) if no adjacent storage room		
INSTR. CONSOLE	Furniture		
A/V STORAGE	TBD		
STUDENT TABLES	TBD	DIM. BETWEEN TABLE	TBD
SEATING, TYPE & NO.	Type of furniture per room TBD tablet arm chairs, nesting tables, or lab tables		
CHALKBD OR WHITEBD	Whiteboard minimum 2 per room (8' to 12')		
TACKBOARDS	2 per room (4')		
FIRE SUPPRESSION			
SUPPRESSION SYS	Fully Sprinklered		
FIRE EXTINGUISHER	N/A		
PLUMBING			
SINKS	N/A		
PIPED SERVICES	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
SPECIAL			
ACOUSTICAL CONTROL	Design HVAC to not exceed NC 35 noise level		
ELECTRICAL			
POWER			
FLOOR POWER	N/A		
FLR VOICE, DATA,VID,MIC	N/A		
WALL	Convenience outlets and quad at teachers station, duplex at monitors		
WALL VCE,DATA,VID,MIC	Teachers station and monitor locations		
INSTRUCT CONSOLE	Quad at teachers station		
LIGHTING			
HOUSE,GENERAL	LED recessed troffer.		
HOUSE, FRONT	Zoned control		
STAGE, INSTRUCTOR	N/A		
CTRTOP OF INST CONS.	N/A		

INSTRUCT CONSOLE	N/A		
INSTRUCT ALT POS	N/A		
CHALKBD, WHITEBD	N/A		
LIGHTING CONTROLS	Local Controls with motion sensor		
DIMMING	Dimmable		
SCENES NEEDED	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	VOIP (1)		
DATA (COMPUTER)	UTP (2) at teachers station + at monitor locations		
VIDEO	N/A		
CABLE TV	N/A		
CAMPUS CLOSE CIR.TV	N/A		
SOUND SYSTEM	Coordinate with monitors	**PORTABLE (Y/N)**	N/A
PA SYSTEM	N/A	**PORTABLE (Y/N)**	N/A
INTERCOM	N/A		
ASSISTED LISTENING	TBD		
CLOCK	Battery operated atomic		
SECURITY			
DOOR CONTROL	TBD	**KEYPD/PROX.CD/REX**	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A		
INTEGRATION REQ'T	N/A		
AUDIO/VISUAL			
SPEAKER SYS – VOICE	TBD		
SPEAKER SYS – PROG	TBD		
INTEGRATED SOUND SYS	TBD		
ASST LISTENING SYS	TBD		
VIDEO/ DATA PROJECTOR	Flat panel monitor	**LUMENS**	
MAC/PC AT INSTR CON	TBD		
A/V TOUCH CONT PANEL	TBD		
LIGHT DIMMING PANEL	TBD		
A/V EQUIPMENT	TBD		
DOC CAMERA	TBD		
OVERHD PROJECTOR	TBD		
PROJECTION SCREEN	TBD		
TYPE/SIZE/NO.	TBD		
SCREEN CONTROLS	TBD		
ACOUSTICS			
DESCRIPTION	N/A	**NC RATING**	N/A
MOVABLE EQMT			
TYPE & SIZE	Student desks / tables, teachers station	**CONNECTIONS REQ'D**	
REMARKS			

RDS–STORAGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Literacy / Math Lab Storage	ROOM NUMBER	4.14
ROOM TYPE	Storage	ROOM SIZE (ASF)	336
ROOM USERS	Faculty	ROOM DIMENSIONS	19'-7" x 17'-2"
ADJACENCIES	Classroom	HOURS USED	24/7
FUNCTION	Storage		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	(6) 1'-6" deep plastic laminate shelves each side of room		
SPECIAL			
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	62°F +/- 2°F Unoccupied, No Humidification		
COOLING	NONE		
VENTILATION	NONE		
ELECTRICAL			
POWER	Convenience outlet on each wall		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–HUDDLE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Huddle	ROOM NUMBER	4.15
ROOM TYPE	Meeting	ROOM SIZE (ASF)	Varies
ROOM USERS	Students and faculty	ROOM DIMENSIONS	Varies
ADJACENCIES	Faculty offices	HOURS USED	24/7
FUNCTION	Faculty staff and student meeting area		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–FACULTY RECEPTION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Education Foundation Faculty Reception	ROOM NUMBER	6.1
ROOM TYPE	Open Office	ROOM SIZE (ASF)	372
ROOM USERS	Student workers	ROOM DIMENSIONS	15'-8" x 16'-8"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Administrative		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ vinyl base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Borrowed Lite	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	TBD		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Education Foundation Department Chair Office	ROOM NUMBER	6.2
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	194
ROOM USERS	Department Chair	ROOM DIMENSIONS	17'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS- CONFERENCE ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Conference Room	ROOM NUMBER	6.3
ROOM TYPE	Conference Room	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Meeting Room		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Stud Walls with Sound Batts STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets all walls		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	TBD	AUDIO	N/A
DATA (COMPUTER)	TBD	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	TBD	VIDEO PROJECTOR	TBD
OTHER	A/V needs are anticipated in this room - further discussion will take place with user during next phase of design.		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–OFFICE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Education Foundation Faculty Office	ROOM NUMBER	6.4
ROOM TYPE	Faculty Office	ROOM SIZE (ASF)	95
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	N/A	HOURS USED	M-F 8am – 5pm
FUNCTION	Office		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	N/A		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Typical Office layout. Power on each wall with quad for desk.		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
COMMUNICATIONS			
VOICE (TELEPHONE)	(1) VOIP	AUDIO	N/A
DATA (COMPUTER)	(2) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–KITCHENETTE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Education Foundation faculty Kitchenette	ROOM NUMBER	6.5
ROOM TYPE	Kitchenette	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Food and beverage preparation		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient Floor w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL			
PLUMBING			
SINKS	Stainless steel w/ ADA faucet		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Refrigerator, microwave, coffee maker		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–WORK ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Faculty Work Area	ROOM NUMBER	6.6
ROOM TYPE	Work Room	ROOM SIZE (ASF)	98
ROOM USERS	Faculty	ROOM DIMENSIONS	8'-6" X 10'-11"
ADJACENCIES	Faculty Offices	HOURS USED	M-F 8am – 5pm
FUNCTION	Work area for office functions		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	N/A		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Interior Blinds
FIXED CASEWORK	Plastic laminate casework with laminate countertop		
SPECIAL	System Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	Copier		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP (Printer/Copier)	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–TOILET ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	All Gender Toilet Room	ROOM NUMBER	7.1
ROOM TYPE	Toilet Room	ROOM SIZE (ASF)	218
ROOM USERS	Students, faculty, visitors	ROOM DIMENSIONS	17’-8” x 24’-9”
ADJACENCIES	N/A	HOURS USED	24/7
FUNCTION	Toilet room for any student, staff or visitor		
ARCHITECTURAL			
FLOORS & BASE MTL	Porcelain tile with tile base		
WALLS & STC	Stud Walls with porcelain tile full height Minimum STC 49		
CEILING MAT’L & HT	Acoustic Ceiling 9’-0” a.f.f.		
DOOR SIZE & MAT’L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Obscure glass
FIXED CASEWORK			
SPECIAL	Grab bars at ADA and ambulatory stalls		
PLUMBING			
SINKS	Multi-station wash basin		
TOILET	ADA wall hung with manual flush valve		
EWC	High-low with bottle filler near toilet rooms		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	75 CFM Exhaust per fixture		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ’T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ’D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Telecommunication Equipment Room	ROOM NUMBER	7.2
ROOM TYPE	Storage	ROOM SIZE (ASF)	80
ROOM USERS	IT Data Personnel	ROOM DIMENSIONS	8'-0" x 10'-0"
ADJACENCIES	Central on floor	HOURS USED	24/7
FUNCTION	Provide IT Service to building floor		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient tile w/ vinyl base		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	none		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
TOILET	N/A		
HVAC			
HEATING	none		
COOLING	80°F +/-2°F, 55% RH Maximum		
VENTILATION	none		
ELECTRICAL			
POWER	Convenience Outlets, power for racks as needed		
LIGHTING	LED strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke detection device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	TBD
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–JANITOR ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Janitor Room	ROOM NUMBER	7.3
ROOM TYPE	Custodial	ROOM SIZE (ASF)	41
ROOM USERS	Custodial Staff	ROOM DIMENSIONS	5'-6" x 7'-6"
ADJACENCIES	All gender toilet room	HOURS USED	M-F 8am – 5pm
FUNCTION	Storage for custodial equipment and supplies		
ARCHITECTURAL			
FLOORS & BASE MTL	Porcelain tile with tile base		
WALLS & STC	Painted gypsum board w/ FRP panel behind mop basin Minimum STC 40		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	None
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	Floor mount mop basin		
GASES / OTHER	N/A		
HVAC			
HEATING	none		
COOLING	none		
VENTILATION	Exhaust as required		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Elevator (2 required)	ROOM NUMBER	7.4
ROOM TYPE		ROOM SIZE (ASF)	
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	
ADJACENCIES	Lobby, Floor Lounge, Stairs	HOURS USED	24/7
FUNCTION	Vertical circulation through building		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile		
WALLS & STC	CMU Shaft – two hour rated		
CEILING MAT'L & HT	TBD		
DOOR SIZE & MAT'L	TBD	DOOR VISION PANEL	NONE
DOOR HARDWARE	N/A		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	Size to accommodate stretcher		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	None		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Power for elevator. GFI Service receptacles		
LIGHTING	LED fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Smoke and heat detectors to meet code		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	Yes	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Elevator Equipment	ROOM NUMBER	7.5
ROOM TYPE		ROOM SIZE (ASF)	
ROOM USERS	Maintenance Personnel	ROOM DIMENSIONS	
ADJACENCIES	Elevator	HOURS USED	24/7
FUNCTION	Equipment and panel room for Elevators		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed Concrete		
WALLS & STC	Painted CMU and Concrete – Two hour rated		
CEILING MAT'L & HT	Exposed structure - painted		
DOOR SIZE & MAT'L	3'-0" Wood door – rated 2 hour	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	None		
COOLING	104°F +/-2°F, 60% RH Maximum		
VENTILATION	Exhaust as required		
ELECTRICAL			
POWER	Power for elevator. GFI Service receptacles		
LIGHTING	LED strip fixture	LTG MOTION SENSOR	No
SPECIAL			
FIRE ALARM/DET.			
	Smoke and heat detectors to meet code		
COMMUNICATIONS			
VOICE (TELEPHONE)	As required for elevators	AUDIO	N/A
DATA (COMPUTER)	As required for elevators	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Electrical Main Service Room	ROOM NUMBER	7.6
ROOM TYPE		ROOM SIZE (ASF)	273
ROOM USERS	Maintenance Personnel	ROOM DIMENSIONS	11'-1" x 24'-8"
ADJACENCIES		HOURS USED	24/7
FUNCTION	Electrical Utility Room		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed Concrete		
WALLS & STC	Painted CMU and Concrete		
CEILING MAT'L & HT	Exposed structure - painted		
DOOR SIZE & MAT'L	(2) 3'-0" wood door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	None		
COOLING	104°F +/-2°F, 60% RH Maximum		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience outlets on each wall, power for dedicated equipment.		
LIGHTING	LED strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke detectors		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Electrical Distribution Room	ROOM NUMBER	7.7
ROOM TYPE		ROOM SIZE (ASF)	290
ROOM USERS	Maintenance Personnel	ROOM DIMENSIONS	11'-9" x 24'-8"
ADJACENCIES		HOURS USED	24/7
FUNCTION	Provide Electrical distribution panels to serve Building		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed Concrete		
WALLS & STC	Painted CMU and Concrete – Two Hour Rated		
CEILING MAT'L & HT	Exposed structure - painted		
DOOR SIZE & MAT'L	(2) 3'-0" wood door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	None		
COOLING	104°F +/-2°F, 60% RH Maximum		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience outlets on each wall, power for dedicated equipment.		
LIGHTING	LED strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke detectors		
COMMUNICATIONS			
VOICE (TELEPHONE)		AUDIO	N/A
DATA (COMPUTER)		SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MAIN LOBBY			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Main Lobby	ROOM NUMBER	7.8
ROOM TYPE	Public use	ROOM SIZE (ASF)	949
ROOM USERS	Students, Staff and visitors	ROOM DIMENSIONS	29'-10" x 39'-10"
ADJACENCIES	Elevator	HOURS USED	24/7
FUNCTION	Seating, meeting space		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ vinyl base		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	Acoustic ceiling		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets at seating and tables		
LIGHTING	Dimmable LED recessed troffer, downlights, accent lighting. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	Flat panel display	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–STUDENT COLLABORATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Student Collaboration	ROOM NUMBER	7.9
ROOM TYPE	Meeting / study space	ROOM SIZE (ASF)	Varies
ROOM USERS	Students and faculty	ROOM DIMENSIONS	Varies
ADJACENCIES		HOURS USED	24/7
FUNCTION	Soft seating areas for students to study and collaborate between classes		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Open		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	
FIXED CASEWORK	N/A		
SPECIAL	Soft Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	LED varies depending on space size and function.. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	
AUDIO/VISUAL			
SCREENS	Flat panel monitors at select locations	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Stairs - New	ROOM NUMBER	7.10
ROOM TYPE	Stairs	ROOM SIZE (ASF)	404
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	13'-2" x 27'-8"
ADJACENCIES	Two story portion of building	HOURS USED	24/7
FUNCTION	Vertical circulation through building and emergency exiting		
ARCHITECTURAL			
FLOORS & BASE MTL	Rubber Flooring		
WALLS & STC	Painted Gypsum Board		
CEILING MAT'L & HT	Acoustic ceiling tile		
DOOR SIZE & MAT'L	3'-0" Wood Interior Aluminum Exterior	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Aluminum storefront system	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience receptacle at each landing		
LIGHTING	LED lighting, emergency powered	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Stairs - Existing	ROOM NUMBER	7.11
ROOM TYPE	Stairs	ROOM SIZE (ASF)	Varies
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	Varies
ADJACENCIES	(2) at 6-story tower (1) at 4 story	HOURS USED	24/7
FUNCTION	Vertical circulation through building		
ARCHITECTURAL			
FLOORS & BASE MTL	Rubber Flooring		
WALLS & STC	Painted concrete		
CEILING MAT'L & HT	Painted exposed structure		
DOOR SIZE & MAT'L	3'-0" Wood Interior, Aluminum Exterior	DOOR VISION PANEL	Full Glass
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed aluminum storefront system	DAYLIGHT CONTROL	
FIXED CASEWORK			
SPECIAL	Replace handrails to be ADA compliant		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience receptacle at each landing		
LIGHTING	LED lighting, emergency powered	LTG MOTION SENSOR	No
SPECIAL			
FIRE ALARM/DET.			
	Notification devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Corridors	ROOM NUMBER	7.12
ROOM TYPE	N/A	ROOM SIZE (ASF)	Varies
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	Varies
ADJACENCIES	N/A	HOURS USED	24/7
FUNCTION	Circulation space throughout building		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile flooring with vinyl base		
WALLS & STC	Painted gypsum board with sound batts		
CEILING MAT'L & HT	Suspended acoustic ceiling tile		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience receptacle as needed		
LIGHTING	LED lighting, 2x2, 2x4, or downlights	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	Flat panel monitors at various locations	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	HVAC AHU Rooms	ROOM NUMBER	7.13
ROOM TYPE		ROOM SIZE (ASF)	Varies
ROOM USERS	Facilities personnel	ROOM DIMENSIONS	Varies
ADJACENCIES		HOURS USED	24/7
FUNCTION	Air Handling units and associated equipment		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed concrete		
WALLS & STC	Painted cmu, concrete		
CEILING MAT'L & HT	Painted exposed structure		
DOOR SIZE & MAT'L	3'-0" Door H.M.	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	Floor Drains, Hub Drains, hose bibb		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	NONE		
VENTILATION	NONE		
ELECTRICAL			
POWER	Convenience receptacle as needed. Power for equipment		
LIGHTING	LED lighting – strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Fire Pump Room	ROOM NUMBER	7.14
ROOM TYPE		ROOM SIZE (ASF)	TBD
ROOM USERS	Facilities personnel	ROOM DIMENSIONS	TBD
ADJACENCIES		HOURS USED	24/7
FUNCTION	Location fire pump and associated equipment		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed concrete		
WALLS & STC	Painted cmu, concrete – two hour rated		
CEILING MAT'L & HT	Painted exposed structure		
DOOR SIZE & MAT'L	3'-0" Door H.M. Rated 2 hours	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	Close proximity to exterior of building – work with Local AHJ to confirm location.		
PLUMBING			
SINKS	N/A		
GASES / OTHER	Floor Drain		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	NONE		
VENTILATION	NONE		
ELECTRICAL			
POWER	Convenience receptacle as needed. Power for equipment		
LIGHTING	LED lighting – strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

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VOLUME 1: WINTHER HALL

Section 8

DRAWINGS & RENDERINGS

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Install a new drive lane to increase site accessibility and building access

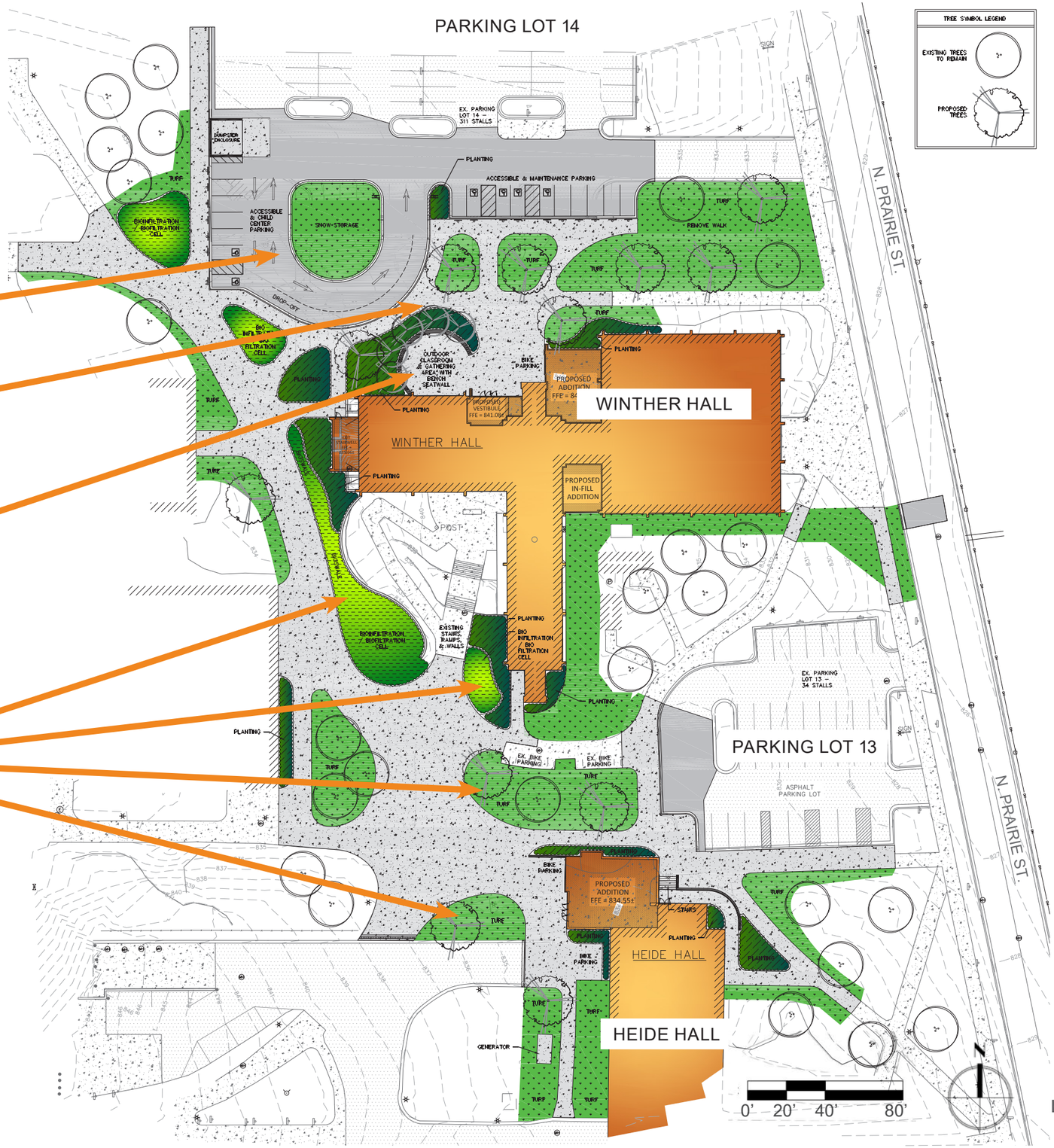
Ease grading for better accessible approaches and site safety during inclement weather

Improve site stormwater drainage

Develop an outdoor classroom/ seating area

New concrete paving (with low Solar Reflectance Index) to further solidify the connection between buildings in the center of campus

Revitalize existing landscaped areas surrounding Winther and Heide Hall



WINTHER & HEIDE HALLS
PRE-DESIGN SITE CONCEPT

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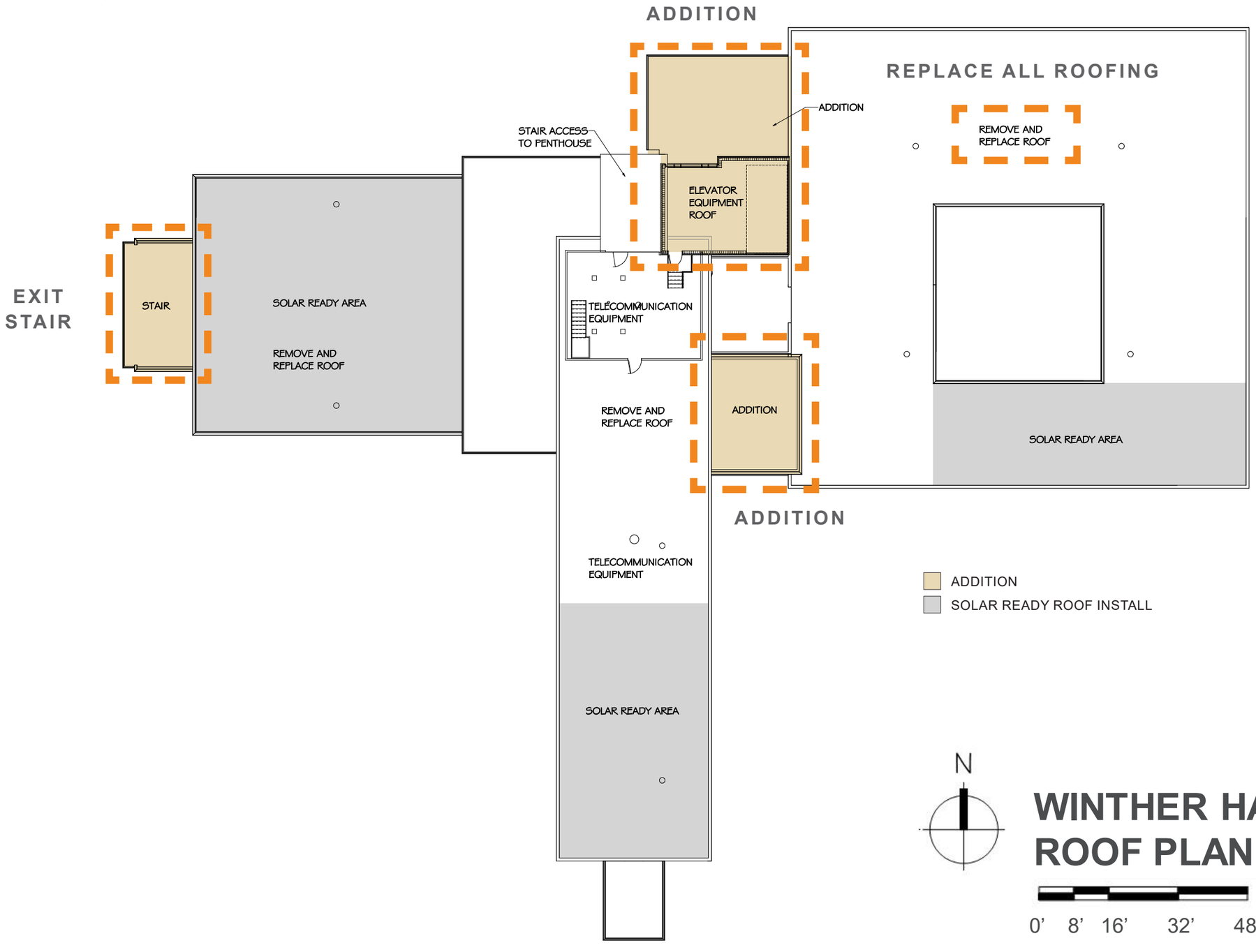

WINTHER HALL- ROOF PLAN

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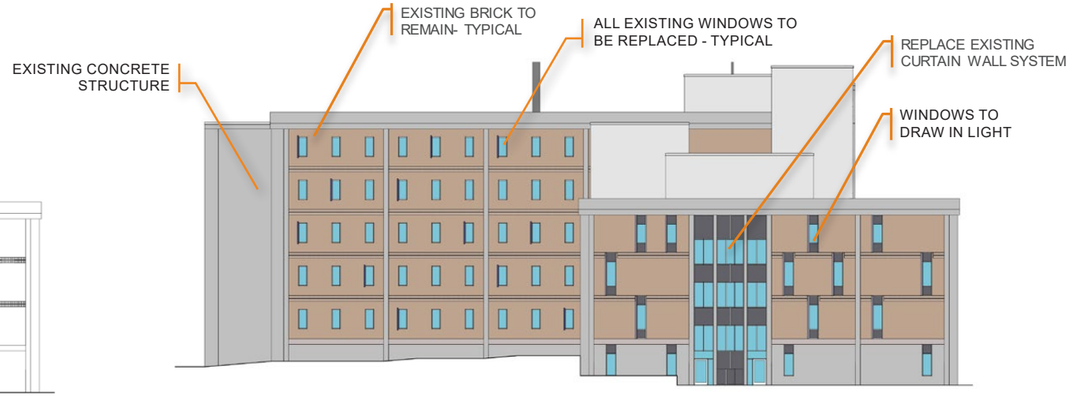
EXISTING EAST ELEVATION

0’ 8’ 16’ 32’ 48’



PROPOSED EAST ELEVATION

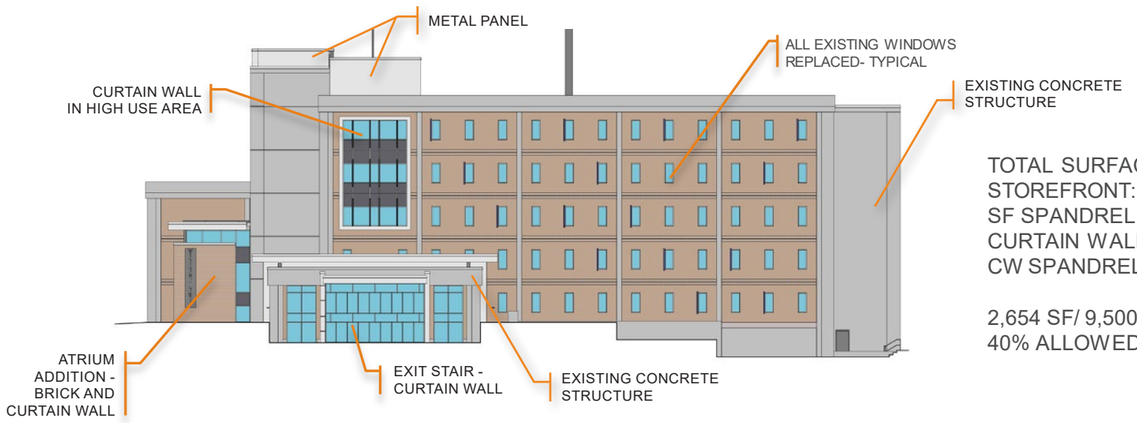
0’ 8’ 16’ 32’ 48’

TOTAL SURFACE AREA EAST:	13,952 SF
STOREFRONT:	905 SF
SF SPANDREL PANELS:	116 SF
CURTAIN WALL:	826 SF
CW SPANDREL PANELS:	323 SF

1,292 SF/ 13,952 SF – 10% GLAZING TO WALL
30% ALLOWED (SUSTAINABILITY GUIDELINES)

EXISTING WEST ELEVATION

0’ 8’ 16’ 32’ 48’



PROPOSED WEST ELEVATION

0’ 8’ 16’ 32’ 48’

TOTAL SURFACE AREA WEST:	9,500 SF
STOREFRONT:	684 SF
SF SPANDREL PANELS:	120 SF
CURTAIN WALL:	2,806 SF
CW SPANDREL PANELS:	716 SF

2,654 SF/ 9,500 SF – 28% GLAZING TO WALL
40% ALLOWED (SUSTAINABILITY GUIDELINES)

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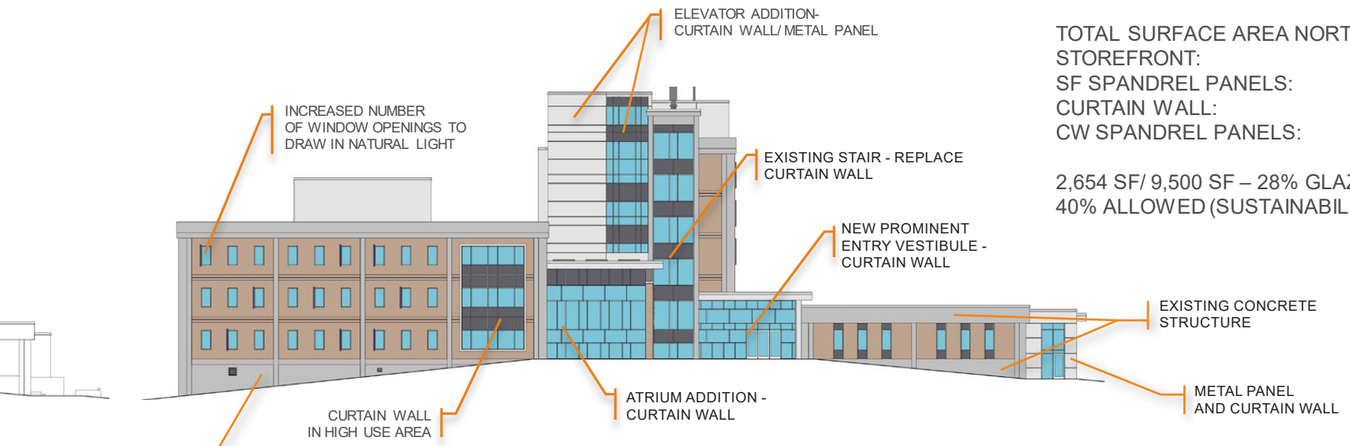
EXISTING NORTH ELEVATION

0’ 8’ 16’ 32’ 48’

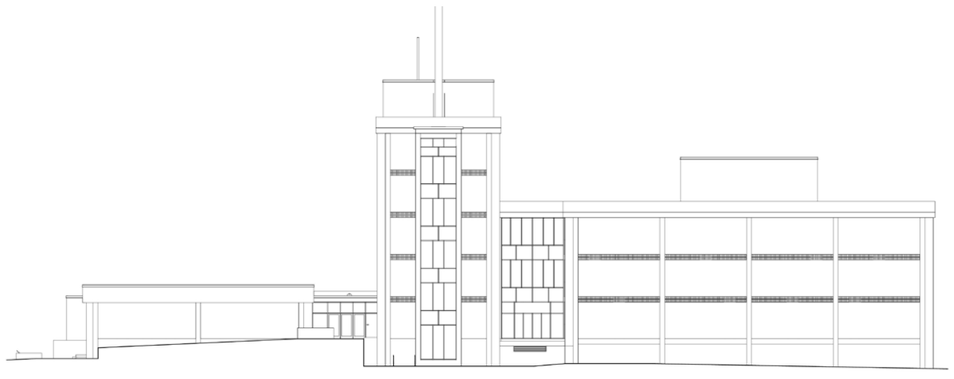


PROPOSED NORTH ELEVATION

0’ 8’ 16’ 32’ 48’

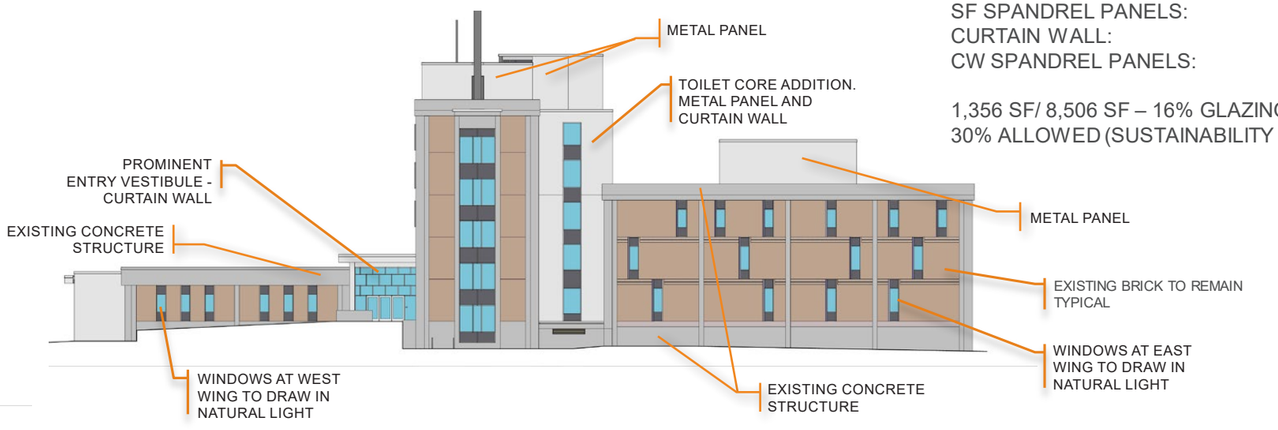
TOTAL SURFACE AREA NORTH:	9,500 SF
STOREFRONT:	684 SF
SF SPANDREL PANELS:	120 SF
CURTAIN WALL:	2,806 SF
CW SPANDREL PANELS:	716 SF

2,654 SF/ 9,500 SF – 28% GLAZING TO WALL
40% ALLOWED (SUSTAINABILITY GUIDELINES)



EXISTING SOUTH ELEVATION

0’ 8’ 16’ 32’ 48’



PROPOSED SOUTH ELEVATION

0’ 8’ 16’ 32’ 48’

TOTAL SURFACE AREA SOUTH:	8,506 SF
STOREFRONT:	736 SF
SF SPANDREL PANELS:	267 SF
CURTAIN WALL:	1,171 SF
CW SPANDREL PANELS:	284 SF

1,356 SF/ 8,506 SF – 16% GLAZING TO WALL
30% ALLOWED (SUSTAINABILITY GUIDELINES)

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EXIT STAIR ADDITION

ELEVATOR/ LOUNGE ADDITION

TOILET ROOM ADDITION

Department Legend

- ADDITION
- CLASSROOM SPACE
- INSTRUCTIONAL TECHNOLOGY / INTEGRATION SERVICES
- MECHANICAL
- STUDENT SPACE

N

WINTHER HALL- FIRST FLOOR PLAN

0’ 8’ 16’ 32’ 48’

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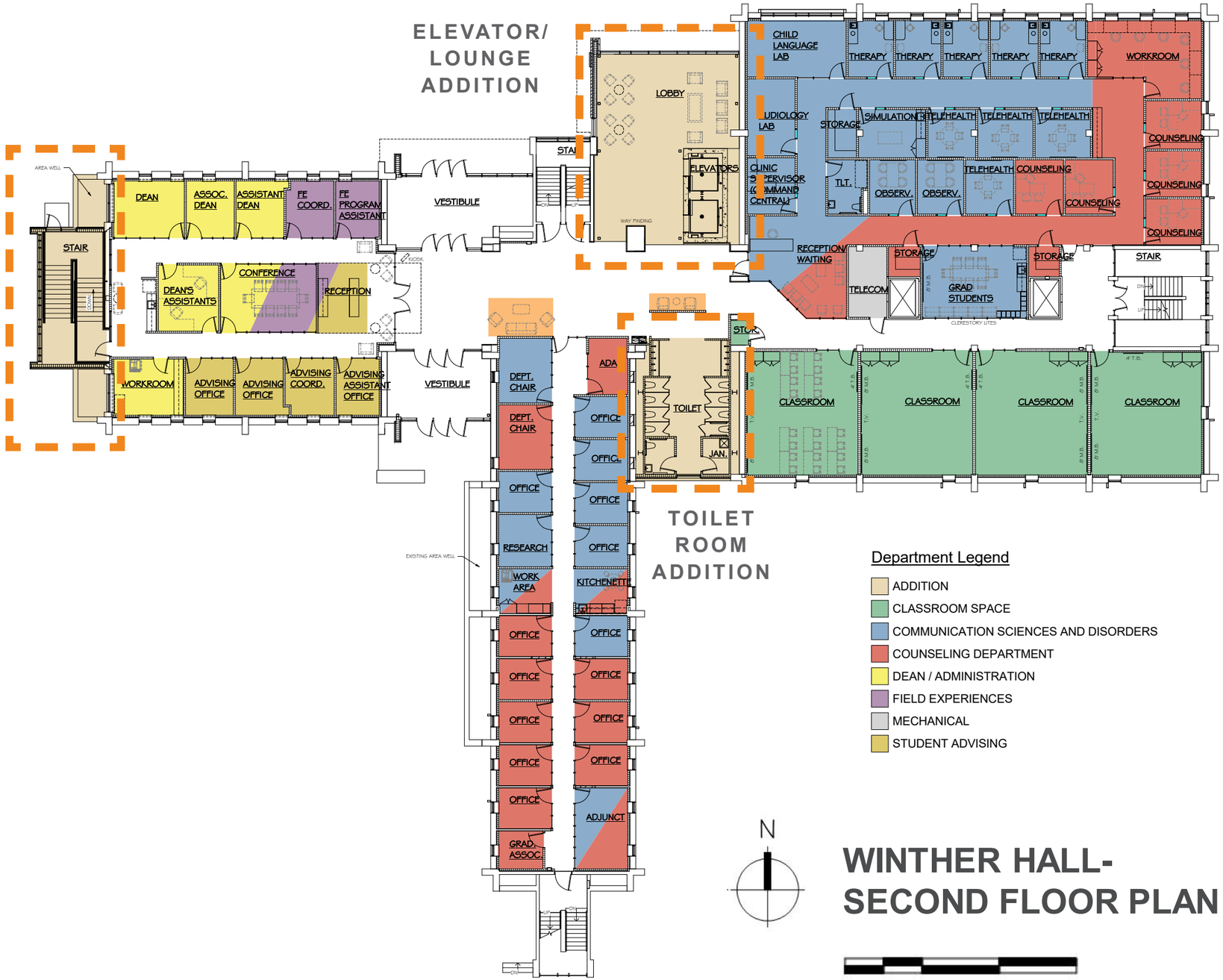
EXIT STAIR ADDITION

ELEVATOR/ LOUNGE ADDITION



TOILET ROOM ADDITION

Department Legend

- ADDITION
- CLASSROOM SPACE
- COMMUNICATION SCIENCES AND DISORDERS
- COUNSELING DEPARTMENT
- DEAN / ADMINISTRATION
- FIELD EXPERIENCES
- MECHANICAL
- STUDENT ADVISING

N

WINTHER HALL- SECOND FLOOR PLAN

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WINTHER HALL- THIRD FLOOR PLAN

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WINTHER HALL- FOURTH FLOOR PLAN

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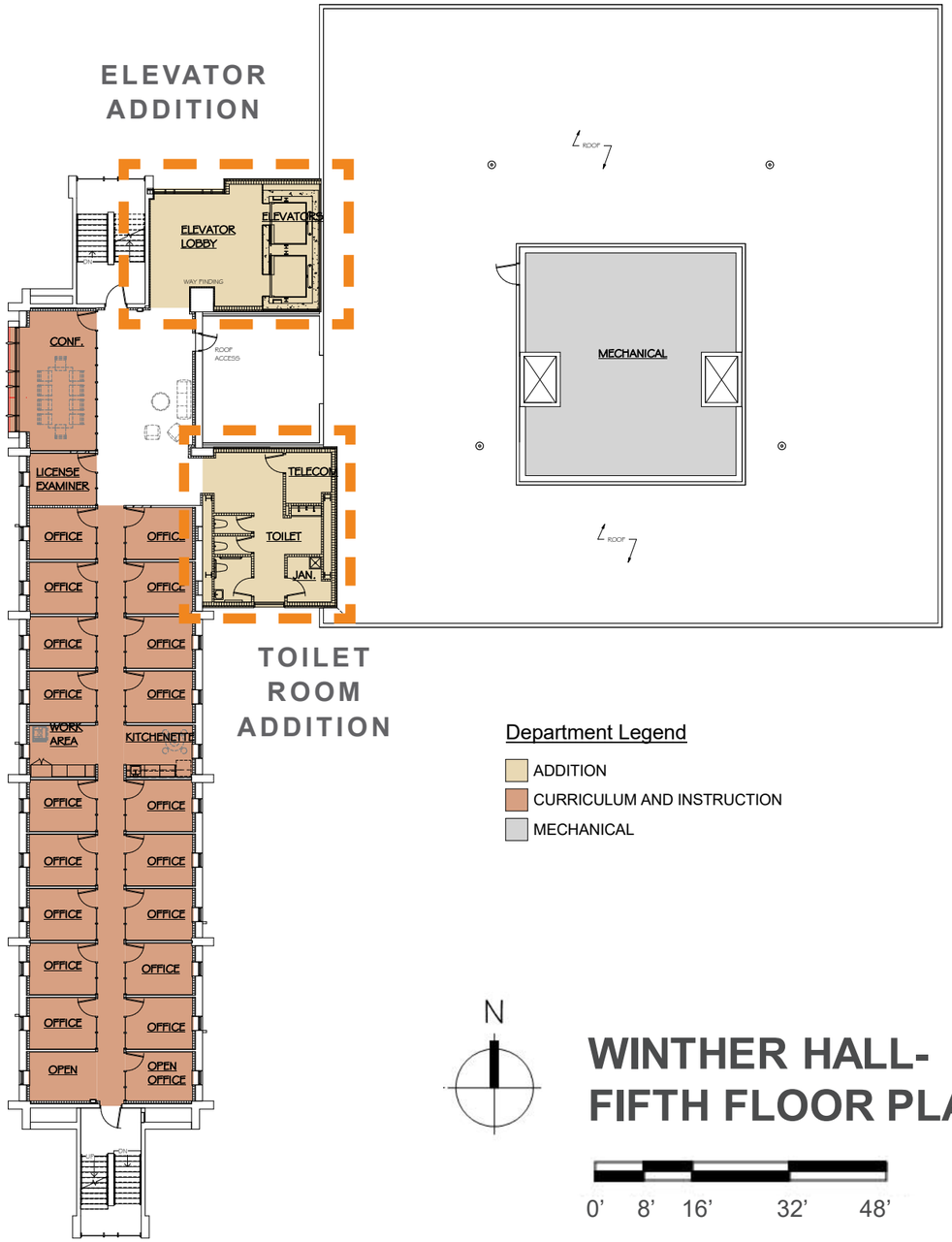
ELEVATOR ADDITION
ELEVATOR LOBBY
ELEVATORS
WAY FINDING
ROOF ACCESS
CONF.
LICENSE EXAMINER
OFFICE
TELECOM
TOILET
JAN.
WORK AREA
KITCHENETTE
OPEN
OPEN OFFICE
ROOF
MECHANICAL
TOILET ROOM ADDITION
Department Legend
ADDITION
CURRICULUM AND INSTRUCTION
MECHANICAL
N
WINTHER HALL-
FIFTH FLOOR PLAN
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ELEVATOR ADDITION

TOILET ROOM ADDITION

Department Legend

EDUCATION FOUNDATIONS

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WINTHER HALL- SIX FLOOR PLAN

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WINTHER HALL - NORTH

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WINTHER HALL - SOUTHEAST

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VOLUME 2: HEIDE HALL

Section 1

PROJECT DESCRIPTION, GOALS & OBJECTIVES

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Section 1

PROJECT DESCRIPTION, GOALS & OBJECTIVES

This project will renovate and add a four-story addition to Heide Hall to accommodate a new accessible, all gender inclusive restroom core and two new elevators serving the four floors of the building. Additionally, the existing elevator and restroom core will be demolished and renovated after the addition is constructed to provide additional usable space, centrally located within the building. The project scope also includes replacing the existing aluminum windows and storefront glazing, skylights and roofing. This will increase the thermal efficiency of these systems and extend the life of the building.

All new plumbing fixtures within the addition will be ADA compliant with dual controls and a 1.6 GPF water efficiency. The addition will be served by a new make-up air handling unit located in a new mechanical penthouse. The system will provide airflow to recover air that will be exhausted from the new restrooms. This new unit will have energy recovery and will exhaust the air out at the penthouse level.

Due to the age of the existing electrical infrastructure and inability to support new elevators, the existing electrical service will be replaced with a new 4160V medium voltage step-down transformer, feeding a new 208 volt, 1600 Amp service. A new generator will be sized to support the life safety systems and new elevators. The existing fire alarm, access control and surveillance systems will be extended to provide coverage of the renovation and addition areas.

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VOLUME 2: HEIDE HALL

Section 2

PHYSICAL PLANNING ISSUES

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Section 2
PHYSICAL PLANNING ISSUES

Background Information

Heide Hall is an existing 61,772 GSF building located in a prominent location along the eastern edge of the University of Wisconsin – Whitewater core campus on Prairie Street. There are two distinct portions of the building. Along the east, a single-story main entrance vestibule and lobby is flanked by two lecture halls. A half flight of stairs ties the entry lobby to the four-story classroom wing.

The building was constructed in 1965 as a classroom hub, and it remains the most used classroom building on campus. There have been minor renovations to the building throughout the course of its life. The existing restrooms, which are original to the building are tight, inaccessible and dated. An old storage room on the first floor was renovated in recent years into an all gender, accessible single-user restroom, however, this is the only accessible toilet room within the building. The existing elevator, original to the building, is slow, undersized for current demands and lacks redundancy if the elevator requires service. The intent of the addition will be to address these deficiencies by increasing accessibility, speed of access between floors and redundancy. Further information can be found in the facility condition assessment attached to the appendix of this report.

Enumeration

This project is going for enumeration in the 2021-23 Capital Budget biennium (19I1L) at an enumerated cost of $59,445,000 and a target project budget of $48,500,000. This includes both the Winther and Heide Hall projects. A more detailed breakdown can be found in the opinion of probable cost included in section five of this report.

Existing Site Conditions

- Existing Land Use
  - Heide Hall is near the center of the UW-Whitewater campus and is located just east of the student union. The topography of the site varies from east to west making it challenging to connect sidewalks into the center of the campus. Parking lot 13 to the north provides accessible and regular parking stalls for both Winther and Heide Halls. The north stair entry faces the center of campus and therefore sees the highest traffic to that of the main entry and south stair.
- Survey
  - A topographic, boundary, and utility survey was completed on 12/11/2020 by Kapur & Associates. It includes Winther to the north, North Prairie Avenue to the east, parking lot 13 and the northern portion of the Heide Hall building to the south, and the eastern portion of the Roseman Hall building to the west. The survey is included for reference in the appendix of this report.
- Landholdings / Ownership
  - The affected site for Winther and Heide Halls is comprised of eight parcels, all of which are owned by the Board of Regents of State Colleges.
- Zoning
  - The site is currently zoned institutional, and the land use will remain the same with the addition and renovations of Winther Hall and Heide Hall. Somerville will work with authorities having jurisdiction, including The City of Whitewater, Walworth County, and The Whitewater Fire Department, on applicable approvals required for the projects.

- Topography
  - Significant grade change occurs around the building, with multiple entry elevations. The entry lobby and lecture halls along the east are up a half story to that of the rest of the building. The north and south stairwells are accessed from the west and are at the same elevation. There is currently a considerable slope between the sidewalks that lead to the main entry from the sidewalks to the west, which could be considered challenging to those with mobility impairments and in inclement weather. The new site design will ease the slope of the sidewalk connecting the two entries.
- Vegetation/ Landscaping
  - The landscape around Heide Hall is sparse, with some perennial foundation plantings along the east face of the building, mature trees and grassy areas on the east and west sides of the building. The project will look to add some planting beds along the addition and reconstructed sidewalks to help provide a soft edge against the building and buffer some of the impervious surfaces.
- Subsurface Conditions
  - A Geotechnical consultant was in the process of completing soil borings at the time of this pre-design report. The Geotechnical report will be shared upon completion. Based on information gathered from previous drawings, traditional spread footings are anticipated. The water table will also be taken into consideration for design loads and waterproofing.
- Construction Staging
  - The contractor will secure the perimeter around the Heide Hall addition area prior to the start of construction. The access to the north stair will be maintained during construction, as the building will be fully occupied during construction. A construction staging area will be further developed during preliminary design.

Utilities/ Infrastructure

- Steam Piping and Chilled Water Piping
  - Steam is provided by the central campus utility plant and enters Heide Hall at the west wall of the building and is piped above the ceiling to the first-floor mechanical room on the east side of the building. From there, it is piped to the mechanical penthouse. The steam and condensate piping that serve Heide Hall from the central heating plant has been slated for replacement in the coming years by the campus utility master plan. The replacement of this infrastructure will occur under a separate utility project and is not a part of this project scope. The interior steam piping and equipment was replaced in 2006 and is in excellent condition. Chilled water is also provided by the central campus utility plant and enters Heide Hall at the west wall of the first floor and is piped above the ceiling to the first-floor mechanical room. The chilled water line also runs to the mechanical penthouse and serves the air handling equipment for the upper floors. Based on the information we have received from the facilities group, the capacity of the existing piping appears to be adequate for future needs. This will be further confirmed during preliminary design.
- Sewer Lateral
  - Heide Hall is served by a 6” cast iron sanitary lateral that enters the building on the north side below the first floor of the north stairs. Due to the age of the sanitary lateral, it would be recommended to replace the lateral in future renovations.
- Storm Water Lateral
  - Heide Hall is served by one 8” storm drain that leaves the building on the north side and turns east and ties into the city storm drain on Prairie Street. The existing roof drainage appears to be adequately sized and is working properly. Due to the age of the storm lateral, it would be recommended to replace the lateral in future renovations.
- Water Service Lateral
  - Heide Hall is served by a 4” galvanized water lateral coming into the building from Prairie Street. There is a 2” water meter which is followed by a 3 ½” diameter iron domestic water service that serves the rest of the building. The line

is beyond the useful life for galvanized piping. In addition, the need for a new fire protection system will require an upgrade to a 6" lateral.

- Electric Service
  - Heide Hall is served by a 4160V campus primary feed to an indoor building step-down 400 kVA vault transformer. This feeds to an adjacent electrical room with a 208/120V, 1200 amp, 3 phase distribution panel. Additionally, a natural gas Kohler, 120/208V, 18kVA emergency generator provides back up power for emergency lighting, fire alarm and miscellaneous receptacles. Given the age of the main distribution panel and generator (original to the building), the project will include the complete replacement of the electrical service, 208-volt distribution, emergency generator, and emergency power distribution.

Transportation/ Circulation

- Vehicular/ Bicycle/ Pedestrian
  - Heide Hall is easily accessible along North Prairie Street. Although there are not dedicated bike lanes, several sidewalks tie the building to the other buildings on this pedestrian-friendly campus.
- Parking
  - Parking lot 13 just to the north of Heide Hall provides stalls for Winther and Heide. In addition, Library lot 12 to the south of Heide hall is within close proximity.
- Deliveries/ Loading Dock
  - Heide Hall does not have a loading dock, but there is a dedicated drive lane for deliveries adjacent to the northwest corner of the building.

Existing Building Conditions

- Condition of Existing Infrastructure and Equipment
  - It is anticipated that during construction much of the infrastructure and equipment will remain, as the addition and renovations only account for a small portion of the building. As noted earlier, the existing electrical distribution panel, transformers and generator will be replaced and a new make-up air unit will supplement the added square footage of the addition.
- Remediation of Hazardous Materials
  - A Wisconsin Asbestos and Lead Management System (WALMS) inspection was conducted at Winther Hall in 2003 and Heide Hall in 2004. The inspection identified asbestos containing material (ACM) in both buildings that includes tank insulation, pipe fittings, 9" and 12" floor tile and mastic. Although some minor abatement has occurred over the past 17 years, the majority of these ACM's remain in both buildings and asbestos abatement will be required as part of the renovation project. A separate asbestos abatement consultant, contracted directly by DFD, will design and bid the abatement portion of the project. The Asbestos Abatement Contractor (AAC) drawings and specifications will be incorporated in the overall project documents. DFD will receive separate Asbestos Abatement Contractor (AAC) bids in addition to the MEP and GPC bids. The AAC and asbestos consultant will have a separate contract with DFD. The GPC will be required to coordinate and include the asbestos abatement in the overall construction schedule.
- Construction Staging/ Occupancy of Site During Construction
  - Heide Hall will be fully occupied during construction and the construction will occur in two phases. Phase one will include the addition, which can be built without interrupting the occupancy of the building. After the addition is complete, phase two will include the renovation of the existing elevator/restroom core into re-purposed space. Construction barriers will be set up during this phase to allow for complete occupancy of the building during this time.

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VOLUME 2: HEIDE HALL

Section 3

PROGRAM STATEMENT / OCCUPANTS / USERS & ACTIVITIES

SPACE TABULATION

DESIGN CONCEPT / BASIS OF DESIGN

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Section 3

PROGRAM STATEMENT / OCCUPANTS / USERS & ACTIVITIES

Heide Hall is a vital classroom building on campus. It houses a significant number of classrooms in the center of campus. Appropriately sized corridors and a simple floor plan layout provide easy wayfinding and access to classes. The two aspects that greatly hinder accessibility and access are the current public restrooms and elevator. The new addition will be built to the north, a route that connects the building to the main sidewalks in the center of campus. Two new elevators and a common core restroom at each level will greatly increase the accessibility of the space by incorporating universal design standards. Additionally, renovated and re-purposed space (at the existing elevator and restroom core) will provide collaborative and quiet study spaces that are lacking in the current layout. Two new health rooms will be added to the first and second floors to provide spaces for lactation/ medicine disbursement (i.e. insulin). A new wellness room on the third floor will provide a meditative space to allow students and staff to take a break within a private space that is acoustically separated from the public spaces. A new electrical system and replacement of windows and roofing will extend the life of the building increase thermal and energy efficiency.

SPACE TABULATION

Space Summary per selected option and program:

- GSF: 69,340
- ASSIGNABLE GSF: 42,744
- EFFICIENCY: 62%

UNIT	NO. OF OCCUPANTS	ASF/ OCCUPANT	ASF/ ROOMS	NO. ROOMS	TOTAL ASF
Addition					
All Gender Toilet Rooms			428	4	1,712
Janitor Room			53	4	212
Vestibule			290	1	290
Student Collaboration			290	3	870
Elevator			124	4	496
Mechanical Penthouse			1,080	1	1,080
Total Addition					**4,660**
Renovation					
Multipurpose Room			343	2	686
Health Room			90	2	180
Group Study			76	4	304
Wellness Room			90	1	90
Study Lounge			505	1	505
Total Renovation					**1,765**
Project Total					**6,425**

DESIGN CONCEPT / BASIS OF DESIGN

Architectural

Governing Codes, Standards and Reviews

- Wisconsin Enrolled International Existing Building Code (IEBC) 2015 – Alteration – Level 3 and 2015 International Building Code (IBC)
- ADA Standards for Accessible Design (2010)
- ICC A117.1-2009 Accessibility Standards
- Department of Facilities Development (DFD) Accessibility Guidelines
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- Department of Facilities Development (DFD) Sustainability Guidelines for Capital Projects
- University of Wisconsin – Whitewater Facilities Management Peer Review

Overall/ Architectural Design Concept

- The new north addition will tie into the existing concrete structure and an exterior envelope that is composed of 8" CMU and a brick veneer. The addition will match the 11'-0" floor-to-floor heights and will increase the building footprint by 1,965 square feet per floor. A new roof top penthouse will house mechanical equipment for conditioning the new addition.
- It was determined during the programming meetings that the building lacks spaces for quiet study and spaces for students to gather and collaborate. Currently, the lecture halls and space outside the lecture halls provide the only space, outside of classrooms for students to study. These areas are not conducive to studying, as they are in high traffic areas prone to noise and temperature swings. As such, the renovated and re-purposed core will provide these study and collaborative spaces.
- In the addition, there will be soft seating areas at the second, third and fourth floors that will also provide lounge style seating with excellent views towards the heart of campus.
- New windows with be triple pane with low-E coated Argon filled glass. This includes all curtain wall glazing, storefront glazing, window units with integral blinds (within classrooms) and skylights.
- All new roofing will be a 60 mil fully adhered EPDM roofing membrane over tapered insulation and base layers of polyisocyanurate insulation over a vapor retarder. Additional insulation will increase the R-value over the existing built up roofing system.
- Two new traction elevators will be added to the north addition, with a 4000 lb capacity, and will meet stretcher requirements. They will have back-up power capacity through a new generator. The elevators will be specified with third party controllers to allow non-proprietary ongoing maintenance contracts. In addition, the elevator controls will integrate newer software to allow elevator users to call the elevator through an application on their mobile device. The existing elevator, shaft, equipment and elevator machine room will be decommissioned after the new elevators are operating. The existing floor openings will be infilled to re-purpose the core space into renovated other uses. One of the two elevators will be provided with back-up power through a new generator.
- The massing of the building addition will look to draw prominence to the north entrance, as the north entry point sees the highest use due to the proximity to the center of campus. A new canopy will shelter from the elements, while a curtain wall system will maximize light and transparency between spaces. A portion of the addition will be clad in a brick veneer to match the existing building, while other parts of the addition will be clad in insulated metal panel system to modernize the aesthetic.

Based on discussions with the UW-Whitewater Project Team and Administration, the following spaces are planned for the following floors:

Proposed First Floor

- Health Room
- Two Group Study Rooms
- Open Study Area
- North Entrance/ Vestibule
- Environmental Services Closet
- Restroom Core
- Elevator Core

Proposed Second Floor

- Health Room
- Two Group Study Rooms
- Open Study Area
- Soft Seating Area (addition)
- Environmental Services Closet
- Restroom Core
- Elevator Core

Proposed Third Floor

- Wellness Room
- Open Study Area
- Soft Seating Area (addition)
- Environmental Services Closet
- Restroom Core
- Elevator Core

Proposed Fourth Floor

- Small Soft Seating Area (addition)
- Elevator Controller Room
- Environmental Services Closet
- Restroom Core
- Elevator Core

Interiors

- Furnishings
  - Furniture will support student's and staff's ability to collaborate in the group study and open study areas. A variety in soft lounge seating, working height tables and chairs, ottomans and high-top tables will provide the end users with options that best fit their use of the space.
- Interior Design
  - The interiors will reflect a new modern active-learning environment with warm natural materials and integration of natural light. Soft materials and furnishings will provide a welcoming environment that can adapt over time.

Structural

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- ASCE 7-10
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review

Structural Design Criteria

Risk Category:	II as defined by ASCE 7-10 Table 1.5-1 Is = 1.0, Iw = 1.0 and Ie = 1.0.
Roof Snow Load:	21 psf plus required increase for drifted snow load and mechanical equipment
Public Floor:	100 psf
Stairs and Lobbies:	100 psf
Corridors at first floor:	100 psf
Wind:	115 mph Wind speed - Exposure C
Seismic:	Seismic Design Category A (does not govern)

Materials

EXISTING	Cast-in-Place Concrete:	3000 psi at 28 days (ALL)
	Reinforcing Steel:	ASTM A-15 (Grade 40) typical ASTM A432 (Grade 60) column bars
NEW	Cast-in-Place Concrete:	3000 psi at 28 days: Footings and masonry core fill 4000 psi at 28 days: All other concrete, U.N.O.
	Masonry:	f'm = 2000psi
	Reinforcing Steel:	ASTM A615, Grade 60 ASTM A775, Grade 60 Epoxy Coated Reinforcing Steel at all exterior slabs and stoop slabs that are exposed to deicing salts
	Structural Steel:	Wide flange shapes: ASTM A992 or A572, Grade 50 unless noted otherwise Tube sections: ASTM A500, Grade B Pipe sections: ASTM A53, Grade B Channels, Angles, Plates, Anchor bolts: ASTM A36 Connection Bolts: ASTM A325, Type N (Bearing bolts)
	Composite Deck:	1 1/2" deep, 20 gage wide rib deck

Live Load Deflection Criteria

- Floor and Roof Framing: Total Deflections L/240 / Live Load Deflections L/360
- Exterior Brick Support: L/600 vertical
- Lateral Drift of Building: Height/500 (for entire building and each floor to floor)

Description of Structural Systems

- Modifications to Heide Hall will be completed to increase elevator count and provide new bathrooms at each floor. Structural steel columns and wide flange beams will support a new concrete slab on composite metal deck at the floors and either wide flange beams or steel joists at the roof supporting 1 ½" metal roof deck. Braced frames will provide lateral support for the tower where attaching to the existing structure is not possible or the addition of lateral load to the existing building would cause overstress conditions within the existing structure. The addition will be laterally supported by a new masonry elevator shaft. A new double cab elevator shaft will be provided and will replace the existing single cab elevator. The single cab elevator opening will be removed, and the floor will be infilled on all levels to capture additional floor space.

- Structural steel supporting concrete on metal deck and roof deck is considered the most appropriate for the construction for these modifications/additions. This type of construction allows for easy installation within an existing space and minimizes floor depth given the constraints regarding structure depth present on site. The existing structural systems rely on repetition of forms, and layout to be economical and are not likely to be cost effective for the proposed modification and additions.

- A geotechnical evaluation of the areas to be added or modified has not been completed at this time but based on the existing drawings we anticipate the foundations to be conventional spread footings founded on natural soils or bedrock. Given the proximity to adjacent foundations, adding onto and/or underpinning of existing foundations is likely. Where appropriate, offset footings or other foundation support systems such as helical piers could be considered to minimize the impact on the existing foundation systems.

- Additional entrances and wall openings are anticipated to be framed with structural steel lintels and beams. Given the era of construction, existing masonry cladding walls may need to be reinforced in areas where new openings are considered.

Fire Protection

Governing Codes, Standards and Reviews

- Department of Professional Services Peer Review
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review
- Latest National Fire Protection Association (NFPA) standards
- Whitewater Fire Department Peer Review

Design Criteria

- The existing building currently does not have a standpipe system. A manual wet standpipe system will be designed for the north and south stairwells. Determination would have to be made on how to provide the required fire rating for the standpipe feed mains since it would be installed in unsprinkled portion of the building.
- The new addition would be designed to be fully sprinkled, resulting in the building being classified as partially sprinkled. A hydraulically calculated wet sprinkler system will be designed in accordance with NFPA 13. Fire protection mains will be sized to accommodate future expansion of the system to allow for the existing portion of the building to become sprinkled in the future.
- A combination standpipe will supply zone controls on each floor, separating each floor into individual zones. Tamper and flow switches, located on each zone, shall be connected to the building fire alarm system.
- The building is not classified as a high-rise building, as the top occupied floor is less than 75 feet above fire department access. This allows manual wet class I standpipes to be utilized and shall be provided in each egress stairway. 2 ½" hose valves shall be designed to be provided on each intermediate landing. Hose valves will also be required on the roof, if the roof has access. Design of the standpipes will be in accordance with NFPA 14.
- Current hydrant flow tests will be obtained and utilized to determine whether the water supply is sufficient. If the existing water service is deemed insufficient, coordination between civil and plumbing shall be required. A new six-inch combination water service will replace the existing four-inch water service and shall provide the necessary water supply. A double check backflow preventer will be designed to isolate the fire protection system from the domestic water system.
- A 4" x 5" Storz connection will be designed to be used as the fire department connection. The FDC will be located on the address side of the building as approved per the local fire department.
- All system zone's main drains and inspector's test, sized in accordance with NFPA, will be routed to the exterior of the building to allow ease of system testing and draining.
- Concealed quick response sprinklers shall be utilized in all finished areas. In unfinished areas, quick response pendent and uprights shall be utilized. Flexible sprinkler connections may be utilized, but only in areas with acoustical ceilings.

Materials

- Pipe Material, shall conform to DFD Master Specifications, such that piping that is 2" and smaller shall be black steel, schedule 40 pipe. Piping that is 2 ½" and larger shall be black steel, schedule 10 pipe. Thin-wall steel and CPVC piping shall not be allowed.
- Pipe joints, shall conform to DFD Master Specifications and NFPA 13, such that threaded, welded, and grooved joints shall be allowed to be installed. Fabricated fittings and short turn radius fittings shall not be allowed. Mechanical tees with solid backs may be utilized.

Plumbing

Governing Codes and Standards

- Wisconsin Department of Safety and Professional Services Chapters 381, 382 and 384
- Department of Facilities Development (DFD) Plumbing Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Recommendations and Peer Review

Design Criteria

- Existing Building
  - The existing interior plumbing systems, sanitary waste and vent, storm and clear water waste and vent, domestic water piping, water heaters, water softeners and pumping systems within the building will be remain. Except for the storm drainage, sanitary waste and vent and the water piping within the main toilet core area. This piping on the first, second and third will be removed and replaced with new piping. The existing waste, vent and water piping in the 3rd floor ceiling that connect to the fixtures on fourth floor will also be removed and replaced.
  - All the plumbing fixtures and related piping in the main toilet core area on first, second and third floor will be removed. The plumbing fixtures on the fourth floor will remain.
- Building Addition
  - All new sanitary, storm and water piping and plumbing fixtures will be provided throughout the building.
  - Water piping supplying water to the new addition will connect to the existing water pipe systems with in the first-floor mechanical room.
  - The storm and sanitary will connect to the existing storm and sanitary piping on the north side of the building.

Sanitary Drain, Waste and Vent

- Existing Building
  - A new sanitary drain waste and vent system will be provided for new plumbing fixtures on first, second and third floor and within the third-floor ceiling to the existing fixtures on fourth floor that require drainage. Plumbing fixtures and devices will be drained by gravity through conventional drain, waste, and vent stacks to the existing sanitary located below the first floor.
  - The above ground and below ground sanitary waste and vent piping will be type PVC-DWV Schedule 40 with solvent welded joints. Unless located in plenum ceiling area then the material shall meet the requirements of ASTM E-84/ UL723 for flame spread of <25 and smoke development of <50.
  - In area where the waste discharge going into the sanitary piping is anticipated to be above 140-degree F. The waste piping shall be CPVC or cast iron.
- Building Addition
  - A new sanitary drain waste and vent system will be provided for all plumbing fixtures, floor drains, indirect waste receptors and equipment that require drainage. Plumbing fixtures and devices will be drained by gravity through conventional drain, waste and vent stacks to the municipal sewer.
  - The above ground and below ground sanitary waste and vent piping will be type PVC-DWV Schedule 40 with solvent welded joints. Unless located in plenum ceiling area then the material shall meet the requirements of ASTM E-84/ UL723 for flame spread of <25 and smoke development of <50.
  - In area where the waste discharge going into the sanitary piping is anticipated to be above 140 degree F. The waste piping shall be CPVC or cast iron.

Storm and Clearwater Waste

- Existing Building
  - A new storm drainage system will be provided to convey rainwater from the ceiling of the third floor to the existing storm drainage located below the first floor.
  - The above ground and below ground storm piping will be type PVC-DWV Schedule 40 with solvent welded joints. Unless located in plenum ceiling area then the material shall meet the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50. Roof drain bodies and above ground horizontal storm and clearwater waste piping will be insulated.
- Building Addition
  - A new storm drainage system will be provided to convey rainwater from the roof of the building to the site storm sewers. The roof will be drained by gravity through storm building drains to the site or municipal sewer. The elevator sump pump will be simplex, alarmed to the BAS and connected to the emergency power system. Overflow roof drainage will be accomplished through roof scuppers.
  - Large volume clearwater waste from air handing units will be conveyed by gravity through a separate drain and vent piping system and will connect to the building storm drain system.
  - The above ground and below ground storm and clearwater waste and vent piping will be type PVC-DWV Schedule 40 with solvent welded joints. Unless located in plenum ceiling area then the material shall meet the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50. Roof drain bodies and above ground horizontal storm and clearwater waste piping will be insulated.

Domestic Water System

- Existing Building
  - Potable water will be supplied from the existing buildings water systems, Domestic hot and cold-water piping will be provided to new plumbing fixtures on first, second and third floor and within the third floor ceiling to supply the plumbing fixtures on the fourth floor. Water hammer arresters will be provided at all solenoid valves and at other potential sources of water hammer.
  - Domestic hot water will be generated by the existing single steam water heater. Hot water will be recirculated to ensure near instant hot water delivery.
  - Domestic water piping 2” and smaller will be PEX piping, larger than 2” will be type L copper, with soldered or mechanical grooved joints. Press fittings are not permitted. Piping located in plenum ceiling areas shall have material that meet the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50.
  - The water system piping will be insulated. Isolation valves will be provided at all riser’s connections, branch piping connections to fixture groups and connections to equipment.
- Building Addition
  - Potable water will be supplied from the existing buildings water system, Domestic hot and cold-water piping will be provided to all plumbing fixtures and other devices and equipment that require a water supply. Water hammer arresters will be provided at all solenoid valves and at other potential sources of water hammer.
  - Domestic hot water will be generated by the existing single steam water heater. Hot water will be recirculated to ensure near instant hot water delivery.
  - Domestic water piping 2” and smaller will be PEX piping, larger than 2” will be type L copper, with soldered or mechanical grooved joints. Press fittings are not permitted. Piping located in plenum ceiling areas shall have material that meet the requirements of ASTM E-84/UL723 for flame spread of <25 and smoke development of <50.
  - The water system piping will be insulated. Isolation valves will be provided at all riser’s connections, branch piping connections to fixture groups and connections to equipment.

Materials

- All piping material will adhere to DFD master specification requirements.
- Plumbing fixtures to be ADA compliant.

Plumbing Fixtures

- Plumbing fixtures will be commercial quality, match program requirements and comply with University guidelines. Sample fixtures requirements include: Wall hung toilets with 1.28 gpf manual flushometer valves; Urinals wall hung with .5 gpf battery power electronic flush valves and Lavatories integral with countertop with slow closing faucet with .5 gpm flow. Exterior freeze proof wall hydrants with backflow preventer outlets.

HVAC (Heating, Ventilating & Air Conditioning)

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Mechanical Code (IMC) with Wisconsin amendments
- Wisconsin Enrolled 2015 International Building Code (IBC) with Wisconsin amendments
- International Energy Conservation Code (IECC) 2015
- ANSI/ ASHRAE/IESNA Standard 90.1-2016
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin –Whitewater Facilities Management Peer Review

HVAC Design Conditions

- Outside:
  - Summer: 89°F dry bulb, 77° wet bulb
  - Winter: -10°F
- Inside Space (Public Area, classroom, meeting room, corridor, etc.):
  - Cooling Design:
    - Occupied: 76°F, 50% RH maximum
    - Unoccupied: 82°F, 50% RH maximum
  - Heating Design:
    - Occupied: 68°F, No humidification
    - Unoccupied: 62°F, No humidification
- Inside Space (Electrical and Mechanical Rooms):
  - Cooling Design: No mechanical cooling or humidity control
  - Heating Design: 60°F, no humidification
- Inside Space (Entry Vestibules):
  - Cooling Design: No mechanical cooling or humidity control
  - Heating Design: 60°F, No humidification
- Exhaust Rates:
  - 75 cfm/toilet fixture
  - 2 cfm/ sq. ft. or 75 cfm for janitorial spaces

Sound Level Guidelines

- HVAC related noise will conform to the 2019 ASHRAE Application Handbook, Chapter 49, Noise and Vibration Control, Table 1.
  - Private Offices NC/RC30
  - Corridors and Lobbies NC/RC40

Ventilation

- Ventilation rates will be designed in compliance with SPS 364.0403 except provide 15 cfm per person instead of 7.5 cfm per person (SPS 364.0403(5)(a). For systems where the ventilation rate calculated using ASHRAE 62.1 results in a lower ventilation rate than calculated using the above method and the calculated rate is in compliance with SPS 364.0403 using the standard 7.5 cfm per person, then the ASHRAE method shall be used.

Temperature Controls

- The intent is to extend the existing DDC control system and provide electronic actuators. Controls will be connected to the existing Johnson Controls system utilized on campus. New DDC panels will be provided as needed to provide adequate coverage for the building.

Demolition

- The existing HVAC systems within the renovated areas will be modified to suit the needs of the new layout. This includes removal of (1) variable air volume box, (4) hot water convectors, 2 exhaust fans, associated ductwork, piping and diffusers.

New HVAC Systems:

- The addition at Heide Hall will be served by a new make-up air handling unit located in a new mechanical penthouse. The unit will be approximately 6,700 cfm or 22.5 tons. The system will provide airflow to recover air that will be exhausted from the new restrooms. This new unit will have energy recovery and will exhaust the air out at the penthouse level.
- The new unit will utilize campus steam and chilled water for heating and cooling. The new unit will require approximately 45 gpm of chilled water and approximately 270 MBH of steam. The existing steam and chilled water piping at Heide Hall has sufficient capacity to accommodate the additional equipment.
- Steam, condensate and chilled water piping will be extended through the existing building to the new mechanical penthouse.
- Convectors and cabinet unit heaters will be provided to heat entrances and toilet rooms.
- Finned tube radiation will be provided at areas with glazing in common spaces.
- The existing heating water pumps were replaced in 2006 and appear to be in good condition. For this reason, we propose modifying the existing pumps to provide the additional capacity required for the system serving the new addition. If in fact the existing heater water pumps cannot be modified to handle the additional capacity, we will replace the existing pumps. We will study the existing pumps to verify that this can be accomplished as we get further into design.
- Classrooms will be zoned individually. One new variable air volume box with reheat will be provided for each classroom. Occupancy sensors will be tied into the variable air volume box to reduce or shut off air flow when the space is not occupied.
- Return/exhaust air from the spaces will be hard ducted.
- The existing chilled water and steam condensate meters have been replaced or are currently being replaced and will be reused within this project.

Electrical

Governing Codes, Standards and Reviews

- Wisconsin Enrolled 2015 International Building Code (IBC)
- ANSI/IEEE C2 - National Electrical Safety Code
- ANSI/NFPA 70 - National Electrical Code
- NECA - Standard of Installation
- NEMA Standards
- Electrical Code Volume 2, Chapter SPS 316, Wisconsin Administrative Code
- Department of Facilities Development (DFD) Design Guidelines and Integrated Design Review
- University of Wisconsin – Whitewater Facilities Management Peer Review

Primary Electrical

- The campus primary is routed through a campus-owned medium voltage loop system. A new 4160V feed will be connected to the existing exterior loop switches. A new 4160 volt switch line-up will be provided in a dedicated medium voltage room on the first floor of the building. This line-up will consist of 4160V step down transformer with a 208/120V, 3-phase, 4-wire secondary distribution, which will be located inside the building electrical room. The medium voltage room will contain a ground bus around the perimeter of the room.

Electrical Power and Lighting Distribution

- The distribution switchboard will be located in the main electrical room on the first floor and be rated for approximately 1600 amps at 208/120 volts. This new distribution will feed the existing branch panel loads as well as the new addition including elevator(s).
- Electronic secondary metering will be incorporated on the main distribution for energy in-use monitoring.
- Surge protection (SPD) for the main distribution will be utilized.

General Power

- General purpose and specific-use receptacles will be utilized based on the building design and requirements of the User Agency. Per DFD guidelines, six receptacles shall be the maximum number connected to a general 20A branch circuit. The maximum load on any one circuit shall not exceed 12 amps. No more than two workstations should be served by any one branch circuit.
- All power conductors will be installed in metallic or non-metallic raceway systems. Conduits will be independently supported, and not from other systems such as ductwork, sprinkler, etc.
- Miscellaneous equipment with a load greater than 6 amps should be connected to a dedicated circuit. Equipment less than 6 amps can be circuited with general-purpose receptacles but the connected load for the circuit shall not exceed 12 amps.
- Drinking fountains and vending machines to be fed from GFCI breaker in branch panel.

Lighting

- L.E.D. Lighting will be connected at 120 volts. L.E.D. fixtures will be energy-efficient, easy to maintain, and appropriate for the intended function of the space.
- The designed lighting levels will be based on the latest version of Illuminating Engineering Society of North America (IES) handbook.
- Controls shall be a combination of automatic and manual lighting controls throughout the building. Manual wall dimmer switches (0-10V) will be provided, as well as occupancy sensors or vacancy sensor switching where practical. Interior daylight sensors will be used where access to daylight can provide sufficient illumination. Controls will be designed to the current code.
- Style of lighting design intent in particular areas are as described in the chart below.

Area Description	**Luminaries** (LED type light source)	**Controls**	**Light Levels**
Lobby Public Areas	Suspended decorative and recessed downlighting for ambient.	Centralized lighting control system.	10-20 footcandles
Small and Medium Conference/Collaborative Learning Areas	Linear recessed for main area and downlights at perimeter. Some areas to have 2'x2' or 2'x4' recessed with volumetric distribution.	Vacancy sensor with multi-level switching.	50 footcandles
Restrooms	2'x2' or 2'x4' recessed with volumetric distribution.	Occupancy sensor with manual switch.	30 footcandles
Stairwells	Linear suspended downligHT.	Centralized lighting control system.	20 footcandles
Storage	1'x4' suspended industrial.	Occupancy sensor with manual switch.	10-30 footcandles

Emergency Power

- A new emergency power system generator will replace the existing generator located on the first floor. The new generator will be located outside of the building and will be sized for existing emergency loads and new construction, including the new elevator(s).
- All components of the emergency branch shall be fully and selectively coordinated to comply with NEC requirements. This may be done with new fusible branch panelboards.
- The following equipment shall be connected to the generator:
  - Exit and Egress Lighting (via UL924 control units)
  - Fire Alarm
  - Emergency Voice/Alarm Communication Systems
  - Elevator Motor and Cab Lighting
  - DDC Panels
  - Mechanical Pumps as needed or determined by User Agency
  - Sump Pumps
  - Technology (I.T.) Equipment and associated Cooling
  - Miscellaneous Load as required by the User Agency

Fire Alarm

- The existing addressable fire alarm system will be utilized for new construction devices. System initiation will consist of individually addressable smoke and heat detectors, as well as addressable manual pull stations. All fire alarm system wiring will be installed in ½" conduit dedicated to the fire alarm system; free-air wiring may be specified if the User Agency and DFD are in agreement.
- Systems audible and visual notification levels will be ADA and NFPA compliant.
- Additional notification, strobe and audio will be provided in rooms based on ADA identification and as coordinated with User Agency requirements.
- Manual pull stations shall be provided with plastic lift cover at all building exits and stairwells.

Electronic Access Control

- The existing electronic access control system will be used for control devices at User-Agency identified doorways of new construction.
- Electronic access control system cabling for these devices will be furnished and installed by this Contractor.
- Where doors are equipped with automatic door operators and electronic access control functionality, automatic door operator activation paddles will be wired as inputs to the electronic access control system and automatic door operators will be wired as outputs from the electronic access control system (for activation switching purposes), and the electronic access control system will be configured and programmed to activate the automatic door operator only if the door is unlocked.
- Any licensing, configuring, programming, testing, adjusting, and commissioning associated with new electronic access control system will be completed by this Contractor.
- Cable will be installed "free-air" with pathways for all electronic access control system cabling consisting of ½" conduit to above accessible ceiling, J-hooks and cable tray above accessible ceiling.

Video Surveillance

- Video surveillance cameras will transmit video to User Agency's video management software server(s) via User Agency's Ethernet switches and Ethernet network for recording, viewing, and management of video. All necessary licensing, configuring, programming, testing, adjusting, and commissioning associated with new video surveillance cameras will be completed by this Contractor.
- Cable pathways for all video surveillance cabling will consist of conduit, J-hooks and cable tray. Contractor shall size back boxes per specified minimum size, manufacturer's recommendations and applicable codes and provide larger conduit where required to accommodate quantity and size of associated cables.
- Horizontal video surveillance camera cabling from camera locations to patch panel(s) in technology room(s) will consist of one (1) Category 6 UTP copper cable at each camera location.

Two-Way Emergency Communication System

- Two-way emergency communication systems complying with IBC sections 1009.8.1 and 1009.8.2 shall be provided at the landings serving each elevator or bank of elevators on each accessible floor that is one or more stories above or below the level of exit discharge. Where two-way emergency communication systems are provided within areas of refuge (IBC section 1009.6.5), two-way emergency communication systems are not required at the landings serving the elevator(s).

- The Internal Call System shall provide communication between each required location and the Fire Command Center or a Central Control Point location. Visual indicators on the Master Control Station (located at the Central Control Point) will notify rescue personnel which Remote Call Station(s) need assistance. The Master Control Station must allow rescue personnel to speak to all Remote Call Stations simultaneously or to individual Remote Call Stations.
- Upon activation of the emergency pushbutton at a Remote Call Station, a call will be automatically placed to the Master Control Station. If no one answers at the Master Control Station, the External Call System shall dial a secondary location outside the building to activate two-way off-site person-to-person voice communications. The External Call System shall have the ability to be programmed with a minimum of two (2) emergency phone numbers, which will be coordinated with the User Agency.
- Wiring from the Master Control Station to the Remote Call Stations shall be composed of two (2) twisted, shielded pairs in either 22 or 24 AWG wire or as recommended by the manufacturer.

VOLUME 2: HEIDE HALL

Section 4

SPECIAL PLANNING ISSUES
SUSTAINABILITY GUIDELINES

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Section 4
SPECIAL PLANNING ISSUES

Environmental Impact Statement

- Winther and Heide Halls will likely require either a Type II or Type III Environmental Impact Statement. The EIS will be recorded by the University after enumeration of the project.

Historic Preservation

- Winther and Heide Halls are not on local, state or national historic preservation registers.

Zoning

- The zoning for both projects will remain unchanged. No rezoning or conditional use will be required.

Commissioning Level

- A level 1 commissioning is required for the Winther and Heide Hall projects and is included in the A/E scope of services.

SUSTAINABILITY GUIDELINES- FRAMEWORK FOR DESIGN EXCELLENCE MEASURE NARRATIVES

The Heide Hall project will be a Tier 2 and will follow the requirements for both Tier 1 and Tier 2.

Framework for Design Excellence Measure 1: Designing for Integration

- Meeting at the start of design
  - A kick off meeting was held on 10/02/2020. The parties involved included UW-Whitewater, UW- Systems, DFD and the design teams representatives of Somerville, Thunderbird and Kapur Inc. Subsequent meetings will be held during preliminary design and final design to track the implementation of the COTE measures.
- Narrative
  - A narrative has been provided for each measure that demonstrates how the sustainability guidelines will be incorporated into the project, but ongoing research and design collaboration between the design team, DFD, UW-Systems and UW-Whitewater will be key to the successful implementation of these measures.
- We have referenced AIA's Designing for Integration Standards and the 10 COTE measures.

Framework for Design Excellence Measure 2: Designing for Equitable Communities

- Track and document project's Walk Score
  - Winther and Heide Hall have a Walk Score of 42 and a Bike Score of 55. See the attached documentation for this at the end of this section.
- Track and document the project's level of engagement using Arnstein's Ladder of Citizen Participation Referenced AIA's Designing for Integration Standards
  - As noted previously, the project will require either a Type II or Type III Environmental Impact Statement. As part of this process, local citizens will be informed and will be allowed to participate in the process of reviewing the design of the project. It is anticipated that the addition to Heide will have a minimal impact on the built environment and surrounding neighborhood. A new site design with revised grading improve site accessibility and maintain a connection to the central campus. In addition, new landscaping will tie to nature and soften the edge between impervious surfaces and the building. All documentation for the environmental impact statement and associated citizen involvement will be tracked in future design reports.

- COTE Super Spreadsheet
  - In preliminary design, the design team will work further with UW-Whitewater in coordination with the COTE Super Spreadsheet to anticipate the pounds of carbon dioxide emitted per occupant per year and will determine the average commuting distance and average mpg of the building's occupants.
- Bike Racks
  - Provide bike racks within 100 yards of the project's primary entry. There are currently movable bike racks located adjacent to the northwest entry to Heide. According to staff, these bike racks meet the current demand and the addition will not adversely affect the occupant load of the building. That said, additional bike racks can be added in the future if demand shifts.
- Mother's Room
  - Provide one mother's room per the first 200 occupants and one per 200 occupants thereafter. Rooms will be provided on the first and second floors of the renovated core areas; however, we changed the name and function of the spaces to be more inclusive. In lieu of calling it a mother's room, we named it a health room. The health room will provide the typical amenities of a lactation space but will be available for use by all building occupants. In example, the space could also be used for dispersing medications such as insulin.
- Wellness Room
  - Provide one wellness room. We provided a wellness room on the third floor in the renovated core area. It will be used as a quiet meditation space with access to natural light via windows. The room will have a higher level of acoustics to help separate the space from the adjoining spaces. The space will also be used by families to provide a little more privacy for parents and their children that may be visiting the campus.
- Encouraged Measures-
  - Parking is currently shared amongst several buildings on campus and will not be modified as part of this project.
  - Electric Vehicle Charging Stations; The University currently has 1 electric vehicle charging station installed at the north end of lot 14. The University is reviewing the overall campus charging station locations, and the preference is no additional charging stations as part of the project.
  - The project is adjacent to a major pedestrian thoroughfare on campus, utilized by walkers, bikers, joggers, etc. to connect to other areas of campus.
  - On-site Parking- Provide 25% reduction of on-site required parking space compared to local zoning requirements. Although future master plan layouts show a reduction in parking in order to accommodate future buildings, this project will note include any new or resurfaced parking lots.
  - All applicable site lighting will be replaced with new LED energy efficient light fixtures that will provide ample lighting for site safety and wayfinding.
  - Landscaping will be added along the new addition and revised sidewalks that surround Heide.

Framework for Design Excellence Measure 3: Designing for Ecology

- Dark Sky Compliance
  - All new LED site lighting will include cut off fixtures to minimize light pollution beyond the extents of the site.
- Tree Survey Data
  - The completed site survey shows the location of existing trees and vegetation. The new site design will minimize the removal of trees and vegetation where possible.
- Bird Collision Deterrence
  - The new design will incorporate film or frit in locations where the glazing exceeds 20%. This could include custom laser cut film that creates a design that is specific to and reflective of the Heide Hall brand and design.

- Reduce Urban Heat Island effect
  - Although a new parking lot is not a part of the project scope, new walkways will be paved in concrete to decrease the SRI of hard surfaces and adjacent landscaping will help reduce the heat island effect.
- Native Vegetation
  - The new landscape design will include native landscape plantings that are water-efficient, durable and salt tolerant to minimize ongoing maintenance and provide longevity to the landscaping that envelopes the building. This will also include landscaping that integrates species that support pollinators.
- Wisconsin Environmental Policy Act (WEPA)
  - Landscape will be updated during the project in select areas, along with the re-use of existing benches, and new site furnishings may be added based on programming.

Framework for Design Excellence Measure 4: Designing for Water

- Define the project boundary
  - The limits of the project boundary are shown on the survey and proposed site plan included in the appendix of the report.
- Oil and Grease Control
  - A kitchen grease interceptor is not anticipated for this project.
- Reduce Total Suspended Solids
  - The project area does not affect the parking lots, the major producers of total suspended solids. The renovated site will look to ease the slope of and resurface the concrete sidewalks.
- Safe Overflow
  - Low spots currently exist on the project site, and the site is surrounded on all sides by development, but avenues will be investigated to remedy any area without safe overland flow.
- Indoor Water Efficiency
  - The plumbing fixtures will be provided with the following water flow: Water closets 1.28 gpf, urinals .5 gpf and lavatories .5 gpm. The water softeners will be high efficiency units.
- Peak discharge
  - The site areas are confined, especially in the lower elevations where water gathers; bioinfiltration cells or underground detention will be investigated for peak discharge control.
- Infiltration and stormwater volume control
  - Soils will be analyzed for infiltration properties and the possibility of bioinfiltration cells or underground will be investigated for stormwater volume control.
- Restrict potable water for permanent irrigation
  - No irrigation is proposed on the project.

Framework for Design Excellence Measure 5: Designing for Economy

- Register and participate in Focus on Energy Program
  - Focus On Energy will be engaged during preliminary design (next phase of the project). Our engineers will work in collaboration with FOE and the design assist program from the inception of the systems design.

- Use modeling to estimate savings and greenhouse gas emissions
  - Energy modeling using the HAP by Carrier energy modeling program will be done during preliminary design to ensure energy savings and reductions in greenhouse gas emissions. ASHRAE 90.1-2016 will be the energy standard for measuring the energy modeling.
- Right sized program
  - During the programming process, the size of the addition was limited to efficiently house the elevator cores and restrooms. There is residual space on each floor for soft seating, but the proportions of the addition were closely studied to effectively minimize the impact to the site and budget.

Framework for Design Excellence Measure 6: Designing for Energy

  - The design will meet or exceed the requirements of ANSI/ ASHRAE/IESNA Standard 90.1-2016 and the compliance pathways
- Window to Wall Ratio
  - The design was conscious of the window to wall ratio to ensure thermal efficiency, while allowing for increased opportunities to draw in natural light. Areas of high glazing were designated to selective areas high traffic/ high use areas where the benefits of natural light would be most advantageous. The proposed window to wall ratios for Heide Hall are:
    - North- 6% (Guidelines allow up to 40%)
    - South- 8% (Guidelines allow up to 30%)
    - East- 24% (Guidelines allow up to 30%)
    - West- 27% (Guidelines allow up to 30%)
- Energy Modeling
  - As noted in measure 5, HAP energy modeling will be completed to evaluate the MEP systems, materials and fenestration in a life cycle analysis. The EUI chart as listed in the guidelines for a climate 5A zone will be followed to minimize energy consumption. 60/65 will be the maximum for EUI for a majority of spaces, meeting / exceeding the classroom / office standard.
- Chlorofluorocarbon (CFC) based refrigerants
  - The CFC's will not be used in new heating, ventilation, air-conditioning and refrigeration systems. All new mechanical cooling will be served by the campus chilled water system and will not use CFC based refrigerants.
- Building-level energy meters
  - The intent will be to reuse existing meters or provide new as required to track energy usage at one-month intervals for electricity, natural gas, chilled water and steam. The building currently has the capacity to meter these systems on a monthly basis.
- CxA- Monthly utility data verification
  - Somerville will be the commissioning agent and will track monthly utility data for the first 12 months, providing 6- and 12-month reports to compare to design targets established during preliminary and final design by the design team.
- On-site renewable energy
  - During preliminary design, we will further explore the opportunity to meet the 1% on-site renewable energy requirement. At this time, we feel that Photovoltaic (PV) solar panels will be the most applicable source of renewable energy, but further investigation will be required during preliminary design.

- Solar- ready project
  - We have highlighted the area on the roof plan located in the appendix of this report that could be designated as a solar ready application. This would include space to the south of our new mechanical penthouse that would maximize southern exposure. Additionally, wall space within the electrical room on the first floor will be designated for future PV inverters and space will be allocated in the main electrical panels.
- Building air tightness
  - Somerville will be working in coordination with a consultant (Building Envelope Professionals Group, LLC) throughout design and construction to ensure that new addition walls, existing and new roofing are airtight and devoid of moisture issues.
- On-site battery storage
  - Battery storage can be discussed during preliminary design; however, the current intent is to install a new natural gas generator that will sized to provide backup power for emergency systems, elevators, and IT equipment.

Framework for Design Excellence Measure 7: Designing for Wellness

- Smoke-Free Environment
  - The UW-Whitewater campus is already a smoke-free and vape-free campus
- Biophilia
  - The A/E and MEP design team will hold a meeting during preliminary design with the DFD PM, UWS representative and UW-Whitewater stakeholders to discuss how biophilia can be integrated into the design.
- Daylight
  - The new design will provide a well-lit space with floor to ceiling glass within the high traffic and seating areas of the addition.
- Encouraged Measures (Acoustics)
  - The design will incorporate measures to reduce sound transmission and reverberation. The combination of high NRC acoustical ceilings, insulated walls, soft furnishings and carpeting will assist in accomplishing this standard.

COTE Measure 8: Designing for Resources

- Exotic hardwood prohibition
  - The project will not use exotic hardwoods and wood will likely be limited to interior use. We anticipate at this time that the species of wood used would likely be a plain sliced maple that is locally sourced.
- Life cycle assessment tracks embodied carbon
  - A life cycle assessment will be conducted to track the embodied carbon of the new and renovated construction. As noted in measure 5, the addition proportions were minimized to work effectively with the site. The renovated core area will reduce the impact of high embodied energy that typically accompanies ground up new construction.
- Minimum of 20 products with environmental product declarations
  - Prior to the specification process, at least twenty products will be selected from the EPD database and discussed with the DFD team.

- Encouraged measures:
  - Steel usage
    - United States sourced steel with decreased mass
  - Concrete usage
    - Reduce the amount of Portland cement with SCM content and decreased mass.
  - Insulation
    - Although retrofitting the exteriors will likely require high R-value insulation to minimize wall depth and provide thermal efficiency, interior insulation options with low embodied carbon will be explored.
  - Wood sourcing
    - Plain-sliced maple will be locally harvested and milled in Wisconsin.
  - Local and regional priority
    - To the furthest extent possible, products within a 500 mile radius will be specified to reduce embodied energy tied to long transport distances.

Framework for Design Excellence Measure 9: Designing for Change

- Reuse reporting
  - The benefit of this project is that the limited addition, renovation of core spaces, and window/ roof/ electrical upgrades will address the immediate needs of the building, thereby allowing most of the building to remain unchanged.
- Risk assessment
  - Given the robustness of the existing building structure and exterior cladding, the existing building should provide enough support recovery space in the event of an emergency. Many of the existing corridors have minimal amounts of glass and are constructed of CMU masonry. In addition, a new natural gas generator will be sized to support the life safety systems, including the operation of the new elevators.
- Resilience
  - Landscape plantings consisting of low maintenance, drought and salt tolerant, hardy native and adaptive native plant material with deep anchor roots and fibrous shallow roots will assist to stabilize and bind soil in new landscaped locations. The plantings will deter pedestrians and minimize erosion impacts during high precipitation rain events while providing aesthetically pleasing buffers between the circulation routes and building façade.
- Encouraged measures:

Renewable-Ready

  - As outlined earlier, the roof plan, provided in Section 8, shows the applicable location for solar photovoltaic arrays. The roof structures will be further explored to account for the framing and deadweight of (future or planned for array(s), along with proper roofing considerations (penetrations, flashing etc.).

Interchangeability

  - The renovated spaces and addition will provide the maximum extent of flexibility that is feasible. We understand and fully expect that the space use will change over time. To accommodate current and future needs, movable furniture, storage systems and the integration of technology will allow the end users to adapt the spaces to fit their desired use.

Framework for Design Excellence Measure 10: Designing for Discovery

- CxA to track utilities 6,12, and 18 months
  - As noted in measure 6
- Meeting to discuss lessons learned
  - Within 14 days of substantial completion, a meeting will be held by all applicable parties to discuss lessons learned and provide feedback on the following:
    - DFD specifications and guidelines
    - Identification of effective strategies
    - Identification of areas needing extra effort
- Encourage Measures:
  - Pre-occupancy and post-occupancy evaluation
    - A pre-occupancy and post-occupancy evaluation will be held to understand how the agency's current facility is performing and how the renovated space has improved or adversely changed the way occupants use the various spaces.
  - Educational tours/ training
    - During the closeout process, meeting(s) will be held to ensure building management, occupants and visitors understand roles and responsibilities for maintaining building performance. This is intended to be an open dialog between the design team, construction team and end users to not only discuss the design intent and operation of the building, but also ways of integrating lessons learned on future projects.

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VOLUME 2: HEIDE HALL

Section 5

PRE-DESIGN OPINION OF PROBABLE COST

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Section 5

WINTHER & HEIDE HALLS
PRE-DESIGN OPINION OF PROBABLE COST (OPC)

Item Description	Project Budget (Per Enumeration)		Project Budget (Target)		Project Budget (Per Design)	
Construction		$46,450,000		$37,171,000		$31,860,900 (excludes hazardous materials)
Hazardous Materials		0		$250,000		$400,000
Total Construction		$45,450,000		$37,421,000		$32,260,900
Design Fees (Basic)		$3,923,000		$3,230,000		$2,626,500
Design Fees (Other)		$800,000		$247,000		$827,100
Total Design Fees		$4,723,000		$3,477,000		$3,453,600
Contingency	10.00%	$4,545,000	10.00%	$3,742,000	10.00%	$3,226,090
Management Fees	4.00%	$2,000,000	4.00%	$1,647,000	4.00%	$1,424,258
Furnishings, Fixtures & Equipment	6.00%	$2,727,000	5.91%	$2,213,000	6.00%	$1,924,170
Total Budget Estimate		**$59,445,000**		**$48,500,000**		**$42,289,018**

PRE-DESIGN OPC - WINTHER HALL

		Area	Unit Price	Subtotal
Construction				
New Construction (Additions)	Demolition	2,000 GSF	$12.00 / SF	$24,000
	General Construction	8,942 GSF	$150.00 / SF	$1,341,300
	Fire Protection	8,942 GSF	$4.00 / SF	$35,768
	Plumbing	8,942 GSF	$50.00 / SF	$447,100
	HVAC	8,942 GSF	$47.00 / SF	$420,274
	Electrical	8,942 GSF	$44.00 / SF	$393,448
	New Elevator Equipment & Hoistway	2 EA	$270,000 EA	$540,000
	Total (New Construction)	**8,942 GSF**	**$297.68 / SF**	**$2,661,890**
Renovation	**Demolition**	**79,777 GSF**	**$11.75 / SF**	**$937,380**
	Renovation			
	General Construction	79,777 GSF	$81.00 / SF	$6,461,937
	Fire Protection	79,777 GSF	$4.00 / SF	$319,108
	Plumbing	79,777 GSF	$4.25 / SF	$339,052
	HVAC	79,777 GSF	$47.00 / SF	$3,749,519
	Electrical	79,777 GSF	$29.00 / SF	$2,313,533
	Roofing Replacement	23,500 GSF	$25.00 / SF	$587,500
	Cleaning / Repair of Exterior Materials & Surfaces	1 EA	$100,000 EA	$100,000
	Total (Renovation)	**79,777 GSF**	**$185.62 / SF**	**$14,808,029**
Special Conditions	Hazardous Material Abatement (Winther and Heide)			$400,000
	Steam and Condensate replacement to pit 28			$85,000
	Sitework Grade Modifications at Ground Floor Entries (Winther and Heide)			$1,410,000
Subtotal				**$19,364,919**
General Conditions			12%	$2,323,790
Construction Subtotal				**$21,688,709**

Design Phase Contingency (lower to 5% in Final Design phase)		10%	$2,168,900
Opinion of Probable Construction Cost (2020)	$268.91 / SF		$23,857,609
Opinion of Probable Construction Cost (2022)	$296.48 / SF	5%	$26,303,014

Total Opinion of Probable Construction Cost - Winther Hall	**$26,303,014**
Heide Hall Construction Cost	**$5,957,886**
Grand Total - Winther and Heide Halls Opinion of Probable Construction Cost	**$32,260,900**

PRE-DESIGN OPC - HEIDE HALL

		Area	Unit Price	Subtotal
Construction				
New Construction (Additions)	Demolition	3,000 GSF	$5 / SF	$15,000
	General Construction	7,860 GSF	$254 / SF	$1,996,440
	Fire Protection	7,860 GSF	$7 / SF	$55,020
	Plumbing	7,860 GSF	$50 / SF	$393,000
	HVAC	7,860 GSF	$46 / SF	$361,560
	Electrical	7,860 GSF	$45 / SF	$353,700
	Electrical Service and Equipment			$300,000
	New Elevator Equipment & Hoistway	2 EA	$230,000 EA	$460,000
	Total (New Construction)	**7,860 GSF**	**$403.91 / SF**	**$3,174,720**
Renovation	**Demolition**	**1,950 GSF**	**$12.00 / SF**	**$23,400**
	Renovation			
	General Construction	1,950 GSF	$225 / SF	$438,750
	Plumbing	1,950 GSF	$6 / SF	$11,700
	HVAC	1,950 GSF	$35 / SF	$68,250
	Electrical	1,950 GSF	$30 / SF	$58,500
	Roofing Replacement	26,000 GSF	$21 / SF	$546,000
	Cleaning / Repair of Exterior Materials & Surfaces	1 EA	$65,000 EA	$65,000
	Total (Renovation)	**1,950 GSF**	**$621 / SF**	**$1,211,600**
Subtotal				**$4,386,320**
General Conditions			12%	$526,358
Construction Subtotal				**$4,912,678**

Design Phase Contingency (lower to 5% in Final Design phase)		10%	$491,300
Opinion of Probable Construction Cost (2020)	$550.86		$5,403,978
Opinion of Probable Construction Cost (2022)	$607.33	5%	$5,957,886

Total Opinion of Probable Construction Cost - Heide Hall	**$5,957,886**
Winther Hall Construction Cost	**$26,303,014**
Grand Total	**$32,260,900**

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VOLUME 2: HEIDE HALL

Section 6

SCHEDULE

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Section 6

SCHEDULE FOR WINTHER & HEIDE HALLS

The following is an estimated timetable through the remainder of design and construction.

Major Milestone / Task	Estimated # of Weeks Between Tasks	
Pre-Design Report (Draft)		12/22/20
Pre-Design Report Review Comments		02/08/21
Pre-Design Report Final		02/23/21
A/E Receives Contract and Notice to Proceed (Based on Funding Availability)	TBD	05/24/2021
SBC Approval		07/15/2021
Preliminary Design - Design Report, Summary & Appendix	36	02/01/2022
Preliminary Review Comments Due	4	03/01/2022
Preliminary Review Meeting in Madison	2	03/15/2022
BOR / SBC authority to construct	TBD	04/13/2022
Final Design Documents Submittal	18	08/17/2022
Final Review Comments Due	4	09/14/2022
Final Review Meeting in Madison	2	09/28/2022
Reproduction of Documents for Bidding	3	10/19/2022
Bidding	6	10/20/2022 - 12/01/2022
Notice to Proceed		01/22/23
Phase I - Heide Addition	21	02/21/23 - 07/20/23
Phase 2 - Heide Renovation & Vacation of Winther Hall	10	05/23/23 - 08/01/23
Phase 3 - Winther Hall	66	08/01/23 - 11/04/24
Project Closeout and Commissioning	8	01/06/25

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VOLUME 2: HEIDE HALL

Section 7

ROOM DATA SHEETS

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Section 7

ROOM DATA SHEETS - TABLE OF CONTENTS

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RDS–MULTIPURPOSE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Multipurpose	ROOM NUMBER	Heide Hall – 1.1
ROOM TYPE	STUDY AREA	ROOM SIZE (ASF)	343
ROOM USERS	Students	ROOM DIMENSIONS	13'-8" x 25'-0"
ADJACENCIES	Public Corridor	HOURS USED	24/7
FUNCTION	Student study area with soft seating		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	NONE		
NATURAL LIGHT	Borrowed lites into adjacent tall lecture hall atrium space	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	NONE		
SPECIAL	Soft furniture for group activity / study area		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–HEALTH			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Health	ROOM NUMBER	Heide Hall – 1.2
ROOM TYPE	GENERAL USE	ROOM SIZE (ASF)	90
ROOM USERS	Students, faculty and visitors	ROOM DIMENSIONS	9'-0" x 10'-0"
ADJACENCIES	Public Corridor	HOURS USED	24/7
FUNCTION	Lactation room, personal health		
ARCHITECTURAL			
FLOORS & BASE MTL	Resilient w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	Plastic laminate upper and lower casework		
SPECIAL	N/A		
PLUMBING			
SINKS	Stainless steel lay-in		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL			
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	None
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–GROUP STUDY			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Group Study	ROOM NUMBER	Heide Hall – 1.3
ROOM TYPE	General Use	ROOM SIZE (ASF)	76
ROOM USERS	Students	ROOM DIMENSIONS	7'-7" x 10'-0"
ADJACENCIES	Public Corridor	HOURS USED	24/7
FUNCTION	Multipurpose open study area		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	NONE
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–WELLNESS			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Wellness	ROOM NUMBER	Heide Hall – 3.1
ROOM TYPE	General use	ROOM SIZE (ASF)	90
ROOM USERS	Students, faculty and visitors	ROOM DIMENSIONS	9'-0" x 10'-0"
ADJACENCIES	Public Corridor	HOURS USED	
FUNCTION	Personal health		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	Borrowed Lite	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–STUDY LOUNGE			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Study lounge	ROOM NUMBER	Heide Hall – 3.2
ROOM TYPE	Study area	ROOM SIZE (ASF)	505
ROOM USERS	Students	ROOM DIMENSIONS	Varies
ADJACENCIES	Public Corridor	HOURS USED	24/7
FUNCTION	Student study area with soft seating		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	NONE		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	Soft furniture for group activity / study area		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–TOILET ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	All Gender Toilet Room	ROOM NUMBER	Heide Hall – 7.1
ROOM TYPE	Toilet Room	ROOM SIZE (ASF)	428
ROOM USERS	Students, faculty, visitors	ROOM DIMENSIONS	19'-10" x 25'-0"
ADJACENCIES		HOURS USED	24/7
FUNCTION	Toilet room for any student, staff or visitor		
ARCHITECTURAL			
FLOORS & BASE MTL	Porcelain tile with tile base		
WALLS & STC	Stud Walls with porcelain tile full height minimum STC 49		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	NONE	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	Obscure glass
FIXED CASEWORK			
SPECIAL	Grab bars at ADA and ambulatory stalls		
PLUMBING			
SINKS	Multi-station wash basin		
TOILET	ADA wall hung with manual flush valve		
EWC	High-low with bottle filler near toilet rooms		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	75 CFM Exhaust per fixture		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–JANITOR ROOM			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Janitor Room	ROOM NUMBER	Heide Hall – 7.2
ROOM TYPE	Custodial	ROOM SIZE (ASF)	53
ROOM USERS	Custodial Staff	ROOM DIMENSIONS	7'-0" x 7'-6"
ADJACENCIES	All gender toilet room	HOURS USED	M-F 8am – 5pm
FUNCTION	Storage for custodial equipment and supplies		
ARCHITECTURAL			
FLOORS & BASE MTL	Porcelain tile with tile base		
WALLS & STC	Painted gypsum board w/ FRP panel behind mop basin		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	3'-0" Wood Door	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	NONE	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	Floor mount mop basin		
HVAC			
HEATING	None		
COOLING	None		
VENTILATION	Exhaust as required		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	Dimmable LED recessed troffer. Local Controls.	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Vestibule	ROOM NUMBER	Heide Hall – 7.3
ROOM TYPE		ROOM SIZE (ASF)	290
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	16'-8" x 17'-5"
ADJACENCIES	Lobby	HOURS USED	24/7
FUNCTION	Entrance to Building		
ARCHITECTURAL			
FLOORS & BASE MTL	Walk-off Carpet Tile		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	10'-0" Acoustic ceiling		
DOOR SIZE & MAT'L	Multiple 3'-0" Aluminum	DOOR VISION PANEL	Full glass
DOOR HARDWARE	TBD, Auto door opener		
NATURAL LIGHT	Fixed storefront system	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	NONE		
VENTILATION	NONE		
ELECTRICAL			
POWER	Power for auto door operator, convenience outlets		
LIGHTING	LED fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	Yes	KEYPD/PROX CD/REX	Yes
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	TBD	INTEGRATION REQ'T	TBD
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Elevator (2 required)	ROOM NUMBER	Heide Hall – 7.4
ROOM TYPE		ROOM SIZE (ASF)	
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	
ADJACENCIES	Lobby, Floor Lounge, Stairs	HOURS USED	24/7
FUNCTION	Vertical circulation through building		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet Tile		
WALLS & STC	Masonry Shaft Walls – two hour rated		
CEILING MAT'L & HT	TBD		
DOOR SIZE & MAT'L	TBD	DOOR VISION PANEL	NONE
DOOR HARDWARE	N/A		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	Size to accommodate stretcher		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	NONE		
COOLING	NONE		
VENTILATION	NONE		
ELECTRICAL			
POWER	Power for elevator. GFI Service receptacles		
LIGHTING	LED fixture	LTG MOTION SENSOR	No
SPECIAL			
FIRE ALARM/DET.			
	Smoke and heat detectors to meet code		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	(1) UTP	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	Yes	KEYPD/PROX CD/REX	TBD
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE		INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Elevator Equipment	ROOM NUMBER	Heide Hall – 7.5
ROOM TYPE		ROOM SIZE (ASF)	
ROOM USERS	Maintenance Personnel	ROOM DIMENSIONS	
ADJACENCIES	Elevator	HOURS USED	24/7
FUNCTION	Equipment and panel room for Elevators		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed Concrete		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	Exposed structure - painted		
DOOR SIZE & MAT'L	3'-0" Wood door – rated 2 hour	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	NONE		
COOLING	104°F +/-2°F, 60% RH Maximum		
VENTILATION	Exhaust as required		
ELECTRICAL			
POWER	Power for elevator. GFI Service receptacles		
LIGHTING	LED strip fixture	LTG MOTION SENSOR	No
SPECIAL			
FIRE ALARM/DET.			
	Smoke and heat detectors to meet code		
COMMUNICATIONS			
VOICE (TELEPHONE)	As required for elevators	AUDIO	N/A
DATA (COMPUTER)	As required for elevators	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–LOBBY			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Lobby	ROOM NUMBER	Heide Hall – 7.6
ROOM TYPE	Meeting / study space	ROOM SIZE (ASF)	VARIES
ROOM USERS	Students and faculty	ROOM DIMENSIONS	Varies
ADJACENCIES		HOURS USED	24/7
FUNCTION	Circulation around elevator with soft seating areas for students to study and collaborate between classes		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile w/ Vinyl Base		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	Acoustic Ceiling 9'-0" a.f.f.		
DOOR SIZE & MAT'L	NONE	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	Fixed Curtainwall System	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	N/A		
SPECIAL	Soft Furniture		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience Outlets		
LIGHTING	LED varies depending on space size and function. Local Controls	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	Flat panel monitors at select locations	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	TBD	NC RATING	TBD
MOVABLE EQMT			
TYPE & SIZE	TBD	CONNECTIONS REQ'D	TBD
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	Stairs - Existing	ROOM NUMBER	Heide Hall – 7.7
ROOM TYPE		ROOM SIZE (ASF)	VARIES
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	Varies
ADJACENCIES	Addition	HOURS USED	24/7
FUNCTION	Vertical circulation through building		
ARCHITECTURAL			
FLOORS & BASE MTL	Rubber Flooring		
WALLS & STC	Painted concrete		
CEILING MAT'L & HT	Acoustic ceiling		
DOOR SIZE & MAT'L	3'-0" Wood Interior, rated	DOOR VISION PANEL	Narrow Lite
DOOR HARDWARE	TBD		
NATURAL LIGHT	Fixed Storefront System	DAYLIGHT CONTROL	TBD
FIXED CASEWORK	N/A		
SPECIAL	Provide magnetic hold open for doors		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience receptacle at each landing		
LIGHTING	LED lighting, emergency powered	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification device		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–CIRCULATION			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	New Corridors	ROOM NUMBER	Heide Hall – 7.8
ROOM TYPE		ROOM SIZE (ASF)	VARIES
ROOM USERS	Students, Staff and Visitors	ROOM DIMENSIONS	Varies
ADJACENCIES		HOURS USED	24/7
FUNCTION	Circulation space throughout building		
ARCHITECTURAL			
FLOORS & BASE MTL	Carpet tile flooring with vinyl base		
WALLS & STC	Painted gypsum board with minimum STC 49		
CEILING MAT'L & HT	Suspended acoustic ceiling tile		
DOOR SIZE & MAT'L	N/A	DOOR VISION PANEL	N/A
DOOR HARDWARE	N/A		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	N/A
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	N/A		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	76°F +/- 2°F Occupied, 82°F +/- 2°F Unoccupied, 60% RH Maximum		
VENTILATION	Ventilation rates will be based on ASHRAE 62.1. Where the ASHRAE 62.1 calculation is less than 7.5 CFM per person for a space, the ventilation rate will be 7.5 CFM per person. Where the ASHRAE 62.1 calculation is above 15 CFM per person for a space, the ventilation rate will be 15 CFM per person		
ELECTRICAL			
POWER	Convenience receptacle as needed		
LIGHTING	LED lighting	LTG MOTION SENSOR	Yes
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

RDS–MECHANICAL			
DFD PROJECT NO.	19I1L	DATE:	01/04/2021
ROOM NAME	HVAC AHU Rooms	ROOM NUMBER	Heide Hall – 7.9
ROOM TYPE	Penthouse mechanical Room	ROOM SIZE (ASF)	375
ROOM USERS	Facilities personnel	ROOM DIMENSIONS	19'-10" x 25'-0"
ADJACENCIES	New Addition	HOURS USED	24/7
FUNCTION	Air Handling unit and associated equipment		
ARCHITECTURAL			
FLOORS & BASE MTL	Sealed concrete		
WALLS & STC	Painted gypsum board		
CEILING MAT'L & HT	Painted exposed structure		
DOOR SIZE & MAT'L	3'-0" Door H.M.	DOOR VISION PANEL	NONE
DOOR HARDWARE	TBD		
NATURAL LIGHT	N/A	DAYLIGHT CONTROL	NONE
FIXED CASEWORK	N/A		
SPECIAL	N/A		
PLUMBING			
SINKS	N/A		
GASES / OTHER	Floor Drains, Hub Drains, hose bibb		
HVAC			
HEATING	68°F +/- 2°F Occupied, 62°F +/- 2°F Unoccupied, No Humidification		
COOLING	None		
VENTILATION	None		
ELECTRICAL			
POWER	Convenience receptacle as needed. Power for equipment		
LIGHTING	LED lighting – strip fixture	LTG MOTION SENSOR	No
SPECIAL	N/A		
FIRE ALARM/DET.			
	Notification and smoke devices		
COMMUNICATIONS			
VOICE (TELEPHONE)	N/A	AUDIO	N/A
DATA (COMPUTER)	N/A	SOUND SYSTEM	N/A
VIDEO	N/A	PA SYSTEM	N/A
CABLE TV	N/A	INTERCOM	N/A
CAMPUS CLOSE TV	N/A	CLOCK	N/A
SECURITY			
DOOR CONTROL	N/A	KEYPD/PROX CD/REX	N/A
INTRUSION DETECTION	N/A		
VIDEO SURVEILLANCE	N/A	INTEGRATION REQ'T	N/A
AUDIO/VISUAL			
SCREENS	N/A	VIDEO PROJECTOR	N/A
OTHER	N/A		
ACOUSTICS			
DESCRIPTION	N/A	NC RATING	N/A
MOVABLE EQMT			
TYPE & SIZE	N/A	CONNECTIONS REQ'D	N/A
REMARKS			

VOLUME 2: HEIDE HALL

Section 8

DRAWINGS & RENDERINGS

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Install a new drive lane to increase site accessibility and building access

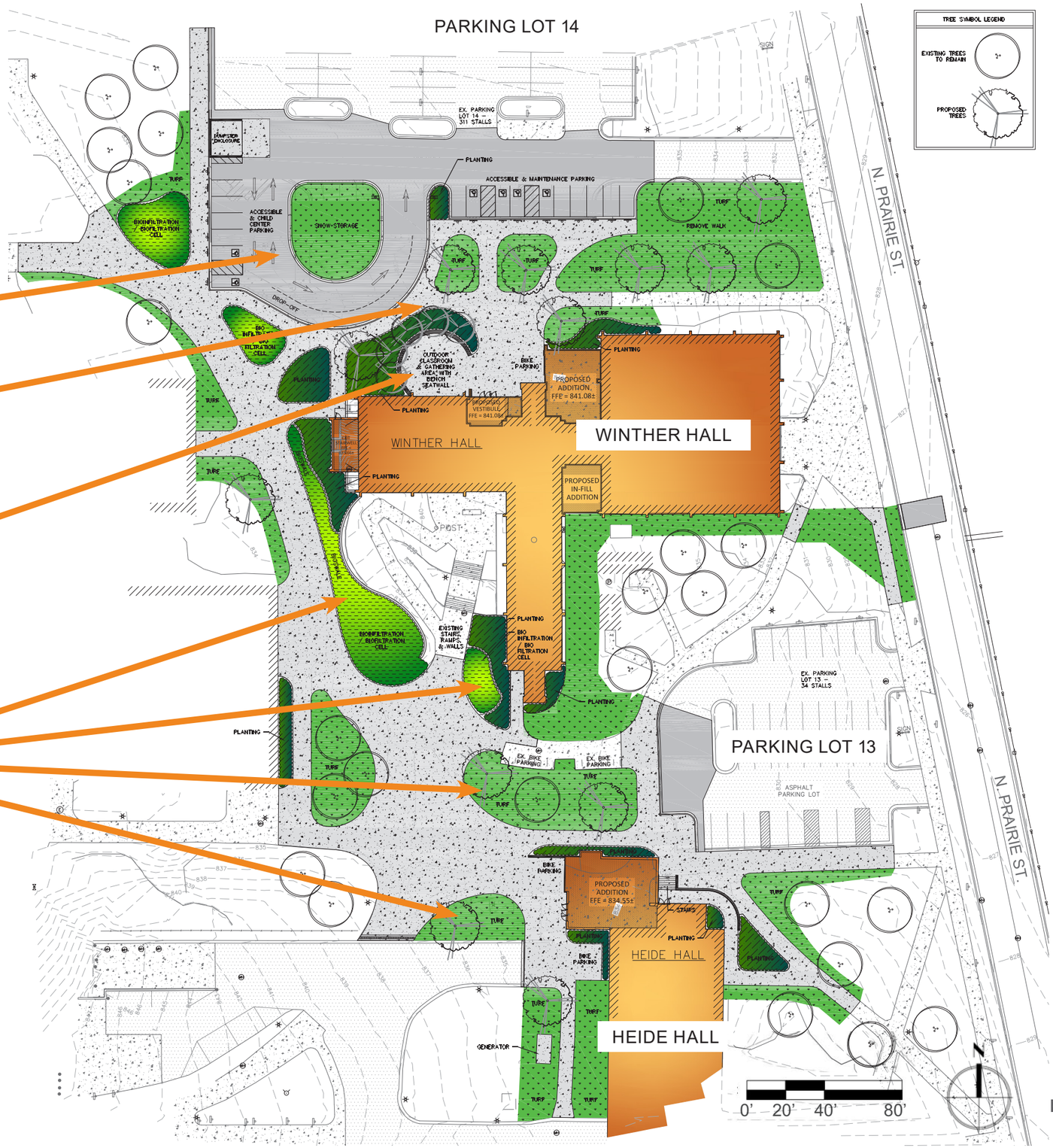
Ease grading for better accessible approaches and site safety during inclement weather

Improve site stormwater drainage

Develop an outdoor classroom/ seating area

New concrete paving (with low Solar Reflectance Index) to further solidify the connection between buildings in the center of campus

Revitalize existing landscaped areas surrounding Winther and Heide Hall



WINTHER & HEIDE HALLS
PRE-DESIGN SITE CONCEPT

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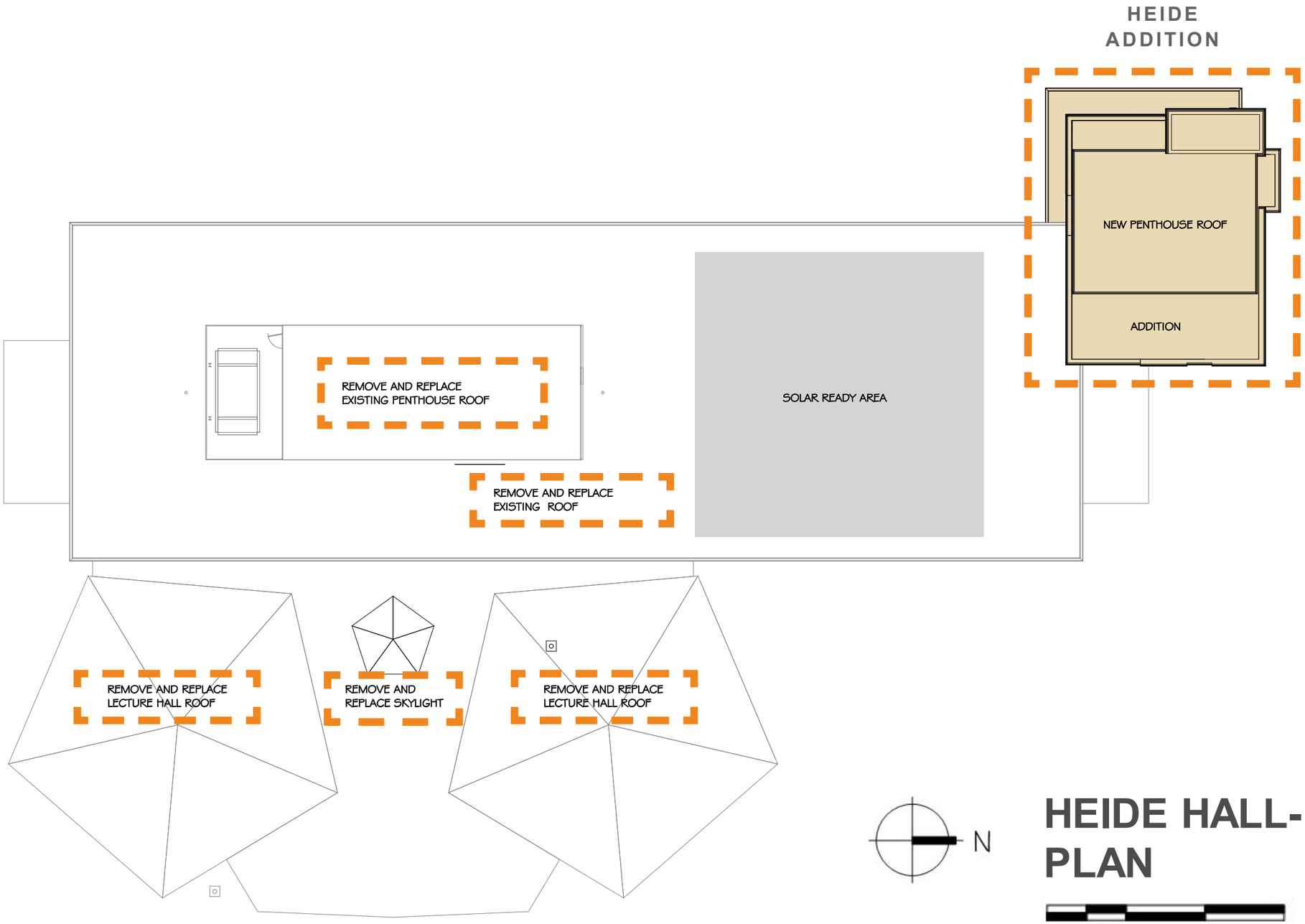

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HEIDE HALL- ROOF PLAN

0’ 8’ 16’ 32’ 48’

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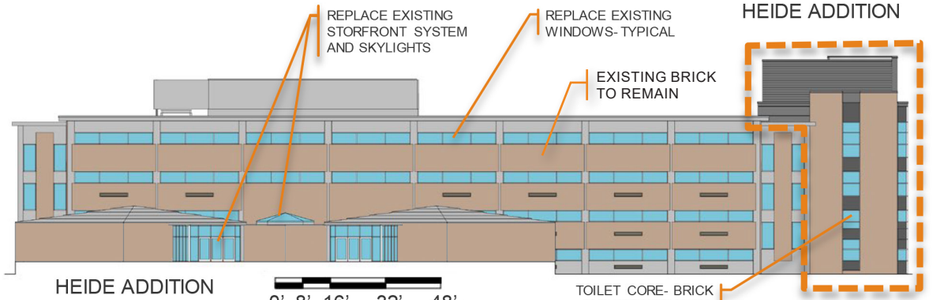
EXISTING EAST ELEVATION

0’ 8’ 16’ 32’ 48’

EXISTING WEST ELEVATION

0’ 8’ 16’ 32’ 48’

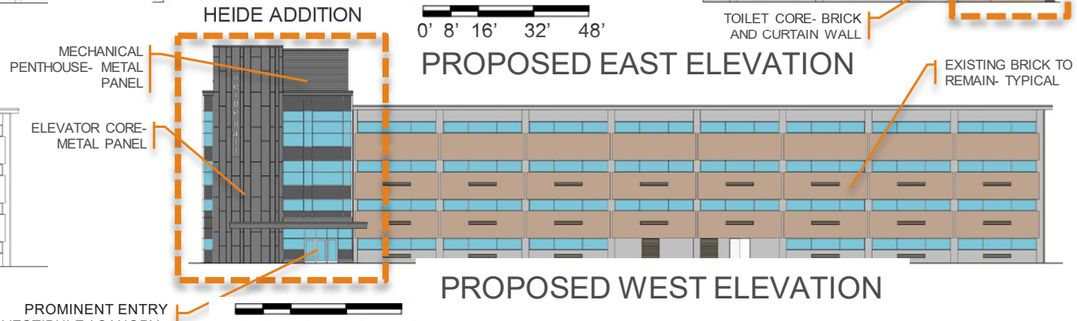


0’ 8’ 16’ 32’ 48’

PROPOSED EAST ELEVATION

TOTAL SURFACE AREA EAST:	11,489 SF
STOREFRONT:	2,622 SF
SF SPANDREL PANELS:	0 SF
CURTAIN WALL:	225 SF
CW SPANDREL PANELS:	70 SF

2,777 SF/ 11,489 SF = 24% GLAZING TO WALL
30% ALLOWED (SUSTAINABILITY GUIDELINES)

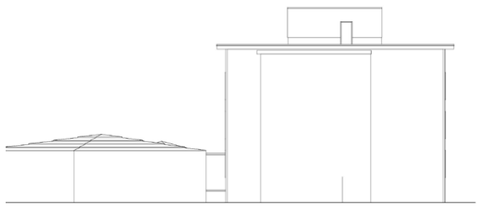


0’ 8’ 16’ 32’ 48’

PROPOSED WEST ELEVATION

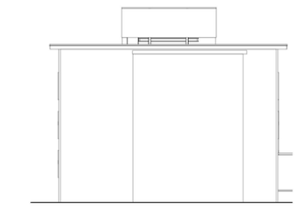
TOTAL SURFACE AREA WEST:	11,547 SF
STOREFRONT:	2,410 SF
SF SPANDREL PANELS:	0 SF
CURTAIN WALL:	892 SF
CW SPANDREL PANELS:	335 SF

2,967 SF/ 11,547 SF = 26% GLAZING TO WALL
30% ALLOWED (SUSTAINABILITY GUIDELINES)



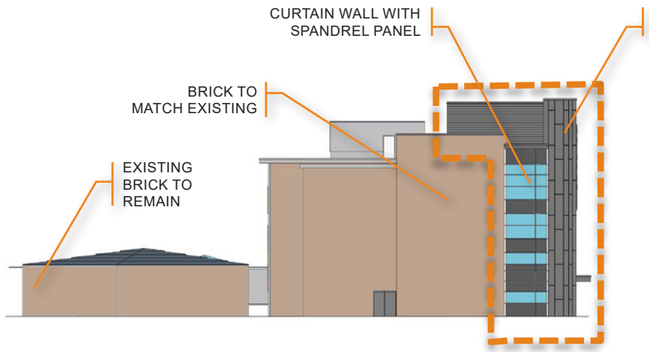
EXISTING NORTH ELEVATION

0’ 8’ 16’ 32’ 48’



EXISTING SOUTH ELEVATION

0’ 8’ 16’ 32’ 48’



PROPOSED NORTH ELEVATION

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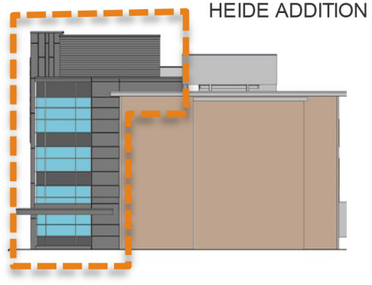

PROPOSED SOUTH ELEVATION

0’ 8’ 16’ 32’ 48’

TOTAL SURFACE AREA NORTH:	5,316 SF
STOREFRONT:	0 SF
SF SPANDREL PANELS:	0 SF
CURTAIN WALL:	868 SF
CW SPANDREL PANELS:	336 SF

532 SF/ 5,316 SF = 10% GLAZING TO WALL
40% ALLOWED (SUSTAINABILITY GUIDELINES)

TOTAL SURFACE AREA SOUTH:	5,241 SF
STOREFRONT:	0 SF
SF SPANDREL PANELS:	0 SF
CURTAIN WALL:	440 SF
CW SPANDREL PANELS:	166 SF

274 SF/ 5,241 SF = 5% GLAZING TO WALL
30% ALLOWED (SUSTAINABILITY GUIDELINES)

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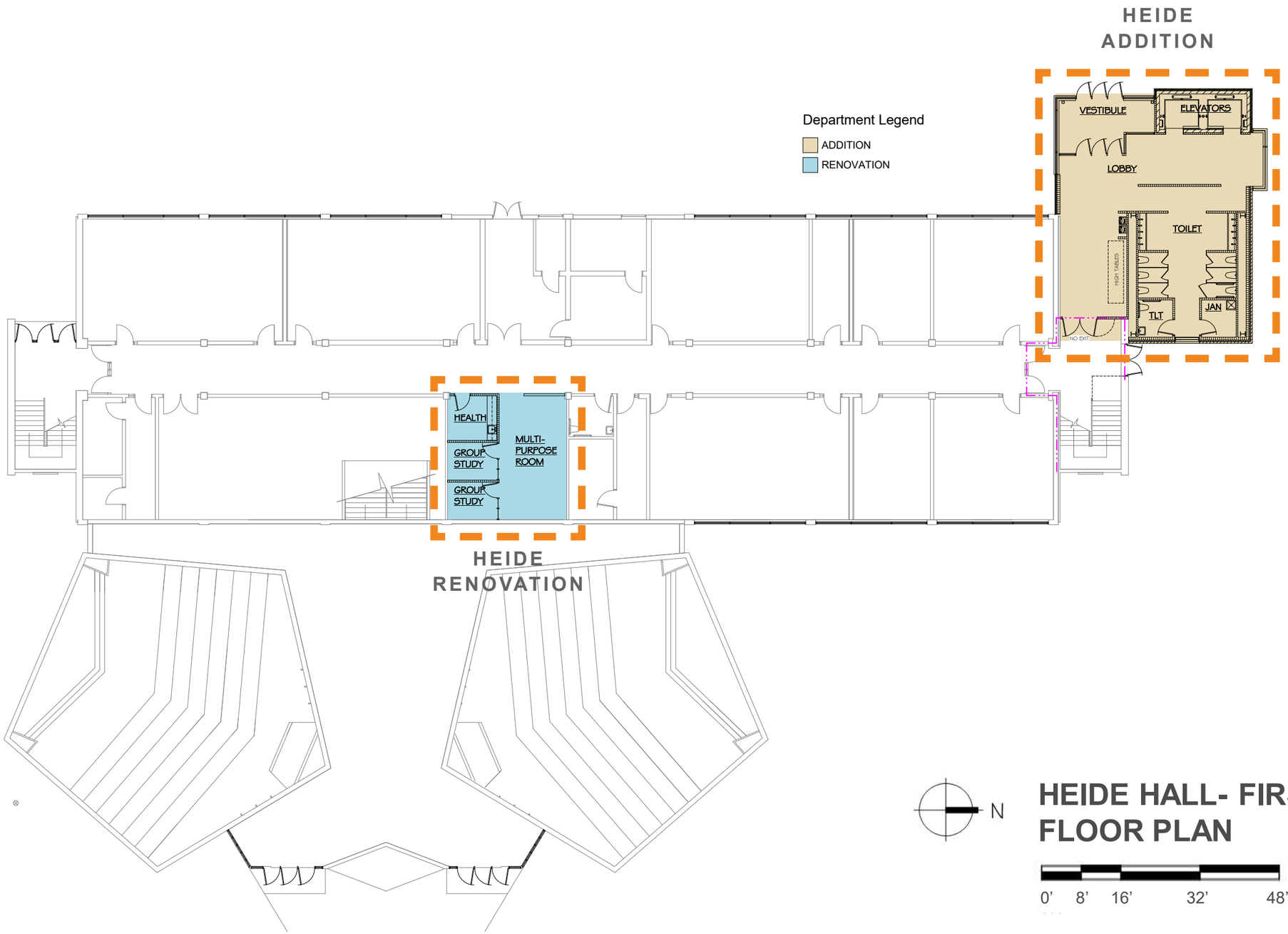

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HEIDE HALL- FIRST FLOOR PLAN

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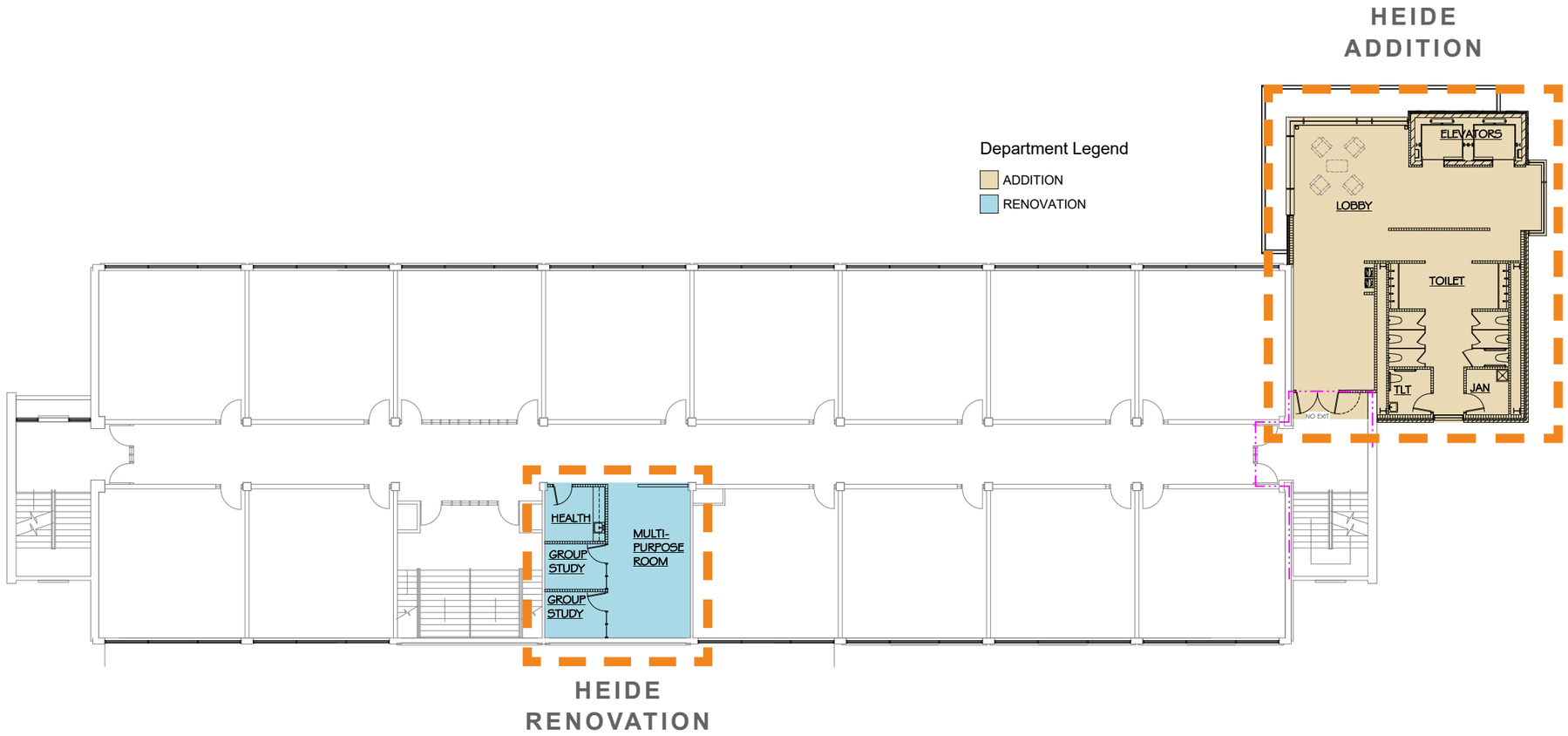

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HEIDE HALL- SECOND FLOOR PLAN

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HEIDE HALL- THIRD FLOOR PLAN

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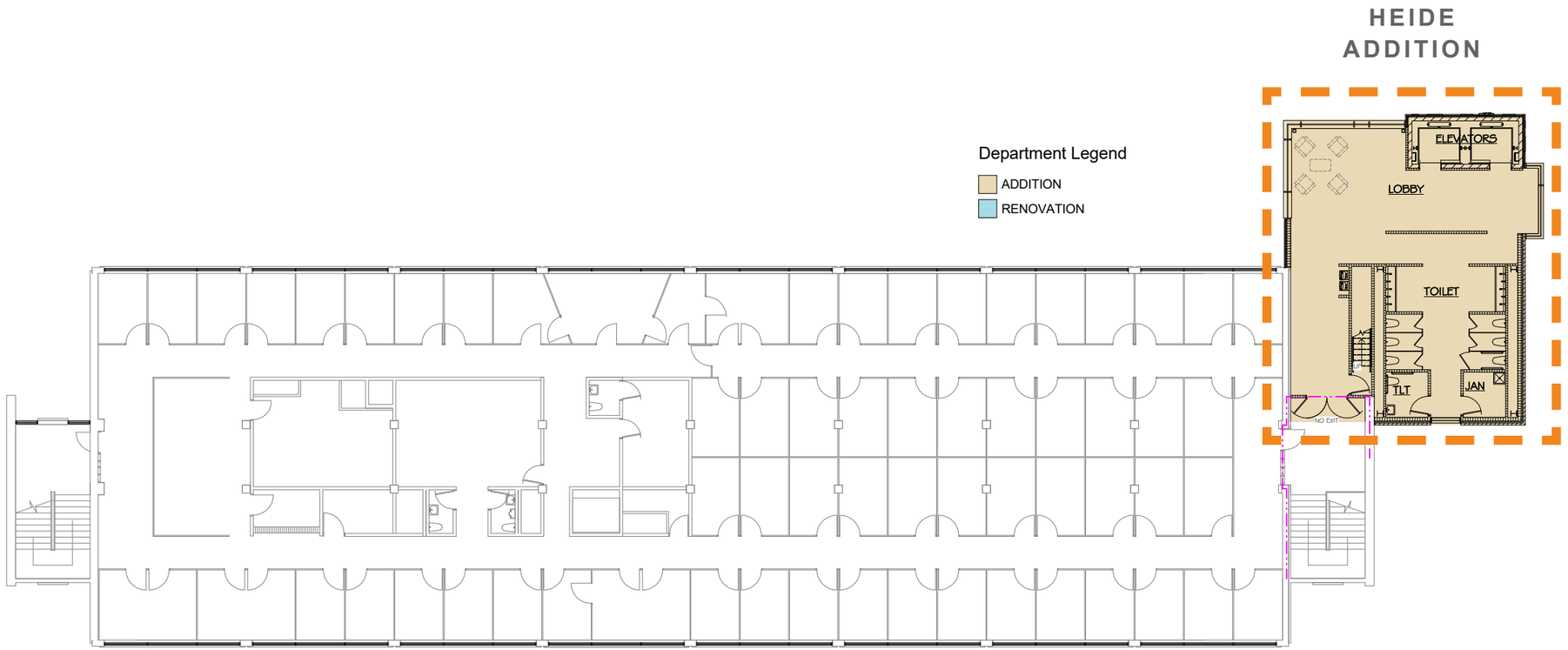

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HEIDE HALL- FOURTH FLOOR PLAN

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HEIDE HALL - NORTHEAST

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HEIDE HALL - NORTHWEST

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HEIDE HALL - SOUTHWEST

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VOLUME 3

Appendix

ATTACHMENTS:

- Site Survey
- Walk and Bike Score
- Preliminary Dew Point Calculations
- Facility condition assessment

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