DAVID J. GARMAN

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portfolio | https://issuu.com/david.garman



education

Kansas State University
College of Architecture, Planning & Design

Masters of Architecture
2008-2013

professional experience

BSA LifeStructures
Architectural Designer
11/21 - 03/22

Confidential Client
A lab facility was looking to tear down their existing building in phases to build new on their campus. I was involved in the initial programming, phasing and layout adjacencies. As programmatic layouts developed, I also developed the overall design concept as it related to the site and initial exterior design options.

National Veterinary Associates
With the client seeing rapid growth, we were given multiple projects across the country to quickly convert existing buildings into efficient state of the art veterinary facilities. I worked on several sites to help push the documents from design development through construction documents.

Parks Cabinets
Project Manager
08/20 - 11/21

Project Manager
Working with clients and contractors from initial design meeting through project completion. I was involved in the estimating, designing, drawings, project coordination and punch list items through out the project.

Mackey Mitchell Architects
Architectural Designer
10/19 - 08/20

Illinois State University
Normal, IL | 333,500 sf

A new 1,200 student residence hall that includes a dining center. This was a P3 project that had a strong emphasis on pedestrian connection and green space. I was involved in the overall building design, layout and documentation through schematic design.

SCAD River Street
Savannah, GA | 270,000 sf

Hailing from Savannah, GA, SCAD had the need to add a new 750 student residence hall, dining hall and parking garage. I was involved in the design and layout of the parking garage and residence floors as well as coordination of the overall structural system and exterior design `during the schematic design phase.

University of Wyoming
Laramie, WY | 320,000 sf

The University of Wyoming had immediate needs to increase the capacity of on-campus housing. With a short deadline, our team worked to develop phase one of two phases, adding 1,000 beds to the campus along with a dining hall. Our approach added a north and south hall. My focus was on the north hall developing the first floor dining and common spaces layout along with exterior design.

Clark, Richardson & Biskup
Architectural Designer
09/13 - 10/19

Independent Stave Company
Morehead, KY | 150,000 sf

Lead role for the design and documentation of a new cooperage facility. I was also in charge of the process architecture and lead the design and flow of equipment. The proposed process layout was a compmlete re-design of how they currently operate. Through the equipement and work station adjacencies as well as the flow of personnel, material and waste, I was able to come up with a new design that decreased time and increased productivity, efficiency and personnel safety within the manufacturing plant.

Nature's Way
Green Bay, WI | 75,000 sf

A new manufacturing/packaging facility that was designed to accommodate future phasing of QC laboratory and office space. I was involved from the beginning programming through construction documentation.

Pfizer Clinical Manufacturing Facility
Andover, MA | 175,000 sf

This building added a new five suite clinical manufacturing facility to Pfizer's existing campus. I was involved in this project from programming through construction administration. Some key elements I was involved with were the shell design and detailed coordination of all disciplines.

Kremers Urban Master Plan
Seymour, IN

The intent of this study was to provide a comprehensive site master plan with an overall organizational strategy for future development over a 10 year plan. I was involved in collecting existing data, programming, finalization of report, diagramming and creating animations to help the client and parent company better understand a future strategy.

Helix Architecture + Design
Architectural Designer
01/12 - 09/12, 12/12 - 01/13

KC East Patrol Campus
Involved in the design and documentation of the police campus during schematic design.

KCUMB Master Plan
Integral part in existing data collection, programming, data synthesis, proposals and production. Involved in creating the visuals: diagrams, maps, and renderings, along with ownership of the initial draft of the master plan.

leadership

Visualization Regional Leader
Clark, Richardson & Biskup

Met monthly with our visualization expert team to discuss project efforts, complete project needs, develop company workflows and documentation, and test new programs and technology.

Bluebeam EDU
Mackey Mitchell Architects

The firm wanted to make the switch from Adobe Acrobat Pro to Bluebeam. Working in a team of three, I was involved in implementing, educating and creating templates and documentation to support the firm's transition to Bluebeam.

WELL Research
Mackey Mitchell Architects

A client was interested in the idea of making one of their residence halls a WELL Certified building. I was tasked to research WELL certification in general and understand the requirements to track the feasibility of pursuing certification for the project. In the end, the client decided to not pursue actual certification - however, they did implement several major concepts into the design to improve overall wellness and health for the students in the building.

software

Revit, AutoCAD, SketchUp, Navisworks, 3Ds Max + V-Ray, Enscape, Lumion, Rhino + Grasshopper

Adobe Creative Suite: Photoshop, Lightroom, Illustrator, InDesign, Premiere Pro

Microsoft Office, Bluebeam

references

Steve Emer
President, Mackey Mitchell Architects
steve_e@mackeymitchell.com
314.421.1815

Jordan Gatewood
Principal, Mackey Mitchell Architects
jordan_g@mackeymitchell.com
314.421.1815

Soran Sulaiman
Project Manager, Clark, Richardson & Biskup
soran.sulaiman@crbusa.com
314.997.1515

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Clark, Richardson & Biskup



Nature's Way

Clark, Richardson & Biskup



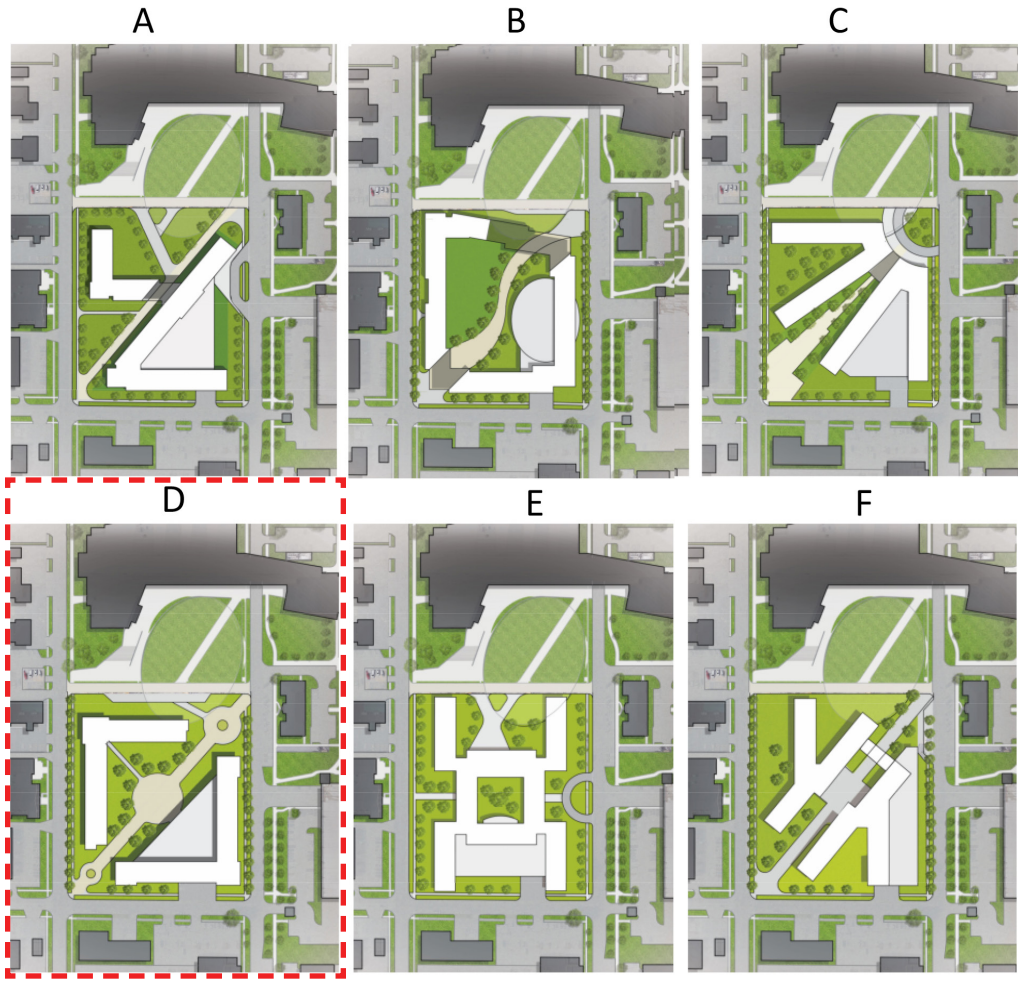
Visualization



Illinois State University

Normal, IL
Mackey Mitchell Architects

Illinois State University came to Mackey Mitchell looking to add a new residence hall plus dining center to their campus. The hall was to hold 1,200 students with a dining capacity of 750. An element that strongly influenced the building massing was pedestrian traffic through the site. Keeping a diagonal traffic way that connects off campus students to the main campus was essential in the design of this residence hall. I was in charge of the overall layout of the building as well as ensuring we were on the right track for overall sf and bed count. After submitting our SD package, the design was challenged and we explored options that resolved a few issues the client wanted to investigate; the emphasis on pedestrian traffic, scale of the building and if this residence hall could or should become one building. We were able to present an option that resolved many of these issues to the client, but ultimately the project was put on hold due to COVID.







overall first floor



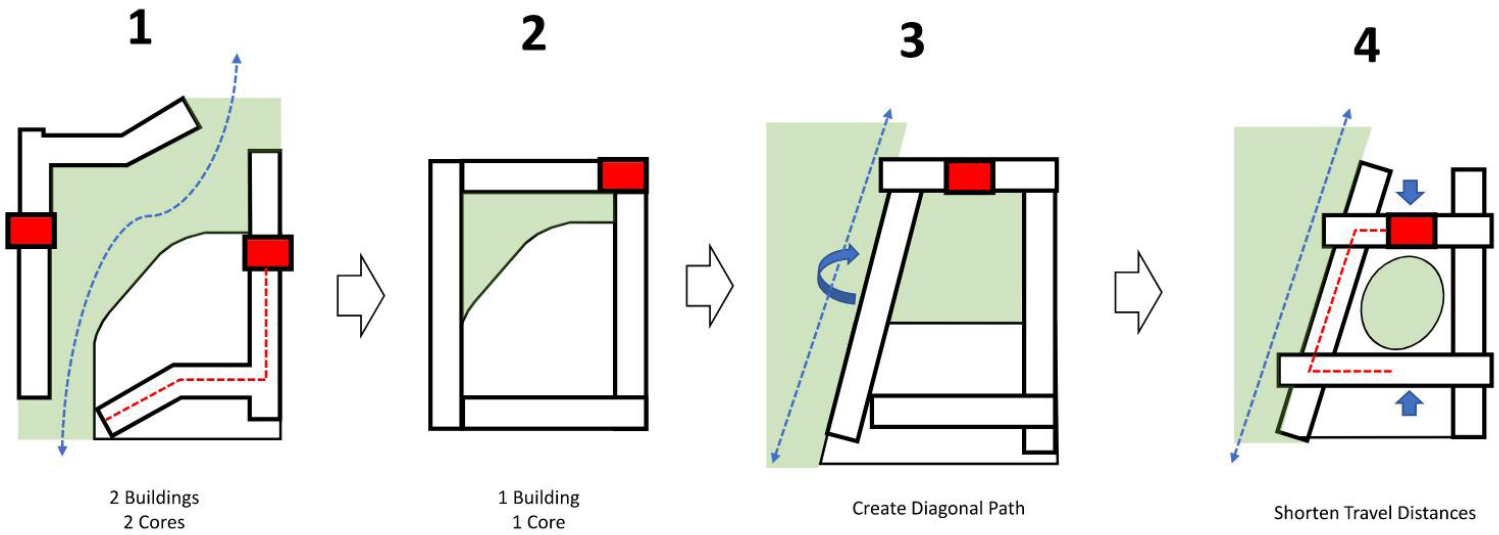


typical residence floor

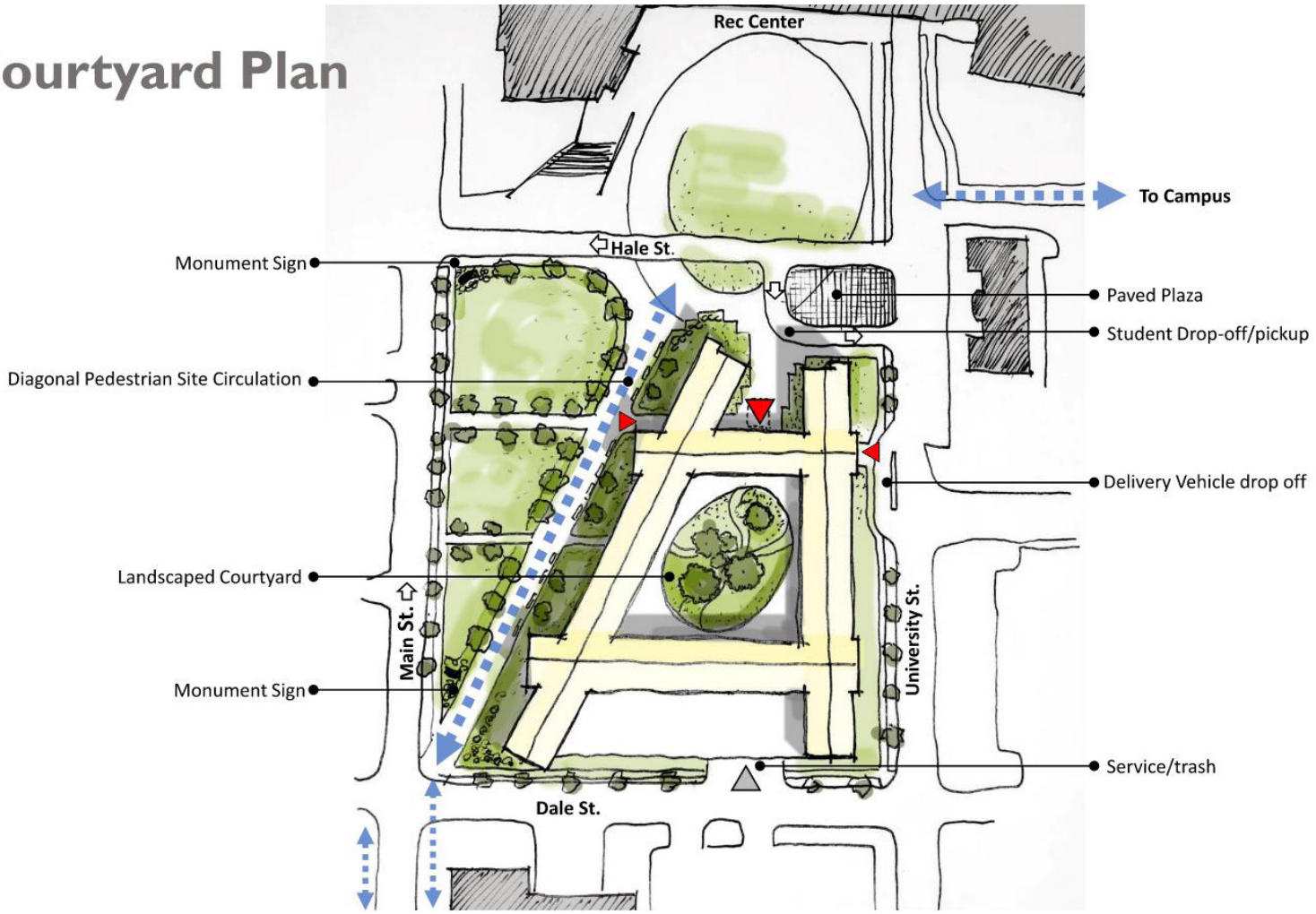


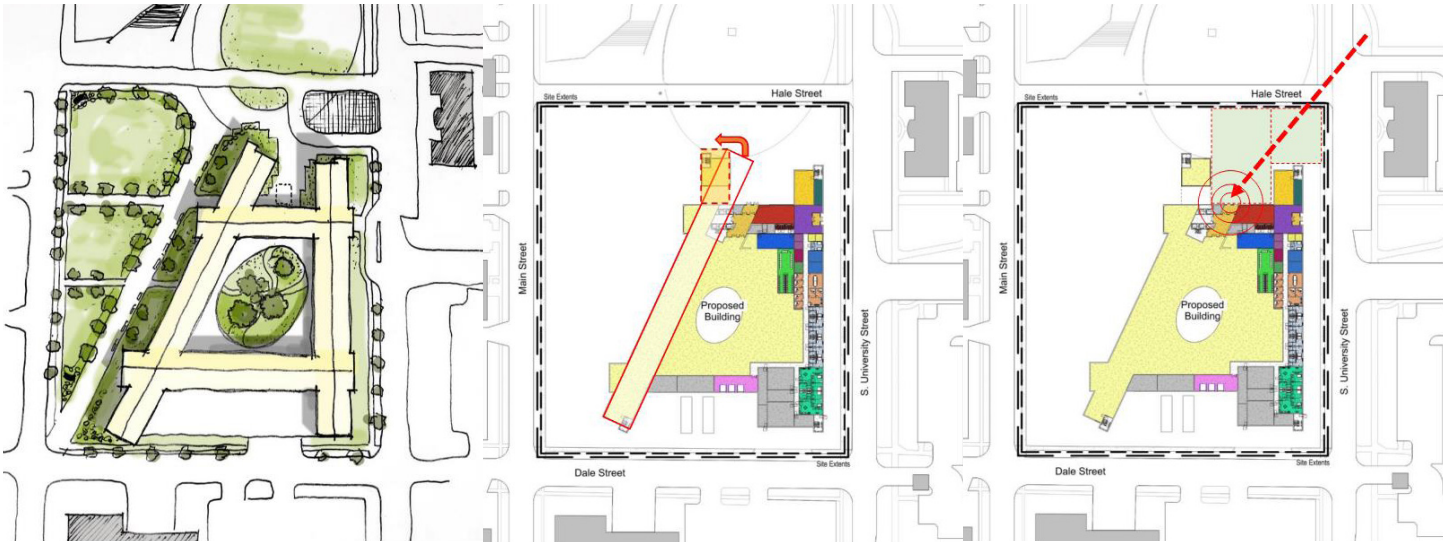






Courtyard Plan




Site Extents
Hale Street
Main Street
Proposed Building
S. University Street
Dale Street
Site Extents
Site Extents
Hale Street
Main Street
Proposed Building
S. University Street
Dale Street
Site Extents



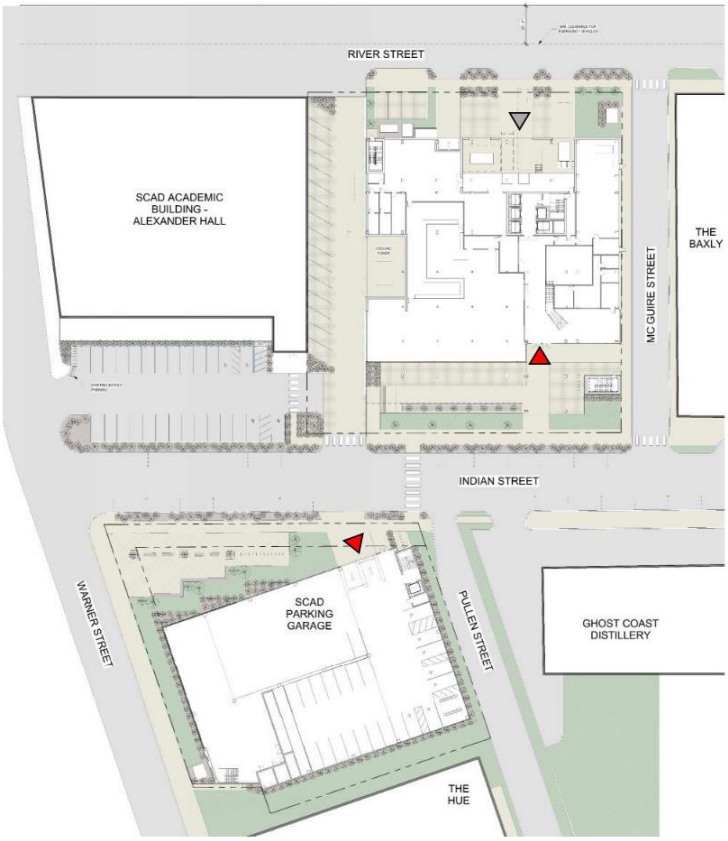




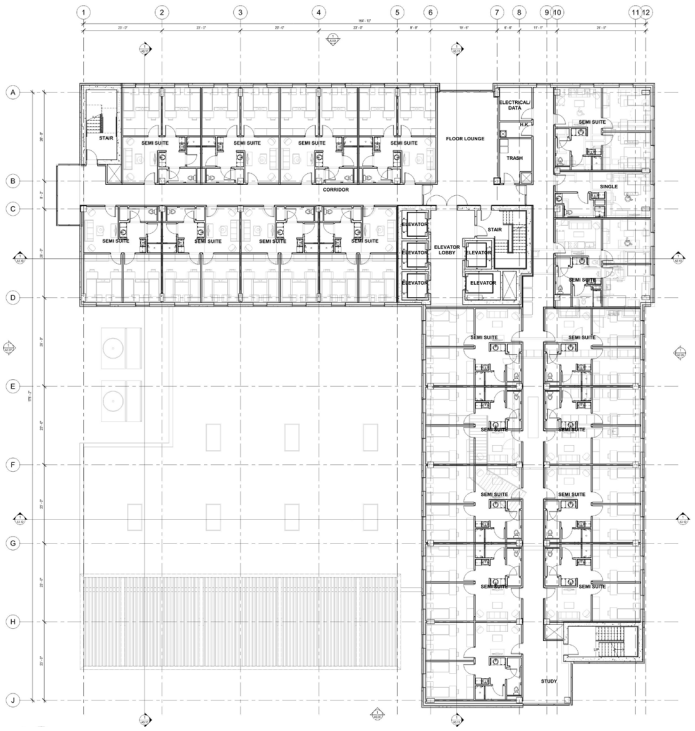
SCAD River Street

Savannah, GA
Mackey Mitchell Architects

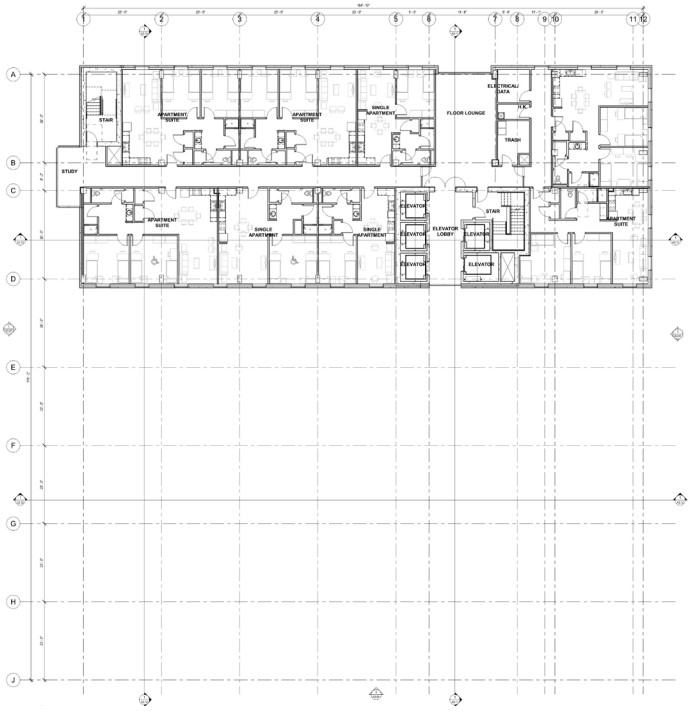
Mackey Mitchell had completed a residence hall for SCAD a few years ago that set a precedent for the University's future halls. Complimenting the architectural dialogue defined in the previous project, SCAD River Street adds 750 beds, a dining hall and parking garage to the growing campus. Responding to the site and surrounding context, the building's scale is broken down to a one story dining hall and two scales of residence towers. My efforts in this project were more technical, helping with the documentation of the parking garage and residence floors. For the residence levels, I worked on the overall layouts of each floor and was heavily involved in the structural system coordination. Due to a change in program in the residence tower, we were investigating spans and column grid layout shifts that would best suite our proposed layout.







levels 2-7
- single rooms
- double rooms



levels 8-14
- double rooms
- suite rooms
- apartments

to accommodate the change in program, we investigated a shift in the column grid starting at level 8

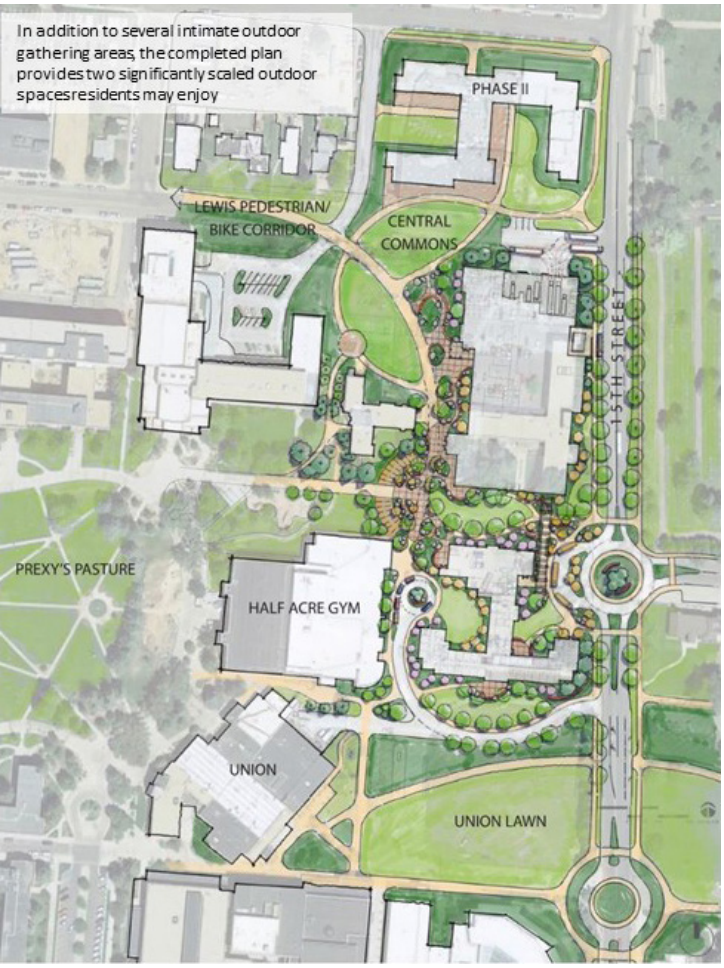


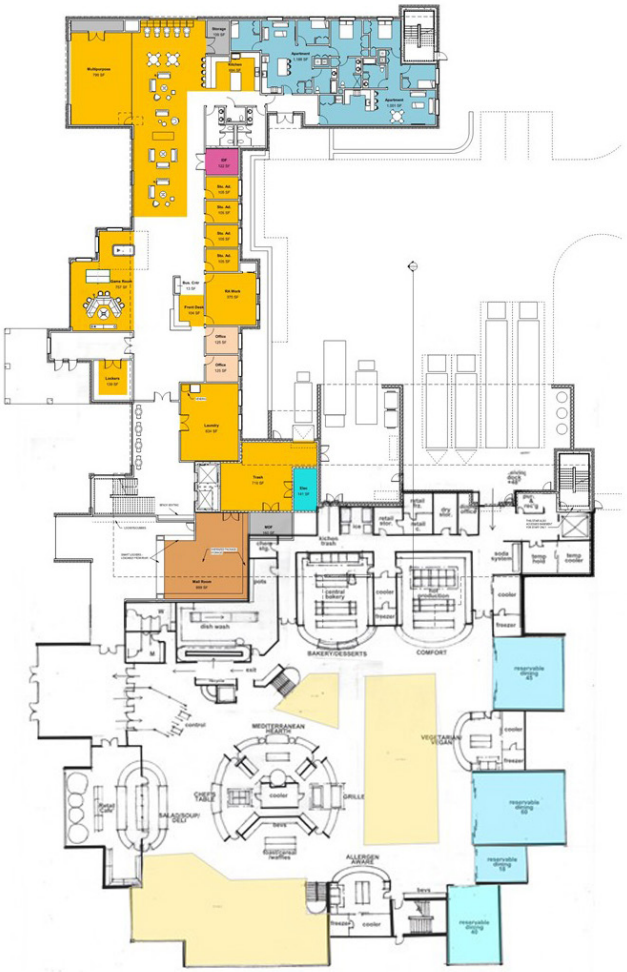
University of Wyoming

Kansas City, MO
Helix Architecture + Design

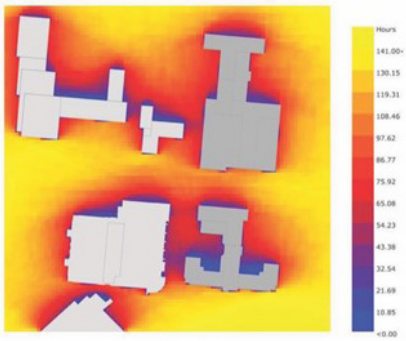
The University of Wyoming needed to expand their student housing in two phases. The first phase called for 1,000 beds that included a north and south hall along with a dining center. The second phase called for an additional 1,000 beds. My focus on this project was in the north hall, working on the first floor layout, dining layout and exterior design. Through out SD we were tossed several curve balls to the proposed design as we presented to several different groups within the university. The evolution of the first floor responded to several client decisions and site factors but ultimately ended up creating an open green space adjacent to the dining hall that complimented the heavy student traffic and campus quad.



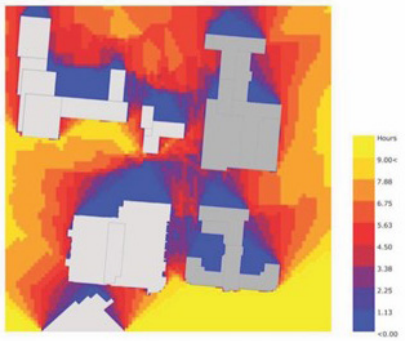




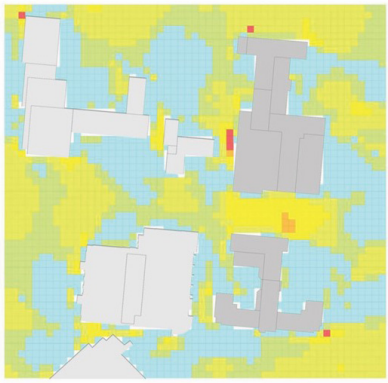


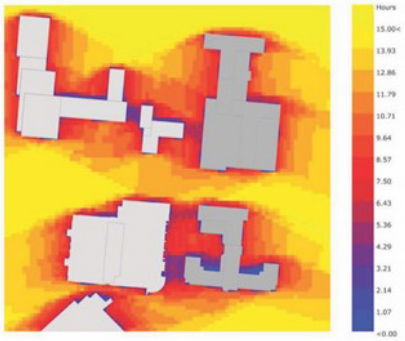


Annual Average

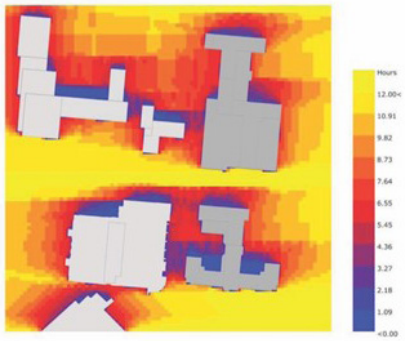


Winter Solstice

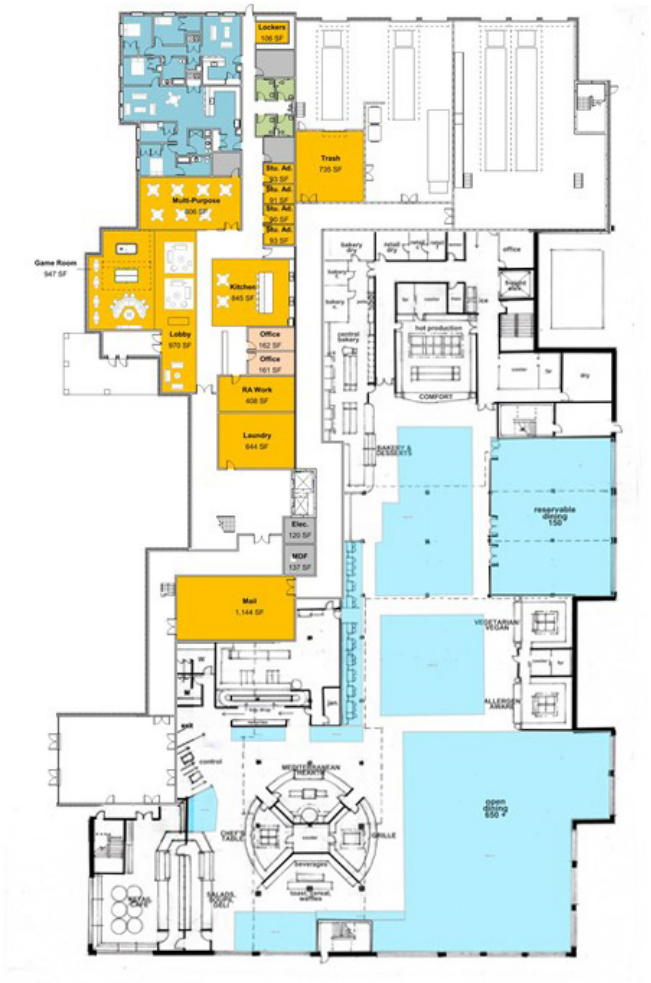




Summer Solstice



Spring Equinox



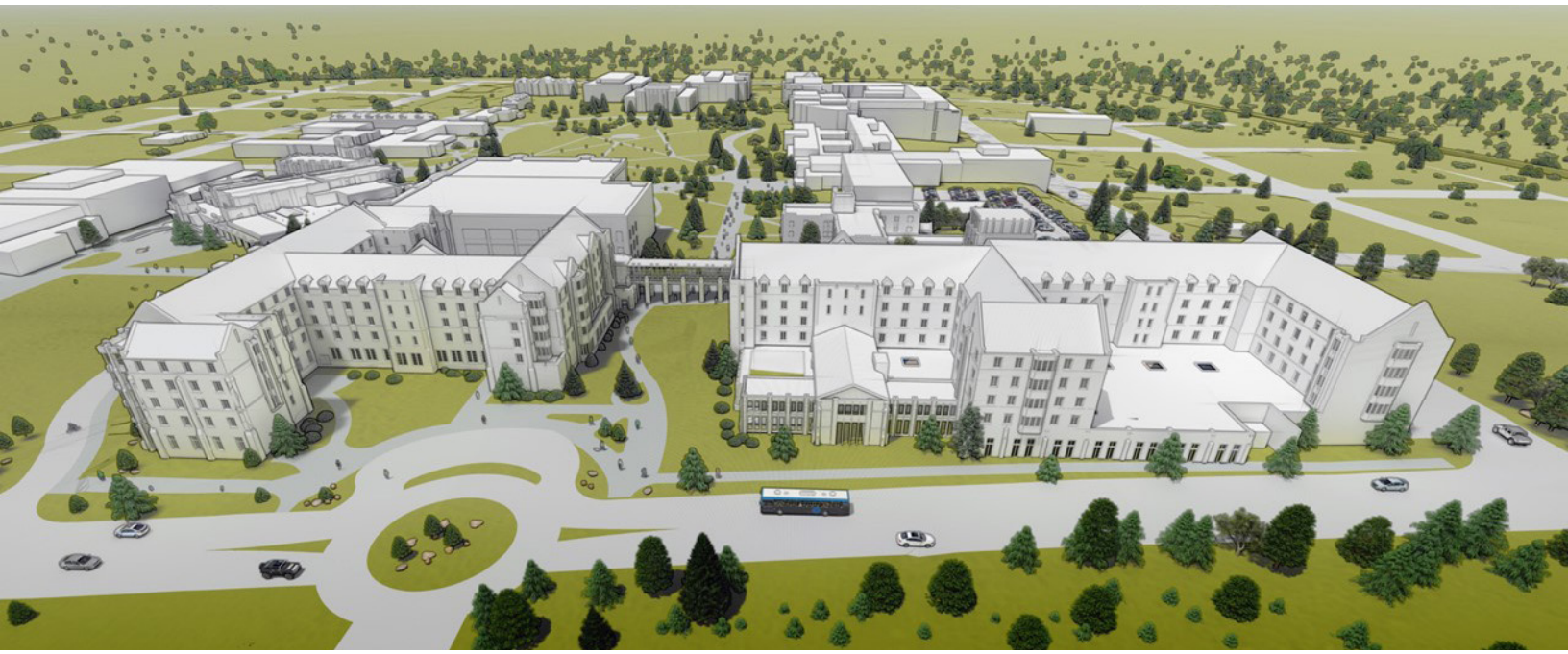


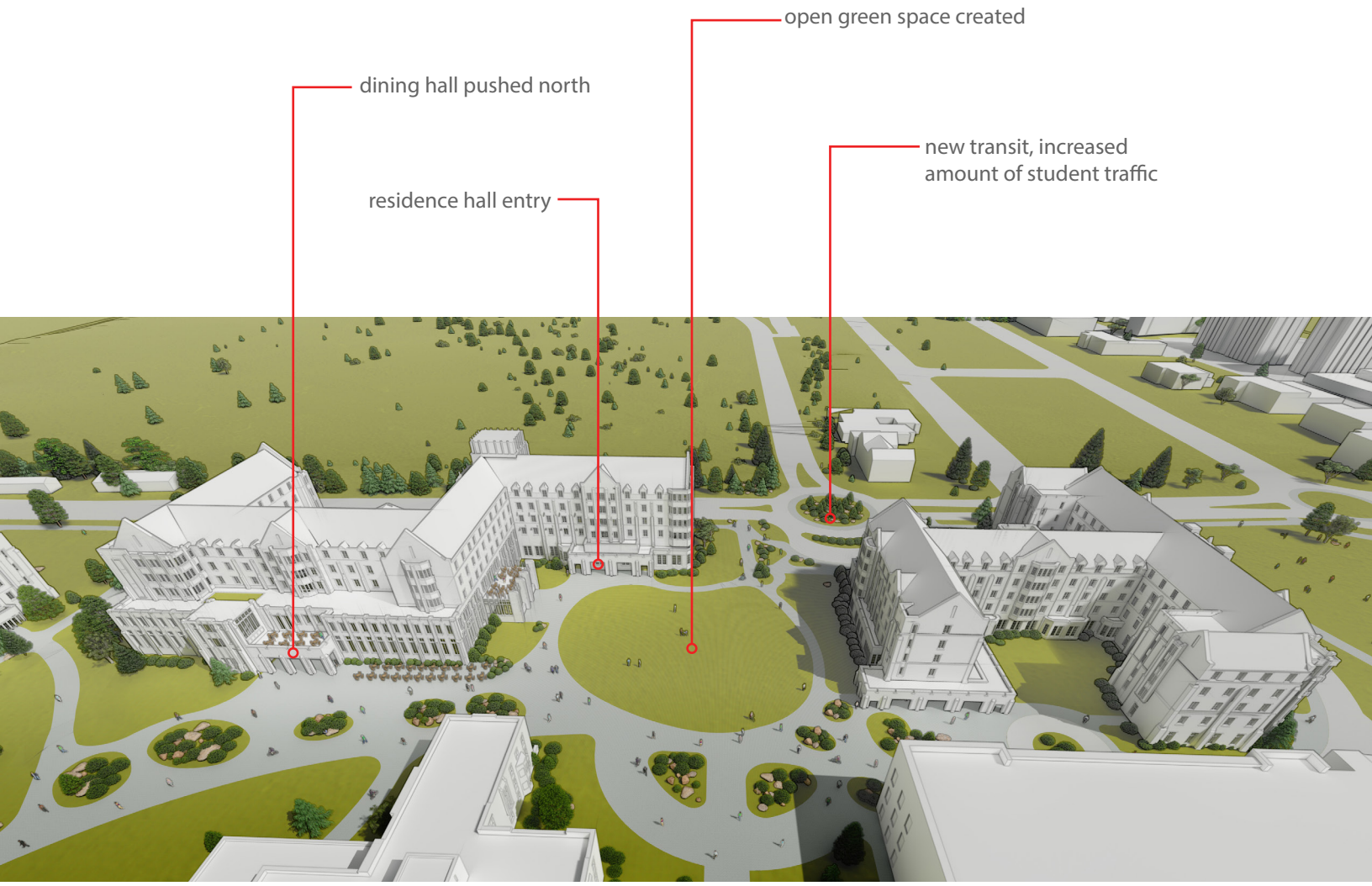
dining hall on south
end of the North hall

residence hall entry

connecting bridge between north and
south hall, feeding into dining hall






open green space created
dining hall pushed north
new transit, increased
amount of student traffic
residence hall entry



KCU Master Plan

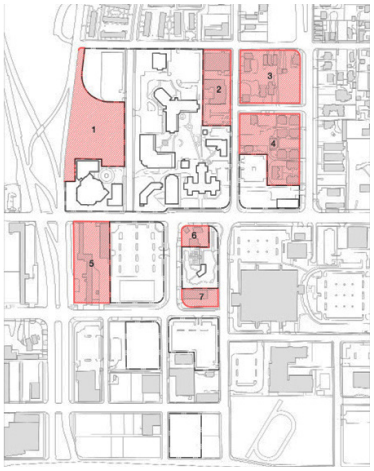
Kansas City, MO
Helix Architecture + Design

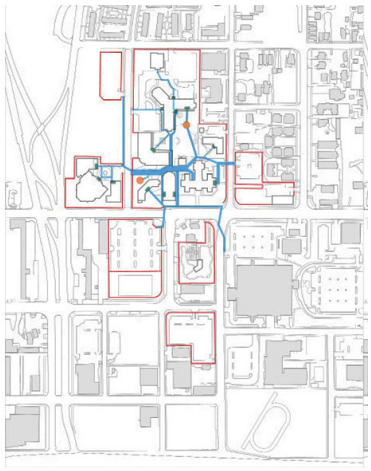


Kansas City University of Medicine and Biosciences (KCU) is one of the oldest and largest osteopathic schools in the nation and came to Helix looking to create a strategic plan for their sustained and future growth of the campus. By understanding existing conditions, analyzing spatial needs and relationships, and incorporating the university's culture into our decisions, we were able to outline a clear vision for the future. The master plan proposed the re-organization of departments, renovations to existing buildings and identified new buildings that all aligned with one goal in mind; to position KCU as one of the top schools for medical education in the country. Several renovation and new construction projects have occurred on campus since this initial master plan.

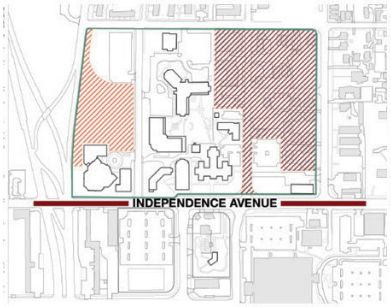


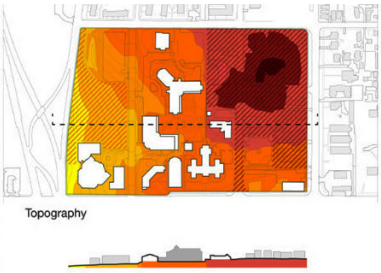


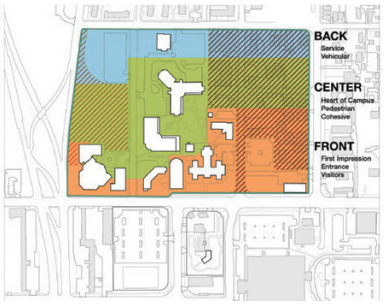

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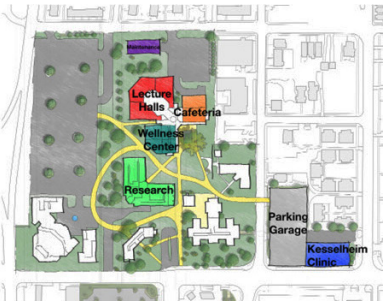


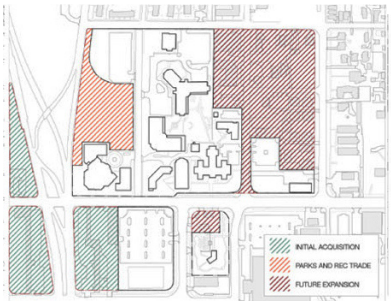


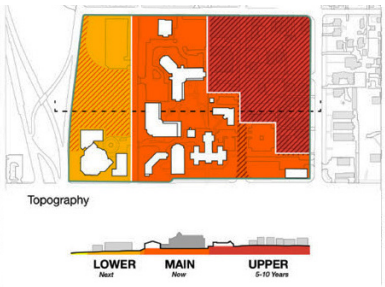

INDEPENDENCE AVENUE

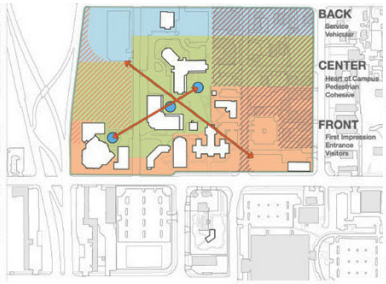

Topography

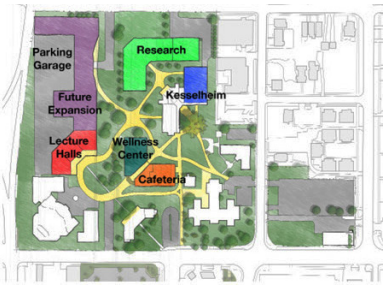

BACK
Service
Vehicular
CENTER
Heart of Campus
Pedestrian
Cohesive
FRONT
First Impression
Entrance
Visitors


Maintenance
Lecture Halls
Cafeteria
Wellness Center
Research
Parking Garage
Kesselheim Clinic


INITIAL ACQUISITION
PARKS AND REC TRADE
FUTURE EXPANSION


Topography
LOWER
Next
MAIN
Now
UPPER
5-10 Years

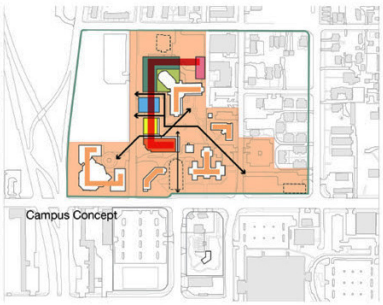

BACK
Service
Vehicular
CENTER
Heart of Campus
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FRONT
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Entrance
Visitors


Parking Garage
Research
Future Expansion
Kesselheim
Lecture Halls
Wellness Center
Cafeteria


Kesselheim


Cafeteria and
Wellness Center


Campus Concept


Campus Concept

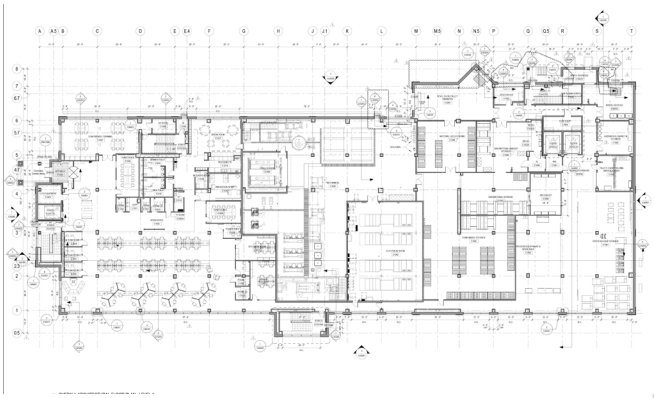
Pfizer ACMF

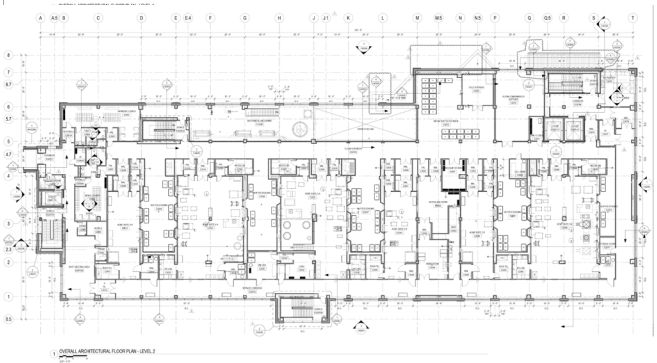
Andover, MA
175,000 sf
200 million

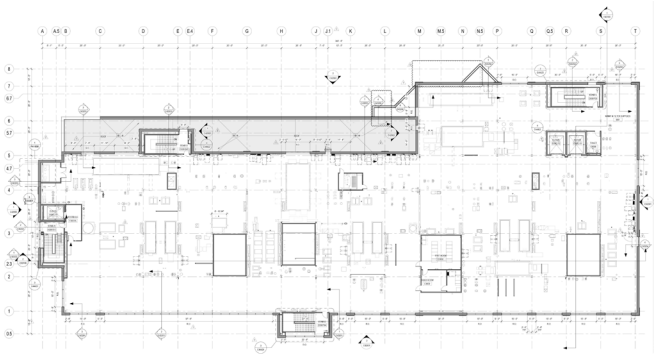
The Pfizer Andover Clinical Manufacturing Facility (ACMF) was designed to replace the manufacturing facility in Chesterfield, MO and increase manufacturing capacity. The new building adds five new process suites and administrative support spaces including a large open office, training rooms, locker rooms, and collaborative meeting areas. Keeping aligned with their current master plan, the building was placed on the site to not only preserve but frame an existing green space as well as to maximize the views of the lake. Another feature of the building was the connecting bridge. This tied into two of the existing buildings on site and served both the employee and utility connection as we pulled main utilities from the northern building. One of my roles in this project was to organize and coordinate all disciplines within the process utility walls in the suites. I also helped to develop the skin of the building and curtain wall system.

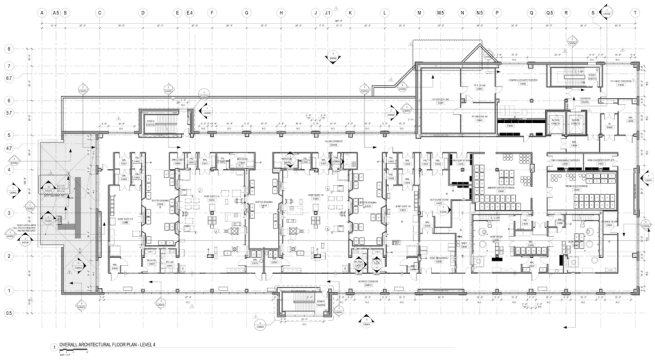


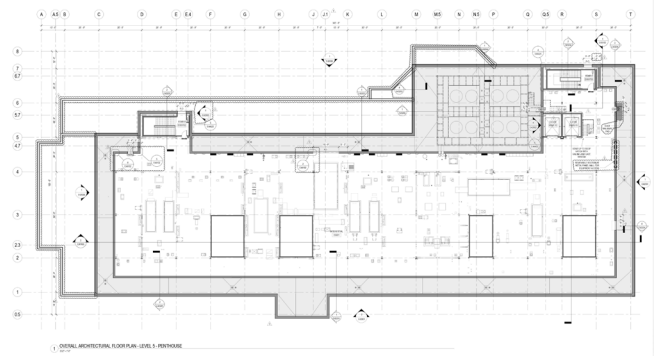






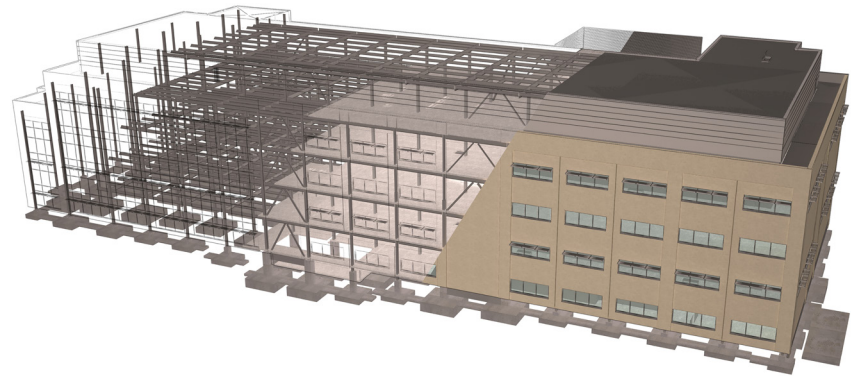


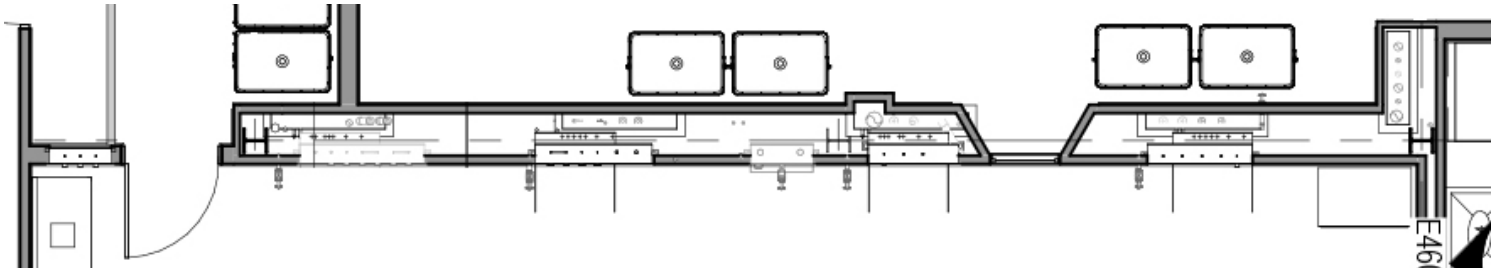




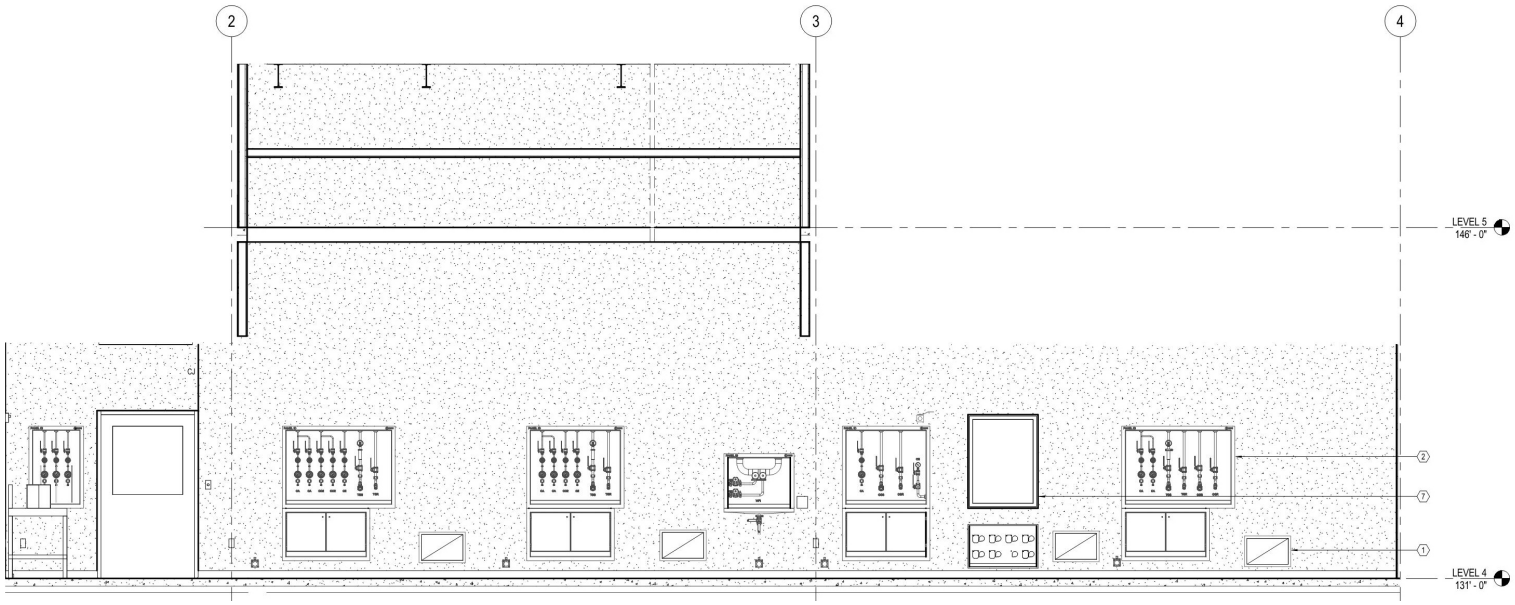








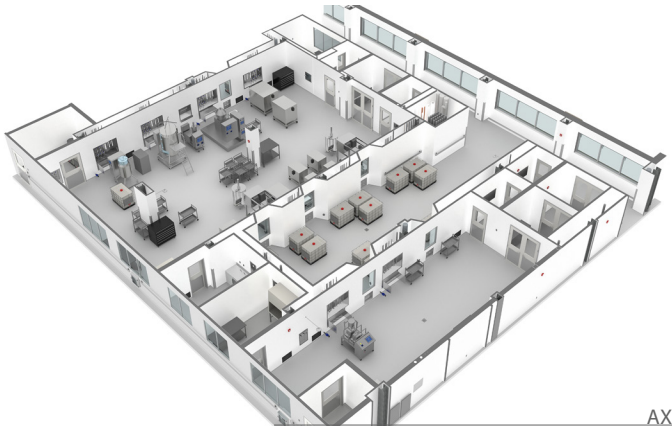
PLAN VIEW



PROCESS WALL ELEVATION

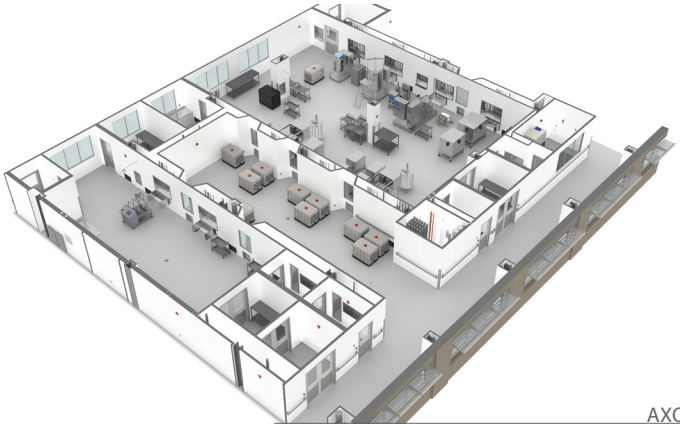


NAVISWORKS SECTION



AXON 1





AXON 2





AXON 3





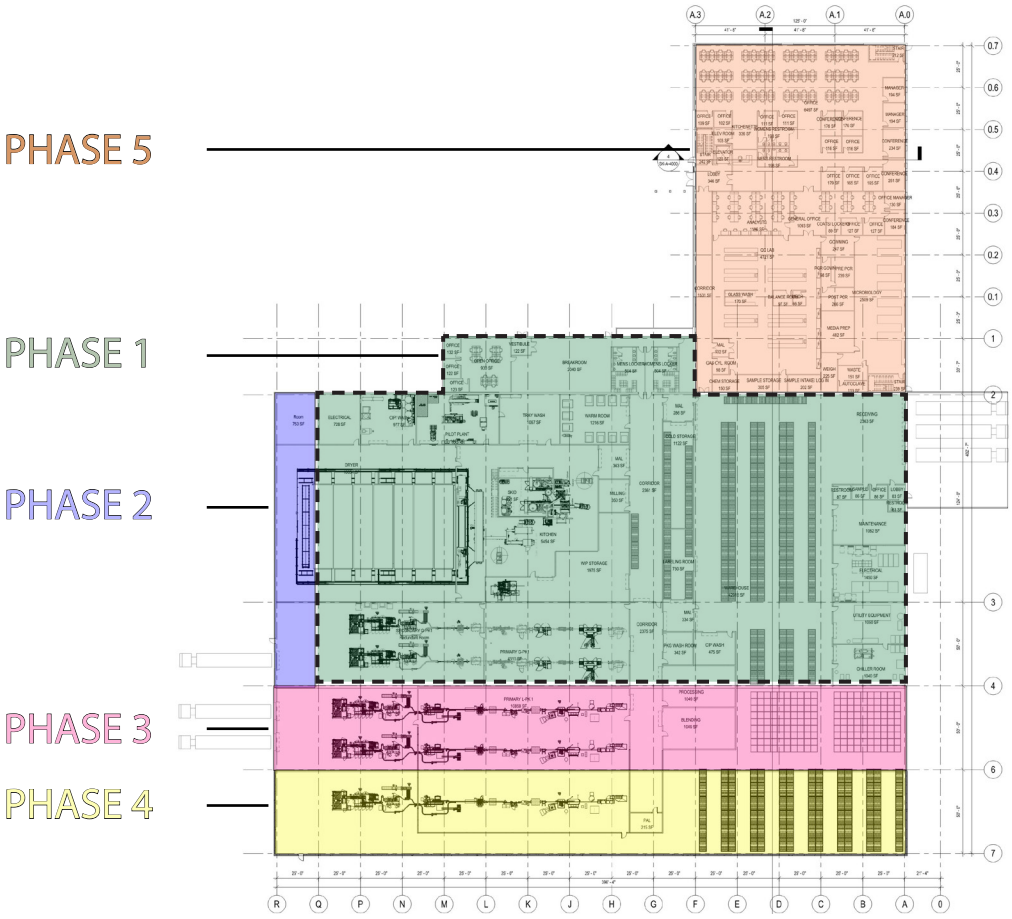
AXON 4



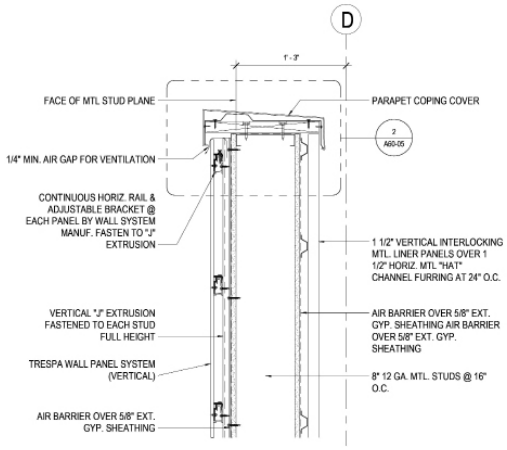
Nature's Way

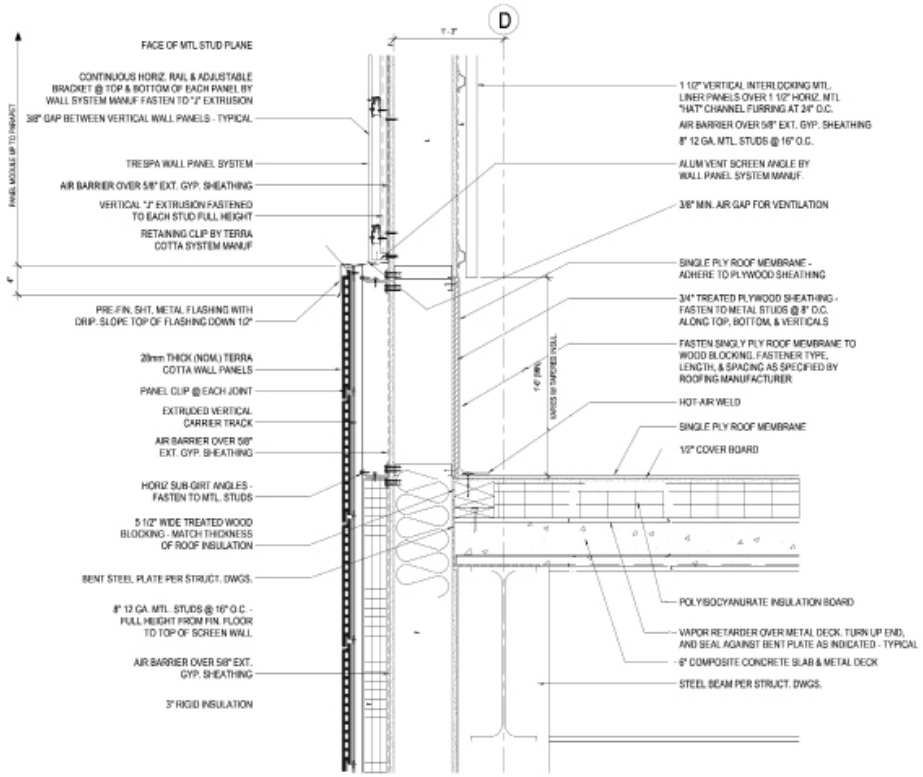
Green Bay, WI
75,000 sf
30 million

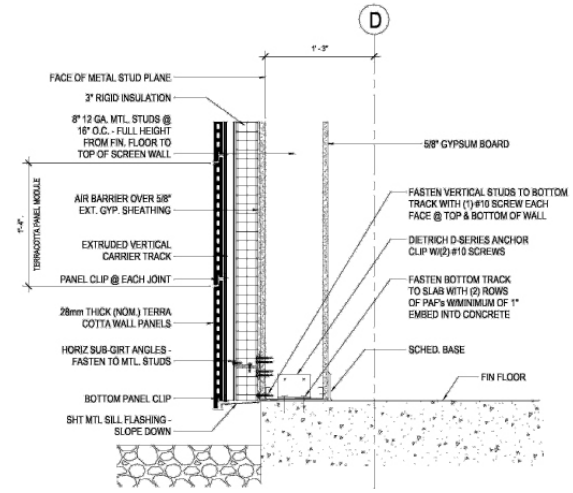
With a desire to increase manufacturing capabilities, Nature's Way needed to expand their facilities. This green field project was designed to not only increase the client's immediate manufacturing and packaging capabilities but planned to accommodate future growth in both production capacity and office space such as administration, QC, and innovation departments. Future growth of the site was divided into five phases over the span of 15 years. The first phase of the project includes a pre-engineered production building with a supporting administration portion that sits on the front. Materiality for the administration building became a key part of the design as this would carry into the future office/lab addition. We decided on using a rainscreen system of both terracotta and Trespa – the Trespa to match the client's corporate color. Another function of the administration design was to hide two roof mounted AHU's. This will be a LEED certified building.

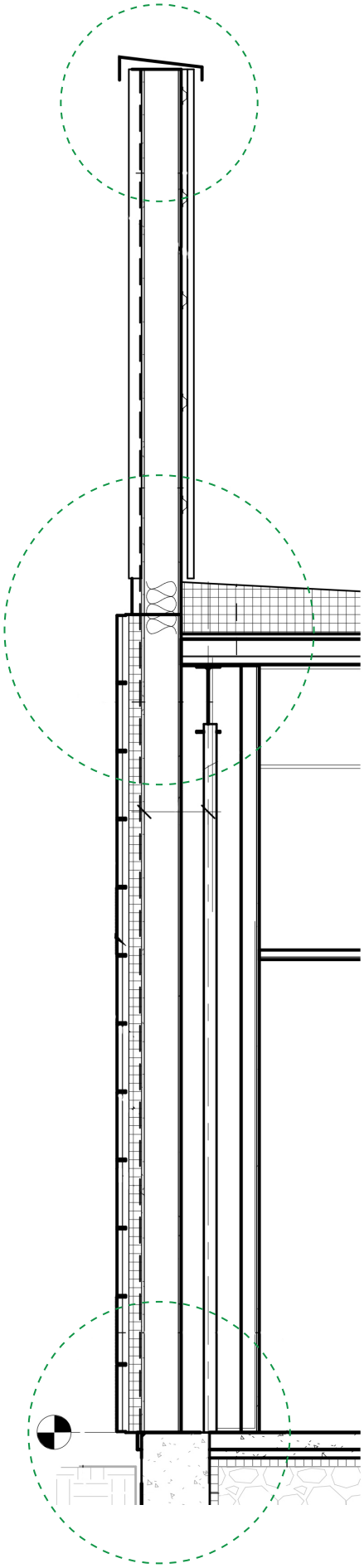





D
1'-3"
FACE OF MTL STUD PLANE
PARAPET COPING CVER
2
A60-05
1/4" MIN. AIR GAP FOR VENTILATION
CONTINUOUS HORIZ. RAIL & ADJUSTABLE BRACKET @ EACH PANEL BY WALL SYSTEM MANUF. FASTEN TO "J" EXTRUSION
1 1/2" VERTICAL INTERLOCKING MTL. LINER PANELS OVER 1 1/2" HORIZ. MTL "HAT" CHANNEL FURRING AT 24" O.C.
VERTICAL "J" EXTRUSION FASTENED TO EACH STUD FULL HEIGHT
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
TRESPA WALL PANEL SYSTEM (VERTICAL)
8" 12 GA. MTL. STUDS @ 16" O.C.
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING


D
1'-3"
FACE OF MTL STUD PLANE
CONTINUOUS HORIZ. RAIL & ADJUSTABLE BRACKET @ TOP & BOTTOM OF EACH PANEL BY WALL SYSTEM MANUF FASTEN TO "J" EXTRUSION
3/8" GAP BETWEEN VERTICAL WALL PANELS - TYPICAL
TRESPA WALL PANEL SYSTEM
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
VERTICAL "J" EXTRUSION FASTENED TO EACH STUD FULL HEIGHT
RETAINING CLIP BY TERRA COTTA SYSTEM MANUF
PRE-FIN. SHT. METAL FLASHING WITH DRIP. SLOPE TOP OF FLASHING DOWN 1/2"
28mm THICK (NOM.) TERRA COTTA WALL PANELS
PANEL CLIP @ EACH JOINT
EXTRUDED VERTICAL CARRIER TRACK
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
HORIZ SUB GIRT ANGLES - FASTEN TO MTL. STUDS
5 1/2" WIDE TREATED WOOD BLOCKING - MATCH THICKNESS OF ROOF INSULATION
BENT STEEL PLATE PER STRUCT. DWGS.
8" 12 GA. MTL. STUDS @ 16" O.C. - FULL HEIGHT FROM FIN. FLOOR TO TOP OF SCREEN WALL
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
3" RIGID INSULATION
1 1/2" VERTICAL INTERLOCKING MTL. LINER PANELS OVER 1 1/2" HORIZ. MTL "HAT" CHANNEL FURRING AT 24" O.C.
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
8" 12 GA. MTL. STUDS @ 16" O.C.
ALUM VENT SCREEN ANGLE BY WALL PANEL SYSTEM MANUF.
3/8" MIN. AIR GAP FOR VENTILATION
SINGLE PLY ROOF MEMBRANE - ADHERE TO PLYWOOD SHEATHING
3/4" TREATED PLYWOOD SHEATHING - FASTEN TO METAL STUDS @ 8" O.C. ALONG TOP, BOTTOM, & VERTICALS
FASTEN SINGLY PLY ROOF MEMBRANE TO WOOD BLOCKING. FASTENER TYPE, LENGTH, & SPACING AS SPECIFIED BY ROOFING MANUFACTURER
HOT-AIR WELD
SINGLE PLY ROOF MEMBRANE
1/2" COVER BOARD
POLYISOCYANURATE INSULATION BOARD
VAPOR RETARDER OVER METAL DECK. TURN UP END, AND SEAL AGAINST BENT PLATE AS INDICATED - TYPICAL
6" COMPOSITE CONCRETE SLAB & METAL DECK
STEEL BEAM PER STRUCT. DWGS.


D
1'-3"
FACE OF METAL STUD PLANE
3" RIGID INSULATION
8" 12 GA. MTL. STUDS @ 16" O.C. - FULL HEIGHT FROM FIN. FLOOR TO TOP OF SCREEN WALL
5/8" GYPSUM BOARD
AIR BARRIER OVER 5/8" EXT. GYP. SHEATHING
FASTEN VERTICAL STUDS TO BOTTOM TRACK WITH (1) #10 SCREW EACH FACE @ TOP & BOTTOM OF WALL
EXTRUDED VERTICAL CARRIER TRACK
DIETRICH D-SERIES ANCHOR CLIP W/(2) #10 SCREWS
PANEL CLIP @ EACH JOINT
FASTEN BOTTOM TRACK TO SLAB WITH (2) ROWS OF PAF's W/MINIMUM OF 1" EMBED INTO CONCRETE
28mm THICK (NOM.) TERRA COTTA WALL PANELS
HORIZ SUB-GIRT ANGLES - FASTEN TO MTL. STUDS
SCHED. BASE
FIN FLOOR
BOTTOM PANEL CLIP
SHT MTL SILL FLASHING - SLOPE DOWN









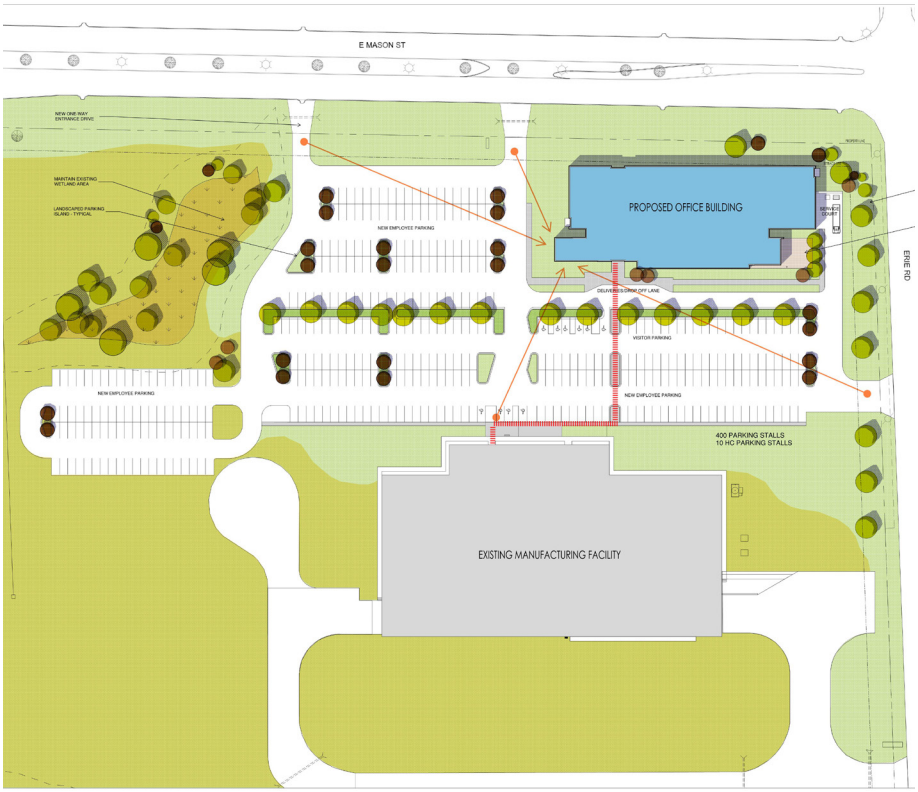


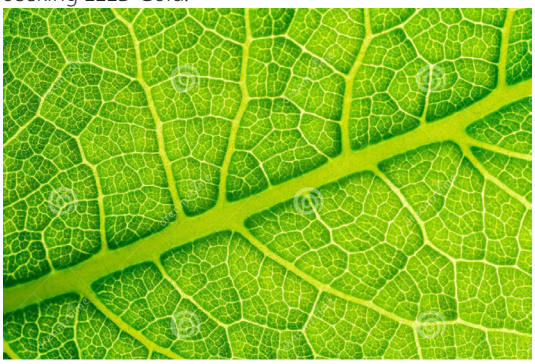


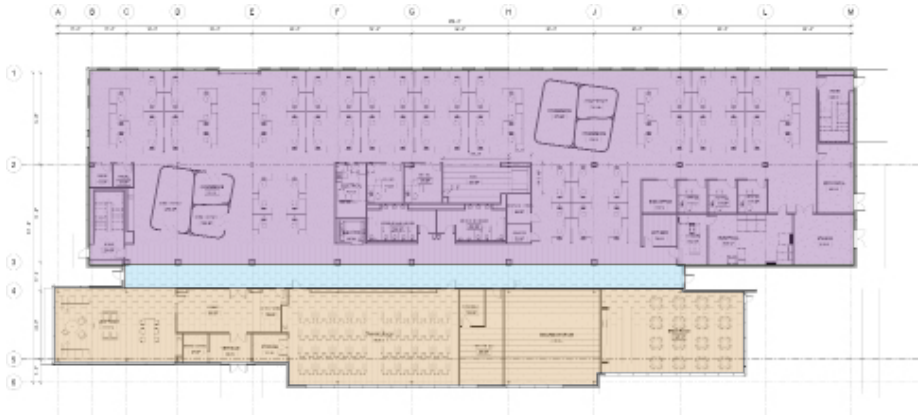
Nature's Way Office

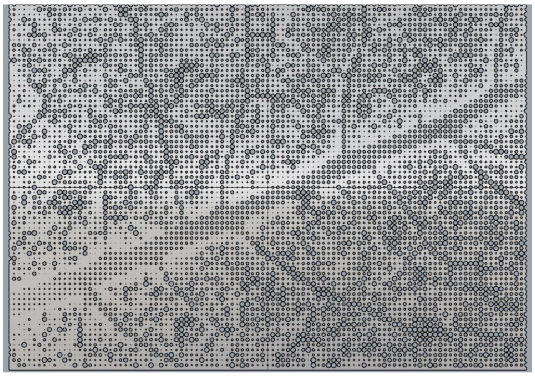
Conceptual Design - In Progress
Green Bay, WI
65,000 sf

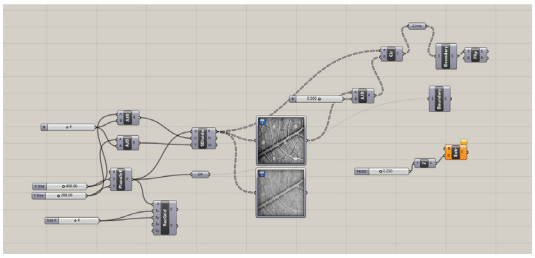
Nature's Way fast tracked phase 5 of our initial master plan to incorporate a separate office building on the north-east corner of the site. Currently undergoing conceptual design, this project looks to solve an immediate influx of admin and office space for the company. The building is organized into three distinct components: an office block, gathering spaces and a connecting glass spine that allows natural light to reach deep into the building. The overall design approach was centered around the company's logo – the leaf, and how that could promote the company's core values as it translates to the built environment through daylighting, health and wellness. A focal point of the building is the Leaf Room. Wrapped in a perforated screen that reflects the leaf at its cellular structure, this area is used to encourage communication, collaboration and ideas in an informal gathering setting. This project is currently seeking LEED Gold.

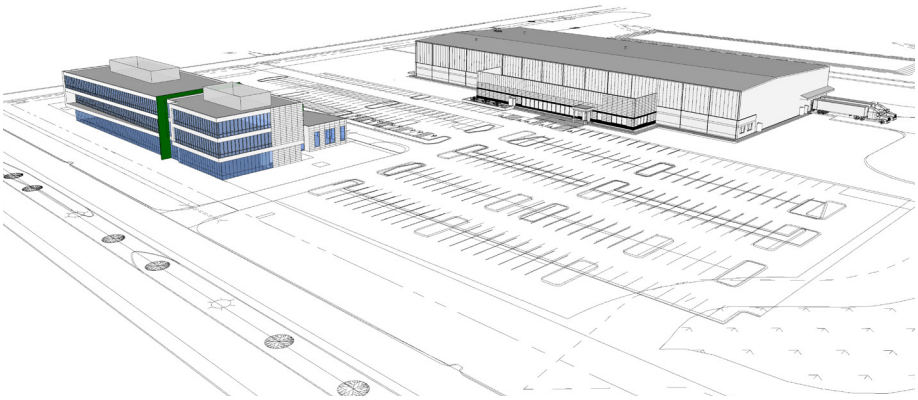













Nature's Way




Nature's Way

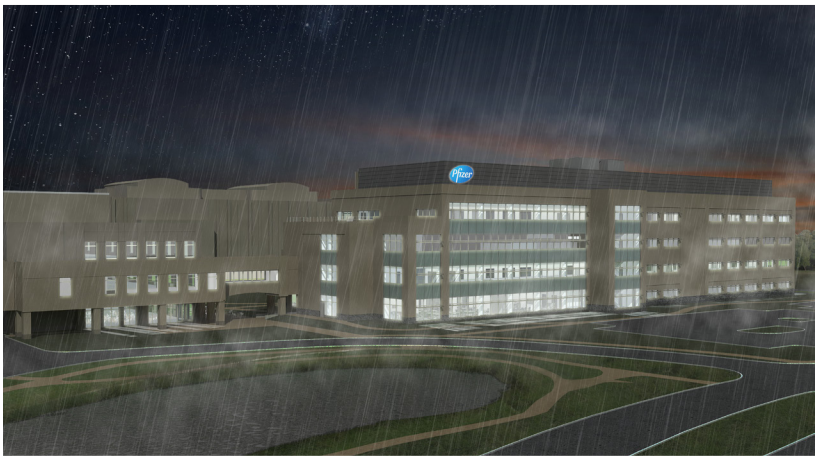

Nature's Way

Visualization

Central Regional Leader

As the regional leader, I am involved in the distribution of the visualization workload across the company and handle most of the visuals for the central region. These include still renderings, animations, diagrams and VR. Our expert team meets once a month to discuss current project needs, future opportunities, new technologies and pull resources to develop and update company workflows. Visualization has become so much more than a final image of the unbuilt – rather, it is an integral part of the design process to help inform decisions and discover new opportunities as we take an idea from inception to completion.














Catalent


GRAND RIVER
ASEPTIC MANUFACTURING










Pfizer