

REQUEST FOR PROPOSAL Professional Civil & Building Design Services Dane County's Sustainability Campus RFP 323027



TABLE OF CONTENTS

Approach to Project & Planning Process	03
Cover Letter	04
Relative Experience & Project Personnel	31
Organizational Chart	36
Resumes	37
Past Project References	56
Pricing Proposal	72
Timeline	73
Limitations	75



1. APPROACH TO PROJECT & PLANNING PROCESS

July 9, 2024

Allison Rathsack Special Projects & Materials Manager County of Dane City-County Building, Room 425 Madison, WI 53703

RE: PROFESSIONAL CIVIL AND BUILDING DESIGN SERVICES AT DANE COUNTY'S SUSTAINABILITY CAMPUS

Dear Allison and members of the evaluation committee:

The Strang/Foth team is excited to present our approach and vision for the Dane County Sustainability Campus project. With a deep commitment to sustainable design and community engagement, we share your passion for creating an innovative and inspiring design that addresses our community's needs and enhances public understanding of sustainability. Our team is particularly enthusiastic about your project's goals of making trash and recycling engaging and fun, as well as its potential to serve as a real-life demonstration of sustainable design and resource stewardship. The project has the exciting potential to have a welcoming public facing entrance not only for the campus but for the entire community as a Gateway to Madison.

Our team's combined experience with waste management infrastructure and new construction commercial projects uniquely positions us to meet the challenges and opportunities of this project. We have successfully completed numerous waste management facilities, including the Brown County South Landfill and Outagamie County Resource Recovery Park, integrating advanced technologies and sustainable practices. Additionally, our portfolio includes various new construction facilities and examples of entire campus master planning where we have demonstrated our ability to deliver functional, high-quality solutions, such as with the Ascent Innovation and Alliant Energy Center campuses. One of the primary challenges identified for this project is addressing public perception. We believe that by integrating engaging storytelling elements and interactive educational programs, we can create an immersive destination that not only changes how people view waste management but also inspires them to adopt more sustainable practices in their own lives. Drawing inspiration from projects like the Summit Credit Union Headquarters, we aim to develop exhibits and programs that vividly illustrate the journey of materials through the waste stream and the importance of sustainability.

Olfactory considerations are another critical aspect of this project. By leveraging advanced odor control technologies and thoughtful site planning, that we have utilized at the AEC New Holland Pavilion for the World Dairy Expo and the Madison Metropolitan Sewage District, we will minimize any potential negative impact on visitors and neighboring communities. By incorporating natural native landscaping and screening, we will further enhance the aesthetic and olfactory environment of the campus.

Ensuring access to educational programs for residential customers is also essential. By designing attractive and accessible drop-off areas and providing clear and compelling incentives for residents to visit the Sustainability Campus, we can effectively bridge this gap.

In conclusion, the Dane County Sustainable Campus project represents a unique opportunity to create a groundbreaking facility that combines functionality, education, and sustainability. As the first sustainability campus of its kind, this is a once-in-a-lifetime opportunity to raise the bar and be the pioneer for how a campus should look, smell, feel and operate. The Strang/ Foth team is eager to bring our expertise and passion to this project and help realize this vision. We look forward to discussing how our background, skills, and ideas align with the goals of this exciting project.

Sincerely,

Kany Barto

Larry Barton, AIA, LEED AP ID+C, WELL AP President | Chief Executive Officer 608.276.9203 | Ibarton@strang-inc.com

1. APPROACH TO PROJECT & PLANNING PROCESS

Design Considerations to Account for Potential Growth of Facilities & Infrastructure

A comprehensive master plan is the most important strategic tool to plan for the potential growth of facilities and infrastructure, and the first step our design team would undertake in working with you.

Strang has extensive experience in master planning at the campus level for businesses, colleges/universities, and governmental client groups. We employ our special brand of design thinking and collaboration, known as Design Synchronicity, to ensure that the final deliverable is a living document that is invaluable to not only the executive leadership team strategically planning for the future, but also the facilities management team.





We achieve this by identifying and engaging project stakeholders early in the planning process, integrating all design disciplines during master planning, and evaluating many potential options for development together as a team. This results in a plan that is not only realistic and executable, but both inspirational and aspirational. We consider development from a global scale in order to integrate building systems and traffic infrastructure early on, minimizing unnecessary redundancy or reconfiguration required in future phases.

We also implement preliminary energy box modeling at the master planning stage, as well as incorporate anticipated maintenance schedules, in order to project capital expenditures over time. With all of these features combined, the result of Strang's proven master planning process is a living document that serves as a robust road map for your future.





Stormwater Design & Infrastructure

The stormwater design for this project creates an opportunity to incorporate natural green infrastructure features that align with Dane County's sustainability goals while fulfilling the necessary erosion control and stormwater management functions that comply with federal, state, and local regulations.

The integration of civil and landscape design will educate and inspire the public regarding the use of native landscaping to handle stormwater management in a sustainable and aesthetically pleasing way. Our team will use some of the following strategies to deliver an efficient and unique evaluation for your stormwater design:

COLLABORATE WITH SCS ENGINEERS:

Hold an initial consultation to establish landfill-specific stormwater needs and overall design goals versus the civil and infrastructure goals and needs.

PHASED INFRASTRUCTURE PLAN:

Develop a conceptual phased plan for stormwater management that adapts to the landfill's growth and ensures future flexibility while protecting the existing golf course during all phases of development.

SUSTAINABLE DESIGN EXPLORATION:

Research and propose various sustainable

stormwater management features (e.g., green roofs, permeable pavement, bioswales) to be evaluated for implementation during the Phase 1 Needs Assessment.

CURB & GUTTER EVALUATION:

Conduct a cost-benefit analysis for minimizing curbs and gutters for sustainable infrastructure, safety, and investigate potential permit variances as needed.

STORMWATER EROSION & SEDIMENT CONTROL :

Draft a preliminary erosion and sediment control plan using organic/sustainable materials to address pre/post development flows for all the storms listed in your RFP as well as maintaining 90% infiltration rates and total suspended solids (TSS) treatment.

Traffic Patterns Associated with Commercial Facilities & Waste Management Infrastructure

The traffic engineering design team understands the complex movement of vehicles and materials through landfills and resource recovery facilities. Separation of larger commercial vehicles from residents and visitors is critical for on-site safety and traffic flow.

Our team will follow through on the conceptual plans by incorporating the following actions into your project:

ENTRANCE(S) FEATURE EVALUATION:

Finalize plans for separate commercial and residential/education entrances. Evaluate industrial-style gates, clear landfill signage, and design appropriate site lighting and security at the commercial entrance off Highway AB. The team will focus on artistic gates, fencing, and aesthetically pleasing signage for residents off Mill Road. This evaluation will identify and plan for the future business park and landfill facility entrance needs.



TURNING RADIUS/TRAFFIC CALMING:

The team will develop comprehensive traffic flow models in AutoCAD that consider traffic calming roadway design and turning radius needs to accommodate 53-foot transfer trailers and other large vehicles.

SUSTAINABLE ROAD DESIGN:

Our experts will approach road design using state-of-the-art design techniques that consider natural road design features and construction materials while implementing roadways, culverts, and other infrastructure to meet or exceed WIDOT and local standards. This could include using recycled asphalt shingles in the roadway mix or other recycled materials.

Another sustainable feature would include integrating native landscaping into the parking lot and driveway design for screening and stormwater management, as utilized in our team's design for the Culver's Headquarters site.

COMMUNICATION SIGNAGE & MARKINGS:

Our team will incorporate clear traffic flow directions using standard signage and pavement markings for vehicles while considering how to communicate through programmable or temporary signs for additional interactions the community may have with the site at different times (ex: cleansweep, other events).



Site Security & Safety

Site security and safety are crutial as we develop the waste and material management infrastructure especially when bringing together commercial vehicles and residential customers.

From a building and structures standpoint, it is essential to strategically plan the layout of card access control, video camera monitoring, and nighttime lighting. Holistically, the site will require strategic landscaping and gated fencing interventions to ensure security. This security combined with focused wayfinding and site lighting, will be key to enhancing the visitor experience while maintaining safe site navigation at all hours of operation.

The design team will implement various strategies to evaluate and explore site security and safety including:

TRAFFIC SAFETY:

Potential traffic safety considerations may include using traffic calming features, clear lane marking, and signs to reduce truck speeds with design considerations to separate residents from commercial customers. Creating multi-lane drop-off areas will allow fast and efficient service for customers to unload in a safe, ergonomic fashion eliminating the need to reverse. We may also provide maps of the site plan to easily guide customers and users.



SECURITY CAMERAS/COMMUNICATION:

Developing a site wide security system could include motion sensors and smart technology for lighting, gate actuation, video monitoring, and alarm annunciation. You may also consider help buttons and audio communication access at customer drop-off centers to avoid unsafe actions. The security fencing or barrier design can vary depending on the location and how important the site appearance is to the community.

SAFETY EDUCATION & PPE:

Our team will use industry standards to develop a site health and safety plan that clearly identifies the areas of the site requiring specific PPE such as, steel toe shoes, safety vests, hardhats, and/or eye protection. During design this information can be used to develop clear signage, painting, and/or warnings that help with customer service safety and user flow while protecting individuals and making operations easier for staff.

FIRE SUPPRESSION:

We recognize and understand the need to address fire suppression in the waste and material management industry; given the high incidence of fires in handling waste and recyclable materials. The presence of lithium ion batteries and other combustible materials in waste and recyclables creates the need for special design attention to reduce fire potential.



Working With Utilities & Relation to Service Territories

Strang/Foth have an in-house electrical engineering team comprising of highly skilled professionals with extensive experience in designing complex campus projects. Our approach involves working directly with utility companies on nearly every ground-up project we undertake. This collaboration is critical in understanding the unique requirements and constraints of each electrical service territory. By fostering strong relationships with utility providers, we see that our projects meet regulatory standards and operate efficiently.

Our extensive experience with utility collaborations and complex projects provides us with the knowledge and skills needed to successfully take on the challenge of working on a site spanning two electrical service territories. We are confident in our ability to navigate dual-service territory integration using our proven methodologies and proactive problem-solving approach.



Potential Challenges

PUBLIC PERCEPTION:

Considering that a major goal of this project is to create a destination that inspires and educates the public regarding waste, renewables, and sustainability, a project challenge and opportunity is to reform the public's perception that a landfill and waste management facility is an undesirable place to visit.

OLFACTORY CONSIDERATIONS:

Another challenge lies in addressing the potential odors emanating from the facility, as experienced by visitors, guests, and neighbors. We will investigate design layouts with olfactory sense mitigation in mind.

PROJECT BUDGET:

Given current construction costs, a challenge would be to successfully achieve all the programmatic requirements desired within the current budget as outlined in your RFP.

A creative solution is required that judiciously and thoughtfully prioritizes design strategies and key elements in order to achieve a "bothand" design, one that achieves the functional and educational project goals while also maintaining your budget requirements.



ACCESS TO EDUCATIONAL PROGRAMS FOR RESIDENTIAL CUSTOMERS:

Stage 1 residential material drop-off areas are anticipated to continue to be housed at the existing Rodefeld Landfill.

In the interim period before the future Stage 2, when residential material drop-off areas will be housed at the Sustainability Campus, there will be the challenge of convincing and attracting residential customers who drop-off materials at the Rodefeld Landfill, to then drive across the highway to the new Sustainability Campus, in order to attend educational programs at the Education and Administrative Center.

Addressing these challenges will be crucial to the project's success, ensuring that the design not only meets the campus's functional and educational goals but also becomes a celebrated model of a sustainable waste management process and continuous community engagement opportunities.



Potential Opportunities

MAKING TRASH & RECYCLING FUN:

A golden opportunity for your project is to create a unique, first-of-its-kind destination that makes trash and recycling fun, engaging, and inspiring. The solution lies in the answer to the question, "What would our community's beloved Trash Lab look like if it were a building and a campus?"

STORYTELLING:

Your facility and campus offer a means to tell an inspiring and engaging story - "The Story of Stuff," the story of where things actually go when we discard them, the impact on the environment, the story of the interconnectedness and beauty of ecosystems on our wonderful planet. For example, the Summit Credit Union Headquarters lobby features a display that tells the story of Summit Credit Union and its place in the broader Credit Union Movement.

AN INSPIRING REAL-LIFE DEMONSTRATION:

Opportunity lies in using the Sustainability Campus and Educational Center as a reallife demonstration of thoughtful sustainable design and stewardship of our precious natural resources. The campus and building design should be energy efficient, with an optimal solar orientation, and be constructed of recycled materials such as reclaimed wood,



while the site stormwater management design is fully integrated with indigenous water efficient landscaping. For example, we utilized reclaimed wood and native Wisconsin plants for a living green wall at American Family Insurance BL2.

At the Wisconsin Economic Development Authority project (WEDC), we utilized reclaimed locally-sourced Cream City brick and collaborated with the Menominee Native American Tribe to create tabletops from sustainably harvested maple wood from their 150-year-old forest.

FRUGALITY AS AN AESTHETIC VIRTUE:

A creative approach to addressing your project's budgetary challenges would be to view "Frugality as an Aesthetic Virtue." Ordinary offthe-shelf materials along with re-purposed trash can be utilized in extraordinary and innovative ways to create a space that is inspiring and beautiful in unexpected ways all while being budget friendly.

For example, we utilized plain light bulbs and inexpensive chain link fence as design elements and reclaimed wood for the bar countertop for an industrial look at the Sylvee/Frank Productions project. Chain link fence can be effectively used as a blank canvas/armature for an artist's installation creating an ever changing focal point and showcase for community engagement.

Note: See page 67 for our project profile about the Habitat for Humanity of Dane County Central Campus & ReStore where we creatively re-used building materials and equipment.





MAKING OUR WASTE IMPACT A TOURISM ATTRACTION:

It's not uncommon to see lookout towers at State Parks, but it is definitely uncommon to have one overlooking a landfill...and that's the point.

Bringing visibility to the waste management process and the not-so-wonderful reality of the wastefulness of our society creates an emotional response when shown firsthand.

Rather than hiding the reality of the landfill from the public, we are proposing to showcase it as a one-of-a-kind educational experience. By educating community members on the efforts that go into managing our waste, especially waste that could be disposed of more sustainably, it will trigger an emotional response to act rather than ignore the impact and reality of our wasteful behaviors.

Since a major goal of your Sustainability Campus is to create a unique destination that makes trash and recycling fun, engaging, and inspiring, this lookout attraction would be a great idea for local field trips. Our team would pull inspiration from the Ken Robl Conservation Park overlook. (See profile on pg 70).

Regardless if the capped landfill becomes a solar field, a biking trail, or a sledding hill, the lookout tower could continue to provide community members with reasons to visit the Sustainability Campus even when they do not have waste to dispose of.





POTENTIAL COMPANIES/ORGANIZATIONS TO BRING TO YOUR CAMPUS: This page features potential partners for your project, each bringing unique expertise and resources to support sustainable

development/recycling.

Total Awards & Promotions Posted by Janet L Gray May 6 · @

Recycled Trophy Sale Day at our non-profit, The Nationwide Trophy Recycling Program. Join us from 10 am to 3 pm today at 6670 Odana Road Madison. The NTRP trophy sale will be the 1st Saturday of every month.



Foam Cycle, LLC Polystyrene Foam Recycling



Trophy Awards & Promotions Trophy Recyling



DeConstruction Inc. C&D Material Diversion



Trex Polyethylene Plastic Film Recycling



Wheels for Winner Bicylce Repair Shop & Donation Center



Sanimax Used Cooking Oil Recovery



7 Rivers Recycling, LLC Mattress & Boxspring Recycling



Andela Product Glass Bottle to Glass Sand Processing



Purple Cow Food Waste



Habitat for Humanity Dane County Retail Front



Eco Strat Biomass



Energia Process Liquid Wastes



Tours



Kwik Trip Landfill Biogas



Madison Children's Museum Demonstrations



Available & Applicable Funding Sources

For the Strang/Foth team, finding solutions to our client's toughest challenges means helping clients find and secure federal and state grant funding to offset total project costs. We are committed to helping you successfully complete your project with the support from our Strategic Funding Group.

During the funding research process, we will create a detailed list of available grant programs. The team actively maintains an internal database of relevant grant programs, continually review our most common agency dashboards, and actively audit several government funding databases and other funding resources. The grant list will provide deadlines, eligibility criteria, and activities required for each covered in the program. You will then receive a customized project strategy to meet your project goals. The strategy will consider important timelines, regulatory concerns, and budgets.

Most grant applications have extensive requirements that can be overwhelming, such as environmental reports, forms, and detailed project scope and costs. Our Strategic Funding Group will explain the application process, gather necessary documents, provide regulatory guidance, and assist in writing the narrative for the application submission. Our team's project managers will assist in planning and engineering deliverables as well as developing the project scope and project costs necessary for the grant applications. Efficient and reliable communication between all stakeholders is our top priority.

In the past five years, Foth has assisted our clients in obtaining more than \$150 M for their projects. Their team is currently working with a county landfill client to apply for US EPA Climate Pollution Reduction Grant funding which may also be a good candidate for your project.

STATE & FEDERAL PROGRAMS:

- Waste Analysis and Strategies for Transportation End-Uses (USDOE)
- Energy Efficiency and Conservation Block Grant (USDOE)
- Solid Waste Infrastructure for Recycling Grant Program (USEPA)
- Low-Carbon Transportation Materials Grants Program (USDOT FHWA)
- Road & Bridge Assistance-Connecting Highway Aids (WIDOT)
- Road & Bridge Assistance-General Transportation Aids (WIDOT)
- Local Roads Improvements (WIDOT)
- Surface Transportation Program Urban (WIDOT)
- Grants for Local Projects (WDOA)
- Recycling Consolidation Grant to Responsible Units (WDNR)
- Environmental and Climate Justice Community Change Grants (USEPA)
- Climate Pollution Reduction Grants (USEPA)
- Community Development Block Grant (HUD/Dane County / City of Madison)
- FY25 Community Projects Funding (CPF) from Congressman Derrick Van Orden

OTHER FUNDING SOURCES:

- Recycling Partnership
- Green Infrastructure Fund (WEDC)
- FOCUS ON ENERGY®
- Midwest Climate & Energy (McKnight Foundation)
- Closed Loop Partners
- The Infrastructure Fund
- Circular Plastics Fund
- Climate United

TAX CREDITS:

- 48C Tax Credit
- 45Q Tax Credit





Green Building Design

The Strang/Foth team shares your passion

for sustainability – not only do we excel in, and have the resume to create sustainable projects, but we also live by these principles in our daily life. We are passionate signatories of the <u>AIA 2030</u> <u>Commitment</u>, an actionable climate strategy that gives us a set of standards and goals for reaching net zero emissions in the built environment by the year 2030.

As designers, it is our responsibility to steward our planet and people. Strang and Foth seek out innovative opportunities for energy efficiency and increased occupant well-being as a part of our mission to create a healthy, safe, sustainable, and desirable experience for our built environments.

We aim to be industry leaders by integrating environmental design into our projects with a focus on resource efficiency. Through this, we maximize building quality, the employee environment, minimize impact to the natural environment, and create added value for our clients.

OUR SUSTAINABLE STRATEGIES INCLUDE:

- Biophilic design
- Indoor air quality planning
- Acoustics and noise reduction
- Social equity and inclusion strategies
- Accessibility and universal design
- Active design strategies
- Energy efficient design
- Renewable energy and solar power system design
- High performance building automation system design
- Water efficient design, rainwater, and gray water reuse systems
- Renewable energy payback analysis
- Shading and glare studies
- Occupant thermal comfort studies
- Ventilation optimization analysis
- Building automation efficiency optimization
- Building envelope thermal modeling
- Water use and rainwater harvesting analysis
- Post-occupancy evaluation
- Manage healthy building materials, Health Product Declarations (HPDs)
- Manage recycled content, regionally extracted materials, Environmental Product Declarations (EPDs), waste reduction







LEED Certification Process

Though there are many paths for integrating sustainability into a design, one of the most prominent and well recognized is the LEED rating system. Not only do LEED spaces benefit both humans and the environment, but they also create future resiliency. Our sustainability experts at Strang and Foth are here to support your journey during every step of the LEED certification process.

Strang's multidisciplinary team of LEED accredited designers has successfully completed numerous LEED Certified projects utilizing our proven "Listen, Discover, Design" process.

We will listen carefully to you, understanding your vision in order to help you achieve your specific sustainability goals.

1 LISTEN

First, we'll meet with your team to understand your sustainability aspirations, areas of interest, and understand how sustainability relates to your overall vision and brand. We want to hear your business and performance goals and what is driving your desire to integrate sustainable design into your project.

2 **DISCOVER**

The discovery phase is where we begin exploring which LEED criteria are most applicable to your sustainability journey. This process starts with a design charrette to discuss the feasibility of various LEED Credit options.

Here, the LEED scorecard is introduced, showing all available credits. As we focus on specific project goals, the team will go through each credit, weighing its feasibility by identifying both opportunities and limitations. Potential credit strategies and available incentives are also evaluated during this phase. A preliminary scorecard is filled out before design commences.

3 DESIGN

Here, the preliminary LEED scorecard is further vetted and team members perform added research and analysis to allow for analysis refinement, cost evaluation, and generation of additional ideas. The project team then reassembles to discuss findings, possible overlapping benefits, and any new opportunities, all while preparing conceptual cost estimates of sustainability-specific work. At the end of the Schematic Design Phase, a final team meeting is held to solidify the LEED scorecard and ensure clear sustainability goals. The project is then registered with the U.S. Green Building Council (USGBC).

During the Design Development Phase, the LEED design and construction objectives are integrated into the design development drawings and preliminary specifications. At this stage, a building energy model will be developed to help inform design decisions and ensure the project's energy goals are on target.

During the Construction Document Phase, all LEED-related design and construction elements are finalized within the document package. Final construction specifications are written, including sustainability specifications and the LEED scorecard for contractor bidding and implementation.

4 EVALUATION

Lastly, Strang's LEED Administrator collects the required documentation and a quality assessment review is performed before ultimately submitting to the U.S. Green Building Council. Your project is then examined and, pending scorecard evaluation, is awarded a LEED accreditation.

City of Madison Permitting Process

Strang has been headquartered in Madison since its founding in 1935. We have completed hundreds of projects within the city of Madison, demonstrating our deep-rooted commitment to the community and our comprehensive understanding of local regulations and processes.

Our Architect/Master Planner for this project, Peter Tan, has over 30 years of experience in getting projects approved by the City of Madison Urban Design Commission (UDC) and Plan Commission. His notable projects include the Ho-Chunk Gaming Madison 4 Lakes District PUD-GDP and the Villager on Park Master Plan and Development. Peter's years of service in the UDC give him unique insights that ensure our projects are meticulously prepared to meet all necessary criteria, are well-received by the commissions, and successfully navigate the regulatory process.

Project Manager Austen Conrad brings 12 years of experience in obtaining municipal approvals throughout Wisconsin. Austen's current role on the Plan Commission in McFarland further solidifies our team's knowledge of how to efficiently navigate complex approval processes.

Project Designer Drew Martin brings several years of experience in City of Madison regulatory approvals through his ongoing design work with Madison College and, most recently, with the Wisconsin Youth Symphony Orchestra (WYSO). The WYSO project, a 40,085-square-foot building located on East Washington Avenue, features three state-of-the-art rehearsal halls, eight studios, nine practice rooms, administrative offices, and a music library. This project, which began construction nearly two years ago and was completed in early 2024, required meticulous planning and coordination with the City of Madison to meet all regulatory requirements. Our team's expertise ensured that the facility not only complied with local regulations but also became a one-of-a-kind cultural jewel for the City of Madison.

WYSO FILE #71278



Commercial Facilities Features

The Strang/Foth design team's unique blend of project experience combines educational institutions, corporate offices, and industrial facilities, seamlessly blending lessons learned from each project type to create new and exciting hybrid building types that best serve the specific needs of our clients. We understand the role education plays as the first step towards building a community around a common set of goals and values, and we have experience creating the types of spaces where communities thrive.

The D-Lab in Rapid City, South Dakota, is one such example. The client, a consortium of local economic development groups, managed a small incubator, but desired a more prominent fixture within the community that could serve as a hub for local entrepreneurs, start-ups, and a new economic development district.

The building itself needed to serve not only its tenants-mainly academics looking to apply their research and entrepreneurs developing prototype products-but also the broader community of innovators, seeking business support in the form of accounting, legal, and strategic planning, as well as community-building and networking.





In this project, all of these features come together around an open two-story community space, flanked by business support operations on one side and community conference rooms on the other. In the center of the community space, a monumental stair serves as both a literal and symbolic representation of the community that is being built within this space–a place for people to meet over lunch, attend presentations, pitch products, and ultimately, engage in the type of synchronicity that leads to a thriving community. Our design team would work closely with you and your stakeholders to identify the type of community you want to foster and identify the building-blocks that would support the growth of that community. Based on what we know so far, one of the features we would be most excited about would be a permanent home and extension of the Trash Lab; an immersive educational experience that incorporates theming and storytelling in order to demonstrate processes, get people thinking creatively about the life cycle of waste, and ultimately inspire people to take a more active role in improving their communities and the world. We would also work with you to incorporate branding elements and hyper-local motifs throughout the development in order to create a thriving campus of retail fronts, artists' studios, demonstrations areas, laboratories, and more that work in conjunction with each other to illustrate a progressive vision of a thriving circular economy – one that can serve as a model for larger scale developments not only in our own communities, but throughout the country.

Waste Management Infrastructure Features

The site improvement and waste management infrastructure design team will use various strategies to evaluate and explore potential design features with you. Features applicable to commercial facilities and waste management infrastructure that could be considered include.

SITE GRADING ANALYSIS:

Explore grading options to minimize cut/fill and preserve existing mature/ native vegetation for screening purposes, traffic management, and stormwater control. Separation of incoming versus outgoing scale traffic could incorporate median style vegetation and stormwater features vs. hard guard rails or curb and gutter.

MATERIAL MANAGEMENT MATRIX:

Develop a matrix for material management that incorporates a phased plan to adjust to add the residential drop-off to the commercial tires, shingles, mattresses, and organic waste drop-off during Stage 2 development. The matrix helps establish material storage design, size, collection schedule, and establishes a clear policy for the typical size and types of customer vehicles using the landfill's working face versus the drop-off center. The matrix can be used to identify and offer flexible space for current and future materials that may have value as a commodity depending on the market.

SCALE FEATURE DESIGN EVALUATION:

The inbound/outbound scale design, number of scales, and the scale house layout will need to be evaluated for operations over the next 20 years. This evaluation should consider inground vs. above-ground scales, winter maintenance, the impact of concrete ramps/rails on traffic flow, and the need for parking, re-weighing, load inspections, and flexibility in scale flow depending on daily customer needs.

CURRENT/FUTURE TECHNOLOGY INTEGRATION:

Review how customer interactions at the scale can be simplified through technology. Accelerate routine customers through the site by installing Radio Frequency Identification Devices (RFIDs), establish tare weight systems, and create customer kiosks to optimize scale operations and minimize the need for attendant interaction.







Use the facility SCADA system to make information available real-time including site security, lighting, utility, and other critical information. Analyze long-term needs to incorporate robust components that can be upgraded to incorporate future technology and systems.

RESIDENTIAL/COMMERCIAL DROP-OFF CONCEPTS:

Create a commercial drop-off area that allows fast, efficient service for customers to unload in a safe, ergonomic fashion. Allow for both dump-trailer and hand unload customers. Similar to the Outagamie County Resource Recovery Park, the County can consider specialty dumpsters for residential unloading that are color coded and ergonomic with a short side to facilitate easy access. Consider the drop-off wall geometry to meet OSHA fall protection without requiring rails that could impede ergonomic drop-off. Develop strategies for managing peak traffic times (e.g., Saturdays, Clean Sweep events) using moveable barriers and/or temporary color-coded signs to separate commercial and residential traffic flows.

MAINTENANCE FACILITY HEAVY-DUTY DESIGN:

The maintenance facility will need to consider the landfill operating equipment such that some maintenance facility bays and access roads to the facility are designed to withstand heavy-tracked compactor, loader, and dozer equipment. In addition, this building should be considered to house other critical features such as a landfill pump equipment maintenance room, water-truck fill station, site-wide communication system, and a SCADA system computer hub.

SITE UTILITY PLANNING & COORDINATION:

The utility planning and coordination will be critical to manage the utility needs of this site over the next 40 years. This is complicated by the multiple service areas and entities that have authority at the site. Critical to this effort is communication often and early with all the utility providers to establish options for service given the current known and future power, water supply, wastewater, communication, and radio telemetry needs across the site. Our team has knowledge and experience to plan and design these systems over the lifetime of the site.



Applicable Federal, State & Local Statutes, Regulations & Codes

The diverse permitting team has familiarity with the vast regulations and codes that this project will need to comply and meet. Our experience applying the rules and the relationships developed with local, state, and federal regulators allows us to navigate the process quickly and efficiently. Our team noted some important things to consider as we design the campus and develop corresponding permit applications.

NR 500 SOLID WASTE MANAGEMENT REQUIREMENTS:

As the needs assessment and design features are developed consideration will be needed regarding where material defined as "solid waste" will be handled, transferred, stored, or processed on-site. The daily throughput quantity and categorization of organics is of particular importance on Lot 1 versus Lot 2 and for setback requirements and permit by rule limits under NR 500. Lot 2 activities should be permitted on the landfill plan of operation and NR 500 permitting for Lot 1 facilities can be minimized. Our team understands the nuances of these requirements to simplify and accelerate the various permit process.





STORMWATER PERMITTING APPROACH:

The stormwater engineers have experience with all of the stormwater permitting requirements under NR 151, NR 216, NR 500 and MGO 37 as outlined in the local approval governance documents. We would suggest taking a phased approach to storm water by developing a series of models to focus clear needs over the life of the golf course and landfill that may allow short term vs. long-term permitting requirements. This idea could allow some smaller sized features earlier in development that will be replaced with larger features later in the life of the site or it could delay the need to make stormwater basin adjustments until future choices are made at the business park, etc.

RESIDENTIAL/COMMERCIAL DROP-OFF CONSIDERATIONS:

The drop off design features will need to consider some specific code requirements that our solid waste engineers understand. For example, Foth has managed our drop-off wall designs to be shorter and ergonomic for customers with an understanding of OSHA industry requirements to avoid complicated rails while still being safe for customers and workers. E-waste, household hazardous, and universal waste collection sites have serious of codes and requirements that require Foth's specialized experience to understand what is important during design.



2. RELATIVE EXPERIENCE & PROJECT PERSONNEL

2A. RELATIVE EXPERIENCE

Commercial Facility Experience

The Strang/Foth team excels in designing commercial and mixed-use facilities that seamlessly blend functionality with aesthetic appeal. Our approach is rooted in understanding the needs of modern organizations and the communities they serve. Whether revitalizing city centers with mixed-use developments or creating bespoke commercial complexes that cater to diverse business requirements, we drive sustainable growth and enrich the environment for occupants and visitors alike.

Our portfolio highlights a commitment to innovation and sustainable design practices, ensuring each project aligns with the strategic visions of our clients and positively impacts the built environment.



Waste Management Infrastructure Experience

The Foth team is known in the Midwest for our outstanding leadership in planning and development of solid waste and material management infrastructure. Many public municipalities ranging from small communities to large regional facilities have found success leveraging our knowledge and expertise. The projects we create are always tailored to the goals and objectives of our clients allowing our team to build award winning solid waste and recycling infrastructure. We are experts in this field.

In 2021, the Foth team completed development of a greenfield landfill site with our client partner Brown County, WI as part of the BOW regional group. (See profile on pg 58). The work completed at the South Landfill site mirrors the Dane County project with planning, design, and construction of a brand-new landfill with corresponding utilities, roads, scales, maintenance buildings and related infrastructure. This complex project included development of a facility master plan, permitting, and phased design and construction with a great team of Foth professionals allowing the site to open on schedule January 3, 2022.



In 2022, the Foth team worked with the counties and Ramsey/Washington Recycling & Energy (R&E) to reduce the percentage of organics in the waste stream through the development of their food scrap bag (FSB) program. (See profile on pg 57). Our expertise included procurement of the bags, procedure development, durability testing, and assisting with the program's warehouse, distribution, and fulfillment components.

Foth helped evaluate participation estimates, from pilot rollout through program maturity, and provided engineering for facility and operational improvements at the R&E Center to remove the FSB's from the trash using robotics. Recovering food scraps from trash will help reach the state's recycling goals and provide health, environmental and economic benefits to the community.



New Construction Experience

The Strang/Foth team boasts extensive experience with new construction builds across large campus environments among others, demonstrated through our recent high-profile projects. Our recent work includes the D-Lab at Ascent Innovation, a cutting-edge innovation hub that supports startups and tech development. We also completed the Summit Credit Union Headquarters, a modern and sustainable space that reflects contemporary design and functionality.

Other recent projects, include the new Veterinary Diagnostic Laboratory at Iowa State University and the UW - Madison Chemistry Building, both of which showcase of our ability to create state-of-the-art educational facilities.

These projects exemplify our commitment to excellence and our ability to deliver innovative and functional new construction design solutions.



2B. PROJECT PERSONNEL






LARRY BARTON, AIA, LEED AP ID+C, WELL AP Principal-In-Charge

EDUCATION

Associate Degree, Architecture Madison College

REGISTRATION/ CERTIFICATIONS

Architect: WI LEED Accredited Professional WELL Accredited Professional

COMMUNITY SERVICE

United Way of Dane County, Chair, 2024 Capital Campaign



ABOUT LARRY

Larry has more than 37 years of expert experience in a variety of campus master planning, including educational, offices, communities and space needs. His background includes master planning studies, extensive renovations, additions, and new building design. A passionate proponent of LEED/sustainable building practices, Larry is equally passionate about WELL Building standards, including its application in the Strang Madison workplace; being the first WELL Gold project in Wisconsin as well as LEED Gold. His leadership has guided many of Strang's most complex projects to successful completion.

- » Alliant Energy Center Master Plan, Madison, WI
- » Ho-Chunk Gaming Madison 4 Lakes District Master Plan, Madison, WI
- » WEC Energy Group Facility Assessments, Milwaukee, WI
- » Madison College Master Plan, Madison, WI
- » University Research Park, Madison, WI
- » Culver's Headquarters, Prairie Du Sac, WI

- » City of Madison, Department of Public Health, East Washington, Madison, WI
- » UW-Richland Master Plan, Richland Center, WI
- » UW Fond du Lac Master Plan, Fond du Lac, WI
- » Stoughton City Facilities Master Plan, Stoughton, WI
- » The Village on Park Master Plan & Redevelopment, Madison, WI
- » Sauk County Space Planning, Baraboo, WI



AUSTEN CONRAD, AIA, NCARB, NCIDO Project Manager

EDUCATION

MArch & Graduate Certificate, Real Estate Development, UW-Milwaukee Bachelor of Science, Architecture Certificate, Urban Planning, UW-Milwaukee

REGISTRATION/CERTIFICATIONS

Architect: WI, CO, SD, ND, MT, KS, OR , UT National Council of Architectural Registration Boards (NCARB) Certification Real Estate Broker: WI

COMMUNITY SERVICE

McFarland Plan Commission, Member



ABOUT AUSTEN

Austen's design approach synchronizes people, systems, business structures, and practices into a process that captures the talents and insights of your organization's vision to optimize project results. He possesses excellent project management, technical, organizational, and administrative skills that drive successful projects. His expertise includes corporate offices, and mixed-use based developments from planning and feasibility through construction.

- National Guardian Life Insurance
 Company Headquarters, Madison, WI
- » American Family Headquarters, Madison, WI
- » Summit Credit Union Branches, Various Locations, WI
- » Stoughton Trailers Headquarters, Stoughton, WI

- » Venture Investors Office, Madison, WI
- » Old National Bank, Neenah, WI
- » Banker's Life, Madison, WI
- » Steinhilber Swanson LLP, Madison, WI
- » West & Dunn LLP, Waunakee, WI
- » Fetch Rewards, Madison, WI



PETER TAN, AIA, NCARB, LEED AP

Architect/Master Planner

EDUCATION

Master of Architecture, Urban Design, Cornell University Bachelor of Architecture, Cornell University

REGISTRATION/CERTIFICATIONS

Architect: WI, SD, TX National Council of Architectural Registration Boards (NCARB) Certification LEED Accredited Professional

COMMUNITY SERVICE

Madison Region Economic Partnership (MadREP) Board Chair City of Madison Urban Design Commission UW Arboretum, Ecological Restoration Volunteer



ABOUT PETER

Peter Tan has more than 37 years of experience master planning and designing awardwinning architecture and urban design projects. Peter's client-focused design philosophy involves a commitment to thoughtful listening in order to create environments that truly reflect users' needs and visions, while responding to their context of time and place. As Strang's Chief Design Officer and Master Planner, he has over 30 years' experience winning project approval at Madison's Urban Design Commission UDC and Plan Commission. His years of service on the UDC provide him with strategic insights into successfully shepherding projects through the regulatory process. As a LEED Accredited Professional, he is passionate about sustainable design and our collective responsibility as stewards of the environment.

- » Alliant Energy Center, Madison, WI
- » Ho-Chunk Gaming Madison 4 Lakes District Master Plan, Madison, WI
- Rapid City Innovation District Master Plan & Ascent Innovation Campus, Rapid City, SD
- » Summit Credit Union Headquarters, Cottage Grove, WI
- » Agora at Fitchburg Center, Fitchburg, WI
- » University Research Park, Madison, WI

- » Culver's Headquarters, Prairie Du Sac, WI
- » Village on Park Master Plan & Redevelopment, Madison, WI
- » American Family Insurance BL2, Madison, WI
- » Iowa State University VDL, Ames, IA
- » SDSMT Master Plan, Rapid City, SD
- » Madison College Master Plan, WI
- » Milwaukee Area Technical College Master Plan, WI



DREW MARTIN, AIA, NCARB Design Architect

EDUCATION

Master of Architecture University of Wisconsin - Milwaukee

Bachelor of Science, Architectural Studies University of Illinois at Urbana-Champaign

REGISTRATION/CERTIFICATIONS

Architect: WI, IA, IN, KY, MI, MN, MO, TX National Council of Architectural Registration Boards (NCARB) Certification

COMMUNITY SERVICE

Strang STEAM Camp, Presenter AIA Architect Mentor Program, Organizer



ABOUT DREW

As an architect, Drew finds great joy in developing creative responses to a variety of client needs. He incorporates innovative design strategies into Strang's client-focused process in order to ensure that each solution appropriately and distinctively addresses the specific requirements that make each project unique. Furthermore, as Strang's Director of Design Visualization, Drew ensures that every design is communicated in a cohesive and coherent manner, using a variety of media to convey complex ideas intuitively, from initial diagrams and construction details, to artistic renderings, and virtual reality.

As the lead designer of the Wisconsin Youth Orchestra project, as well as multiple Madison College projects, Drew has extensive experience navigating the City of Madison permitting process, including rezoning, conditional use approvals, and the variance process, as well as securing City Planning, Engineering, and UDC approvals.

PROJECT EXPERIENCE

- Ascent Innovation Campus, Rapid City, SD
- » Summit Credit Union Headquarters, Cottage Grove, WI
- » South Dakota School of Mines Master Plan, Rapid City, SD
- » Rapid City Innovation District & Ascent

Innovation Campus Master Plan, Rapid City, SD

- » Milwaukee Area Technical College Master Plan, Various Locations, WI
- » Wisconsin Youth Symphony Orchestra Center for Music, Madison, WI
- » Pablo Center at the Confluence, Eau Claire, WI



CINDY SCHUETT, NCIDQ, WRID, IIDA Lead Interior Designer

FF&E and Signage/Wayfinding Designer

EDUCATION

Bachelor's Degree, Interior Design, University of Wisconsin - Madison

REGISTRATION/CERTIFICATIONS

Interior Designer: WI



ABOUT CINDY

Cindy has a portfolio of highly-detailed, beautiful, efficient interior spaces in a wide range of markets including higher education, workplace, and hospitality. She embraces client collaboration and engagement to create dynamic spatial experiences that support and inspire all who enter. Her design sensibilities and eye for sustainable materiality bring interest and energy to her projects while being sensitive to a project's overall impact on the earth. Cindy has over 13 years of experience in all phases of architecture and interior design, from visioning and programming through construction administration.

- » Ascent Innovation Campus, Rapid City, SD
- » Milwaukee Area Technical College Master Plan, Various Locations, WI
- » Student Services Building, El Camino College, Torrance, CA
- » Vista Grande Dining Facility, California Polytechnic University, San Luis Obispo, CA

- Instruction Building, Compton College, Compton, CA
- » Criminal Justice Training Center, Golden West College, Huntington Beach, CA
- Automotive Technology Education
 Building, Pierce College, Woodland Hills,
 CA
- » Vortex Optics Corporate Headquarters, Barneveld, WI



NATHAN ZACH, PE Lead Mechanical Engineer

EDUCATION

Bachelor's Degree, Mechanical Engineering University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI



ABOUT NATHAN

With two decades of experience in HVAC design, Nathan specializes in complex mechanical and controls components. His extensive portfolio includes diverse projects such as science and technology spaces, municipal facilities, higher education, and commercial, with a specific emphasis on primary heating and cooling systems. Nathan channels his expertise towards complex renovations, large-scale projects targeting LEED certification and always welcomes a challenge.

- » Alliant Energy Center, New Holland Pavilion, Madison, WI
- » American Family East Regional Building, Madison, WI
- WISPIC Boiler, Chiller, and Controls Replacement, University of Wisconsin-Madison, Madison, WI
- » Cuna Mutual Facility Remodeling and HVAC Upgrade, Waverly, IA

- University Research Park Accelerator Building and other Various Projects, Madison, WI
- » Carthage College, Straz Science Center Retro-commissioning, Kenosha, WI
- » American Family Building A & B Remodeling, Madison, WI
- » Student Success Center, University of Wisconsin-Whitewater, Whitewater, WI



JOSEPH LEISNER, PE Lead Electrical Engineer

EDUCATION

Bachelor's Degree, Architectural Engineering Kansas State University

REGISTRATION/CERTIFICATIONS

Professional Engineer: WV, MT, OH, PA, WI



ABOUT JOSEPH

Joseph has extensive experience in leading complex, multi-discipline engineering design projects. His expertise spans electrical design, technical analysis, and the resolution of engineering challenges. Joseph applies his design knowledge to power distribution, grounding, lighting design, control systems, equipment specification, and bid analyses. Joseph's designs incorporate energy load calculations and generator requirements to ensure robust and efficient electrical systems that are right sized for each project. Joseph routinely incorporates renewable energy into his design systems while also researching new technologies to advance the electrical industry.

- » Alliant Energy Center Campus Lighting Upgrades, Madison, WI
- » American Family East Regional Building, Madison, WI
- » American Family Insurance BL2 Building, Madison, WI
- » Gebhardt Building, Madison, WI
- » UW Madison Hamel School of Music, Madison WI

- » University Research Park, Various Projects, Madison, WI
- » Confidential Energy Utility, Service Center and Building Evaluations, Various, WI
- » American Family Data Center Cooling, Madison, WI
- » Novartis, Holly Springs, NC
- » WPS Corporate Center, Madison, WI
- » WPS Consolidation, Madison, WI
- » Gammex, Middleton, WI
- » SAFC Verona, WI



BRIAN TYM, PE, GPD Lead Plumbing Engineer

Life Safety Systems Engineer

EDUCATION

Bachelor's Degree, Mechanical Engineering University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI



ABOUT BRIAN

Brian boasts over 35 years of robust experience in engineering, specializing in plumbing engineering design, HVAC services, and demonstrating profound expertise in fire protection and life safety. His diverse portfolio encompasses educational, industrial, and commercial facilities, where he has consistently delivered top-notch solutions. Having excelled as both a construction project manager and construction inspector, Brian has successfully overseen projects across various disciplines.

- » South Milwaukee Water Treatment Facility, Milwaukee, WI
- » Green Bay Water Utility, Green Bay, WI
- » Green Bay Paper, Green Bay, WI
- » Gary Sanitary District Dewatering Building Renovation, Gary, IN
- » Wisconsin Department of Tourism Welcome Center, Kenosha, WI

- » Iowa State University Veterinary Diagnostic Laboratory, Ames, IA
- » Wisconsin Youth Symphony Orchestra Headquarters, Madison, WI
- » Blatz Brewery Condominium Conversion, Milwaukee, WI
- » Sport Arenas Renovations, Green Bay, WI
- » Trail Head Ski Building, Marathon County, WI



TERRY SALLEE CTS, DMC-E, ECP, ESCE

Technology Designer

Telecoms | Data | A/V Specialist

EDUCATION

Bachelor's Degree, Telecommunications Oral Roberts University

REGISTRATION/CERTIFICATIONS

Certified Technology Specialist DM Certified Engineer Extron Certified Control Professional Extron Certified AV Associate Crestron Commercial System Design Dante Certification Level 1 - Audinate Certification



ABOUT TERRY

Terry is an experienced and certified systems designer with a demonstrated history in the AV/low voltage industry including corporate headquarters, commercial spaces, auditoriums, and laboratories. His varied project experience has afforded him a unique skill set.

Stemming from many of the challenges that A/V systems often present, Terry strives to make technology as accessible and user friendly as possible. He works to create tailored solutions that fit all aspects of project requirements as well as contribute to a client's overall mission and vision.

- » Joint Forces Command Center, AV Systems, Madison, WI
- » CUNA Mutual, Business Auditorium, Madison, WI
- » Electronic Theater Controls Headquarters, Middleton, WI
- » St. Norbert College, Cassandra Voss Center, De Pere, WI

- » Madison Area Technical College, Culinary Arts and Conference Center, Madison, WI
- » Gehl Mulva Science Center, De Pere, WI
- » FK Bemis International Center, Fort Howards Auditorium, De Pere, WI
- » Wisconsin Youth Symphony Orchestra Headquarters, Madison, WI



KATIE LOWERY, LEED AP, WELL AP LEED/Energy Expert Controls Engineer

EDUCATION

Bachelor of Science, Mechanical Engineering University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS

LEED Accredited Professional WELL Accredited Professional



ABOUT KATIE

As the Director of Integrated Control Systems and with 20 years of Controls industry experience, Katie provides complete HVAC Controls design for new and renovated buildings. Her passion for sustainability and LEED in building operations enables her to design tailored controls solutions, resulting in high-performing buildings. Katie brings her expertise full-circle by commissioning projects and verifying that functional performance of systems is optimal for new and existing buildings.

- » Alliant Energy Center Expansion, Madison, WI
- » Summit Credit Union Headquarters, Cottage Grove, WI
- » Gebhardt Building, Madison, WI
- » American Family East Regional Building, Madison, WI

- » American Family Data Center Cooling, Madison, WI
- » Nord Gear Headquarters, Waunakee, WI
- » Confidential Research Production Facility, Various Locations
- » Eurofins Food Testing, Madison, WI
- » Fort McCoy Military Base, Ft. McCoy, WI
- » Eau Claire County Jail & Law Enforcement Courthouse, Eau Claire, WI



NATHAN KLETT, PE Resource Management Design Engineer

EDUCATION

Bachelor's Degree, Civil Engineering University of Wisconsin-Madison

Master's Degree, Civil & Environmental Engineering University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS Professional Engineer: MN



ABOUT NATE

Nate has 20 years of experience as a design engineer, material processing equipment specialist, project manager, and construction manager for projects that involve material recovery/recycling system design, construction, and renovation, transfer station design and construction, facility traffic flow assessments, and feasibility studies. He is skilled at evaluating waste processing facilities to determine methods to increase recovery and streamline systems, including the addition of new technologies to recover more materials.

PROJECT EXPERIENCE

- » Racine Waste Transfer Station, WI
- » Landfill of North Iowa Customer Convenience Drop-off Facility, IA
- Ramsey/Washington Recycling & Energy Center Bulky Waste Roll Out & Administrative Building, MN
- » Ramsey/Washington Counties Food

Scrap Bags Addition and Recycling Enhancements, MN

- » Waste Commission of Scott County Single Stream Recycling Center, IA
- » Blue Earth County Customer Service Facility, MN
- » Redwood Renville Counties Material Recycling Facility, MN



CHRIS ANDERSON, PE Site Planning & Design Engineer

EDUCATION

Bachelor's Degree, Geological Engineering University of Minnesota-Minneapolis

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI Zero Waste Principles and Practices, SWANA 2024



ABOUT CHRIS

Chris brings 30 years of experience in the solid waste and resource recovery industry. He has spent his career helping clients achieve their goals by bringing diverse groups together to facilitate and create successful strategies, plans, teams, and partnerships. He has extensive technical experience in this industry but what makes Chris unique is his systematic and creative approach to problem-solving that has produced significant operational efficiencies and cost savings for his solid waste clients.

- » Outagamie County Resource Recovery Park Design and Construction, WI
- » Brown County South Landfill and Facilities Design and Construction, WI
- » Winnebago County Facilities Master Plan, WI
- Shawano, Marathon, and Portage County Intergovernmental Agreement Analysis and Negotiation, WI

- Brown, Outagamie, and Winnebago
 County Intergovernmental Agreement
 Analysis and Negotiation, WI
- » Brown County Renard Island Master Plan, WI
- » Portage County Solid Waste and Recycling Feasibility Analysis, WI
- » Winnebago County End Use Plan Ken Robl Park Creation, WI



CHRIS SAXBY, PE Traffic Engineer

EDUCATION

Bachelor's Degree, Civil Engineering University of Wisconsin - Platteville

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI, IA, MN, SC, IL, OH, SD



ABOUT CHRIS

Chris has worked as a project manager, designer, surveyor, and construction inspector on various types of municipal and DOT transportation projects since 1991. His proven project management skills have paved the way for the successful completion of several major long-term projects. Chris has extensive experience in both rural and urban highway design, bike and pedestrian facilities, roundabout modeling and design, agency coordination, railroad coordination, public involvement, plat preparation, stormwater, and construction management. His versatility has been instrumental in completing major corridor studies and successful highway design projects on time and within budget.

- » Winnebago County Solid Waste/ Recycling Center Traffic Routing, WI
- » Brown County Solid Waste/Recycling Center Traffic Study, WI
- » Verona Road Joint Replacement, Madison, WI

- » US 41 Roundabout Feasibility Study, Winnebago & Brown County, WI
- » Seminole Highway Bridge Raising, Madison, WI
- » University Avenue, Segoe Road to Shorewood Boulevard, Madison, WI
- » Monona Drive Improvements Phase 2, City of Monona/City of Madison, WI



MICHAEL NIMMER, PE Stormwater Engineer

EDUCATION

Bachelor's Degree, Environmental Engineering Michigan Technological University

Master's Degree, Biological Systems Engineering University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI, MI, MN



ABOUT MIKE

Mike has 27 years of surface water hydrology and hydraulic analysis and design experience including the design of stormwater detention/infiltration basins, runoff collection and conveyance structures, treatment swales and waterways, in-stream bed/bank erosion control structures and crossings, design of erosion control and stormwater management plans, nonpoint source pollution control analysis, watershed analysis and runoff modeling, wetland water budget and impact analysis, and stream hydraulic modeling and floodplain analysis. Mike also recently served on a Wisconsin Department of Natural Resources advisory board tasked with revising the State's stormwater infiltration standard.

- » Outagamie County Solid Waste Stormwater Management Plan, WI
- » Brown County Stormwater and Erosion Control Plans, WI
- » Southwest Industrial Park Expansion, Oshkosh, WI

- » Commercial Horizons Development, De Pere, WI
- » Flambeau Mining Company Stormwater Plan, Ladysmith, WI
- » Xcel Energy Stormwater Plan, Ashland, WI



BRIAN SPERRAZZA, PE, PG Geotechnical Engineer

EDUCATION

Bachelor's Degree, Geological Engineering; Geology; Geophysics University of Wisconsin-Madison

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI, AZ Professional Geologist: WI, AZ



ABOUT BRIAN

Brian has provided geotechnical and hydrogeological engineering services in both the public and private sectors for 20 years. His geotechnical services have included drilling and field testing methods, responsible charge for coordination and contracting of subcontractors and field teams, performing predictive 2D modeling and empirical analysis based on sitespecific results from field logging and geotechnical laboratory analysis. His hydrogeologic experience includes quality assurance project plan development, remedial investigations of groundwater, soil, soil vapor, and sediment, design of stormwater infrastructure, water supply wells, groundwater monitoring wells, and remediation systems.

- Cell and Final Cover Design Evaluations for Municipal Waste and Demolition Landfills
 - » Outagamie County, W
 - » Brown County, WI
 - » Otter Tail County, MN
 - » Blue Earth County, MN
 - » Rice County, MN
 - » Scott County, IA

- » Numerous Municipal and Demolition
 Waste Management Facilities Geotechnical Engineering/Models
 Supporting Facility Construction and
 Operations
- » Muscatine Cell Design, Settlement, and Leachate Collection System Evaluation, IA



GWEN CLENDENNING Grant Specialist

EDUCATION

Bachelor of Science, Environmental Studies -Geography Planning University of Nebraska - Omaha

Bachelor of Arts, Broadfield Social Studies University of Wisconsin - Eau Claire



ABOUT GWEN

Gwen has over 16 years of experience preparing a variety of grant applications and providing grant management services for clients. Gwen works closely with clients, project managers, and engineers to research and compile the project narrative, scope, budget, goals and other grant required data into a cohesive grant application while ensuring the requirements for applications are understood and adhered to. Gwen has prepared USEPA Brownfield Assessment and USEPA Great Lakes Restoration Initiative program applications for a dozen Midwest communities. She has also prepared federal and public/private grant applications and/or managed awarded grant funding for USDOT FASTLANE, USDOT MARAD PIDP, FEMA Pre-Disaster Mitigation, FEMA Building Resilient Infrastructure & Communities, and many others.

- » Outagamie County Solid Waste
 Infrastructure for Recycling Infrastructure,
 WI
- Becker County, MN Solid Waste
 Infrastructure for Recycling Infrastructure
- » WI DOA CDBG Public Facilities, WI

- » WI DOA CDBG Planning, WI
- » USEPA Brownfield Assessment Program
- » FEMA Building Resilient Infrastructure & Communities
- » WDNR Stewardship Program
- » WDNR Site Assessment Grant



PRESTON BAKER, PE Structural Engineer

EDUCATION

Bachelor of Science, Civil Engineering (Structural Emphasis) University of Wisconsin - Platteville

REGISTRATION/CERTIFICATIONS

Professional Engineer: WI



ABOUT PRESTON

Preston is a Structural Engineer / Partner at MP Squared Structural Engineers where he is responsible for project engineering and management. He provides technical expertise to clients and works with contractors to quickly resolve field issues during the construction phase. Preston has over ten years of structural engineering experience involving design and analysis for various commercial, industrial, residential, and government projects. He has worked on several projects gaining experience with designing and detailing structural engineering solutions for wood, steel, masonry, and concrete structures. Preston also has experience performing feasibility studies, building investigations, and many structural evaluations for concrete parking structures. In addition, he has extensive experience with concrete maintenance and rehabilitation; and building information modeling (BIM) using Autodesk Revit.

- » Morain Park Techincal College Expansion, West Bend, WI
- » Heritage Credit Union, Deforest, WI
- » First Quality Paper Facility, Anderson, SC
- » Phoenix Labs Phase 2, Fitchburg, WI
- » Hop Haus, Fitchburg, WI
- » Dane County Parking Ramp Restoration, Madison, WI



CHRIS SINA, PLA, ASLA Landscape Architect

EDUCATION

Bachelor of Science, Landscape Architecture University of Wisconsin - Madison

REGISTRATION/CERTIFICATIONS

Professional Landscape Architect: WI

COMMUNITY SERVICE

Lecturer, UW - Madison Department of Commissioner, City of Fitchburg Parks Commission

Board of Directors, Friends of Allen Centennial Gardens



ABOUT CHRIS

Chris Sina is a landscape architect and project manager with Saiki Design. He has worked in the public and private sectors on a variety of project types including site analysis, concept design, site planning and design, green roof design, planting design, cost estimating, construction documentation, and construction administration. Chris enjoys collaborating with other disciplines, trades, and project stakeholders to create informed designs that are usable, durable, and sustainable. He is enthusiastic about the details, materials, and finishes that elevate the style and function of a design.

- » Dane County Landfill Site No. 3 Expansion, Planting & Landscape Restoration Design, Madison, WI
- » Dane County Landfill Vertical Expansion Planting and Restoration Design & Documentation, Madison, WI
- Imagination Center at Reindahl Park, Site Planning, Planting, & Landscape Design Madison, WI
- W Credit Union Excelsior Campus
 Planning & Corporate Headquarters
 Site, Green Roof & Courtyard Design,
 Madison, WI



TOM MIDDLETON Cost Estimator

EDUCATION

Bachelor's Degree, International Business, Frostburg State University

REGISTRATION/CERTIFICATIONS

Certified Professional Constructor with the American Institute of Constructors

PROJECT PERSONNEL



ABOUT TOM

MC

Tom has over 20 years of experience in the commercial construction industry. Tom has worked on a wide variety of institutional, educational and health care projects in both handson and management roles. As chief estimator, Tom has worked on a number of projects throughout Wisconsin for the Department of Facilities Development. Tom is a Certified Professional Estimator with the American Society of Professional Estimators.

- » Madison Municipal Building, Madison, WI
- » Dane County Regional Airport Snow Removal Equipment Facility, Madison, WI
- » Epic Systems, Verona, WI
- » UW-Madison Chemistry Renovation, Madison, WI
- » Nicholas Recreation Center, Madison, WI

- » UW-Madison Ingraham Hall Renovations, Madison, WI
- » UW-Madison Wendt Commons, Madison, WI
- » DNA Lab, Wisconsin DOJ, Madison, WI
- » Green Bay Airport, Green Bay, WI
- » Olbrich Botanical Gardens, Madison, WI

3. PAST PROJECT REFERENCES

RESOURCE RECOVERY PARK

Appleton, WI

Foth has worked with Outagamie County Recycling and Solid Waste Department (OCRSWD) for over 20 years to increase recycling and waste diversion at their landfill and recycling facility campus. OCRSWD and Foth teamed together to develop a resource recovery and drop-off facility to increase the options and volumes of materials diverted from the landfill with the goal of maximizing the existing landfill's airspace, and improving convenience and safety for residents.

The Resource Recovery Park (RRP) created improved customer drop-off opportunities for recycling, trash, furniture, mattresses, clean wood, construction and demolition waste, rigid plastics, and metal by using color coded and ergonomically designed low-wall dumpsters. The design allowed for additional drop-off resource recovery programs, such as polystyrene foam, latex paint, and waste cooking oil.

Relevance to your project:

- Planning to provide a comprehensive review of options and needs
- Permitting and construction for specific material specifications and safety
- Layout, traffic flow and location of elements for optimum efficiency
- Education and outreach planning support





• SERVICES: Integrated Solid Waste Management Planning/Facility Planning, Permitting, Design Engineering, Construction

• START/END DATE:

- Master Plan: 2016 / 2018
- Design & Construction: 2019 / 2020

PROPOSED/ACTUAL BUDGET:

• Master Plan: \$45,000 / \$48,000

- Design & Construction: \$65,000 / \$50,000
- **REFERENCE:** Greg Parins
 - Director
 - Outagamie County, Wisconsin
 Department of Recycling & Solid Waste
 - Greg.Parins@outagamie.org
 - 920.832.1521

BROWN COUNTY SOUTH LANDFILL

Holland, WI

Brown County's South Landfill was a greenfield site originally permitted for a county solid waste landfill in the 1990s. The project was set aside for the future as part of a regional solid waste disposal agreement between Brown, Outagamie, and Winnebago Counties, known as BOW. As part of the agreement, the South Landfill was the last site to serve as the regional solid waste disposal location under BOW.

Working in tandem with the County, Foth planned, permitted, designed and constructed the ~\$17 million new regional facility including all roads, utilities, buildings, scales, leachate storage tank, and the 26-acre composite lined landfill cell. Completion of the South Landfill within the County's required schedule allowed the BOW partners to have the needed regional landfill disposal capacity on time.

Relevance to your project:

- Master Plan provided for future resource recovery facility needs including organics management & sustainable landfill expansion
- Designed for existing powerline utility easement and maximized landfill disposal capacity while minimizing re-permitting activities





- SERVICES: Integrated Solid Waste Management Planning/Facility Planning, Permitting, Design Engineering, Construction
- START/END DATE:
 - Master Plan: 9/17 / 6/15
 - Design & Construction: 7/20 / 12/21

- PROPOSED/ACTUAL BUDGET:
- Master Plan: \$90,000 / \$117,000
- Design & Construction: \$1,166,000 / \$1,296,000
- **REFERENCE:** Dean Haen
 - Director
 - Brown County, Wisconsin Port & Resource Recovery Department
 - haen.dr@co.brown.wi.us
 - 920.492.4953

RAMSEY/WASHINGTON ORGANICS RECOVERY

Newport, MN

Ramsey/Washington Recycling & Energy is making significant investments to maximize the recovery of resources and divert as much as possible from landfills to reach the Minnesota Metro counties' 75% recycling goal by 2030.

Organics, including food scraps, make up about 20-25% of trash collected in Ramsey and Washington counties by weight. The Food Scrap Bags (FSB) program is allowing households in Ramsey and Washington Counties to voluntarily participate in food scraps collection and recovery. Foth provided a preliminary design and costs for a building, sortation equipment, and operations and maintenance for the FSB program; prepared Requests for Proposals (RFPs) for the FSB manufacturer and evaluated the FSB manufacturers bags. Foth also provided the preliminary design of the FSB processing equipment and a separate recyclable recovery system, including estimating the amount of recyclables that could potentially be recovered. Our team also researched the end market demand for finished food scraps-derived compost (FSDC).

Relevance to your project:

- Large metropolitan area resource management facility
- Innovative program for organics recovery
- Landfill diversion





- **SERVICES**: Design, Cost Estimating, Procurement, Research & Analysis
- DATE OF SERVICES: 2019 Ongoing
- DATE OF COMPLETION: Ongoing
- **BUDGET:** Included within annual NTE proposed budget, \$460,000 (actual to date)



- **REFERENCE:** Sam Holl
 - Ramsey/Washington Recycling & Energy
 - Facility Manager
 - sholl@recyclingandenergy.org
 - 651.768.6678

RAPID CITY INNOVATION DISTRICT & D-LAB AT THE ASCENT INNOVATION CAMPUS

Rapid City, SD

The Ascent Innovation Campus, and the D-Lab facility itself, is a catalyst for fostering innovation and the flourishing of new ideas. In addition to the 25,000 SF of flexible tenant space and administrative offices, the facility provides spaces for collaboration, cocreation, meetings, and events.

Through our hands-on design approach, Strang developed a deep understanding of local Black Hills culture, consistently seeking local input on all aspects of the project. The result is a high-profile design rooted in the local community and culture, a design that embraces the culture of hard-work and practical innovation.

Strang's work in Rapid City began by collaborating closely with the Rapid City Economic Development Foundation and other local business development groups to identify the most appropriate sites for an innovation district. We first identified areas that would support continued

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- SERVICES: Architecture, Interior Design, Environmental Branding, Low Voltage/ Security, Energy Modeling, Construction Administration
- DATE OF SERVICES: 7/18-12/20
- PROPOSED/ACTUAL COMPLETION: 5/20
 / 12/20

- PROPOSED/ACTUAL BUDGET: \$13.3 M / \$12.8 M
- **REFERENCE:** Terri Haverly
- Ascent Innovation, Former Executive
 Director
- terrihaverly57@gmail.com
- 605-390-4616

growth for many decades, and then evaluated each potential site on a number of criteria, including traffic, visibility, public transportation, cost, and economic potential.

Based on the recommendations of this study, we identified the area between the School of Mines and Downtown Rapid City as the ideal location to realize untapped potential. We met with established local business leaders to understand their dream for the future of Rapid City, but, just as importantly, we met with students at the South Dakota School of Mines and current tenants of the existing Ascent Innovation incubator to understand their specific needs as the next wave of innovation in Rapid City.

SUSTAINABLE STRATEGIES

The Ascent Innovation Campus's location in an underutilized urban area went a long way to achieving sustainability goals for the client. Sustainable site and landscape design strategies of the campus include on-site stormwater management basins integrated with native plantings.

The building massing is also oriented in an east-west direction to maximize the benefits of solar orientation. Horizontal sunshades on the south facade and vertical sunshades on the west and east provide cool daylighting into the interior of the building. At the urban scale, the campus sits at a major intersection of the city's new comprehensive pedestrian and bike infrastructure plan, as well as a major public transportation route.

THE D-LAB

We designed the D-Lab facility from the ground up around a proven structural bay module that easily accommodates uses ranging from private offices to highperforming wet labs. All tenant spaces are designed as column-free spaces further enhancing the flexibility to subdivide these spaces as needed.

The D-Lab at the Ascent Innovation Campus plays an important role in workforce development and the retention of talent for the Rapid City community. The goal of the D-Lab facility was to create more than just a space to work. It is meant to serve as the catalyst for further development of the Ascent Innovation Campus and the surrounding Innovation District. The building itself is an open invitation to join a community of small business owners, entrepreneurs, students, freelancers, and city residents dedicated to bringing their ideas to life in Rapid City.



PAST PROJECT REFERENCES





ALLIANT ENERGY CENTER CAMPUS

Madison, WI

As the region's premier venue for conferences, educational seminars and expositions, this campus is carefully designed to support the complex needs of these multifaceted events.

Strang's team has worked closely with the Alliant Energy Center for over 20 years. Projects include master planning of the entire campus, the current Exposition Hall, and the New Holland Pavilions, a multipurpose facility of over 290,000 SF.

The New Holland Pavilions are designed to be a world-class venue for the World Dairy Expo, with all the infrastructure to accommodate the animals, equipment, and technology for this international event. As will be required of the Dane County Sustainability Campus, the New Holland Pavilions ventilation system is well equipped to handle odor control. In keeping with the agricultural theme, the design of the facility gives a subtle storytelling nod to the farm, with the utilization of ordinary off-theshelf materials in creative ways, connecting the building to the industry it serves.

The Exposition Hall offers a state-of-the-art educational and conferencing facility for a wide range of community and corporate events.



• SERVICES: Master Planning, Architecture, MEP Engineer, Interior Design, Energy Modeling, Construction Administration, Building Condition Assessment

• DATE OF SERVICES:

- 1994 Alliant Energy Center
- 2014 New Holland Pavilions
- 2018 Master Plan
- 2019 Phase 1 Pre-Design
- 2024 Exhibition Hall Expansion
- 2024 Lighting Design Upgrades
- 2024 HVAC Controls Upgrades

- PROPOSED/ACTUAL COMPLETION:
 - New Holland: 9/14 / 9/14
 - Exhibition Hall Expansion: 5/24 / Current
 - 2024 HVAC Controls: 9/23 / Current

PROPOSED/ACTUAL BUDGET:

- New Holland: \$22 M / \$21.9 M
- Exhibition Hall Expansion: \$103 M / TBD
- 2024 HVAC Controls: \$2 M / TBD

• **REFERENCE:** Eric Urtes

- Dane County Public Works
- Project Manager
- urtes.eric@countyofdane.com
- 608.266.4798





PAST PROJECT REFERENCES

The campus master plan developed several options to create/improve viable exhibition opportunities within the allotted arena and convention space. Our team addressed and balanced the desired vision for the campus with the evolving needs of visitors, convening industry, and the growing regional community in mind. The facility's location near lakes and greenspaces, and within a diverse, economically challenged area, emphasized a need to seek positive/environmental equity.

Relevance to your project:

- Analyze site conditions including traffic patterns, parking, and existing buildings
- Identify and define planning considerations such as vehicle, pedestrian and service

access, adjacencies, future facility locations, and utilities

- Develop a program summary, including existing and future buildings, to meet longterm goals and establish master planning parameters
- Accomplish a step-by-step planning process that develops site plan schemes for consideration, and ultimately selecting a preferred option, or hybrid of various schemes
- Describe the selected master plan design, including conceptual site and building plans, design features, key elements and concepts for phasing, and sequencing of future construction





MADISON METROPOLITAN SEWER DISTRICT (MMSD) -SHOP ONE

Madison, WI

What was initially a project to just improve the acoustics and lighting in a large space turned into an opportunity for Strang to enhance our client's One Water mission of "stimulating water connections, engaging and empowering water stewards".

Strang designed acoustical and lighting features around the theme of "water". Most prominent are ceiling elements built in the shape of the regional lakes within MMSD's service boundary. Integral edge lighting enhances their dominant visual effect. Additionally, wall elements made of wood and other materials suggest themes of natural (trees) vs machined (pipes) methods of transporting water.

All room features not only help to tell a story, but function as improving the acoustics in this flex space. As stated by MMSD, "Shop One is both a physical building and a concept or approach to expanding the traditional operating model of the wastewater treatment plant. The building has a large meeting room repurposed into a flexible, communityoriented space to help the District tell our story... to convey the One Water message."



- **SERVICES**: Architecture, Engineering, Acoustics
- DATE OF SERVICES: 8/18 12/19
- PROPOSED/ACTUAL COMPLETION: October 2019 / December 2019



- PROPOSED/ACTUAL BUDGET: \$170,000 / \$159,000
- **REFERENCE:** Michael Mucha
 - Madison Metropolitan Sewerage District
 - Chief Engineer and Director
 - Designated Representative: catherineh@ madsewer.org
 - 608.709.1893

SUMMIT CREDIT UNION HEADQUARTERS

Cottage Grove, WI

This LEED Silver certified building is designed to reflect and support the vision and mission of Summit Credit Union to serve their members and be thoughtful stewards of the environment.

The site has been master planned to create a future campus of buildings centered around the landscaped central green space.

Stormwater management is carefully integrated into the landscape design, with stormwater management ponds providing visual interest and ecological education on the campus. Native prairie plantings are used extensively to anchor the campus into its ecological context.

Storytelling is utilized throughout the building to inspire and educate members, engage employees and articulate the history of the organization. The on-site credit union branch is themed as a theme park - "Summit Inspiration Park," that inspires Summit members to steward their financial resources in order to achieve their life goals, including starting a business, college education, a Northwoods cabin, a wedding, a home remodeling, or a dream home. The lobby









- **SERVICES**: Master planning, programming, architecture, MEP engineering, interior design
- DATE OF SERVICES: 2016-2019
- PROPOSED/ACTUAL COMPLETION: March 2019 / June 2019
- PROPOSED/ACTUAL BUDGET: \$38.5 M / \$39.25 M
- REFERENCE: Jeremy Eppler
 - Summit Credit Union, VP Risk Management
 & Facilities
 - jeremy.eppler@summitcreditunion.com
 - 608.243.5000

and auditorium pre-function space includes a display that tells the story of Summit Credit Union and its place in the broader Credit Union Movement. Informal breakout spaces with themes, like "beach", "sports", "zen woodsy," voted on and selected by Summit staff themselves are located on each floor and provide fun and creative places for staff to unwind and collaborate.

Flexible meeting, training, and educational spaces, including an auditorium and training rooms with moveable partitions, are fully equipped with the latest A/V, and conferencing technology to accommodate active learning styles.

Workspaces are designed so that private offices are located inboard, and open office areas are located outboard, providing egalitarian access to daylight and views.

A raised access floor system in the office areas provides more healthy delivery of ventilation air from below and flexibility for electrical and IT infrastructure and future reconfiguration of the work spaces.











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PAST PROJECT REFERENCES

HABITAT FOR HUMANITY OF DANE COUNTY CENTRAL CAMPUS

Madison, WI

The Habitat for Humanity of Dane County (HFHDC) Central Campus consolidated the organization's key operations into a single facility for the first time, enhancing its ability to serve the community. HFHDC aims to build a more equitable community, with nearly 60% being people of color, in achieving stable homeownership. This new hub integrates the ReStore, administrative offices, and training spaces under one roof, replacing dispersed locations across Madison. Thoughtful planning and space division was vital to maximize the building's programming and create an open, easy to navigate space.

The design team prioritized sustainability by incorporating reused materials and secondhand items from Habitat's ReStore, including repurposed cabinetry, furniture, and a toolbox transformed into a kitchen island. This approach not only reduced costs for Habitat but also enriched the space with a sense of the organization's mission.

This multifunctional space not only supports daily operations but also serves as a training ground for volunteers and new homeowners, embodying Habitat's mission to foster self-reliance and improve lives through shelter stability. The Central Campus stands as a testament to design's transformative potential in promoting equity, community empowerment, resiliency, and sustainability.



Each year, HFHDC builds approximately 15 houses in Dane County. With the increased efficiency and revenue of the new central campus , it's estimated that will increase the year's build to at least 17 houses!



- SERVICES: Architecture, interior design
- DATE OF SERVICES: April 2022-April 2023
- PROPOSED/ACTUAL COMPLETION: April 2023 / April 2023
- **PROPOSED/ACTUAL BUDGET:** \$35,345 / \$40,855
- **REFERENCE:** Valerie Renk
 - CEO, Habitat for Humanity of Dane
 County
 - 608-235-5595
 - vrenk@habitatdane.org

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PAST PROJECT REFERENCES

HO-CHUNK GAMING MADISON 4 LAKES DISTRICT & MASTER PLAN

Madison, WI

After years of study, Ho-Chunk Gaming Madison is proposing a major expansion of its casino, a hotel, heritage center, convention center, restaurants, and parking garages for its 47.5-acre property. The goal is to create a casino-hotel-convention center campus, or "a cultural and entertainment destination, with a modern, forward-looking feel". The design reflects the historic importance of gaming in Ho-Chunk culture and celebrates the Ho-Chunk tradition of gracious hospitality.

The site and landscape design involves sculpting the land to define and create space. The Great Circle will use berming to screen the parking structures, creating view corridors and reflecting the Ho-Chunk heritage and tradition of mound building. Circles are important in Ho-Chunk culture as the form of their gathering spaces, and this is reflected in the Great Circle and the Great Room of the Heritage Center.

The Heritage Center is designed to fulfill the goal of sharing, preserving, and celebrating the stories of the Ho-Chunk Nation, who has made the Madison area, the "Four Lakes" region their home for thousands of years. As is the case with the rest of the campus, the architecture of the Heritage Center is designed with an abstract approach to create a more timeless context for celebrating and honoring the culture of the Ho-Chunk people.





- SERVICES: Master Planning
- DATE OF SERVICES: 2018-2019

PROPOSED/ACTUAL COMPLETION:

- Master Plan: 2019 / 2019
- Design & Construction: 2028 / TBD

- PROPOSED/ACTUAL BUDGET:
 - Master Plan: \$833,500 / \$956,375
 - Design & Construction: \$4,367,500 / TBD
- **REFERENCE:** Dan Brown
 - Ho-Chunk Gaming Madison
 - Executive Manager
 - Dan.Brown@ho-chunk.com
 - 608.223.9576



SITE

A: The Great Circle I: Main Entry B: Casino Drop-off/Valet C: Hotel Drop-Off/Valet D: Heritage Center Drop L: HWY 90/94 Off M: Gas Pipeline Easement E: Restored Wetland with Walking Trails F: Outdoor Amphitheater G: Pedestrian Walkway Below Roadway

BUILDINGS

J: City of Madison Park

K: Secondary Entry

- H: Photovoltaic Screenwall 1. Heritage Center 2. Casino Expansion And
 - Remodel
 - 3. Conference Center
 - 4. Hotel, Spa, Restaurant, Parking, Garage
 - a. Hotel
 - b. Spa
 - c. Restaurant (90 Seat)

ENVIRONMENTAL GOALS

This project is deeply rooted in the Ho-Chunk nation's connection to their ancestral homeland and stewardship of the land. The site, civil engineering, and landscape architecture is conceived with this goal of honoring, connecting, and restoring the land. The existing wetland on the site will be carefully restored, and the surrounding prairie and oak savanna will feature interpretive walking paths that enable the visitor to enjoy the beauty of the landscape and learn from the experience.

SUSTAINABLE FEATURES

- This project meets the Ho-Chunk Nation's Bill of Rights for Nature Wetland restoration and preservation of site water quality
- Restoring and protecting acoustic quality of the site from the highway
- Central/high efficiency mechanical utility plant
- Earth-coupled heat pump system. The 300,000 SF (7 acres) "geothermal" field will be as large as the similar system at EPIC's campus in Verona. The commitment to use a hybrid groundcoupled heat pump system has the impact of reducing the heating/cooling "carbon footprint" by as much as 30% and saving as much as 12 million gallons of potable water per year as compared to a typical design
- Underfloor air distribution in the casino for energy efficiency
- Uniquely smoke-free casino, resulting in exceptional indoor air quality
- Low salt use, waste heat-recovered ice melt system
- A solar photovoltaic array is integrated into architectural screening of the parking structures and will be sized to provide base electrical needs as well as to completely offset the Heritage Center, making it a net-zero energy facility
- Green roofs
- Rain water/grey water capture and re-use
- Compressed natural gas shuttle/maintenance vehicle fleet
- The campus is part of a larger eco-destination including the Dane County landfill park transformation plans

d. Parking Garage

6. 150 Seat Restaurant

7. Future Development

e. Central Plant

5. Parking Garage

Site

KEN ROBL CONSERVATION PARK

Oshkosh, WI

The Ken Robl Conservation Park is part of a closed landfill property managed by the Winnebago CountySolid Waste Department. The Solid Waste Department has partnered with the Winnebago County Parks Department to help maintain designated use areas within thepark.

Professionally developed informational signs are located throughout the Ken Robl Conservation Park. Visitors may take a leisurely stroll along the fully accessible trail to learn more about park flora, fauna, natural history of the region and the landfill site which was used by Winnebago County residents from 1968 to 1989. Wildlife is also prominent through the park. Deer, waterfowl, amphibians, game birds, and song birds are common sights.

Local youth leaders participating in Scouting Advancement activities developed life skills by completing educational, beautification and wildlife habitat projects for use in the Ken Robl Conservation Park. The youth organized projects resulted in supplemental educational signs, park benches, and bird nesting boxes installed along the walking path.





DANE COUNTY LANDFILL PLANTING

Madison, WI

Saiki Design worked on three different Dane County Landfill expansion projects, providing planting and landscape restoration design and documentation services for various sites and expansions throughout the years.

In 2014, Saiki Design completed planting and landscape restoration plans for the Number Two (Rodefeld) Landfill Eastern Expansion Project which included supplemental plantings and existing vegetation protection for the berm placed along US Highway 12/18 and CTH AB.

Recently, Saiki Design has provided planting and landscape restoration design and documentation services for two additional landfill expansion projects. Saiki Design completed planting and landscape restoration plans for the Number Two Eastern Vertical Expansion project in 2021 and is currently working on the Site Number Three project.

Throughout the course of all projects, Saiki Design worked within the parameters outlined by the County's development plans which indicate that a vegetative buffer of large trees, composed of 75% evergreen tree species,



One of the proposed plans indicating a diverse mix of evergreen and deciduous trees to screen

be provided to ensure compatibility with adjacent land uses.

The plant palette crafted by Saiki Design for these three projects relies heavily on the deployment of native and adaptive tree species, does not require irrigation, and is specified at a mix of sizes and species to create a long-lasting urban tree buffer. Species diversity, year-round color and texture, evergreen massing, and mature species size were all studied to ensure compatibility with buffer requirements and maintain a diverse vegetated buffer and ensure adequate screening from adjacent existing and future land uses.

4. PRICING PROPOSAL

*See separate proposal uploaded to OpenGov
5. TIMELINE

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5. TIMELINE / GANTT CHART



6. LIMITATIONS

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LIMITATIONS

We do not have any limitations or conditions to include with the Draft Professional Services Agreement (Attachment H).





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