Executive Summary

Owens Architects offers a unique group of services that are derived from experience developed work flows well suited for concepts design creation and communication of a design to a group of stake holders.

Charette Participation...our design team has been involved with charette design opportunities for various types of facilities including process driven structures.

BIM (Building Information Model)...Owens has been advancing our BIM design tools for 7 years resulting in a proven work flow that offers many advantages for concept design development.

Green Design...we have moved our BIM design to simulate and test shading devices and natural light design option for a holistic sustainable design.

LEED Projects...we have one LEED silver constructed and another under construction and our principle architect has been LEED accredited since 2002.

Digital Content...we have been able to leverage our BIM design workflow for visualization content that communicates and creates a means to gain consensus among a project team. Examples of this content are contained in this proposal.

Communication Tools...digital content delivery options have been developed and are ready to communicate with a design team any where in the world.

BIM Services... our experience with providing BIM support services to our clients that are under contract for the federal government projects allows us to offer full discipline 3D modeling capabilities including process systems related in conjunction with building support systems.

Relevant projects...we have provided some of our current work projects that highlight our work experience and the content produced for those projects.

Links are present throughout this PDF to more detailed information on our website mouse over the text and images to activate the links.
Oa has charette team design experience

Early line content illustrates the options and provides a visual language for design considerations.

Composite sheets communicate complete design proposal

Roof Isometrics
The Plan
Perspective
Image walk around

Exploded Isometrics
Plan from above
Interior Perspectives

Early Content Animation

Systems Incorporation
BIM Design

Building Information Model

**Design concerns tested**...These computer based tools allow for a flexibility and cost effective approach to ensure that all concerns expressed by the client can be studied and confirmed through people friendly models, drawings, and images. The movement of natural light can be simulated and tested within the context of the real world site conditions to ensure shade devices will control the extremes of the light in the spaces. This ability to simulate conditions within the design can provide a more balanced design between the envelope of the building in relation to the interior spaces. The context of the site can be studied in a quantifiable way to confirm design principles. We are currently simulating light movement and we are advancing toward simulation of air movement and energy consumption studies. These tools are made possible by this BIM technology and presents itself as a promising future for design in these challenging times.

**Material quantities extracted from BIM for cost option studies**

**Energy use comparison simulations**

**Construction Sequence options considered**

Options explored and isolated for detailed study

Construction Sequence Studies 4D simulations

Striving to make a difference with each design opportunity
Green Design

See our Green Design web page to learning more about sustainable design work.
Environmental stewardship...Owens architects is striving to make a contribution with every design opportunity to conserve and help maintain the world's resources promoting a healthy living environment for our children. Jeff Owens is a Leadership in Energy and Environmental Design (LEED) accredited professional. LEED is a system of tested design strategies that can be employed during the design and construction process to create a more environmentally friendly construction process and structure. These strategies are employed with careful consideration in regard to the constraints of the budget.

**LEED Projects**

**LEED Accredited Professional**

**Since 2002**

Completed LEED Silver

See the video tour of this completed project

Under Construction LEED Silver

Link above to project page for this project
**Digital Content**
Visualization: A key to communicating concept design

Animation

Multimedia Presentation

Rendered image walk around

Design Options Explored
Concept Design Presentations

Stand Alone self contained Web and DVD presentation
This link will take you to our web page to see this full presentation

Design Concept Study

Interactive PDF on Concept Design
This link will take you to the web page for this PDF document
**Digital Content to Communicate Design**

We offer some unique service with regard to the creation and review of the digital content produced during all phases of the design process to communicate the design as it matures through the interaction between team members and the client. The delivery of this content through many fluid media outlets allows for a truly collaborative process and can reach a global group of stakeholders for review and comment.

**DVD creation for your project**

We can provide our DVD information packet as example of this great tool that can be created for each phase of a design development.

Email links provide access to the content posted to the project webpage on our site which can be accessed anywhere with an internet connection.

**3D PDF**

3D PDF is a great tool for communicating offering the advantage of BIM content contained in one file that can view by anyone with Acrobat free reader. The link above will take you to example PDF.

**Interactive PDF**

All Digital Content posted on your project website page.

**www.owensarchitects.com**
BIM design...BIM or Building Information Model is the architectural industries label for this revolution in the design process. Owens Architects is committed to BIM design work flow. We have completed many varied types of projects using this now fully tested work flow whereby the direct placement of elements that physically constitute a building are represented and modeled virtually, and then tied into a database for simultaneous extraction into conventional 2D CAD plans, sections, elevations, and details. In this manner, the representation of these building objects is transformed from a static portrayal to one that is highly interactive and self-analytical.

BIM is the present day ‘representation’ of building with the more informative ‘simulation’ of building. This is a methodology that gathers, models, visualizes, analyzes, and simulates the performance entailed in conceiving, constructing and maintaining a ‘virtual’ building—and inextricably links it to the conception, construction, and maintenance of a real building. Put another way, it’s what one might label as balance between the virtual and actual of the building entity and environment.
Construction Complete

Aikido Dojo
LEED Silver Project

Project Statistics:

Dorms: ................517 sq. ft.
Assembly:.......3,405 sq. ft.
Support.......1,696 sq. ft.
Total............7,213 sq. ft.

Owner:
Aviv Goldsmith
6147 Hickory Ridge Road
Spotsylvania, VA

See the project page with links for construction document examples
Current Project

Design Development

Green Strategies

Unitarian Universalist Fellowship of Fredericksburg

See the project page with links for design presentations

A: Assembly
B: Classroom
C: Administration
D: Food Preparation
E: Entry
F: Gathering
G: Sun Rise Porch
H: Play Court
I: Meditation
J: Outdoor meeting
Current Project
Under construction

Business Accelerator Incubator
Grants Secured

LEED Silver Project
See the project page with links for construction document examples

Project Statistics:
Labs: .........................917 sq. ft.
Office: .......................3,808 sq. ft.
Product Development...4,800 sq. ft.
Total Square Foot............9,600 sq. ft.

Owner:
Kentucky Highlands Investment Corporation
Owens architects was established in 2003. We are a small business firm that has developed a full service design team comprised of all small business firms. The total design team has the following designation as a veteran and woman veteran owned firm.

Our design team is comprised of designers that have extensive experience with Corps of Engineer projects. **This link will take your to our designer profile page.**

We have developed an extensive network that allows us to conduct business with project locations and corporations all over the United States.

Jeff Owens as the principal of the firm has been in the construction industry since 1980 in most all capacities before returning to obtain architectural degree in 1993 and licensing in 2002. Mr. Owens holds a NCARB certificate that allows for licensing in most all states in the US and currently holds license in Kentucky and Virginia.

Mr. Owens is a BIM proficient architect that leverages the most recent BIM software as a design tool this allows for quick control of the BIM model as the central source for all design content required to develop and streamline a concept design and the move on to contract documents to construct the project.

Owens strives to maintain and develop new tools to meet challenging design problems with the flexibility to explore options. The communication of those design decision is key to a diverse group of stake holders. The work flow that we have developed will allow the team to leverage the design tools to reach a design solution for the building and the process. The BIM model will be able to include the existing conditions of the site and provide an easy means to interactive 3D problem solving with simulation as required.

Our Duns number is as follows: 827952313 we have a current CCR registration.