

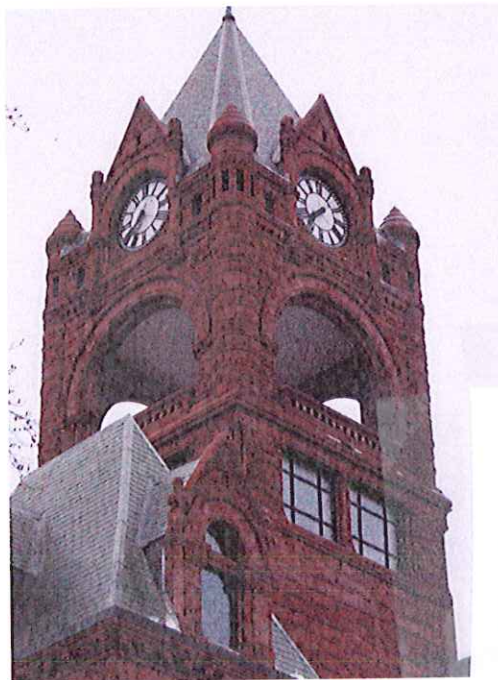
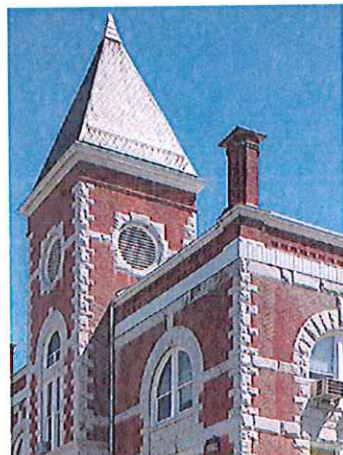
ARCHITECTURAL VISION GROUP, LTD.
ARCHITECTS • PLANNERS



Chambers, Murphy & Burge
restoration architects



DLR Group



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PLANNING DIVISION
STATE OF WV

Expression of Interest

for the

West Virginia Courthouse Improvement Authority

Facility Needs Assessment for 55 County Courthouses



ARCHITECTURAL VISION GROUP LTD.

ARCHITECTS

PLANNERS

6250 GRAND CENTRAL AVE.
VIENNA, WV 26105
PHONE: (304) 865-1435
FAX: (304) 865-1436
email: architects@avgl.com
www.avgl.com

November 15, 2011

Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

RE: Expression of Interest
Statewide Courthouse Facility Needs Assessment: CFA100611

To Whom It May Concern:

We are very pleased to submit our credentials and the experience of our project team for your consideration. We have carefully culled the best staff from our firm and that of our consultants to address your program. The team includes:

Architectural Vision Group – Lead Firm & Building Assessment Architects
Chambers Murphy & Burge – Restoration Architects
DLR Group – Courts Programming/Planners
Thorson Baker – MEP Engineers
Barber Hoffman – Structural Engineers
Blundall Associates – Cost Estimating

Architectural Vision Group (AVG) is the lead for architectural services and building assessment. With a West Virginia office, the firm has provided similar assessment services on over \$1.7 billion worth of buildings projects in recent years in Ohio and West Virginia. Chambers Murphy Burge, Associated Architects, will be providing restoration expertise to the team. They have previous restoration experience in West Virginia and have been involved in restoration efforts on over 20 county courthouses and eight state capitol buildings. They are nationally recognized for their expertise and hands on approach to restoration. They are one of a limited number of firms in the country licensed in the use of the TPAS documentation system for historic building assessment. Courts planning and programming services will be provided by DLR Group. They provide similar services nationally for both federal and county courthouse facilities.

Our engineering services will be provided by Thorson Baker for mechanical and electrical engineering and Barber Hoffman for structural services. Both firms have worked on a number of projects on structures that are on the National Register of Historic Places. Blundall Associates is our cost estimating firm. They are well versed in conceptual estimating of building renovation, additions and restoration practices.

West Virginia's county courthouses are a wonderful and varied display of historic architecture paralleling the evolution of developed of the State. We feel it would be an honor to work with you on this challenging, crucial facility assessment analysis to identify needs, both spatial and technical, to provide a game plan for the restoration, renovation and expansion of these structures. We would welcome an opportunity to be interviewed by you for this exciting commission.

Sincerely,
ARCHITECTURAL VISION GROUP, LTD

Syed Abbas, AIA
President

RFQ No. CFA100611STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATUREVendor's Name: ARCHITECTURAL VISION GROUP, LTD.Authorized Signature: *[Signature]* Date: 11/11/11State of OhioCounty of Cuyahoga, to-wit:Taken, subscribed, and sworn to before me this 11th day of November, 2011.My Commission expires MAY 26, 2013

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]
Charles Veski Jr

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Section 1	4.2.1 Project Understanding And Approach
Section 2	4.2.2 Firm/Team Qualifications
Section 3	4.2.3 Project Organization
Section 4	4.2.4 Demonstrated Experience & References
Section 5	Architectural Vision Group - Assessment Architects
Section 6	Chambers Murphy & Burge - Restoration Architects
Section 7	DLR Group - Court Planners
Section 8	Thorson Baker - MEP Engineering
Section 9	Barber Hoffman - Structural Engineering
Section 10	Blundall Associates - Cost Estimating

4.2.1 Concept

Provide a discussion of the facility needs assessment project, anticipated concepts and your firm's proposed methods of addressing the concerns and concepts as previously explained in the Background, General Requirements, and Project Description.

Project Understanding

It is our understanding that the West Virginia Courthouse Facilities Improvement Authority wants a facility needs assessment for all 55 county courthouses throughout the state of West Virginia. This assessment is to determine the renovations, restoration effort and additions necessary to comply with codes along with growth demands by the county for the citizens it serves.

The assessment effort is to identify and prioritize immediate and long term courthouse facility needs and establish the associated cost with the upgrades. It will require a Comprehensive Facility Assessment that addresses the ten priority categories: Life Safety, Structural Improvements, Roofing, Electrical/Data, Exterior Improvements, Interior Improvements, Mechanical (HVAC/Plumbing), Doors and Windows, Accessibility, and New Construction/Space.

Project Approach

Meeting prior to starting any individual courthouse assessment will be essential to establishing the goals for the project and the process to assist the professionals and assist in developing consensus with the local Owner Teams. The Project Director, the several consultants/team members (representing architectural, structural, electrical, mechanical, historical architects, and project cost disciplines) will meet with the Owner's representatives and project manager to discuss the most efficient and effective approach to the assessment reporting. The assessment time is short and it is essential to avoid overlap and duplication of efforts. A sites review and subsequent dialogue will prepare for their specific scopes of work.

The architectural/restoration/courts planning assessment scope of work to be undertaken by Architectural Vision Group, Chambers, Murphy & Burge and DLR Group encompasses the evaluation of the interior and exterior conditions and materials, structural, mechanical (plumbing, heating, ventilating, air conditioning, and fire protection) as well as use and programming of the interior spaces. Landscape issues may be addressed peripherally but not necessarily addressed in detail. The scope of the assessment must be expressly described and limited to the buildings included in the agreement in order to facilitate the speed of the work and to maintain focus and schedule.

We suggests that an effective method calls for the consultants to consider the work to be completed in one of three phases or tiers. The tier characterizations will have preliminary definitions, but may also evolve throughout the course of the work. To be consistent, the defined concepts must remain strong. In essence, Tier 1 may represent work necessary to maintain each site as a functioning facility in a safe and healthful manner, primarily considering life safety and security for employees and visitors. Tier 2 represented the work necessary to initially improve the function and operability of the spaces within the structures. Tier 3 may represented the future work, in an ideal situation, the work to restore the historic structures to healthy buildings representing the history of the County and the State of West Virginia. Clearly, if all items cannot be addressed within these three tiers, then a long term "wish list" may be added as a fourth tier.

Pursuant to detailed discussions with the Team the Tier 1, 2, 3, and perhaps 4

definitions must be delineated. Since these definitions influence the results of the Assessment Work, we suggest the organization of the Cost Opinions parallel the Tiers. Depending on the level of detail for each of the Tiers, it could be decided to limit the attached costs to the more easily defined Tier 1 and 2. Tier 3, the description of which could vary widely dependent upon historical research and interpretation, will be represented in the study as concepts with associated costs. For long range planning however, Tier 3 and ultimately items in Tier 4 must have cost opinions attached to them in order for the study to be of continued use.

Process

On-site, physical assessment of the Courthouses is the priorities for the Architectural/Historical/Courts Planning Team. Together and independently, the architects, engineers, and cost consultant will review each site for issues affecting the structures and the buildings to understand conditions and to discuss remedies.

A list of existing documents must be provided by each County. Even if some of the existing documents are readily available and others are not, with a list, the Team is able to prepare for each site visit and perhaps note when work proceeded in the past, or to have a brief description of the scope of the previous work.

The restoration architects will study the buildings using the TPAS® (Tablet PC Annotation System), documentary photography, visual observation and annotation, and research and calculations. Understanding the structures enables the architects to address the historic uses as well as the condition of the materials. Historic uses (even those of recent history) often effect the conditions as well. Symptoms of wear or specific problems are passed to the engineers to enhance their studies of the building systems.

Each of these aspects, independently, is the discussion of an entire report. The compilation, however, begins to define the restoration work. Sharing this definition with the Construction Cost Consultant allows for the Team to paint a bigger picture designed to enhance, protect, and support the historic Court House stories.

As a public agency the WV Courthouse Facilities Improvement Authority (Agency) must provide the maximum value to the taxpayer without compromising the operational and functional needs of the Court Agencies, Support Departments and Public Users of these structures. In addition to a complete understanding of modern courthouse design, our team offers the Agency a strong consensus building process.

It has been our experience that more and more projects are being accompanied with comprehensive master planning/programming studies as part of the project scope. The importance of a well-executed master plan study cannot be underestimated. Understanding the future growth needs of county departments and agencies can provide the necessary guidance to acquire land or maintain existing sites that can accommodate building expansion or develop locations

that have enough area for growth. Knowing and understanding growth trends can preempt overcrowding and allow for funding mechanisms to be set in place ahead of time.

Programming is a vital component to a complete master plan. Typically this process is very "hands on" as it takes a series of user group meetings to fully understand how each department operates and their space needs. With the large number of buildings to be programmed/planned for this commission, surveys will be distributed prior to the initial meetings to reduce the iterations required in development the program. This phase is centered on fact-finding and information gathering. Departmental goals can then be set and used for the development of "space utilization" standards that will help guide space planning and design. A draft program will be produced based on the space needs and space standards. Review and refinement of the draft program allows the user to make adjustments prior to issuing a final program.

Courthouse planning and design is a direct response to the highly complex operations of the court. Key planning principles are considered during the program refinement process and contribute to decisions that are made about internal adjacencies, the size and number of spaces and locations within the building:

- Operational Efficiency
- Security
- Ease and Clarity of Access and Circulation
- Flexibility Over Time
- Service

The following outlines the typical work plan tasks for the programming and master planning effort:

- Analyze Existing Situation and Define Future Needs
- Profile Components of the Court System and Related Agencies
- Review Existing Operations
- Develop Forecasts
- Establish Space Standards and Security Guidelines
- Define Future Space Requirements
- Final Development of the Program and Master Plan
- Identify Options and Alternatives
- Prepare "Cost Model" Estimates

Preparation of Implementation Plan

The conclusion of this effort will be the development of a comprehensive analysis of space needs incorporating all elements of the Court system, including requirements for each department. Space and location requirements for each agency will be presented in a graphical and analytical format. Preliminary construction cost estimates for renovating existing facilities will have been developed and general guidelines for the construction of new space and renovation of existing space within facilities will be included as part of the comparison of options to meet the future space needs. Site work, grading and infrastructure improvements together with any ancillary improvements will be incorporated into the estimates provided.

Practical recommendations will be made regarding the priorities for initiating space improvement programs in sufficient detail to enable the State to act on internal space assignments and re-locations. These recommendations will be coordinated and presented along with locations and alternatives to assist in meeting near-term needs in a manner consistent with the long-term growth objectives and facility plans resulting from the study.

The final study report delivered will be designed to become the State's working document for future facility design, space planning and budget programming.

The following is a suggested list of data to be compiled:

- Reference Drawings
- Building Code Analysis Basis
- TPAS® documents (annotations of defects including drawings/photo-documents)
- TPAS® Work Quantity Spread Sheets (download into spread sheets, quantities for cost analysis)
- Interior Survey—spaces, materials, and conditions
- Conditions Photographs illustrative of historical character but also of defects.
- Court Programming and Planning documentation and recommendations
- Engineering Reports -- Structural, Mechanical, Electrical Engineering
- Construction Cost Opinion

4.2.2 Firm / Team Qualifications

- a.** *Provide the name, address, phone number, email address and signature of the firm's contact person responsible for the project and having full authority to execute a binding contract on behalf of the firm submitting the proposal.*

The person responsible for the project with full authority to execute a binding contract on behalf of the firm is:

Syed Abbas, AIA, NCARB
6250 Grand Central Ave.
Vienna, WV 26105
304-865-1435
syedabbas@avgl.com



- b.** *Provide the names, function and resume of individuals within the lead firm's organization who will be assigned to this project.*

Key staff from Architectural Vision Group who will be assigned to this project include the following persons. Their resumes and the resumes are included with the AVG firm information in Section 5 along with additional information on the firm's experience. Additional staff support will be provided as required.

Syed Abbas, Project Executive
Andre Smiltars, Director of Design
Richard Bauschard, Project Director
Cheryl Fisher, Senior Assessment Planner

Resumes of all the other key staff for this assignment are located in individual firm's section of the submittal.

- c.** *The design team must have expertise in the area of architecture-engineering-historical design services. The design team must include individuals with expertise in the ten (10) areas of priority as defined by the Agency's Board of Directors and outlined previously in the Project Description. Members of the proposed firm's team must include a registered architect with the State of West Virginia, a structural engineer, an electrical engineer, an interior designer, an historian, and a person knowledgeable about the business / services offerings of a courthouse. Members of the team must have prior experience working on courthouses, courthouse annexes, and other justice facilities.*

Architectural Vision Group (AVG) is the lead for architectural services and building assessment. With a West Virginia office, the firm has provided similar assessment services on over \$1.7 billion worth of buildings projects in recent years in Ohio and West Virginia. This work addresses 23 categories that include all of your Ten Categories. Syed Abbas and Andre Smiltars, principals of the firm, are registered architects in the State of West Virginia. See Section 5 for more information on the firm.

Chambers Murphy Burge, Associated Architects, will be providing restoration expertise to the team. They have previous restoration experience in West Virginia and consequently coordinated with the West Virginia State Historic Preservation Office. These projects included work at Harper's Ferry on several assignments with the National Park Service. Staff worked on the American Engineering

Team Qualifications

Record documenting 12 of the bridges over the Potomac between Maryland and West Virginia. They have been involved in restoration efforts on over 20 county courthouses and eight state capitol buildings. They are nationally recognized for their expertise and hands on approach to restoration. They are one of a limited number of firms in the country licensed in the use of the TPAS® documentation system for historic building assessment. Interior design services are also provided by the firm. (See Section 6 for firm information)

Courts planning and programming for the business / service offerings of a courthouse will be provided by DLR Group. They conduct a national practice specializing in the programming and planning of courthouses, both federal and county level, courthouse annexes and other justice related facilities. (See Section 7 for firm information)

Mechanical and electrical engineering services will be provided by Thorson Baker (Section 8 for firm information) and Barber Hoffman (Section 9) for structural services. Both firms have worked on multiple projects for structures that are on the National Register of Historic Places, and both firms have worked on courthouse facilities. Blundall Associates (Section 10) is our cost estimating firm. They are well versed in conceptual estimating of building additions, renovations and restoration practices.

Our approach focuses on several critical elements imperative to the developing a sound maintenance and improvement plan. We plan to take full advantage of available technology to successfully complete this project assignment. AVG has always been committed to being on the leading edge in the use of technology to deliver services to our clients. This is our philosophical comment to the State of WV project. To the greatest extent possible, we will use computers, databases, networking, and electronic data document control. We plan to use these tools for gathering, cataloging, input analysis, evaluation, communication, reporting, estimating, budgeting, photographing and presentation of data and information needed to complete this project.

Provide a statement of the firm's ability to handle the project in its entirety.

- e. Our team staffing, based on our approach to the project and suggested schedule located in Section 3 of this submission, is sufficient to meet the overall requirements of your entire project. Should schedule acceleration be required additional staff are available and shall be assigned to the project.

Provide a statement of the firm's acceptance and full understanding that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.

We understand that the work produced as part of this contract will become the property of the Agency and can be used or shared by the Agency as deemed appropriate. If such work is subsequently provided to another architectural firm

Team Qualifications

- f. for execution of the final design and construction, the supplanting architect shall provide Architectural Vision Group a release from liability for the use of documents prepared by our team.

Provide evidence that the firm is current in their licensing and education requirements in conformance with all local, State, and Federal regulations applicable to courthouse facilities. These requirements shall include building and life safety code requirements and NFPA regulations.

Syed Abbas, AIA, NCARB and Andre Smiltars, AIA, NCARB are registered Architects in West Virginia. Their licenses are current which confirms meeting the educational requirements of licensure. As licensed architects, all projects developed by these individuals must meet all applicable building and life safety codes, including NFPA regulations.

Syed Abbas, AIA, NCARB – West Virginia Registration Architect #3619

Andre Smiltars, AIA, NCARB – West Virginia Registration Architect #3525

- g. Architects and engineers on our team are currently licensed to practice professionally in the State of West Virginia. -MORE

Provide a description of any litigation or arbitration proceedings, including vendor complaints filed with the State's Purchasing Division, relating to the firm's delivery of similar facility needs assessments, if applicable.

Architectural Vision Group and our consultants have no litigation, arbitration proceedings or vendor complaints filed with the State's Purchasing Division.

4.2.3 Project Organization

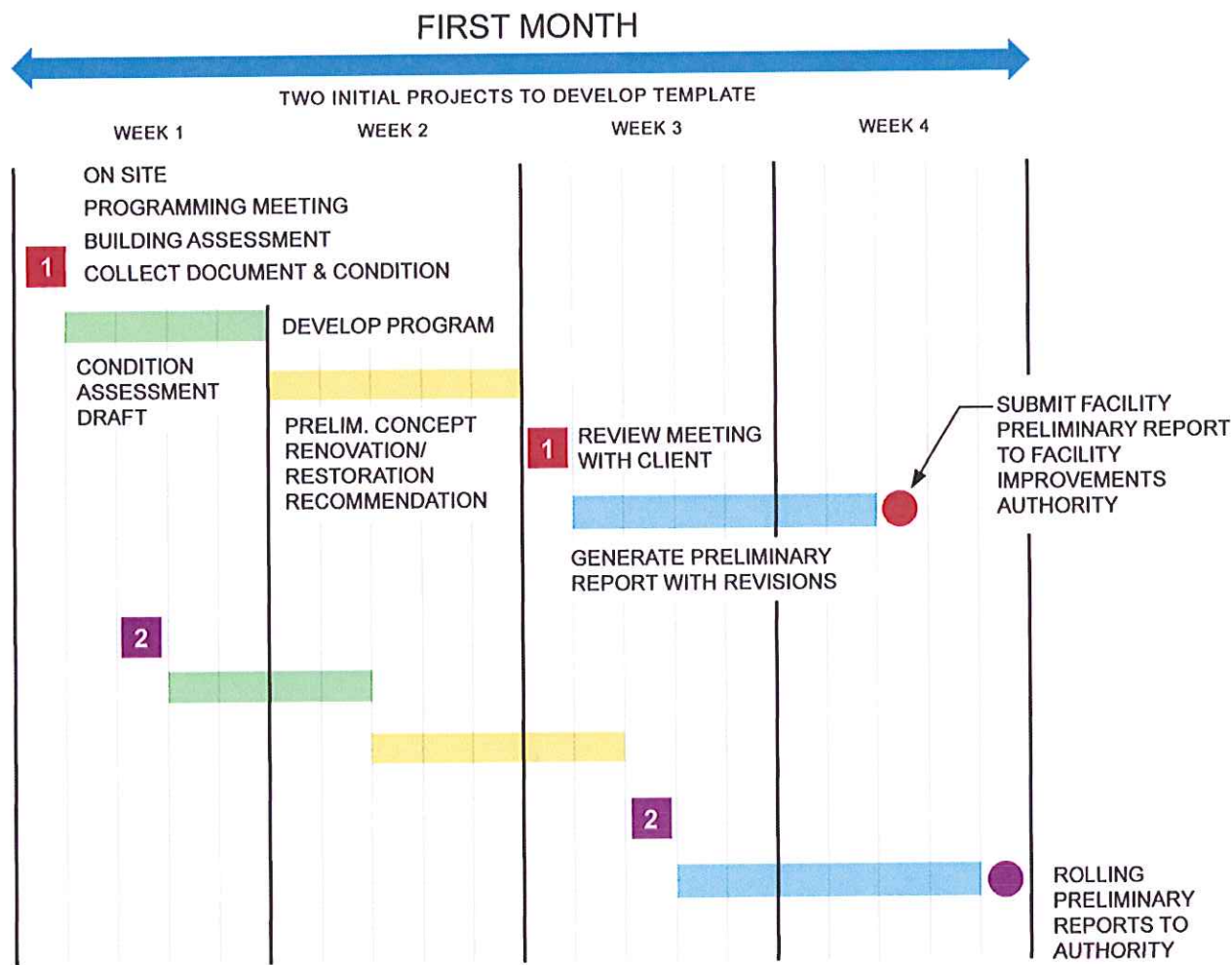
- a.** *Provide information on the personnel who will manage and persons proposed to be assigned to the project. Provide locations of the firm's offices. Provide a project organization chart including key personnel and the proposed organization of the project team and describe any experience with previous facility assessment projects.*

The firm's home office is in Westlake, Ohio and is supported by our local West Virginia office in Vienna, West Virginia. A project organization chart is included on the next page. It indicates who the key personnel, the role of each firm and how the team is structured. Each firm's experience with previous facility assessment projects can their individual section.

Project Organization

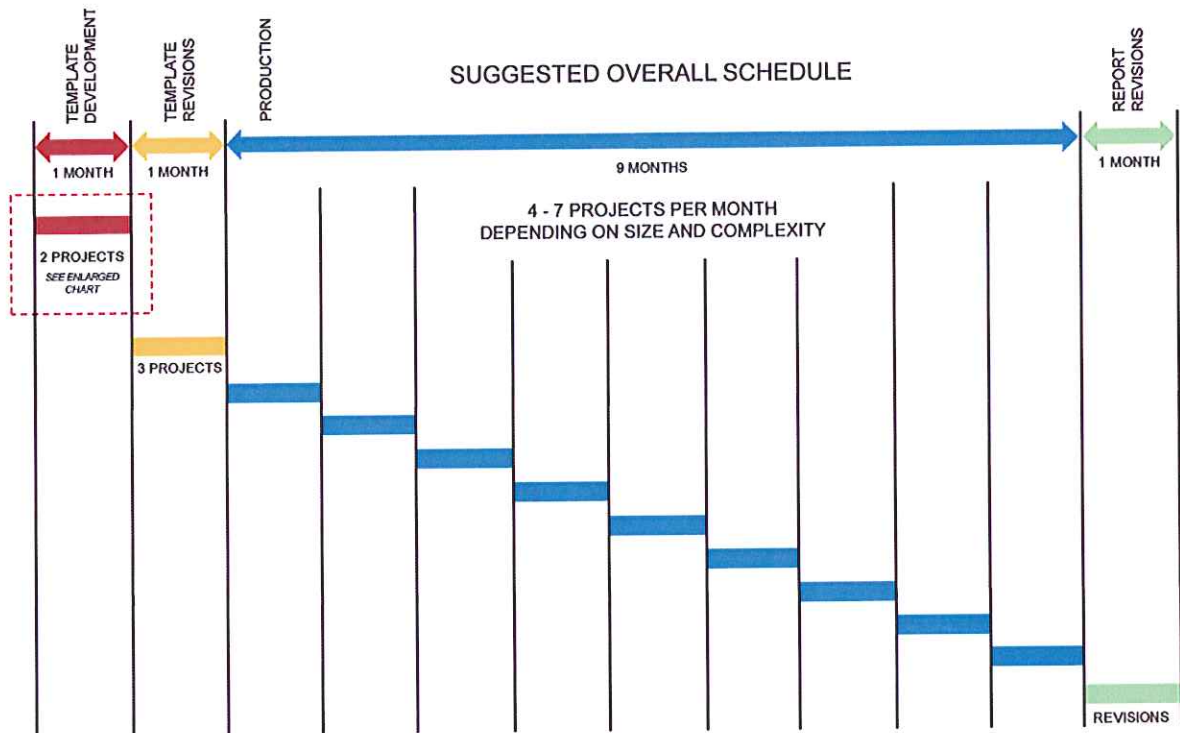
b. Provide a statement or evidence of the firm or team's ability to provide services within the project time frame and a proposed project schedule outlining the key phases.

The attached project schedule has been developed based on our project approach located in Section 1 of this submission. In the first month the services for two courthouses will be provided while developing a template for project process and documentation. At the end of that month preliminary reports will be provided to the Agency for review.



Project Organization

In the second month assessment services will be provided for three more courthouse projects including any required revisions to the template and reporting requirements. For the next nine months we will conduct facility assessments on four to seven projects per month depending on the size and complexity of the courthouse. This will complete assessment of the 55 courthouses by the end of the eleventh month of the project. The last month provides contingency time for required adjustments and/or revisions to individual reports. It is our intention to submit individual facility assessment preliminary reports on a rolling basis as they are drafted for your review rather than submit all the reports at one time. This will spread your effort in reviewing the work along with providing us with timely input from you on any adjustments required in the methodology.



4.2.4 Demonstrated Experience in Completing Projects of a Similar Size and Scope:

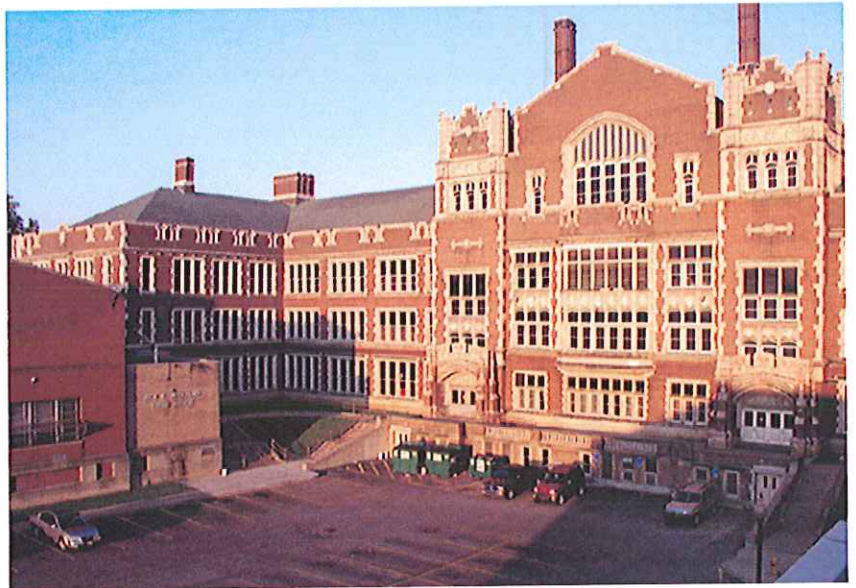
- a. *Provide a brief description of relevant projects demonstrating the firm's ability to execute projects similar to those described in the Expression of Interest. Provide descriptions of not more than ten projects performed in the last ten years. Projects of interest should include work performed within the State of West Virginia.*

Following this page are ten project sheets demonstrating the team's experience in similar work. The projects include multiple building assessment commissions, restoration assessment on structures on the National Register of Historic Places and court facility programming and planning.

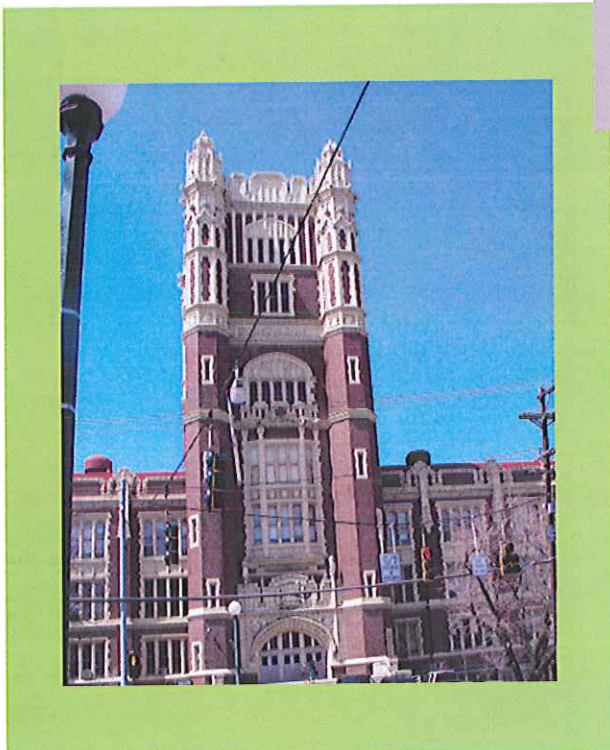
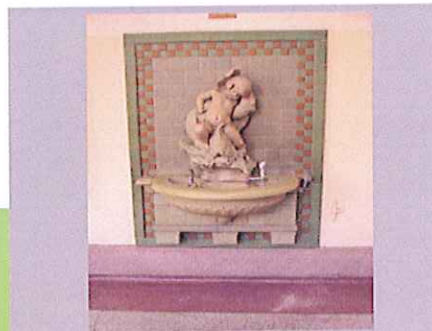
OHIO SCHOOL FACILITIES COMMISSION - ASSESSMENT & MASTER PLANNING SERVICES

Architectural Vision Group has been providing ongoing Assessment and Master Plan Services for the Ohio School Facilities Commission (OSFC) since the commission's inception. The OSFC administers the state's comprehensive Kindergarten through 12th Grade public school construction program. The agency helps school districts fund, plan, design, and build or renovate schools.

The OSFC retains the services of only twelve architectural consulting firms to provide these services for the entire State of Ohio's 612 school districts. Architectural Vision Group is the only firm which has been providing such services to the Commission since 1998! Ultimately, this has led to AVG conducting over \$1.7 billion dollars in facility renovation studies for more than 300 buildings in over 60 school districts in Ohio.



Additionally, we are the only firm who has developed 42 master plans under the Expedited Local Partnership Program (an OSFC funding program). We have also developed 36 additional master plans for OSFC under CFAP Assessment & Master Planning.



ASSESSMENT PROJECTS FOR THE OHIO SCHOOL FACILITIES COMMISSION

Classroom Facilities Assessment Program (CFAP) & Exceptional Needs: Since 1998, AVG Ltd. has completed on-site classroom facilities assessments and master planning for the Ohio School Facilities Commission in 58 (including Cincinnati City – see below) school districts. Architectural Vision Group performed individual facility studies for the career technical areas of Shaw High School (East Cleveland City SD) and Alliance High School (Alliance City School District) for the OSFC under these programs. The laboratory & supporting spaces were evaluated based upon the guidelines set by the Commission for Career Technical Schools.

Maysville Local Schools

Adena Local Schools

Fairfield Local Schools

Amanda Clearcreek Schools

Scioto-Valley Local Schools

Union-Scioto Local Schools

Alliance City Schools

Lowellville Local Schools

Cambridge City Schools

Ansonia Local Schools

Westfall Local Schools

Niles City Schools

Central Local Schools

Kalida Local Schools

Hughes Center High Schools

Belpre City Schools

Orrville High School

Amherst Exempted Village SD

Warren Local Schools

Johnstown Monroe Local Schools

Newton Falls Exempted Village SD

Southern Local Schools

Northern Local Schools

Mohawk Local Schools

Patrick Henry Local Schools

Pandora-Gilboa Local Schools

North Fork Local Schools

Ada Local School District

Struthers High School

Canton City Schools

Mad-River Green Local Schools

Marion City Schools

Versailles Exempted Village SD

Crestwood Local Schools

Scott High School

Streetsboro City Schools

Perry Local Schools

Vermilion Local Schools

Ledgemont Local Schools

Girard City School District

Massillon City Schools

Tiffin City School District

Elyria City Schools

Conneaut City Schools (reassessed)

Cincinnati Public School

Shaw High School (E. Cleveland SD)

Rozelle ES (E. Cleveland SD)

Northwood Local Schools

Elida Local Schools

Federal Hocking Local Schools

Girard City Schools

Bucyrus City School District

New Knoxville Local Schools

Warrensville Heights City Schools

Shadyside Local Schools

Licking Heights Local Schools

North Olmsted City Schools

Fort Frye Local Schools

Total Facilities Assessment Cost if Implemented = \$1.7 Billion

MASON COUNTY SCHOOLS - Assessment and 10 YEAR MASTER PLAN

In 2009 to prepare the 2010-2020 Comprehensive Educational Facilities Plan for the Mason County Schools. This is a state requirement by the WV Department of Education and School Building Authority of West Virginia for all 55 County School Systems and is conducted on a 10 cycle basis. There are only a handful of architecture firms "certified" by the SBA to conduct the study/work due to the complexity and extensive knowledge in educational planning that is required.

AVG conducted in-depth facilities assessments of all eleven educational facilities and their sites within Mason County. Criteria of evaluations included SBA guidelines and standards, local codes, state codes, and ADA. The firm was also responsible for creating "inventory lists" of the materials that composed the building. This including documenting, cataloging, and reporting quantities and types of floor finishes, ceiling materials, paint, paving, roofing, mechanical and electric equipment (ie: boilers, chillers), etc.

AVG also studied the existing spaces of



the facilities. We evaluated the sizes of the classrooms and large group spaces such as gymnasium, cafeteria, library, etc. based upon the programs they served in comparison to state recommendations. We also studied building capacities, program capacities, enrollment projections, historic enrollments, etc. as well. This data, coupled with the physical assessment condition report was presented to the committee.

The next task was to "prioritize" and rank the renovation, rebuild, or abandonment of the facilities. We classified each component based upon a three-tiered ranking system. Priority 1 for immediate need, Priority 2 for 5-10 year need, and Priority 3 – non-essential need. This process allowed for the draft formation of the 10-year plan that outlined maintenance plans, new construction plans, and renovation plans with a project schedule and costs associated to each. AVG also developed a long range continued maintenance plan, which aids in the sustainability of current systems, extending the life cycles of the given material and / or building components.

"Syed Abbas and his entire staff at AVG have shown that they have made a true commitment to Mason County Schools, our student and staff and community, and to our projects. They have committed to be our "partners". And, it's very clear that this is not just something that AVG has done for Mason County Schools This is standard operating procedure for Syed and each of his employees culture and philosophy..."

Dr. Larry E. Parsons

Former Superintendent Mason County Schools



PROJECT SCOPE

- Renovations to Ashton ES
- Rebuild new Leon ES
- Renovate & Add to Pt. Pleasant Primary
- Construct new Pre-K Facility
- Renovate and Add to Roosevelt ES
- New gym addition at Beale ES
- Roof replacement at New Haven, Pt. Pleasant Intermediate, Hannan, & Wahama Schools

PROJECT SPECIFICS

- Projects phased over 10 year period
Prioritized by level of need/urgency
- Projects costs split between State funds from MIP & Needs project submissions and Local funds

PROJECT COMPLETION

2010 - Master Plan

OVERALL MASTER PLAN COST

\$23,615,000.00

1894 HISTORIC "WASHINGTON BUILDING"

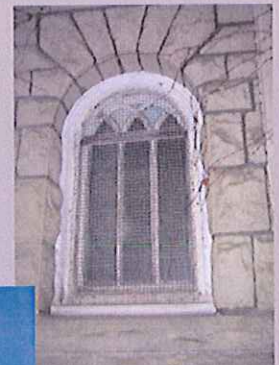
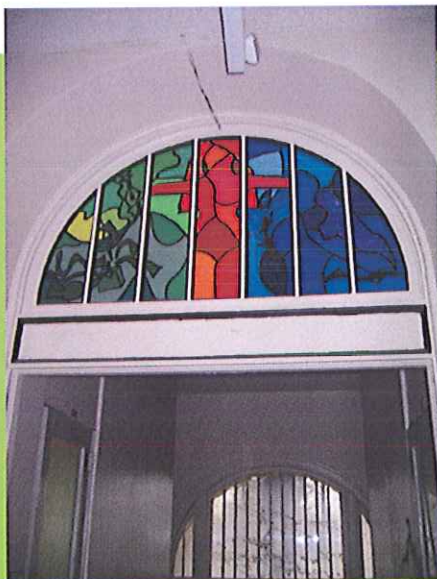
Architectural Vision Group was retained in the late fall of 2000 to provide a district-wide assessment and master plan of the school district's twenty school buildings. Shortly thereafter, the school district began participation in the OSFC's "Expedited Local Partnership Program" in order to provide funding for the desperately needed new high school project. AVG was requested by the Commission to rework our existing report into their computer data base and work with the Commission in developing a comprehensive master plan that was focused on the new high school as the priority project.

Over the next few years, the old Elyria High School continued to deteriorate at an accelerated rate, to such a degree that areas of the building were blocked or fenced off due to structural instability and falling block & brick.

AVG, the OSFC, and the school district conducted numerous meetings to develop a detailed plan for the New Elyria High School. Not only did this project have to meet OSFC guidelines, but several challenges had to be overcome before a final plan was agreed upon. The original portion of the high school built in 1894 is on the National



Register of Historic Places and a detailed scope of work for renovation had to be developed, while not exceeding the cost to rebuild. This was achieved and the project is under construction.



Ohio Courts Building

MATERIALS RESEARCH, MASTERPLAN
SPECIFICATIONS AND RESTORATION

COLUMBUS, OH

ORIGINAL DATE: 1936

NATIONAL REGISTER OF HISTORIC PLACES

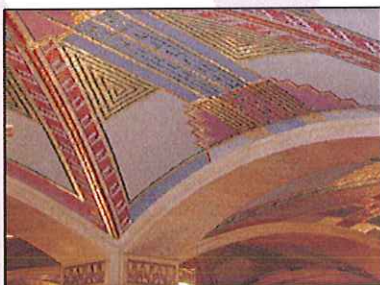


Chambers, Murphy & Burge Restoration Architects was retained to evaluate the conditions of the decorative metals and mosaics in the building. Recommendations included remedial repair of damage caused by improper cleaning methods. From the Bas-Relief sculpture to the more than 200 bronze doors, all of the decorative work was carefully evaluated and a plan developed for their restoration and maintenance. Careful coordination with accessibility systems and security controls is a part of the restoration of the bronze doors.

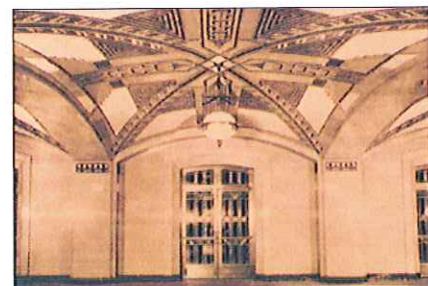
The variety of mosaic surfaces in the building includes floors, vaulted ceilings and wall panels. Each type and location was given separate consideration, and treatment.

With the Masterplan in place, Chambers, Murphy & Burge compiled contract documents for the restoration of the decorative metals and mosaics.

**AWARDED A 2005 PALLADIO AWARD
2004 AIA OHIO AWARD FOR COLLABORATIVE WORK.**




Chambers, Murphy & Burge
restoration architects



and you get your history for free.....

Originally constructed as the Ohio Departments Building, this thirteen story building represents the best in Art Deco Architecture and Decorative Arts. Harry Hake, a prominent Cincinnati architect, was hired to design the building. His 292 pages of specifications called for 415,000 square feet; considered sufficient space.

In 1998, the General Assembly agreed to fund renovations to the building and transform it into the Ohio Judicial Center. The building was renovated for the Ohio Supreme Court by Schooley Caldwell Associates. The building houses the courts, judiciary offices and the Law Library.

Belmont County Courthouse

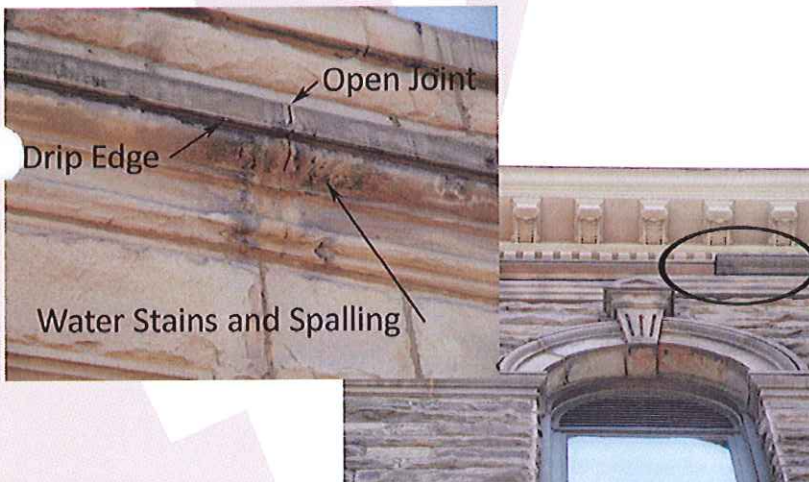
CONDITIONS ASSESSMENT
ORIGINAL CONSTRUCTION: 1885
NATIONAL REGISTER DISTRICT
ST. CLAIRSVILLE, OHIO



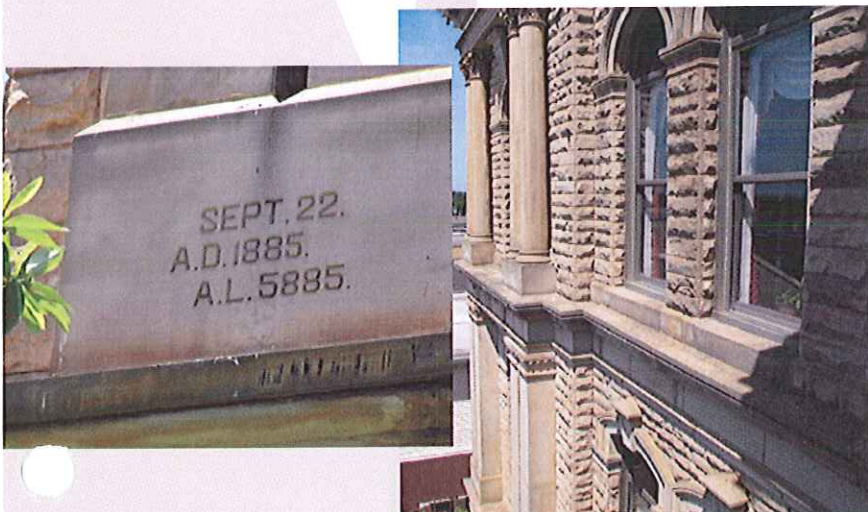
This three story sandstone Courthouse with symmetrical facades is surmounted by a central tower and dome. Chambers, Murphy & Burge and Barber-Hoffman Engineers performed field work for the purpose of assessing the conditions of the County Courthouse and reporting to the Commissioners for consideration.

Especially important was the review of specific areas of stone loss and the conditions associated with fragments of stone falling from the building. Commonly referred to as spalling, the stone loss was to be documented the goal of preventing further damage to the building and preventing injury from falling stone.

Observations in regard to the causes of stone failure led to recommendations for maintenance that would prevent further loss or more catastrophic problems. Most areas required only cyclical maintenance, though recommendations for intervention were outlined as well.




Chambers, Murphy & Burge
restoration architects

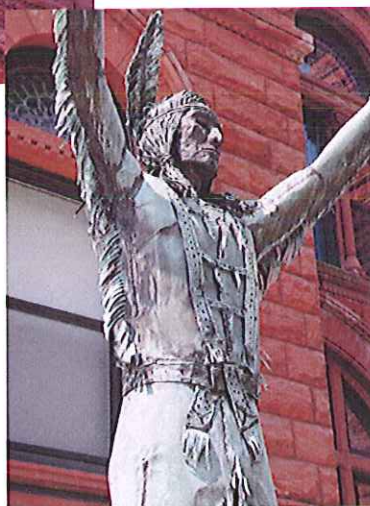
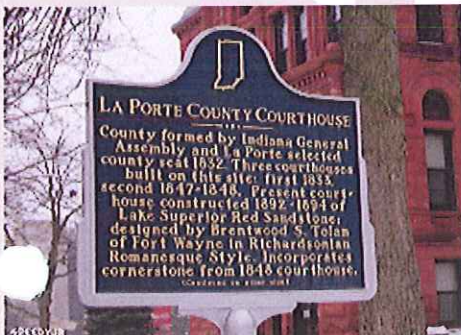
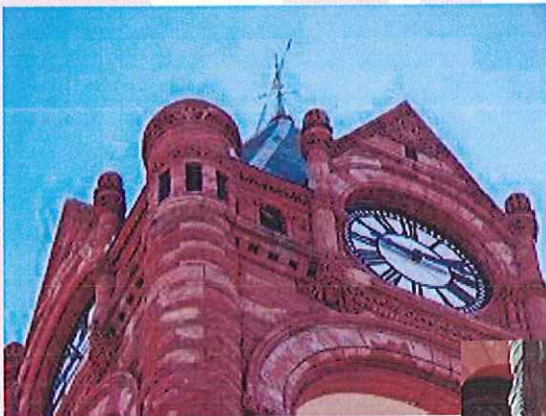
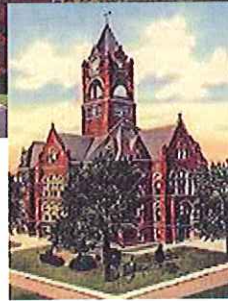


And you get your history for free.....

The St. Clairsville Historic District rises to the center of town where the Belmont County Courthouse dominates the streetscape. This Beaux Arts style structure was designed by Joseph Warren Yost from Yost and Packard of Columbus who also designed the adjacent County Sheriff Residence and jail. On the National Road, the Courthouse was an anchor for commercial development and is the first significant commercial area west of Wheeling and into the State of Ohio. The National Road stretches from Cumberland Maryland across the Ohio River and leading to the country's westward expansion.

LaPorte County Courthouse

ASSESSMENT, PEER REVIEW
ORIGINAL CONSTRUCTION : 1892-1894
NATIONAL REGISTER DISTRICT
LA PORTE, INDIANA



LaPorte County Courthouse

This three story Lake Superior red sandstone Courthouse was built in the Richardsonian Romanesque style and is surmounted by a central clock tower. Chambers, Murphy & Burge provided assessment and peer review of the project architect's detailed and specialized work to protect his structure.

Engaged by the attorneys monitoring the project, it was especially important to note the specific areas of stone loss and the conditions associated with previously completed harsh treatments of the temperamental stone.



Chambers, Murphy & Burge
restoration architects

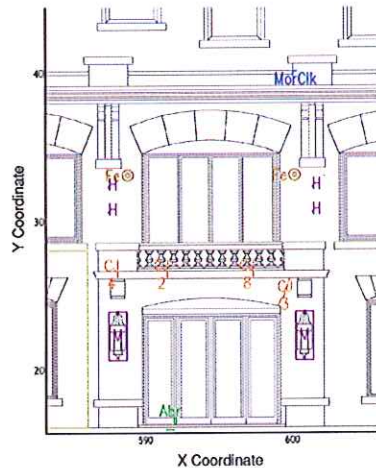
And you get your history for free.....

The present courthouse is of Portage Entry (Lake Superior) red sandstone. The architect was Brentwood Tolan of Ft. Wayne and Charles A. Moses of Chicago was the contractor.

*Total cost for the building was \$328,000. The stone was shipped via boat to Michigan City and transferred to La Porte by rail. There are a least 45 gargoyle-type faces located in the corners of the windows and throughout the façade. With three floors and a basement, the third floor houses the courtrooms. Stained glass windows are also part of the structure, the largest of which, in the circuit courtroom, is of *Iustitia*, Goddess of Justice. Officials moved into their new quarters in March 1894, exactly twenty-five months from the day of ground breaking.*

The Henry Ford Estate

Conditions Assessment, Restoration
Cyclical Maintenance Planning
Dearborn, Michigan
Original Date 1915
National Historic Landmark



NAME	CODE	CONDITION	AMOUNT	SEVERITY	POSITION X	POSITION Y
Stone Crack	CJ	System Joints	0.5	4	587'-8 1/4"	25'-5 9/16"
Stone Unsecured	H	Hole in Mortar	0.003		587'-9 7/16"	30'-5 1/2"
Stone Unsecured	H	Hole in Mortar	0.003		587'-9 7/16"	32'-11 5/8"
ArchMetal Unsecured	M	Missing	3.963		588'-1 3/16"	21'-11 3/4"
Stone Ferrous Element	Fe	Ferrous Element			588'-2 11/16"	32'-8 7/8"
Stone Crack	CJ	System Joints	0.5	2	591'-1 7/16"	25'-5 9/16"
Wood Deteriorated	Abr	Abraded	0.069		591'-8 3/16"	15'-8 1/16"
Stone Crack	CJ	System Joints	0.5	8	598'-11 1/16"	25'-5 9/16"
Stone Crack	CJ	System Joints	2.106	3	599'-5 13/16"	24'-0 1/8"
Stone Ferrous Element	Fe	Ferrous Element			599'-7 1/16"	32'-8 7/8"
Stone Joints	MorCik	Mortar Caulked			600'-3 1/2"	39'-2 1/2"
ArchMetal Unsecured	M	Missing	3.963		600'-9 15/16"	21'-11 3/4"
Stone Unsecured	H	Hole in Mortar	0.003		601'-8 7/16"	30'-5 1/2"
Stone Unsecured	H	Hole in Mortar	0.003		601'-8 7/16"	32'-1 5/8"

Photo #: 588_33_1
X Coordinate Y Coordinate Photo # at that position



Chambers, Murphy and Burge's involvement with preserving this home began more than a decade ago with the restoration of the Field room. In addition, a Cyclical Maintenance plan has been developed for the Manor House and five other principal structures on the site.

Chambers, Murphy & Burge Restoration Architects assisted the University with stabilization of the original Pony Barn and is currently assisting the new owner, Ford Estate Foundation, on a due diligence/conditions assessment report, utilizing TPAS® technology, to begin restoration.

Firm principal, Elizabeth Corbin Murphy, has led two student teams, in the preparation of Historic American Building Survey (HABS) documentation of the Manor House and Power House. Both teams were awarded honors in the Charles Peterson Prize Competition.



Chambers, Murphy & Burge
restoration architects

And you get your history for free.....

Located about two miles from where Mr. Ford was born, the private residence of automaker Henry Ford and his wife, Clara is as unique as its occupants. During their residency, the 1300-acre estate included a working farm, a man-made lake, extensive rose and peony gardens, a greenhouse, agricultural research facilities and a six-level power house. The home is constructed of rough-hewn Ohio Marblehead limestone in the Tudor Revival/Scottish Baronial style combined with the modified progressive Prairie style.

In 1957, the mansion, the powerhouse and 210 acres of the estate were donated by the Ford Motor Company to the University of Michigan for the creation of the Dearborn campus. The Estate serves as a house museum and conference center for the University and has been open to the public since 1970.



Gilchrist County Courthouse Addition and Renovation | Trenton, Florida

Design Achievement

Adding Space, Preserving History *Sensitive Solutions*

The Gilchrist County Courthouse was built in the early 1920's and is a product of the depression-era Works Progress Administration. It houses the County and Circuit Courts, the Clerk of Court, State Attorney, Property Appraiser, Tax Collector, and Supervisor of Elections offices. Over the years there have been three additions and several renovations to the building. Most recently in 2000, the building was renovated to meet today's ADA standards and equipped with a sprinkler and fire alarm system. The County's rapid growth was the determining factor for the latest addition.

A working architectural solution was developed that ensured minimal disruption of courts operations during construction, which specifically

addresses the following criteria: program, operational efficiency, security, ease and clarity of circulation, flexibility of use, and expansion capability.

Scope Summary

The project evolved into a 12,000 SF, one-story, two-courtroom expansion with chambers, with some holding and support areas on the east of the existing courthouse, allowing for future expansion on the west.

This Addition/Renovation represents one of our national court system's greatest challenges; addressing a critical need for additional courtrooms in a small community which has limited funding options, as well as finding ways to maximize the existing facilities. Gilchrist County has a very small but growing population of 19,000, and an existing historic courthouse which has been well maintained and upgraded over

time, but lacked sufficient security measures, courtrooms and supporting office space.

The courthouse addition is sited asymmetrically in relationship to the existing building and the traditional town square. As part of a master plan that includes future phases for the courthouse campus, the overall vision pieces nicely to evoke a symmetrical feel - preserving the campus' historic architectural integrity.

Client
Gilchrist County

Size
Addition: 12,000 SF



Alachua County Courthouse | Gainesville, Florida

Design Achievement

New and Renew

Solutions to Expand and Modernize

Off-Site Solutions

With an existing courthouse in desperate need of space and enhanced security, the county was forced to build a new off-site annex. While it immediately solved the county's space needs, it created operational concerns of how to administer the system from two different locations.

Scope Summary

In an attempt to meet the challenge, the new annex houses all criminal courts while the existing renovated courthouse serves family, juvenile and civil court matters. Additionally, the new criminal courts facility will include the Clerk of the Court for criminal operations, a portion of the court reporting department, and staff from court administration. A new jury assembly space, in the

criminal courthouse, will support both buildings, making up for inadequate assembly space in the existing courthouse.

Building Mass

The new annex building mass is composed of three separate volumes related to the building's functions. The first and largest component is the main courts tower. The separation of the judicial chambers allowed for the creation of a second lower wing. And the third component is a two-story entrance pavilion. The "Z" shaped plan relationship of tower to low wing and entry pavilion creates a powerful urban space and forecourt.

Client

Alachua County

Size

121,300 SF

Awards

2004 Honor Award, AIA Orlando Chapter

2004 Merit Award of Excellence, AIA Florida Chapter

2004 Best Public Building, Southeast Construction Magazine



Calaveras County Courthouse | San Andreas, CA

Design Achievement

The design and planning of the new Calaveras County Courthouse was influenced by several factors. As part of the initial planning sessions, a set of goals and objectives outlining key expectations was developed by the Design Team. These ideas were rooted in the expression of the courthouse as a representation of our democracy and a place of importance in the local community. The rural context, set among delicate oak woodlands and natural topography, was also a source of inspiration. A small archaeological site with Indian grinding stones linked the parcel to an earlier time. This historical connection and views to the Sierra foothills beyond became an integral part of how the Design Team began to think about the building. In short, the building is a gesture toward our place and time, layered with elements of our past and the dignity and honor associated with courthouses.

Scope Summary

The Design Team worked both "inside-out" and "outside-in" to define the building

massing. The architecture is comprised of two main parts, which not only reflects the functional organization of the building, but also organically integrates the building's context. The base of the building is symbolic of the natural surroundings. Mitigating the extreme grade changes, free flowing and organic but weighted and grounded in its materiality, the building base becomes the foundation from which the upper floors spring. Programmatically the first floor functionally reflects this same conceptual idea. The clerk of the court, jury assembly and the court-support offices are all housed on the first level. These components are the foundation and support network to the court system. The upper level of the building is ordered, orthogonal, and balanced. Here the courtrooms are expressed in juxtaposition against the base. Just as the court system provides order and guidance to our changing society, this literal interpretation provides a resolution to the building massing. At the roof line the four courtroom volumes are expressed against a datum of metal which is symbolic of the mountains beyond as they rise above the horizon.

The building interior is organized around a great hall. This two-story space not only provides a referential interior space, but links the users to the outside with views through the building and beyond. The first time visitor can easily navigate between the floors and departments that branch off this single unifying space. A grand stair connects the upper and lower floors as an extension of the procession to the courtrooms. Daylight into the great hall is bolstered by an aperture in the roof, which provides light from above. This connection between the outdoors and nature was an important design goal that is reflected in both the public and private office areas. Interior materials are a continuation of the exterior material palette. Stone and wood are used to clad the interior surfaces and reinforce the dialogue between interior and exterior.

Client
Calaveras County

Size
44,621 SF

Demonstrated Experience in Completing Projects of a Similar Size and Scope:

- b.** *Provide references for the last two clients for whom the firm has conducted projects of a similar size and type. Also provide references for the last three clients for whom the firm has conducted projects specifically with county governments. Include the name of the contact person along with the addresses, telephone numbers and short descriptions of the projects.*

Architectural Vision Group, Assessing Architect - References

Bill Prenosil, Senior Planner
Ohio School Facilities Commission
1410 Highland Road
Macedonia, OH 44056
330-425-2332

Over a ten year period the project included assessment of over 300 buildings in 60 school and master plans of over 40 districts throughout Ohio.

Dr. Larry Parsons, (Former Superintendent)
Mason County Schools
1200 Main Street
Point Pleasant, WV 25550
304-329-0580 ext 226

The project included an in-depth assessment of eleven buildings and their sites, and developed a 10 year master plan for the system. Evaluation criteria included SBA guidelines and standards, local codes, state codes and ADA requirements.

Chambers Murphy & Burge, Restoration Architects - References

Dennis Bigler, Service Director
City of St. Clairsville, Ohio
740-659-0156

For the Initial Assessment project for the Belmont County Courthouse, Chambers, Murphy & Burge and Barber Hoffman Engineers performed field work for the purpose of assessing the conditions of the County Courthouse. The reporting result included maintenance recommendations to prevent further damage to the building and injury due to falling stone.

Mary Lynn Stevens
University of Michigan
Dearborn, Michigan
313-593-5643

One very recent and comprehensive Facilities Assessment accomplished by CMB is the Due Diligence Reporting done for the Historic Ford Estates (and the University of Michigan.) This project utilized TPAS® (the Tablet PC Annotation System) and covered the same 10 categories expressed for concern by West Virginia and three or four additional categories. Because there were multiple buildings, a severe deadline, and several required professional opinions, this project offers an approach that will work well for the historic court houses in West Virginia.

Demonstrated Experience in Completing Projects of a Similar Size and Scope:

DLR Group, Courts Planners and Programmers – References

Jennifer St. John, Administrator
Santa Cruz County
2150 N. Congress Dr.
Nogales, AZ 85621
520-375-7820

For the Santa Cruz Justice Center DLR Group provided comprehensive design and construction administration services for this multi-functional project that combines a new 46,276 SF courts building adjacent to a new 118,427 SF detention center. The justice facility contains five courtrooms, courts administration, clerks, and adult and juvenile probation offices. \$53,555,000 Construction Cost, completed October 2010.

Monnie Gore, Deputy County Administrator
El Paso County
2800 International Circle, Suite N060
Colorado Springs, CO 80910
719-520-6900

The design of the El Paso County, Terry H. Harrison Judicial Complex Expansion accommodates growth in two ways. In the short term, the facility will use 36,650 sf of shell space on floors four and five of the tower to expand the number of courtrooms to six. The long range expansion strategy is that of a second addition. The project cost \$30,640,000 and was completed ahead of schedule.

Architectural Vision Group, Ltd.



History of the Firm

Architectural Vision Group, Ltd. (AVG) is a full service, medium sized, architectural firm whose specialty is the planning and design of building projects. The firm has quickly grown to be a leader architecture design in this area, as well as in facility assessments and master planning. The firm is conveniently located in Cleveland, Ohio and has a notable portfolio of projects throughout both Ohio and West Virginia.

Philosophy

AVG believes strongly in collaboration. An open line of communication between all the project stakeholders is imperative to a successful project. We need this active, informed participation so that we can create a project that is directly responsive to the program needs that are uniquely yours. Our communication skills and authentic "team approach" provides a greater level of service, and ultimately a better final product. Our architectural team has built a reputation for quality design, technical expertise, budget / schedule adherence and above all, being an advocate to the Owner.

Services & Expertise

We offer a broad spectrum of services to our clients. Services include, but are not limited to assessments, master planning, programming, development of design criteria, design (all phases), interior design, and construction administration.

We take our projects and workload seriously, and strive for excellence in each endeavor we take part in. This has led to significant accomplishments at AVG. On the design side, the firm has been recognized for outstanding design in American School and University Annual Architectural Portfolio three times in the last four years.

Additionally, AVG is one of the few architecture firms that have been retained by the Ohio School Facilities Commission to provide assessment and master planning services since 1998. We have established an impressive record in facilities assessments throughout Ohio and West Virginia with nearly 300 building assessments being conducted in the last ten years.

"There are a number of architects technically capable of designing a school, but I haven't met any architectural firm with the integrity, dedication and total commitment to a school district as Architectural Vision Group."

*- Mr. Paul Rigda, Superintendent
Elyria City Schools*



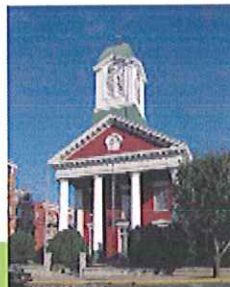
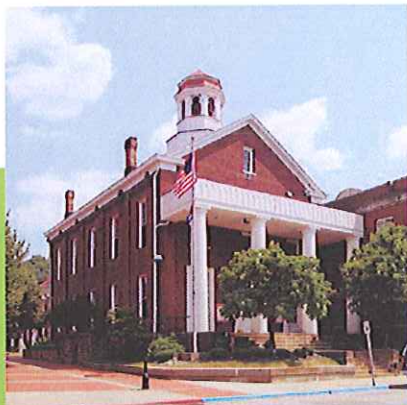
Facilities Assessment Experience

The technical expertise of our staff is paramount to our business and success at delivering exceptional service to our clients. As a result of our team's training and experience, we are able to provide a vast range of services, from assessments and master planning to design and construction administration services for substantial projects that are under design and /or construction simultaneously. The continuity of our staff also brings a greater strength to our team. Our team members are the same group which has been conducting the facilities assessments and master plans for the last 10 years for the OSFC. Syed Abbas has been the lead architect and principal in charge and is supported by Andrejs Smiltars, Vice President, and Cheryl Fisher, Senior Planner on each and every assessment. We have an intimate knowledge and understanding of the processes involved in data collection and report documentation of your ten categories.

We have developed a functional system for assessment that includes 23 categories covering Heating & Air Conditioning System, Roofing, Ventilation, Electrical System, Plumbing & Fixtures, Windows, Building Structure, Walls & Chimneys, Floors & Roofs, General Finishes, Interior Lighting, Security Systems, Emergency Lighting System, Fire Alarm System, Handicapped Accessibility, Site Conditions, Sewage System, Water Supply, Exterior Doors, Hazardous Material, Life Safety, Loose Furnishings, and Technology System. This system includes all your ten categories.

Criteria of these evaluations include local codes, state codes, and ADA. We are also responsible for documenting the existing spaces in the facilities. The data collected, coupled with the physical assessment condition report are compiled into a report and presented in appropriate format once complete.

Our approach focuses on several critical elements imperative to the developing a sound maintenance and improvement plan. We plan to take full advantage of available technology to successfully complete this project assignment. AVG has always been committed to being on the leading edge in the use of technology to deliver services to our clients. This is our philosophical comment to the State of WV project. To the greatest extent possible, we will use computers, databases, networking, and electronic data document control. We plan to use these tools for gathering, cataloging, input analysis, evaluation, communication, reporting, estimating, budgeting, photographing and presentation of data and information needed to complete this project.



Overview

Architecture Vision Group, Ltd. has conducted facilities assessments on over 300 facilities in the last 10 years alone! This equates to \$1.7 billion dollars in implemented value of facility assessments. Our experience ranges from school facilities, to community use complexes (Such as Salvation Army), municipality facilities (Safety Facilities for the City of Cleveland) as well as adaptive re-use assessment studies for the legendary 1912 Agora Opera House located in Cleveland, Ohio. Several of the facility assessments have also been historical facilities.

Our assessment is based upon the following components:

Building & Grounds Assessments: This includes building, site, and systems identification. Our team collects the information requested per the EOI, compile it and enter it into the database program / format agreed upon. Further discussions regarding the appropriate software program are needed to insure the Owner's preference based upon ease of use, ability to manage and continuously update data etc, as there are many programs available with a broad range of capabilities.

Condition and cost assessment: Once we define the criteria, format, etc, for the data agreed upon, our work will also be weighed against standards and specific program needs and will provide an established cost for restoration, renovation, repair and potential expansion of the facility to bring it up to present day codes and standards.

TAYLOR COUNTY SCHOOLS - Assessment and 10 YEAR MASTER PLAN

AVG was selected in 2009 to prepare the 2010-2020 Comprehensive Educational Facilities Plan for the Taylor County Schools. This is a state requirement by the WV Department of Education and School Building Authority of West Virginia for all 55 County School Systems and is conducted on a 10 cycle basis. There are only a handful of architecture firms "certified" by the SBA to conduct the study/work due to the complexity and extensive knowledge in educational planning that is required.

AVG conducted in-depth facilities assessments of all five educational facilities and their sites within Taylor County. Criteria of evaluations included SBA guidelines and standards, local codes, state codes, and ADA. The firm was also responsible for creating "inventory lists" of the materials that composed the building. This including documenting, cataloging, and reporting quantities and types of floor finishes, ceiling materials, paint, paving, roofing, mechanical and electric equipment (ie: boilers, chillers), etc. AVG also studied the existing spaces of the facilities. We evaluated the sizes of the classrooms and large group spaces such as gymnasium, cafeteria, library, etc. based



upon the programs they served in comparison to state recommendations. We also studied building capacities, program capacities, enrollment projections, historic enrollments, etc. as well. This data, coupled with the physical assessment condition report was presented to the committee.

The next task was to "prioritize" and rank the renovation, rebuild, or abandonment of the facilities. We classified each component based upon a three-tiered ranking system. Priority 1 for immediate need, Priority 2 for 5-10 year need, and Priority 3 – non-essential need. This process allowed for the draft formation of the 10-year plan that outlined maintenance plans, new construction plans, and renovation plans with a project schedule and costs associated to each. AVG also developed a long range continued maintenance plan, which aids in the sustainability of current systems, extending the life cycles of the given material and / or building components.

"Cheryl, I just finished the Taylor County CEFP review and I wanted you to know you guys did a great job with the plan. I particularly liked the survey questionnaire and the information provided on the initial building evaluations. Your additions to this document gave a very good description of the existing conditions. Thanks."

David A. Sneed, AIA Associate, REFP
Chief of Architectural Services
School Building Authority of WV



PROJECT SCOPE - PHASE I

- Renovations to Anna Jarvis ES
- Renovations to Flemington ES
- Renovations to Taylor County MS
- Renovations to Grafton HS
- Renovations to Taylor County Technical Center

PROJECT SPECIFICS

- Projects phased over 10 year period
Prioritized by level of need/urgency
- Projects costs split between State
funds from MIP & Needs project
submissions and Local funds

PROJECT COMPLETION

2010 (Master Plan)

OVERALL MASTER PLAN COST

\$11,200,000.00

City of Cleveland - Public Safety Buildings Assessment & Renovations

Recently, AVG was awarded the contract to provide assessment study and professional design services to the City of Cleveland for the Rehabilitation, reconstructing and renovations of 23 Public Safety and Fire Station Facilities.

Initially, AVG conducted facility condition studies of the buildings, with the primary goal to identify and address "warm, safe, and dry" priorities. The inadequacies/deficiencies of each facility were documented and provided an estimated cost to correct, which allowed the Owner to develop a scope of work that met their budgetary limitations.

The scope of work at each building varies, but the primary list of work includes exterior site improvements, kitchen replacements/renovations, door replacement, roof replacements, HVAC upgrades, including RTU and boiler replacement, electrical upgrades, paint, floor replacement, and plumbing fixtures.



Our scope of work includes, but is not limited to conducting physical assessments of the facilities, developing a renovation/rehabilitation budget, working drawings, specification and any other required bid documents, as well as construction administration services.



Greater Cleveland Salvation Army Facility Assessments

AVG was selected in 2009 to prepare a study of the 9 existing Salvation Army facilities in the Greater Cleveland area. The majority of the facilities are multi-use buildings that have classrooms/daycare spaces, temples, soup kitchens and cafeterias, conference and office spaces and gymnasiums. Some of the facilities featured more unique spaces, such as the Hough building which featured a large natatorium (indoor pool complex) as well as fitness/weight area, and indoor roller skating rink. Although well maintained, most of the facilities were experiencing failing systems, such as roofs, mechanical, electrical, fire alarm, etc. due to the age of the equipment. The goal and objective of this assessment was to determine the life cycle analysis of the systems and building components, including site features, develop a prioritize maintenance and deferred reduction plan, and prioritize the need of the inadequacies of all facilities.

AVG conducted in-depth facilities assessments of all nine facilities and their sites. Criteria of evaluations included local codes, state codes, program needs (including educational adequacy for the educational spaces within each building) and ADA.

We prioritized and ranked the maintenance repair or replacement needs, renovation, and site work of the facilities. We classified each component based upon a three-tiered ranking system. Priority 1 for immediate need, Priority 2 for 3-5 year need, and Priority 3 – 5 to 0 year need. This process allowed the Salvation Army to globally and individually see where the needs of their facilities are, and how to address them.

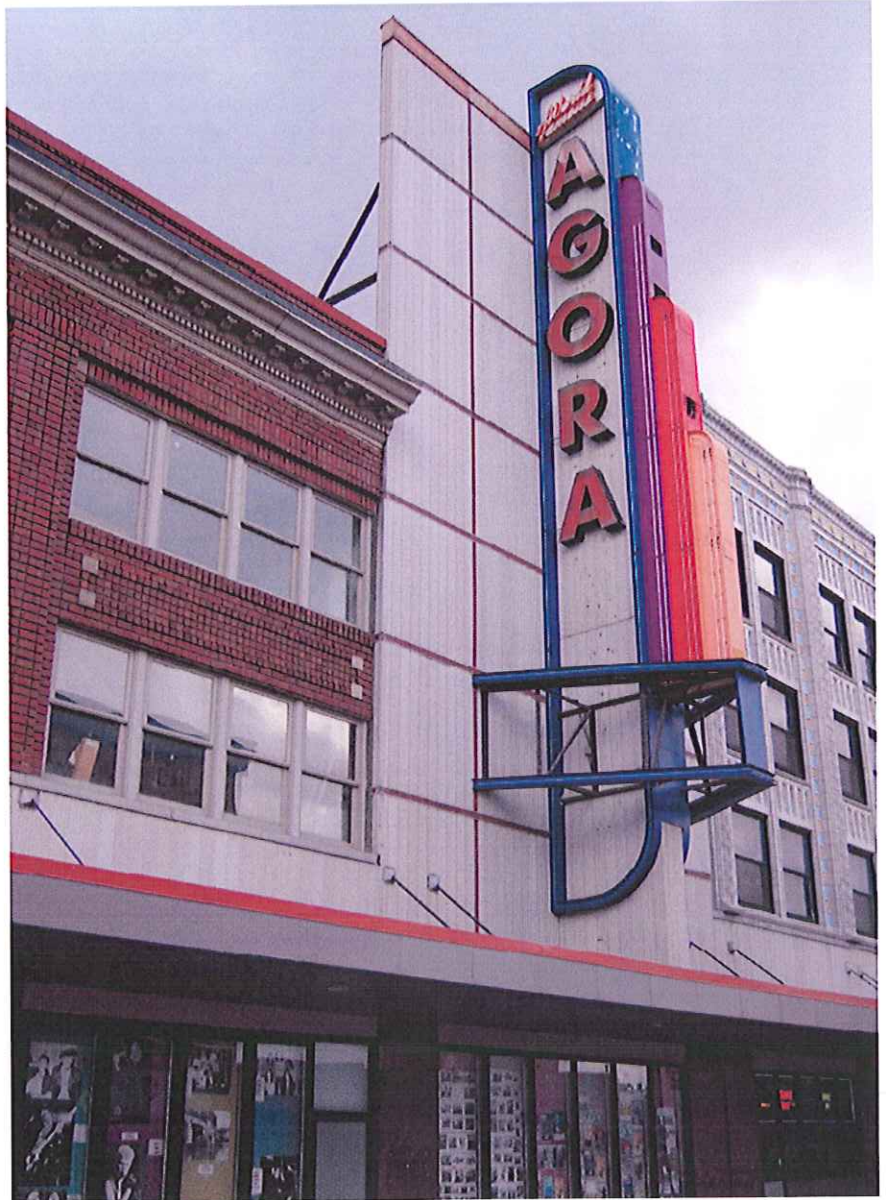
This project was recently completed in 2009, and AVG is currently working on the West Park Facility Addition, which was a need identified from the plan/assessment.



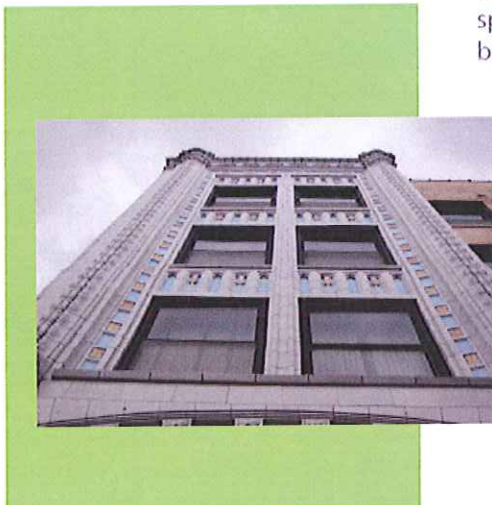
Agora Opera House Assessment & Adaptive Re- Use Study

The scope of services for this unique project included full assessment service of the Agora Facility with the intent explore the possibility and associated costs to convert the facility into a New Cleveland School of the Arts for the Cleveland Metropolitan School District. The Agora Facility is a historic Cleveland landmark that was originally constructed as an opera house in 1912 and is located on the Euclid Corridor.

Our scope of work included the field measurements of the facility to develop accurate floor plans, analysis of existing systems with associated costs for repairs and/or replacement based upon a 23 point check list including, HVAC, roofing, ventilation, plumbing, electrical system, windows, foundations, walls & chimneys, floors & roofs, general finishes, interior lighting, security system, emergency egress lighting, fire alarm system, handicapped accessibility, site condition, sewage system, water supply, exterior doors, hazardous material, life safety, and technology, as well



as any costs associated with reprogramming and conversion of the existing spaces into classroom, academic, and performing arts spaces as a school building.



Education and Experience of Firm's Current Staff



Syed S. Abbas, AIA, REFP

Principal

Mr. Abbas is the founder and President of Architectural Vision Group. With nearly three decades of experience focused on educational architecture, Syed is a recognized leader in the continuously evolving facets of K-12 facilities. His career includes a multitude of accomplishments, including serving on the Facility Advisory Committee for the Ohio Department of Education to develop policy issues and legislative agenda for forthcoming school building assistance program (now established as the Ohio School Facilities Commission).

As President, Syed is in charge of all aspects of the business, including contractual agreements, adequate staffing, programming, project management, and cost control. His focus has always been on the quality and personal attention delivered to clients and is personally involved with each project throughout its duration.

Education

Iowa State University
Master of Architecture

National College of Arts
National Diploma in Architecture

Registrations/Certifications

Architect: Ohio and West Virginia

Member: American Institute of Architects

Member: Council of Educational Facilities Planners International

Member: Bay Village / Westlake Rotary Club

Member: Westshore Chamber of Commerce

Recognized Educational Facility Planner

Relevant Project Experiences

Public Safety Buildings Assessment & Improvements
City of Cleveland
Cleveland, Ohio

Principal In-Charge for assessments and development of renovation and priority need scope of work as well as construction management for 23 structures. 2010-2011

1912 Agora Opera House Feasibility Adaptive Re-use Study
Cleveland, Ohio

Principal In-Charge for building, grounds and infrastructure assessment, cost analysis for adaptive re-use assessment, educational adequacy study to convert facility to K-12 Cleveland School of the Arts - 2009

1894 Historic Washington Bldg. Assessment
Elyria, Ohio

Principal In-Charge for the facilities assessment and implemented design for renovation of the historic portion of Elyria High constructed in 1894 - 2007

Ohio School Facilities Commission

Assessment & Master Planning Team 3 - Principal in-charge for contract from beginning in 1998 and extended through 2013 to provide facilities assessments and master planning services for schools throughout the State of Ohio, including over 300 buildings in 60 districts.

Mason County Schools
Mason, West Virginia

10-Year Master Plan Development Comprehensive Educational Facilities Plan - Principal in charge for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Taylor County Schools
Taylor, West Virginia

10-Year Master Plan Development Comprehensive Educational Facilities Plan - Principal in charge for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Greater Cleveland Salvation Army
Cleveland, Ohio

Principal In-Charge for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

St. Clair Property Assessment
City of Cleveland
Cleveland, Ohio

Principal-In Charge for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

Education and Experience of Firm's Current Staff



Andrejs Smiltars, AIA, NCARB

Principal, Director of Design

Mr. Smiltars has a career span of over 35 years in architecture and planning

practice with a heavy concentration in K-12 and Upper Education projects. His career commitment has always been for a high standard of design. Andrejs has been a Principal of AVG since its inception in 1998.

Andrejs directs the programming, and overall design of the buildings. He is also heavily involved in the interior and landscaping design of our projects. He consults with the clients to establish the design criteria used to develop design options that are functional, desirable and economical, without sacrificing quality or good design.

Education

University of Cincinnati
Bachelor of Architecture

Registrations/Certifications

Architect: Ohio, West Virginia, Florida, Pennsylvania, New Jersey, Arizona and Michigan

Member: American Institute of Architects

Member: Council of Educational Facilities Planners International

Member: Bay Village / Westlake Rotary Club

Member: Westshore Chamber of Commerce

Member: Cleveland Museum of Art

Certificate Holder: National Council of Architectural Registration Boards (NCARB)

Relevant Project Experiences

Public Safety Buildings Assessment & Improvements
City of Cleveland
Cleveland, Ohio

Principal In-Charge for assessments and development of renovation and priority need scope of work as well as construction management for 23 structures. 2010-2011

1912 Agora Opera House Feasibility Adaptive Re-use Study
Cleveland, Ohio

Principal In-Charge for building, grounds and infrastructure assessment, cost analysis for adaptive re-use assessment, educational adequacy study to convert facility to K-12 Cleveland School of the Arts - 2009

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Elyria, Ohio

Principal In-Charge for the facilities assessment and implemented design of renovation to the historic portion of Elyria High constructed in 1894 - 2007

Greater Cleveland Salvation Army
Cleveland, Ohio

Principal In-Charge for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

St. Clair Property Assessment
City of Cleveland
Cleveland, Ohio

Principal-In Charge for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

Ohio School Facilities Commission

Assessment & Master Planning Team 3 - Principal in-charge for contract from beginning in 1998 and extended through 2013 to provide facilities assessments and master planning services for schools throughout the State of Ohio, including over 300 buildings in 60 districts.

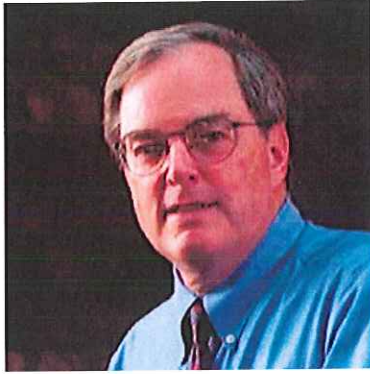
Mason County Schools
Mason, West Virginia

10-Year Master Plan Development Comprehensive Educational Facilities Plan - Principal in charge for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Taylor County Schools
Taylor, West Virginia

10-Year Master Plan Development Comprehensive Educational Facilities Plan - Principal in charge for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Education and Experience of Firm's Current Staff



Richard Bauschard, AIA

Project Director

Mr. Richard Bauschard has 30 years of experience in the practice of architecture. He is experienced in all phases of the building process from programming and planning to project closeout. His primary area of expertise is in institutional projects including upper education, healthcare and historic restoration. His past experience in multiple firm teaming on projects will be an asset on this assignment.

He has been the recipient of the AIA School Medal as Valedictorian of Class, New York Society of Architects Medal – Award for Excellence in Total Design & Construction, and University Citation for Excellence in Creative Arts.

Education

University of Pennsylvania

Master of Architecture

Syracuse University

Bachelor of Architecture

Registrations/Memberships

Architect: Ohio, Florida and Colorado

Member: American Institute of Architects

Former Cleveland Chapter President
& Chairman of National Practice Committee

Qualified by Ohio Historic

Preservation Office as a

Restoration Architect (secretary of interior standards)

Architectural Board of Review

City of Shaker Heights, Ohio

Architectural Review Board

Chairman
Village of Bratenahl, Ohio

Author

"Running the Historic Preservation Gauntlet" Symphony Magazine

Former Trustee & President

Board of Governors, University of Pennsylvania Alumni Club of Cleveland

Relevant Project Experiences

Cuyahoga County Courthouse Cleveland, Ohio

The project consisted of an assessment study followed by a 2 phase implementation of the exterior restoration of the Classical Revival Courthouse, which is one of Cleveland's most significant architectural landmarks.

Allen Memorial Art Museum Oberlin College Oberlin, Ohio

The assessment study was conducted to identify the provocative sources of deterioration of the exterior stone on the 1917 Cass Gilbert designed structure along with the 1977 addition by Robert Venturi (restoration of the recent past).

Garfield National Historic Site (Lawnfield) Mentor, Ohio

The work, which began with an assessment study of the entire site, ultimately included restoration of the grounds, structures, furnishings, fabrics and finishes. It includes the first Presidential Library in the country and an interpretive exhibit of Garfield's life, presidency and assassination was designed in the Carriage House

Bolton Residence Restoration as TRW Guest House Lyndhurst, Ohio

The first step was an assessment study. This 1917 residence, which is on the National Register of Historic Places, was restored for use as a Guest House for TRW Corporation. It required code upgrade to meet hotel occupancy standards and included a security system to allow the structure to be occupied by heads of state without requiring the addition of supplemental security equipment.

Portage Country Club Restoration Akron, Ohio

The 1920's clubhouse was badly damaged by fire. A substantial portion of the top floor and roof structure burned, and water from firefighting operations caused extensive damage to the lower floors. Reconstruction of the historic building to its original appearance was a primary goal with functional and safety improvements also part of the design.

Additional Historic Structures

Cleveland City Hall Exterior Restoration, Cleveland, Ohio

Sherwin Williams, Landmarks Building Restoration Analysis, Cleveland, Ohio

Old Cleveland Post Office Exterior Restoration, Cleveland, Ohio

Huntington Bank Building Interior Restoration, Cleveland, Ohio

Massillon Historical Museum, Giltz Building Restoration, Massillon, Ohio

Baldwin Wallace College, Marting Hall Restoration, Berea, Ohio

Orpheum Theatre Restoration, Phoenix, Arizona

Amasa Stone House Exterior Restoration, Cleveland, Ohio

Ohio Departments Building Interior Restoration, Columbus, Ohio

Education and Experience of Firm's Current Staff



Cheryl Fisher

Senior Planner

Ms. Fisher has over 11 years of experience in educational planning, assessments and master planning for educational facilities. She personally works with the client to develop the programming, renovation and/or new construction scope of work based upon the individual needs and variables of each project while ensuring the fund program guidelines are adhered to. Cheryl works hand-in-hand with the key personnel at the Ohio School Facilities in regards to the Assessment and Master Planning and coordinates all efforts with the bond issue team.

Her responsibilities include on-site field data collection, identifying and prioritizing district and facilities needs, evaluation of educational adequacy of spaces, development of master plan (both short term and long term), and coordination of consultant's data within the final deliverables. She is also responsible for the compilation of data and report generation into the applicable software program utilized for each project.

Education

LCCC - Associate of Science
Wind Turbine Major (currently attending)

LCCC - Associate of Science
Solar Energy Major (currently attending)

Registrations/Memberships

Member: American Planners Association

Member: Society of Women Engineers (Collegiate member)

Member: Nature Conservancy

NCRC Certified
Gold Certification

Relevant Project Experiences

1912 Agora Opera House Feasibility Adaptive Re-use Study
Cleveland, Ohio

Principal In-Charge for building, grounds and infrastructure assessment, cost analysis for adaptive re-use assessment, educational adequacy study to convert facility to K-12 Cleveland School of the Arts - 2009

Greater Cleveland Salvation Army
Cleveland, Ohio

Project Manager for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

St. Clair Property Assessment
City of Cleveland
Cleveland, Ohio

Project Manager for building, grounds and infrastructure assessment, prioritization and cost analysis assessment of 9 facilities - 2009

Ohio School Facilities Commission

Assessment & Master Planning Team
3 - Project Manager (since 2000) for contract from beginning in 1998 and extended through 2013 to provide facilities assessments and master planning services for schools throughout the State of Ohio, including over 300 buildings in 60 districts.

Mason County Schools
Mason, West Virginia

10-Year Master Plan Development
Comprehensive Educational Facilities Plan - Project Manager for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Taylor County Schools
Taylor, West Virginia

10-Year Master Plan Development
Comprehensive Educational Facilities Plan - Project Manager for assessment and master planning services, committee meetings, and development of 2010-2020 10 Year Comprehensive Plan

Woodridge Local Schools Assessment
Peninsula, Ohio

Project Manager for assessments and development of renovation and priority need scope of work of district's school facilities - 2008



Chambers, Murphy & Burge Restoration Architects, Ltd.

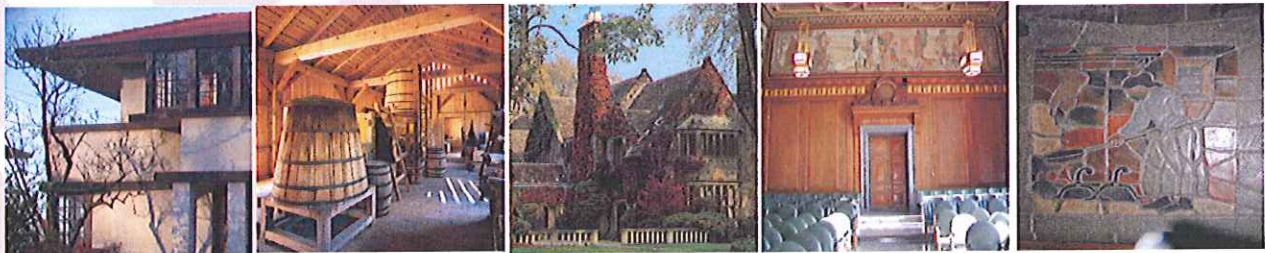
43 East Market St. Suite 201 Akron, OH 44308 t.(330) 434-9300 f.(330) 434-9331 www.cmbarchitects.com

Chambers, Murphy & Burge Restoration Architects, originally founded as Chambers & Chambers Architects in 1963, has been providing Architectural Preservation Services for almost fifty years. Nationally recognized for their expertise and hands-on approach to restoration, the late Henry and Lorraine Chambers authored a manual, Cyclical Maintenance for Historic Buildings, for the National Park Service which remains a standard in the industry today.

In House Services:

Architecture
Building Assessments and TPAS®
Restoration Consultation & Specifications
National Register Nominations
National Historic Landmark Status
Federal Rehabilitation Tax Credit Compliance
Section 106 Compliance Review
Design Guidelines for Historic Buildings and Districts
Feasibility Studies
ADA compliance
Adaptive Reuse & Design Consultation
Historic Building Maintenance and Planning

Programming
Materials Conservation Specification
Archival Research
Inventory of Cultural Resources
Analysis & Chronology of Historic Districts
Grant Research & Applications
Historic Structure Reports
Restoration Zone Delineation
Historic Building Preservation Plan (HBPP)
Restoration Consultation
Analysis of Existing Building Fabric
Defect Surveys & Restoration



SPECIALIZED SERVICES:

Our latest technology involves a program called TPAS®, Tablet PC Annotation System. CMB is a development partner with the creators of TPAS® which allows CMB to take architectural drawings into the field on a tablet PC. The technology allows our personnel to take measurements, conditions photographs, and other data directly into programs for more accurate field work. The notes are linked to the drawings and can then be quantified for use in estimating and specification writing.

Mortar Analysis & Masonry Investigation and Cleaning
Moisture Determination by Instrument Survey
Paint Analysis & Historic Color Identification

Historic Hardware, Window & Door Research
Rectified Photography and Photo-Drawings
Environmental Reviews and MOA satisfaction

THE WORK OF CHAMBERS, MURPHY & BURGE HAS BEEN RECOGNIZED NATIONALLY
FOR HIGH QUALITY PRESERVATION AND RESTORATION ARCHITECTURE.

Offices are located in the Main/Market Historic District of Downtown Akron. Chambers, Murphy & Burge Restoration Architects, a **Woman Owned Business Enterprise**, a **Small Business Enterprise** and is **EDGE** Certified, is currently managed by principals, Elizabeth Corbin Murphy, FAIA and Lauren Pinney Burge, AIA.

COURTHOUSE AND STATE CAPITOL RESTORATION EXPERIENCE

Chambers, Murphy & Burge, Restoration Architects

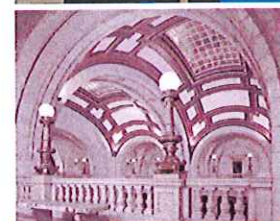
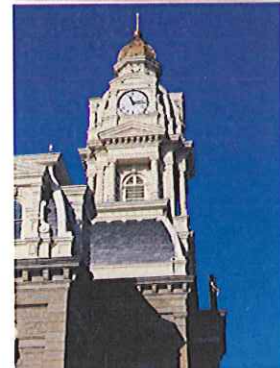
The list below represents projects on which Chambers, Murphy & Burge Restoration Architects have consulted. Chambers, Murphy & Burge was invited back to many of the courthouses for additional work.

Courthouses:

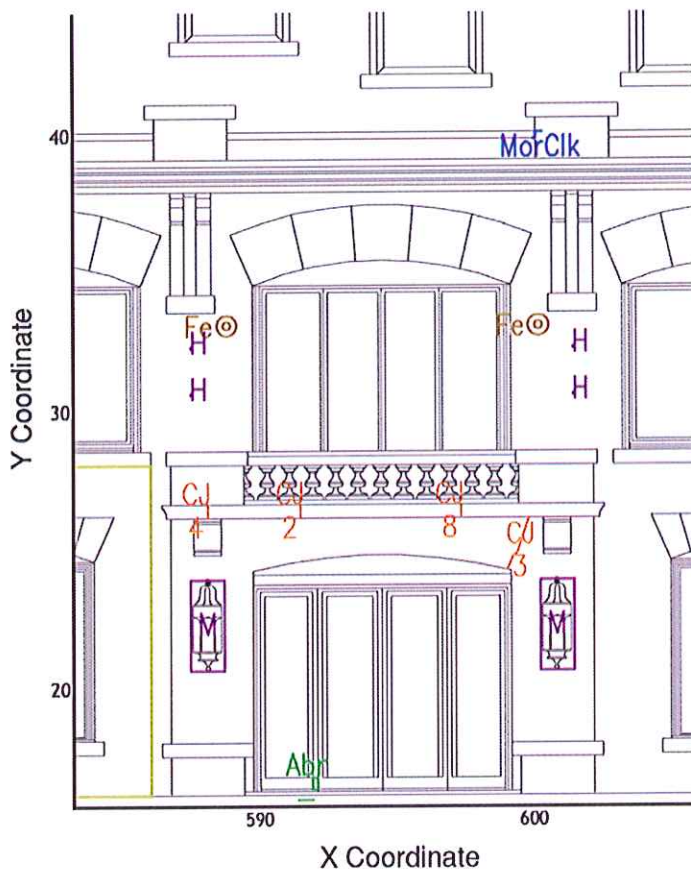
1973	Summit County Courthouse
1973	Medina County Courthouse
1975	Livingston County Courthouse
1976	Decatur County Courthouse - Indiana
1977	Menominee County Courthouse
1977	Cuyahoga County Courthouse
1977	Traverse City Courthouse
1978	Union County Courthouse
1978	Iron County Courthouse - Michigan
1978	Dallas County Courthouse
1978	Wayne County Courthouse - Detroit
1979	Vanderburgh County Courthouse
1979	Pulaski County Courthouse - Little Rock Arkansas
1979	Menominee County Courthouse
1979	Cuyahoga County Courthouse
1979	Cherokee County Courthouse
1980	Iron County Courthouse - Michigan
1982	Trunbull County Courthouse
1982	Cherokee Capitol
1982	Marquette County Courthouse
1983	Midland County Courthouse
1984	Jennings County Courthouse
1984	Polk County Courthouse - Iowa
1984	Dallas County Courthouse
1985	Dallas County Courthouse
1999	Dallas County Courthouse
2000	Cuyahoga County Courthouse - Cleveland
2001	Madison County Courthouse
2002	Ohio Courts Building (Ohio Supreme Court)
2005	Dallas County Courthouse - Texas
2006	Dallas County Courthouse - Texas
2008	Cuyahoga County Courthouse - Cleveland
2010	Cuyahoga County Courthouse - Cleveland
2011	Belmont County Courthouse - St. Clairesville

State Capitols:

Kentucky State Capitol
Ohio Statehouse
Michigan Capitol Building
Nebraska State Capitol
Iowa State Capitol
Old Louisiana State Capitol
Washington State Capitol
Minnesota State Capitol



Chambers, Murphy & Burge
restoration architects



588_33_1



591_25_1



601_22_2

NAME	CODE	CONDITION	AMOUNT	SEVERITY	POSITION X	POSITION Y
Stone Crack	CJ	System joints	0.5	4	587'-8 1/4"	25'-5 9/16"
Stone Unsecured	H	Hole in Mortar	0.003		587'-9 7/16"	30'-5 1/2"
Stone Unsecured	H	Hole in Mortar	0.003		587'-9 7/16"	32'-1 5/8"
ArchMetal Unsecured	M	Missing	3.963		588'-1 3/16"	21'-11 3/4"
Stone Ferrous Element	Fe	Ferrous Element			588'-2 11/16"	32'-8 7/8"
Stone Crack	CJ	System joints	0.5	2	591'-1 7/16"	25'-5 9/16"
Wood Deteriorated	Abr	Abraded	0.069	-	591'-8 3/16"	15'-8 1/16"
Stone Crack	CJ	System joints	0.5	8	596'-11 1/16"	25'-5 9/16"
Stone Crack	CJ	System joints	2.106	3	599'-5 13/16"	24'-0 1/8"
Stone Ferrous Element	Fe	Ferrous Element			599'-7 1/16"	32'-8 7/8"
Stone Joints	MorCik	Mortar Caulked			600'-3 1/2"	39'-2 1/2"
ArchMetal Unsecured	M	Missing	3.963		600'-9 15/16"	21'-11 3/4"
Stone Unsecured	H	Hole in Mortar	0.003		601'-8 7/16"	30'-5 1/2"
Stone Unsecured	H	Hole in Mortar	0.003		601'-8 7/16"	32'-1 5/8"

Photo #: 588_33_1

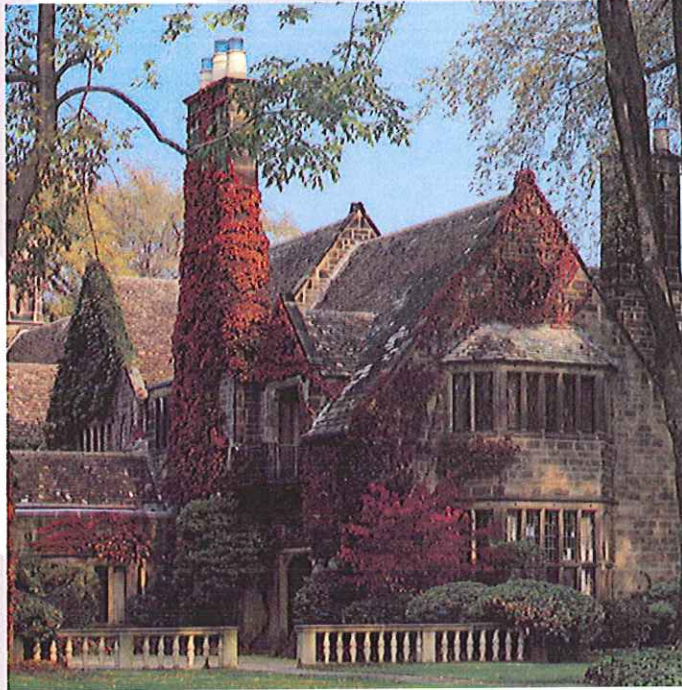
X Coordinate Y Coordinate Photo # at that position

TPAS® Output Sample

© 2011 Chambers, Murphy & Burge Restoration Architects, Ltd.

Edsel & Eleanor Ford House

FACILITIES ASSESSMENT, BUDGET,
CYCLICAL MAINTENANCE, RESTORATION
GROSSE POINTE SHORES, MICHIGAN
ORIGINAL DATE: 1926
NATIONAL HISTORIC LANDMARK



Chambers, Murphy & Burge Restoration Architects have customized a Cyclical Maintenance plan to ensure the long-term preservation of the estate. The firm evaluated six buildings that are part of the estate, including the Main Residence, Power House, Gate House, Play House, Recreation Center, and Activities Building. This plan includes instruction of the staff so that proper routine maintenance procedures and an emergency plan are in place.

In addition, CMB assisted with the implementation of capital projects for each fiscal year's budget as provided. Completed projects include: the restoration of the oriel and bay windows, chimney and parapet repointing, restoration of the powerhouse, and stabilization and restoration of the stone terrace and stone garden wall. The curatorial staff has worked with Chambers, Murphy and Burge to develop an interior moisture monitoring system.



Chambers, Murphy & Burge
restoration architects

And you get your history for free.....

The former private residence of Edsel and Eleanor Ford and their four children was built between 1926 and 1929 on Gaukler Pointe in the fashionable suburb of Grosse Pointe Shores.

Edsel and Eleanor asked architect Albert Kahn and landscape architect Jens Jensen to create their home in the Cotswold style. Three years in the making, this picturesque 60-room sandstone house stands on an 87-acre estate on the shores of Lake St. Clair

The home has been open to the public since 1978 as a house museum, fulfilling Eleanor's wish that the property be used for "the benefit of the public".

Frank Lloyd Wright's Burton J. Westcott House

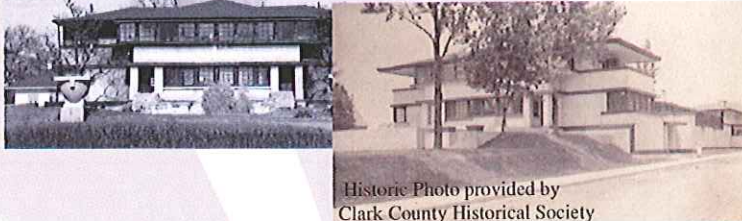
HSR - TAX CREDIT - RESTORATION

SPRINGFIELD, OHIO

ORIGINAL DATE: 1908

NATIONAL REGISTER OF HISTORIC PLACES
2006 OHIO HISTORIC PRESERVATION AWARD

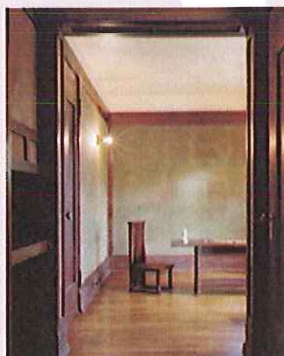
Before Restoration



Historic Photo provided by
Clark County Historical Society



Photos by: Brad Feinknoph



Chambers, Murphy & Burge Restoration Architects was retained by the Frank Lloyd Wright Building Conservancy, who owns a conservation easement on the property, to prepare the Historic Structure Report. This began a five year restoration project. The research and documentation compiled in the Historic Structure Report served as a guideline for complete restoration.

Following the formation of The Westcott House Foundation, Chambers, Murphy & Burge and our partner firm Schooley Caldwell Associates were retained as the architects and engineers for the restoration project. This complete state of the art restoration included a full range of design considerations; restoration of the custom clay tile roof with built in gutters, conservation care of original encaustic wall finishes, restoration of original art glass as well as state of the art systems including air sampling fire detections, and geothermal heating and cooling. Missing elements such as Wright designed furniture, reflecting pool, and historic landscape elements were re-created from historic drawings and photographs.



Chambers, Murphy & Burge
restoration architects

And you get your history for free.....

Frank Lloyd Wright's Westcott House is the only Prairie School era commission designed by Wright in Ohio. Located in Springfield and built in 1908 for auto manufacturer Burton J. Westcott and his wife Orpha, Wright considered it an important design commission as he selected it to be included in his first monograph of his best designs, known commonly as "The Wasmuth Portfolio." Following the deaths of the Westcotts, the house had been subdivided into apartments. Over the years, these alterations and difficulties in maintaining the property caused it to be barely recognizable as the work of the most recognized name in American Architecture.



ELIZABETH CORBIN MURPHY, FAIA

Chambers, Murphy & Burge Restoration Architects, Ltd.
43 East Market Street, Suite 201 Akron, OH 44308
t. 330.434.9300 f. 330.434.9331 emurphy@cmbarchitects.com

Master of Architecture 1985

Kent State University--Preservation of Built Environment

Bachelor of Architecture 1978

University of Notre Dame; Study Abroad in Rome, Italy 1975-1976

Professor of Practice (Graduate Status)

Kent State University—College of Architecture & Environmental Design

PROFESSIONAL QUALIFICATIONS:

Registered Architect Ohio, MI, IN, IL, NY, NCARB

Certified Interior Designer NCIDQ

Federal Qualifications (36 CFR 61) for Architecture, Historic Architecture, History, Architectural History, and Historic Preservation Planning,

PROFESSIONAL AFFILIATIONS:

GSA Public Bldgs Service--National Register of Peer Professionals

American Architectural Foundation Board of Regents 2001-2009

American Institute of Architects

- AIA College of Fellows
- AIA/Historic Resources Committee, National Chair (Past)
- AIA Ohio Executive Board 2011-2015
- AIA Akron President (Past)
- Design Awards Jury, National AIA Honor Awards

University of Florida: Board of Advocates for Preservation Program

American Institute for Conservation of Historic & Artistic Works

SIGNIFICANT PROJECTS: representative listing

Edsel & Eleanor Ford House--Cyclical Maintenance Plan/Restoration
Octagon Museum--Assess Appropriate Use, Natl Historic Landmark
Fair Lane, The Henry Ford Estate--Cyclical Maintenance & HABS
Ohio Supreme Court --Tech Rest Mosaics/Bronze w/Schooley Caldwell
University Welcome Center (adaptive use)-Alfred University, NY
Rutherford B. Hayes Presidential Home -- conducted HABS dwg team
School of Fashion Design KSU-- Cleve Intl Design Award (w/Myers)
Ohio & Erie Canal Natl Heritage Corridor Management Plan (w/Icon)

LECTURES/PUBLICATIONS: representative listing

"Up the Back Staircase, Real Life Places in Am. Legacy" Stan Hywet
"Opportunities for Design Excellence" AIA Ohio Conference Oct 2010
"Midwestern Dream Team"- Traditional Building Magazine Oct. 2005
The House as the Collection- Building Connections 2004
Cyclical Maintenance Planning, Restoration/Renovation 2003 Baltimore
Nat'l Historic Treasures Restored & Preserved, AIA Cleveland
Technical Session on Maintenance, Williamsburg APT 30th Ann Conf
"What It Feels Like to Be a Building", U Akron, Women's Hist Month

HONORS & AWARDS: representative listing

Peterson Prize Award --Nat'l Competition. Directed 5 First Place Teams
Wright Spirit Award --Frank Lloyd Wright Bldg Conservancy 2009
AIA Ohio Design Award -- Kirtland Flats Historic District
NAWBO Top Ten 2005--Ntl Assn of Women Business Owners NE Ohio
Women in Science, Mathematics & Engineering (Ohio)—Exemplar

COMMUNITY SERVICE

Ohio Heritage, Inc.
Michigan Preservation Trades Network
Cleveland Restoration Society
Boy Scouts of America Troop 1 Akron & Great Trail Council.

ELIZABETH CORBIN MURPHY, FAIA

Chambers, Murphy & Burge will recycle old historic structures for new uses or restore unique landmarks to strict conservation standards. The firm of which Ms. Murphy is principal was founded as Chambers & Chambers Architects almost fifty years ago, and is dedicated solely to preservation and restoration technology and design. Elizabeth and her business partner consult with other architects on projects like the Dallas County Courthouse, the Supreme Court Building in Columbus, and the Minnesota State Capitol. The firm assists architects and building owners with the state and federal rehabilitation tax credits. Elizabeth has developed with Edsel & Eleanor Ford House a Cyclical Maintenance Plan for the care of the six Albert Kahn structures at Gaukler Point. The Cyclical Maintenance Plan for the Henry Ford Estate in Dearborn incorporates 13 structures, in a Jens Jensen landscape.

Elizabeth Corbin Murphy, FAIA is past chair of the Advisory Group for the American Institute of Architects National Committee on Historic Resources. Ms. Murphy is a Professional Peer for the GSA Design Excellence and First Impressions Programs. She has served on several design awards juries including the AIA National Honor Awards, the GSA National Design Excellence Awards, the AIA Ohio Gold Medal Award, the AIA Cleveland Honor Awards, and the Charles E. Peterson Prize Awards. Having served for nine years with the Board of Regents for the American Architectural Foundation and serving on the Octagon Committee, Ms. Murphy now serves on the Board of Advocates for the Preservation Institutes of Nantucket (PI:N) and Saint Augustine (PI:SA), both programs of the University of Florida College of Design, Construction and Planning.

With her professional degree from the University of Notre Dame, Ms. Murphy completed the Masters of Architecture program at Kent State University to allow herself more research time in preservation of the built environment. Ms. Murphy is a Professor of Practice at Kent State University where the students she teaches have won eleven national awards in the thirteen entries made to the Charles E. Peterson Prize Competition. Ms. Murphy's students have more "first place" awards than any other professor.

Ms. Murphy's knowledge of restoration standards and principles had been demonstrated early in her career by her Master of Architecture Thesis "Conservation, Restoration, Extended and Adaptive Use: The Significance of Recycling Buildings with Respect for Architecture of the Past and Consideration for Present and Future Use", which studied the impact of the Secretary of the Interiors Standard for Rehabilitation. The inventory of 20 buildings and subsequent seven case studies evaluated consisted of already completed renovation projects involving National Register of Historic Places properties and the employment of Federal Government financial assistance.

Understanding federal guidelines and extensive participation in the National Register for Historic Places, the Historic American Building Survey, and the Rehabilitation Investment Tax Credits has enabled Ms. Murphy to share experience with many cities and townships in regard to rehabilitation and economic development.

Her expertise extends from schematic design to construction documents from field supervision, to peer review. Ms. Murphy has directly related experience as both a Principal/Project Manager and a Restoration Architect. Ms. Murphy has extensive experience in planning and programming.

Elizabeth Corbin Murphy FAIA is a principal member of Chambers, Murphy & Burge, Restoration Architects a Small Business Enterprise and a Women-Owned Business Enterprise. CMB is EDGE certified in the State of Ohio.



LAUREN PINNEY BURGE, AIA

Chambers, Murphy & Burge Restoration Architects, Ltd.
43 East Market Street, Suite 201 Akron, OH 44308
t. 330.434.9300 f. 330.434.9331 lburge@cmbarchitects.com

Bachelor of Architecture 1985

Kent State University

Graduate Studies in Preservation

Kent State University—Preservation of the Built Environment

Professional Education

Applied Optical Microscopy, Certificate from Smithsonian Institute
Center for Materials Research & Education

PROFESSIONAL QUALIFICATIONS: Registered Architect Ohio 1988
Federal Qualifications for Architectural History, Architecture,
Historic Architecture and Historic Preservation Planning

PROFESSIONAL AFFILIATIONS: American Institute of Architects
Association for Preservation Technology International
National Trust for Historic Preservation
Heritage Ohio

SIGNIFICANT PROJECTS: Representative Listing
First Energy Tower at the Akron Centre Plaza – TPAS® Conditions Assessment 19 story tower
Bowling Green State University – Conditions Assessment of multiple buildings
Consulting Preservation Professional for Certified Local Government: City of Akron
KSU Multiple Building Assessment, Restoration and Roof Repairs-TPAS® Conditions Assessment
KSU Emergency Repair at Student Center with Barber Hoffman - Masonry Repair
KSU Emergency Repair at Library w/Barber Hoffman- determined design & construction flaws &
designed the means to repair the building's stone trim without repeating the failures
The Henry Ford Estate - Cyclical Maintenance Planning, Restoration Specifications,
The United Building, Akron - Restoration Specifications, Paint Analysis
The Serum Bldg, Department of Agriculture/Ohio - Adaptive Reuse
Ohio Supreme Court - materials restoration w/Schooley Caldwell Assoc
Austin State Hospital - restoration consult, mortar and paint analysis
Kentucky State Capitol Great Halls Renovation-Conditions Investigation
West Hill Reconnaissance Survey for 106 Reviews

HONORS & AWARDS: representative listing
Wright Spirit Award, Frank Lloyd Wright Building Conservatory
Palladio Award—Ohio Courts Building (w/Schooley Caldwell)
Juried Exhibitor – Contemporary Works of Faith, Liturgical Art Guild

LECTURES/PUBLICATIONS:
Assoc For Preservation Tech Intl Conf “Non-destructive Testing in the Analysis of the Impact of Climate
Control on Paint Film”
Frank Lloyd Wright Bldg Conservancy “Cyclical Maintenance Planning for Wright Homeowners” & “Not One Lost!”
National Park Service “Cyclical Maintenance for Historic Structures” (Preservation Brief)
Contributor to Publication “Geneva-Revitalization Through Preservation”
Guest Editor, Akron Beacon Journal “Economic Development with Eye on Preservation”
AIA Ohio Conference “Architectural Design Review- Is it Working?”
Akron Bar Association “Preservation Incentives for Real Estate Development”

COMMUNITY SERVICE &
COMMUNITY ORGANIZATIONS: representative listing
Ursuline College, Preservation Advisory Board
Progress Through Preservation, Board of Trustees
Environment and Art Committee, CDC

LAUREN PINNEY BURGE, AIA

As a registered architect and a principal of Chambers, Murphy & Burge Restoration Architects Ltd., Lauren Burge's areas of expertise include existing building assessment, architectural design, restoration and adaptive re-use, materials restoration, historic streetscape restoration, and historic preservation tax credits.

CMB is a Development Partner for assessment specific TPAS® software. The Tablet PC Annotation System interacts directly with AutoCAD® while Burge's team is in the field. Photographs are taken and linked to their location on the AutoCAD document through this process, but even more valuable is the architect's annotation of building defects that can be quantified by use of a simple spread sheet and linked directly to the annotation on the AutoCAD drawings.

Ms. Burge compiled and presented a panel discussion on the value of Design Guidelines for the American Institute of Architects Ohio Region and for the AIA Columbus Chapter. She and CMB worked closely with Pressley Associates on the Forest Hill Park Master Plan. CMB developed guidelines for restoration and development of the architectural resources of this Rockefeller legacy for the Cities of East Cleveland and Cleveland Heights. Ms. Burge established guidelines for the development and adaptive use of the Malvern School property in Shaker Heights.

Working with Icon Architecture (Boston), Chambers, Murphy & Burge was responsible for the Historic Resources Inventory in the Ohio & Erie Canal National Heritage Corridor Management Plan. This plan included work by Ms. Burge to define the parameters by which historic resources in the 108 mile Canal Corridor be recognized, advising the municipalities on the economic development potential of these resources. This management plan was a response to the federal mandate for guidelines to develop the corridor and dispense the ten million dollars in federal grants.

With restoration projects such as Trinity Lutheran Church (Akron) and Huntington National Bank (Ashland) to her credit, she has designed and detailed stone replacements for badly deteriorated units and written technical specifications for restoring many materials. For the restoration of St. Mary's Church, a National Register of Historic Places structure, Ms. Burge designed a new narthex addition, which took queues from the architecture of the existing 1851 structure. For the "Serum Building" at the Reynoldsburg Campus of the Ohio Department of Agriculture, Ms. Burge led the design team to create an adaptive reuse of an early 20th century laboratory building into modern office use, while restoring lost architectural detail.

The Cyclical Maintenance Plan for the Edsel and Eleanor Ford House has been implemented leading to the similar plan for The Henry Ford Estate (Fairlane) in Dearborn. Because of her experience with developing Cyclical Maintenance Plans, Ms. Burge was asked by the National Park Service to contribute to the preparation of a Preservation Brief on Cyclical Maintenance for Historic Structures.

Ms. Burge served as Project Architect for the restoration of an 1860's farm complex, for the City of Brunswick, Ohio. This Federally funded (CDBG) project will serve as an educational center, museum and offices for the Brunswick Historical Society. She has served as part of the project team, doing investigative work, for the Kentucky State Capitol Great Halls Renovation, The Ohio Supreme Court and the Historic National Road Building in Lewisville, Indiana. She served as Principal-in-Charge of the restoration of Frank Lloyd Wright's Burton J. Westcott House in Springfield, Ohio.

Ms. Burge has been an active member of Progress Through Preservation in Akron, is serving on the Board of Trustees. She has served often on the non-profit organization's planning committee for their annual Historic District Tours. She has been a frequent speaker on Historic Preservation from local to international forums. Topics range from the technical "Non-destructive Testing in the Analysis of the Impact of Climate Control on Paint Film" to the philosophical "Architectural Design Review-Is it Working?" Ms. Burge brings to each project more than 20 years of design experience, combined with knowledge of architectural history and technical expertise. Experience in preservation includes Historic American Buildings Survey drawings of the Chapman-Hill House, an 1877 structure in Twin Lakes and acknowledged contributions to the publication "Geneva, Revitalization Through Preservation" for the City of Geneva, Ohio.



ASHLEY N. CRAMER LEED AP ID+C

Chambers, Murphy & Burge Restoration Architects, Ltd.
43 East Market Street, Suite 201 Akron, OH 44308
t. 330.434.9300 f. 330.434.9331 acramer@cmbarchitects.com

PRIMARY ROLE:

Interior Designer, LEED AP ID+C

Bachelor of Arts in Interior Design 2008

Kent State University, CIDA Accredited Program

Florence Study Program 2007

KSU Studio at Palazzo dei Cerchi

PROFESSIONAL AFFILIATIONS:

LEED® AP ID+C

NCIDQ meets educational & professional requirements

Federal Qualifications (48 FR 44716) for Architectural History

SIGNIFICANT PROJECTS:

Representative listing

National Park Service-- Heritage Documentation Program,
HAER Western Maryland Railway Team

Cuyahoga County Courthouse, Cleveland, OH
Historic materials restoration and ADA Improvements

City of Portsmouth, OH *Design Guidelines for the City of
Portsmouth Historic District & Listed Properties*

Walden Woods Project, Thoreau Institute, Lincoln, MA
Campus Feasibility and Technical Assessment

City of Green, OH *Design Guidelines for Historic Local
Landmarks and Historic Districts*

Belmont County Historic Sheriff Residence and Jail. *Assessment,
Interior design and materials selection, documents.*

Manatoc Dining Hall in the Cuyahoga Valley National Park
*Interior Materials Selection for addition & restoration of
Albert Good designed Scout Camp*

City Hall, Shaker Heights, OH
ADA Improvements and materials specifications

Wick Pollock, Youngstown State University, Ohio
*Specifications, historic lighting selection,
and Historic Structures Report*

Lodi Depot, Lodi, OH
Historic Structures Report

Historic Hartong House, City of Green, OH
Feasibility Study

HONORS & AWARDS:

Charles E. Peterson Prize for Architectural Documentation
Historic American Building Survey
Findlay Academy – Second Place 2008



PORTFOLIO

COURTS FACILITIES



| DLR Group |

DLR Group is an integrated design firm providing architecture, engineering, planning and interiors services. With more than 500 professionals in 21 offices located across the United States, DLR Group combines national experience with local expertise to exercise design innovation with responsive service.

What We Do

DLR Group's design elevates the human experience. Clients collaborate with us to create enduring places for living, learning, working and protecting... sustainably. Our Justice+Civic practice, ranked #1 by World Architecture for the past six years, we understand the pragmatic realities of time sensitivity and budgetary respect. As the leading national designers of over \$3 billion in justice+civic construction, we know what it takes to meet stringent schedules and budgets suited to your specific needs.

Where We Excel

While the breadth of our work touches on all aspects of human experience, we have developed focused expertise in key Justice+Civic sectors including government administrative facilities, justice projects, public safety buildings, military stations and training centers. Our clients include Federal, State, County, City and other regional agencies throughout the nation.

Secure, efficient, sustainable, safe. This is the language of justice+civic design. We speak this language and mix it with in-depth knowledge of day-to-day operations and best business practices of the industry. We understand the variety of management philosophies, security levels, demographics, growth projections, staffing scenarios, and public sensibilities over site selection.

listen.DESIGN.deliver

DLR Group produces award winning work, but clients work with us because we deliver more than outstanding buildings and spaces. We bring you a collaborative experience rooted in our service approach: listen.DESIGN. deliver.

We truly listen to your vision, goals and objectives. Only once we've listened do we design to meet your needs with effective creativity. And we deliver on the promise of utmost quality.

Integrated Design Practice

As an integrated design firm, DLR Group offers interdisciplinary design services in-house. Professionals from all disciplines work side by side daily as design collaborators to create facilities exhibiting the clarity of purpose and effective functionality that a truly integrated design team can produce.

EXPERIENCE



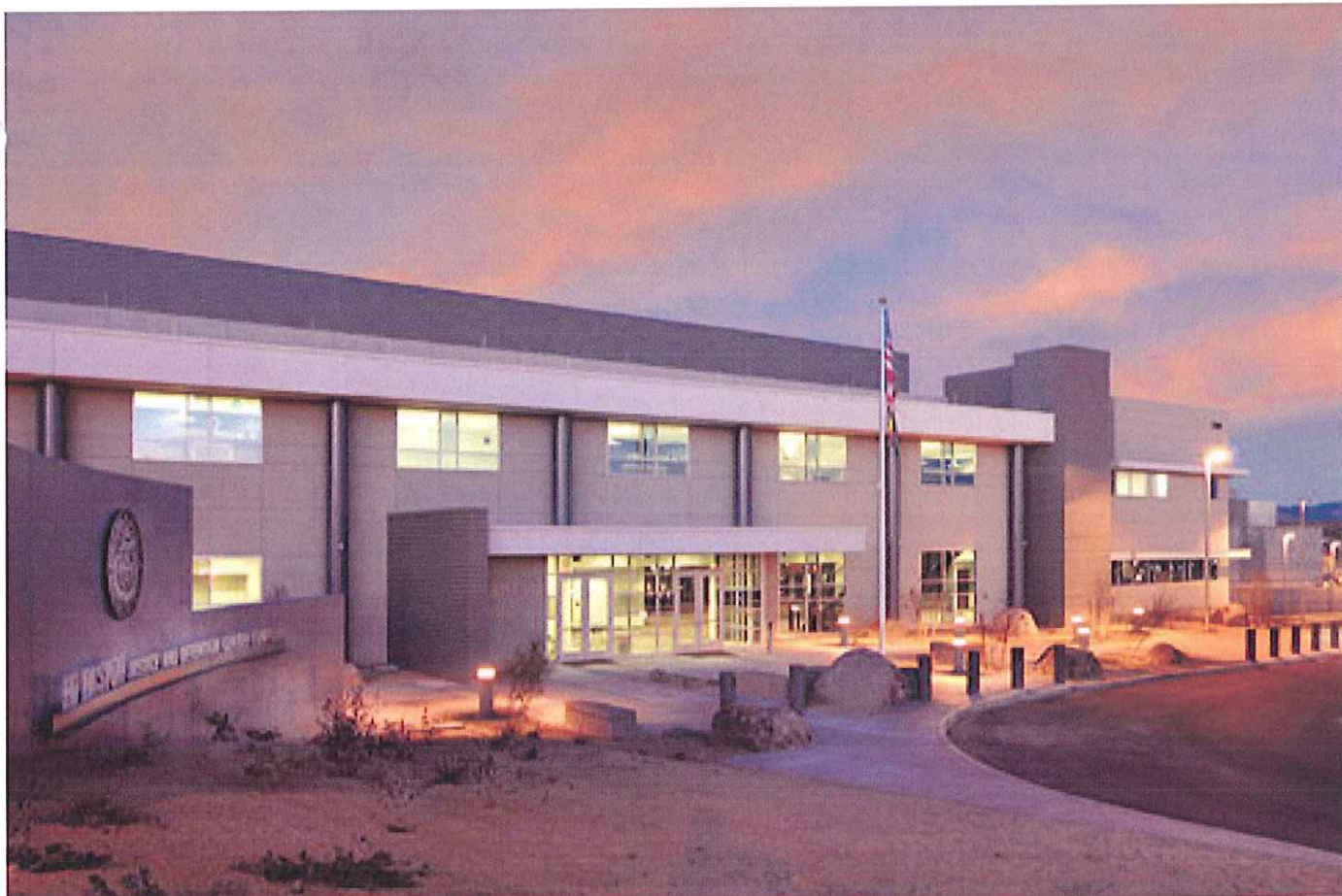
Federal Courts

- Alachua County Courthouse, Gainesville, FL
- Bishop Henry Whipple Federal Building Renovation, Ft. Snelling, MN
- Warren E. Burger Federal Building and U. S. Courthouse Renovation, St. Paul, MN
- George C. Young US Courthouse and Federal Building Modernization, Orlando, FL
- Iowa Judicial Branch Building, Des Moines, IA
- Robert A. Swadell Justice Facility Expansion, Henderson, NV
- Roman L. Hruska United States Courthouse, Omaha, NE
- Wayne. L. Morse U. S. Courthouse, Eugene, OR

County / Municipal Courts

- City of Anacortes, Long Term Police and Courts Space Needs Study, Anacortes, WA
- Butte County Courts Expansion, Butte, CA
- Burt County Courthouse and Jail Remodel and Addition, Tekamah, NE
- Calaveras County Courthouse, San Andreas, CA
- County of San Bernardino 303 West Third Street Building Improvements, San Bernardino, CA
- Courts Conversion and Town Hall Rehabilitation, Paradise Valley, AZ
- Cowlitz County Law and Justice Facilities Plan, Kelso, WA
- Crawford County Courthouse, Pittsburg, KS
- City of Everett Phase I Police Department/Municipal Court Architectural Program, Phase II Police Department/Municipal Court Space Plan, Phase III Police Department/Municipal Court Space Plan, Everett, WA
- El Paso County Judicial Expansion, Colorado Springs, CO
- Elyria Municipal Courts Facility, Elyria, OH
- First District Court of Appeals Annex, Jacksonville, FL
- Flagstaff Municipal Courts Complex, Flagstaff, AZ
- Gilchrist County Courthouse Addition and Renovation, Trenton, FL

- Glendale Public Safety and Courts Facility Interior Design, Glendale, AZ
- Grant County Justice Facility Justice Facilities Master Plan and Programming, Ephrata, WA
- Highlands County Courthouse Renovation/Expansion, Sebring, FL
- Jackson County Juvenile Services Center, Medford, OR
- La Crosse County Law Enforcement Center, La Crosse, WI
- Lafayette Police and Court Facility, Lafayette, CO
- Marion County Correctional and Courts Facility, Salem, OR
- Sacramento County Juvenile Court Facility, Sacramento, CA
- Salt Lake County Renovation and addition of 3 courtrooms, Salt Lake, City, UT
- San Juan County Jail and Courthouse, Monticello, UT
- Santa Cruz County Justice Complex, Nogales, AZ
- Scott County Government Center Courtroom Addition, Shakopee, MN
- Seattle Police and Municipal Courts, Seattle, WA
- Shawano County Courthouse and Jail, Shawano, WI
- Sherman S. Welpton, Jr. Hall Courtroom Addition, Lincoln, NE
- Sheboygan County Law Enforcement Courtroom Study, Sheboygan, WI
- Sparks Justice Center, Sparks, NV
- South Orange County Courthouse, Laguna Niguel, CA
- Southeast Regional Public Service Center, Maricopa County, Mesa, AZ
- Tulsa Municipal Juvenile Facility, Tulsa, OK
- Waupaca County Courthouse Jail Remodel/New Courthouse, Waupaca, WI
- Yuma County Juvenile Justice & Detention Center, Yuma, AZ



Santa Cruz County Justice Complex | Nogales, Arizona

Design Achievement

DLR Group provided comprehensive design and construction administration services for this multi-functional project that combines a new 46,276 SF courts building adjacent to a new 118,427 SF detention center. The justice facility contains five courtrooms, courts administration, clerks, and adult and juvenile probation offices. The Detention Center includes juvenile and adult detention, support spaces, and sheriff's offices.

With its prominent, hill-top, border community location, the design team developed a dignified design that tied the disparate components together through similar materials and massing. Site development that allowed the buildings to 'climb' with the existing topography was critical in developing the necessary adjacencies, creating a dynamic form and maintaining the budget. The stepping of the buildings also helped define clear entries to the multiple and dissimilar functions of the complex.

Scope Summary

Courts: 5 courtrooms; 37,662 SF
 Sheriff's Office: 12,407 SF
 Court Clerk/County Offices:
 6,675 SF
 Adult detention: 348 beds;
 90,626 SF
 Juvenile detention: 32 beds;
 18,796 SF

Client

Santa Cruz County



El Paso County Terry H. Harrison Judicial Complex Expansion* | Colorado Springs, Colorado

Design Achievement

Elements of Homeland Security

Controlled Access, Operational Efficiency

The design of the El Paso County Courthouse Addition is a direct response to the highly complex operations. The architectural design team, working closely with the user group, arrived at a functional architectural solution, which specifically addressed the following criteria: Operational efficiency, security, ease and clarity of access and circulation, flexibility, expansion capability.

Scope Summary

This project includes 9 new courtrooms and chambers, First Appearance Center, Jury Assembly Area, County Security Command Center, Probation Department, Court CARE, District Attorney Office Court Function, and a secured below grade Judges Parking Garage.

Homeland Security

Several homeland security elements were integrated into the project to reduce the threat to security:

- Single point of public entry into the Judicial Complex
- 100% clean environment (everyone who enters the building, public or employees, excluding Judges, go through magnetometers and x-ray machines)
- Security screening and queuing based on FAA guidelines
- Eliminated on-street parking within 60' of structure, concrete security bollards across public plaza
- All exterior doors are alarmed to notify security of unauthorized entry or exit.

The design accommodates growth in two ways. In the short term, the facility will use 36,650 sf of shell space on floors four and five of the tower to expand the number of courtrooms to

six. The long-range expansion strategy is that of a second addition. If needed, another wing could be built in the space now occupied by the metro jail. This wing would seamlessly tie into the existing public, secure, and in-custody circulation systems.

Awards

Winner, 2006 AIA Design Excellence Award

*In association with
Anderson, Mason, Dale



Sacramento County Juvenile Courthouse | Sacramento, California

Design Achievement

Functional Forms

Courts Link to Administrative Hubs

Dignity & Dynamics

Development of the architecture proceeded along the dual aims of creating a building to reflect the dignity and honor appropriate to a courthouse, while creating a dynamic civic statement sympathetic to the fabric of the existing juvenile campus.

Scope Summary

This new Sacramento Juvenile Courthouse consists of three stories. The two upper court floors include four juvenile courtrooms each paired in groups of two around court holding areas, with chamber/clerk suites, and adjacent court support functions. Located on the first floor is the juvenile delinquency reception/clerical support area, media center, court security and control, in-custody delivery and transfer/

staging area, building services and the main entrance lobby.

Secure Zone

The secure zone is designed to protect judges, their immediate staff, clerks and juries. This zone originates in the lower level at the secure judicial parking area. A dedicated elevator moves the judiciary up through the various levels to their respective offices on court floors.

This area is designed to isolate the records, evidence movement, judges and staff during the day-to-day activities within a secure environment. Additionally this allows the judges to have a higher level of interaction and sharing of functions. It also places the judicial chamber in a location, which gives nearly equal travel distances to all courtrooms. Access from the public zone is strictly controlled and monitored. In-custody juveniles will arrive and leave directly from the detention housing via a

secured corridor. Dedicated elevators and corridors provide isolated movement of in-custody juveniles within the courthouse.

Client

Sacramento County

Size

97,400 SF

Awards

Winner, 2006 Project of the Year, Structures Category, American Public Works Association

Winner, 2006 Design Excellence Presentation Best in Show, AIA Orlando Chapter



Jackson County Juvenile Services Center* | Medford, Oregon

Design Achievement

Community Focus

Governmental Campus

Jackson County Juvenile Services Center houses 48 juveniles in phase I, with an additional 40 juveniles in phase II. The facility accommodates a community-based approach to juvenile treatment. During a typical day, some of the student population works outside the facility grounds. Those students who remain will participate in vocational and educational training, institution chores and other activities.

Design of the building is based on medium security, single-cell requirements. The detention center is planned to allow visual control from a central control point. There is a shelter component for those juveniles, who are unable to be released to a parent or guardian, but

who do not need to be detained.

The facility also houses a juvenile court and hearings room with planned future expansion of another full, jury-capable courtroom.

Scope Summary

Situated on the Jackson County Campus, this facility will serve as a cornerstone architectural statement for the county. It is also part of an urban governmental core organized around a public green and covers the entire site to the lot line. Public spaces, courts, court school, and counselor offices are on the public ground floor and housing is on the second floor opening to internal outdoor courtyards not visible from the street.

Client

Jackson County

Size

65,245 SF

Awards

2005-2006 Justice Facilities Review, AIA/CAJ

*In association with Skelton, Straus & Siebert



City of Henderson Justice Center Courthouse* | Henderson, NV

Design Achievement and Scope Summary

This 44,000-square-foot expansion to the Robert A. Swadell Justice Facility for the City of Henderson provides much needed trial space and growth for the agencies that support the judicial process. The building program identifies a need for four new courtroom and five judicial chambers. Office space for the clerk of court, city attorney, and court programs account for the balance of the program area. Also part of the project scope is the design and planning of a three-level parking structure and site planning approximately 250 spaces of surface parking at the back of the site.

The building design draws upon the contemporary vocabulary of the existing structure and allows it to flourish as the expansion transitions from the regular rhythm of the courtroom module to the more plastic office component. This change in the

building program is marked by both a change in the exterior detailing and building massing.

Acting as the hinge point between these two vocabularies is a glass enclosed stair tower. It is at this point that the massing of the office floors allows the building to step back both in plan and in height. The reduction in height at the office wing allows it to become subordinate to the main courts bar in the overall composition of new versus old.

Client
City of Henderson

Size
44,000 SF

*Completed in association with Carter Burgess.



Roman L. Hruska United States Federal Courthouse | Omaha, Nebraska

Design Achievement

A prominent feature of this new courthouse is the coexistence of three distinct user groups: defendants in custody, judges and their staff and the public. All three groups must be accommodated to affirm the principle that every citizen has equal access to the law. The design of the new Roman L. Hruska U.S. Courthouse conveys the integrity, permanence, and restraint that are embodied in the administration of justice.

Designed in association with Pei-Cobb Freed and Partners, the building's distinctive design features include a four-story, 95-foot atrium that rises into four steel-paneled cantilevers above the roof. The site features an outdoor plaza landscaped with a grove of 36 ginkgo trees.

Scope Summary

The 335,700 SF mid-rise building contains nine courtrooms, space for the U.S. Attorney General and U.S. Marshall, and secured parking for 54 vehicles.

Security systems include a main entrance pavilion that houses the security check station. Design considerations include clarity in circulation, security check points, vehicular and personnel sallyports, and layout of corridors, stair wells and elevators that isolate defendants from the public, judicial and administrative personnel.

Client
General Services Administration

Size
335,700 SF

Awards
1997 Justice Facilities Review, AIA/CIJ



Iowa Judicial Branch Building | Des Moines, Iowa

Design Achievement

Located on the southern edge of the State of Iowa capitol complex, this classically derived five-story building provides space for the State of Iowa Judicial Services, previously located at five sites around Des Moines. Adding a distinctive, yet progressive look to downtown, this new facility is a complementary addition to the Iowa State Capital campus. The building is arranged on a hierarchical concept in conjunction with the levels of the court system, both of which reach their pinnacle at the Supreme Court.

Two main features of the five-story Iowa Judicial Branch Building include an interior atrium and a 100-foot tall rotunda, capped by a copper dome wrapped in clerestory windows. The north-facing front is four visible stories of a formal wing. On the west end, the Supreme Court is located on the top floor, with the Court of Appeals on the floor below.

Scope Summary

In association with KMD (Kaplan/McLaughlin/Diaz). DLR Group served as prime architect, in addition to providing structural and civil engineering. Kaplan/McLaughlin/Diaz was the conceptual design architect.

Client
State of Iowa

Size
123,800 SF

Awards
2002-2003 Justice Facilities Review
*Citation, AIA/CAJ
2003 AIA Iowa Excellence in Design Award
2003 Best New Building - Best of Des Moines, *Cityview Magazine*
Retrospective of Courthouse Design Selection, 1991-2001, AIA/National Center for State Courts



Wayne L. Morse Federal Courthouse | Eugene, Oregon

Design Achievement

This award winning facility design is organized around four major building components: the subterranean level, the office component, the court component and the judicial chambers. Each component was designed to accommodate its specific function groups efficiently, maximizing the full opportunity of internal spatial configurations, daylight, functional efficiencies, security, and visual coding and identification.

The court component is organized around a pair of courtrooms per floor (6 courtrooms total) with inmate delivery located between them. Immediately to the east of the courtrooms are the judicial chambers. The chambers are pulled away from the courts to allow natural light into both the courtrooms and the west side of the chamber's bar.

The Courthouse is a LEED™ Gold certified facility, featuring under floor air, radiant slab heating and cooling, certified wood, and a range of other energy and environmental performance-enhancing features.

* In association with Morphosis

Scope Summary

265,000 SF, 6 courtrooms

Client
US General Services Administration

Size
272,274 SF

Awards
Winner, 2006 AIA Design Excellence
Special Recognition Award

Winner, 2004 "Progressive Architecture"
Design Award, Architecture Magazine

LEED™ Gold Certified

"Out of the relationships of a creative and passionate team, with a strong belief on the possibilities of this courthouse, I believe the Eugene expression moves the discussion of what a federal courthouse can and should be forward."

-Hon. Michael Hogan,
Federal Judge



George C. Young US Courthouse and Federal Building Modernization | Orlando, Florida

Design Achievement

Rarely does a team have the chance to transform an existing building into a vibrant work environment, a sustainable facility and a redefined exterior public space. The comprehensive modernization for the George C. Young U.S. Courthouse and Federal Building (GCY) offered this opportunity through an elegantly simple exterior addition in combination with a clarifying interior renovation. This design elevates every design choice to effect sweeping change that is at once expressively dignified, accessibly public and intrinsically secure. Built in the Late Modern style in 1975, the six-story structure was envisioned as an efficient, but dense, 188,260 SF Federal building. With modesty, the new design makes responsible use of public investment while rising to meet architectural respect due to a judicial environment. The project includes high aims for energy-efficiency and sustainable avenues in all building systems, with a goal of LEED Gold.

Scope Summary

As part of the American Recovery and Reinvestment Act (ARRA), this \$47.5 million project consists of comprehensive interior and HVAC renovations to accommodate four new Bankruptcy courtrooms, four new chambers, and Clerk of Court and U.S. Attorneys spaces. The renovation comprises removing all interior walls, ceilings, and HVAC systems down to the concrete structure, including removal of hazardous materials. New exterior elements include the replacement of the existing windows, new roof, wall insulation, and the addition of a new west entry pavilion and stair/elevator tower.

The new entry pavilion and tower stands as the pillar of this design's success. It reorients the building to address the park, it reaches out to the park itself and engages with it as a civic space, and it creates a new, iconic architectural identity for the building in alignment with its existing character. The tower orientation allows the interior renovation to grow from a new, dignified procession through clearly defined and organized spaces.

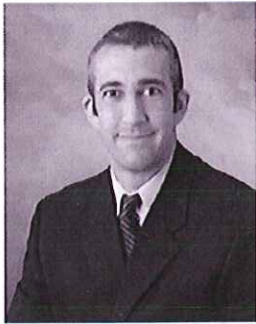
Client

Administrative Office of the Courts

Size

40,352 SF

D. Todd Orr
Senior Associate



Responsibility:
Planning and Design

Education:
Master of Architecture,
University of Florida, 1995

Bachelor of Architecture,
University of Florida, 1991

Design Recognition:

Calaveras County Courthouse; San
Andres, CA *Unbuilt Honor Award for
Design Excellence, Orlando Chapter of
Florida AIA, 2010*

City of Henderson courthouse Expansion;
Las Vegas, NV, *Built Honor Award Design
Excellence, Orlando Chapter of Florida
AIA, 2010*

Alachua County Court Support Services
Building; Gainesville, FL, *Unbuilt/In
process Honor Award, 2009 AIA-Orlando
Chapter Awards*

Sparks Justice Court; Sparks, NV,
*Unbuilt/In Process Merit Award, 2009 AIA-
Orlando Chapter Awards*

South County Courthouse Design; Laguna
Niguel, CA, *Citation award*

Wayne L. Morse Federal Courthouse,
Eugene, OR, *Orlando Chapter of Florida
AIA, 2007, Award of Honor*

Orlando Chapter of Florida AIA, 2006,
Award of Honor, "Best in Show",
Sacramento County Juvenile Courthouse,
Sacramento, CA

Orlando Chapter of Florida AIA, 2006,
Award of Merit, *County of Orange, New
South Courthouse, Laguna Nigel, CA*

Todd's position as senior courts planner and designer for DLR Group is the result of an entire career dedicated to justice architecture. His knowledge of the design criteria associated with this building type and acute attention to detail are an ideal combination to bring our clients' vision to a splendid reality.

Over the past sixteen years, Todd's experience with courthouse projects has touched on all aspects of design and planning at the county, state, and federal level. He has worked with clients to develop space-need programs to verify project scope, assisted in site selection and evaluation, and confirmed project budgets align with desired expectations.

Todd's ultimate passion is courthouse design with a special interest in creating functional and dignified courtroom spaces. This interest drives his hands on approach in the preparation and oversight of courtroom mock-ups. Providing drawings, working with the builder, analyzing sight lines and making appropriate modifications, are all part of designing a successful courtroom. The courtrooms are the heart of the courthouse and it is through careful study and understanding that these spaces evolve.

Professional Experience includes:

New Kings County Courthouse, Hanford, California

The new courthouse will have 12 trial courtrooms with a total building area of 144,460 square feet. A total project budget of \$142.449 million will cover the new courthouse, site improvements and a tunnel connection to the existing jail.

Gwinnett County Courthouse Expansion; GA

Teamed with Pieper, O'Brien Herr Architects from Georgia. Design and Construction Administration Services for an addition to the Gwinnett County Justice and Administration Center \$70,000,000 construction budget

Calaveras County, New San Andres Courthouse; San Andres, CA

This new courthouse for Calaveras County is located on an undeveloped rural site. Located adjacent to a 10 acre parcel designed to house the new county jail, the building is programmed at a little over 40,000 BGSF. The first floor has all court office functions: court operations, family court support, human resources, and court administration.

Yakima County Justice Center, Yakima, WA

The new 130,000 SF building is a replacement facility for the existing county courthouse. Located one block north of the existing jail, the buildings will connect via a bridge for inmate movement. The courthouse will house 14 -16 courtrooms and associated administrative space

United States Courthouse, Eugene, OR

A new 265,000 square foot, \$70 million courthouse. The program includes 7 new courtrooms and support space and is to be located in downtown Eugene, Oregon. In association with Morphosis as Lead Designers.

Orange County Juvenile Justice Center, Orlando, Florida

A new 24,000 s.f. addition to the existing juvenile justice facility. The addition contains (3) new courtrooms and some court support functions. Renovations to the existing building total approximately 4,000 s.f.

Sacramento County Juvenile Courthouse, Sacramento, California

A new 4-story courthouse located adjacent to the existing juvenile detention facility. This 94,000 square foot, \$18 million facility will contain 8 courtrooms and related court support spaces when complete.

Alachua County Courthouse, Gainesville, Florida

A new \$19 million, 124,000 s.f. courthouse with 10 new courtrooms, renovations to the existing 80,000 s.f. courthouse and master plan for growth located in the business district of downtown Gainesville,

Orlando Chapter of Florida AIA, 2006,
Award of Honor, U.S. Courthouse,
Jacksonville, FL

Orlando Chapter of Florida AIA, 2005,
Award for Design Excellence, El Paso
County Courthouse, Colorado Springs, CO

Orlando Chapter of Florida AIA, 2005,
Award for Design Excellence, DLR Group
Orlando Studio, Orlando, FL

**McGraw Hill Southeast #1 Public
Building 2004, Alachua County Criminal
Courthouse, Gainesville, FL**

Florida Chapter of Florida AIA, 2004, *Award
for Design Excellence, Alachua County*
Criminal Courthouse, Gainesville, FL

2004 – 2005 AIA CAJ Justice Facilities
Review, Alachua County Criminal
Courthouse, Gainesville, FL

Orlando Chapter of Florida AIA, 2004,
Award for Design Excellence, Alachua
County Criminal Courthouse, Gainesville, FL

51st Annual P/A Awards, Citation,
Architecture, January 2004, U.S. Federal
Courthouse, Eugene, OR

Precast Institute 49th Annual Convention
Featured Speaker, 2003
4th (2001), 3rd (1998) and 2nd (1995)
International Courthouse Design Conference
Featured Speaker

Orlando Chapter of the American Institute of
Architects, *Unbuilt Award,* 2002
Sacramento County Juvenile Courthouse

Crawford County Judicial Center, Pittsburgh, Kansas

A 28,000 s.f. adaptive reuse project. The existing building, totaling 15,000 square feet, contains two courtrooms, judicial chambers, and the District Court Clerk. A 13,000 square foot addition housing Court Services, Law Library, Jury Assembly and Hearing room.

U.S. Federal Courthouse / U.S.P.S., Fergus Falls, MN

Renovation and housing of a 3-story 28,000 square foot historic courthouse / post office in Fergus Falls, Minnesota.

United States Courthouse, Jacksonville, FL*

A 15-story courthouse located in downtown Jacksonville. This 420,000 square foot, \$65 million facility contains 17 courtrooms, judicial chambers and related ancillary services.

United States Courthouse and Federal Building, Ft. Pierce, FL*

The 83,000 square foot design criteria package. This \$12 million courthouse is located in the downtown district of Ft. Pierce on the corner of US 1 and Orange Avenue.

Other Courts Experience:

- El Paso County Courthouse Expansion, Colorado Springs, CO
- Highlands County Courthouse, Sebring, Florida
- County of Orange, South Court Facility, Laguna Nigel, CA
- 1st District Court of Appeals Annex, Jacksonville, Florida
- New Castle County Courthouse, Wilmington, Delaware*
- Osceola County Government Center, Kissimmee, Florida*
- Howard H. Baker, Jr. Courthouse, Knoxville, Tennessee*
- Sarasota County Courthouse, Sarasota, Florida*

* Denotes the personal experience of D. Todd Orr with another firm

Ted Halsey, AIA, LEED AP



Ted offers 30 years of national and international architectural experience specializing in award-winning design for justice, government, corporate and commercial facilities. As a design leader and project manager, Ted helps clients achieve their mission and ideas through design excellence in architecture, interiors, planning and programming for new construction, renovations and needs assessments on historic restorations of public spaces.

Notably accomplished in the design of complex master planned projects, Ted has been responsible for the success of many federal, state, non-profit and Fortune 500 corporate and research headquarters. Ted also offers high-performance building design and environmental stewardship through LEED standards.

Responsibility:
Planning and Design

Education:
Bachelor of Architecture, University of Kentucky

Awards/Recognitions:
Alfred A. Arraj US Courthouse – 2009 BOMA Office Building of the year; 2005 World sustainable Building Conference; 2003 AIA Denver Citation Award

Adams County Justice Center – 1998 Citation Award; Daniel Moynihan U.S. Courthouse – 1997 AIA NY Citation, New Courthouse in Historic Context; 1996 GSA Design Excellence Award

Affiliation:
American Institute of Architects
President, Denver Architectural Foundation
National Association of Court Managers

Professional Experience includes:
Adams County District Attorney Office + Probation Building*
Brighton, CO

Adams County Justice Center Phase I & II*
Brighton, CO

Alfred A. Arraj US Courthouse*
Denver, CO

Byron Rogers US Courthouse Master Plan*
Denver, CO

Daniel Patrick Moynihan US Courthouse*
New York, NY

Littleton Municipal Courthouse*
Littleton, CO

Natrona County Courthouse*
Casper, WY

New Jersey State House Annex*
Trenton, NJ

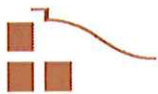
Pueblo County Judicial Building
Pueblo, CO

Richmond United States Courthouse*
Richmond, VA

Routt County Justice Center*
Steamboat Springs, CO

Other Experience:
CSU, Biochemistry Biology Building Fort Collins, CO*
Salvation Army Crestmont College, Rancho Palos Verdes, CA*
Ciba-Geigy Pharmaceutical Production Facility, Suffern, NY*
Eli Lilly Central Research Laboratory, Indianapolis, IN*
Eli Lilly Canada, Dry Products Building, Toronto, ON*

* Denotes the personal experience of Ted Halsey with another firm



THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil Engineering and Landscape Architecture Services

Background

Founded:

THORSON BAKER & Associates, Inc. (TBA) was founded in 1993 to provide engineering consultation and design services for the building construction industry. TBA offers structural, mechanical, electrical and technology engineering design services nationwide with professional registration in forty-nine States, the District of Columbia, Alberta Canada, and Puerto Rico. Civil engineering and Landscape Architecture services are offered throughout the Midwest.

Principals:

Michael G. Thorson, PE, LEED AP	Gordon R. Baker, PE, LEED AP
Jeffrey M. Zunt, PE, LEED AP	Jeffery D. Miterko, PE, LEED AP
David L. Nemeth, PE, LEED AP	Michael N. Stamas, ASLA, RLA, LEED AP
Dennis P. Maille, PE, LEED AP	Guy R. Hicks, PE, LEED AP
Donald J. Schehl, PE, LEED AP	

Location:

www.thorsonbaker.com

3030 W. Streetsboro Rd. Richfield, Ohio 44286 330.659.6688	2055 Reading Rd. #280 Cincinnati, Ohio 45202 513.579.8200	525 Metro Place North, #440 Columbus, Ohio 43017 614.389.3144
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Registration:

49 States, District of Columbia, Puerto Rico, and Canada

Standards:

Attentive Service • Creative Solutions • Attention to Detail
Economy of Design within the project schedule and parameters
Thorough and Comprehensive Construction Documents
Coordination between disciplines

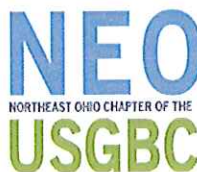
CAD & Revit Standards:

TBA is fully automated offering computer aided drafting (CAD) capabilities on all projects utilizing AutoCAD 2006 through 2009, Revit Structural 2010 and 2011, and Revit MEP 2010 and 2011 to be compatible with other team members.

Current Staff of 101:

23 TBA staff members have achieved the distinction of LEED® Accredited Professional (*Leadership in Energy & Environmental Design*). TBA's accredited staff takes a leadership role in coordinating the engineering design team with the architectural design intent of projects pursuing LEED® certification or incorporating sustainable design features.

- 26 Registered Professional Engineers
- 2 Landscape Architects
- 1 Registered Communications Distribution Designer (RCDD)
- 2 Technology Designers
- 21 Graduate Engineers & Engineering Interns (EI)
- 14 S/M/E Engineering Designers
- 8 Revit Technicians
- 2 CAD Managers
- 18 CAD Operators
- 1 Systems Specialist
- 6 Administrative



THE PLAIN DEALER





THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil and Landscape Architecture Services

Historic Restoration



*Clarendon Hotel
St. Clairsville, OH*



*Franklin Boulevard Urban Loft Housing
Cleveland, OH*



Hope Academy Steeple Renovation

Baldwin Wallace College, Berea, OH

Conservatory of Music Renovation and Expansion

Renovation of the existing Merner-Pfeiffer Hall and the historic Berea Congregational UCC Church, and the addition of a two-story 15,000 SF link between. Renovation to the existing circa 1872 church building includes the 5,500 SF addition of a second floor over an existing church addition. Site improvements include a new entry plaza with terrace seating and the design of underground utilities for the building addition and the existing buildings.

Bricknell Mansion Renovation, University Heights, OH

As-built drawings were created for areas uncovered during renovation including roof framing, 3rd floor framing, and a portion of 2nd floor framing for this three-story 28,000 SF circa 1900 mansion for the Judson Park Retirement Community.

Chagrin Falls Town Hall Renovation, Chagrin Falls, OH

Structural evaluation of this 1848 building and the 1875 addition.

Clarendon Hotel Restoration, St. Clairsville, OH

Renovation of the 9,100 SF four-story historic 1890 building for future use as offices or hotel. Structural renovations included foundation repairs and a new elevator and stair. Site improvements included a garden space and drop-off area, and new utilities.

Franklin Boulevard Urban Loft Housing, Cleveland, OH

The adaptive reuse of this circa 1920's office and warehouse facility included renovation and restoration of the three-level 21,600 SF building to two-story loft condominium units. Scope included exterior renovation and masonry repair, one new interior stair, and a 2,500 SF two-story addition.

Henry Ford Estate, University of Michigan - Dearborn, MI

Structural, mechanical and electrical engineering assessments of the historic 56-room Henry Ford residence (circa 1915), powerhouse and potting shed to identify repairs requiring immediate attention, deferred maintenance, long-term concerns and proposed remediation.

Hope Academy Broadway Campus, Cleveland, OH

Scope included construction documents illustrating repair requirements to existing historical bell tower to meet city building and historical landmark requirements while providing a sound yet economical design.

Kirtland Schoolhouse, Kirtland, OH

Mechanical engineering services for a new furnace, air conditioning unit, and sprinkler system for this historic reconstruction built on a similar footprint of the original 1819 structure that once stood on the site. Historic documents describing the original building were used for this 700 SF replica.

THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil and Landscape Architecture Services

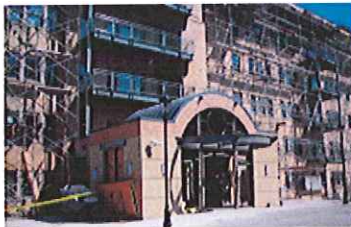
Historic Restoration



Historic McCook House, Carrollton, OH
Listed on the National Register of Historic Sites



Park Lane Villa and Lofts - Restoration Complete
Cleveland, OH



Park Lane Villa and Lofts - During Construction



Existing Conditions of Park Lane Villa and Lofts
- abandoned, deteriorated and vandalized

Levi Hartong House and Farm, Green, OH

Structural, mechanical and electrical assessment, recommendations, and opinion of probable cost to bring the circa 1883 historic facility up to code for public use.

McCook House Restoration, Carrollton, OH

Ohio Historical Society - *Listed on the National Register of Historic Sites*

Structural assessment and documentation of this 1837 house was followed by construction documents to repair foundation walls, masonry, lintels and water infiltration.

Mercer Commons, Cincinnati, OH

\$51,000,000 neighborhood development includes 132 rental units and 10,000 SF of first level retail space. The development includes renovation of 20 buildings to accommodate one and two-bedroom apartments, 15 new apartment and town house buildings, and a 371-car 4½-story 137,000 SF open-air parking structure. State of Ohio historic tax credits were granted to restore the historic buildings that are part of this project.

Mississippi State University EE Cooley Building Rehabilitation, Starkville, MS

The EE Cooley Building was built as a cotton mill circa 1902 and is listed on the National Register of Historic Places. The building has been serving as a service and administrative building for Mississippi State University since the 1960's. TBA is providing structural, mechanical and electrical engineering services for the current rehabilitation into an 80,000 SF conference center and 35,000 SF of office space. Designed within the restraints of the National Register, restoration includes brick masonry, wood and steel windows, heavy timber post and beam framing, and wood flooring. New mechanical, electrical and fire protection systems are creatively and sensitively integrated into the existing historic structure. A 20,000 SF addition is being constructed to serve as a Grand Ballroom and pre-function concourses for the conference center.

One West Exchange, Akron, OH

Renovation of existing three-story 75,000 SF downtown Akron circa 1900 building adding new stair/elevator tower, windows, recessed entry and main lobby entry.

Park Lane Villa and Lofts Cleveland, OH

TBA performed a structural assessment of this abandoned, deteriorated and vandalized historic six-story 174,000 SF structure prior to restoration and rehabilitation. Historic renovation of the circa 1922 residential hotel converted the building into upscale high-technology sustainable housing. Additions included a new two-level 61,000 SF parking deck and a new four-story 21,000 SF townhouse building with parking beneath and partial mezzanine.

THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil and Landscape Architecture Services

Historic Restoration



YMCA, Steubenville, OH
Existing Conditions

Richard Howe House Historic Restoration, Akron, OH

Civil and structural engineering, and landscape architecture services for the relocation of the historic Richard Howe House to a new site next to the Ohio & Erie Canal and Towpath Trail. This facility now serves as a visitor information center for the Ohio & Erie National Heritage Canalway, a meeting center, and as offices for the Ohio & Erie Canalway Coalition. Project scope included:

- Assessment and documentation of existing structure.

- Selective demolition for existing location.

- Design of grading & temporary ramp at Ohio Canal to access building pad.

- Reinforcement for relocation to new site.

- Review of existing bridges (2 places) to be traversed during relocation.

- Preparation of new pad and foundation for house at the Ohio Canal site.

Renovation, rehabilitation and restoration of existing structure included restructuring the super structure, lowering the existing floor, assessing the existing structural compliance with current codes, and reinforcing the structure where required.

Tallmadge Church, Tallmadge, OH

Ohio Historical Society

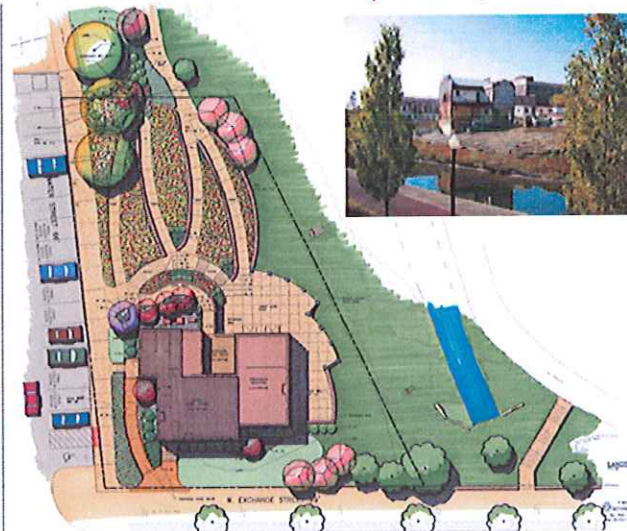
TBA provided HVAC and electrical improvements of this historic 1825 structure for efficiency and climate control to benefit occupants, visitors, and the display of artifacts. Improvements were provided with minimal visual intrusion of the historic character of the building.

WOIO in Cincinnati, OH

Renovation of circa 1900 building for TV station including new openings and removal of mezzanine.

YMCA Elderly Housing, Steubenville, OH

Conversion of the four-story 39,000 SF circa 1900 YMCA building for elderly housing.





THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, and Civil Engineering Services

Representative Feasibility Studies, Assessments, and Building Evaluations

THORSON BAKER & Associates, Inc. has performed planning and feasibility studies, assessments, building evaluations, MEP and structural systems analysis, opinion of cost, site inventory and site analysis services for hundreds of educational, commercial, governmental, and public projects.

Existing facility assessments of major infrastructure, interior systems, MEP utility systems and building systems include but are not limited to evaluations of:

- plumbing
- medical gases
- heating
- air conditioning
- ventilation
- electrical
- interior & exterior lighting
- security
- ADA access
- technology
- structural
- building facade
- exterior walls
- screen walls
- loading dock areas
- parking garages

Akron Board of Education, Akron, OH

Guy Hicks, PE, LEED AP, joined **THORSON BAKER & Associates, Inc.** in April 2008 as a Principal in the Mechanical Engineering Department after 17 years as Principal and Owner of Keyser/Hicks Engineering, Inc. *While with his former firm*, Guy provided mechanical engineering services to the Akron Board of Education for system designs and facility studies of 64 school buildings, including boiler replacements, condensing unit replacements, rooftop unit replacements, reduced backflow preventers, learning resource centers' additions and multipurpose room additions.

Baldwin Wallace College

Mechanical and electrical condition assessment of Merner-Pfeiffer Hall & Kulas Musical Arts Building.

Bay Village School District, Bay Village, OH

The MEP and technology assessment of 5 school buildings included condition assessments and recommendations regarding the HVAC system design and operation, life safety, building envelop, site conditions, accessibility, plumbing and fixtures, sewage system, water supply, electrical systems, fire alarm, interior lighting, emergency/egress lighting, security systems, foundations, walls and chimneys, and floor and roof structures.

Case Western Reserve University

Mechanical & Electrical Building Equipment Study

Mechanical and electrical engineering study of building equipment for eight buildings: Allen Memorial Medical Library, AW Smith, Bio-Enterprise, Guilford House, Haydn, Morley, Pathology, and Tomlinson.

Kent State University Student Center Addition & Renovations, Kent, OH

The facility assessment, master planning and programming for a phased, full rehabilitation of the 281,000 SF existing student center developed a 4-phase construction strategy. Phases include: addition of a three-level 7,400 SF storage space and renovation of the student dining area; site work associated with the north parking field; north entrance addition of an enclosed 1,500 SF receiving area, 4,000 SF of second floor plaza, concrete stairs and 1,300 SF of canopy roof at third level; and structural review of new stage overbuild and support for operable partition at the balcony.

Kent State University Taylor Hall Plaza Study

The KSU Plaza Study was conducted to determine the capacity of the plaza to support landscaping and if this could be achieved without water penetration. Plaza occupancy load capacity was evaluated and a summary report was provided with general recommendation on how to reinforce the existing structure if necessary.

THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, and Civil Engineering Services

Representative Feasibility Studies, Assessments, and Building Evaluations

Oberlin College

Athletic Training Facility - Practical and financial feasibility analysis of various options for interim athletic training facilities during construction of a new facility.

Carnegie Building - Administrative building MEP renovations.

Jazz Program Expansion Study

Conversion of Hales Gymnasium

Feasibility study to convert pool building into studio space for the college jazz program.

New Building

Feasibility study for new two-story 15,000 SF building for the college jazz program.

Severance Hall - Feasibility study and building evaluation followed by computer room and lobby MEP renovations.

Oriana House Glenwood Jail Facility, Akron, OH

Mechanical, electrical and plumbing assessment of heating and cooling systems for a 45,000 SF building with multiple additions of various ages. The assessment included evaluation of HVAC, gas and electrical loads and requirements and provided 6 options for improvements.

Pinnacle Condominiums, Cleveland, OH

Mechanical and electrical condition assessment with recommendations and opinion of probable cost to correct HVAC issues.

Southwest General Hospital.

While with a former firm, Guy Hicks performed a "Long Range Plan of Mechanical Utilities". This detailed assessment included prioritization and estimates of repair for the steam plant, chilled water plant, sanitary and stormwater systems, domestic water, fire service, medical air, medical vacuum, medical gases and house compressed air.

University of Akron

E. J. Thomas Hall - Feasibility study to add two-story restaurant/catering facility to existing two story parking structure.

Parking Deck Energy Saving Assessments - Electrical assessments of four campus parking deck facilities defined infrastructure modifications necessary to allow for the proper installation of energy saving electrical units.

Mechanical System Upgrades - Guy Hicks provided mechanical system design or upgrades for numerous facilities including research laboratories at the University of Akron *while Principal of Keyser Hicks Engineering*. He also provided mechanical engineering services for the University of Akron Campus HT/HP (high temperature/high pressure) water line replacement.



THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil and Landscape Architecture Services

Courthouse and County/Municipal Administration Projects



Willoughby Municipal Courthouse
Willoughby, OH

THORSON BAKER & Associates, Inc. (TBA) has extensive governmental project experience including significant projects for numerous municipalities, townships, counties, the Veterans Administration, US Postal Service, and NASA. Representative projects include:

Ashland County Maintenance Facility, Ashland, OH
26,000 SF administration and vehicle service and storage facility.

Cobb County New Superior Courthouse Clock Tower, Marietta, GA
Structural engineering services for the clock tower.

Cuyahoga Hills Boys School, Highland Hills, OH
Ohio Department of Youth Services
Two-story 25,000 SF visitation and classroom addition.

Defiance Municipal Courthouse, Defiance, OH
One-story 17,000 SF stand-alone courthouse.

East Palestine Municipal Building, East Palestine, OH
Renovation of an existing three-story 27,700 SF school building to convert to a Municipal Office Building.

Green Municipal Administration Building, Green, OH
Three-level 35,000 SF city administration building with an 11,000 SF addition for Board of Education offices.

Madison Courthouse, London, OH
Technology design for a new one-story 27,000 SF courthouse.

Medina Human Services, Medina, OH
Three-story 30,000 SF administration building.

Monroe County Courthouse Roof Analysis, Bloomington, IN
Structural and mechanical engineering analysis of roof drainage and wind uplift.

Munroe Falls Municipal Building, Munroe Falls, OH
Two-story 20,000 SF addition to house Police Department, Fire Department and related Administrative offices.

Portage County Courthouse Renovation, Ravenna, OH
25,000 SF major renovation of existing three-story building with a 9,000 SF addition. A subsequent project included mechanical and electrical engineering for a 1,200 SF fit-out of shell space on the second floor.

THORSON BAKER & Associates, Inc.

Structural, Mechanical, Electrical, Technology, Civil and Landscape Architecture Services

Courthouse and County/Municipal Administration Projects



Quincy Place

Portage County Law Library, Ravenna, OH

Conversion of open area parking deck beneath 2-story building into a 6,000 SF law library.

Portage/Geauga Juvenile Detention Center Expansion, Ravenna, OH

One-story cellblock, dining hall, gymnasium, administrative offices and classrooms addition.

Quincy Place, Cleveland, OH

Four-story multi-tenant 80,000 SF Cuyahoga County office building to house the Central, Fairfax and Kinsman Neighborhood Family Service Center.

Summit County Building Assessment Program, Akron, OH

Assessment of six county buildings including the County Courthouse, Environmental Services, Safety Building, and Main Library. Assessments identified expansion/renovation feasibility and existing building maintenance issues and estimates of cost.

Trumbull County Job and Family Services, Warren, OH

Structural renovation of a three-story building included infill of four stair openings and additions of new stair openings to serve the 1st, 2nd and 3rd levels.

Wadsworth Municipal Complex Wadsworth, OH

Three-story 70,000 SF municipal building to house the Police Department, Council Chambers and related Administrative offices.

Willoughby Municipal Courthouse, Willoughby, OH

Two-story 30,000 SF courthouse with basement.



Portage County Courthouse Renovation



GUY R. HICKS, PE, LEED AP
PRINCIPAL
MECHANICAL DEPARTMENT HEAD

Registered Engineer:
25 States
27 Years Experience
Firm Principal
Mechanical Design
Project Management
LEED Accredited Professional

Education:

Guy joined **THORSON BAKER & Associates, Inc.** in April 2008 as a Principal in the Mechanical Engineering Department after 17 years as Principal and Owner of Keyser/Hicks Engineering, Inc. His knowledge of the building industry is enhanced by nine years of construction experience prior to 27 years of engineering and design experience, an invaluable background when providing construction administration/observation services. His impressive portfolio includes the design of HVAC, plumbing, fire protection and energy management systems for institutional and educational buildings.

Bachelor of Science/Mechanical Engineering, University of Akron

Professional Registration:

Ohio Registered Professional Engineer and 24 additional States

Representative
Building Facility Assessments
& Public Projects
by Guy Hicks while with
Keyser/Hicks Engineering:

Akron Board of Education

While with his former firm, Guy provided mechanical system designs and studies for Akron Board of Education buildings for 20 years, including boiler replacements, condensing unit replacements, rooftop unit replacements, reduced backflow preventers, facility studies, learning resource centers' additions and multipurpose room additions.

Akron Public Schools Administration Facilities:

Administration Building
Maintenance Building
Ott Building
Transportation
Warehouse

Akron Metropolitan Housing Authority Office Building, Akron, Ohio

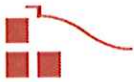
Fire Stations

City of Orrville
Granger Township
North Lawrence
Willard

Southwest General Hospital, Berea, OH
Long Range Plan of Mechanical Utilities

This detailed facilities assessment included prioritization and estimates of repair for the steam plant, chilled water plant, sanitary and stormwater systems, domestic water, fire service, medical air, medical vacuum, medical gases and house compressed air.

Wayne County Courthouse, Wooster, Ohio



RICHARD C. PROPPE, PE, LEED AP
SENIOR PROJECT MANAGER
MECHANICAL

Richard joined **THORSON BAKER & Associates, Inc. (TBA)** in 2011 as a Senior Project Manager in the Mechanical Engineering Department. His 27 years of mechanical engineering experience includes the design of HVAC and plumbing systems, electrical and sprinkler system condition surveys, system and facilities evaluation and planning, design and specification writing and information technology support.

His experience *with a former firm* included seven years as manager or director of engineering with responsibilities of staff training for REVIT Parametric Modeling and Trace Building Energy and cost-op analysis.

Education:

Bachelor of Science, Mechanical Engineering, Cleveland State University
Graduate Studies, Masters Level Courses, Mechanical Engineering
Cleveland State University
ASME, Cuyahoga Community College

Professional Registration:

Registered Professional Engineer, State of Ohio and 48 additional States, and the District of Columbia

**Representative
Federal, State and Local
Government Facilities
while with a former firm:**

General Electric Aviation JAFAN SPO - Relocation project.
March Air Force Base, Riverside CA - Facilities automation.
NASA Glen (Lewis) Research Center, Brookpark, OH
Laboratory ventilation, wind tunnel central plant, computer center refrigeration.
National Naval Medical Center, Bethesda, MD - Plumbing engineering.

US Postal Service, Martins Ferry, OH - HVAC renovations.
US Postal Services, Youngstown, OH - HVAC renovations.

State of West Virginia, Martins Ferry, WV
Offices of WV Department of Health and Human Services

Pickaway Correctional, Orient, OH
\$18,000,000 segregation medical facility.
Trumbull Correctional, Leavittsburg, OH
\$450,000 HVAC and boiler replacement.

Governmental facilities assessment, planning, MEP Engineering and Construction Management for the following counties and municipalities:
Summit County, OH offices
Summit County Medical Examiner's offices
Knox County, OH offices
City of Akron, OH offices
City of Mt. Vernon, OH City Hall
Richfield Township, OH Township Administrative Offices
City of Macedonia, OH Services Building
Carlton County, MI Services Building



JEFFERY D. MITERKO, PE, LEED AP
PRINCIPAL
ELECTRICAL DEPARTMENT HEAD

Registered Engineer:
49 States
23 Years of Experience
Firm principal
Electrical Design
Project Management
LEED Accredited Professional

Education:

Jeff joined **THORSON BAKER & Associates, Inc. (TBA)** in February 1997. He is responsible for the management of our electrical department including development and implementation of department standards. Jeff provides engineering design support for our project managers, project engineers, and designers. He is also responsible for quality control, and supervises the preparation of construction documents. He is very sensitive to economy of construction due to his extensive retail experience and working relationships with developers and construction managers.

Bachelor of Science, Electrical Engineering, University of Akron, 1987

Professional Registration:

Registered Professional Engineer, State of Ohio and forty-eight additional States, the District of Columbia, and Puerto Rico

Representative
Building Facility Assessments
& Governmental
Project Experience:

Baldwin Wallace College

Mechanical and electrical condition assessment of Merner-Pfeiffer Hall & Kulas Musical Arts Building.

Bay Village School District, Bay Village, OH

The MEP and technology assessment of 5 school buildings included condition assessments and recommendations regarding the HVAC system design and operation, life safety, building envelop, site conditions, accessibility, plumbing and fixtures, sewage system, water supply, electrical systems, fire alarm, interior lighting, emergency/egress lighting, security systems, foundations, walls and chimneys, and floor and roof structures.

Oriana House Glenwood Jail Facility, Akron, OH

Electrical assessment of a 45,000 SF building with multiple additions of various ages. The assessment included evaluation of HVAC, gas and electrical loads and requirements and provided 6 options for improvements.

University School, Hunting Valley, OH

Upper Campus & Lower Campus Electric Utility Cost Evaluation

The evaluations were performed to assist the owner in allocating costs and to identify potential energy saving upgrades.

The Ohio Center, Youngstown, OH

Four-story 82,500 SF State of Ohio office building.

Portage County Courthouse Renovation, Ravenna, OH

25,000 SF major renovation of existing three-story building with a 9,000 SF addition.

Quincy Place, Cleveland, OH

Four-story multi-tenant 80,000 SF Cuyahoga County office building.



BARBER & HOFFMAN, INC.
Consulting Engineers

Firm Overview

HISTORY

Barber & Hoffman, Inc. is a premier structural engineering consulting firm serving the Midwest and mid-Atlantic states. We have been providing structural engineering expertise since C. Merrill Barber founded the firm in 1934 in Cleveland, Ohio. In 1998, the firm opened an office in the Pittsburgh area and in 2009, an office in Columbus, Ohio.

During Mr. Barber's distinguished career as a design professional, together with his partners and successors, many impressive landmarks in the public and private sectors have been created. Most notable are: Cleveland Museum of Art, Cleveland Botanical Gardens, Severance Hall (designed by Mr. Barber early in his career), the Great Lakes Science Center, the Cleveland Federal Office Building, Cleveland State University Library Tower, the Cleveland Convention Center, and Cuyahoga Community College Metro Campus just to name a few. Mr. Barber's dedication to innovative yet cost-effective design philosophy is still the company's hallmark today.

Today, our Cleveland office continues to work at some of the aforementioned project locations, also adding major health care clients such as the Cleveland Clinic Foundation, University Hospitals Health System, Summa Health Care System, along with other institutions such as Case Western Reserve University, John Carroll University, and Cleveland State University. Our Pittsburgh office has provided services for major institutions in the western Pennsylvania area such as: the University of Pittsburgh Medical Center, Duquesne University, the University of Pittsburgh, Carnegie Mellon University, and Pennsylvania State University. Our client retention speaks volumes to the service we provide.

EXPERIENCE

We serve design and construction professionals, medical and educational institutions, building owners and managers, government agencies, contractors, fabricators, developers, and others. Our firm is rich with a versatile staff of registered Professional Engineers, EITs, and technicians. We possess decades of experience coupled with the knowledge of the latest design techniques, structural engineering modeling, materials technology, and cost-effective planning to produce a wide range of interesting and efficient buildings and structures.

Each project is managed by a Principal who brings together knowledge, coordination, and integration of special skills needed for completion. The daily interplay among the staff encourages creative solutions while eliminating costly research in design challenges. This approach has retained many of our valued clients.

We utilize integrated computer modeling with associated tools for analysis and design. We are proficient in utilizing AutoCAD and Building Information Modeling (BIM) for design and drafting.

SUMMARY:

- Structural Consultants
- Founded in 1934
- 3 Office Locations
- 5 Principals
- 26 Engineers (18 Registered)
- 6 Technicians

STATE REGISTRATIONS:

- Arizona
- Colorado
- Connecticut
- District of Columbia
- Indiana
- Kentucky
- Maryland
- Michigan
- Minnesota
- New York
- Ohio
- Pennsylvania
- Virginia
- West Virginia

CAPABILITIES:

- Parking Garages
- Restoration
- Forensic
- New Structures
- Existing Structures
- Building Assessments
- Facades

MARKET AREAS:

- Healthcare
- Education
- Commercial
- Institutional
- Housing
- Public Sector
- Private Sector
- Design-Build

1100 West 9th Street	Cleveland, OH 44113	P 216.875.0100	F 216.875.0111
8720 Orion Place	Columbus, OH 43240	P 614.825.9580	F 614.825.9581
215 Executive Drive	Cranberry Twp., PA 16066	P 724.741.0848	F 724.741.0849

www.barberhoffman.com



BARBER & HOFFMAN, INC.
Consulting Engineers

Historical Preservation Experience

Howard M. Metzenbaum Federal Building and U.S. Courthouse	Cleveland, OH
Terminal Tower Facade Restoration	Cleveland, OH
Lorain County Transportation Building - Exterior Masonry Repairs	Elyria, OH
Cleveland Museum of Art - Exterior Renovation	Cleveland, OH
Al. Ringling Theater - Renovation and Facade Restoration	Baraboo, WI
Wooster College Severance Art Building Renovation and New Addition	Wooster, OH
Trumbull County Courthouse Renovation	Warren, OH
Oberlin College - Peters Hall Renovation - Gutting of Interior Spaces and Rebuilding to New Design Requirements	Oberlin, OH
Baldwin-Wallace Wheeler Hall Renovation - Gutting of Interior Spaces and Rebuilding to New Design Requirements	Berea, OH
President James A. Garfield House - Structural Reinforcing and Historical Restoration Carriage House Converted to Visitors' Center Historical Restoration	Mentor, OH
Case Western Reserve University Adelbert Hall - Reconstruction and Addition of Interior Floors within a completely Fire-Gutted Historical Building	Cleveland, OH
Baldwin-Wallace College - Dietsch Hall Remodeling - Gutting of Interior Spaces and Rebuilding to new Design Requirements	Berea, OH
M-K Ferguson Plaza (Tower City) - Conversion of Historical Post Office Building to an Office Building and Plaza Addition of Interior Floor	Cleveland, OH
Baldwin-Wallace College - Marting Hall Renovations - Gutting of Interior Spaces and Rebuilding to New Design Requirements	Berea, OH
State, Palace, and Ohio Theaters Renovations	Cleveland, OH

1100 West 9th Street	Cleveland, OH 44113	P 216.875.0100	F 216.875.0111
8720 Orion Place	Columbus, OH 43240	P 614.825.9580	F 614.825.9581
215 Executive Drive	Cranberry Twp., PA 16066	P 724.741.0848	F 724.741.0849

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BARBER & HOFFMAN, INC.
Consulting Engineers

Facade Restoration and Repair Projects

Rockwell Building Historic Preservation	Cleveland, OH
Schofield Building Historic Preservation	Cleveland, OH
Springfield Towers	Springfield, OH
Terminal Tower	Cleveland, OH
B. F. Keith Building	Cleveland, OH
Cuyahoga County Coroner's Office Building	Cleveland, OH
Federal Reserve Bank of Cleveland	Cleveland, OH
Huntington Building	Cleveland, OH
Kent State University White Hall - Exterior Wall Repairs	Kent, OH
Lorain Metro Housing Authority:	Lorain, OH
Kennedy Plaza	
Riverview Plaza	
Pittsburgh Produce Terminal Brick Pier Restoration	Pittsburgh, PA
St. Augustine Manor	Cleveland, OH
United Way of Greater Cleveland	Cleveland, OH
Leader Building	Cleveland, OH
Bedford High School	Bedford, OH
Envoy Condominiums	Lakewood, OH
St. Augustine Manor	Cleveland, OH



BARBER & HOFFMAN, INC.
Consulting Engineers

Facility Assessments/Condition Surveys

St. John Medical Center - Existing Buildings Assessment
St. John Medical Center - Assessment of the 2009 Strategic Master Plan
P.E.A.C.E. Project - Condition Survey/Building Renovation
Ritter Public Library - Structural Condition Survey
Skyline Corporation - Wind Damage Assessment of Existing Building
OfficeMax Headquarters Building Condition Survey
Community Health Partners - Lorain Facility Master Plan
Cleveland Metropolitan School District - Warm, Safe, and Dry Assessment at various schools
Cleveland Metropolitan School District - Watterson-Lake Elementary School - Closed Building
Cleveland Metropolitan School District - Structural Condition Survey at Six Schools
Duquesne University:
 Brottier Hall Entrance Slab Assessment
 Laval House Condition Assessment
 Vitti Building Preliminary Condition Assessment
 Trinity Hall Masonry Facade Assessment
 Gumberg Library Level 4 Plaza Assessment
 Rockwell Hall Basement Level Concrete Beam Assessment
Juniata College:
 Founders Hall Building Assessment
 Ellis Hall Portico Slab Assessment
Kent State University East Liverpool Campus - Main Building Chimney Assessment
Audubon School - Condition Survey of Original 1921 Building
Cleveland Clinic Foundation - W.O. Walker Building
Cleveland Clinic Foundation - Corporate Ninety Office Building
Cleveland Clinic Foundation - Fairhill Parking Garage
Cleveland Metropolitan Housing Authority - Willson Estates Structural Condition Assessment
Cuttings Dynamics Condition Survey
Cuyahoga County Planning Commission - Truman Building Survey
Fairview Hospital - Garage and Medical Office Building Condition Survey
Fawcett Stadium - North and South Grandstands Survey
George Westinghouse Research & Technology Park - Structural Condition Assessment
Kaiser Fairhill Hospital - Condition Survey
Lorain Metropolitan Housing Authority - Kennedy and Riverview Plaza Condition Survey
Maple Heights Board of Education - Athletic Complex Natatorium Roof Survey
Mellett Building - Structural Condition Survey
McClymonds Building - Structural Condition Survey
Rockwell Automated Building - Structural Condition Survey
Standard Building - Facade Condition Survey
University Hospitals Health System - Due Diligence/Structural Condition Surveys at various Locations
WEWS - East 30th Street Building Condition Survey

1100 West 9th Street	Cleveland, OH 44113	P 216.875.0100	F 216.875.0111
8720 Orion Place	Columbus, OH 43240	P 614.825.9580	F 614.825.9581
215 Executive Drive	Cranberry Twp., PA 16066	P 724.741.0848	F 724.741.0849

www.barberhoffman.com



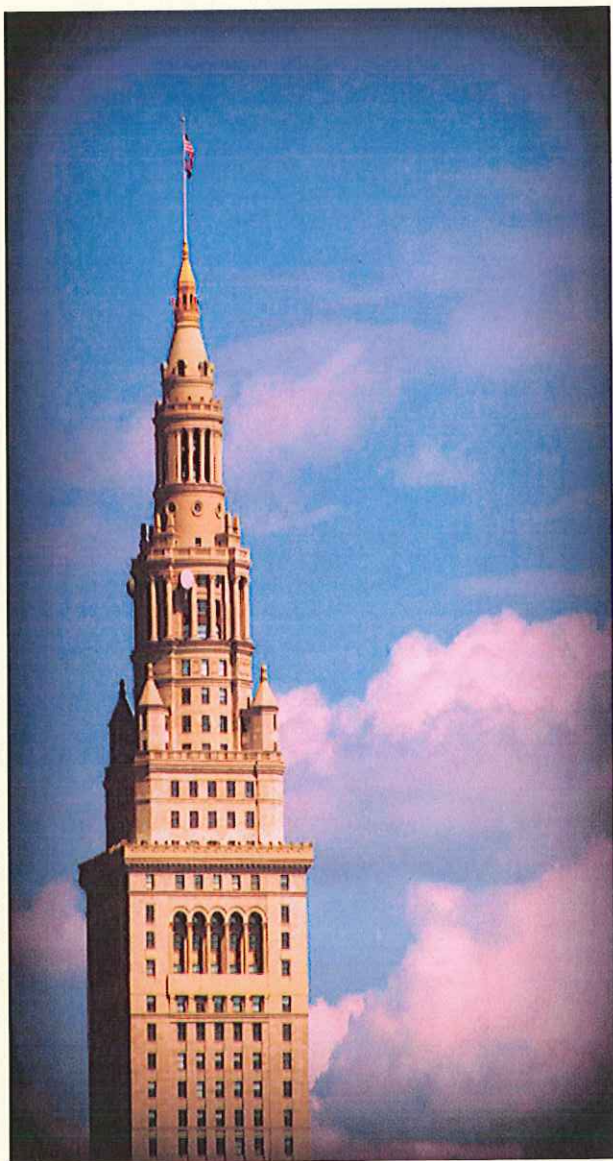
BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Terminal Tower Facade Restoration

YEAR
COMPLETED
2009

Cleveland, OH
\$21.0M



The Terminal Tower is a landmark of Cleveland's skyline. It is part of a multi-use complex incorporating transportation, office, retail, and hotel functions. Constructed between 1925 and 1930, the 52-story structure rises 708 feet above Public Square. The Terminal Tower is a steel-framed structure clad in facades of ornamental iron, limestone, and terra-cotta masonry. Observations have been conducted from a variety of platforms, including pipe scaffolding, platform scaffolding, swing-stage scaffolding, and mast climbers. Barber & Hoffman has worked continually to develop repair details for multiple contractors during the multi-phase repair program completed in 2009.

PROJECT DESCRIPTION:

A fully developed five-year restoration plan implemented from 2005 to 2009. Work involved the restoration of the entire facade from the flag pole to the ground. Replacement of the 15th floor cornice was also completed.

ADDITIONAL PROJECT FACTS:

- Maintaining the Ohio Historic Preservation Office standards.
- Replacement of severely spalled and/or deteriorated terra-cotta units.
- Partial replacement of stone units.
- Reconditioning or replacement of corroded steel shelf angles and columns.
- Recommendations on alternate products, various coatings, sealant work, and tuck pointing.
- Removal and replacement of ornamental iron on the cupola.
- 2010 ICRI Award of Excellence.
- 2010 Cleveland Engineering Society Restoration Project of the Year.
- 2010 Cleveland Restoration Society and AIA Cleveland/Akron Chapter Preservation Award.



BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Howard M. Metzenbaum Federal Building

YEAR
COMPLETED
2005

Cleveland, OH
\$51.0M



The Howard M. Metzenbaum Federal Building and U.S. Courthouse, opened in 1910, is a historic five-story, granite-faced courthouse and the original main Cleveland post office building. Originally known as the Old Federal Building and Post Office, the building was renamed in 1998 in honor of U.S. Senator Howard M. Metzenbaum. Following the construction of a separate new Federal Court Building, this facility underwent a complete renovation project to restore public spaces and courtrooms; and, to provide better access and modernize the mechanical systems.

New ADA entrance ramps have been added in the front areaways. Vertical circulation was added and the existing reconfigured, along with modernization of primary mechanical, electrical, and plumbing.

The structure consists of interconnecting (3-dimensional) architecturally exposed structural steel pipe trusses supported by just four new columns. The typical main trusses have an architecturally arched bottom chord with gable shaped top chords. The structure was built within the perimeter roof profile (above the existing lightwell-courtyard) thus creating multiple snow, snowdrift, unbalanced snow and wind loading conditions.

PROJECT DESCRIPTION:

The latest renovation balanced preservation and restoration with the reconfiguration of many of the building's primary components. A five-level central atrium was created by enclosing the original open lightwell. The historic facade, courtrooms, and murals were restored during the renovation.

ADDITIONAL PROJECT FACTS:

- 2006 Preservation Award from the Cleveland Restoration Society.
- 235,000 square feet.
- Listed in the National Register of Historic Places.
- Architectural building style: Beaux Arts - Classical Revival.
- Primary exterior facade material: gray granite.
- The adapted building is LEED certified.





BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Cleveland Institute of Art McCullough Building

YEAR
COMPLETED
2010

Cleveland, OH
\$17.0M



This structure was originally designed by Albert Kahn and constructed in 1913 as a Model T automobile assembly plant for Ford Motor Company until it was vacated in 1932. Various businesses occupied the building until 1981 when it was acquired by the Cleveland Institute of Art. The CIA Joseph McCullough Center for the Visual Arts, as it is now known, is listed on the National Register of Historic Places in Ohio under Criteria C for Industrial architecture.

The renovation is the first part of a \$55 million Campus Modernization and Unification project that will unify the campus into a single building in University Circle. Funding for the Phase I renovation and Phase II addition includes historic tax credits from the National Park Service, New Market Tax Credits, and private donations.

The existing 165,000-square-foot, four-story building is framed with a system of reinforced concrete slabs supported by octagon-shaped concrete columns with drop panels and column capitals. The renovation included a substantial upgrade to the building's mechanical systems such as heating, cooling, electrical and roofing. These upgrades required infilling existing floor openings and creating new floor openings in the reinforced slabs. It also included an interior redesign to in-fill a 7,000-square-foot area on the third floor that was previously a two-story space.

Renovation to the existing facade, which consists of red brick and white terra cotta, was also performed. The facade renovation was performed to restore the building's historic features while adding new the most efficient amount of natural light into the interior of the building.

PROJECT DESCRIPTION:

Renovation of a four-story industrial building. The purpose of the renovation is to reinstate the current school building to historic configuration. The renovation included the support of large rooftop mechanical units for the existing building and future addition, infilling existing floor openings, creating new floor openings, adding an elevator and facade restoration.

ADDITIONAL PROJECT FACTS:

- Listed on the National Register of Historic Places.
- 2011 Preservation Award winner from the Cleveland Restoration Society and the Cleveland/Akron Chapters of the American Institute of Architects.
- Designed to meet Silver LEED certification as awarded by the U.S. Green Building Council.
- Historic tax credit.





BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Rockwell Building Historic Preservation



Cleveland, OH
\$32.0M



PROJECT DESCRIPTION:

Interior and exterior renovation and restoration of an existing seven-story office building for occupancy by a new single tenant, including analysis and assessment of the existing structure and modification of the structure for new construction and loading.

ADDITIONAL PROJECT FACTS:

- Listed on the National Register of Historic Places.
- Stainless steel and glass monumental stair.

The Rockwell Building, located at 1405 East 6th Street in downtown Cleveland, was constructed in the 1910's, as the East Ohio Gas Company Building. The building owner undertook restoration and renovation of the structure for occupancy by a legal firm.

Barber & Hoffman Inc. provided services for both the owner and tenant during the project. The structure is primarily steel-framed with clay tile floor construction. Prior renovations added areas of steel joist framing and precast concrete slab at the second floor. We assessed the structure for new loadings and conducted field surveys to determine the structure where existing drawings were not available. We provided details for infilling existing openings and creating new openings in the clay tile floor structure that were needed throughout the building.

The 1st and 2nd floors were renovated and restored in accordance with historical and architectural considerations, restoring monumental stone columns, monumental windows, and providing a new monumental stair. Columns were added in one area of the building to facilitate removal of existing hangers at the second floor. The basement mezzanine was extended with concrete slab on composite metal deck. The additional loads required the reconstruction of several footings.

New elevators were installed in the building, and were designed with additional service to the sub-basement. This required excavation and installation of an elevator pit that would not conflict with the existing structural elements. The elevator shaft was modified and reframed to accommodate the new elevators.

The existing historic limestone and brick facades were investigated to assess their condition, and repair details were developed to restore these elements to full functionality.





BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Federal Reserve Bank of Cleveland Facade Restoration

YEAR
COMPLETED
Ongoing

Cleveland, OH
\$2.7M



PROJECT DESCRIPTION:

This 12-story, steel-framed bank building clad with Georgian marble, required care and maintenance due to its nearly century-old status. Close-up investigation from a scaffold rig, with detailed field notes, enabled a comprehensive documentation of all facade problems and facilitated development of repair documents.

ADDITIONAL PROJECT FACTS:

- Condition assessment of the marble-clad Operations (Annex) building.
- On-going consulting services.
- Development of restoration and repair documents.

The original Federal Reserve Bank of Cleveland building is a 12-story, steel-framed building with marble, granite, and terra-cotta facade and is one of the City's most elegant structures. Barber & Hoffman was responsible for the restoration and historic preservation of the existing building's exterior masonry facade, as part of the Bank's mid-1990's expansion and renovation project. An in-depth assessment report with opinions of probable repair costs and the creation of masonry facade construction documents preceded a two-year construction phase. Accommodating high-level building security was a key factor throughout the \$2.6 million project completed in 1995.

Since that time, Barber & Hoffman has provided on-going consulting services, including a 2004 condition assessment of the marble-clad Operations (Annex) Building. That survey led to the development of construction documents and oversight of isolated facade repairs, which totaled over \$20,000.

Specific repair sketches and documents have been prepared for various deteriorated items, including:

- Creation of new vertical masonry expansion joints
- Full stone replacement of spalled/severely deteriorated stones
- Repair/replacement of existing stone lintels, steel relief angles, and marble panels
- 11th floor terra-cotta cornice repairs with replacement of over 150 modillion units
- Mortar and sealant joint repairs
- Facade cleaning and waterproofing of all masonry surfaces.

Barber & Hoffman continues to consult with the Bank regarding facade concerns on an as-needed basis.





BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Schofield Building Historic Preservation

YEAR
COMPLETED
2012

Cleveland, OH
\$52.0M



PROJECT DESCRIPTION:

Restoration of the historic facade and renovation of the interior of a 14-story office building for multi-use occupancy.

ADDITIONAL PROJECT FACTS:

- Extensive field work to assess existing structural framing and existing conditions.
- Shoring of building columns designed to permit construction of a new elevator pit.

The Schofield Building is located prominently on the corner of Euclid Avenue and E. 9th Street in downtown Cleveland. It is a 1900's-era steel-framed structure with clay tile flat arch flooring. The project scope involved restoration and renovation of the 14-story building for commercial, hotel, and residential use.

The original terra-cotta facade was covered in the 1960's by metal paneling. Projections from the terra cotta were cut to install the metal. The project sought historical restoration of the appearance of the terra-cotta facade, through repair and replacement of some terra cotta, and recreation of damaged elements.

Existing drawings for the building were limited, so Barber & Hoffman Inc. undertook extensive field observations to determine the steel framing and floor structure, which needed to be assessed and analyzed for new loadings and for modifications at new openings. The project includes a new grand stair from the basement to the second floor, reconfigurations of the foundations at a new elevator pit, and reinforcement of the roof structure to support a green roof.





BARBER & HOFFMAN, INC.
Consulting Engineers

PROFILE

Ronald M. Czaplicki, PE
VICE PRESIDENT/SECRETARY

JOINED
THE FIRM
1986

Cleveland
Ohio

RESPONSIBILITIES

Mr. Czaplicki serves as Principal-in-Charge and Project Manager on major jobs requiring failure investigation, building envelope and facade investigations, rehabilitation/restoration work, structural condition surveys, and product and materials research work, particularly brick, stone, terra-cotta wall and curtain wall repairs, as well as parking garage investigations and repairs. Many of his projects involve historic preservation.

Mr. Czaplicki has been associated with Barber & Hoffman Inc. since 1986. In his years with the firm, he has developed from structural designer to Project Manager. Following these years of training, he assumed the position of Associate in 1993 and Office Manager in 1995. In 2004, he became a Principal of the firm. Interacting daily with building owners, managers, architects, contractors, and material fabricators, Mr. Czaplicki champions the collaborative approach in developing efficient, cost-effective solutions to design, detailing, repair and restoration challenges.



PROJECT EXPERIENCE

UNIVERSITY HOSPITALS HEALTH SYSTEM - STRUCTURAL ASSESSMENTS AND BUILDING CONDITION SURVEYS:

- Sharon Family Physicians Center - prepurchase condition survey
- Medical Office Building at Rt. 44 & Mayfield Rd. - structural condition survey
- Mayfield and Green Medical Office Building - due diligence survey
- Olmsted Falls Medical Office Building - due diligence survey
- Ashtabula Medical Office Building - due diligence survey
- Geauga Professional Arts Building - due diligence survey

SCHOFIELD BUILDING - HISTORIC PRESERVATION - RENOVATIONS AND ALTERATIONS

Cleveland, Ohio • Restoration and renovation of a 14-story building for commercial, hotel, and residential use. The 1900's-era structure is steel-framed with clay tile flat arch flooring. Project scope includes field-determination of the existing framing, reframing at new and existing floor openings, design of a new grand stair from the basement to the second floor, reconfiguration of foundations at a new elevator pit, and reinforcement of the roof structure to support a green roof.

ROCKWELL BUILDING - HISTORIC PRESERVATION - RENOVATIONS AND ALTERATIONS

Cleveland, Ohio • Exterior facade restoration of historic limestone and brick masonry seven-story office building. This early 1900's-era structure is steel-framed with clay tile floor construction. Project scope involves modernization of facility for high-end use by major legal firm, including assessment of structure for new loadings, provisions for new columns and footings, and design of new monumental staircase within the building. Work involved maintaining and enhancing historic character of the building. The project qualified and received an historic tax credit.

LEADER BUILDING

Cleveland, Ohio • Facility structural condition assessment and repair to prominent 15-story, early 1900's vintage stone-clad office building.

EDUCATION:

- Master of Science in Civil Eng., 1989
Cleveland State University
- Bachelor of Civil Engineering, 1980
Cleveland State University

REGISTRATION: P.E. 1983

- Ohio
- Colorado
- Connecticut
- District of Columbia
- Kentucky
- Minnesota
- Pennsylvania

PROFESSIONAL AFFILIATIONS:

- International Concrete Repair Institute - Northern Ohio Chapter
- Cleveland Restoration Society
- Building Owners' & Managers' Assoc.
- Structural Engineers Association of Ohio
- Cleveland Engineering Society - Board Member since 2006, currently V.P.
- American Institute of Steel Construction
- International Masonry Institute
- Fairview Park Chamber of Commerce
- Tau Beta Pi
(National Engineering Honor Society)



ADDITIONAL PROJECT EXPERIENCE

KENT STATE UNIVERSITY - BUILDING ENVELOPE AND ROOF REPAIRS

Kent, Ohio • Collaborated with architect and roofing specialist regarding multi-building observation of exterior distress. Provide report with observed masonry, concrete, stone, roof deck, and steel distress, causes, and repair procedures. Project involved Smith Hall, Williams Hall, and the Science Research Center.

TERMINAL TOWER FACADE RESTORATION, REPAIRS, AND HISTORIC PRESERVATION

Cleveland, Ohio • Serving as Engineer-of-Record for a major five-year restoration program, involving over \$20 million in exterior cladding repairs. An extensive renovation of the entire 52-story building from the flagpole down to street level. Investigation and repairs involved stone, terra cotta, and brick masonry restoration, along with investigation and repair of deteriorated structural steel.

LORAIN COUNTY JUSTICE CENTER - EXTERIOR FACADE REPAIRS

Elyria, Ohio • Involved a close-up inspection of the exterior brick masonry and the interface of the masonry with the curtain wall system, identifying and recording the various structural and cosmetic distress in the brick masonry, and creating inspection openings in the masonry for visual observation of the interface between the masonry and the back-up curtain wall system. Contract repair documents were then prepared and issued for bids. Developed complete repair documents, drawings, and details for the restoration.

FEDERAL RESERVE BANK OF CLEVELAND FACADE RESTORATION

Cleveland, Ohio • Exterior facade inspection and repairs, including marble and granite cladding, as well as architectural terra-cotta ornamentation on the ten-story Main Building and seven-story Annex.

HUNTINGTON BUILDING FACADE RESTORATION

Cleveland, Ohio • A 22-story building clad primarily with limestone, excepting cornices and window surrounds above the 17th floor which are made of terra cotta. Restoration and preservation included anchoring of cracked stone lintels over windows to stones above; replacement of the 20th floor terra-cotta cornice units; partial stone replacement at selected locations; removal of brick masonry, cleaning and painting or replacement of steel shelf angles, and replacement of the removed brick. Removal of 17th floor terra-cotta cornice and replaced with fiberglass.

KENT STATE UNIVERSITY WHITE HALL EXTERIOR WALL INVESTIGATION AND REPAIRS

Kent, Ohio • Investigation and repairs to five-story masonry building, which involved stabilization of bowed exterior masonry bearing walls, and replacement of perimeter stone band around the building.

B.F. KEITH BUILDING - FACADE RESTORATION

Cleveland, Ohio • Ongoing restoration efforts have been focused on investigating areas of cracking of the terra-cotta cladding induced by corrosion of underlying structural steel. Investigative openings and remedial measures have been developed and implemented. Repair documents, drawings, details, and specifications have been developed and updated periodically.

FACADE RESTORATION:

- First Congregational Church
- Terminal Tower
- Kent State University
- B. F. Keith Building
- Federal Reserve Bank of Cleveland
- Envoy Condominiums
- Huntington Building
- United Way of Greater Cleveland
- Lorain County Justice Center
- Schofield Building
- Rockwell Building

PARKING GARAGE RENOVATION:

- MetroHealth Medical Center
- Hilliard House Condominiums
- Edgewater Towers Condominiums
- Shaker Courts Condominiums
- Winton Place Condominiums

HIGHER EDUCATION:

- Kent State University
- Cleveland State University
- Case Western Reserve University
- John Carroll University

MEDICAL:

- MetroHealth Medical Center
- Fairview Hospital

Terminal Tower Facade Repairs
Cleveland, Ohio





BARBER & HOFFMAN, INC.
Consulting Engineers

PROFILE

Brad A. Boomer, PE
ASSOCIATE

JOINED
THE FIRM
2003

Cleveland
Ohio

RESPONSIBILITIES

Mr. Boomer is an Associate for the firm with over 13 years of experience in structural design, analysis, and production of contract documents for a variety of commercial, industrial, and educational projects. His experience also includes investigation and repair of masonry, concrete, and steel-framed buildings, as well as parking garages.

CAREER DEVELOPMENT:

Mr. Boomer joined the firm in 2003. In his years with the firm, he has developed from structural engineer to Senior Design Engineer. He has the responsibilities of managing multiple projects. He will serve as project manager which includes structural design, supervising other staff members, and communication with our clients. In 2011, he became an Associate with the firm.



PROJECT EXPERIENCE

GEAUGA COUNTY COURTHOUSE & COURTHOUSE ANNEX

Chardon, Ohio • The renovation project included multiple buildings consisting of a three-story courthouse and two and three-story buildings adjacent to each other forming the courthouse annex. The structures, originally built in the 1880's and early 1900's, were constructed using load-bearing brick masonry walls and rough sawn timber joists and stud walls. The structural renovations included condition surveys, removal of timber bearing walls, floor in-fills of existing openings, and support of new mechanical equipment.

CLEVELAND INSTITUTE OF ART - MCCULLOUGH BUILDING RENOVATION

Cleveland, Ohio • Renovation of a four-story industrial building. The purpose of the renovation is to reinstate the current school building to historic configuration. The renovation included the support of large rooftop mechanical units for the existing building and future addition, infilling existing floor openings, creating new floor openings, adding an elevator and facade restoration. Renovation to the existing facade, which consists of red brick and white terra cotta, was also performed. The facade renovation was performed to restore the building's historic features while adding new the most efficient amount of natural light into the interior of the building.

CLEVELAND MUSEUM OF ART 1916 BUILDING RENOVATION

Cleveland, Ohio • The project involved renovating 389,000 sq. ft. of the existing museum galleries and offices. The renovated space of the historic original 1916 Beaux Arts Building will connect with 200,000 square-feet of new space to improve circulation and increase overall gallery space. Structural renovations included filling in many existing floor openings, creating temporary openings in the façade for construction access, lowering portions of basement slabs to match the basement floor elevation, and analyzing the existing structural steel roof trusses to support new mechanical equipment. Constant involvement during the construction phase to assist with many unforeseen conditions.

EDUCATION:

- Cleveland State University, 1995
Bachelor of Science in Civil Engineering

REGISTRATION: P.E. 2000

- Ohio

PROFESSIONAL AFFILIATIONS:

- Structural Engineers Association of Ohio, Present Director
- American Institute of Steel Construction



ADDITIONAL PROJECT EXPERIENCE

THE PLAIN DEALER PARKING GARAGE RENOVATION

Cleveland, Ohio • A concrete restoration project for a 240,000-square-foot parking facility. Following a site inspection and condition survey, construction documents and specifications were developed for the repair of the concrete-framed structure and facade. Repairs for precast concrete beams, double-tees and columns were made to the structure and repairs to masonry and precast panels were made for the facade. Improvements to the three-story structure also included the installation of waterproofing below a new concrete topping, and improvements to the four stair towers.

SOUTH FRANKLIN CIRCLE COMMUNITY CENTER

Bainbridge, Ohio • The three-story, 80,000 square foot community center includes a fitness center, indoor pool, dining and club rooms, learning center, theater/auditorium and nine independent living units. The facility was designed with a partial basement to accommodate a significant change in grade around the building perimeter. Steel columns and beams supported concrete floor slabs on metal deck as well as providing the lateral resisting system through the use of moment frames. The roof structure was framed using cold-formed steel joists and trusses bearing on a platform of steel beams.

WESTLAKE VILLAGE SKILLED NURSING EXPANSION

Westlake, Ohio • The new Skilled Nursing Facility is an expansion to the retirement center at Westlake Village. The 2-story 39,000-square-foot facility included 60 resident rooms, a physical therapy room, multi-purpose room, dining room, nursing station, and beauty salon. The floors were constructed of concrete on metal deck and were supported with structural steel beams. The roof was constructed of cold-formed metal trusses spanning nearly sixty feet. The entire structure was supported on a system of drilled piers and perimeter grade beams.

UNIVERSITY HOSPITALS MEDICAL OFFICE BUILDING

Twinsburg, Ohio • A new two-story, 46,000-square-foot outpatient health center including a three-story elliptical tower. The facility's structure utilized lightweight composite floor construction on steel framing bearing on shallow spread footings. Steel moment frames comprised the structure's lateral resisting system. Additional features include two steel-framed canopies at the main entrance, as well as a cantilevered canopy projecting over the ambulatory entrance.

UNIVERSITY HOSPITALS MEDICAL OFFICE BUILDING

Concord, Ohio • A new three-story, 61,000 total square foot ambulatory medical center with an urgent care center, surgery center, as well as a laboratory for advanced diagnostics, radiology, and cardiac testing. The facility's structure utilized lightweight composite floor construction on steel framing bearing on shallow spread footings. Steel moment frames comprised the structure's lateral resisting system. Additional features include a curved, two-story glass screen wall for concealing rooftop mechanical equipment and a 1,700-square-foot free-standing canopy.

MEDICAL:

- Cleveland Clinic
- University Hospitals Health System
- Southwest General Health Center
- Lake Health

HIGHER EDUCATION:

- Cleveland Institute of Art

K-12:

- Cleveland Metropolitan School District
- Canton City Schools
- St. Edward High School

HOUSING:

- South Franklin Circle Retirement Community
- Westlake Skilled Nursing

OFFICE BUILDINGS:

- The Plain Dealer
- Geauga County Courthouse

PARKING GARAGE:

- The Plain Dealer
- Summit 2

CIVIC:

- Cleveland Museum of Art
- New Albany Performing Arts Center

Cleveland Institute of Art
Cleveland, Ohio



Blundall Associates, Inc.

*Construction Cost Consultants
Quantity Surveyors
Project Managers*

COMPANY PROFILE

Blundall Associates, Inc., is in its thirty-second year of providing cost consulting and project management services to a wide range of commercial, institutional, and industrial clients. In a typical year we prepare estimates for projects in excess of one billion dollars in total value for clients in many states - the majority of our work falling from the Midwest to the East Coast.

Blundall Associates, Inc., employs five full-time professional estimators, three estimating technicians/interns, and an office manager/administrative assistant. All of our senior full-time estimators have a relevant college education and at least five years of experience in the construction industry and/or the professional construction cost consulting/estimating field. We are a full service practice; our in-house staff prepares estimates for all architectural and engineering disciplines, including mechanical and electrical trades.

An independent cost analysis by Blundall Associates, Inc., provides an objective review of project costs based on the construction market in the region in which the project is located without any preconceived ideas as to the optimum project design solutions. This allows owners and architects to objectively evaluate and price base design and alternatives to provide a solid foundation for either bidding or negotiating the project.

Blundall Associates, Inc., is a corporate member of The Association for the Advancement of Cost Engineering, the American Society of Professional Estimators, and the U.S. Green Building Council. Three members of our staff have achieved the designation of Certified Professional Estimators through the American Society of Professional Estimators, and our staff is trained in the use of the MCACES MII estimate system. Our staff also includes LEED Accredited Professional personnel, and we have worked on projects incorporating significant levels of sustainable design features for approximately ten years. We have completed or are working on numerous projects typically seeking "Silver" or "Gold" LEED certification.

Thank you for your interest in the services offered by Blundall Associates, Inc. If you have any questions or need any additional information, please contact Martyn R. Blundall at 260-489-8444 or via email at mblundall@blundall.com.

9602 Coldwater Road, Suite 204, Fort Wayne, IN 46825
Phone (260) 489-8444, Fax (260) 489-5994
www.blundall.com

PROJECT LISTING

The following is a sample listing of **Restoration/Preservation** projects for which design cost control services were provided by Blundall Associates, Inc.

<u>Project</u>	<u>Value</u>
Addition and Renovations Randolph County Courthouse Winchester, Indiana	\$ 4,300,000
Renovation/Restoration Goshen City Municipal Building Goshen, Indiana	2,600,000
Hilton New Orleans French Quarter Hotel Historic Audubon House Renovations New Orleans, Louisiana	16,000,000
Snowden Hall Patuxent Research Refuge U.S. Fish & Wildlife Service Prince George's County, Laurel, Maryland	1,600,000
Rehabilitation of Merriam Hall and Garage Patuxent Research Refuge U.S. Fish & Wildlife Service Prince George's County, Laurel, Maryland	3,900,000
Service Buildings 52, 53, 83 and 109 Patuxent Research Refuge U.S. Fish & Wildlife Service Prince George's County, Laurel, Maryland	2,400,000
Restoration of Smith Field Hangar No. 2 Fort Wayne, Indiana	1,400,000
Renovation/Reconstruction of Historic Sidney Theatre Sidney, Ohio	3,900,000
Clarendon Hotel - Restoration St. Clairsville, Ohio	2,150,000
Frank Lloyd Wright Westcott House – Restoration Springfield, Ohio	3,500,000

<u>Project</u>	<u>Value</u>
French Lick Springs Resort & Spa Master Plan French Lick, Indiana	\$ 23,000,000
Addition and Restoration Lerner Theatre Elkhart, Indiana	16,500,000
Slippery Rock University – West Hall Renovation Slippery Rock, Pennsylvania	2,600,000
Morris Performing Arts Center – Additions & Renovations South Bend, Indiana	9,800,000

PROJECT LISTING

The following is a sample listing of projects located in **West Virginia** for which design cost control services were provided by Blundall Associates, Inc.

<u>Project</u>	<u>Value</u>
Harper's Ferry IV – Dormitories and Conference Center U.S. Customs and Border Protection Harper's Ferry, West Virginia	\$ 37,336,000
Wastewater Treatment Plant & Infrastructure Backbone Harper's Ferry – Phase IV/V U.S. Customs and Border Protection Harper's Ferry, West Virginia	10,973,000
Harper's Ferry – Warehouse U.S. Customs and Border Protection Harper's Ferry, West Virginia	3,750,000
Learning Center Harper's Ferry Phase III U.S. Customs and Border Protection Harper's Ferry, West Virginia	17,823,400
Wallman Hall Renovation – MEP Upgrades Fairmont State University Fairmont, West Virginia	5,100,000

MARTYN R. BLUNDALL

**President
Blundall Associates, Inc.**

Experience

Over forty years construction estimating/management experience in North America and Europe, as summarized below:

1980-Present: President of Blundall Associates, Inc., a construction cost consulting/project management company with clients throughout the midwestern and eastern United States, providing design cost control services to the commercial construction industry. Services include estimates at each design level from schematic to construction documents, value engineering and life cycle cost studies, preparation of schedules of quantities, change order evaluations and construction cash disbursement projections. Services are provided for new construction and for the rehabilitation of existing buildings.

1974-1979: Construction Cost Consultant/Project Manager responsible for estimating, scheduling and project administration on a wide range of commercial, industrial, and institutional projects. Assistant project manager for a \$50-million health sciences complex and a \$10-million regional civic building (1975 costs).

1967-1974: General Contractors' Estimator/Project Manager responsible for the financial control of construction contracts with an individual value of up to \$5 million (1970 costs).

Education

England: Five years professional education in Construction Management, Estimating and Quantity Surveying, Value Engineering and Life Cycle Costing: 1967-68 Hall Green Technical College, 1968-71 Birmingham Polytechnical College, 1971-72 Salford University Technical College.

U.S.A.: Continuing education courses in Computerized Scheduling Techniques, Computer Programming, and Mechanical and Electrical Estimating.

Membership

The Association for the Advancement of Cost Engineering
American Society of Professional Estimators
Board Member/Vice President--Old Fort Chapter American Society of
Professional Estimators
U.S. Green Building Council

PHILLIP SALISBURY

**Senior Estimator
Blundall Associates, Inc.**

Experience

February 2001 – present: Estimator. Blundall Associates, Inc.
Ten years' experience performing quantity take-offs and estimate preparation
for all architectural, engineering, and site development trades

Education

Indiana University-Purdue University – Fort Wayne, Indiana
Bachelors Degree - Construction Engineering Technology/Construction
Engineering, 2004

Indiana University-Purdue University – Fort Wayne, Indiana
Associates Degree - Architectural Engineering Technology, 2003

Certification

LEED® Accredited Professional, BD+C
Certified Professional Estimator (American Society of Professional Estimators)

Membership

American Society of Professional Estimators
ASPE Old Fort Chapter No. 65