DCAM & AOTC **SALEM PROBATE & FAMILY COURT** The second **RENOVATION**

TRACTION OF THE OWNER O

PERRY DEAN ROGERS PARTNERS ARCHITECTS

JULY 24, 2012

TRC1209 ST1

TODAY'S AGENDA

1. INTRODUCTIONS

Team Experience Experience with Relevant Historic Projects

2. PROJECT OVERVIEW

Framing the Issue: Goals and Approach Program Development

3. HISTORIC CONSIDERATIONS Character-defining features

4. SUSTAINABLE DESIGN

5. QUESTIONS

OUR TEAM

JULY 24, 2012

DCAM

Shirin Karanfiloglu, Director of Programming Elayne Campos, Deputy Director Bob Barry, Deputy Director, Construction Ann Schiro, Project Manager Paul Ford, Project Manager, Construction Jeff Novak, Project Engineer

AOTC

Richard L'Heureux, Project Manager Kim Wright, Court Administrator Pamela O'Brien, Register of Probate

Salem Probate & Family Court

Andrea M. Gilmore, Director

Cory Trembath, Sr Conservator

PERRY DEAN ROGERS PARTNERS ARCHITECTS Martha Pilgreen **Rvan Senkier** Tom McCarty Anne Brockelman Principal-in-Charge Senior Project Manager **Project Architect Project Manager** Mechanical Engineer (M/P/FP) **Electrical Engineer** Structural Engineer **BVH** Integrated Services **BVH** Integrated Services Lim Consultants, Inc. George Iskra, P.E., President Michael Pang, P.E. Susan Burkhardt, P.E., Principal Thomas Iskra, P.E., Proj Manager **Civil Engineer** Landscape Architect **Specifications Consultant** Carol R. Johnson Associates Nitsch Engineering Kalin Associates Anthony Donato, P.E., CFM, LEED AP Iohn Amodeo, ASLA, LEED AP Mark Kalin FAIA FCSI LEED, President Tim McGivern, P.E. Johnathan Law, Associate **Historic Preservation Specialist Cost Estimator** MA Building Code Consultant Building Conservation Associates, Inc.

Faithful+Gould Paul Male, Senior Vice President

Rolf Jensen & Associates Carl Nelson, P.E.

JULY 24, 2012

HISTORIC AGENCIES



Massachusetts Historical Commission

William Francis Galvin Secretary of the Commonwealth



SALEM HISTORICAL COMMISSION



HISTORIC SALEM INC



OVERVIEW OF RELEVANT HISTORIC PROJECTS

PERRY DEAN ROGERS | PARTNERS ARCHITECTS BUILDING CONSERVATION ASSOCIATES BVH INTEGRATED SERVICES

TIT:

PART OF PERRY DEAN'S LEGACY

COLONIAL WILLIAMSBURG: OVER 85 BUILDINGS RESTORED



RELEVANT HISTORIC PROJECTS

99 RENOVATION/RESTORATION PROJECTS

25 PROJECTS ON THE NATIONAL REGISTER OF HISTORIC PLACES



PERRY DEAN'S RELEVANT EXPERIENCE

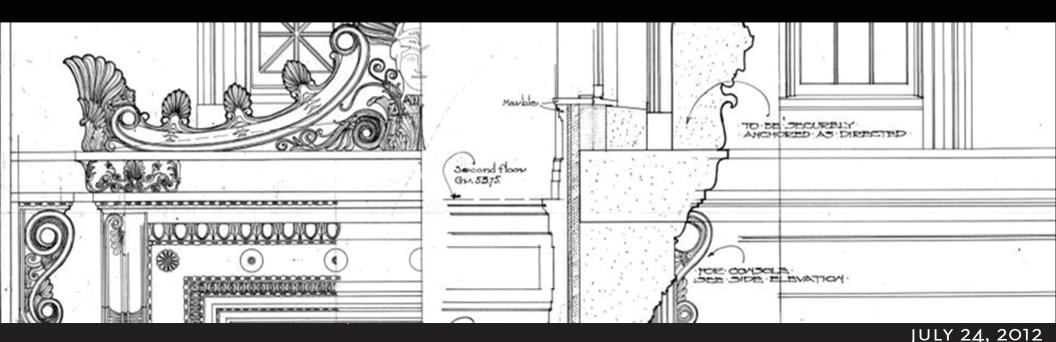
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Building Conservation Associates, Inc.



- Building technology firm, founded in 1985
- Specialize in the restoration, preservation, and conservation of historic buildings and works of art
- Detailed knowledge of and extensive experience in building materials
- View building preservation as a key component of sustainable and energy-efficient design
- Extensive experience with local, state, and federal historic commissions and regulations

- Conditions Assessment
- Research and Documentation
- Strategic Planning
- Restoration Design
- Materials Consultation
- Construction Administration
- Inspection Services



Selected Relevant Projects





Massachusetts State House, Boston, MA

- Comprehensive interior survey
- Historic Value Rankings of 2007 Master Plan
- Finishes studies in Senate Reading Room and House of Representatives Suite
- Plaster conservation surveys in Senate Reading Room and House Chamber

Selected Relevant Projects

BCA





Starr-Axinn Center, Middlebury College, Middlebury, VT

- Restoration of 1927 and 1957 Buildings as part of adaptive reuse project
- Existing conditions survey
- Construction documents
- Project monitoring
- Recipient of Boston Society of Architects 2009 Sustainable Design Award

Selected Relevant Projects

BCA



New Haven Superior Courthouse, New Haven, CT

- Historical Restoration Study
- Archival research
- Finishes analysis
- Documentation and development of comprehensive database of all interior and exterior building materials
- Preparation of National Register nomination



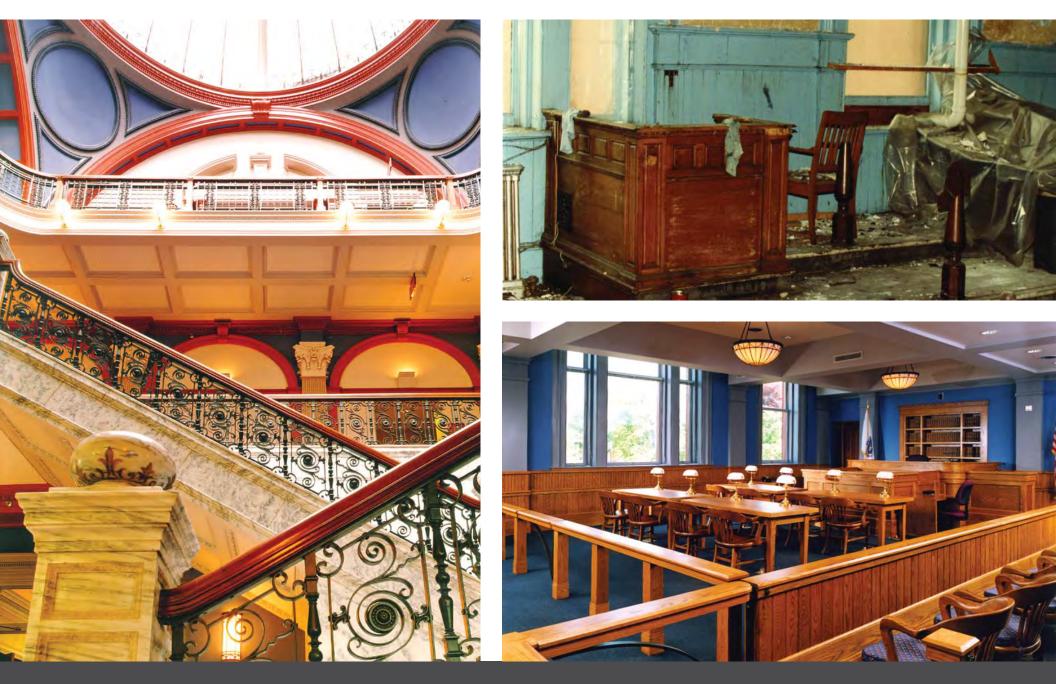
SPECIFIC RELEVANT EXPERIENCE PERRY DEAN ROGERS | PARTNERS ARCHITECTS

JULY 24, 2012

PLYMOUTH TRIAL COURT



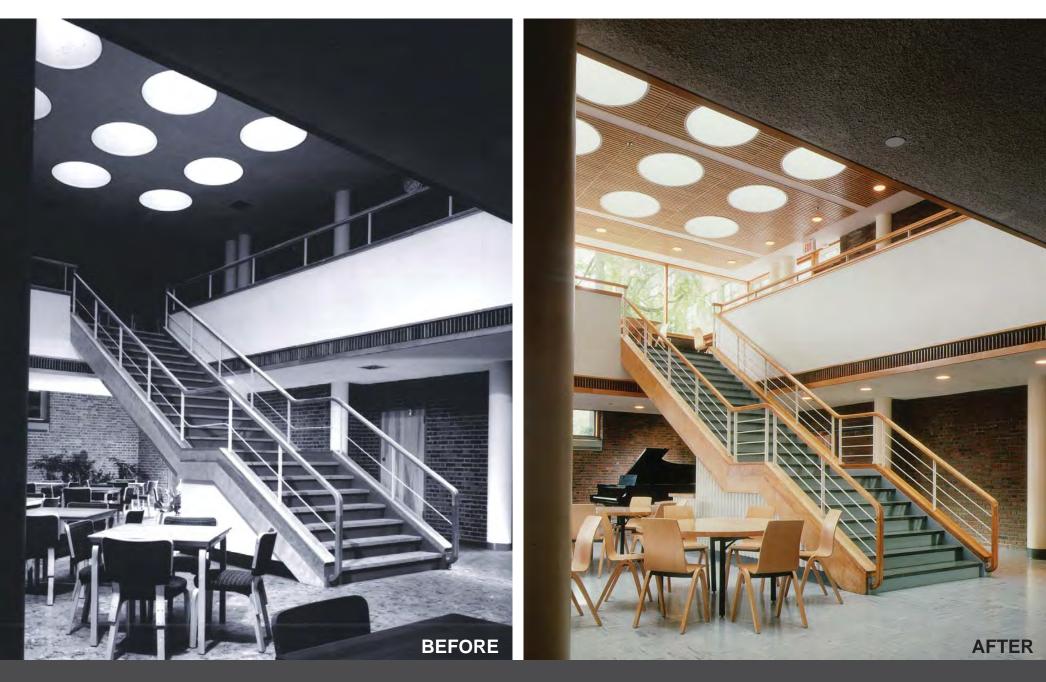
LAWRENCE SUPERIOR COURTHOUSE



BAKER HOUSE, MIT



BAKER HOUSE, MIT



YALE - BRANFORD AND SAYBROOK COLLEGES Perry Dean • BVH • BCA





Relevance to Salem Probate & Family Court Project:

- Restoration; Working within historical context
- Multiple constituencies
- Multi-disciplinary consultant group
- Formulation of goals and workplan preparation
- Existing conditions assessment
- Comprehensive building systems analysis & upgrade
- Universal Design
- Energy savings analysis / Sustainable design
- Comprehensive Feasibility Study

COMPARABLE PROJECT

SALEM PFC





SALEM PFC



YALE

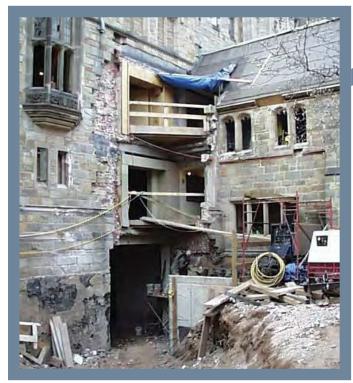


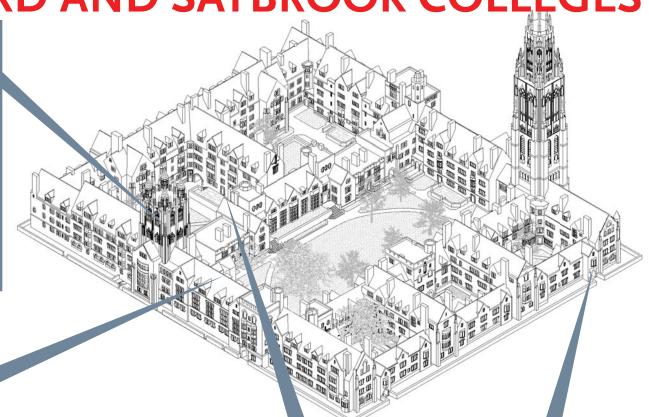
SALEM PFC



YALE - BRANFORD AND SAYBROOK COLLEGES





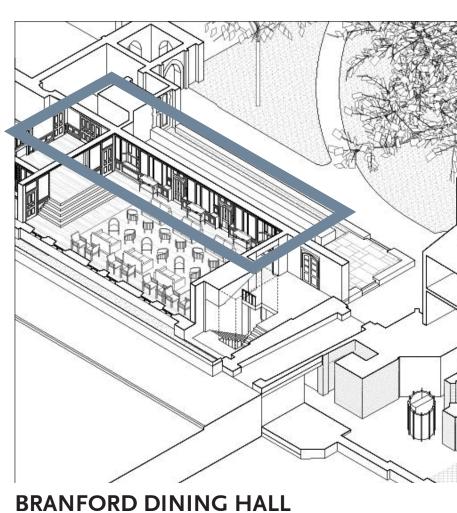






YALE - BRANFORD AND SAYBROOK COLLEGES





• Disassembling the panels



YALE - BRANFORD AND SAYBROOK COLLEGES



room

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DCAM GOALS FOR COURTHOUSE DESIGN

- Support the mission, organization and operations of the User Agency.
- Design buildings that respect and reflect local urban design considerations.
- Ensure that the Commonwealth's buildings balance short- and long-term benefits and costs to ensure long-term useful life and capacity for future changes in operation and use.
- Employ Universal Design principles.
- Achieve a degree of sustainability that minimizes negative environmental impact and maximizes features that conserve natural resources.
- Make public buildings that convey a public spirit, civic-mindedness, innovation, accessibility and social permanence.



AOTC GOALS FOR COURTHOUSE DESIGN

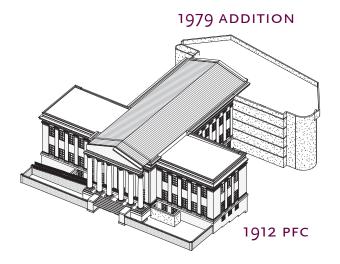
- Provide efficient and cost-effective judicial services to the public.
- Design a facility that supports the courts functions efficiently.
- Reinforce the importance of the court in society as a place where citizens participate in the justice system.
- Ensure the safety and security of all court staff and users.
- Enhance the delivery of justice by using technology to provide court users with an array of options to assist in court-related business and practices efficient collection, analysis and communication of information.
- To provide the best work environment for the health and well-being of the court staff as well as the public.



PROJECT LOCATION



SALEM PROBATE & FAMILY COURT 36 Federal Street Salem, MA

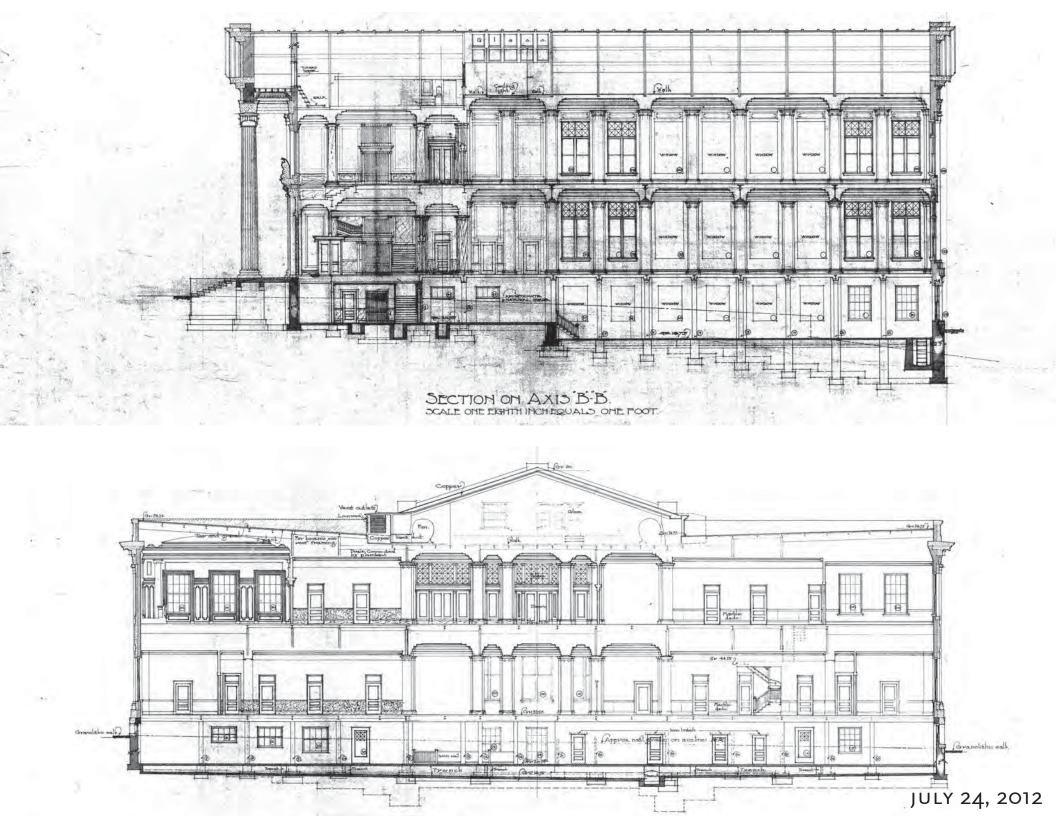


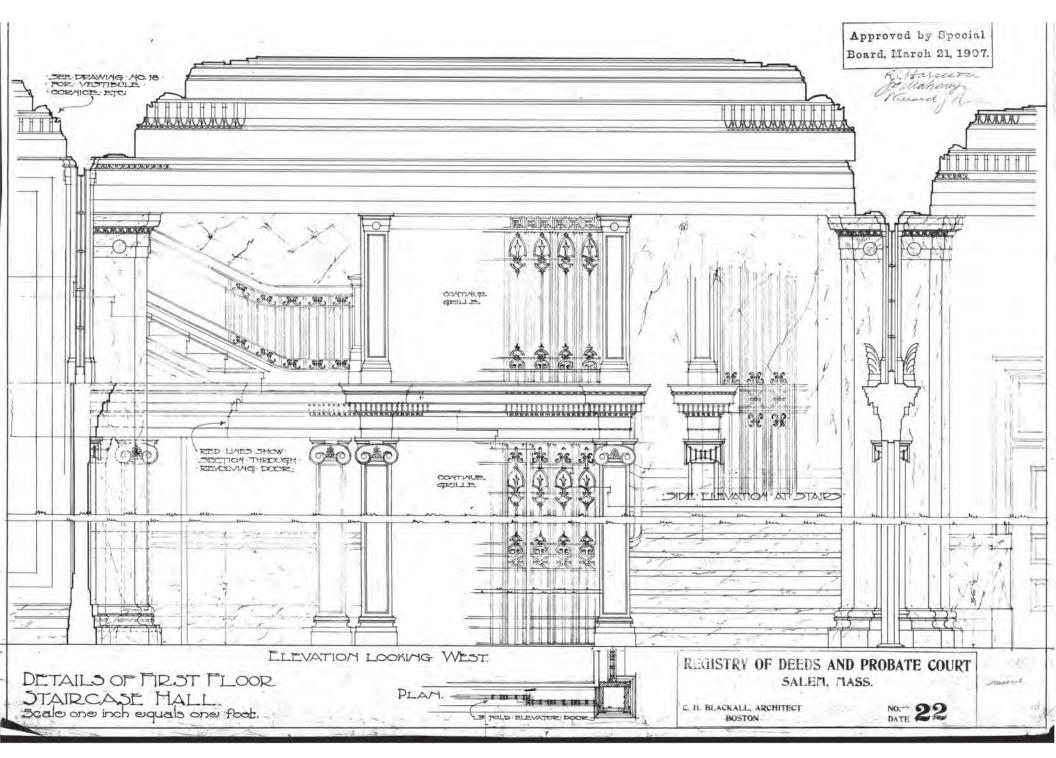


- 1. Ruane Judicial Center (Completed 2011)
- 2. Probate & Family Court Building Renovation Study
- 3. Superior Court Heating Plant Study
- 4. County Comissioner's Building Heating Plant Study
- 5. District Court Temporary Space

UNDERSTANDING THE VISION

To build upon the existing body of work and achieve consensus through an understanding of the PFC's needs with multiple strategies and to provide a sensitive rehabilitation of historical components.





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FRAMING THE ISSUE

GOALS

- Understand current programmatic and functional needs of the Trial Court, and Probate & Family Court Department in Essex County, Salem.
- A certified study and conceptual design for the renovation of the existing PFC building
- Review and provide economical solution for Temporary Space for PFC operations during the renovation
- Analyze and recommend a separate Heating Plant for adjacent Superior Court and County Commissioner's Buildings

CHALLENGES

- To accommodate the needs of a contemporary courthouse within an existing building while retaining its historic character and distinctiveness
- To carefully evaluate program needs for the PFC in the context of Essex County, while also considering the adjacent Ruane Judicial Center as an asset to be leveraged



CHALLENGES / CONSTRAINTS

PROGRAMMING ISSUES:

- Right-sizing; affirming the PFC's needs in the context of Essex County and the Ruane Judicial Center
- Accommodating large, contemporary courtrooms in existing historic envelope
- Secure circulation: maintaining separation of public, staff & detainees
 - New stair locations



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THE PROBATE & FAMILY COURT PROGRAM

USER POPULATION:

General Public

Jurors Litigants, Pro Se Litigants Detainees Researchers Victims; Witnesses Advocates Press / Media Clinicians; Social Services Families - All age groups

Courts Personnel & Staff

Judges Clerk Magistrate Probation Officers Register of Probate Court Officers Building Management Court Interpreters Court Reporters IT & other support

• Professionals

Defense Attorneys Prosecutors Mental health workers Advocates Mediators

- District Attorneys & ADA's
- Public Safety Officers
- Service Providers

Couriers Maintenance & Concession Vendors Translators Child care providers

PROGRAMS SUPPORTED BY THE PFC:

- Department of Revenue (DOR)
- Family Law / Pro Se Center
- Alternative Dispute Resolution

MEETING THE PROGRAM

KEY ISSUES IN CONTEMPORARY COURTHOUSES

- Diverse user groups
- Separate zones of circulation
- Multiple entry points
- Security

SALEM PFC ISSUES:

- Department of Revenue "DOR Day"
 - Must accommodate large surge of patrons every other week: shared, dual-use spaces
 - Use Hearing Room, Pre-Trial Conference Rooms, Waiting Areas
- Family Law / Pro Se Center
 - Reliance on Registry of Probate staff to oversee Public Research Area; share conference rooms
 - Share/combine Public Waiting/Transaction areas with Probate
- Detainees
 - Low anticipated detainee use;
 - Share secure circulation (corridor & elevator) with judges & staff

- Alternative Dispute Resolution
- Un-represented Litigants (Pro Se)
- Information Technology
- Social Services

PROGRAM DEVELOPMENT

DEPARTMENT Court sets (4 Courtrooms) Court Support & Holding Judicial Offices & Support **Register of Probate** Probate Probation Entry / Lobby Area **Supplemental Operations** Secure Waiting **Building Support** TOTAL

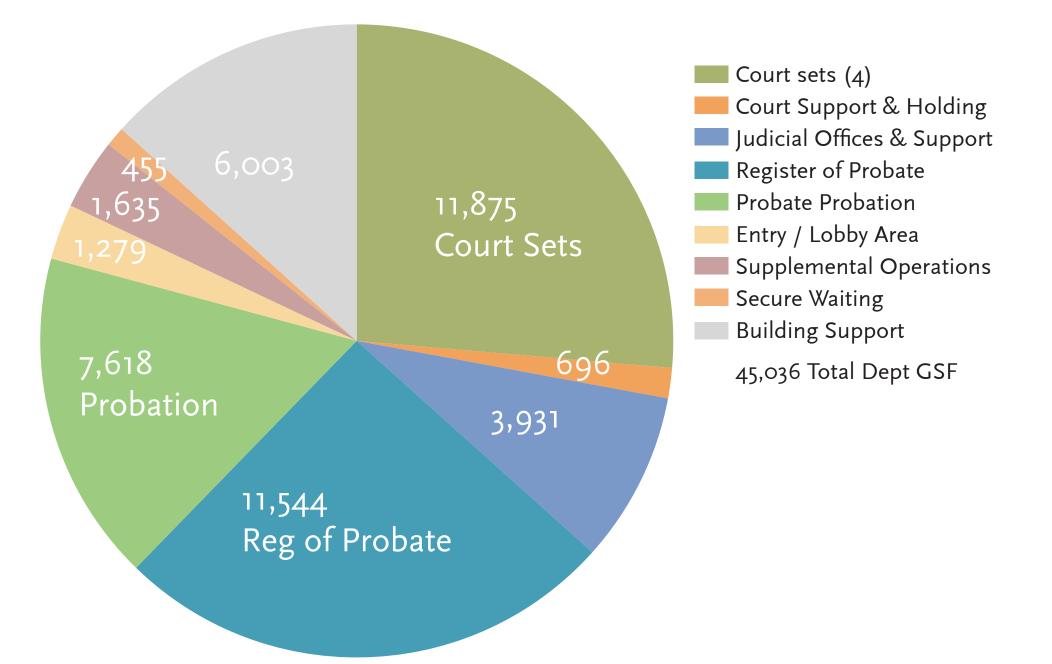
DEPARTMENT GROSS SQ FT

11,875	(2 large courtrooms @ 2,000 sf seating 50-60 spectators 2 small courtrooms @ 1,400 sf seating 25-30 spectators)
696	(includes Court Officers; Detainee Holding)
3,931	
11,544	(includes approx 4,000s sf high-density Records Storage)
7,618	
1,279	
1,635	(includes Pro Se/Family Law Center, DOR)
455	
6,003	
45,036	Dept GSF

1912 Probate & Family Court: 50,000 GSF1979 Addition27,000 GSF

- = 77,000 GSF TOTAL EXISTING
- = 58% Target Efficiency

PROGRAM DEVELOPMENT | Depts by Size (GSF)



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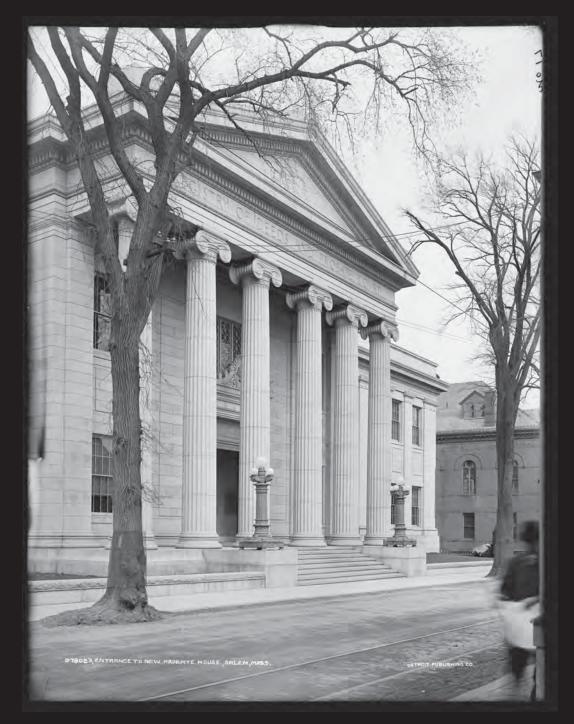
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BUILDING EXTERIOR | Historic Elements





THE REGISTRY OF DEEDS AND PROBATE COURT HOUSE Erected in Salem in 1908-1909.

CHARACTER-DEFINING FEATURES



Exterior

- Part of complex of courts
- Strong symmetry
- Durable materials:
 - Standing seam copper
 - Granite
 - Brick





Exterior

- Consistent window bay rhythm
- Crisp detailing, narrow mortar joints



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BCA

South Elevation

- Non-traditional column capitals
- 8/8 Double-hung wood windows
- Spare, articulated panels between floors





North Elevation – BCA East and West wings

- Transition of materials and detailing: stone to brick
- Non-traditional column capitals
- 8/8 Double-hung wood windows
- Spare, articulated panels between floors





North Wing

• Continuation of window bay rhythm

- Taller windows
- Mottled texture on bricks



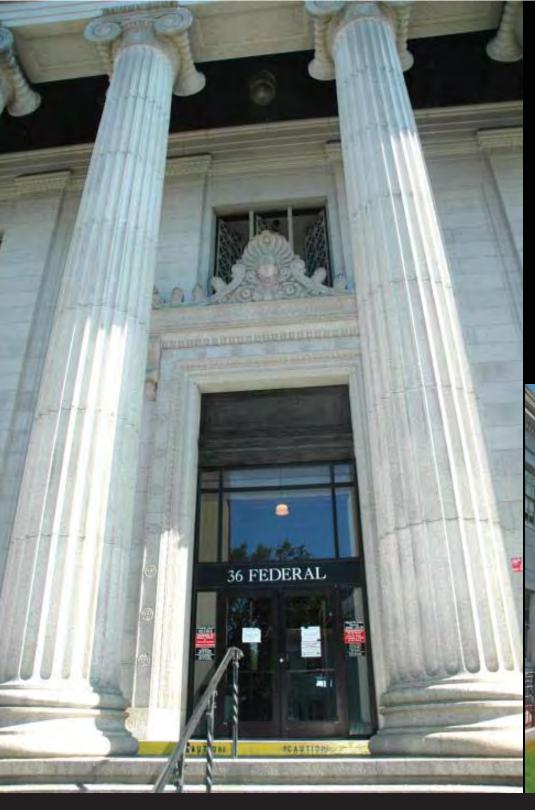


Windows

- Typically operable 8/8 wood double-hung
- Pairs of operable 1/1 wood double-hung with decorative transoms at north wing
- Stile extensions at top sashes
- Brick flat arches or stone lintels
- Stone sills







Entry Portico

- 6 Ionic columns
- Tall, ornamental doorway with inscribed plaque

- Decorative, operable casement windows
- Paneled wood ceiling
- Pair of decorative cast metal light standards

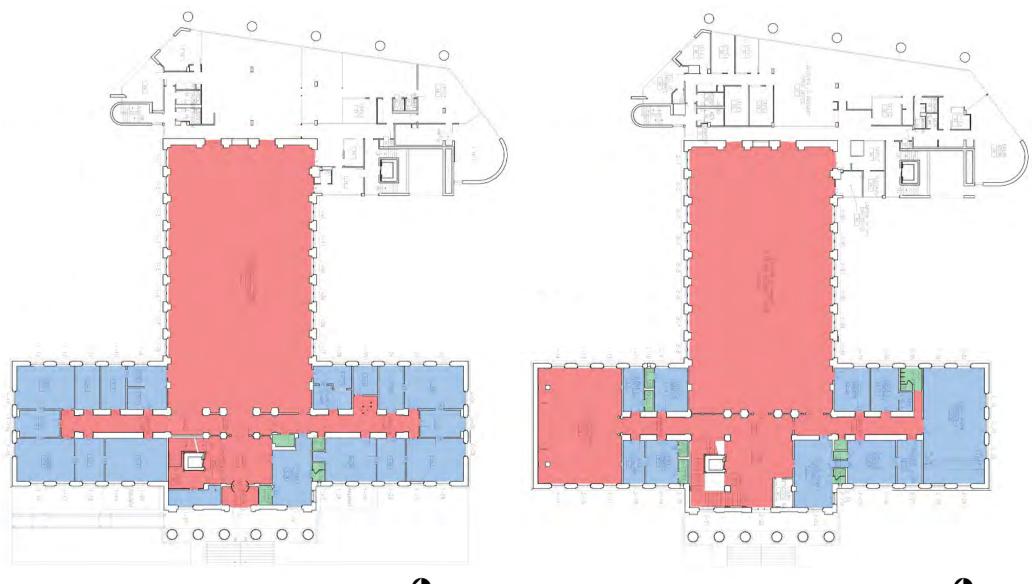


BUILDING INTERIOR | Historic Zones

ZONE 1 Areas of high architectural or historic significance: RESTORE

ZONE 2 Areas with fewer significant features

ZONE 3 Areas with minimally-significant architectural or historic features





BCA

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Entry Vestibule

- Wood doorway for revolving doors (now pair of hinged doors)
- Wood transom and trim (exterior transom non-original)
- Plaque
- Decorative plaster cornice
- Marble floor tiles and baseboard





Main Lobby

- Elevator with decorative metalwork exterior
- Monumental stair with marble steps and wainscot
- Decorative metal cornices and stair balustrades







Main Lobby

- Plaster ceilings and deep cornices
- Decorative millwork with transom windows

- Marble pilasters and floor tiles
- Large, ceiling-mounted light fixture





2nd Floor Lobby

- Monumental public space
- Continuation of Main Lobby features
- Marble "balustrade" guard rails





2nd Floor Lobby

- Decorative, operable wood casement windows
- Strong symmetry
- Durable materials





BCA Register of Probate

- Tall ceilings
- Plaster pilasters and deep cornices at beams
- Tall windows with transoms
- Decorative millwork panels and transoms





Register of Probate

- Large, unified volumes of space
- Wood laylight at second floor (missing skylight above)





BCA Session 1 Courtroom

- Large, shallow saucer dome coffer
- Tall, wood paneled wainscot
- Decorative wood entryway with double doors
- Deep cornices and beams
- Pilasters and free-standing columns
- Judge's bench





Corridors

- Tall, spare spaces
- Bookmatched marble wainscot
- Marble floor tiles
- Wood millwork at central bays





Other Features





EXISTING CONDITIONS

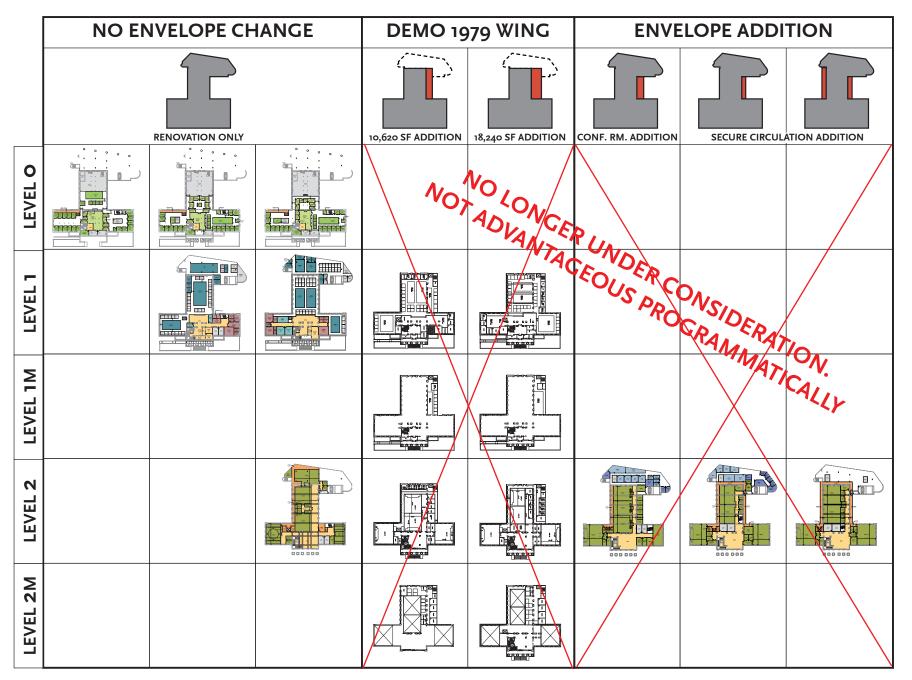
— Air conditioning

Power Heating & assoc. piping Subsequent dedicated power Original Power

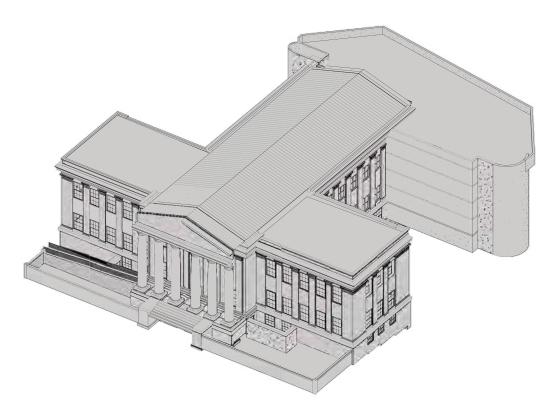
Tel-Data Technology

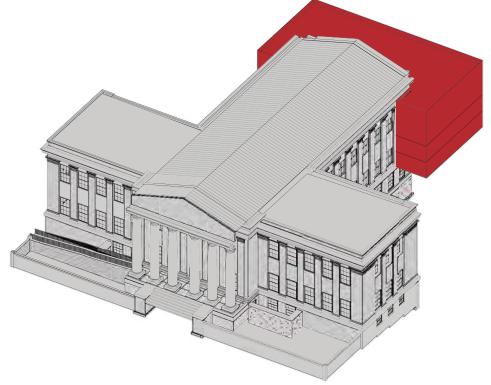
Finding a Balanced Solution

PFC - CONCEPTS EXPLORED



EVALUATION OF 1979 ADDITION

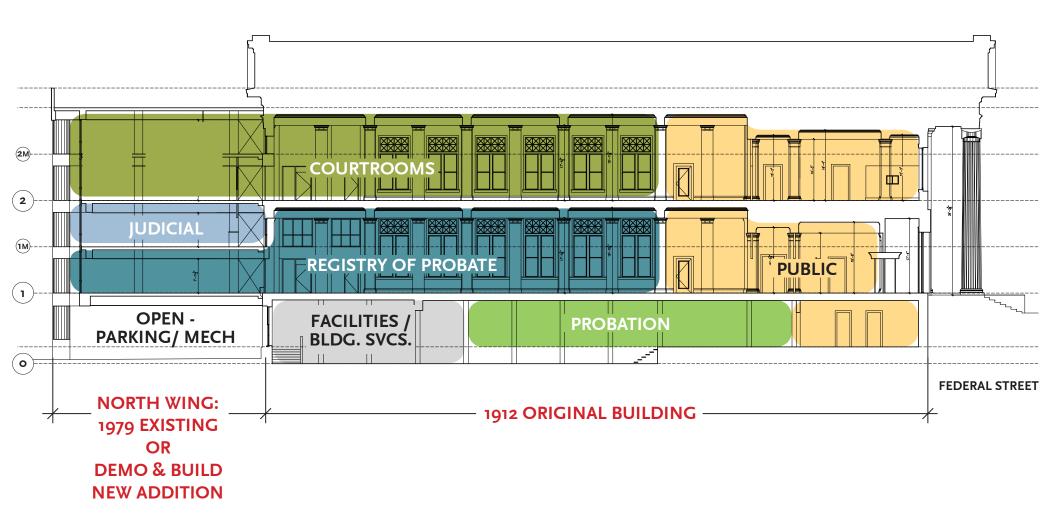




SCHEME A: NO ENVELOPE CHANGE -RENOVATION ONLY SCHEME B: DEMO 1979 WING -NEW ADDITION @ NORTH

> CURRENTLY UNDER INVESTIGATION

SECTION | Proposed Program Distribution



CURRENTLY UNDER INVESTIGATION



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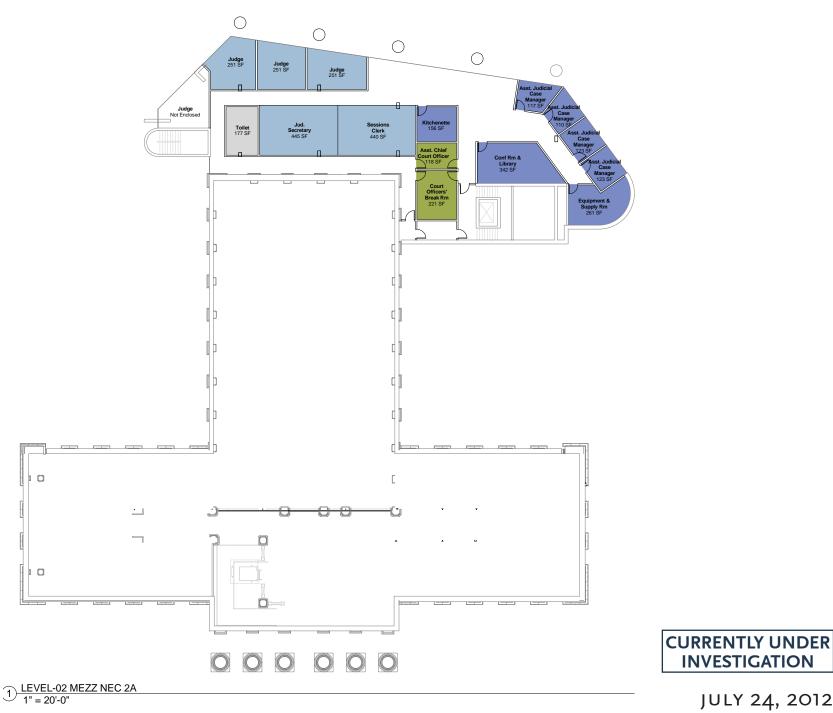
CURRENTLY UNDER INVESTIGATION

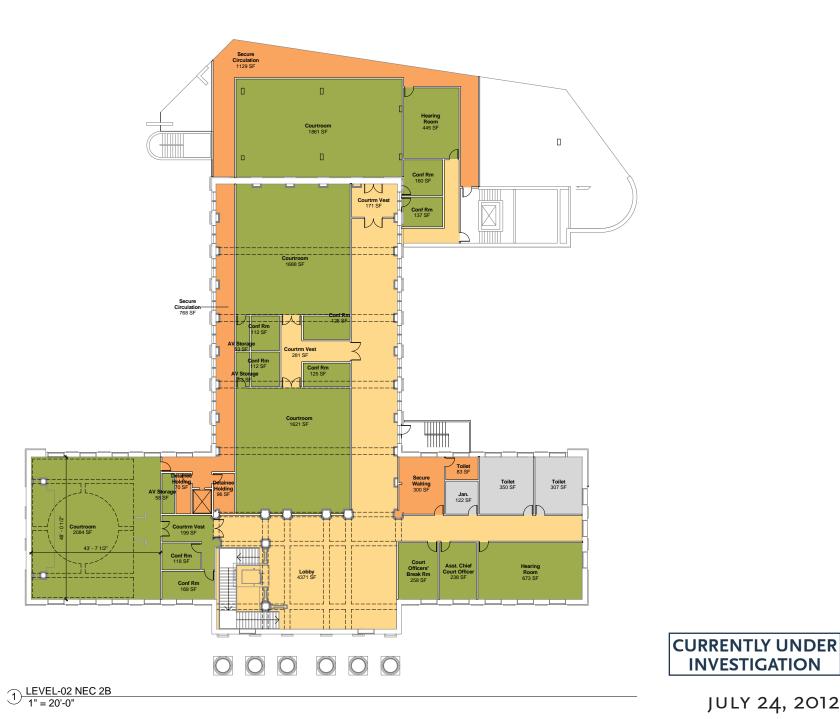
LEVEL 1



CURRENTLY UNDER INVESTIGATION

LEVEL 1M





JULY 24, 2012

INVESTIGATION

SCHEME B | North Addition

LEVEL 2



CURRENTLY UNDER INVESTIGATION

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SUSTAINABLE DESIGN PRIORITIES

EO484; MASS LEED PLUS; LEED SILVER MIN.

- Envelope Improvements
- Optimizing Energy Performance
 - Mechanical system
 - Electrical: Lighting
- Energy modeling to test and fine-tune strategies
- Consideration of impact on historic building
- Health and well-being of occupants and the public



HISTORIC BUILDINGS | Improving Energy Efficiency

- Balance goals of energy efficiency & potential energy savings with protection of historic property's materials & features
- Understand and leverage the existing building's inherent energy-efficient features
- Prioritize energy upgrades for improvements that provide the most payback and least compromise to historic character

UPGRADING BUILDING COMPONENTS:

MINIMAL ALTERATION

- Reduce air leakage
- Install storm windows*
- Add Attic insulation*
- Seal & insulate ducts & pipes
- Weather strip doors / add storm doors
- Add shading devices (interior*/exterior)

MORE ALTERATION

- Add/Reconfigure interior vestibules
- Replace windows*
- Add insulation to exterior walls*
- Install cool roofs and green roofs
- Replace doors*





QUESTIONS

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C