



**GovEnergy**  
[www.govenergy.gov](http://www.govenergy.gov)

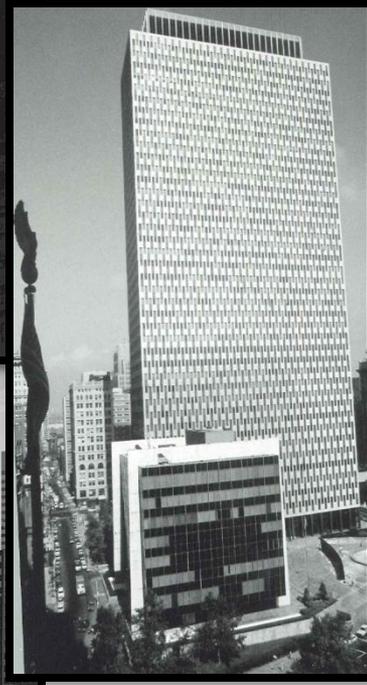
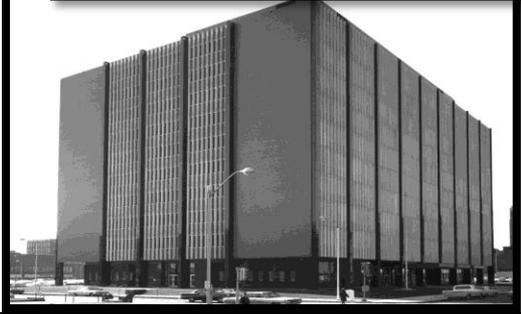
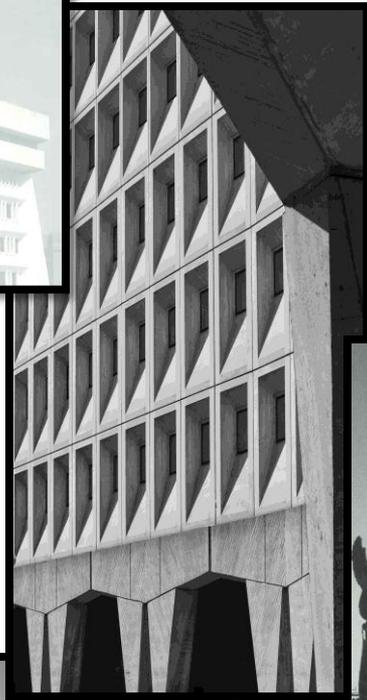
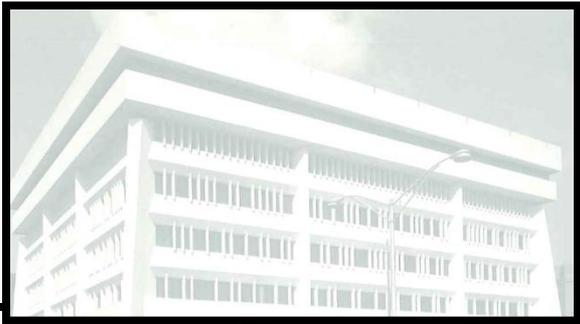
The Premier Energy Training Workshop  
and Trade Show for Federal Agencies

**A River of Energy Solutions**

# Mid Century Modern VS. Energy

**GSA**

Leslie Shepherd, Chief Architect, GSA



# Yale symposium

The forum at Yale was held on December 5, 2000 and was entitled "Buildings of the Great Society:" A Forum on Public Architecture of the 1960's and 1970's



# Modernism



# Modernism checklist

## GSA ELIGIBILITY ASSESSMENT TOOL

BUILDING NAME:	
BUILDING NUMBER:	LOCATION:
NAME OF EVALUATOR:	DATE OF EVALUATION:

CHECK BOX IF YES  
LEAVE BLANK IF NOT APPLICABLE

### CRITERION A

ASSOCIATED WITH EVENTS THAT HAVE MADE A SIGNIFICANT CONTRIBUTION TO THE BROAD PATTERNS OF HISTORY.

#### A1 SIGNIFICANT FEDERAL PROGRAM:

Does it embody the goals of a significant Federal initiative or legislation such as the "Guiding Principles for Federal Architecture" or the Public Buildings Cooperative Use Act?

If yes  Is it an exceptional or seminal example of these goals/programs?

If no  Does it lack a clear connection to Federal programs and initiatives?

#### A2 GSA PHILOSOPHY IN PRACTICE:

Does it reflect a clear link between GSA's core public buildings philosophy and design programs or processes, such as Art-in-Architecture or GSA's architect and engineer selection process?

If yes  Is it an exceptional achievement of the program or process?

If no  Does it ignore these programs or display only modest success in meeting program goals?

#### A3 EMBODIES SOCIAL GOALS:

Does it successfully address significant social goals broadly embraced in the U.S., such as energy efficiency, historic preservation, handicapped access, or eradication of urban blight?

If yes  Is it an exceptionally influential example of Federal construction advancing social goals?

If no  Does it fail to address social goals?

#### A4 PUBLIC BUILDING ICON:

Is it a significant symbol of the Federal presence, an integral part of a city or Federal district master plan, or an architectural or social focal point of a town or city?

If yes  Is it a Federal icon, anchor in a master plan, or hub defining a community or urban center?

If no  Does it have a neutral or negative impact on the Federal image in the community, obscure a city focal point, or detract from the success of a master plan?

#### A5 LOCATION OF HISTORIC ACTION OR EVENT:

Is it the site of an important government action or occasion, or an event significant in state, local or national history?

If yes  Is it the location of an event with a far-reaching impact, such as a landmark Federal court decision?

If no  Does it lack any connection to significant events?

### CRITERION B

ASSOCIATED WITH THE LIVES OF PERSONS SIGNIFICANT IN OUR PAST.

#### B1 SPECIFIC LINK TO FAMOUS PERSON:

Did a significant historical figure, such as a President, major activist, or notorious individual have a particular link to the site?

If yes  Is the connection exceptional or unique with regard to activities or accomplishments for which the individual is famous?

If no  Do important individuals lack a specific, significant link to the site, or is there another property that better represents the life or actions of this person?

CHECK BOX IF YES  
LEAVE BLANK IF NOT APPLICABLE

### CRITERION C

EMBODIES THE DISTINCTIVE CHARACTERISTICS OF A TYPE, PERIOD, OR METHOD OF CONSTRUCTION, OR THAT REPRESENTS THE WORK OF A MASTER, OR THAT POSSESSES HIGH ARTISTIC VALUES, OR THAT REPRESENTS A SIGNIFICANT AND DISTINGUISHABLE ENTITY WHOSE COMPONENTS MAY LACK INDIVIDUAL DISTINCTION.

#### C1 MASTER ARCHITECT:

Is it a formative design in the portfolio of a prominent architect whose work had an important influence on a community, region, state, or country?

If yes  Is it a highly influential or outstanding work of a twentieth-century master architect, whose work had a profound influence on the course of American architecture?

If no  Is it a typical work by an architect of lesser renown or a lesser work in the portfolio of a master architect?

#### C2 EXEMPLIFIES A MODERN-ERA STYLE:

Is it a successful example of a Modern-era style such as Expressionism, Formalism, or Brutalism?

If yes  Is it a unique or exceptional representation of Modern design or a landmark that paved the way for the stylistic shift to Modern Federal architecture?

If no  Is it an undistinguished stylistic spin off, lacking in design quality?

#### C3 FEDERAL PROTOTYPE:

Did it influence other Federal buildings in its technological advances, functionality, framing systems, materials selection, or space design?

If yes  Was it a groundbreaking model or exceptional prototype?

If no  Is it merely representative of the standard technology, materials, and space design of the time?

#### C4 MODEL FOR COST EFFICIENCY, FUNCTIONAL UTILITY:

Did it achieve notable cost efficiency and functional utility?

If yes  Is it a prototype or exceptional model of cost-efficient functionality?

If no  Are its quality and integrity flawed by cost-cutting measures, poor materials, or shoddy workmanship?

#### C5 EMBODIES MODERN DESIGN VALUES:

Does it exemplify the Modernist design philosophy, making effective use of modern materials, components, public artwork, noteworthy landscaping or site design?

If yes  Is it as an outstanding expression of Modernist values, integrating modern materials, components, site-specific public art, a plaza, or landscaping design to achieve a cutting edge architectural effect?

If no  Is it a rote expression of current design philosophy, merely typical for its time, or are materials and components of poor quality, lacking clear integration with an overall architectural design?

#### C6 SIGNIFICANT ENSEMBLE OR DISTRICT:

Is it an integral part of an existing of potential historic district or government complex, tied to the district's defined area(s) and period of significance?

If yes  Is it a focal point in an exceptionally significant district?

If no  Is it a noncontributing element in a potential or designated historic district or building ensemble?

#### C7 INTACT ORIGINAL ARCHITECTURE:

Is it substantially intact with regard to its original architectural design, period of significance, and historic character, preserving its significant qualities of location, design, setting, materials, workmanship, feeling, and association?

If yes  Are interior and exterior significant spaces fully intact as designed, with original materials and features?

If no  Is it substantially altered, missing key features, deteriorated, or no longer exhibiting its original character?

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# 4 Case Studies

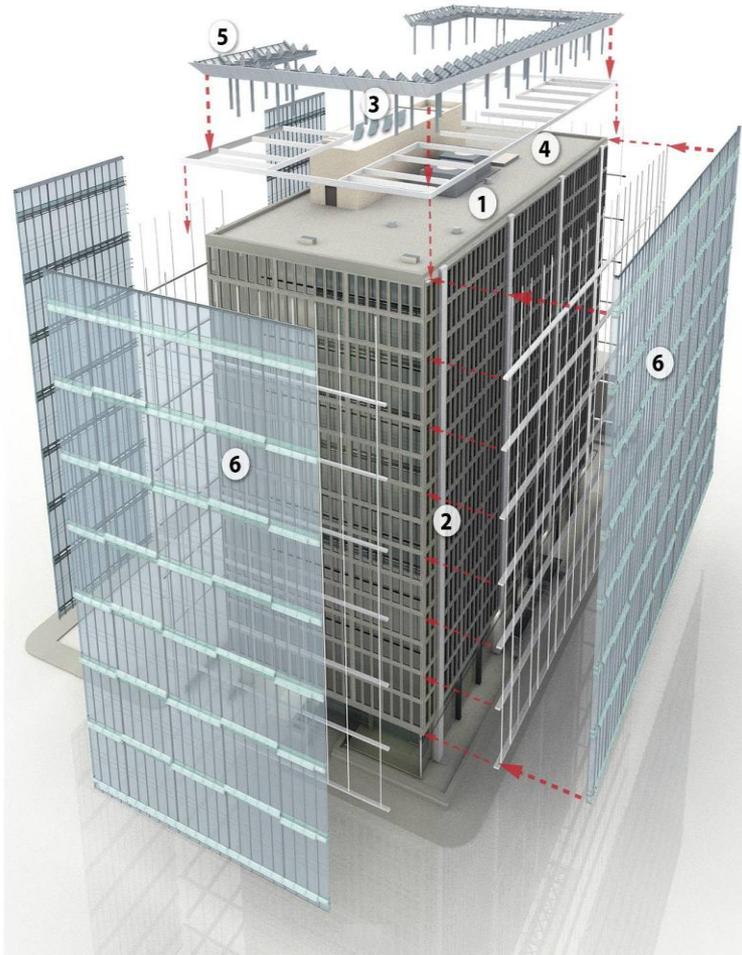
- Peter Rodino
- Celebreeze
- Edith Green Wydell Wyatt
- Byron Rogers

# Peter Rodino Newark, NJ



## ENERGY EFFICIENCY AND MEP ENHANCEMENTS

Peter W. Rodino Federal Building



### Major Energy and Building Systems Enhancements

1. Cooling Tower and Chilled Water System Upgrade
2. Energy Upgrade of Fan Coil Units
3. Solar DHW Heating
4. Rainwater Harvesting
5. Photovoltaic Solar Panels
6. Ventilated Overclad Façade



# Energy consumption

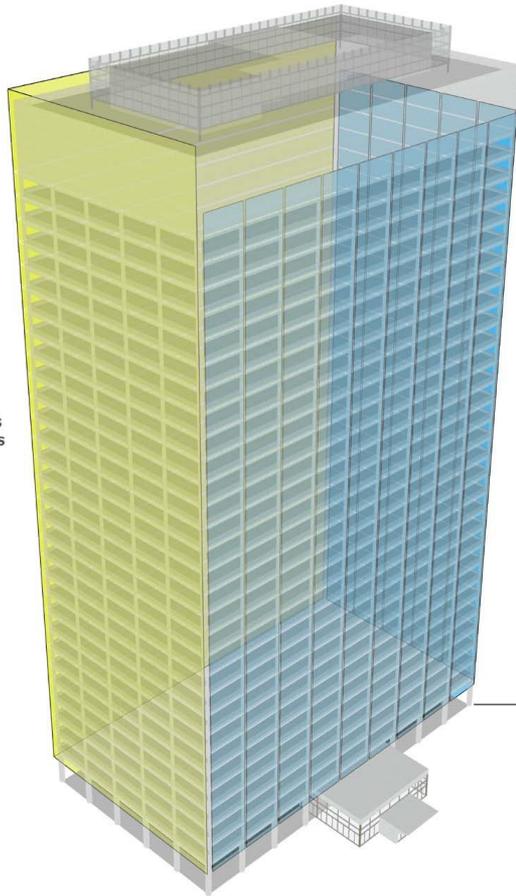
- Will insert graph

# Celebreeze, Cleveland Ohio





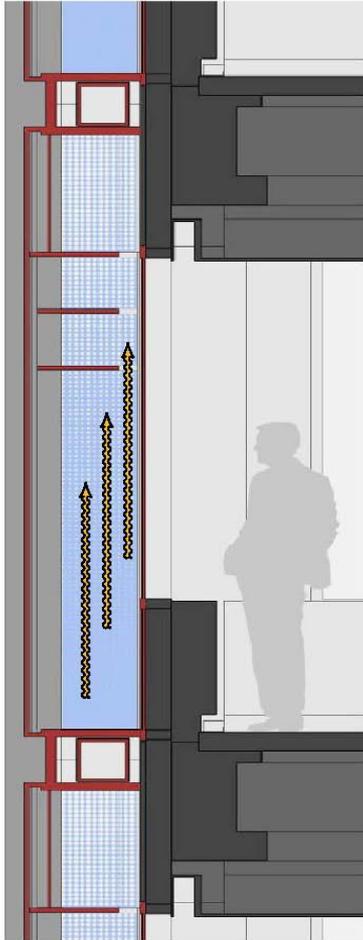
SOUTH-FACING FACADES  
HORIZONTAL SUNSHADES



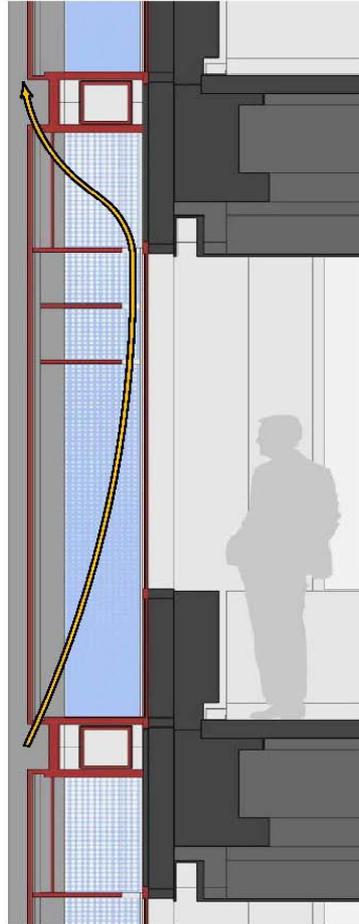
NORTH-FACING FACADES  
VERTICAL FINES



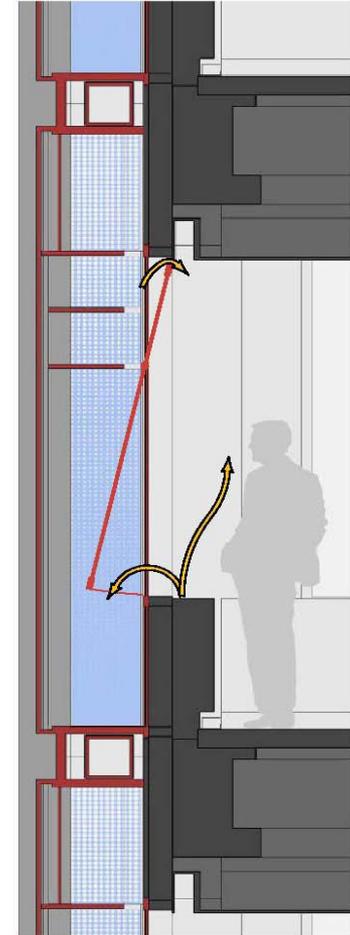
# Double Wall Technology



Sealed double wall diagram

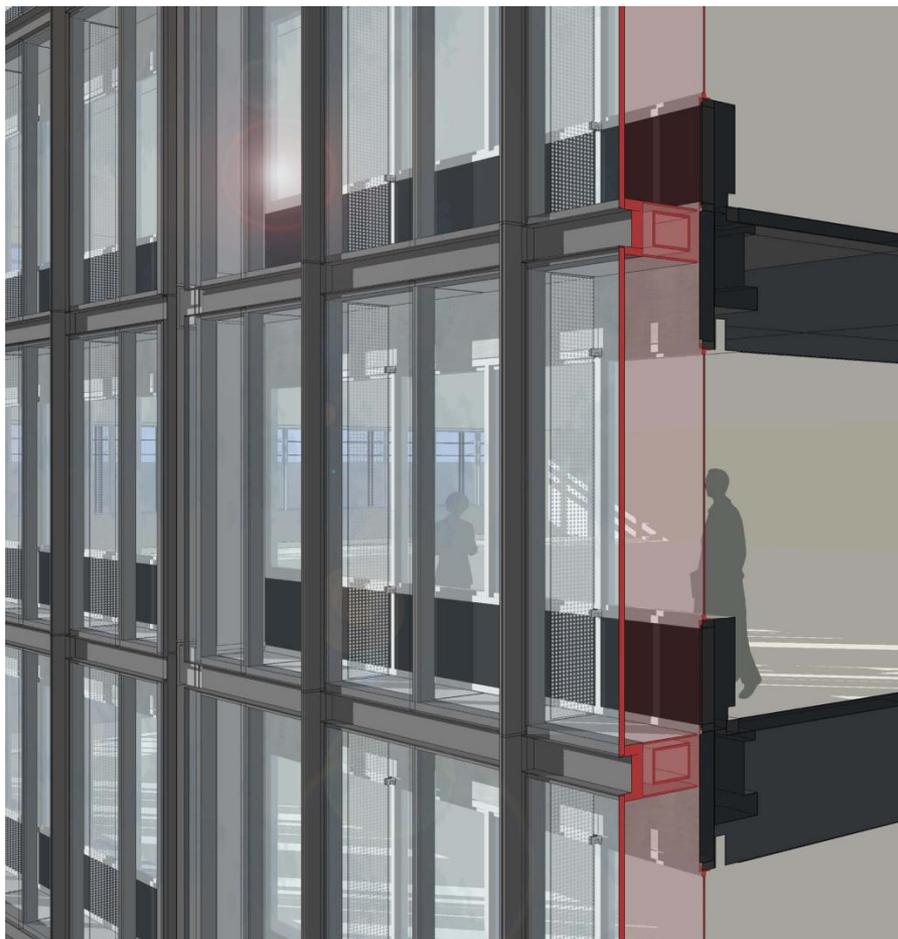


Externally ventilated diagram



Internally ventilated diagram

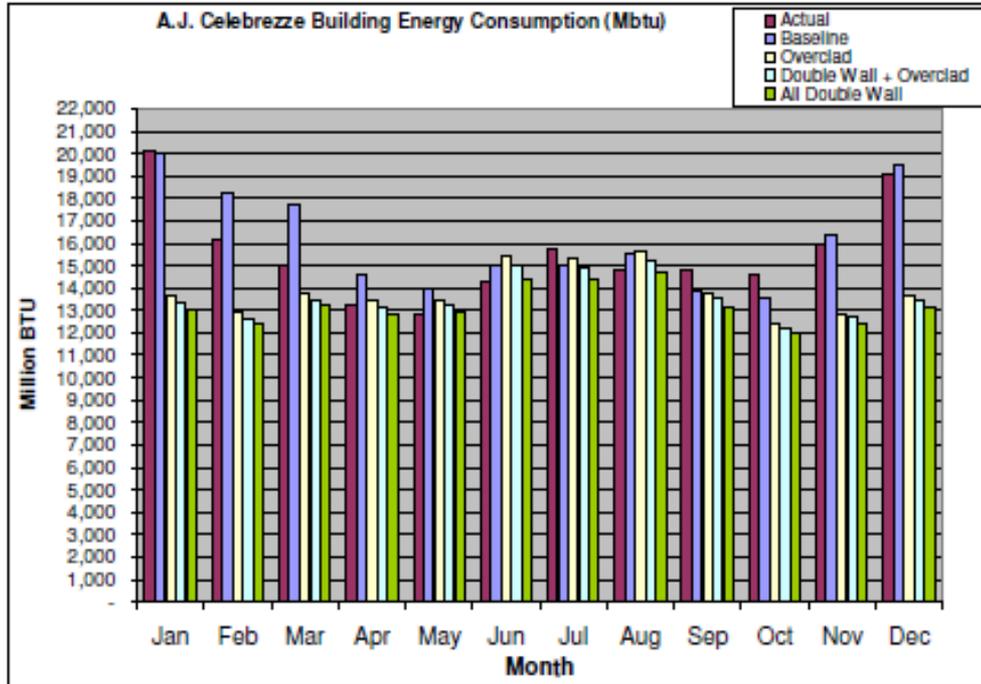
# North and East Wall Cut -Away Section



# North and East Wall- typical bay



# Energy Consumption



# Edith Green Wydell Wyatt, Portland OR

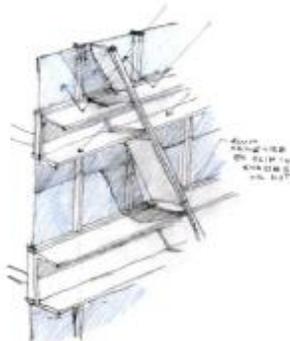


# CONTEXT PLAN

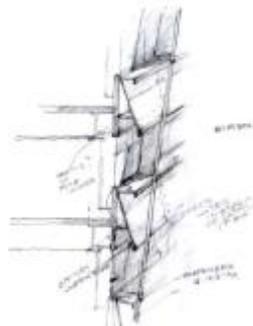


# DESIGN PROCESS

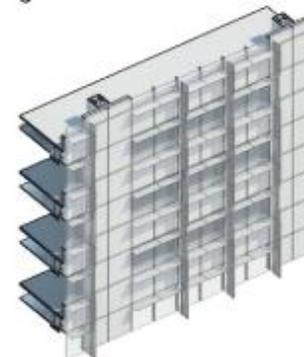
## DEVELOP THE SHADING: EAST + SOUTH FAÇADES



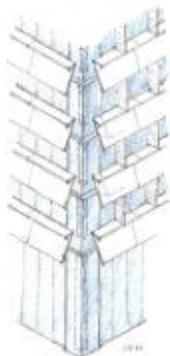
C SCHEME



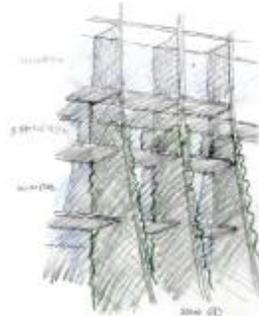
7 SCHEME



EAST FAÇADE MODULE



7 SCHEME



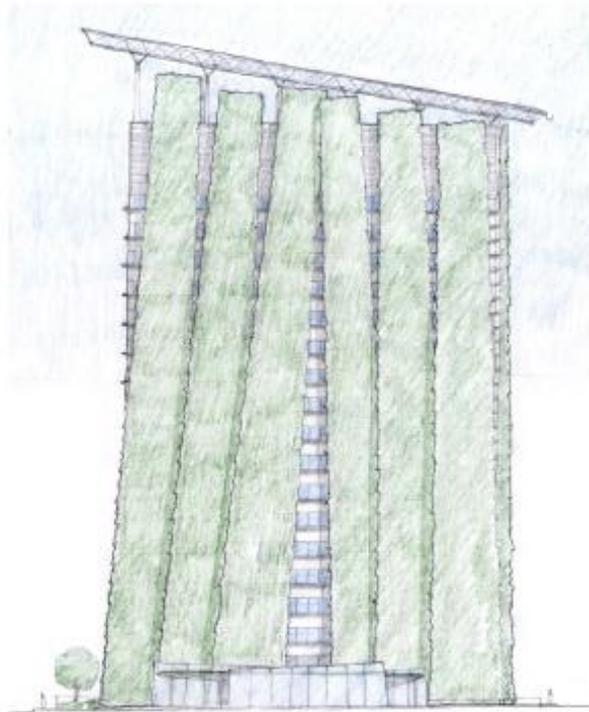
MESH SCHEME



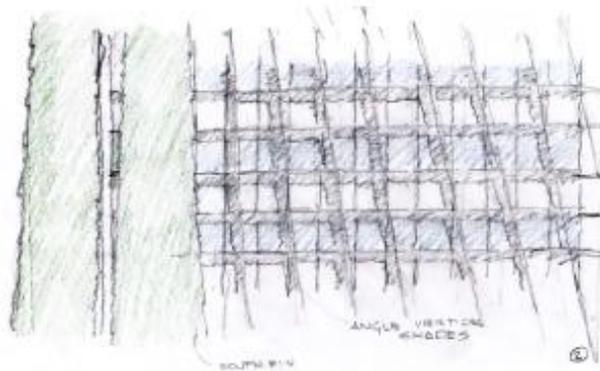
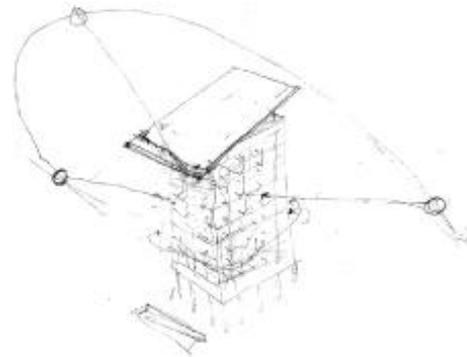
REEDS ON EAST FAÇADE

# DESIGN PROCESS

## 2009 CONCEPT DESIGN



WEST ELEVATION



# DESIGN PROCESS

## EAST PLAZA SECTION



## DESIGN PROCESS PUBLIC SPACES



# Energy consumption

- Will insert graph

# Byron Rogers, Denver Colorado



# BEFORE





# Entry & Lobby Area

## BEFORE



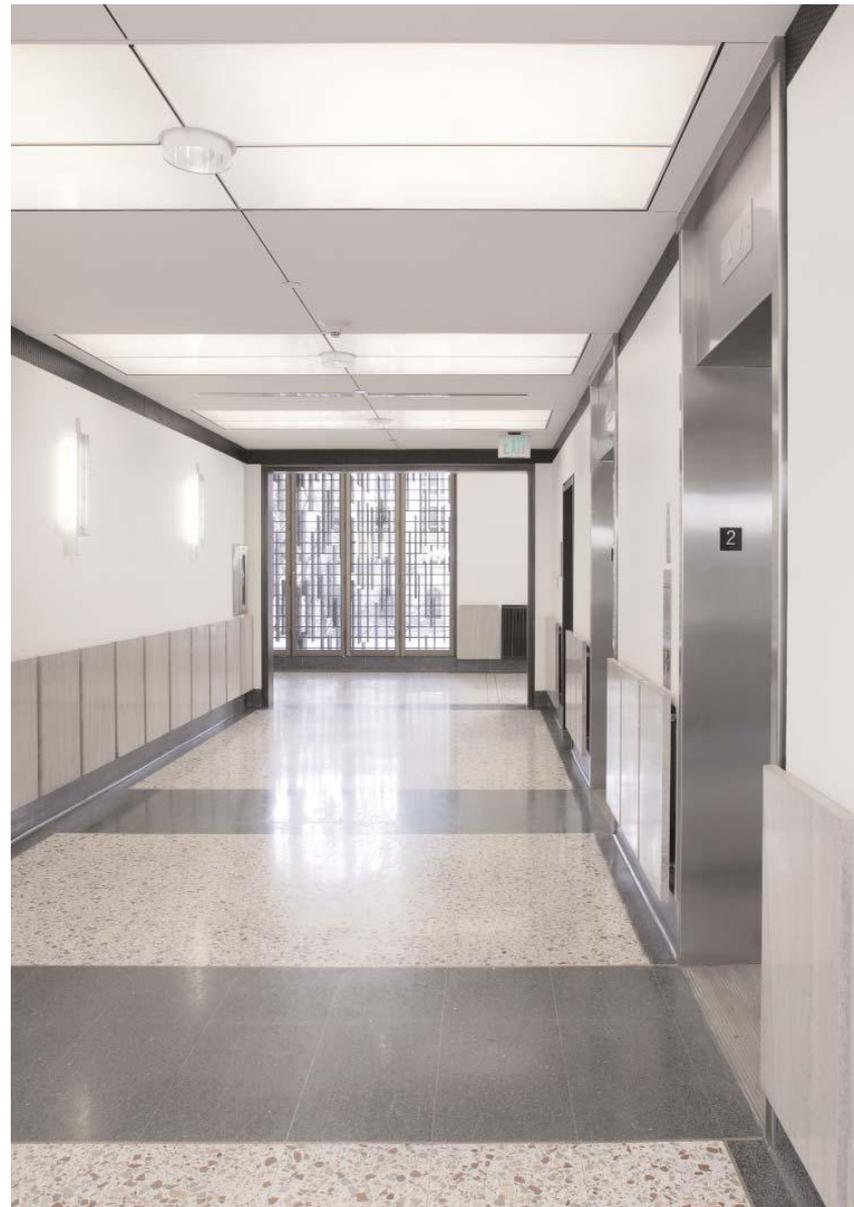
# Rogers Corridor

## BEFORE



# Elevator Lobby

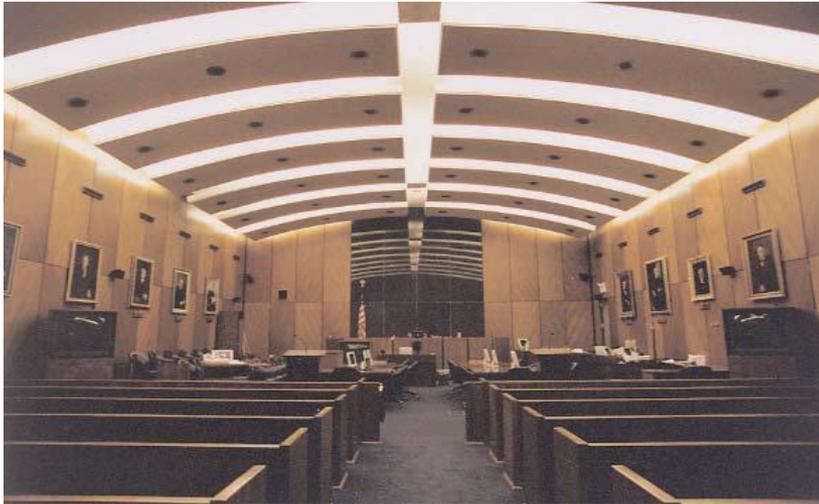
## BEFORE



# Crtrm Red/White

## Crpt

### BEFORE



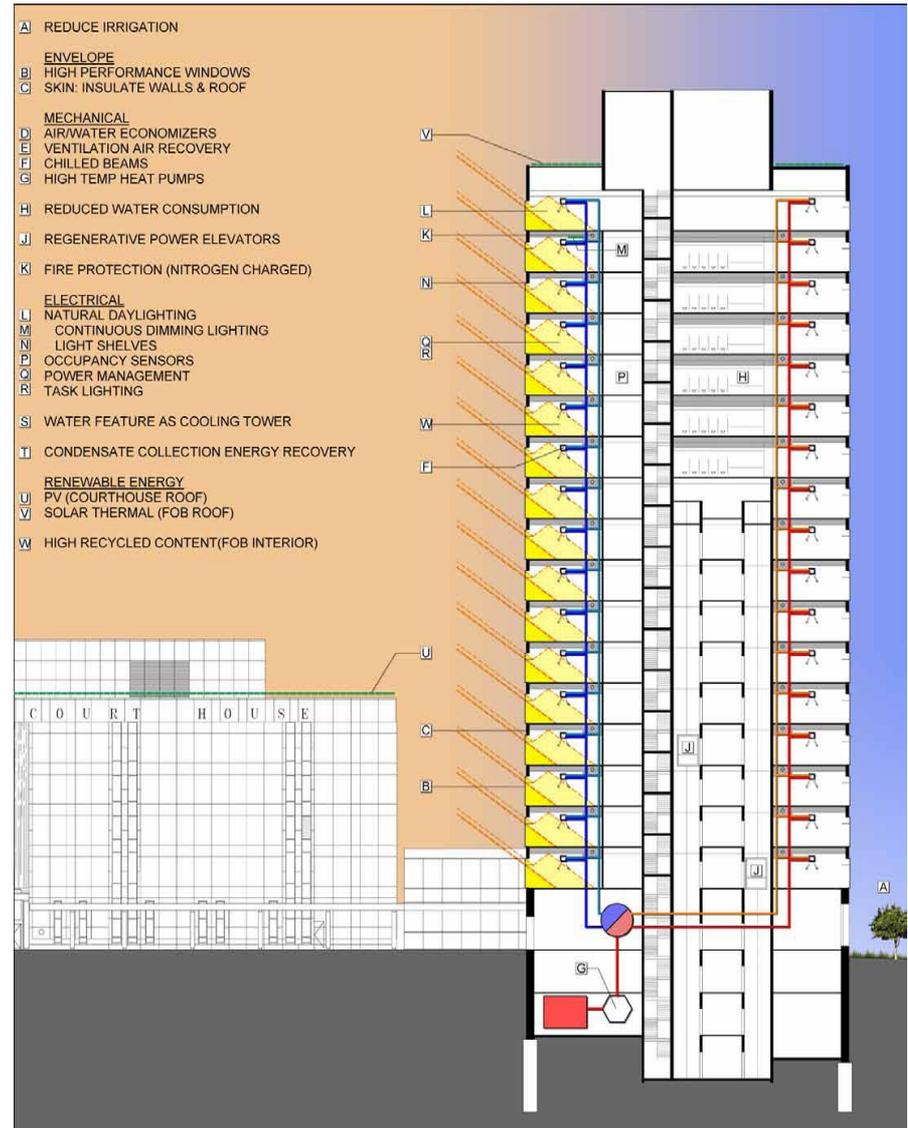
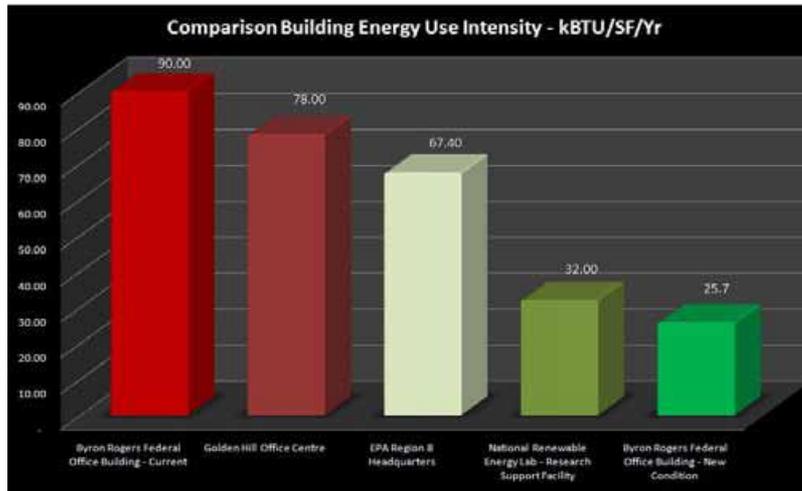
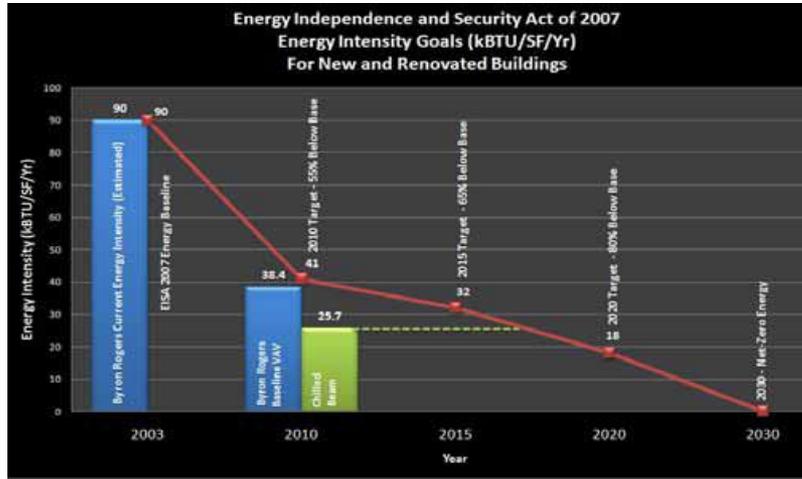


# Library BEFORE



# Building Section

## Energy performance goals



# Energy consumption

- Will insert graphs

# Summary(before)

Will insert additional info

# Summary (after)

Will insert additional info

# Questions???