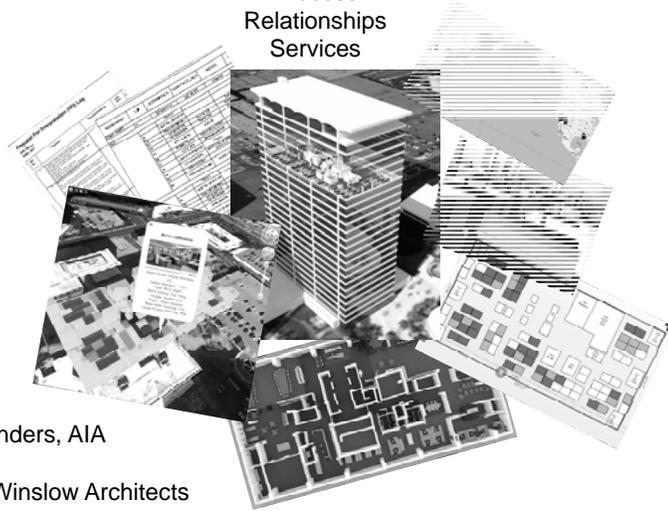


# Architecture in the Age of Information

Design  
Process  
Relationships  
Services



Russ Sanders, AIA  
Director  
Orcutt | Winslow Architects

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# Programming

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# Conceptual Design

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The image shows a software interface for the Onuma Planning System. On the left, a 3D wireframe model of a multi-story building is displayed. On the right, a 3D view shows the same building model placed on a grayscale aerial site plan. A smaller, tilted inset image shows a top-down view of the building's footprint on the site plan. The software interface includes a toolbar at the top with various icons and a window title bar that reads 'J-Scheme Module - SketchUp Pro [SWA]'. The text '3D View' is visible in the top right corner of the right-hand panel.

Onuma Planning System

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Laser Scanning



Image source: Precision 3D

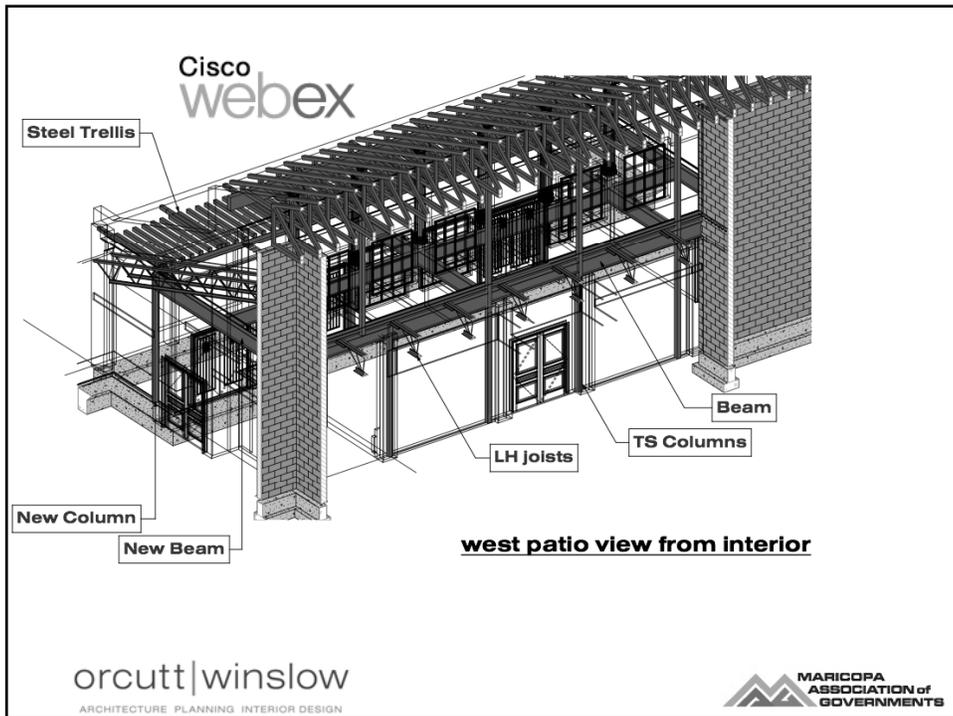
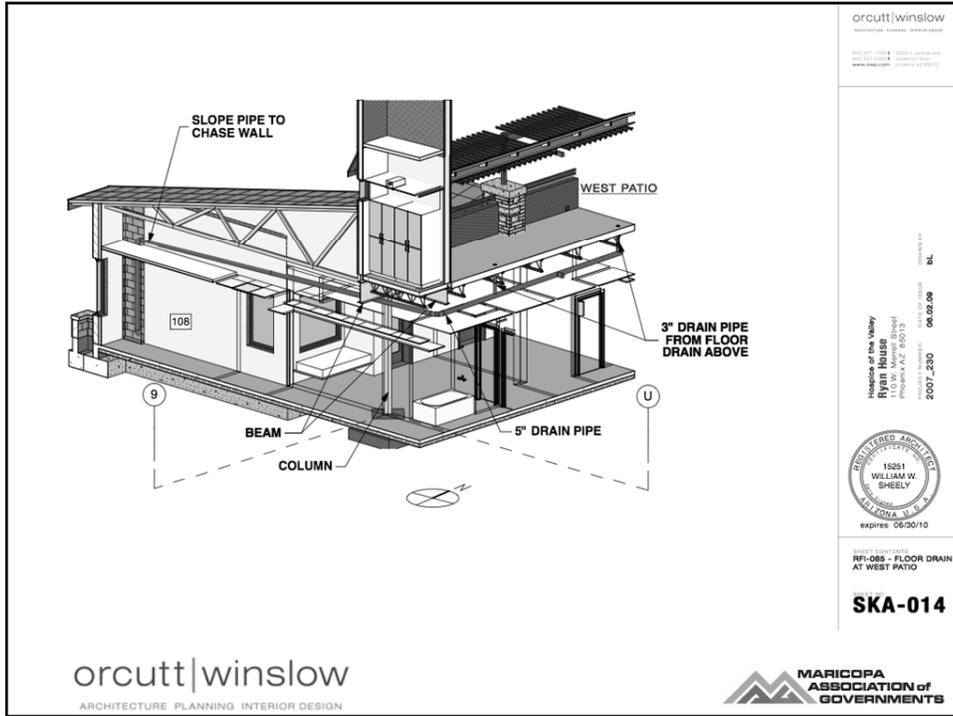
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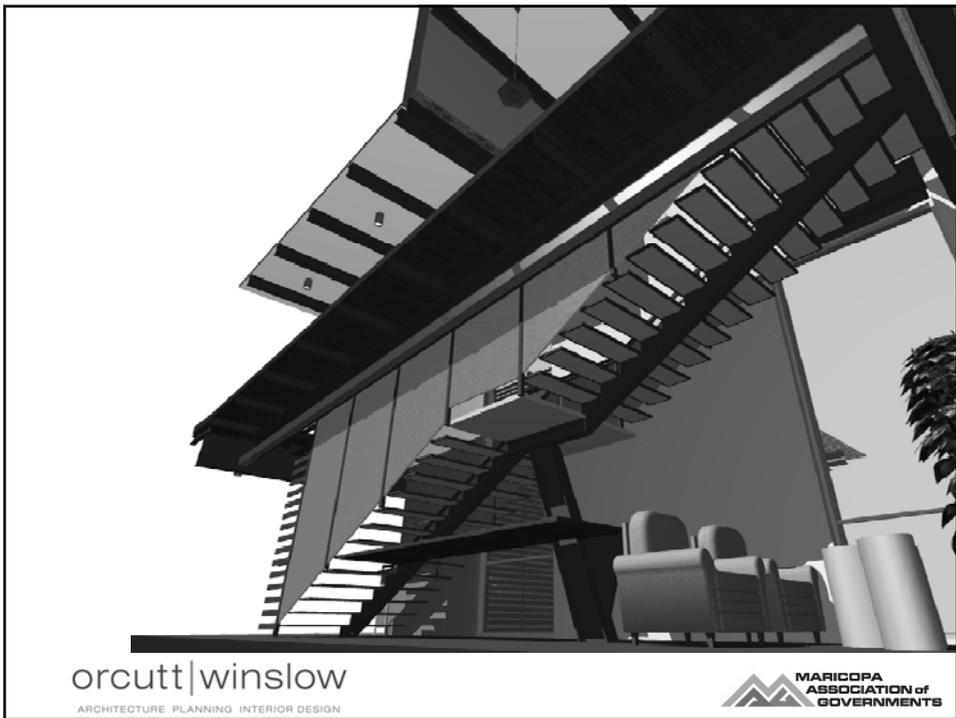


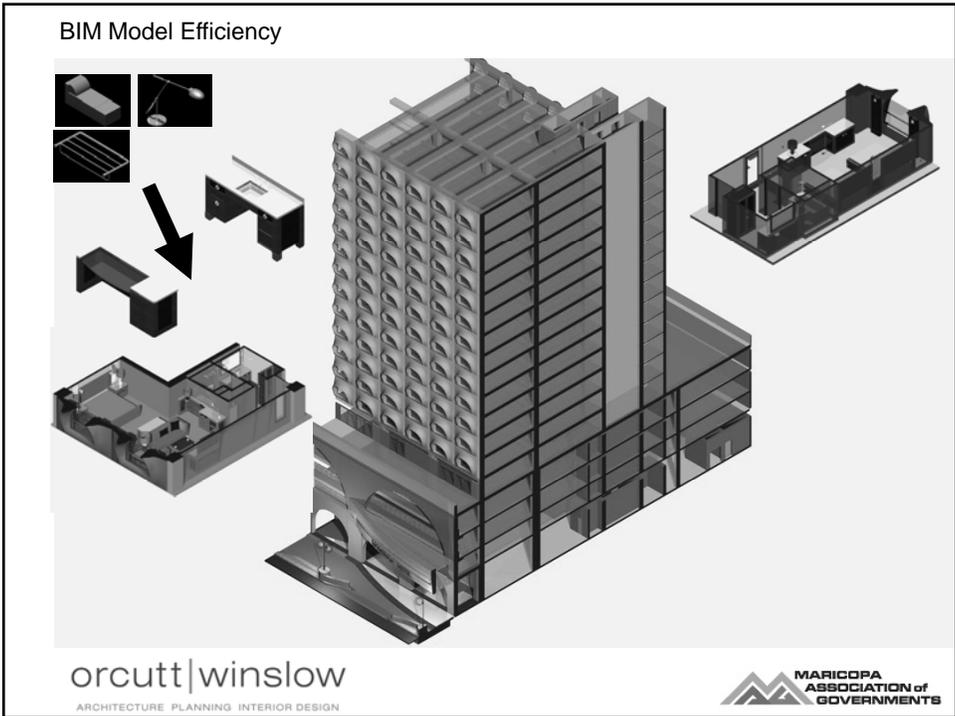
# Design Development

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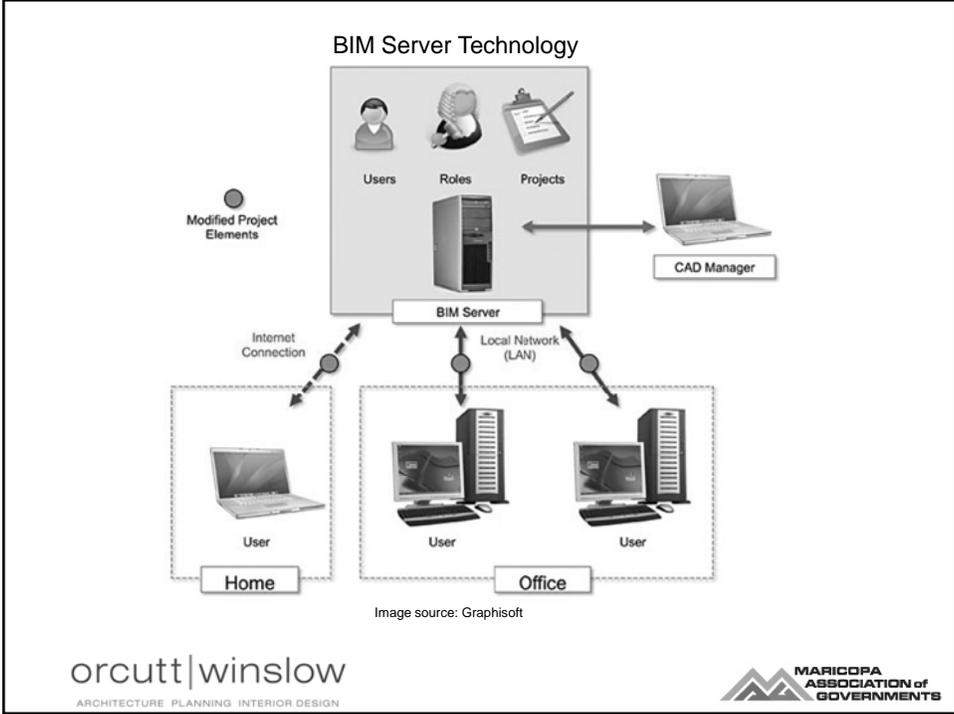


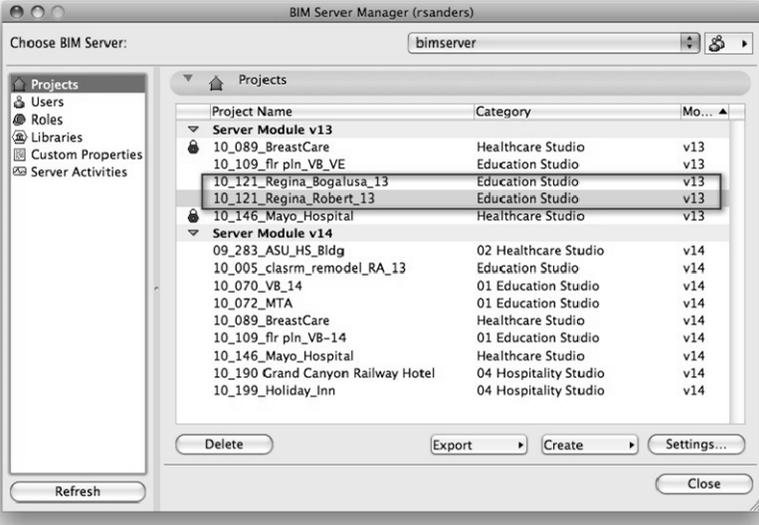




# Collaboration

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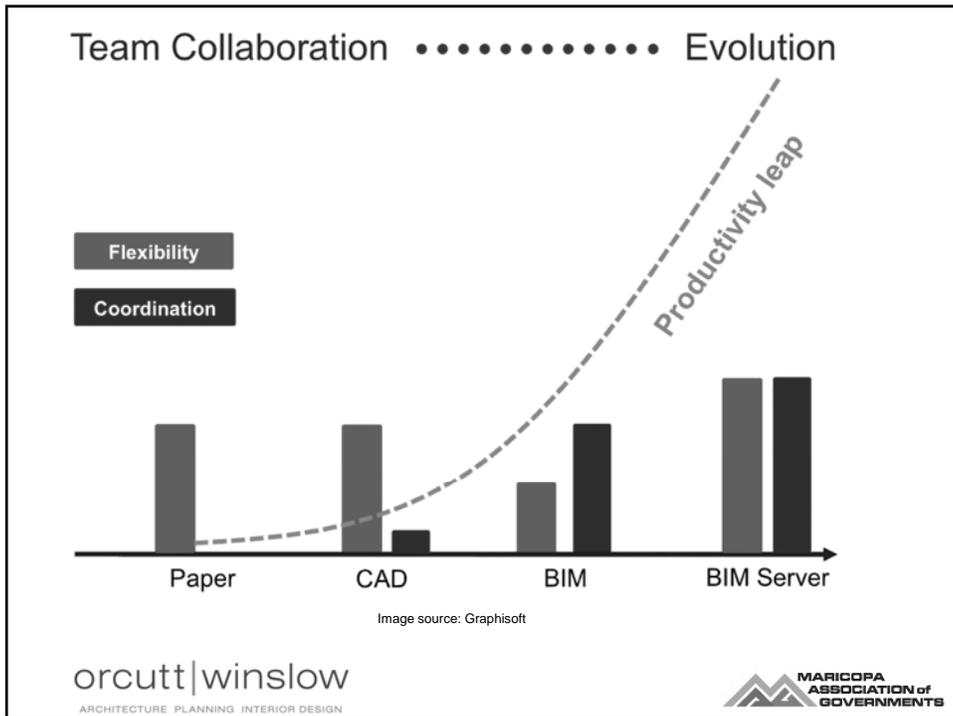




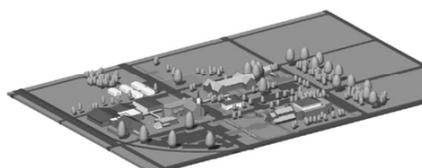
The screenshot shows the 'BIM Server Manager (rsanders)' window. It features a sidebar with navigation options: Projects, Users, Roles, Libraries, Custom Properties, and Server Activities. The main area displays a table of projects under the 'Projects' folder. The table has columns for Project Name, Category, and Mo... (likely Model Number). The projects are organized into two server modules: 'Server Module v13' and 'Server Module v14'. The 'Server Module v13' section includes projects like '10\_089\_BreastCare', '10\_109\_flr pln\_VB\_VE', '10\_121\_Regina\_Bogalusa\_13', '10\_121\_Regina\_Robert\_13', and '10\_146\_Mayo\_Hospital'. The 'Server Module v14' section includes projects like '09\_283\_ASU\_HS\_Bldg', '10\_005\_clasrm\_remodel\_RA\_13', '10\_070\_VB\_14', '10\_072\_MTA', '10\_089\_BreastCare', '10\_109\_flr pln\_VB-14', '10\_146\_Mayo\_Hospital', '10\_190 Grand Canyon Railway Hotel', and '10\_199\_Holiday\_Inn'. At the bottom of the window, there are buttons for 'Delete', 'Export', 'Create', 'Settings...', 'Refresh', and 'Close'.

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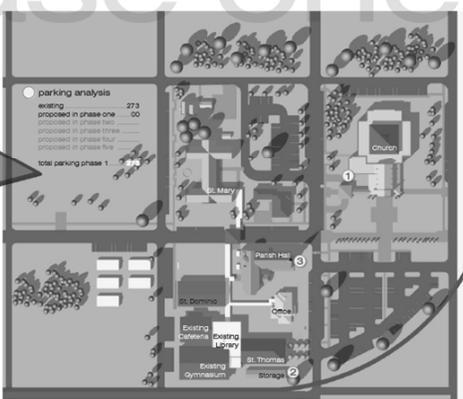
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# phase one



- ① porte cochere and accessible route (in progress)
- ② storage building 1800' storage building
- ③ parish hall remodel phase 1 including first floor restrooms, refinishing wood floor and annex improvements



**parking analysis**

- existing ..... 273
- proposed in phase one ..... 00
- proposed in phase three ..... 00
- proposed in phase four ..... 00
- total parking phase 1 ..... 273

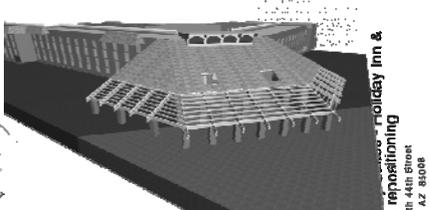
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**Cisco webex**





rehabilitating existing inn & 4th Street AZ State

orcutt|winslow



**Guestroom Fan Calls**  
 These fan calls with integrated heat strips will be required to satisfy the FF. Supply and return grilles need to be replaced. There may be new fresh air intake requirements required to meet current codes. Also, will the new units require additional power? Call to forward proposed fan call model cut sheets to Ruse for electrical engineering verification.

**08.04.10**  
 Fan call units may become vertical units. OPL to provide Ruse with a sketch of where these should be located in a typical room.

**08.11.10**  
 Fan call Vertical units not as cost-effective - Fan calls in ceiling better to be best option. Please direction on clean or remove from OPL - Includes in drawing sketch with detail to WEED today. WEED has preliminary costs associated with fan call replacement (include \$1,000 for 400 cfm units needed). Includes during to remove but does not include with WEED to ask Mechanical subcontractor about electric strip heaters or gas unit in place of ceiling.

**08.18.10**  
 Ruse talks with City of Phoenix Mechanical Plan reviewer John Bauer who said electric strip heatboard heat would be ok. Electrical Plan Reviewer Chuck Dwyer also said it would be ok. Awaiting call from Phoenix Fire Reviewer Mike Beer to confirm there are no fire code issues.

**08.18.10**  
 OPL / 08.18.11  
 Mchale / 08.12.10  
 WEED 08.18.10

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# BIM Analysis

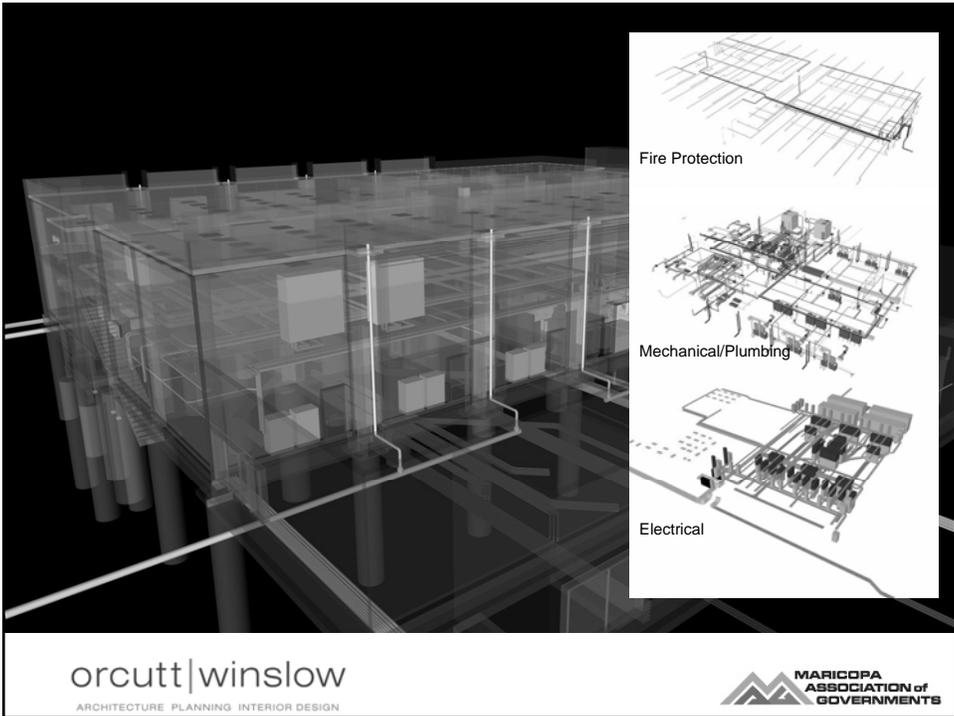
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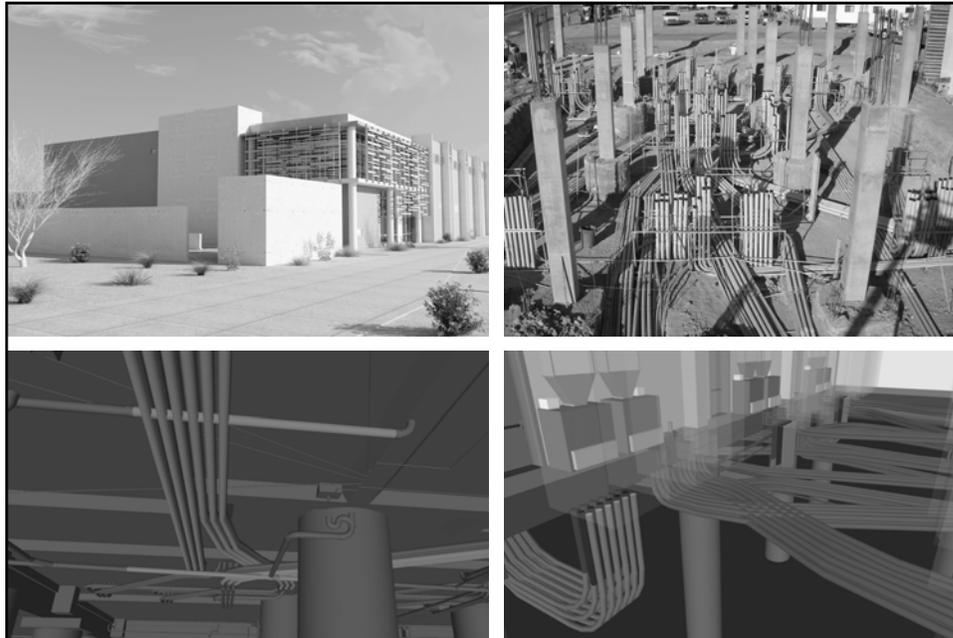


REGULARLY OCCUPIED SPACES = 13,626 SQFT  
SPACES WITH VIEWS TO THE OUTDOORS = 12,882 SQFT  
12,882 / 13,626 SQFT = 94%

Item	Description	Severity
1	Room 101: Ceiling height is 10' 0" which is less than the required 10' 6" for a 10' 0" ceiling. The room is 10' 0" x 10' 0" x 10' 0".	Warning
2	Room 102: Ceiling height is 10' 0" which is less than the required 10' 6" for a 10' 0" ceiling. The room is 10' 0" x 10' 0" x 10' 0".	Warning
3	Room 103: Ceiling height is 10' 0" which is less than the required 10' 6" for a 10' 0" ceiling. The room is 10' 0" x 10' 0" x 10' 0".	Warning
4	Room 104: Ceiling height is 10' 0" which is less than the required 10' 6" for a 10' 0" ceiling. The room is 10' 0" x 10' 0" x 10' 0".	Warning
5	Room 105: Ceiling height is 10' 0" which is less than the required 10' 6" for a 10' 0" ceiling. The room is 10' 0" x 10' 0" x 10' 0".	Warning

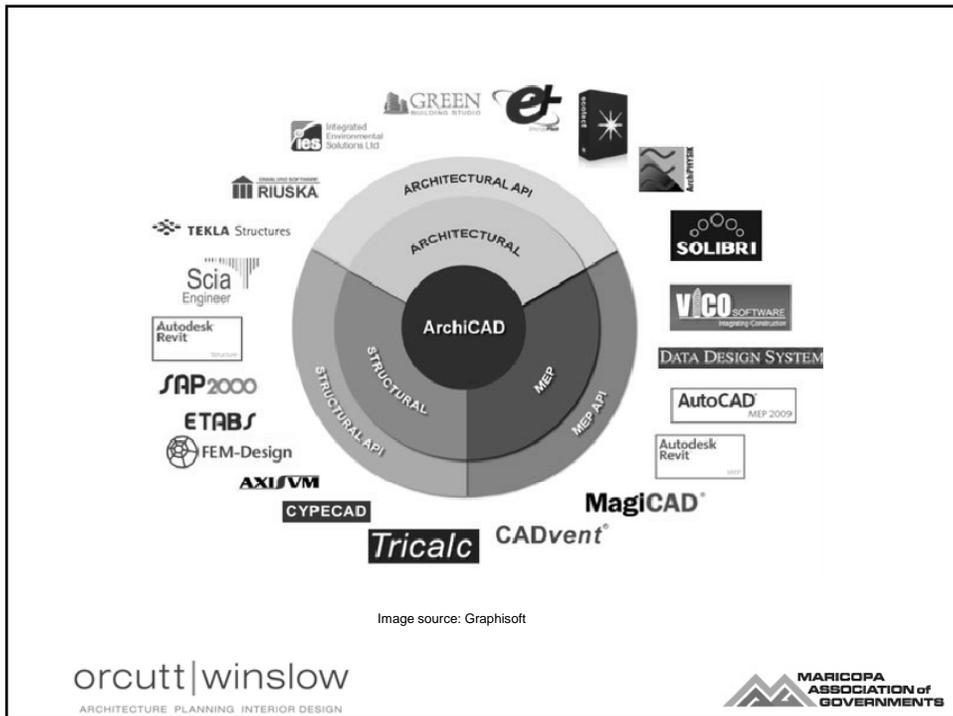
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Architectural API  
ARCHITECTURAL  
ArchiCAD  
STRUCTURAL  
STRUCTURAL API  
MEP  
MEP API  
MAGI  
SOLIBRI  
VICO SOFTWARE  
DATA DESIGN SYSTEM  
AutoCAD  
MEP 2009  
Autodesk  
Revit  
2009  
MagiCAD®  
Tricalc CADvent®

Image source: Graphisoft

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# Reports

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**VP Office**

Room Name: VP Office  
 Category: Faculty/Staff Area  
 Function: Private Office for the VP of Student Services

**Detailed Room Requirements**

Programmed Quantity:	2
Programmed Area:	286 sqft
Total Programmed Area:	560 sqft

**CONTRACTS**

DQ	1	Second Floor	457
DQ	1	Second Floor	282
DQ	1	Second Floor	324
DQ	1	Second Floor	304
DQ	1	Second Floor	322
DQ	1	Second Floor	376
DQ	1	Second Floor	387
DQ	1	Second Floor	388
DQ	1	Second Floor	389
DQ	1	Second Floor	390
DQ	1	Second Floor	391
DQ	1	Second Floor	392
DQ	1	Second Floor	393
DQ	1	Second Floor	394
DQ	1	Second Floor	395
DQ	1	Second Floor	396
DQ	1	Second Floor	397
DQ	1	Second Floor	398
DQ	1	Second Floor	399
DQ	1	Second Floor	400

**USE**

ACCESS: Limited to single user and visitors  
 Security Req. cat. 1  
 Min. door open: 15 sec  
 Normal building

**SECURITY**

Door Equip: Aligned  
 Alarm: No

**MECHANICAL**

Ventilation Requirements: 2.5 CFM  
 Control: Indirect  
 Design Humidity: 50%  
 Special Requirements: none

**PLUMBING**

Plumbing Required: NO

**ELECTRICAL**

Power: Other  
 Data: Other  
 Phone: Other  
 Other: Other

**HEATING**

Lighting Type: Fluorescent  
 Task Light: Required @ all work surfaces  
 Room Level: Other  
 Controls: Other

**NOTES:**

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# Presentation

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## Design Validation



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RESIDENTIAL HIGHRISE

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# Construction Documents

"Traditional"

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**24 GA. PREFINISHED CAP FLASHING.**  
 SHIM SPACE TOP OF FASCIA (UNLESS TO MATCH TOP OF MASONRY PARAPET BEYOND).  
 24 GA. PREFINISHED CONCEALED SEAM PANELS.  
 2X NAILER ATTACH TO MASONRY & DECK EDGE ANGLE.  
 CONTINUOUS CLEAR.  
 5/8" PLYWOOD GUTTER SUPPORT.  
 3/8" 20 GA. CSJ TRACK & SLIDE 1/2" 2" FOR FASCIA SUPPORT.  
 ANGLE AND ATTACHMENT PER STRUCTURAL.  
 3/8" CSJ 20 GA. 1/2" 2" O.C.  
 CONTINUOUS 3/8" THICK STEEL WITH TUBE STEEL BEAMS/RIEBERS.

**4A WINDOW/HEAD @ DECK**  
**4B WALL PANEL @ SIDEWALK**  
**4C ENTRY CANOPY RAKE EDGE**  
**4D DRIP EDGE @ LOW ROOF**  
**5A MECH. SCR. TERMINATION**  
**5B DOOR HEAD SUPPORT**  
**5C DRIP EDGE/OFFSET**  
**5D GYM CONCEALED GUTTER**  
**5E MECH. SCREEN TRANSITION**

**GUTTER DETAIL @ GYM**  
 FASCIA FRAMING @ NON HSS LOCATION

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Valley View Elem. Gym Addition  
 8220 S. 7th Avenue, Phoenix, AZ 85040  
 kiva® 09-3601

**Towerway Campus Phase 1**  
1000 Towerway Campus Phase 1  
Phoenix, Arizona 85004

**4 AIR FOIL ROOF**  
**1 CONCRETE WING WALL**

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**A 3D Elevation A**  
**B 3D Elevation B**  
**C 3D Elevation C**

**RECOMMENDATIONS**

**Grand Canyon Railway Hotel**  
Exterior and Roofing Improvements  
233 Grand Canyon Boulevard  
Williams, Arizona 86046

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# Construction

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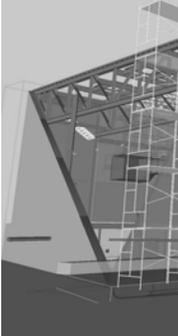


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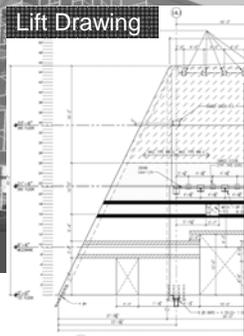
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**Composite Model**



**Lift Drawing**



**Construction**

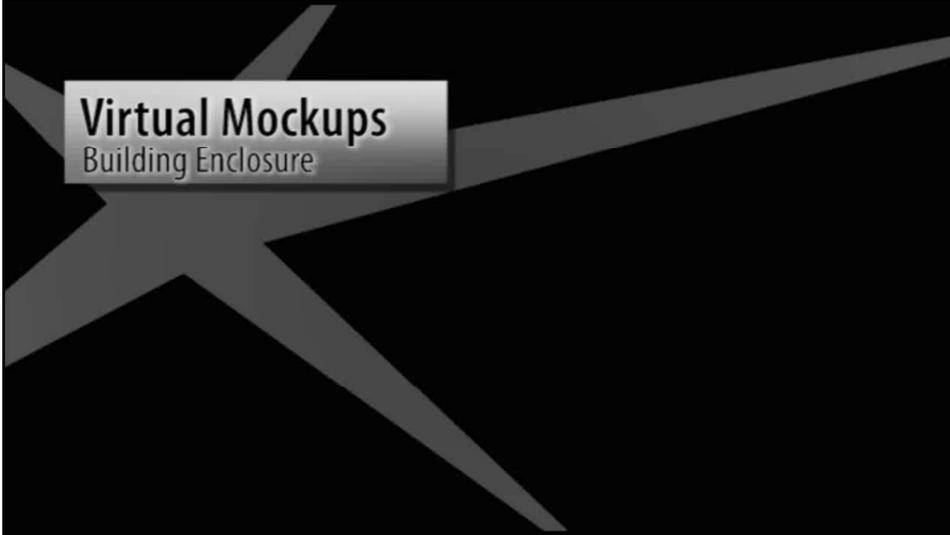


Image source: Mortenson

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**Virtual Mockups**  
Building Enclosure



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