

Susan Johnson

Design Transformation: IFMA Conference May 3, 2019



Design Transformation



Drumright High School
Drumright Historical Society



Valley Central High
Web School



Atrisco Heritage High School
FBT Architects

Global Transformations



War



Riots







Global Warming

USGBC



LEED Scorecard

<div style="margin-bottom: 10px;"> Yes ? No <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input type="checkbox"/> 0 </div> 		<table border="1"> <thead> <tr> <th colspan="2">SUSTAINABLE SITES</th> <th style="text-align: right;">26</th> </tr> </thead> <tbody> <tr> <td>Prereq 1</td> <td>Construction Activity Pollution Prevention</td> <td style="text-align: right;">Required</td> </tr> <tr> <td>Credit 1</td> <td>Site Selection</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 2</td> <td>Development Density and Community Connectivity</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Credit 3</td> <td>Brownfield Redevelopment</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 4.1</td> <td>Alternative Transportation - Public Transportation Access</td> <td style="text-align: right;">6</td> </tr> <tr> <td>Credit 4.2</td> <td>Alternative Transportation - Bicycle Storage and Changing Rooms</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 4.3</td> <td>Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Credit 4.4</td> <td>Alternative Transportation - Parking Capacity</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Credit 5.1</td> <td>Site Development - Protect or Restore Habitat</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 5.2</td> <td>Site Development - Maximize Open Space</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 6.1</td> <td>Stormwater Design - Quantity Control</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 6.2</td> <td>Stormwater Design - Quality Control</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 7.1</td> <td>Heat Island Effect - Nonroof</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 7.2</td> <td>Heat Island Effect - Roof</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Credit 8</td> <td>Light Pollution Reduction</td> <td style="text-align: right;">1</td> </tr> </tbody> </table>	SUSTAINABLE SITES		26	Prereq 1	Construction Activity Pollution Prevention	Required	Credit 1	Site Selection	1	Credit 2	Development Density and Community Connectivity	5	Credit 3	Brownfield Redevelopment	1	Credit 4.1	Alternative Transportation - Public Transportation Access	6	Credit 4.2	Alternative Transportation - Bicycle Storage and Changing Rooms	1	Credit 4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles	3	Credit 4.4	Alternative Transportation - Parking Capacity	2	Credit 5.1	Site Development - Protect or Restore Habitat	1	Credit 5.2	Site Development - Maximize Open Space	1	Credit 6.1	Stormwater Design - Quantity Control	1	Credit 6.2	Stormwater Design - Quality Control	1	Credit 7.1	Heat Island Effect - Nonroof	1	Credit 7.2	Heat Island Effect - Roof	1	Credit 8	Light Pollution Reduction	1
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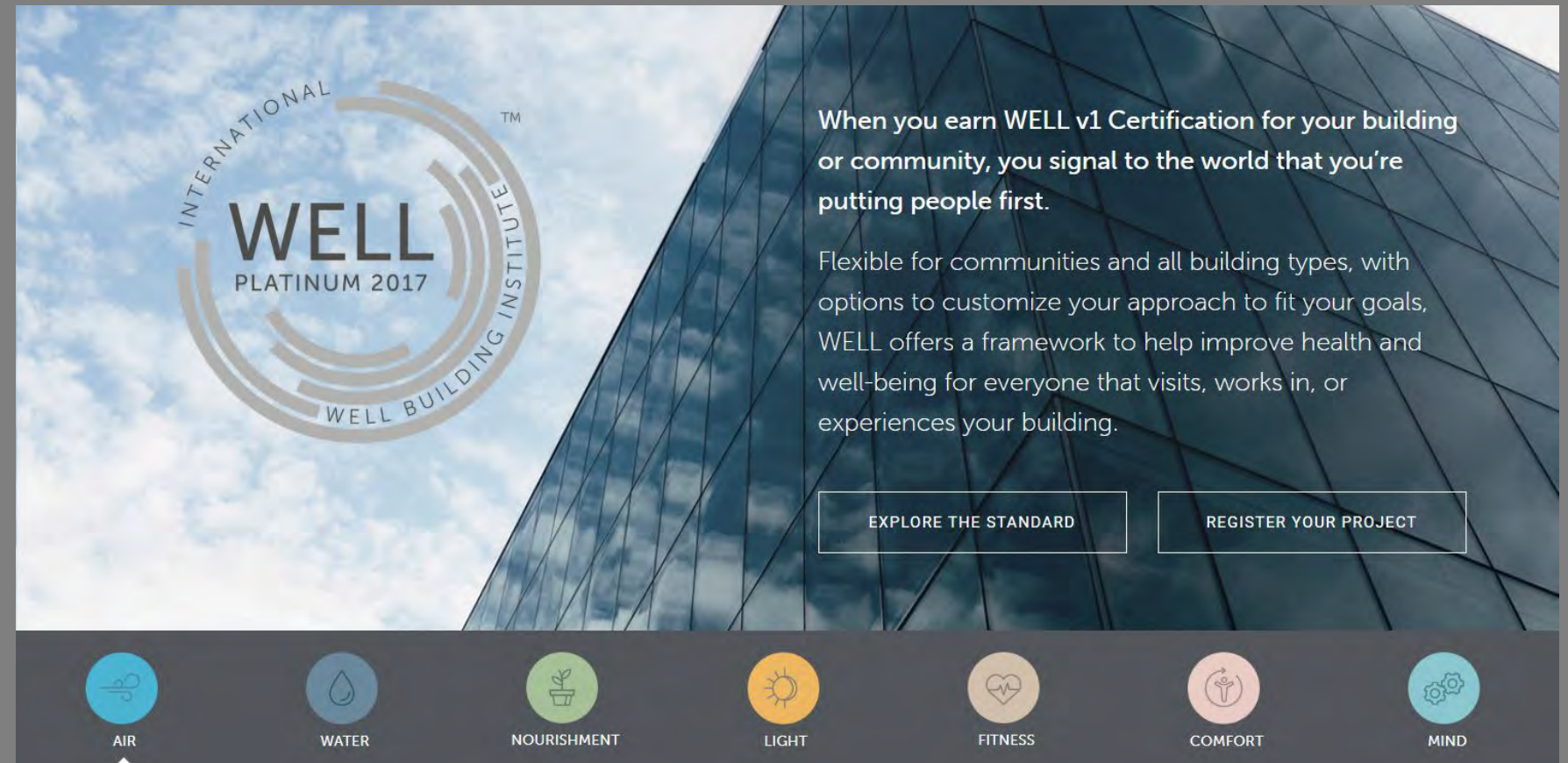
<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div>	Credit 6	Rapidly Renewable Materials	1
<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div>	Credit 7	Certified Wood	1
Yes ? No			
<div> <div>0</div> <div>0</div> <div>0</div> </div>	INDOOR ENVIRONMENTAL QUALITY		15
<div> <div></div> <div></div> </div>	Prereq 1	Minimum Indoor Air Quality Performance	Required
<div> <div></div> <div></div> </div>	Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
<div> <div></div> <div></div> <div></div> </div>	Credit 1	Outdoor Air Delivery Monitoring	1
<div> <div></div> <div></div> <div></div> </div>	Credit 2	Increased Ventilation	1
<div> <div></div> <div></div> <div></div> </div>	Credit 3.1	Construction Indoor Air Quality Management Plan - During Construction	1
<div> <div></div> <div></div> <div></div> </div>	Credit 3.2	Construction Indoor Air Quality Management Plan - Before Occupancy	1
<div> <div></div> <div></div> <div></div> </div>	Credit 4.1	Low-Emitting Materials - Adhesives and Sealants	1
<div> <div></div> <div></div> <div></div> </div>	Credit 4.2	Low-Emitting Materials - Paints and Coatings	1
<div> <div></div> <div></div> <div></div> </div>	Credit 4.3	Low-Emitting Materials - Flooring Systems	1
<div> <div></div> <div></div> <div></div> </div>	Credit 4.4	Low-Emitting Materials - Composite Wood and Agrifiber Products	1
<div> <div></div> <div></div> <div></div> </div>	Credit 5	Indoor Chemical and Pollutant Source Control	1
<div> <div></div> <div></div> <div></div> </div>	Credit 6.1	Controllability of Systems - Lighting	1
<div> <div></div> <div></div> <div></div> </div>	Credit 6.2	Controllability of Systems - Thermal Comfort	1
<div> <div></div> <div></div> <div></div> </div>	Credit 7.1	Thermal Comfort - Design	1
<div> <div></div> <div></div> <div></div> </div>	Credit 7.2	Thermal Comfort - Verification	1
<div> <div></div> <div></div> <div></div> </div>	Credit 8.1	Daylight and Views - Daylight	1
<div> <div></div> <div></div> <div></div> </div>	Credit 8.2	Daylight and Views - Views	1
Yes ? No			
<div> <div>0</div> <div>0</div> <div>0</div> </div>	INNOVATION IN DESIGN		6
<div> <div></div> <div></div> </div>	Credit 1	Innovation in Design	1 to 5
<div> <div></div> <div></div> </div>		Innovation, Design for Active Occupants	1
<div> <div></div> <div></div> </div>		Innovation or Exemplary Performance	1
<div> <div></div> <div></div> </div>		Innovation or Exemplary Performance	1
<div> <div></div> <div></div> </div>		Innovation	1
<div> <div></div> <div></div> </div>		Innovation	1
<div> <div></div> <div></div> </div>	Credit 2	LEED® Accredited Professional	1
Yes ? No			
<div> <div>0</div> <div>0</div> <div>0</div> </div>	REGIONAL PRIORITY		6
<div> <div></div> <div></div> </div>	Credit 1	Regional Priority	1 to 4
<div> <div></div> <div></div> </div>		Regionally Defined Credit SSc2	1
<div> <div></div> <div></div> </div>		Regionally Defined Credit SSc4.1	1
<div> <div></div> <div></div> </div>		Regionally Defined Credit SSc6.1	1
<div> <div></div> <div></div> </div>		Regionally Defined Credit SSc7.1	1
<div> <div></div> <div></div> </div>		Regionally Defined Credit SSc7.2	1
<div> <div></div> <div></div> </div>		Regionally Defined Credit WEc1 (100%)	1
Yes ? No			
<div> <div>0</div> <div>0</div> <div>0</div> </div>	PROJECT TOTALS (Certification Estimates)		110
Certified: 40-49 points Silver: 50-59 points Gold: 60-79 points Platinum: 80+ points			



ICC and ASHRAE



WELL



1900-1945 – MONUMENTAL ARCHITECTURE

SOCIAL



Drumright High School, Drumright,

Drumright Historical Society

OK

1900-1945 – MONUMENTAL ARCHITECTURE



Drumright High School, Drumright,
Drumright Historical Society
OK

1900-1945 – MONUMENTAL ARCHITECTURE



Old Stairs

1900-1945 – MONUMENTAL



COMFORT

1945 - 2000 DEFINISBLE ARCHITECTURE



Valley Central High
School



University of Oklahoma "Blender"

1945 - 2000 – DEFINISBLE ARCHITECTURE

SOCIAL



Civil Defense Drill



Collinwood High School
Riots

1945 - 2000 DEFINISBLE ARCHITECTURE



AIR

1945 - 2000 DEFINISBLE ARCHITECTURE

LIGHTING



1945 - 2000 DEFINABLE ARCHITECTURE

FITNESS



Glorified Elevator

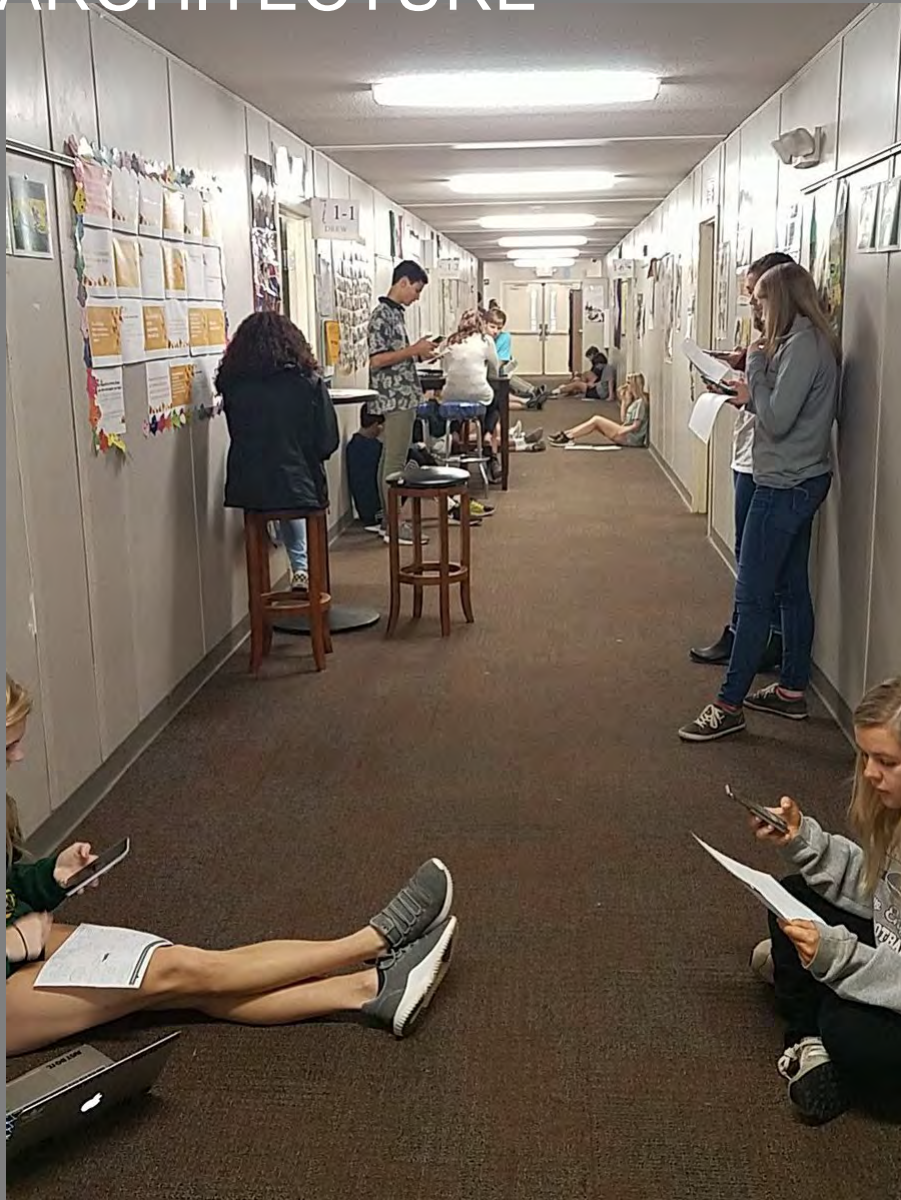


Stairs Hidden



Emergency Only
Signage

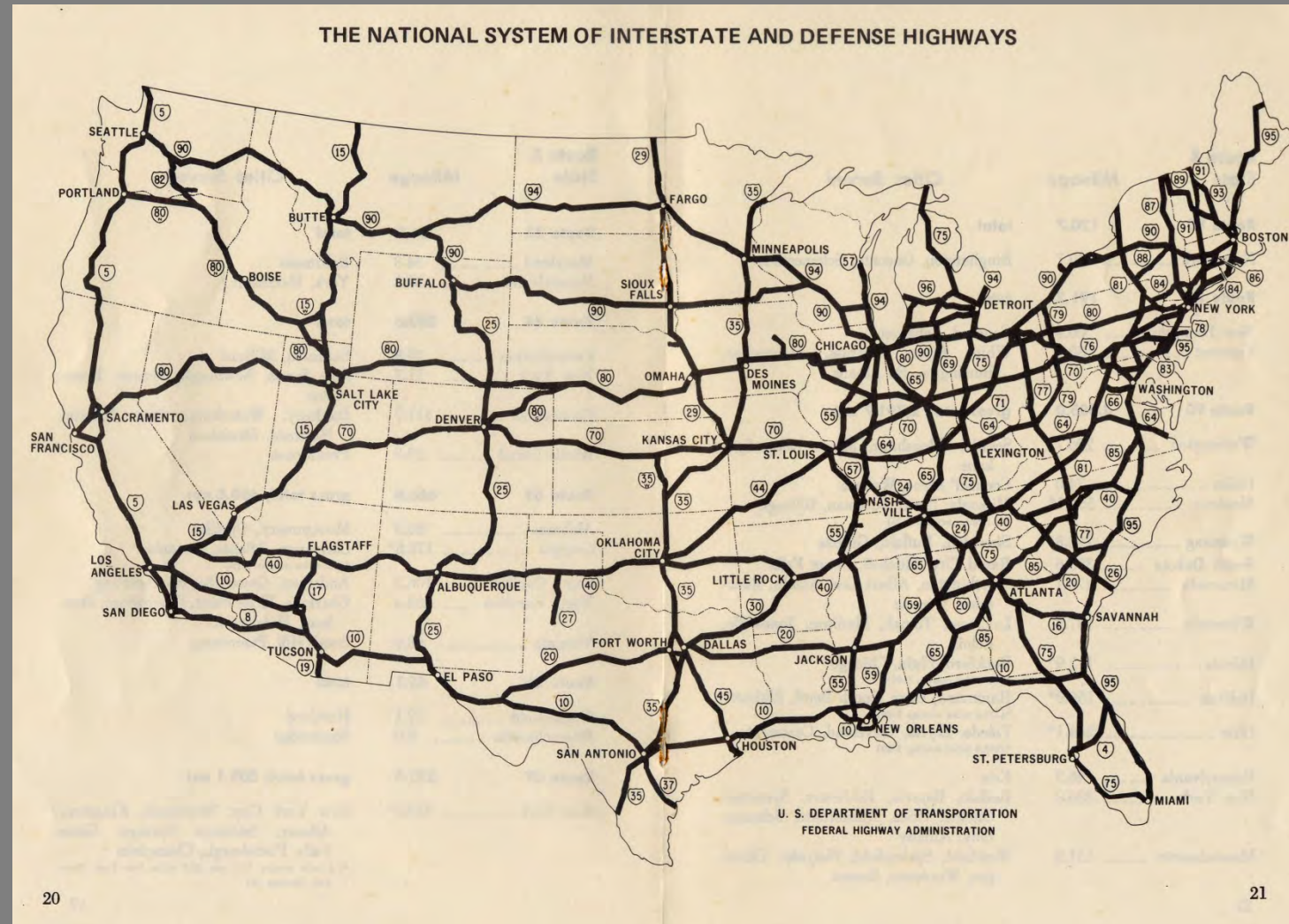
1945 - 2000 DEFINABLE ARCHITECTURE



COMFORT

1945 - 2000 DEFINISBLE ARCHITECTURE

Post WWII Infrastructure



2000 + ENVIRONMENTAL RESPONSIBLE ARCHITECTURE



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

SOCIAL



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

AIR



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE



LIGHTING

2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

FITNESS



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

COMFORT



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

COMFORT



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

BETWEEN



2000 + ENVIRONMENTALLY RESPONSIBLE

LIGHT/AIR



2000 + ENVIRONMENTALLY RESPONSIBLE ARCHITECTURE

FLEXIBLE



2000 + ENVIRONMENTALLY RESPONSIBLE

LIVING



Thank You

