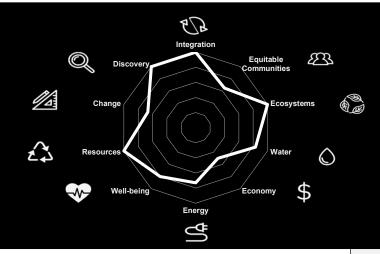
AIA COMMON APP FOR DESIGN EXCELLENCE

AIA COTE Top Ten Toolkit

Enter information into the below fields to the best of your knowledge. Fields that are not applicable or where information is unavailable can be left blank.

The spider chart to the right is a visual representation of your project's performance as it relates to the AIA's Frameworks for Design Excellence (F4DE). The intent is to use it as a comparative tool where you can quickly visualize areas of strength and opportunities for growth or improvement. Higher performing measures will have longer spokes that reach the outermost concentric circles, while measures that have greater potential will align more with the core of the chart.

Please report any bugs via this link: https://forms.gle/XXKfFB1Gg65PAwjo7. All reported issues will be reviewed by the COTE Network, and feedback will be incorporated into the next annual update.



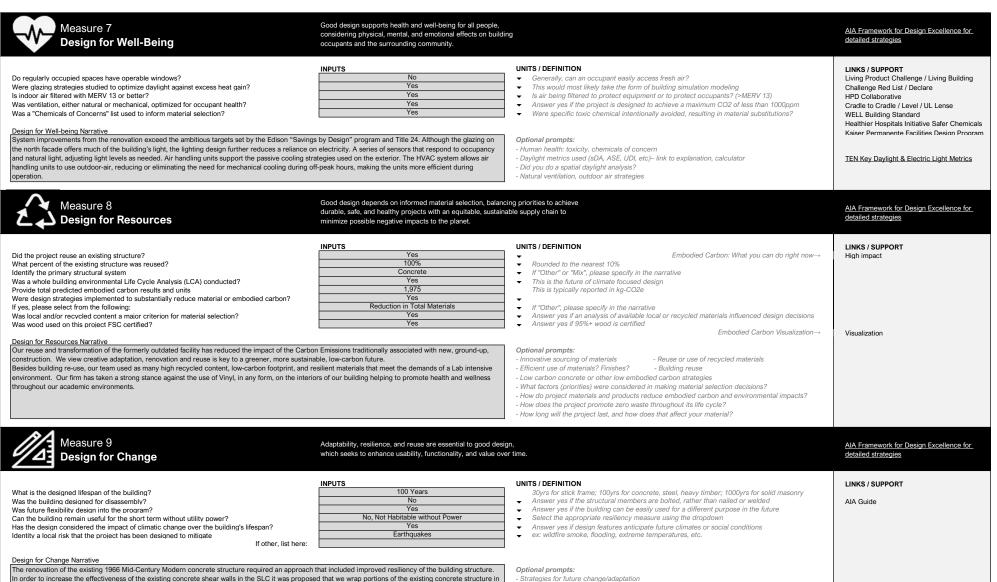
PROJECT INFORMATION Project Name Client Is client to remain confidential?	INPUTS Whittier College Science & Learning Center Whittier College	UNITS / DEFINITION	LINKS / SUPPORT
LOCATION + SIZE Address City State / Province Zip Code / Postal Code Country Climate Zone California Climate Zone (if located in California)	13406 E. Philadelphia St Whittier California 90601 USA 3B CA9	For proj outside the cont'l US + Hawaii, find your US equivalent climat Find your US climat ▼ Find your California climat	e zone here → ASHRAE climate zones
Building use Primary building use Percent of total area Additional building use Percent of total area (if any) Additional building use Percent of total area (if any)	Building Type Percentage of total GSF Laboratory 60% Education - College / University 40% 100% 100%	Find building type defi Energy baselines are auto generated based on th For laboratory buildings, assign 100% of the area to ← This number should equal 100%	e Zero Tool → Zero Tool
Project Scope Number of Stories Total Floor Area Site Area Floor Area Ratio	Renovation 5 88,000 68,000 1.29	GSF Conditioned space + non-conditioned programmed space SF ← This is the intensity of land use (higher is better in a an urban setting)	
COST DATA Permit year Total Construction (Building) Cost Cost per GSF	2015 \$ 37,488,000 \$ 426	USD Do not include land acquisition, soft costs, FFE, etc. USD/GSF This auto calculated field can be overwritten	
USE DATA Annual hours of operation (during normal use) Typical occupancy Total person hours	80 1515 6,302,400	Hours/week For example, 24/7=168, Weekdays 9-5=40, Weekend 9-5=16 People Occupancy during normal use Person-hours/year This calculated value is the building's intensity of use	
2030 COMMITMENT + RATING SYSTEM 2030 Challenge Goal Is the submitting firm a signatory of the AIA 2030 Commitment? Is the project recorded in the AIA 2030 Design Data Exchange (DDx)? Is the project certified with a third party rating system? If so, record the certification(s) and year(s) achieved (not targeted)	70% Yes Yes No	Energy reduction from the Zero Tool baseline (CBECS 2003) V Learn more about the AIA 2030 Comm V Learn more about th V	

v2023.1

	Good design elevates any project, no matter how small, with a thoughtful process that delivers both beauty and function in balance. It is the element that binds all the principles together with a big idea.	
	UNITS / DEFINITION	LINKS / SUPPORT
Project Summary Statement On campus, every student is required to take coursework in the sciences, and the old, mid-century building needed updating to accommodate 21st-century	Describe your project. Emphasize design achievements including design intent and program	
On campus, every subtent is required to take conservor in the sciences, and the one, modestication of medeor updating background at ris-century modes of teaching and learning. Following an intensive feasibility & utilization study, the team proposed seismic and accessibility upgrades, as well as new utility	requirements. Describe specific ways in which you achieved and integrated these goals and	
inclusion teaching and rearing. Following an intensive reasoning a utilization study, the team proposed seising and accessionly upgrades, as well as new during infrastructure and equipment.	requirements and any other distinguishing aspects of your project.	
One design goal was to open up all facades to the abundant natural daylight of Southern California. The north facade allowed for greater exposure and thus the	requirements and any other distinguishing aspects of your project.	
removal of the entire, opaque, pre-cast facade. While the south facade, for structural as well as solar reasons, resulted in more strategic panel removals. This		
new transparency activates spaces that were formerly defined by walls and closed doors. Labs and classrooms, which have been reconfigured, feature at least		
one glass wall, revealing activities inside to passersbys.		
A strategic cut into the existing building slab allows for a spacious, two-story lobby to form its signature "WOW" moment, a new helix-inspired, spiral staircase.		
Open study spaces, strategically located throughout the building, create opportunities for students and faculty to have meaningful interactions beyond the		
Client Impact Statement Prior to the development of this project, another Design Firm had been tasked with re-envisioning a Science & Learning facility for the 21st Century at the College. Their solution was to build a new, larger, facility that proved too cost prohibitive. Our design team, having already looked at the utilization of other campus facilities at the College, was asked to examine this existing building. The team discovered that the building had too many single-use spaces and too few flexible and adaptable spaces. It was determined however that it was possible to renovate instead of building new. With the campus, four guiding 'Visions' were developed; 1) Collaboration - the space had to support interaction and interdisciplinary engagement; 2) Campus Hub - this was a space for all students; 3) Showcase Science – by putting 'science on display' they would make the sciences more accessible for all students; and 4) the 'Wow' Factor - the facility needs to be dynamic, attracting students and faculty, by transforming the old facility into a symbol of a modern institution of learning. The transformation focused on flexibility and visibility, offering an active, yet supportive, environment, one where 21st-century pedagogies can be	Relate how the project came to be, including the client's goals and what impact the finished project has made on the client, users, and/or the community.	
Statement of Design Excellence By folding sustainability strategies directly into the design conversation, we created a building that integrates environmental efficiencies into a dynamic and user- responsive space. The biggest effect of the renovation of the existing Science and Learning Classroom Building (SLC) was the reduced impact of the Carbon Emissions traditionally associated with new, ground-up, construction. We view creative adaptation, renovation, and reuse as key to a greener, more sustainable, low-carbon future. During the renovation, the opaque pre-cast panels on the north facade were replaced with highly transparent glazing. The glazing dramatically opened the building up to the campus allowing natural light to flood the interior. With the sun now the primary light source for the building, sustainable strategies offset the ensuing solar heat gains. Opening one facade to light while mitigating the heat gains on the other facades created a dramatic transformation without using additional energy. The interior renovation dramatically improved the efficiencies of individual systems to meet or exceed Title 24 code requirements and achieve the ambitious terreste each whore Science whore the Design "Science Provide the emotion abeen approximation panel of the provide of the provide on the complex or the provide on	Describe this project's approach to sustainability through design. How does the project use architectural design to benefit the occupants, community, and planet. For example, when outdoor temperatures are extreme and air quality is poor due to pollution or wildfire smoke, how does the project conserve energy and protect the occupants? (This question addresses real impact. No fluff.)	

Measure 2 Design for Equitable Communities	Design solutions affect more than the client and current occup Good design positively impacts future occupants and the large		AIA Framework for Design Excellence for detailed strategies
COMMUNITY ENGAGEMENT Community engagement level Community stakeholder narrative An intensive Feasibility & Utilization study resulted in Visioning & Program development that engag guiding 'Visions' were developed; 1) Collaboration - the space had to support interaction and interc for all students, 3) Showcase Science – by putting 'science on display' they would make the science the facility needs to be dynamic, attracting students and faculty, by transforming the old facility into	disciplinary engagement, 2) Campus Hub - this was a space ses more accessible for all students, and 4) the 'Wow' Factor -	UNITS / DEFINITION ✓ Learn more about community engagement → Were notable community engagement efforts part of the process? If so, briefly describe them. For all submittals, describe ways in which the project improves or contributes to the surrounding community or natural landscape.	LINKS / SUPPORT Arnstein's Ladder of Citizen Participation
SOCIAL JUSTICE, EQUITY, DIVERSITY, AND INCLUSION Does the project benefit people who are not directly associated with the project? If so, provide an example: The College requires that every student take coursework in the sciences. The new SLC offers an ar pedagogies can be introduced and explored. Providing access to education within the field of the s professionals in the workplace who are focused on scientific developments. This provides for the g diverse population. With the benefit of broadening perspectives, creating opportunities for greater	Sciences provides opportunities for a great diversity of future reater inclusivity of viewpoints and approaches from a more	-	
MOBILITY AND ACCESS Walk Score Transit Score Bike Score Alternative strategies for remote / rural projects (if applicable): N/A	92 40 62	This link will assign a score (0-100) for non-vehicle transportation opportunities based on the project's address. Report a unique score for walking, biking, and public transit→ Briefly describe design strategies used to limit the negative impacts of vehicular transportation that might not be reflected by the scores above.	Walk Score
NARRATIVE Design for Equitable Communities Narrative Access to education in the sciences has historically been less accessible to women and people of or male students and 69% of the student population identifies as a person of color (BIPOC). An opport the College existed. The concept 'Science on Display' was a successful approach to create greater Science and Learning Classroom Building. This has resulted in measurable growth in the enrollmer Image: Measure 3	tunity, and demand, for greater access to the curriculum at r exposure to science focused classes and labs within the	Optional prompts: - Alternative transportation strategies to decrease dependence on cars - Specific social equity issues addressed - Unique strategies for community outreach	
Design for Ecosystems	Good design mutually benefits human and nonhuman inhabita	ints.	AIA Framework for Design Excellence for detailed strategies
Site Context / Environment Was the site previously developed? Does the landscape design provide habitat for local fauna and pollinators? What percentage of the landscape design is native vegetation? Does the site design align with dark sky standards? Does project comply with recognized bird collision deterrence criteria? If yes, identify the standard or legislation used. Design for Ecosystems Narrative Our reuse of the formerly outdated facility reduced the impact of the Carbon Emissions traditionally a safer and healthier environment for the students and the surrounding community. The building's green roof provides an additional thermal barrier helping reduce energy consumptio fora found across the college. This has also provided a vibrant habitat for the local pollinator popul	on, while the drought-tolerant planting mimics the regional	 UNITS / DEFINITION This will help the jury understand the project's context Building on previously developed sites is generally preferable Answer yes if the images in the design awards submission demonstrate clear design strategies for supporting wildlife Answer yes if all exterior lighting is full cutoff and indoor lighting does not leak onto the site at night Answer yes if you used a standard, i.e. ABC Prescriptive Criteria, LEED Credit; NYC Local Law15, CSA A460; or other from a list of "recommended" or "recommended with reservation" legislation summarized by ABC. Optional prompts: How can the design support the ecological health of its place over time? How can the design help users become more aware and connected with the project's place and regional ecosystem? 	LINKS / SUPPORT Int'l Dark-Sky Association ABC's Bird-Friendly Building Design Existing Ordinances List
While increasing glazing overall, we did develop a custom frit pattern for the north façade increasin Measure 4 Design for Water		- How is the project supporting regional habitat restoration?	AIA Framework for Design Excellence for detailed strategies
	INPUTS	UNITS / DEFINITION	LINKS / SUPPORT

Is stormwater managed on site?	Yes	 Answer yes if design strategies prevent most runoff into municipal sewers or natural waterways 	
Is stormwater managed on site? Is potable water used for irrigation?	No	 Answer yes it design strategies prevent most runon into municipal sewers or natural waterways Projects are encouraged to develop irrigation strategies based on collected or recycled water 	
s potable water used for cooling?	No	 Projects are encouraged to develop Inigation strategies based on conected of recycled water Projects are encouraged to develop HVAC strategies that conserves potable water 	
s grey/blackwater reused on site?	No	 Answer yes if recycled water is reused on site, such as for toilet flushing or irrigation 	
Does the project design meet EPA "Water Sense" goals for indoor plumbing fixtures?	Yes	 Answer yes if indoor fixture flowrates are at least 20% more efficient than code 	
Is rainwater collected and stored on site?	Yes	 Answer yes if collected water offsets potential potable water use 	
Designs for Mister Negerities			
Design for Water Narrative Nothing was implemented beyond the code requirements given the limited site area of this	renovation project.	Does the project incorporate approaches to water conservation that go beyond code requirements? If	
		so, briefly describe them.	
S Measure 5 Design for Economy	Good design adds value for owners, occupants, community, planet, regardless of project size and budget.	and	AIA Framework for Design Excellence for detailed strategies
•			
	INPUTS 58	UNITS / DEFINITION	LINKS / SUPPORT
Building efficiency / right sizing Cost Per GSF	\$ 426	GSF/Occupant Based in the inputs above USD/GSF Reference from Cost Data above	
	φ 425	USD/GSF Reference from Cost Data above	
Describe strategies taken to "right size" the building			
Our design team, having already looked at the Utilization of the other campus facilities, was		Reference the above autogenerated metric to describe efforts taken to "right size" the building	
building with several severely underutilized spaces with too many single use spaces and not			
nodern pedagogy. With this information in hand, the team redistributed and redeveloped ea			
ntensive effort it was determined that it was possible to renovate instead of building new, as	previously proposed by others.		
	N	I	
Does the project address issues of affordability?	No Yes	 If yes, elaborate in the narrative below If ves, elaborate in the narrative below 	
Does the project reduce built area by designing spaces for multiple purposes?	Tes	✓ If yes, elaborate in the harrative below	
Design for Economy Narrative			
One of the primary sustainability drivers for building re-use & renovation on this project was		Optional prompts:	
One of the primary sustainability drivers for building re-use & renovation on this project was environment. The was not only from a land-use perspective but also from the ability to offse	t the carbon emissions associated with new construction. Providing	- Place the cost/GSF number in context	
Design for Economy Narrative One of the primary sustainability drivers for building re-use & renovation on this project was environment. The was not only from a land-use perspective but also from the ability to offse a safer and healthier environment for the student and the surrounding community was a top	t the carbon emissions associated with new construction. Providing goal of campus leadership. Also savings the campus recouped from	- Place the cost/GSF number in context - How does the project provide more with less?	
One of the primary sustainability drivers for building re-use & renovation on this project was environment. The was not only from a land-use perspective but also from the ability to offse	t the carbon emissions associated with new construction. Providing goal of campus leadership. Also savings the campus recouped from	 Place the cost/GSF number in context How does the project provide more with less? Design strategies to get multiple uses out of one space? 	
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In order to increase the effectiveness of the existing concrete shear walls in the SLC it was proposed that we wrap portions of the existing concrete structure in a carbon-reinforced fabric (CFRP). These carbon-reinforced shear walls improve deficiencies in the existing walls including insufficient reinforcement, unconfinement at boundary zones, and the lack of in-plane stiffness, and ductility. This innovative application has extended the buildings life-span and improved its seismic survivability for the future.

- How does the project address future risks and vulnerabilities from social, economic, and environmental change?

How is the project designed for adaptation to anticipate future uses or changing markets?
 How does the project address passive survivability and/or livability?

Measure 10 Design for Discovery	learned from previous projects and gather information to refine the		AIA Framework for Design Excellence for detailed strategies
Was a post occupancy evaluation planned for or will it be conducted on this project? Was an occupant satisfaction survey planned for or will it be conducted on this project? Were improvements made (or will they be made) during occupancy based on findings? Design for Discovery Narrative A formal Post Occupancy Evaluation is scheduled for the fall of 2023, marking 5 years after the b how the building's design and planning has overcome any pedagogical challenges associated wit continued dialogue with the College are these 4 truths 1) up-front Visioning and Goals sets the to solutions 3) enhanced technology promotes greater engagement, and 4) the dedication of space	h the recent Pandemic. What we do know through our ne 2) a preference for flexible furniture over architectural	 UNITS / DEFINITION This is an important strategy for achieving any of the above performance criteria This is an important strategy for understanding and providing for occupants needs Discovery should lead to improvements Optional prompts: Strategies for future change/adaptation Lesson learned - what would you do differently? How did the project's design process foster a long-term relationship between designers, users, and operators to ensure design intentions are realized and the building project performance can improve over time? Was a post occupancy evaluation planned for or conducted on this project? If not, how are the project's performance data and experiential stories shared, even if the findings fall short of the vision? What design strategies promote a sense of discovery and delight? 	LINKS / SUPPORT