



- O1 Who We Are | Ability to Provide Service
- O2 The Fundamentals | *Understanding the Project*
- O3 Our Process | Approach and Method
- O4 Our Value | Why DLR Group?





1,700+ Employee-Owners Education is our passion

Ranked #1

Primary & Secondary
Education Firm In The World

33 Locations *World-Wide*

In-house Integrated Design

Architecture Engineering Interiors Planning

Acoustic Design Audiovisual Systems Design **BOLD Development Management** Services **Experiential Graphic Design** High Performance Design Landscape Architecture Lighting Design Reality Capture Renewables Science+Technology Smart Buildings Sustainability Telecom+Security Systems Design Theater Design



Project Team



Nicole Nichols, AIA

Project Executive/Principal



Mo Arthur, AIA, NCARB
Project Manager



Ian Kilpatrick, AIA, NCARB
K-12 Education Design Expert



Dr. Marilyn Denison, Ed.D

Educational Learning Designer



Aranya Mom, AIA, LEED AP
Project Architect



Mandy Wannen, LEED AP, EDAC

Interior Designer
Kaleidoscope Interior Design



Core Team

Nicole Nichols, AIA

Modupe Arthur, AIA, NCARB

Aranya Mom, AIA, LEED AP

Project Executive/Principal

Project Manager

Architect of Record

lan Kilpatrick, AIA, NCARB K-12 Education Design Expert Marilyn Denison, Ed. D.

Educational Learning Designer

Engineering

Mark Kirby, PE, LEED AP

Jason Scott

Ben Bush, PE Electrical Engineer

Lead Engineer

Mechanical Designer

Luis Bedoya, PE Structural Engineer

BBM CONSULTING

Civi

Civil Engineer

Harris Civil Engineers

Dion Marsham, PE

Team Structure

A Proven Team of K-12

Approach Experts

Education & Reggio Emilia

Specialty Services

Josh Erhart, PLA, ASLA Landscape Architect Mandy Wannen, LEED AP, EDAC, ALEP

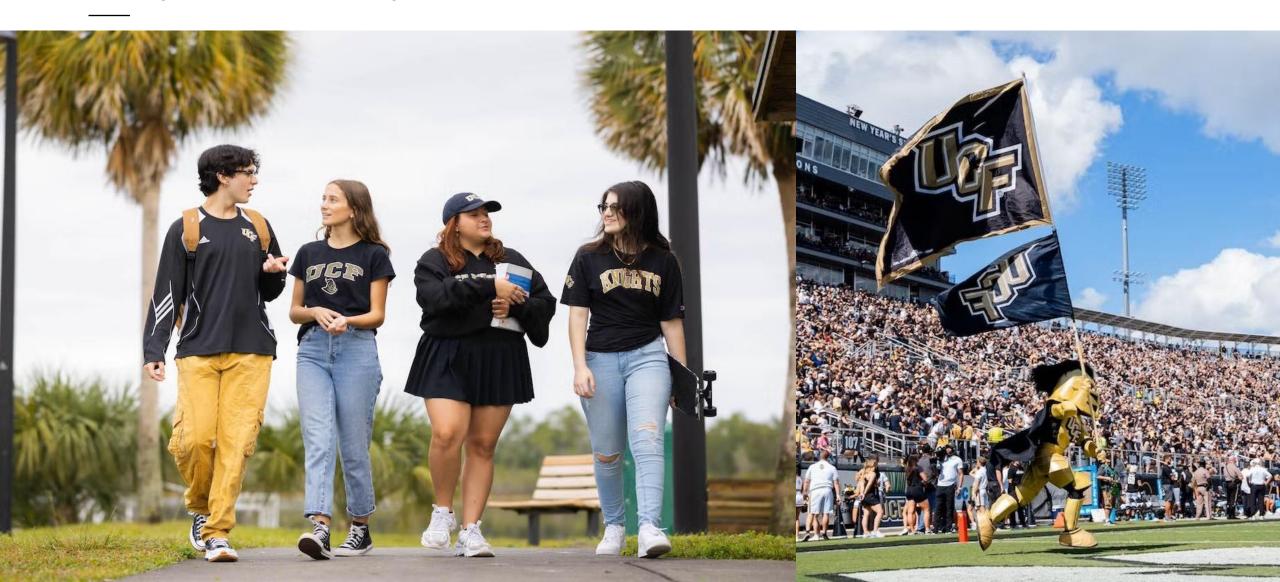
Interior Designer

Kaleidoscope Interior Design

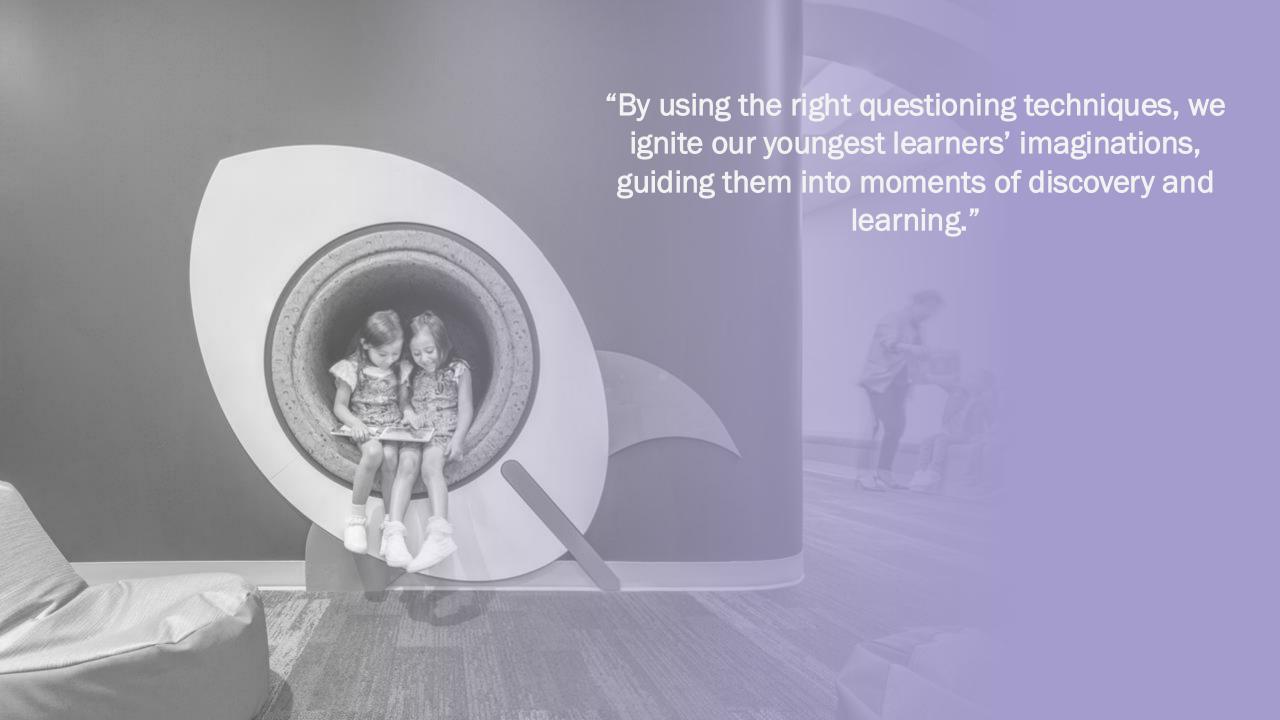
Anita Carlsson Trout

Cost Estimator Carlsson Incorporated

Campus Partnership









PROVOCATION: WHY SHOULD WE CARE ABOUT SCHOOL DESIGN?



What impacts student learning progress?

Individual student variability = 50%

Teacher effectiveness = 30%

Physical learning environment = 16%

Hattie, John. "Visible learning: A synthesis of over 800 meta-analyses relating to achievement." (2008)

Nye, Barbara, Spyros Konstantopoulos, and Larry Hedges. "How large Are Teachers effects?" *Educational Evaluation and Policy Analysis* 26, no. 3 (2004): 237-57

Barrett, Peter, Fay Davies, Yufan Zhang, and Lucinda Barrett. "The impact of classroom design on pupils' learning: Final results of a holistic, multi-level analysis." *Building and Environment* 89 (2015): 118-133.

Conservation Academy (Zoo School)

Henry Doorly Zoo Omaha, NE



Child-centered Learning

Learning through Exploration

Access to Outdoors

Natural Materials

Visibility

School as a Tool

Amazon Playground

Culver City USD Culver City, CA



Inspiring/Fun

Reflective Practice

Curiosity/Play

Connecting with Nature

Collaboration with Families



listen.DESIGN.deliver

Design Process:

- **Engage** team & all stakeholders
- **Envision** and verify your program
- **Evaluate** needs, wants, & goals
- **Experiment** with design solutions
- **Estimate** and verify costs
- Execute the design to realize YOUR vision







360 Engagement Process

ENGAGEMENT, ADVOCACY, BUY-IN, AND DECISION-MAKING

Developing an inclusive and engaged process

Start by asking:

- Who needs a voice in the process?
- Who will have the power and influence to make decisions?

Engagement occurs at all levels – **to achieve buy in.**

Project Leadership Team

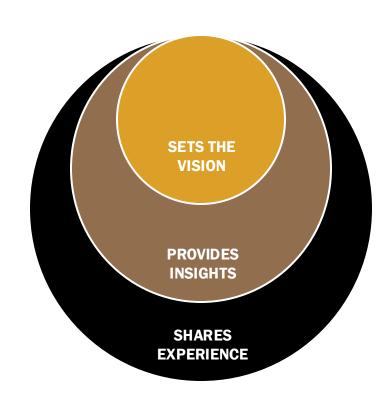
 Leadership and Key Stakeholder Reps

Focus and User Groups

- · Facilities Staff
- Faculty/Staff Focus Group
- College Representatives
- Others to fit your priorities

Broad Engagement

- Students
- Faculty
- Staff
- Community



From Engaging Broadly to Engaging Deeply, we will develop trust and connection with your campus community.





User Groups





Digital Outreach



Open Houses + Town Halls



Community Outreach



Working with UCF

UCF Standards & Processes

- UCF Design, Construction, and Renovation Standards
- Professional Services Guide
- Standards Deviation Forms
- Critical Needs Checklist
- CS&T Design Standards
- e-builder Platform

DLR Group Integrated Design Process

- Design Phase QA/QC checklist
- Project comment log
- Comprehensive Owner-Architect-Contractor Meeting Minutes
- Weekly Team Coordination Meetings
- 3rd Party Review
- Real Time Coordination
- Code Review Checklist

Parallel Best Practices

- LEED Goals & Sustainability initiatives
- CPTED principles
- E-verification
- Drug-free workplace policies

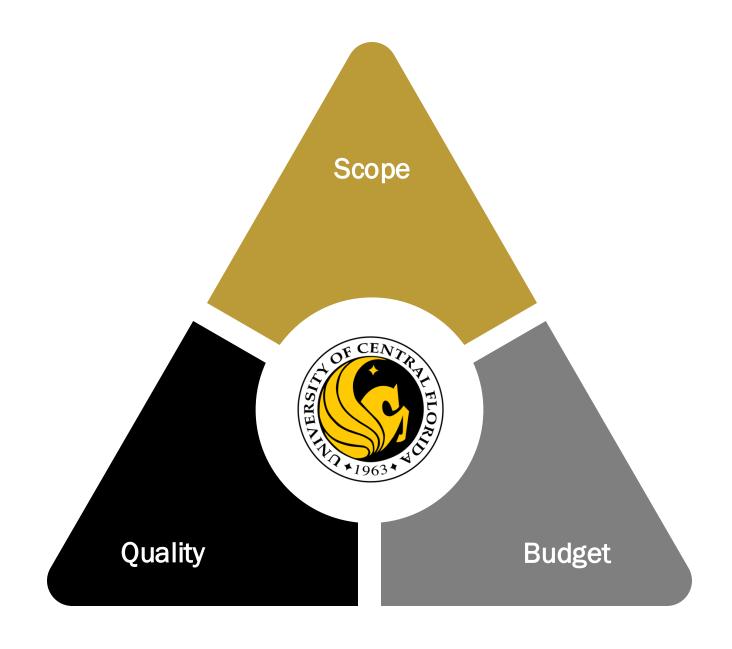
A Balanced Project

Your Scope

- + Your Budget
- = What is most critical to ensure success

Detailed work plan

- Look-ahead w/ setting milestones
- Meetings (client and design team)
- Deadlines (internal and external)
- Presentations
- QC checks
- Project Submittals



Integrated Design Process

SCHEMATIC DESIGN

Kick-Off
Gather Data
Analyze Existing Space
(Listening Tour)

ADVANCED SCHEMATIC DESIGN

Verify Priorities
Initial Phasing Plans
Design Vocabulary
Consultant
Coordination

DESIGN DEVELOPMENT

Refine Design Vocabulary
FF+E
3D Visualization
Consultant Coordination

CONSTRUCTION DOCUMENTS

Documentation
Suggested Phasing Plans
Consultant Coordination
QA/QC
Permitting
Early Bid Packages

CONSTRUCTION ADMINISTRATION

Weekly Construction
Meetings
Review Submittals + Shop
Drawings
Respond to RFIs

SD VERIFY PROGRAM

ASD

DD

CA

ALIGN BUDGET PRELIMINARY
PRICING REVIEW

BUDGET UPDATE CONFIRM BUDGET

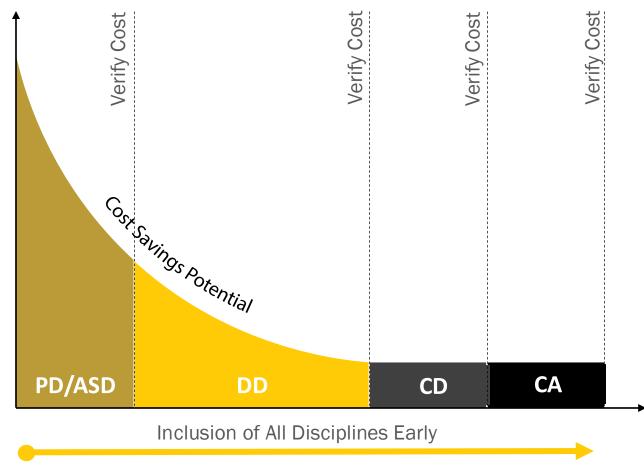
COST CONTROL PROCESS

ENGAGE CONTRACTOR PARTNER EARLY & OFTEN

OUALITY ASSURANCE

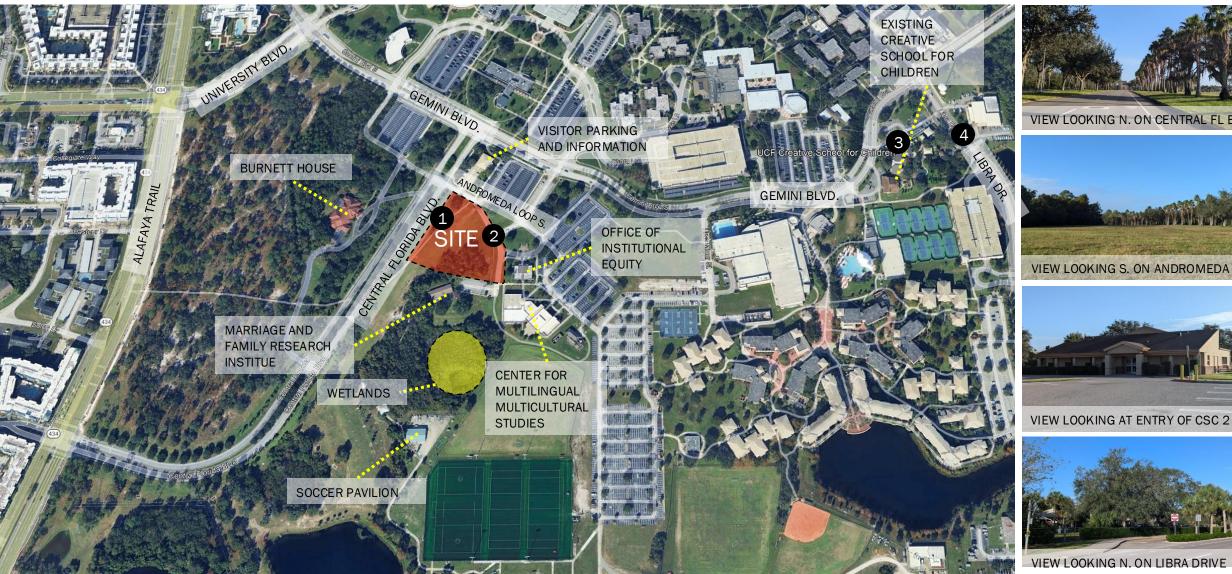
Effective Cost Control: Early Scope & Budget Alignment

- Aligning Scope to Budget
- Prioritize Non-Negotiables (Code Requirements)
- Integrated Design Options
- Building Systems Equipment Evaluation
- Minimizes Redesign for Missing or Inadequate Scope



Living Estimate: Continuous Cost Control

Site Analysis



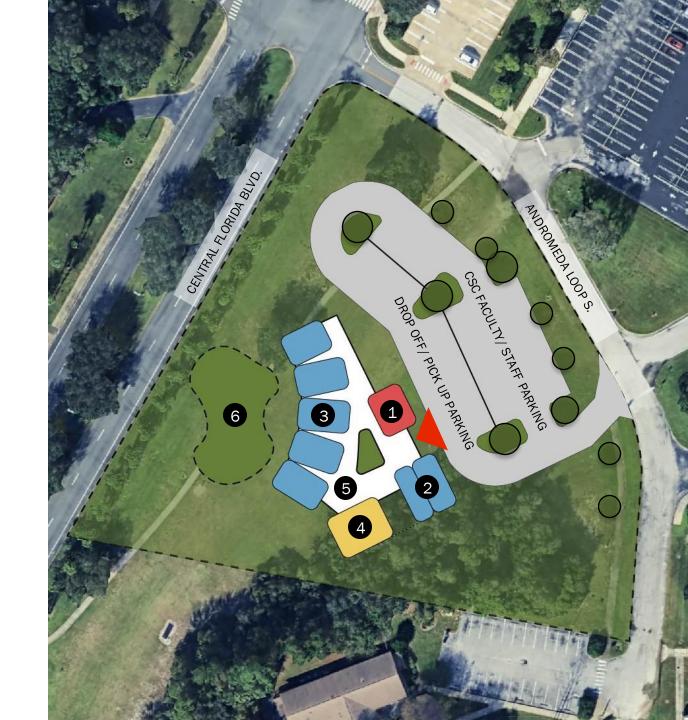






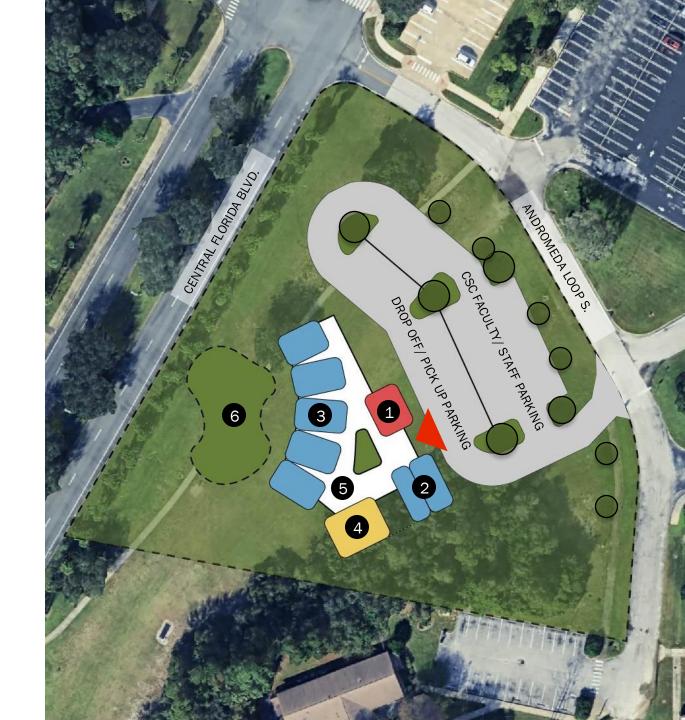


- 1 Administration
- 2 Classroom (Infant 2 yo)
- 3 Classroom (2 5 yo)
- 4 Multipurpose
- 5 Discovery
- 6 Outdoor Learning
- Main Entry

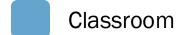






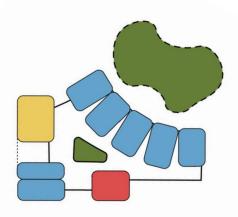








Discovery



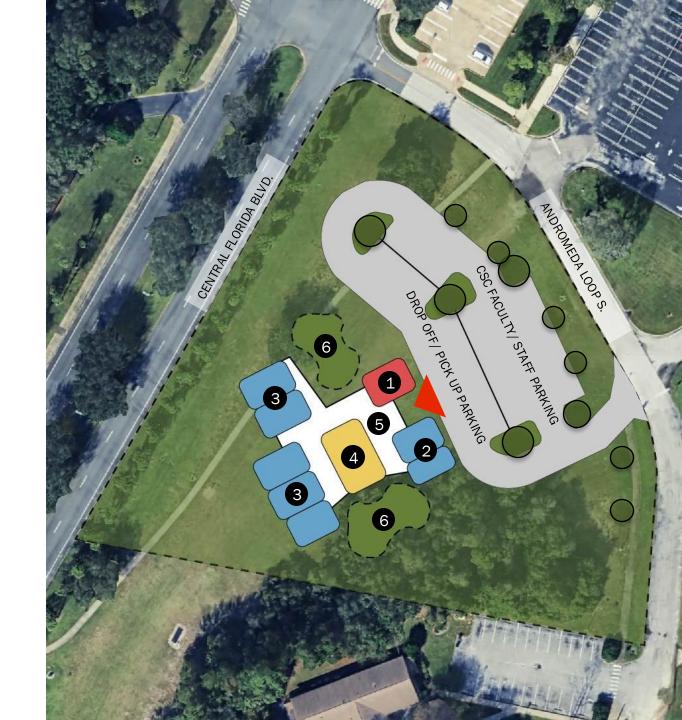


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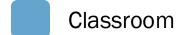






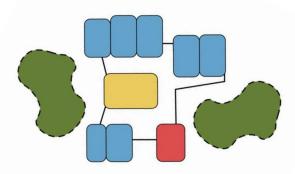








Discovery





WORKPLAN - QUALITY WORKMANSHIP

QA/QC Process

- **Organized** approach to quality management and document review: an established QA/QC process.
- Use of DLR Group's Integrated Design Process (InDePro) and Checklists for all Phases (example right)
- Continuity of Team Members from design start through construction completion
- Internal 3rd Party QC Reviews for every Design Deliverable
- Document design decisions in meeting minutes, but also in NewForma, BlueBeam markup sessions, Teams shares, and with CM/GC input when available.

																						Other							
			Occupant Load			Water Closets (Urinals: See §419.2)				Lavatories					Drinking Fountain			Service	ervice Kitchen Sink		Sink	Clothes Washer							
Classification Occupano			Total Male Female		Male			Female			Male		Female		е	Bathtubs / Sh	(See §410)			Sink	4		Connection						
1		Theaters & other buildings for the																											_
	R-2	Apartment house		Number of Dwelling Units 0		1 per		dwelling unit 0.00		0.00	1 per		dwe	elling unit 0.00		1 per dwelling unit 0.00		-		1	1			1 per	20	0.			
Residential		Congregate living facilities with 16 or fewer persons	0	0	0	1 per	10	0.00	1 per	10	0.00	1 per	10	0.00	1 per	10	0.00	1 per 8	0.00	1 per	100	0.00	1		-			-	
	R-3 One- & two-family dwellings & lodging houses with five or fewer guestrooms		Number of Dwelling Units 0		1 per		dwelling unit 0.00		0.00	1 per		dwelling unit 0.00		0.00	1 per dwelling unit	0.00	-		-	- 1 per dwelling 0.00		0.00	1 per dwelling unit 0.0						
		Congregate living facilities with 16 or fewer persons	0	0	0	1 per	10	0.00	1 per	10	0.00	1 per	10	0.00	1 per	10	0.00	1 per 8	0.00	1 per	100	0.00	1		-			-	
		Structures for the storage of goods, warehouses, storehouse & freight depots.				,	100					,	100		,	100		(See Section	4111	,		0.00	Ι,	-					
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		own are based on one fixture being the m					persor	ns indic	ated o	r any	fraction	of the	num	nber of p	ersons	indico	ated. Th	he number of occ	upants s	hall be	deter	mined b	y the Flori	da Buildi	ing Code	e, Building			

d. The occupant load for seasonal out e. For business and mercantile occupa	ancies with an occup	pant load of 15 c	or fewer, se	rvice sinks sh	hall not be	required.	ium number	of facilitie	s requirea.											
OVERALL REQUIRED NUMBER (OF LIMITS																	Other		
OVERALL REQUIRED NUMBER (OF UNITS	Occupant Total Male	Load Female			als: See §419.2) Female	Mo	Lavat ile	ories Femo	ıle	Bathtu	bs / Show	ers	Drinking (See	Fountain §410)	Service Sink	Kitche	en Sink		es Washer Inection
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URINALS	Occupancy Grou	ıp	Uri	inal Substit	ution Rate	Total		Permitted												
(§419.2) Assemb	oly and Educational (Occupancies		67% of	Required	Water Closets	0)	0											
	All Other Occupan	cies		Not More	Than 50%	of Water Closets	0)	0											
§419.2 Substitution for Water Closets																				
In each bathroom or toilet room, urinals shall not b \$2902.1.1 Fixture calculations.	be substituted for more	e than 67 percer	nt of the re	quired wate	er closets in	assembly and e	educational	occupar	cies. Urinal	s shall n	ot be subst	ituted for	more tho	n 50 per	cent of the	e required	water closes	ts in all other	occupanc	ies.
To determine the occupant load of each sex, the								ture ratio d	or ratios for e	each fix Gro i		hall be an	nlied to	the occi	inant load	d of each s	ex in accor	dance with 1	Table 2902.1	Fractional
numbers resulting from applying the fixture ratios of	t lable 2902.1 shall be	rounded up to	the next v	vhole numb		Section 303	Use Assembly		Г	A-1	•		-2 303.	3	A-3	303.4	A-4	303.5	A-5	303.6
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DLR CMI Cloud +	DLR Interiors Re	vlew			4 DETAILED ROMTS BASED ON USE & OC		Motion Pic Stages, Pla				tion Areas				☐ Storm		re Facilities			
BLR CMI Cloud +	Text Box				ETA.		Special An			rodoc	lion weas			24			Structures			
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Your Advocate During Construction

Field Report

DATE: VISIT NAME: REPORT NO:

REMARKS:

8/21/2024 Field Report 002 FR002

Aranya Mom

DLR Group

Constant Communication

- Proactive & Early partnership
- On-site for immediate resolution
- Review all contractor submittals and RFI's and provide action recommendations
- Scrutinize contractor actions
- Identify Any Early Package Needs
- Communication
- Continuity of Project Leadership through Project Completion

DLR PROJECT CHANGE ORDERS: <1%

(INDUSTRY STANDARD: 3-5%)

OBSERVATIONS

Although this report may include photographs, the architect or engineer is not undertaking to create a comprehensive photographic record of project progress or any particular condition.

ITEM: FOR 014-001

SPACE:

SUBJECT: Structural



Columns at entry and entry canopy in place. Steel erection continuing at main entry location.





What Our Team Brings | *Elements for Success*







Research-Based Design

UCF Campus Partnership

Program Type Experts

THANK YOU!

DLRGROUP



