



NEW ENGINEERING BUILDING |
DESIGN CRITERIA

LAKELAND, FLORIDA

Basis of Design
10.12.22



IN ASSOCIATION WITH
WALTER P. MOORE | STRUCTURAL
AFFILIATED ENGINEERS, INC | MEP
CHASTAIN SKILLMAN | CIVIL

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01. ARCHITECTURAL PLANNING

01.1 PROGRAM SUMMARY

Program Level 1	Program Level 2	Name	Prog Quantity	Prog NSF	Comments	Sum of Prog Total NSF	
Common	Admin Suite	Shared Conference Room - 12 Seat	1	300		300	
		Work Room/Copy Room	1	50		50	
		Department Chair Office	2	150		300	
		Storage (Industry Partner)	1	150		150	
	Admin Suite Total						800
	Faculty / Staff Office	Faculty/Staff Office	17	120		2040	
		Faculty / Staff Office Total					
	Public Space	Lobby	1	800		800	
		Quiet Room/Mothers Room	1	90		90	
		Vending	1	50		50	
		Faculty Lounge - Break Room	1	200		200	
		Faculty Informal Collaboration Space	2	170		340	
		Public Space Total					
	Shared Conference / Seminar Rooms		Shared Conference Room - 6 Seat	2	150		300
	Shared Conference / Seminar Rooms Total						300
Common Total						4620	
Environmental and Civil Eng	Research Lab	Environmental Lab	2	900		1800	
		Research Lab	2	1500	One requires access to a rollup door.	3000	
	Research Lab Total						4800
	Research Lab Support	Environmental Lab Support	1	500		500	
	Research Lab Support Total						500
	Research Office	Research Office	2	120		240	
		Research Office (Lab Tech)				120	
Research Office Total						360	
Environmental and Civil Eng Total						5660	
Research Environments	Research Lab	Experiential Lab (Vehicle Bay)	1	1000		1000	
		Mechanical Engineering Lab	2	1200		2400	
		Civil Engineering Lab	1	1100		1100	
	Research Lab Total						4500
	Student Commons / Study Space	Student Collaboration	2	200		400	
Student Commons / Study Space Total						400	
Research Environments Total						4900	
Support	Building Support Spaces	Recycling	1	50	Included in BOH Services	50	
		Attic Storage	1	300	Included in BOH Services	300	
		Custodial Storage	1	50		50	
		Custodial Closet	2	50		100	
	Hazardus Storage	One Room should be classified H and located at exterior wall	1	100		100	
		Chemical Storage	1	100		100	
	Building Support Spaces Total						700
Support Total						700	
Grand Total						15880 NSF	
Efficiency Target						55%	
Total Gross Assignable Area						28873 GSF	
Grossing Factor						1.82	

01. ARCHITECTURAL PLANNING

01.1 PROGRAM SUMMARY

Program Level 1	Program Level 2	Name	Prog Quantity	Prog NSF	Comments	Sum of Prog Total NSF	
Shell Strategy	Future Industry Partner Research	Directors Office	4	150	2nd Floor	600	
		Student Workstations	4	30	2nd Floor	120	
		Industry Partner Office	3	150	2nd Floor	450	
		Lab Support	4	240	2nd Floor	960	
		Analytical Lab	1	2000	2nd Floor	2000	
	Future Industry Partner Research Total					4130	
	Shell	Building Shell	1	4000	2nd Floor	4000	
	Shell Total					4000	
Shell Strategy Total						8130	
Grand Total						8130 NSF	
						Efficiency Target	50%
						Total Gross Assignable Area	16260 GSF
						Grossing Factor	2.00



FPU ENGINEERING BUILDING

01. ARCHITECTURAL PLANNING

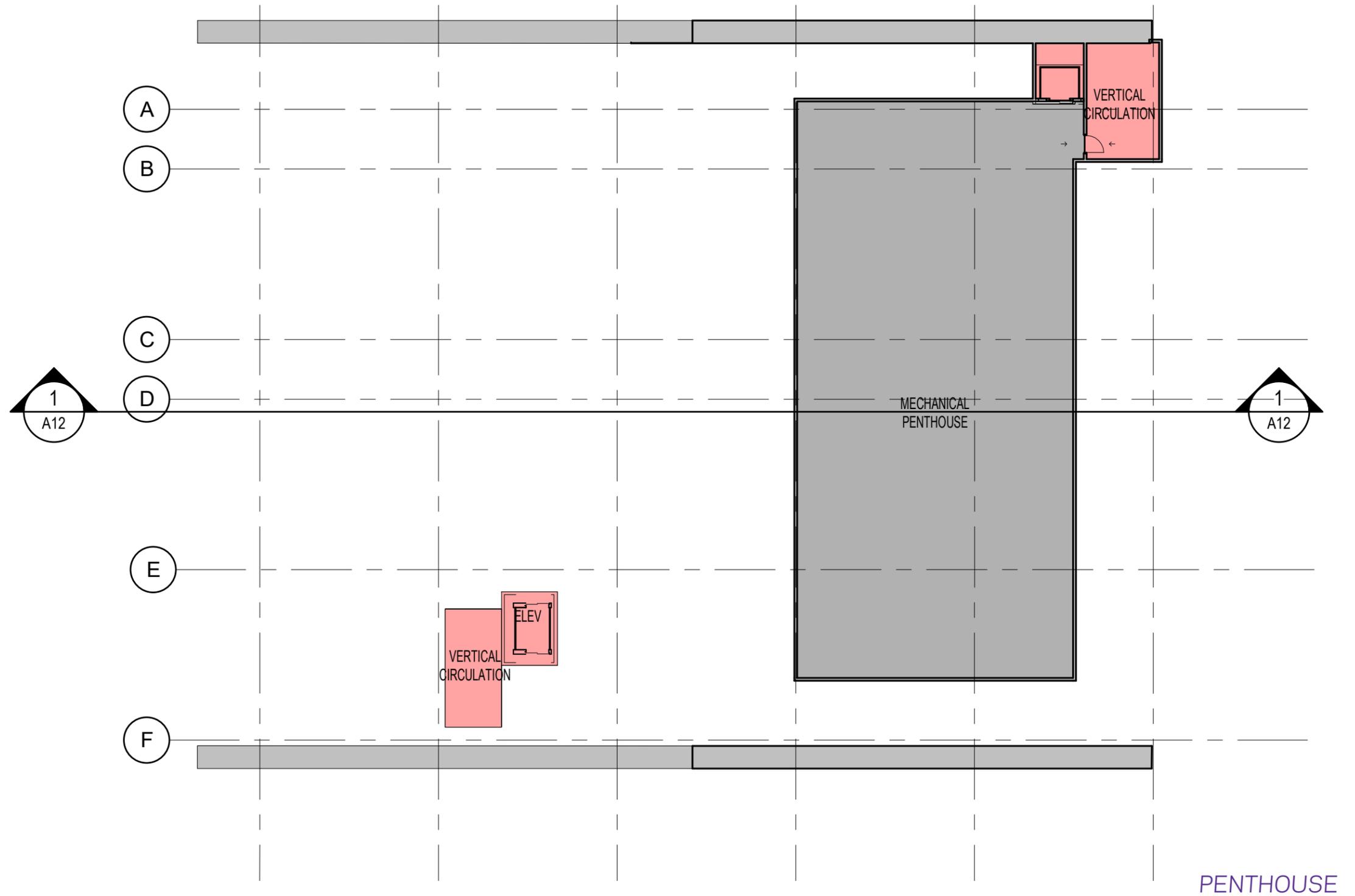
01.2 FLOOR PLANS



LEVEL 2

01. ARCHITECTURAL PLANNING

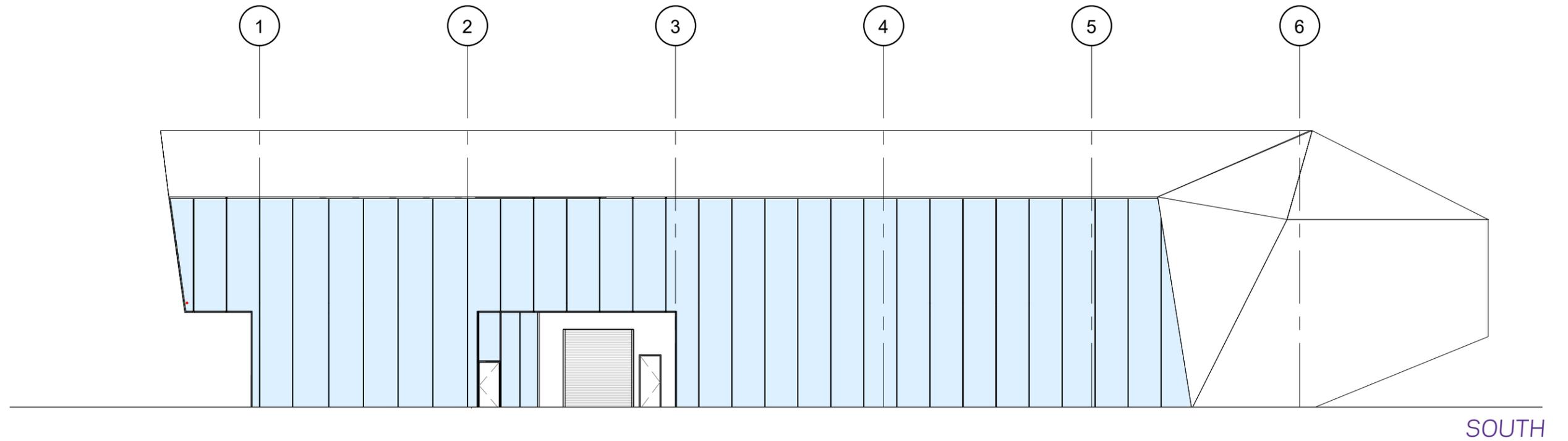
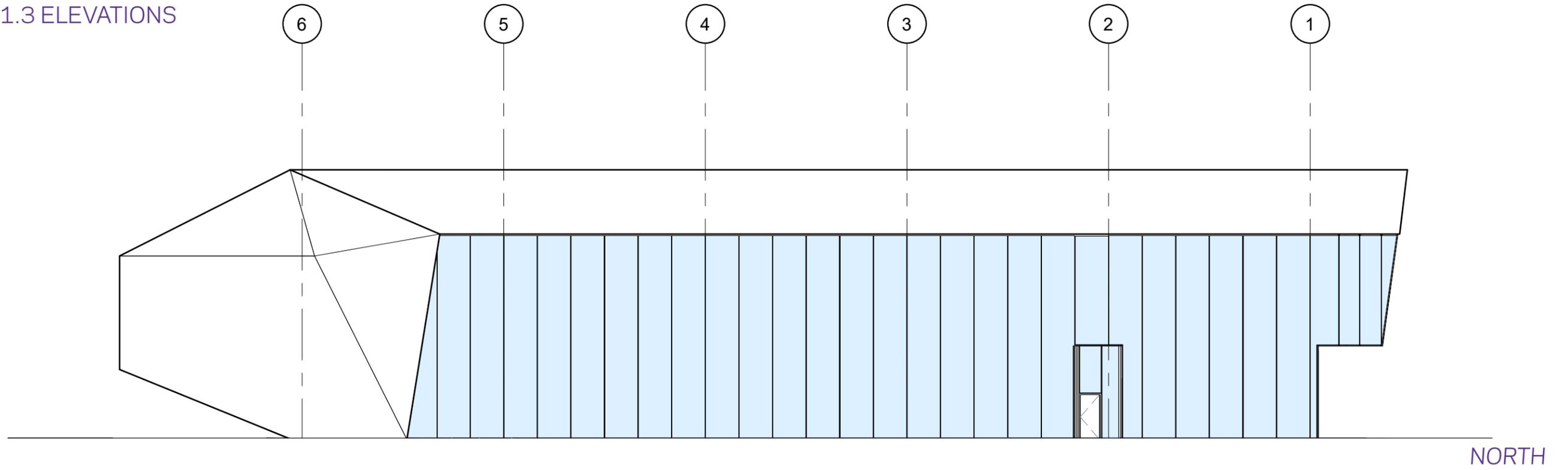
01.2 FLOOR PLANS



PENTHOUSE

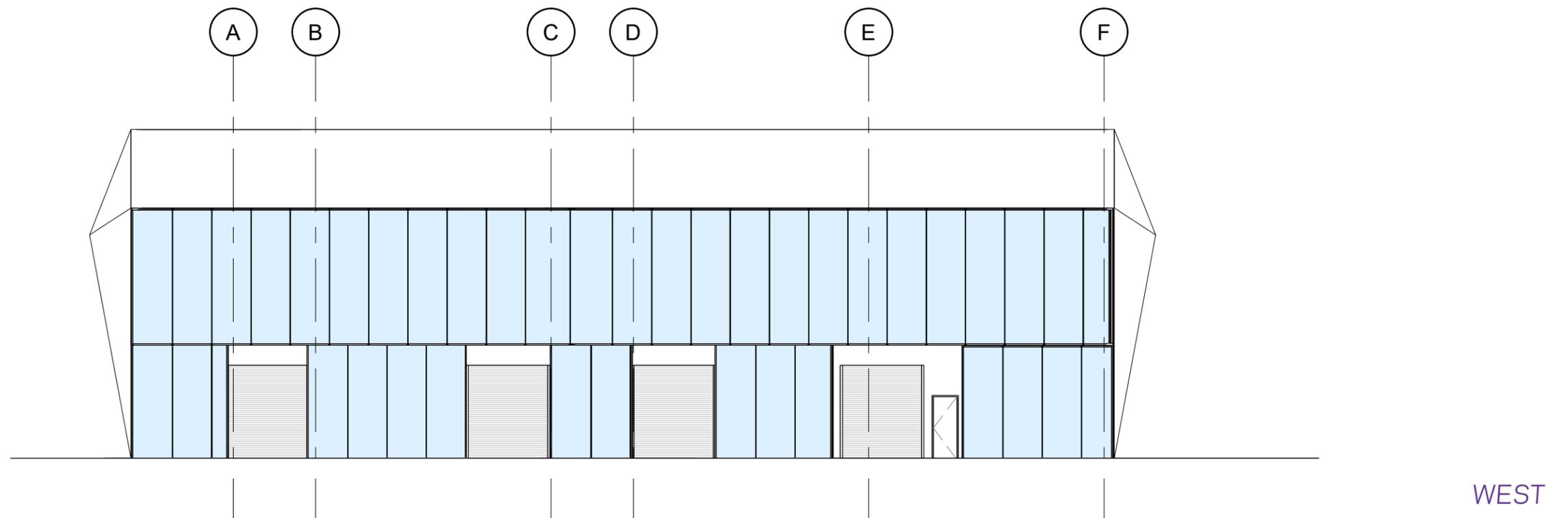
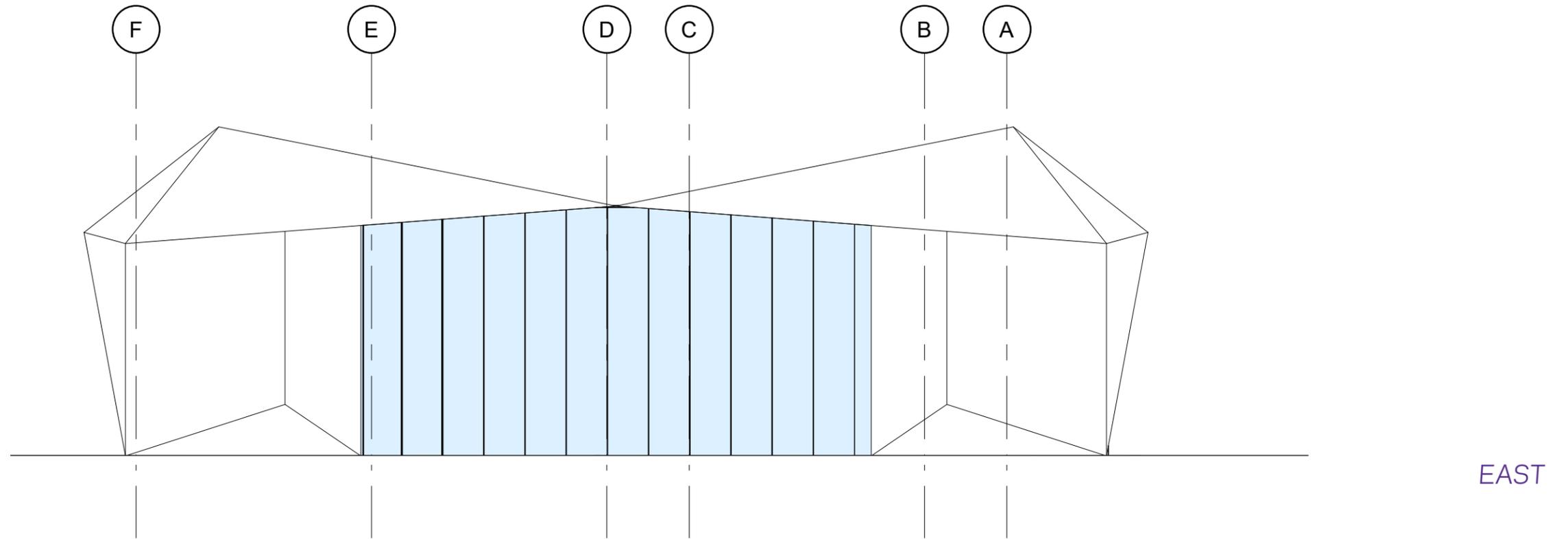
01. ARCHITECTURAL PLANNING

01.3 ELEVATIONS



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01. ARCHITECTURAL PLANNING

01.4 SECTION

