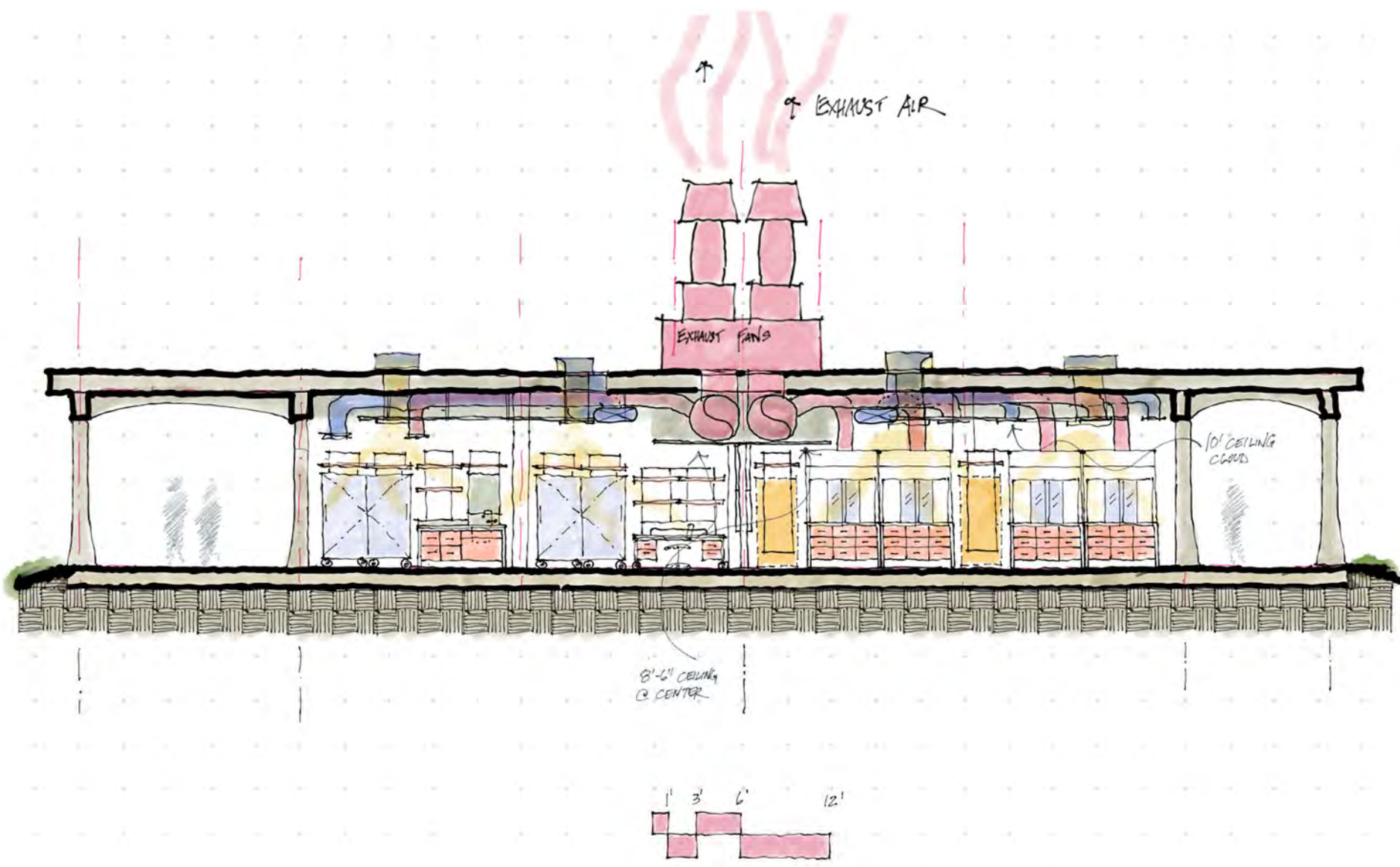


LAB SKETCHBOOK
College of the Desert
Palm Desert, California
2021 Nov 18

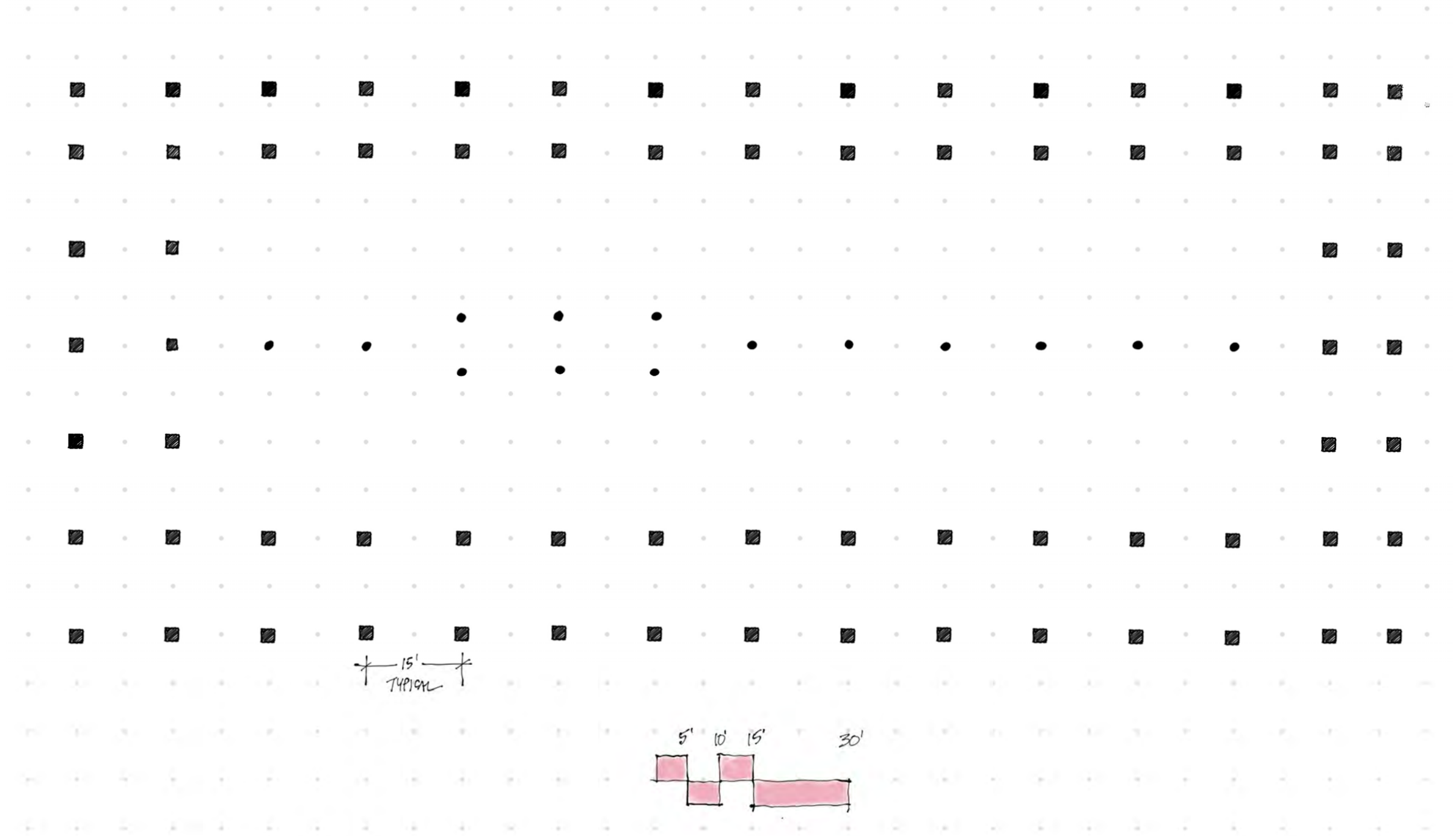
Gensler

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STRUCTURAL GRID



COMPOSITE LAB PLAN



SMALL BIOLOGY LAB

North Center Right- Mobile Island

SPACE FUNCTION		MECHANICAL	
Laboratory Instruction of biological science.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1000 ASF face of wall 22.5'x45' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab	Floor Drain	Below safety shower
Capacity	1 faculty; 24 students	Vacuum	At fume hood and perimeter sink station benches, instructor island
Security	Card Reader	Natural Gas	At student island benches, instructor island, and fume hood Gas shut-off valve
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room	Emergency Power	None
Light Attenuation	At exterior windows	UPS	Point-of-use by user where needed
Sound Attenuation	NC 40 or less	FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Lab casework, sinks, tops, fittings Mobile island benches Vertical slide marker board Flat wall monitors
Live Load	125 lbs/sf	College Furnished	Microscopes, computers, chairs, carts

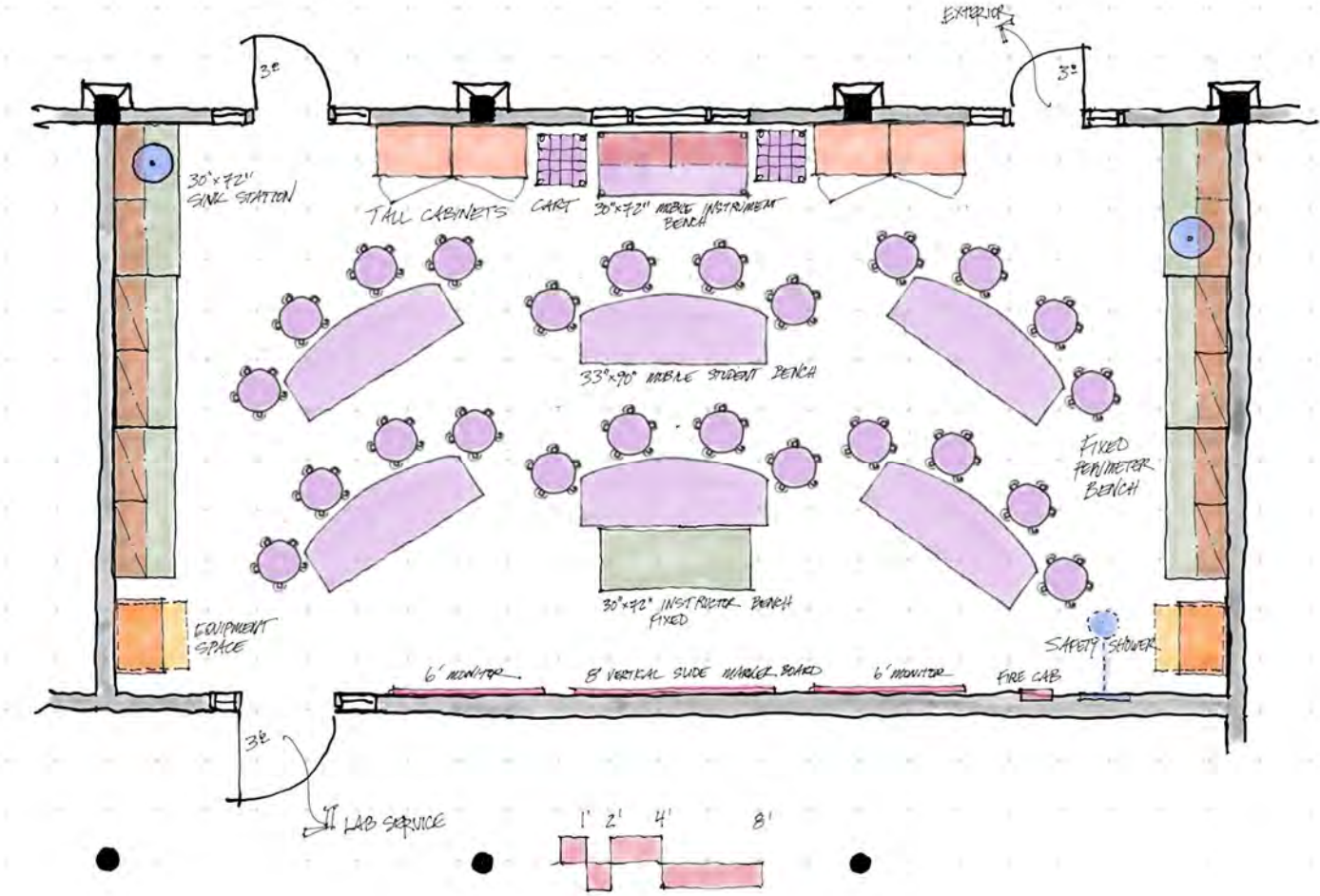
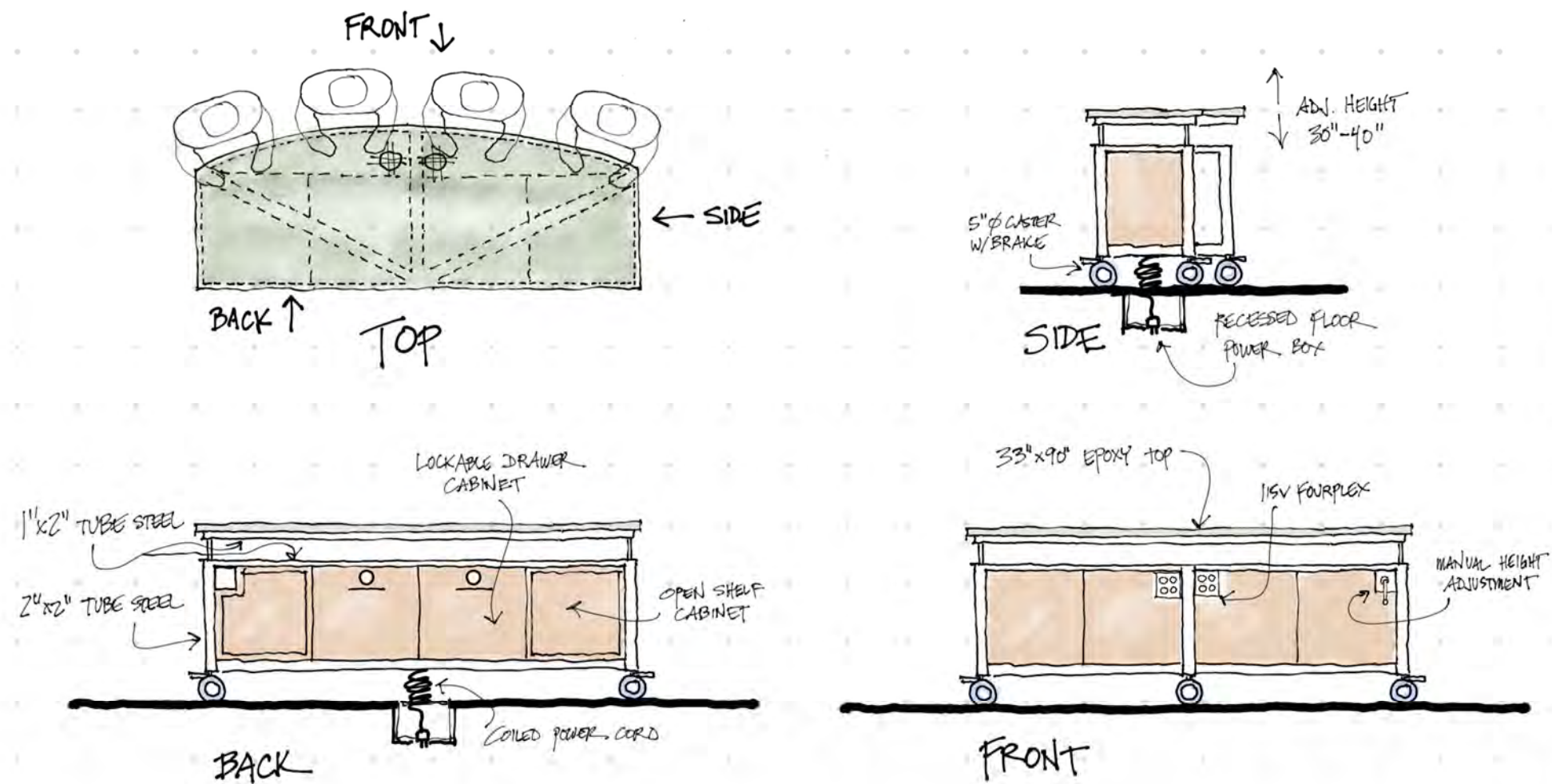
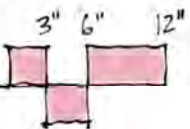


Illustration is conceptual and may change as design develops.



BIOLOGY/GEOLOGY ISLAND ELEVATION

BIOLOGY & GEOLOGY LABS COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 18



LARGE BIOLOGY LAB

Northeast Corner- Mobile Island

SPACE FUNCTION		MECHANICAL	
Laboratory Instruction of biological science.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour normal occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1300 ASF face of wall 30'x45' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab		
Capacity	1 faculty; 28 students	Floor Drain	Below safety shower
		Vacuum	At perimeter sink station benches
Security	Card Reader	Natural Gas	At perimeter sink station benches Gas shut-off valve
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall Moveable power cords at overhead unistrut max 8 plugs per circuit Wireless and hardwire
Walls	Painted gyp board over metal studs	Data	
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room	Emergency Power	None
Light Attenuation	At exterior windows		
Sound Attenuation	NC 40 or less	UPS	Point-of-use by user where needed
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Lab casework, sinks, tops, fittings Mobile benches Safety shower/eyewash Vertical slide marker board Flat wall monitors
		College Furnished	Microscopes, computers, chairs, carts
Live Load	125 lbs/sf		

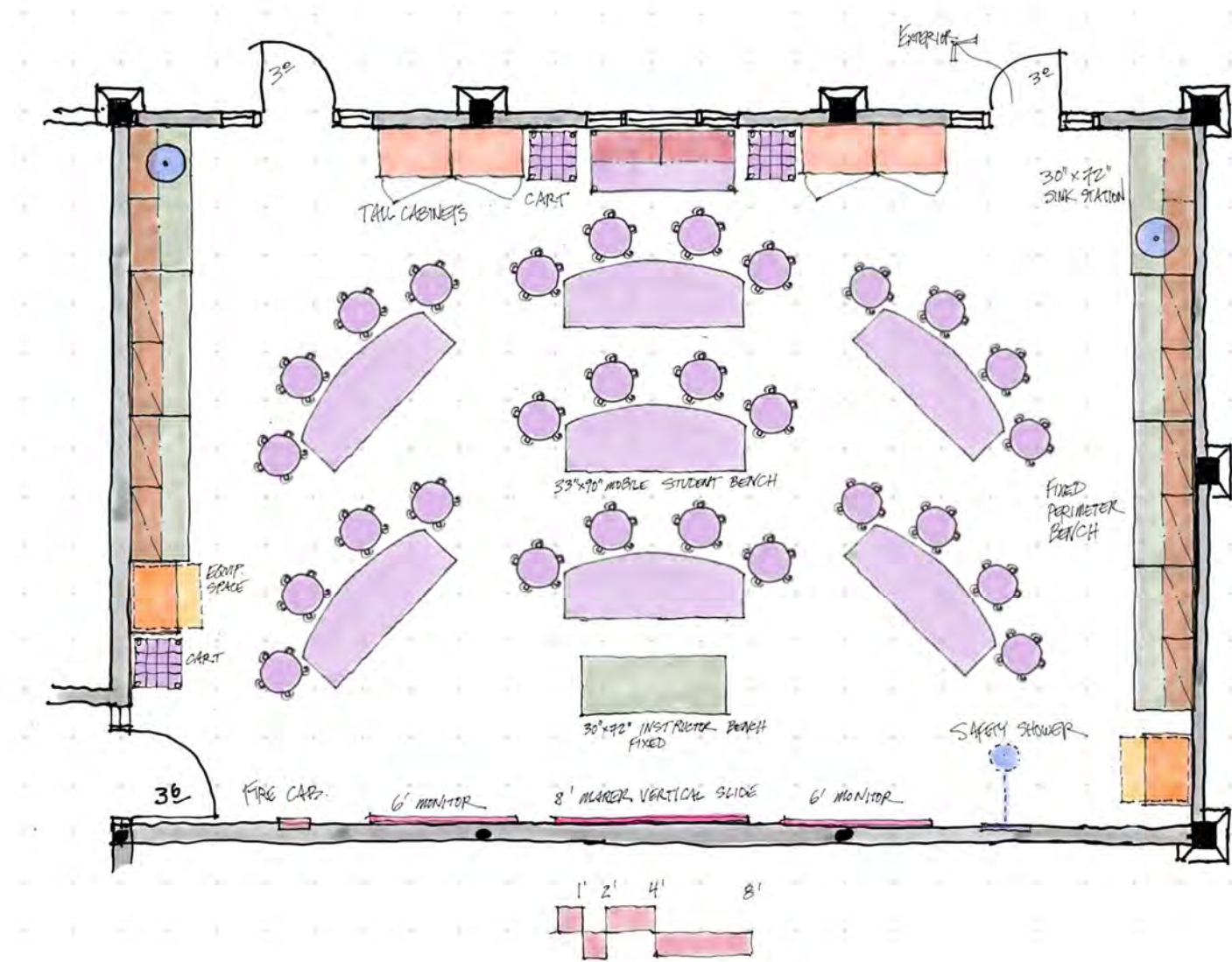


Illustration is conceptual and may change as design develops.

MICROBIOLOGY LAB

Southeast Corner- Fixed Island

SPACE FUNCTION		MECHANICAL	
Laboratory Instruction of microbiology science.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling; 1100 cfm at BSC
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1300 ASF face of wall 30'x45' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab	Floor Drain	Below safety shower
Capacity	1 faculty; 28 students	Vacuum	At student island benches, instructor island
Security	Card Reader	Natural Gas	At student island benches, instructor island Gas shut off valve
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room	Emergency Power	None
Light Attenuation	At exterior windows	UPS	Point-of-use by user where needed
Sound Attenuation	NC 40 or less		
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Biological Safety Cabinet Class II Type B- double sash Lab casework, sinks, tops, fittings Tall storage cabinets with marker board doors Vertical slide marker board Flat wall monitors College Furnished Microscopes, computers, chairs, carts
Live Load	125 lbs/sf		

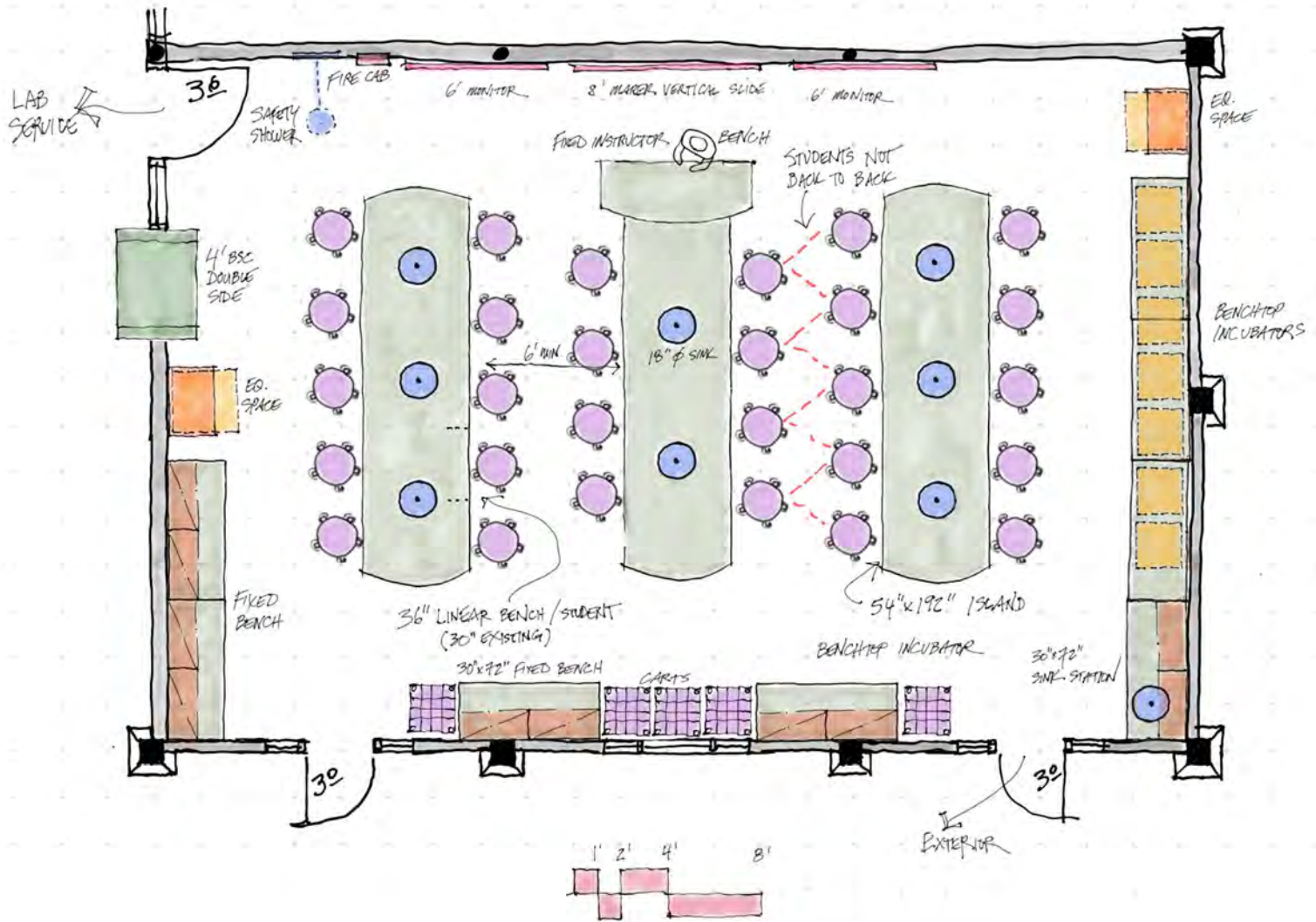
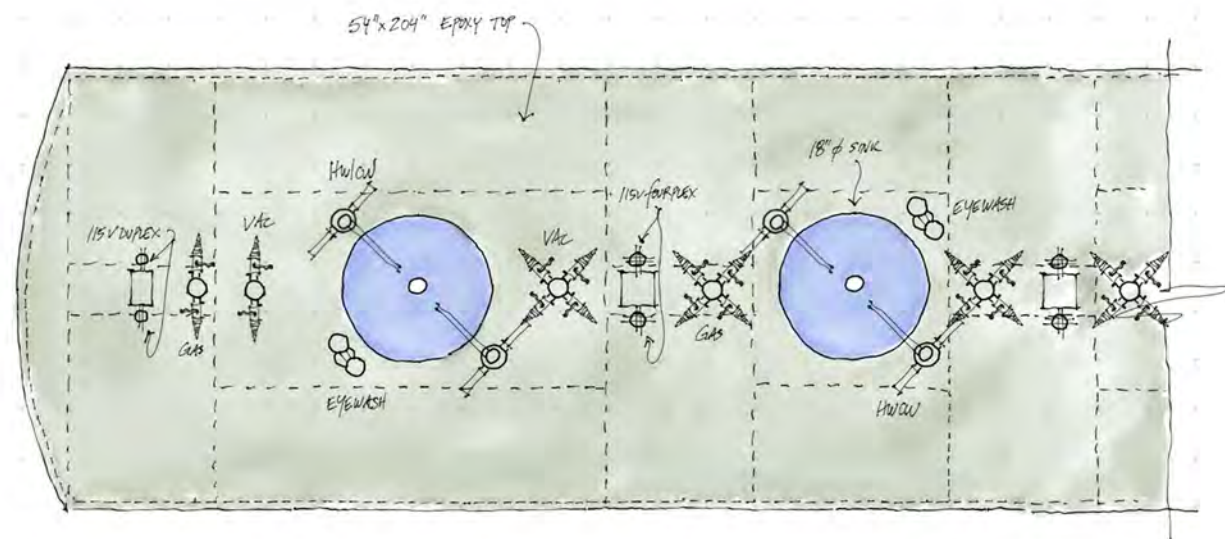


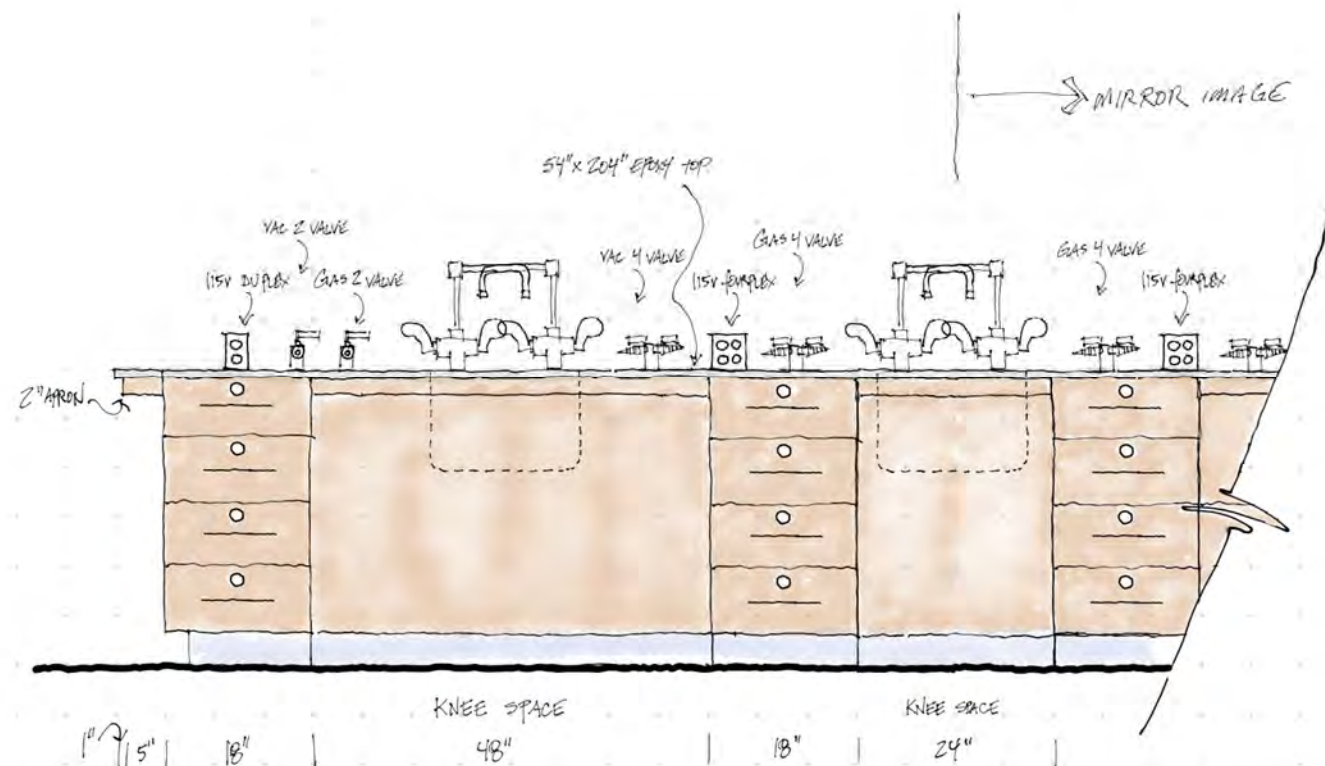
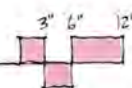
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MICROBIOLOGY LAB
Fixed Island Details



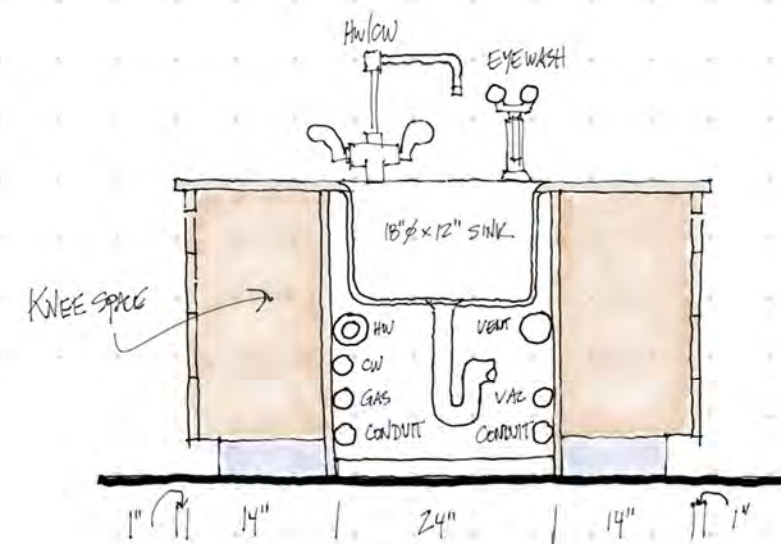
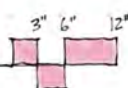
MICROBIOLOGY ISLAND PLAN

MICROBIOLOGY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 17



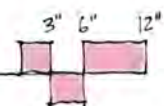
MICROBIOLOGY ISLAND ELEVATION

MICROBIOLOGY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 17



MICROBIOLOGY ISLAND SECTION @ SINK

MICROBIOLOGY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 17



GEOLOGY LAB

Southwest Corner- Mobile Island

SPACE FUNCTION		MECHANICAL	
Laboratory Instruction of geological and earth science.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour normal occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1200 ASF face of wall 30'x41' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab		
Capacity	1 faculty; 28 students	Floor Drain	Below safety shower
		Vacuum	None
Security	Card Reader	Natural Gas	None
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall Moveable power cords at overhead unistrut max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room	Emergency Power	None
Light Attenuation	At exterior windows		
Sound Attenuation	NC 40 or less	UPS	Point-of-use by user where needed
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Lab casework, sinks, tops, fittings Mobile benches Safety shower/eyewash Vertical slide marker board Flat wall monitors Microscopes, computers, chairs, carts
		College Furnished	
Live Load	125 lbs/sf		

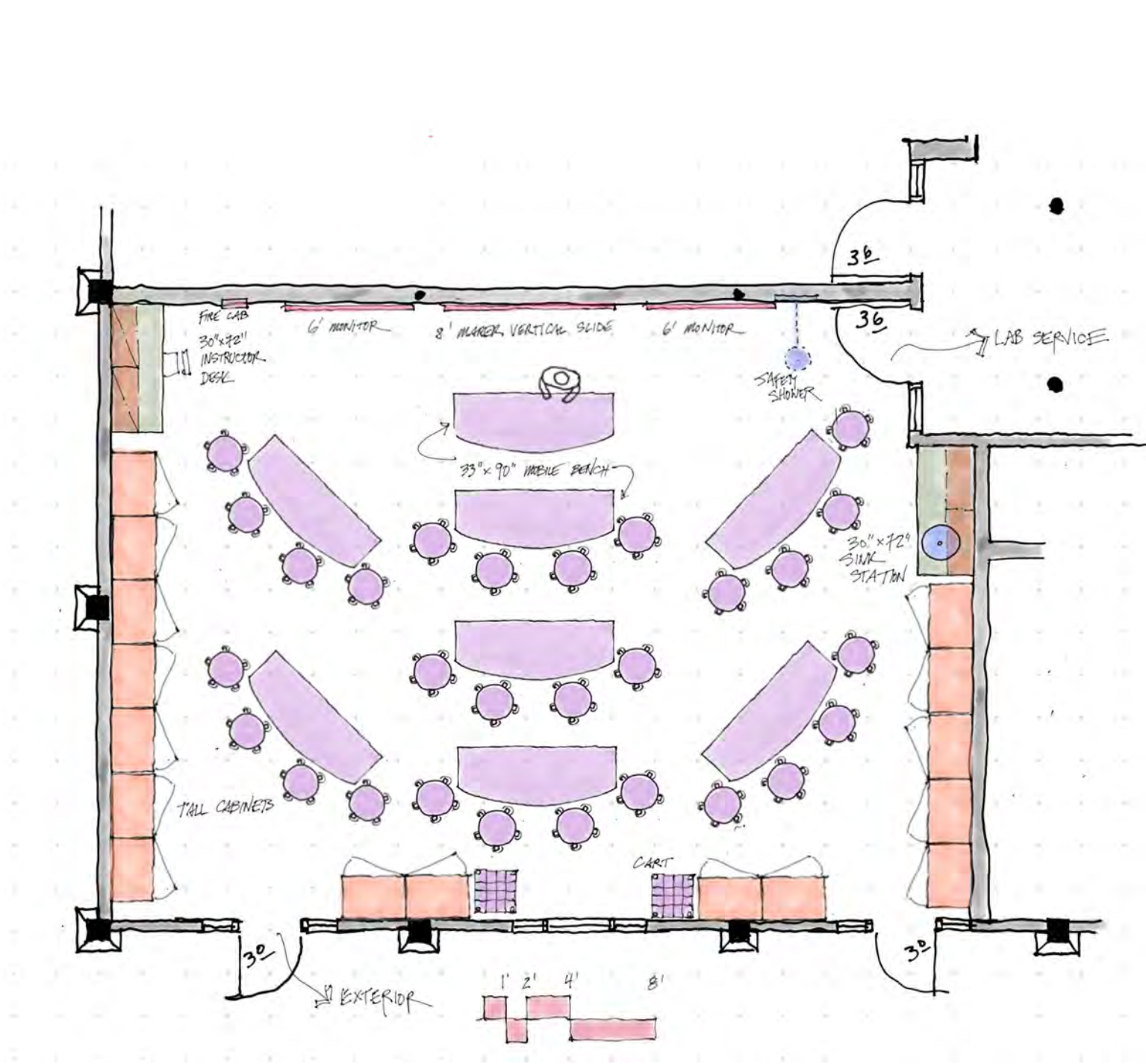
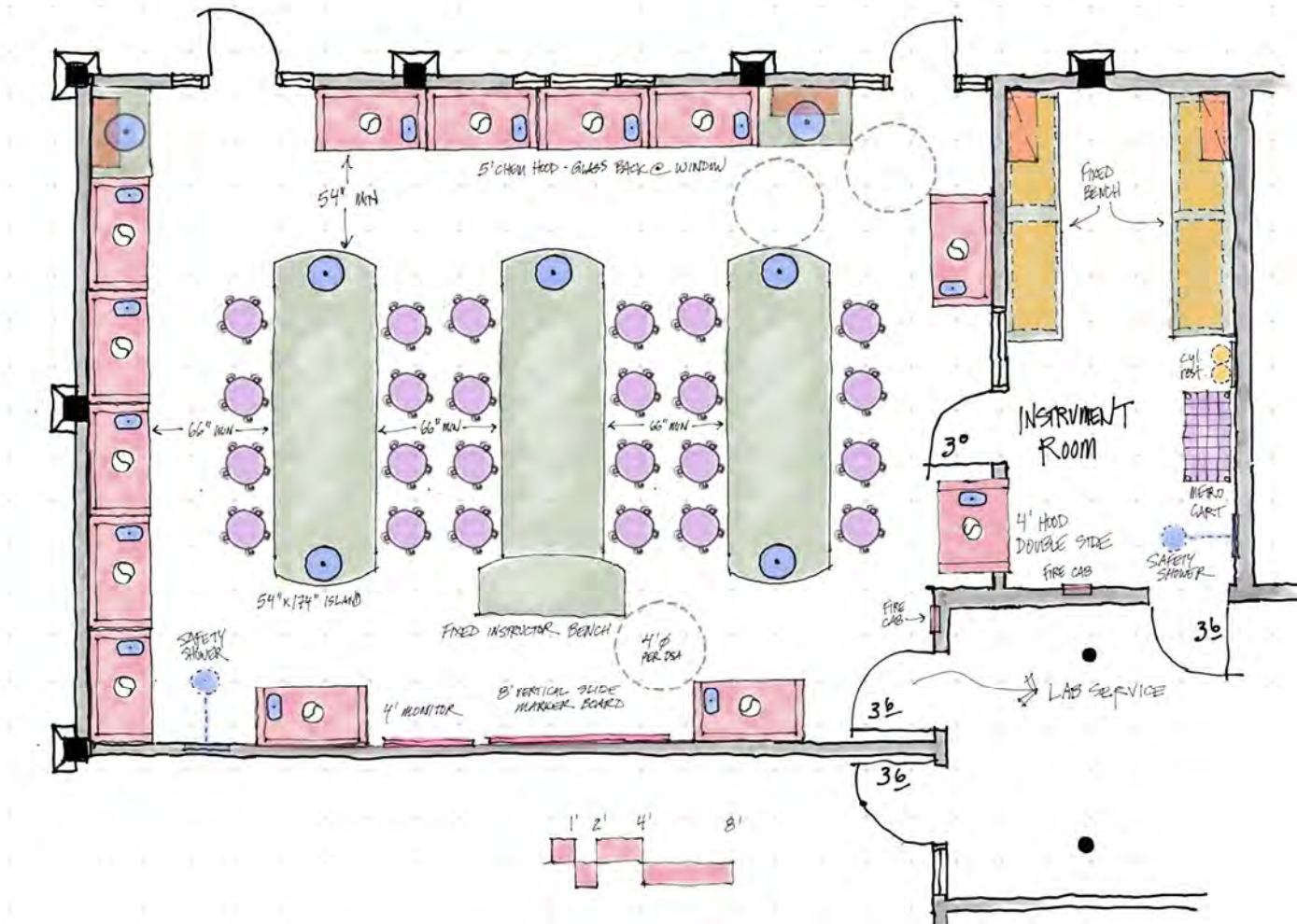


Illustration is conceptual and may change as design develops.

LARGE CHEMISTRY LAB & INSTRUMENT ROOM

Northwest Corner- Fixed Island

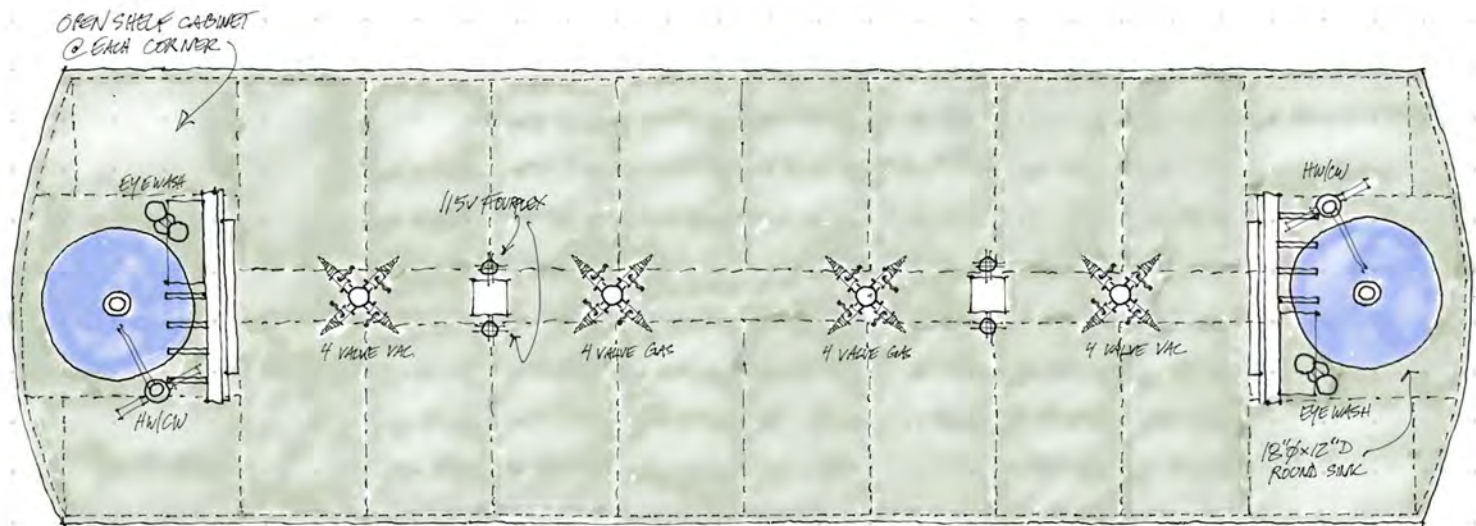
SPACE FUNCTION		MECHANICAL	
Lab instruction of organic chemistry.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour normal occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling; Fume hood (700 cfm)
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1300 ASF face of wall 30'x45' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab		
Capacity	1 faculty; 28 students	Floor Drain	Below safety shower
		Vacuum	At fume hoods and islands
Security	Card Reader	Natural Gas	At fume hoods and islands Gas shut off valve
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall and islands max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays similar to existing	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room	Emergency Power	None
Light Attenuation	At exterior windows		
Sound Attenuation	NC 40 or less	UPS	Point-of-use by user where needed
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Chemical fume hoods Lab casework, sinks, tops, fittings Safety shower/eyewash Vertical slide marker board Flat wall monitors
		College Furnished	Computers, chairs, carts Instrument Room: NMR, GCMS, HPLC, cylinder gases



Illustrations are conceptual and may change as design develops.

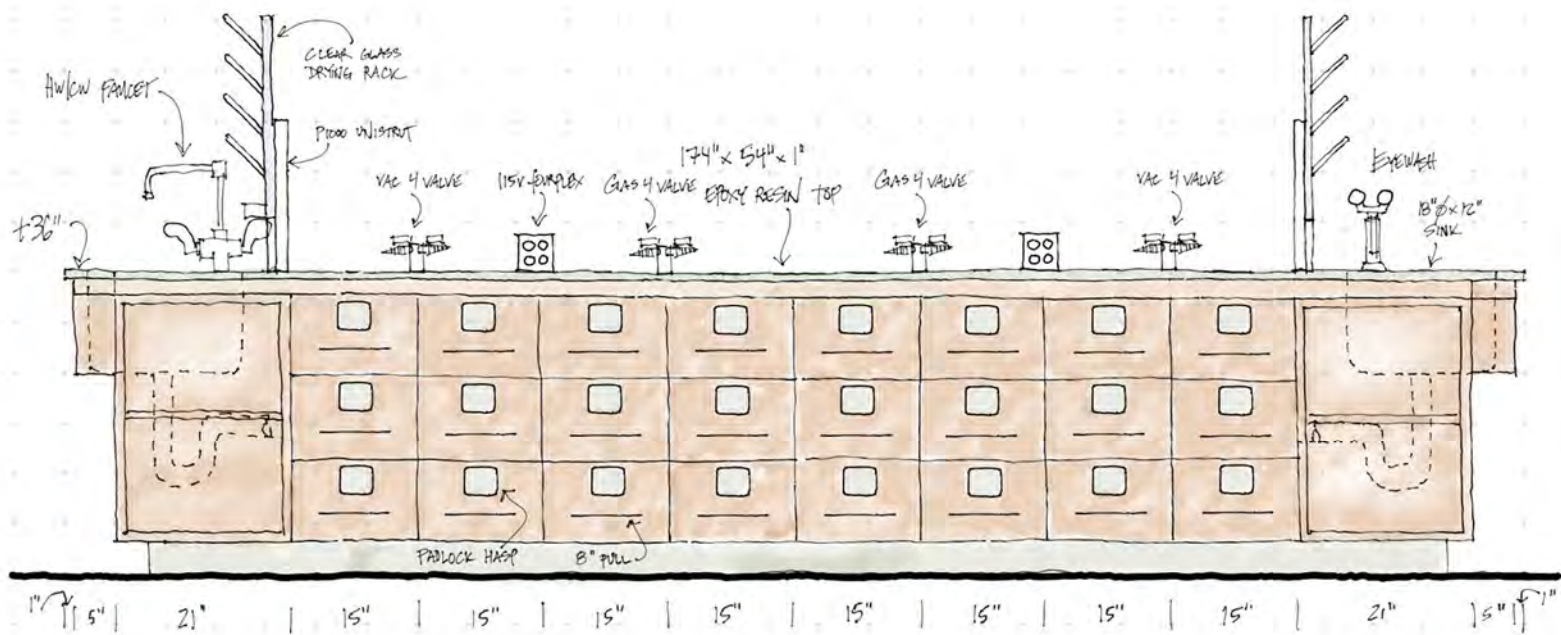
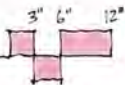
LARGE CHEMISTRY LAB

Fixed Island Details



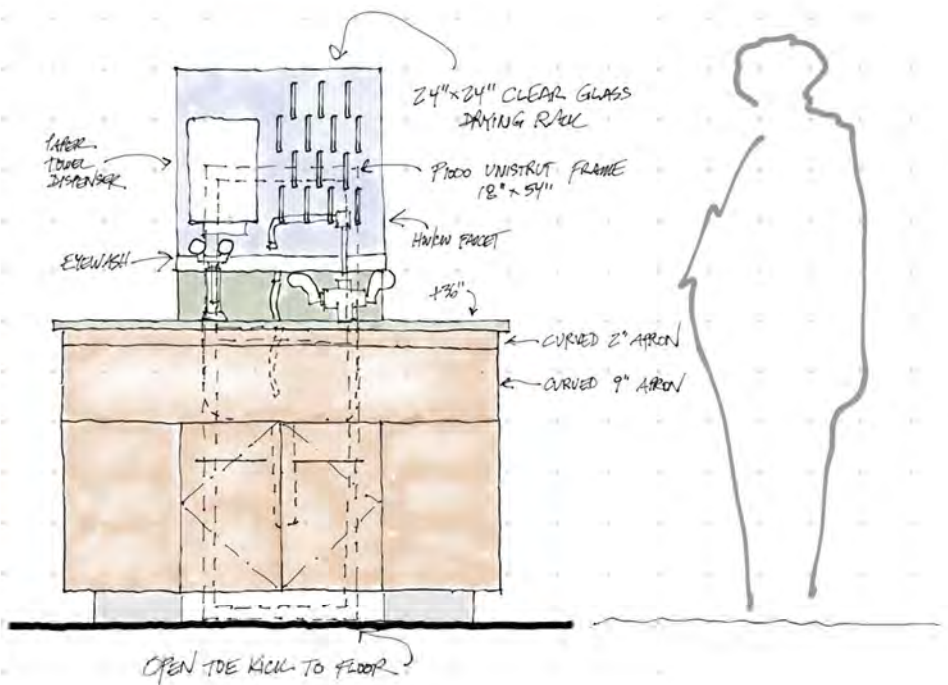
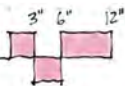
CHEMISTRY ISLAND PLAN

LARGE CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 11



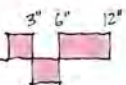
CHEMISTRY ISLAND ELEVATION

LARGE CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 11



CHEMISTRY ISLAND END ELEVATION

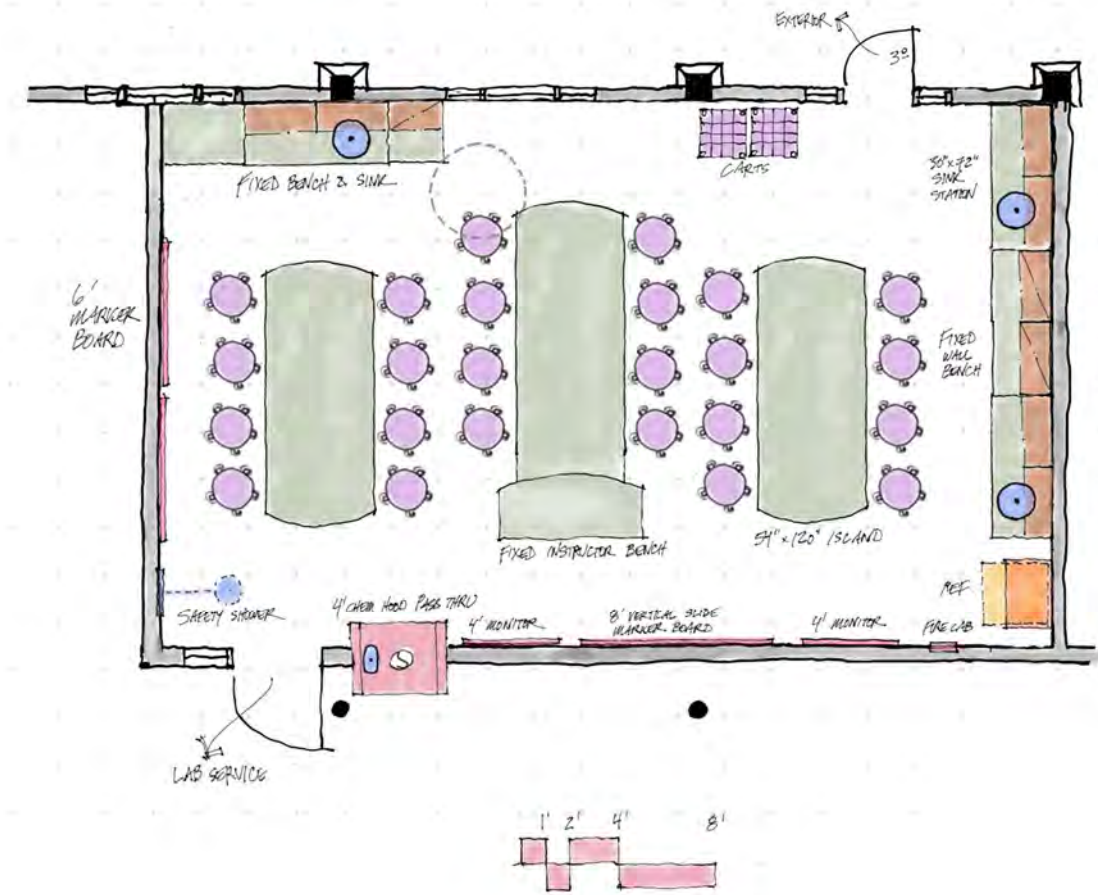
LARGE CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CB 2021 NOV 11



SMALL CHEMISTRY LAB

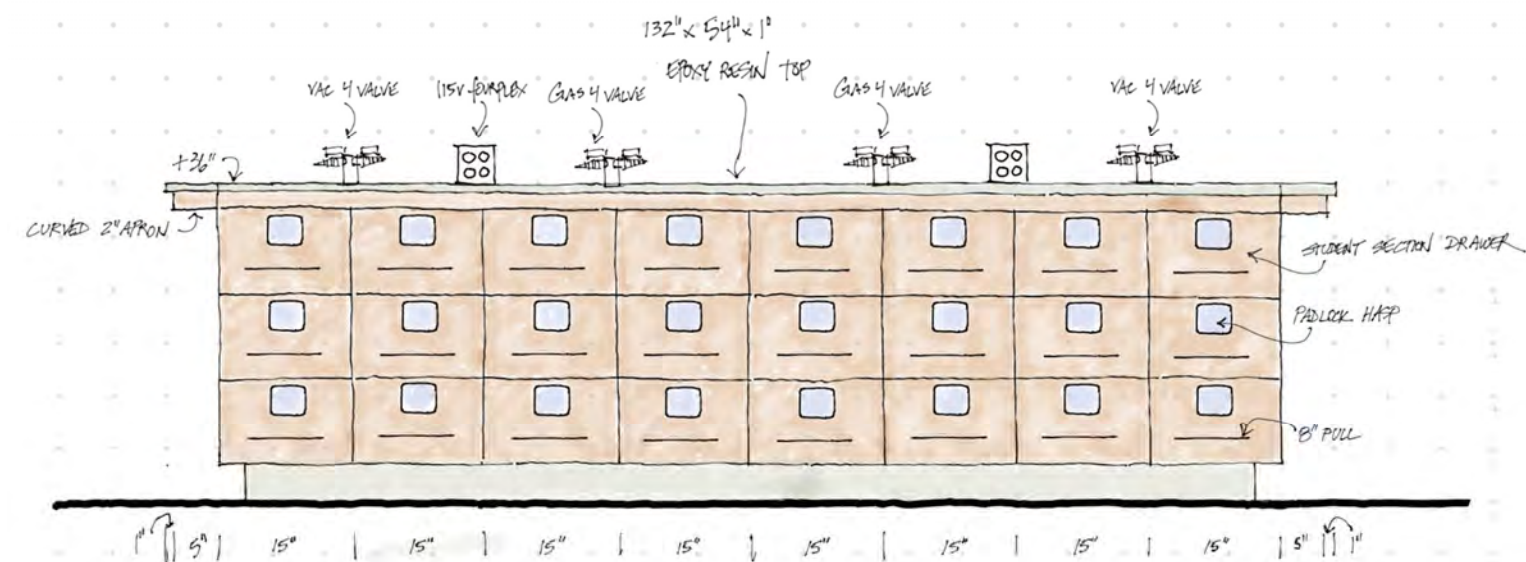
North Center Left- Fixed Island

SPACE FUNCTION		MECHANICAL	
Lab instruction of general chemistry.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour normal occupied 2 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling; Fume hood (1200 CFM))
		Pressure	Negative
		Equipment Heat Gain	25 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~980 ASF face of wall 22.5'x45' centerline wall	Hot/Cold Water	At lab sinks
Quantity	1 lab		
Capacity	1 faculty; 20 students	Floor Drain	Below safety shower
		Vacuum	At fume hoods and perimeter sink station benches
Security	Card Reader	Natural Gas	At fume hoods and island benches Gas shut-off valve
Hours of Operation	6 am to 11 pm Mon-Sat	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall and islands max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'-6" above floor	Controls	Occupancy sensor and manual override
Glazing	Floor to ceiling windows at center of structural bays similar to existing	Lighting	LED at 500 LUX
Doors	3'-0"x8'-0" at exterior 3'-6"x8'-0" at Prep Room		
Light Attenuation	At exterior windows	Emergency Power	None
Sound Attenuation	NC 40 or less	UPS	Point-of-use by user where needed
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Chemical fume hood- double side Lab casework, sinks, tops, fittings Safety shower/eyewash Vertical slide marker board Flat wall monitors
		College Furnished	Computers, chairs, carts
Live Load	125 lbs/sf		



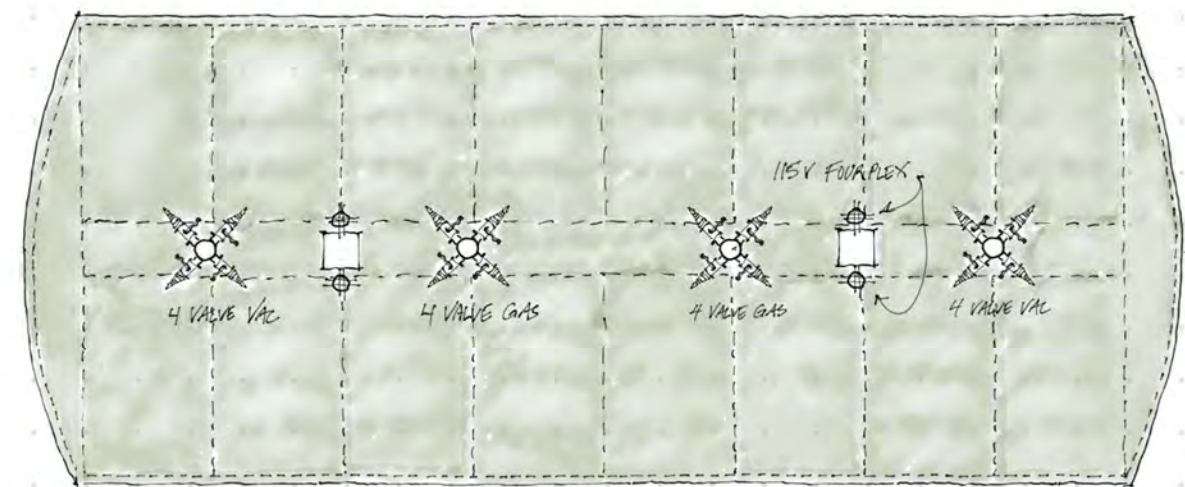
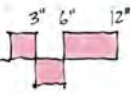
Illustrations are conceptual and may change as design develops.

SMALL CHEMISTRY LAB
Fixed Island Details



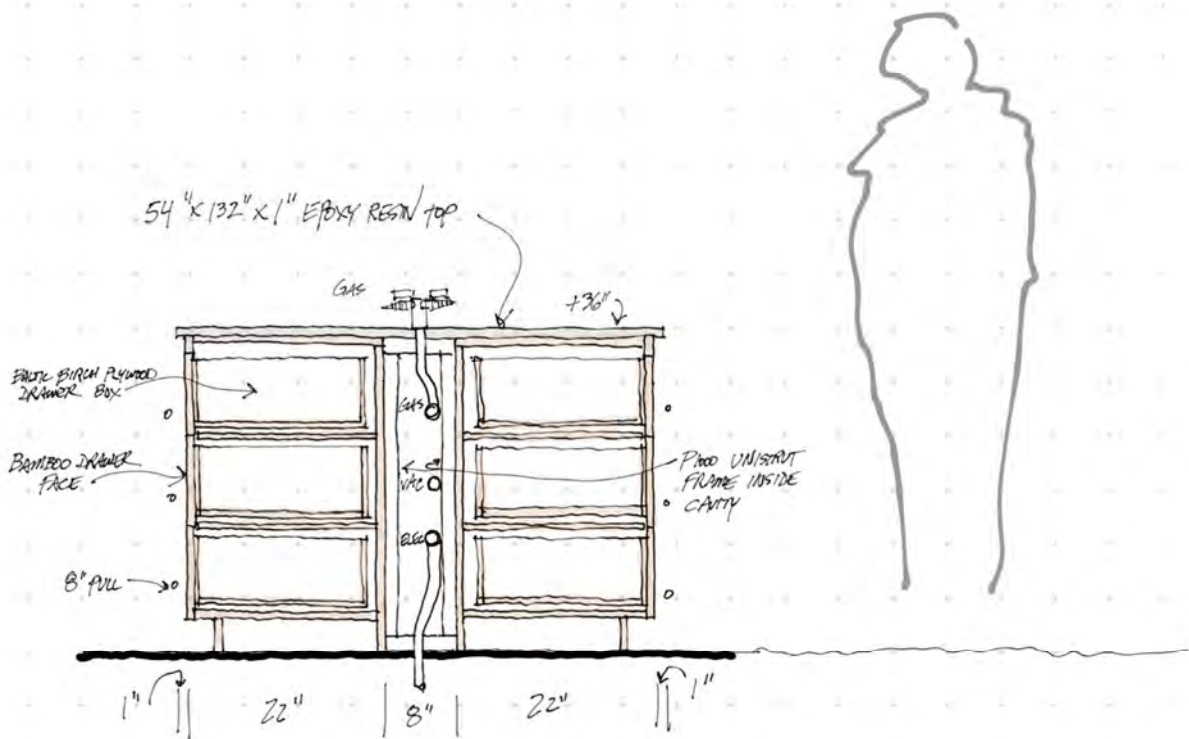
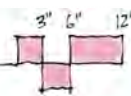
CHEMISTRY ISLAND ELEVATION

SMALL CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CAB 2021 NOV 11



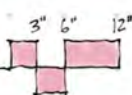
CHEMISTRY ISLAND PLAN

SMALL CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CAB 2021 NOV 11

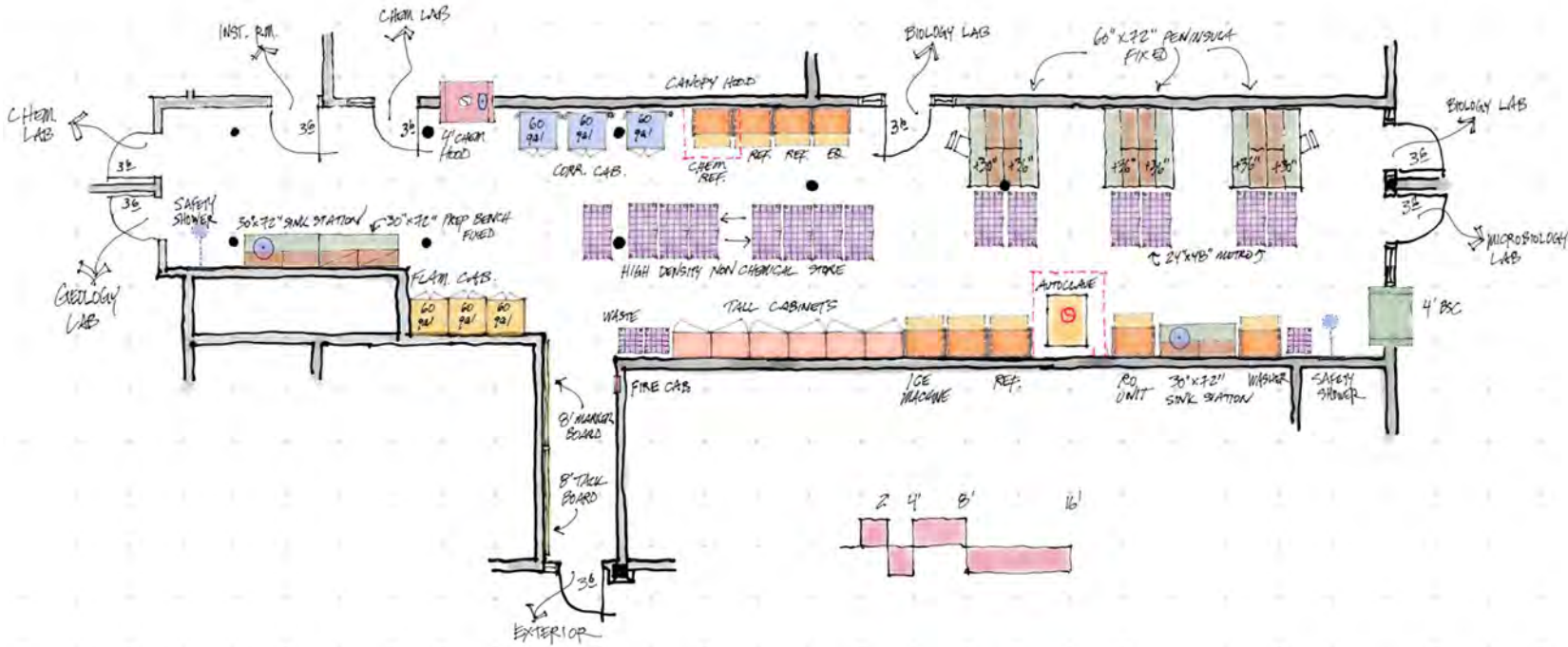


CHEMISTRY ISLAND SECTION

SMALL CHEMISTRY LAB COLLEGE OF THE DESERT GENSLER/CAB 2021 NOV 11



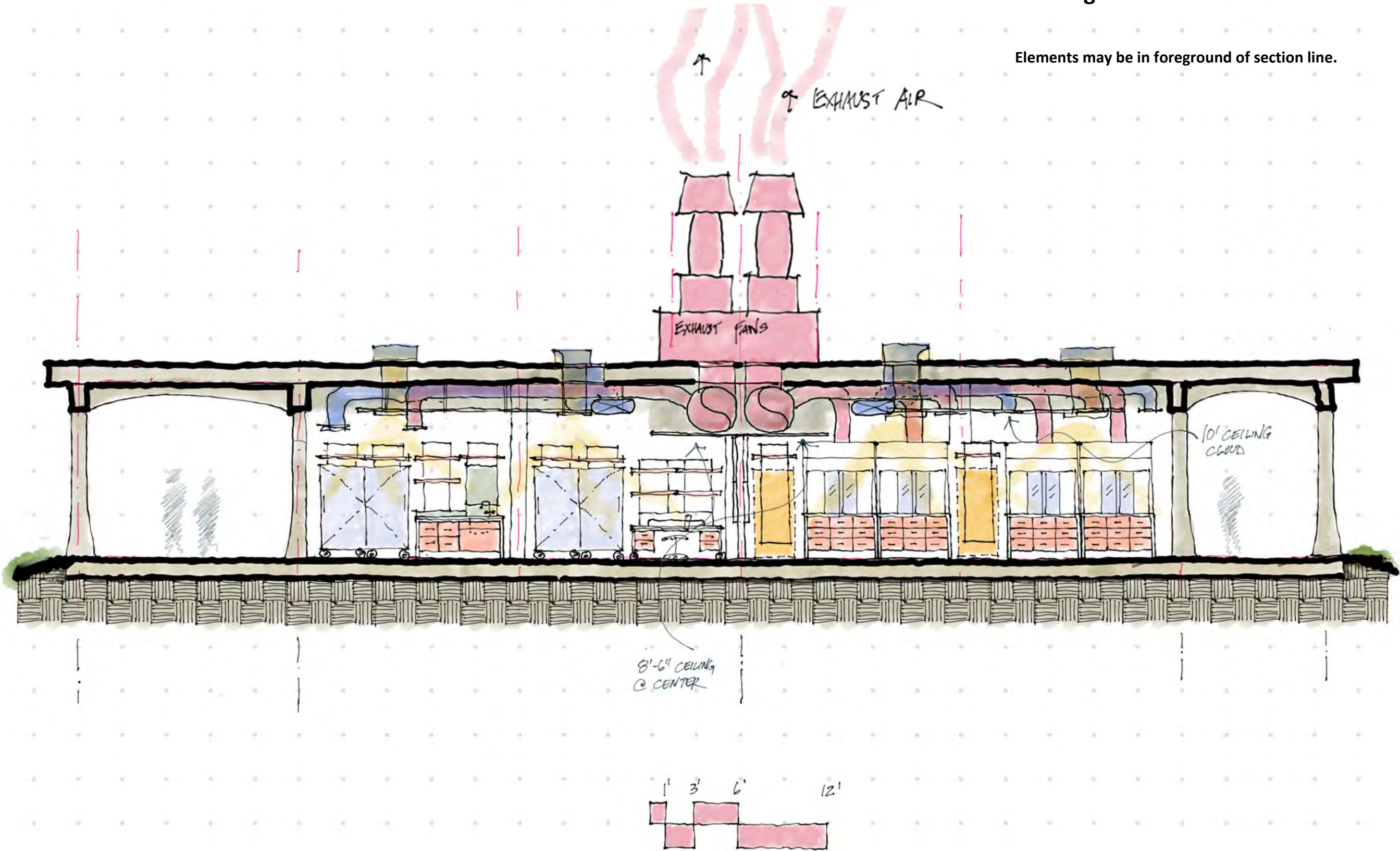
SPACE FUNCTION		MECHANICAL	
Common Lab Service room for biology, chemistry, and geology. Each discipline will have dedicated storage and equipment. Dedicated washers will be provided for biology and chemistry. Lab furnishings are designed to be moveable as much as possible. Instrument Room is accessible through the Organic Chemistry Lab.		Temperature	72° F +/- 2° F
		Air	100% exhaust- up to 8 air changes per hour 6 air changes per hour occupied 4 air changes per hour unoccupied
		Humidity	Ambient
		Exhaust	At ceiling; Fume hood (1200 cfm) Biological Safety Cabinet (1100 cfm)
		Pressure	Negative
		Equipment Heat Gain	50 btuh/sf
INFORMATION		PLUMBING	
Occupancy	B (Laboratory)	Tepid Water	At safety shower/eyewash
Area	~1500 ASF face of wall	Hot/Cold Water	At lab sinks
Quantity	1 room	Floor Drain	Below safety shower
Capacity	~3 faculty and/or ~3 Instructional Aides at one time	Vacuum	At fume hoods and perimeter sink station benches
Security	Card Reader	Natural Gas	At fume hoods Gas shut-off valve
Hours of Operation	24/7/365- required for chemical storage	Compressed Air	None
ARCHITECTURAL		ELECTRICAL	
Floor	Vinyl tile or sealed concrete, rubber base	Power	115v duplex and fourplex at perimeter wall 208v at washers max 8 plugs per circuit
Walls	Painted gyp board over metal studs	Data	Wireless and hardwire
Ceiling	Ceiling cloud (open at perimeter) at 9'	Controls	Occupancy sensor and manual override
Doors	3'-6"x8'-0" at all locations	Lighting	LED at 500 LUX
Light Attenuation	None	Emergency Power	None
Sound Attenuation	NC 45 or less	UPS	Point-of-use polisher at one sink
STRUCTURAL		FURNISHINGS	
Vibration Attenuation	Existing slab at grade	Contractor Furnished	Chemical Fume Hood- Double Side Biological Safety Cabinet- Double Side Lab casework, sinks, tops, fittings Chemical storage cabinets Glassware washer Ice machine Autoclave with steam canopy Metro shelf units Safety shower/eyewash Lab supplies, chemicals, chairs
Live Load	125 lbs/sf	College Furnished	



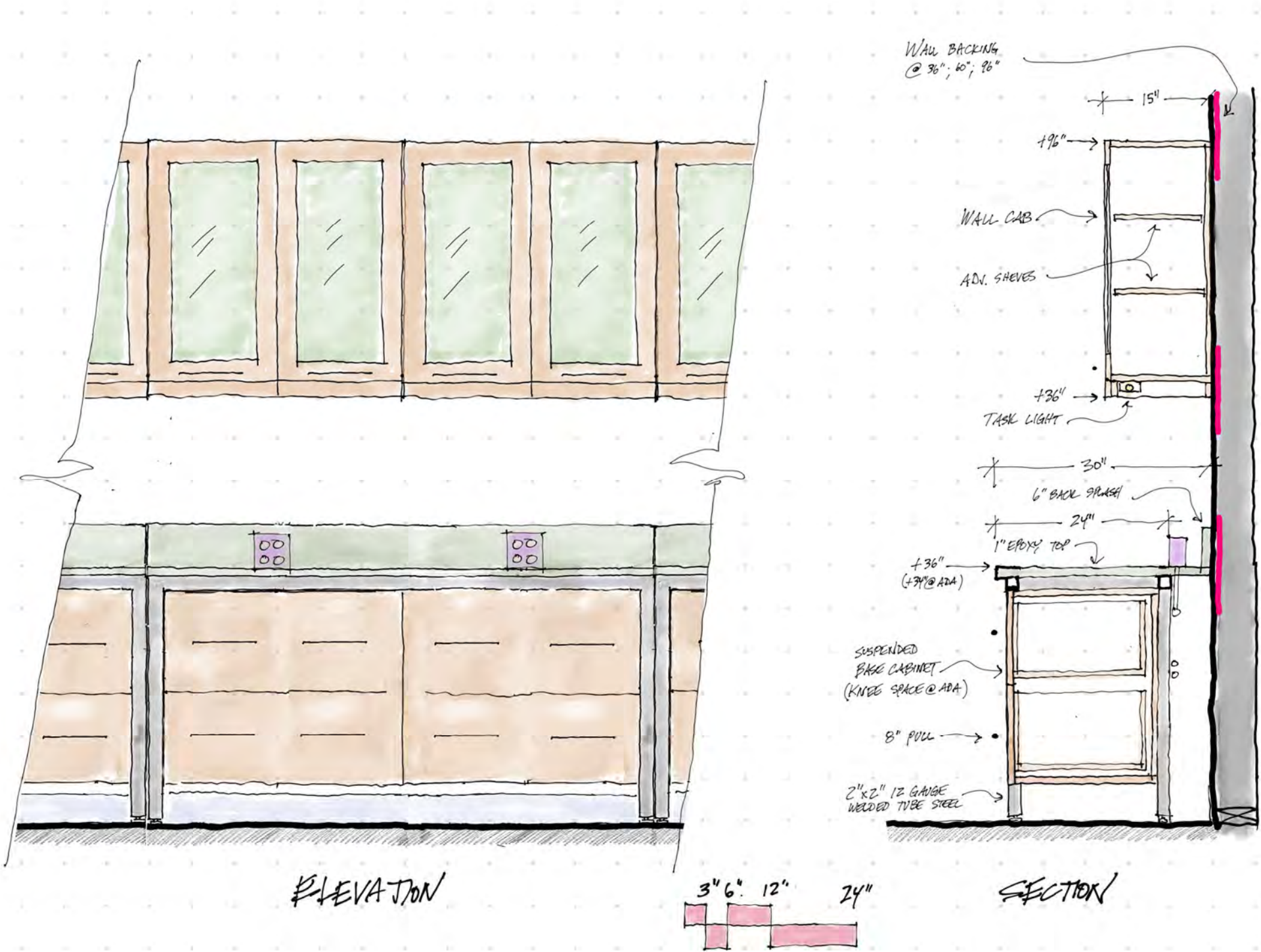
Illustrations are conceptual and may change as design develops.

CONCEPT SECTION SKETCH
Looking west

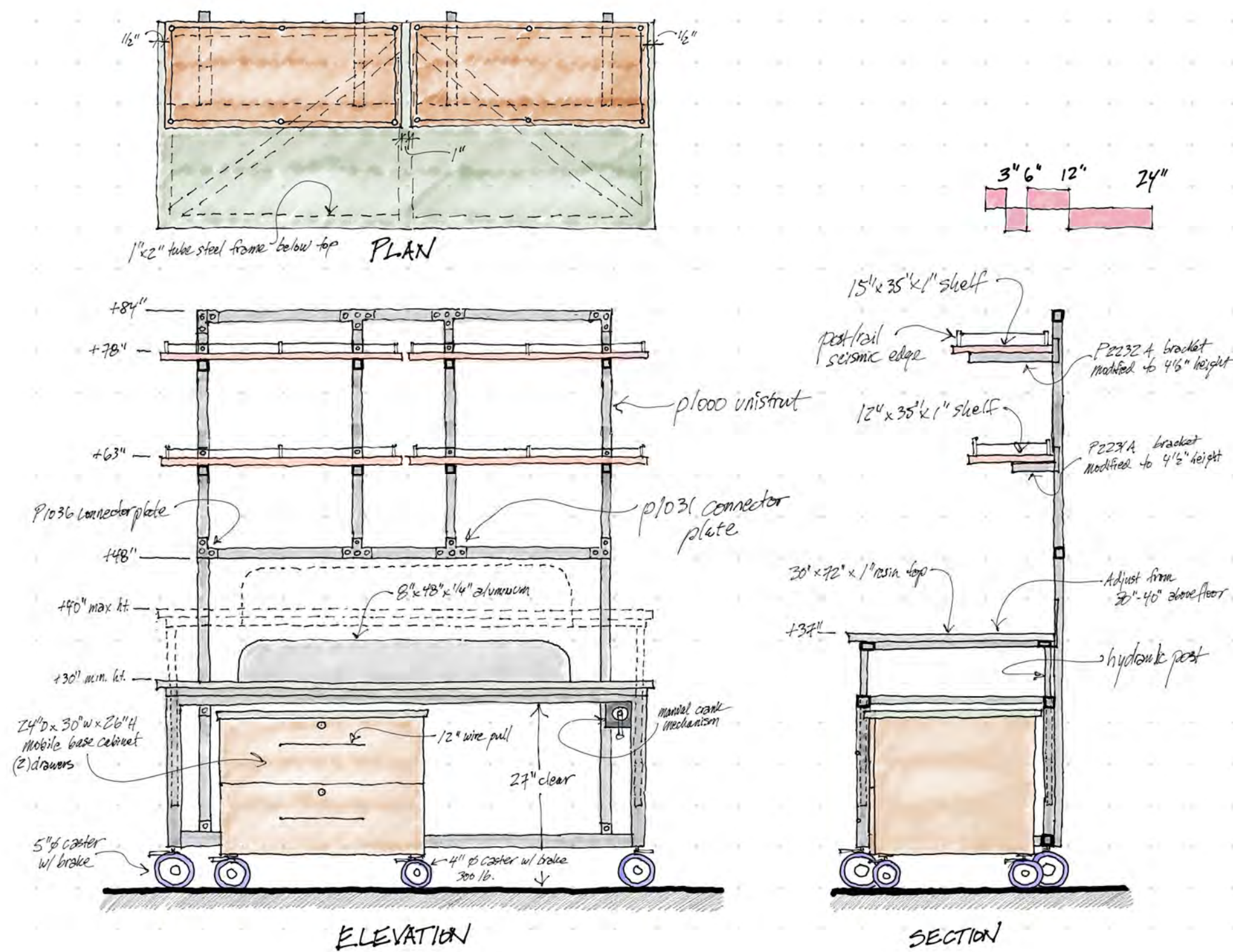
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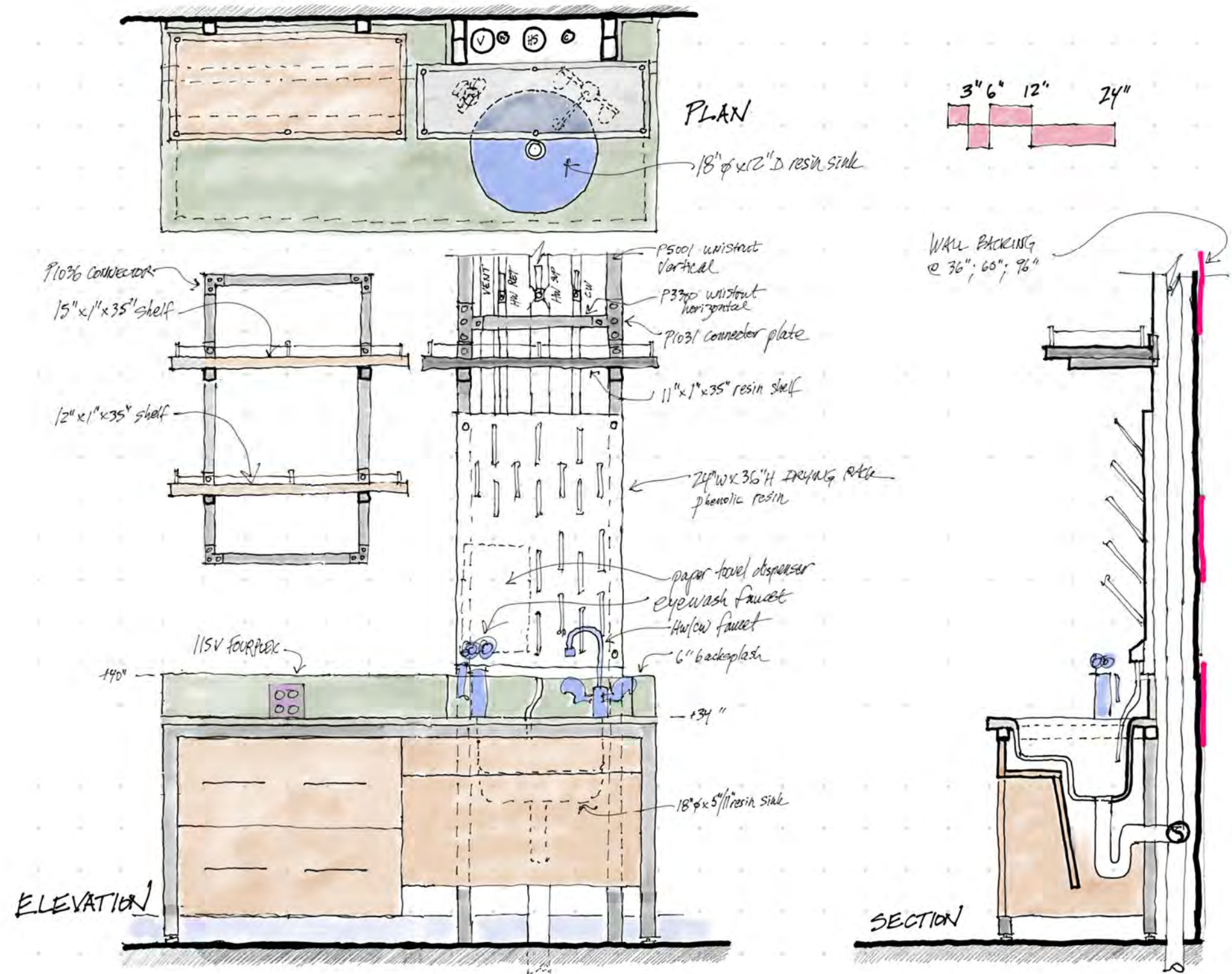
WALL BENCH SECTION SKETCH



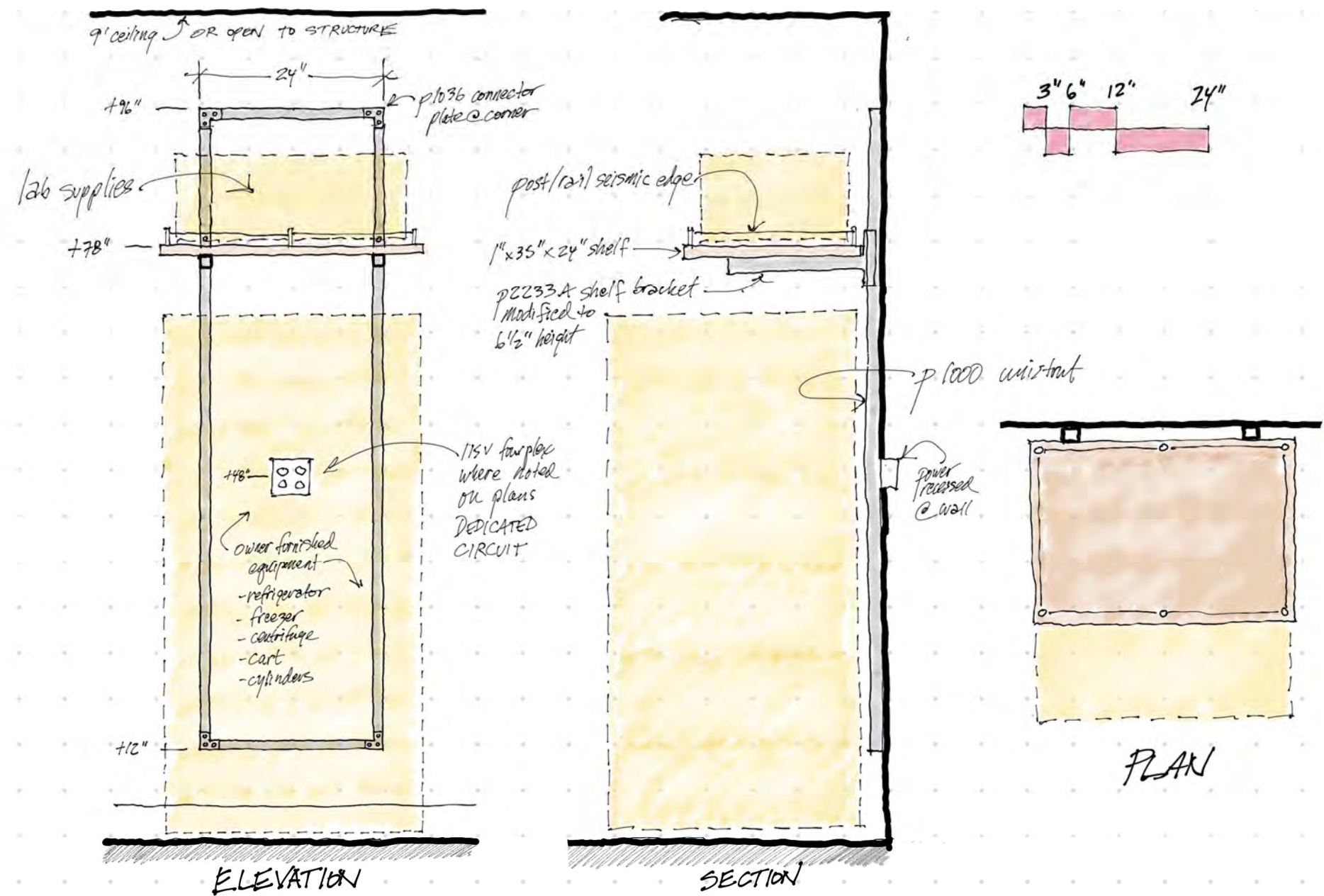
MOBILE WALL BENCH SECTION SKETCH



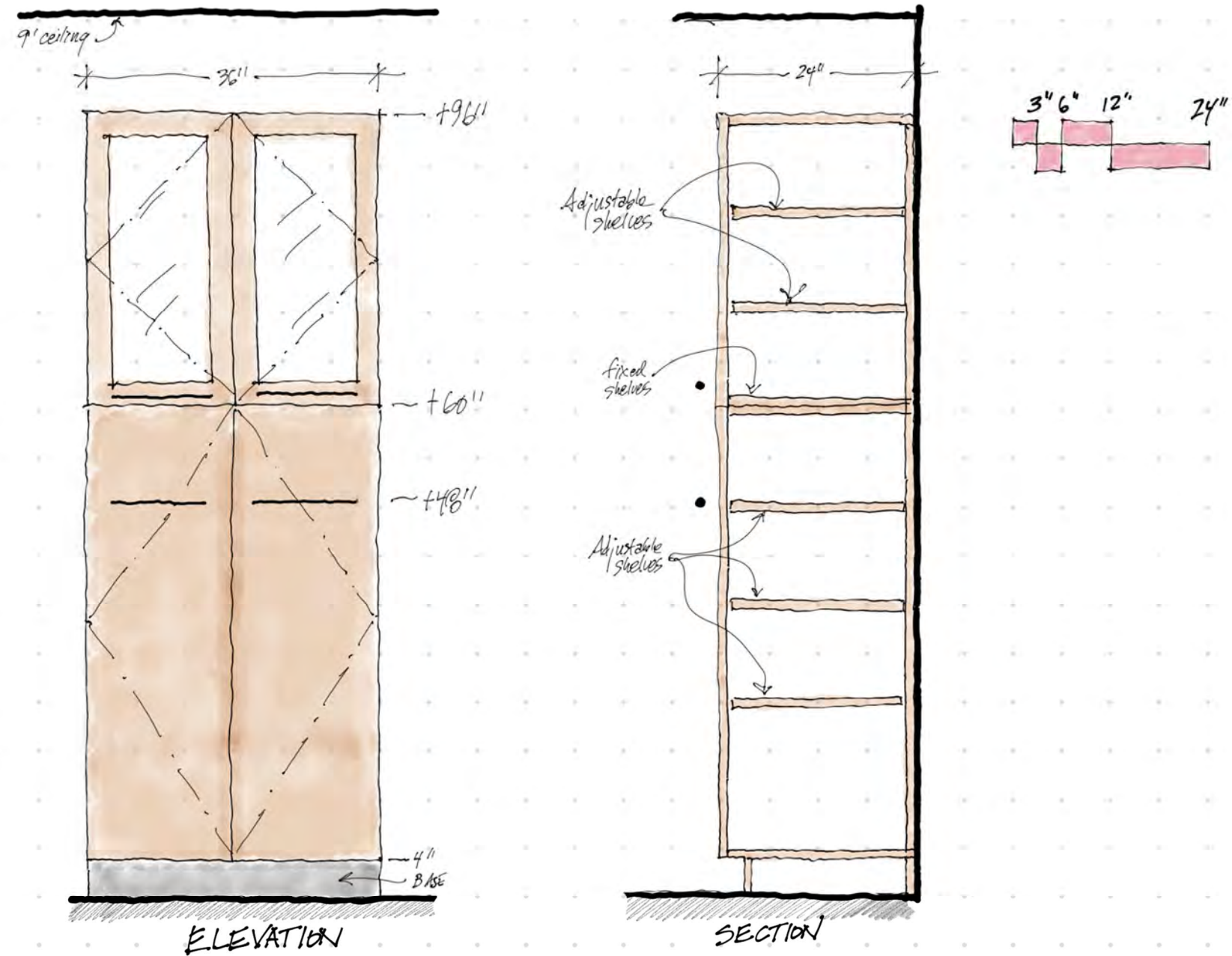
SINK BENCH SECTION SKETCH



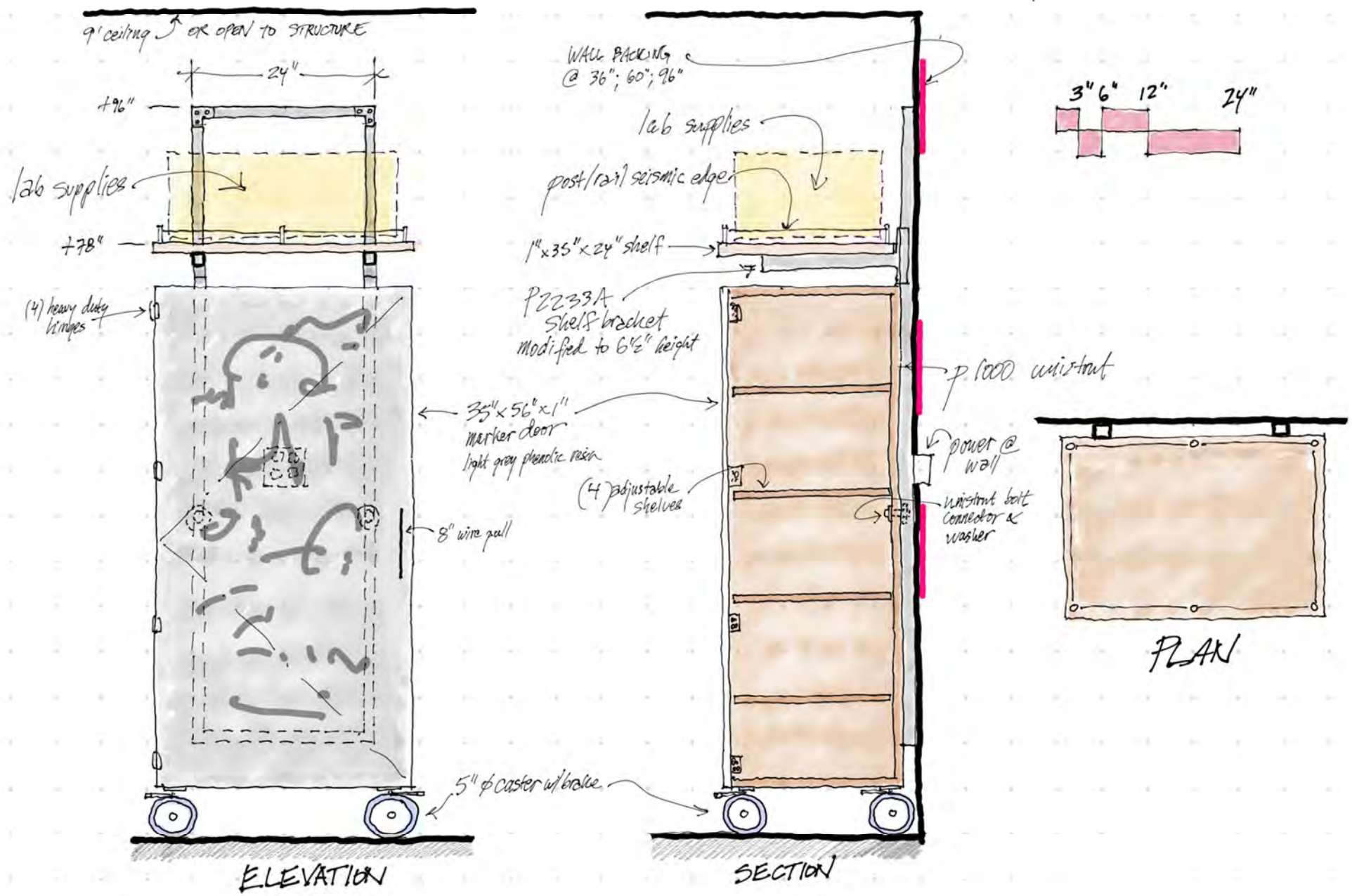
EQUIPMENT & SHELF SECTION SKETCH



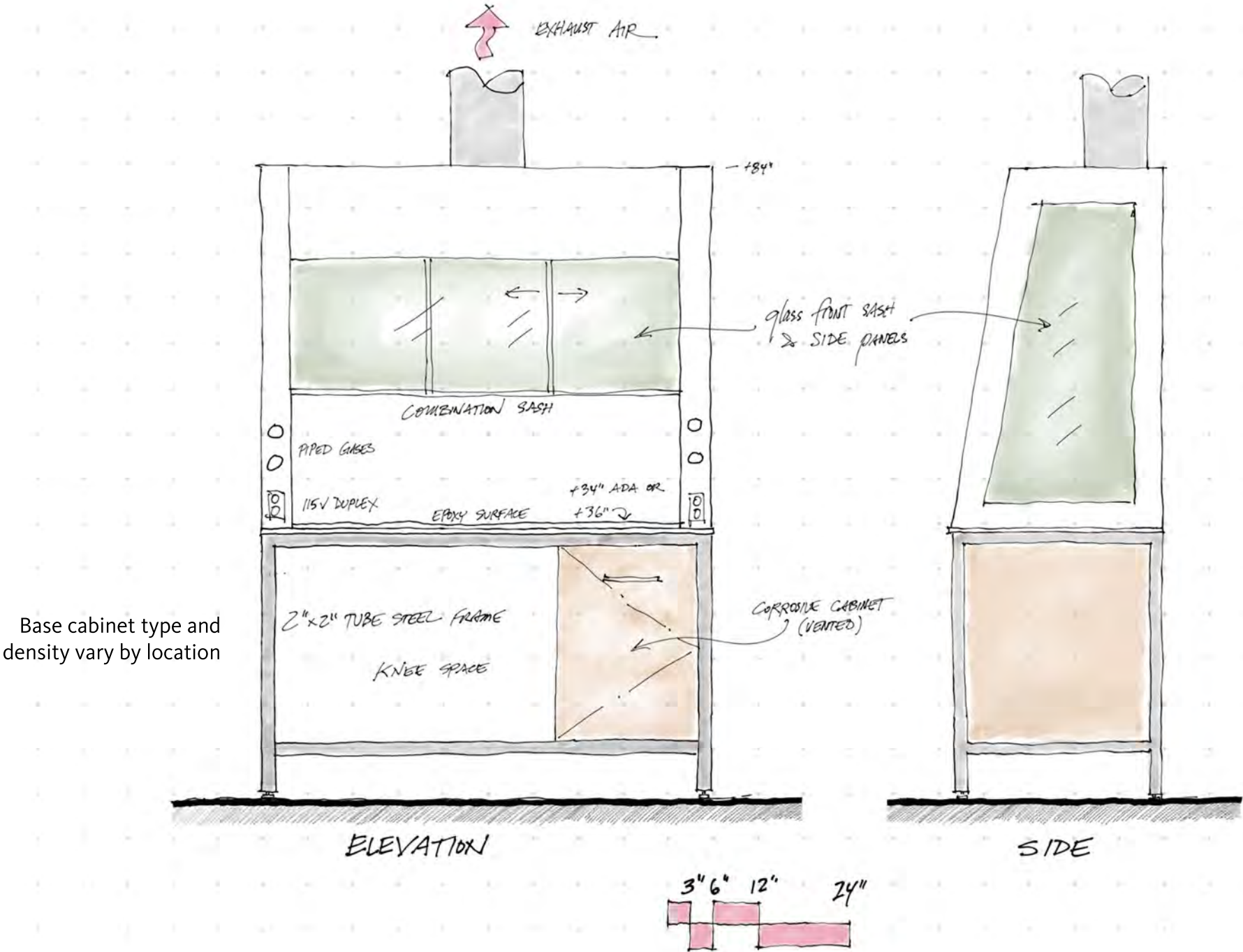
TALL MOBILE CABINET SECTION SKETCH



FIXED TALL CABINET SECTION SKETCH



FIXED TALL CABINET SECTION SKETCH



5' Protector ClassMate Laboratory Hood

View online: <https://www.labconco.com/product/5-protector-classmate-laboratory-hood-10/6768>



Overview

The patented Protector ClassMate Laboratory Hood is designed to meet the needs of instructional laboratories. Clear back and sides and taller front viewing window provide enhanced visibility for conducting chemistry demonstrations or observing students using the hood. The clear back also does not obstruct visibility when hoods are placed back-to-back in an island configuration.

Fully-featured with baffle and air foil, this high-performance by-pass hood maintains safe airflow while conserving energy. The Protector ClassMate Hood is benchtop design and offered in 4', 5', and 6' widths. Models with combination style sashes are also available.

Catalog Number: 160505102

Specifications

- **Weight:** 530.0 lbs
- **Weight metric:** 240.4 kg
- **Dimensions:** 60.0" w x 32.7" d x 59.0" h
- **Dimensions metric:** 152.4 x 81.9 x 149.9 cm
- **Electrical:** 100-115V, 50/60 Hz, 10A
- **Product Subcategory:** Educational
- **Nominal Width:** 5'
- **Sash Movement Direction:** Combination (Vertical & Horizontal)

- **Region:** International, U.S. and Canada
- **Blower Requirements:** Remote blower required
- **Conformance:** ANSI Z99.5, ASHRAE 110, ASTM ASSEMBLY 45, SE UL 18
- **Electr:** ADJUSTABLE HEIGHT MOBILE PROTEAN LAB BENCH WITH HAND CRANK SYSTEM
- **Lighti:** FINISH: POWDER COATED
- **Servic:**
- **Style:**

Freestanding SteamScrubber Glassware Washer with Viewing Window and Light

View online: <https://www.labconco.com/product/freestanding-steamscrubber-glassware-washer-with-viewing-window-and-light-10/6769>



Overview

SteamScrubber Glassware Washer offers a variety of wide-mouth and general purpose wash parameters and washer set temperature of 93° C (199° F), set removed. Heated air is forced into glassware to completion.

SteamScrubber Glassware Washers come standard with stainless steel Upper and Lower Standard Racks that accommodate basket inserts for a wide variety of wide-mouth laboratory glassware and assorted labware. Specialized inserts for test tubes, culture tubes, small utensils, BOD bottles, and petri dishes make the SteamScrubber exceptionally versatile. It can accommodate Upper and Lower Spindle Racks (for forced air drying through spindles see [FlaskScrubber washers](#)).

Use our [Glassware Washer Selection Tools](#) for the right options and components

[SEE OUR GREEN INITIATIVES](#)

Specifications

- **Weight:** 234.0 lbs
- **Weight metric:** 106.1 kg
- **Dimensions:** 24.3" w x 27.8" d x 32.2-36.2" h
- **Dimensions metric:** 61.7" w x 70.6" d x 81.8-91.9 h cm
- **Electrical:** 230V, 50/60 Hz, 11 A, 1P. Requires dedicated 20A circuit.
- **Product Subcategory:** SteamScrubber

- **Style:** Freestanding
- **Electric Heating Phases:** 230V, 50/60 Hz, Single Phase
- **Region:** International, U.S. and Canada
- **ADA-Compliance:** ADA Height
- **Conformance:** CAN/CSA C22.2, CE, ETL, UL
- **Viewing Window:** Yes



CONSOLIDATED
STERILIZER SYSTEMS

EZ-Glide™ Lab Series Steam Sterilizers
General Specifications

General Specification
Steam Sterilizer, EZ-Glide™ Vertical Sliding Door, Single Chamber, Double Wall

Consolidated EZ-Glide™ Series Sterilizers are designed to sterilize at temperatures between 212° F and 275° F* (100° C and 135° C*) through the use of steam. Choose a stainless steel vessel construction in a variety of sizes and programmable control options for pre-vacuum or gravity operation. Consolidated sterilizers offers a range of performance options to meet the most demanding applications in clinical, animal and life science, biotechnology, pharmaceutical, and commercial/industrial applications.

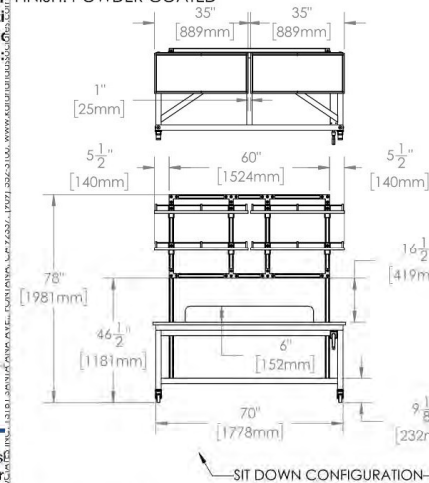
* Exact upper temperature limit is model specific and may vary depending on model and/or options. Contact Consolidated for a solution tailored to your requirements.

Features and Benefits

Simplified Maintenance, Low Cost of Ownership.
All Consolidated sterilizers are manufactured in the USA and built from commonly available parts to allow quick and cost effective field-level service and maintenance.

Serviceability.
Easy access to replaceable components, local component availability and common electrical and plumbing parts permit qualified facility or area service companies to

TABLE HEIGHT
MIN HEIGHT W/ TOP: 30"H [762mm]
MAX HEIGHT W/ TOP: 40"H [1016mm]
INSTALLED AT: 36"H [914mm]



- ERGONOMIC HEIGHT ADJUSTABLE SYSTEM OPTIONS**
- 1,000 LBS OR 1,500 LBS LIFTING CAPACITY
 - 6" TO 16" STROKE LENGTH
 - MANUAL AND ELECTRICAL OPERATION

PROJECT	CLIENT	PHONE: (909) 502-5100	
DRAWN BY: P.V.	ADDRESS: 13181 SANTA ANA AVE., PORTANA, CA 92687	www.karlenandassociates.com	
COMMENTS:			
SCALE: NTS	DATE: 02/04/21	PAGE: 1 OF 2	

Shower Head: 10" diameter stainless steel with 20 GPM flow control. Furnished with vertical supply pipe and ceiling escutcheon for mounting; shower head at desired height below finished ceiling.

Shower Valve: 1 IPS brass stay-open ball valve with stainless steel "panic bar" actuator.

Cover/Drain Pan: 16 gauge stainless steel combination cover and drain pan. Grasping "panic bar" handle and opening cover pulls spray head assembly down from vertical to horizontal position, activating water flow. While unit is in operation, waste water is collected in drain pan and returned into cabinet for drainage. Unit remains in operation until cover is returned to closed position.

Eye/Face Wash Spray Head Assembly: Two FS-Plus™ spray heads mounted on supply arms. Each spray head has individually adjustable flow control and filter to remove impurities from water flow.

Eye/Face Wash Valve: 1/2" IPS brass plug-type valve with O-ring seals. Furnished with in-line strainer to protect valve from debris and foreign matter.

Mounting: 16 gauge stainless steel cabinet with flange featuring 3/8" return for recessed mounting in wall. Unit fits in standard 3 5/8" deep wall.

Pipe and Fittings: Exposed pipe and escutcheon are brushed stainless steel.

Supply: 1" NPT female inlet.

Waste: 2" NPT female outlet.

Sign: ANSI-compliant identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

U.S. Patent 5,768,721

Available Options

- ☐ PCC Polished chrome plated brass shower supply nipple.
- ☐ AP250-065 Modesty Curtain
- ☐ AP280-235 Electric Light and Alarm Horn
- ☐ AP3800 Thermostatic Mixing Valve

Models	
3AV (20" x 20" x 36")	
2AV (26" x 26" x 36")	
2BV (26" x 26" x 48")	

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- Model Sizes and Weights..... 2
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Consolidated EZ-Glide™ Series Sterilizers are available in single door models. A versatile control system offers a range of performance options to meet the most demanding applications in clinical, life science, biotechnology, pharmaceutical, and commercial/industrial applications. Model 3AVCT shown with 17™ programmable logic controller.

Recessed Laboratory Units

with Drain Pan, Exposed Shower Head

Each unit features a shower head and shower valve assembly, cover in it into unit for

needed

requirements for



Note: Drain unit (optional AP280-235) electric light and alarm horn unit (not included).

EQUIPMENT CUT SHEETS

FUME HOOD

FLAMMABLE STORAGE CABINET

CORROSIVE STORAGE CABINET

AUTOClave

RO UNIT

WASHER

PURE WATER POLISHER

SAFETY SHOWER/EYEWASH

LAB SINK

LAB SINK FAUCET

EYEWASH FAUCET

GAS OR VACUUM BALL VALVE

LAB BENCHTOP MATERIAL

LAB CASEWORK HINGE

LAB CASEWORK PULL

LAB CASEWORK DRAWER GLIDE

PROTEAN LAB BENCH

TASK LIGHT

PROTEAN SERVICE MODULE

METRO SHELF

LAB STOOL

5' Protector ClassMate Laboratory Hood



View online: <https://www.labconco.com/product/5-protector-classmate-laboratory-hood-10/6768>



Overview

The patented Protector ClassMate Laboratory Hood is designed to meet the needs of instructional laboratories. Clear back and sides and taller front viewing window provide enhanced visibility for conducting chemistry demonstrations or observing students using the hood. The clear back also does not obstruct visibility when hoods are placed back-to-back in an island configuration.

Fully-featured with baffle and air foil, this high-performance by-pass hood maintains safe airflow while conserving energy. The Protector ClassMate Hood is benchtop design and offered in 4', 5', and 6' widths. Models with combination style sashes are also available.

Catalog Number: 160505102

Specifications

- **Weight:** 530.0 lbs
- **Weight metric:** 240.4 kg
- **Dimensions:** 60.0" w x 32.7" d x 59.0" h
- **Dimensions metric:** 152.4 x 81.9 x 149.9 cm
- **Electrical:** 100-115V, 50/60 Hz, 10A
- **Product Subcategory:** Educational
- **Nominal Width:** 5'
- **Sash Movement Direction:** Combination (Vertical & Horizontal)
- **Region:** International, U.S. and Canada
- **Blower Requirements:** Remote blower required
- **Conformance:** ANSI Z9.5, ASHRAE 110, ASTM E84, CAN/CSA C22.2, CFR 29, NFPA 45, SEFA 1, SEFA 8 (Cabinet Surface Finish), UL 1805, UL 61010
- **Electrical Duplexes:** 1
- **Lighting:** LED
- **Service Fixtures:** 2
- **Style:** Benchtop

FUME HOOD CUT SHEET

- 5' Chem Hood: 700 c.f.m. VAV.
- 4' Chem Hood single sash: 600 c.f.m. VAV.
- 4' Chem Hood double sash: 1200 c.f.m. VAV.

Labconco will be the basis of design, with similar models by Kewaunee Scientific and Mott Scientific as acceptable substitutions.

Chemical fume hoods will be specified as Labconco Protector Classmate model with glass side panels. There will be two 6' fume hoods in the Chemistry lab, and one 4' fume hood in each of the lab prep rooms. The fume hood in chemistry located at the exterior window will have a glass back panel. Fume hoods shall be specified with combination sashes so that the project will not be subject to the added fume hood controls required by the 2019 California energy code requirement for fume hoods. Combination sash fume hoods are exempt from compliance with the added controls.

Fume hoods between organic chemistry lab and prep room, and microbiology lab and biology lab will be 4' double sash type.

Fume hoods will be specified with pre-wired duplex electrical outlets at each side of fume hood, with a single J box point of connection at the top of the hood.

Fume hoods will be specified with pre-plumbed vacuum and gas at both sides of 5' lab fume hoods and at one side of 4' fume hoods.

Water and cup sink will not be provided at fume hoods.

Fume hoods will be placed on tube steel metal frames, similar to mobile lab wall bench design.

Model No.	6010X
Color	Yellow
Material Specifications	18-Gauge Steel
FM Approval	Yes
OSHA Compliance	Yes
Complies with NFPA Code 30	Yes
Door Style	Self-close
Dimensions, Exterior	34" W x 34" D x 65" H (86.4 x 86.4 x 165.1 cm)
Dimensions, Interior	30.75" W x 30.34" D x 60.5" H (78.1 x 77.1 x 153.7 cm)
Number of Doors	2
Number of Shelves	2
Uniform Fire Code	Yes
Lock	Yes
Gallon Capacity	60
Liter Capacity	227.1
Replacement Shelf Model No.	29944
Shelf Depth	29" (73.7 cm)
Net Weight, lbs	331
Net Weight, kgs	150.1
Adjustable Shelf	Yes



FLAMMABLE STORAGE CABINET

Quantity: 2.

Location: Prep room.

Flammable cabinets shall be specified without venting, per NFPA and NIH design guidelines.



CORROSIVE STORAGE CABINET

Model No.	CRA6010X
Color	Blue
Material Specifications	18-Gauge Steel
FM Approval	Yes
OSHA Compliance	Yes
Complies with NFPA Code 30	Yes
Door Style	Self-close
Dimensions, Exterior	34" W x 34" D x 65" H (86.4 x 86.4 x 165.1 cm)
Dimensions, Interior	30.75" W x 30.3" D x 60.5" H (78.1 x 77.1 x 153.7 cm)
Number of Doors	2
Number of Shelves	2
Uniform Fire Code	Yes
Lock	Yes
Gallon Capacity	60
Liter Capacity	227.1
Replacement Shelf Model No.	29944
Shelf Depth	29" (73.7 cm)
Net Weight, lbs	332
Net Weight, kgs	150.6
Adjustable Shelf	Yes



Quantity: 2.

Location: Prep room.

Corrosive cabinets shall be specified with 2” diameter high and low hard pipe venting, per NFPA and NIH design guidelines. Connection of vent shall be by Division 22.



Models	
3AV (20" x 20" x 38")	
26AV (26" x 26" x 39")	
26BV (26" x 26" x 49")	

EZ-Glide™ Lab Series Steam Sterilizers

General Specifications

General Specification

Steam Sterilizer, EZ-Glide™ Vertical Sliding Door, Single Chamber, Double Wall

Consolidated EZ-Glide™ Series Sterilizers are designed to sterilize at temperatures between 212° F and 275° F* (100° C and 135° C*) through the use of steam. Choose a stainless steel vessel construction in a variety of sizes and programmable control options for pre-vacuum or gravity operation. Consolidated sterilizers offers a range of performance options to meet the most demanding applications in clinical, animal and life science, biotechnology, pharmaceutical, and commercial/industrial applications.

* Exact upper temperature limit is model specific and may vary depending on model and/or options. Contact Consolidated for a solution tailored to your requirements.

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- Model Sizes and Weights.....2
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- Utility Information.....13

Features and Benefits

Simplified Maintenance, Low Cost of Ownership.

All Consolidated sterilizers are manufactured in the USA and built from commonly available parts to allow quick and cost effective field-level service and maintenance.

Serviceability.

Easy access to replaceable components, local component availability and common electrical and plumbing parts permit qualified facility or area service companies to maintain the sterilizer.

Control Flexibility.

A choice of programmable controllers allows a broad range of performance functions, complete with alarm, monitoring and communications required for internal or third-party compliance.

Performance Cycles—Basic to Advanced.

The fully-jacketed sterilizer design permits vacuum and pressure control when configured for pre-vacuum, post-vacuum, and more sophisticated functions such as air-over-pressure. Consolidated sterilizers are ideal for sterilizing wrapped and unwrapped goods, liquids, waste, and other applications.

Green and Environmentally Friendly.

Unique, new technologies reduce water and energy consumption without compromising performance.



Consolidated EZ-Glide™ Series Sterilizers are available in single door models. A versatile control system offers a range of performance options to meet the most demanding applications in clinical, life science, biotechnology, pharmaceutical, and commercial/industrial applications. Model 3AV-X1 shown with X1™ programmable logic controller.

AUTOCLAVE CUT SHEET

Quantity: 1.

Location: Prep Room.

Autoclave requires steam canopy, 208v or 480v 3 phase power, floor sink, and RO water feed.

Unit 3AV will be specified, with 20"x20"x38" interior chamber.

Table 3: General Connections

Name	Symbol	Connection on Sterilizer	MEP Requirements ¹³
Wastewater Cooling	Ⓜ ₁	½" NPT	45 psig dynamic min, 80 psig static max, ¾"-1" NPT, 12 gpm capacity, with shut off valve and union ¹¹
Controls System	ⓔ ₁	NEMA 5-15 Plug	120VAC 10A non-GFCI outlet/220VAC 10A hard wire
Ethernet Port (Optional)	ⓔ ₅	RJ-45	Standard RJ-45 ethernet cable with internet access
Sterilizer Drain	ⓓ ₁	1 ½" Sweat (NPT on units with WaterEco)	2 ½" air gap, 3" diameter minimum funnel required, 15 gpm, min 1 ½" drain piping location external to unit footprint recommended
Direct Steam (Optional)	Ⓢ	½" NPT	50-80 psig dynamic, ¾"-1" NPT, 180 lbs/hr capacity, insulated line with shut-off valve and union
Dry Contacts (Optional)	ⓔ ₄	2-Wire Terminal	2 signal wires per contact compatible with Form C Dry Contacts
Compressed Air (Optional)	ⓐ	½" NPT	50-75 psig, 10-35 SCFM, 99% dry & oil free, backflow preventer not provided by CSS

Table 4: Optional Vacuum Systems (maximum one per unit)

Name	Symbol	Connection on Sterilizer	MEP Requirements ¹³
Economy Post-Vac	Ⓜ ₂	½" NPT	45 psig dynamic min, 80 psig static max, ¾"-1" NPT, 12 gpm capacity, with shut off valve and union ¹¹
Hi-Vac with Water Ejector	Ⓜ ₂	½" NPT	45 psig dynamic min, 80 psig static max, ¾"-1" NPT, 12 gpm capacity, with shut off valve and union ¹¹
Booster Pump	ⓔ ₂	Hard Wire	120VAC/208-230VAC, single phase, minimum 20 Amp circuit required
Vacuum Pump - Electrical	ⓔ ₂	Hard Wire	208/240/480VAC, 3-phase, minimum 20 Amp circuit required
Vacuum Pump - Water	Ⓜ ₂	½" NPT	45 psig dynamic min, 80 psig static max, ¾"-1" NPT, 12 gpm capacity, with shut off valve and union ¹¹

11. Ⓜ₁ and Ⓜ₂ cold water connections can be from a single source for a combined 12 gpm capacity. Water quality must comply with the General Vacuum Device & Quench specification in Table 9, Backflow preventer not provided by CSS.

Table 5: Optional Electric Steam Generator

Name	Symbol	Connection on Sterilizer	MEP Requirements ¹³
Power Supply	ⓔ ₃	Hard Wire	Available in 208/240/380/480VAC, 3-phase, see Table 7 for Amp Draw, Fused Disconnect Required.
Generator Water Feed	Ⓜ ₃	½" NPT	45 psig dynamic min, 80 psig static max, ¾"-1" NPT, 1 gpm, with shut off valve and union ¹²
Manual Generator Drain	ⓓ ₂	½" NPT	See D1 in Table 3

12. Generator feedwater must comply with the Generator Water Feed specification in Table 9. Backflow preventer not provided by CSS.



WPS-1200 Water Purification Systems

Consolidated offers two water systems as part of the WPS-1200 line. The WPS-1200-RO reverse osmosis water purification system produces Type IV laboratory-grade water ideal for steam sterilizers and glassware washers per ASTM D1193-06. This robust system includes an RO module and a reservoir tank. Each module consists of two pre-treatment filters and a reverse osmosis filter. The pre-treatment filters remove particles larger than 5 microns, free chlorine, chloramines, and other undesirable traits. The reverse osmosis membrane filter removes greater than 90% of inorganic ions, hardness, and dissolved solids, as well as other particles and microorganisms.

If deionized water is required, the WPS-1200-DI system incorporates extra filtration to produce deionized water with >1 megohm•cm resistivity for clean steam or other high purity applications.

WPS-1200 Benefits

- Improves equipment life and performance by removing at least 90% of all dissolved solids that cause scale build-up.
- Designed specifically for autoclaves and glassware washers.
- Reduction of scale build up translates to increased uptime as well as reduced maintenance and energy costs.
- Designed to be very low maintenance and easy to use with a low cost of ownership.
- System includes a pressurized storage tank.
- Tank is floor standing and can be mounted remotely.
- 100% seamless composite construction with durable, high density polyethylene inner liner.

WPS-1200 Features

- Filters have a special 1/4 turn quick change design that allows simple, quick and clean filter replacement. Filters can be easily changed in minutes without the use of tools or the need for a service call.
- Flexible design allows system to be installed integral to the sterilizer¹ or on a nearby wall.
- Pressurized storage allows purified water to be used for general lab use.
- Environmentally safe, 100% lead-free.
- Color indicator on DI filter signals when to change the filter.

¹ Increases the footprint of the sterilizer

Quick, Clean, Hassle-Free
Filter Replacement.
NO Service Calls.
NO Tools!

Why Purify Your Water?

Many steam sterilizers use an electric steam generator to create the required steam. When the steam is created, salts and minerals from the feed water are left behind. If hard tap water is used to generate the steam, over time these mineral deposits will accumulate and coat the generator heating elements, continually decreasing the functionality of the generator until it stops working. Consolidated's Water Purification Systems will remove these contaminants and help ensure maximum uptime.

Product Summary

Specifications	Model WPS-1200-RO	Model WPS-1200-DI
Production Water Quality	Type IV (ASTM D1193-06)	DI >1 megohm•cm
Application	For steam sterilizers with carbon steel steam generators	For steam sterilizers with stainless steel steam generators (i.e. clean steam)
Sterilizer Size (volumetric)	up to 42.4 cu.ft. 1200 liters	up to 42.4 cu.ft. 1200 liters



Model WPS-1200-RO System with RO module and 11 gallon tank shown.

RO UNIT CUT SHEET

Quantity: 1.

Location: Prep Room.

RO Unit provides RO water to Autoclave and Washer.



Specifications	Model WPS-1200-RO	Model WPS-1200-DI
Dimensions	38" H x 20.5" W x 8" D 96.5 x 52.1 x 20.3 cm	38" H x 30.5" W x 8" D 96.5 x 77.0 x 20.3 cm
Required Clearance	Add 6" (15.25 cm) on all sides for cover removal and service access.	
Operating Weight (not including storage tank)	40 lbs 18 kg	65 lbs 30 kg
Daily Production Rate*	350 gpd / 14.5 gph nominal 1,325 lpd / 55 lph	350 gpd / 14.5 gph nominal 1,325 lpd / 55 lph
Sterilizer Size (volumetric)	up to 42.4 cu.ft. 1200 liters	up to 42.4 cu.ft. 1200 liters
Tank		
Tank Dimensions	37 - 57" H x 16" D 94 - 144.8 cm x 40.6 cm	
Tank Weight (fully loaded)	110 - 210 lbs 50 - 95 kg	
Tank Volume	11 - 22 gallons 42 - 83 liters	
Water		
Facility Supplied Connection	1/2" NPT Ball Valve; 25 - 80 PSIG Dynamic; 1 GPM; 40-100 F (4.4-37.8 C)	
Drain Connection	1/4" (.64 cm) OD tube connection; Floor drain or Floor Sink; Gravity Flow	
Electrical		
115VAC/60Hz; NEMA 5-15P Plug Branch Circuit Protection 15 or 20 Amp Ground Fault		

*Feed water temperature, feed water quality and age of filters affects production rate. Incoming water must meet water quality requirements.

Water Feed Requirements, Carbon-Steel Steam Generators

The table below shows the recommended feed water requirements for a standard steel boiler. If water quality fails to meet maximum condition requirements listed below, then your water will require purification by the WPS-1200-RO. If you are unsure of your facility's water quality, please contact Consolidated to arrange for an initial assessment.

Characteristic	Recommended Condition	Maximum Condition
Temperature	As Supplied	140° F (60° C)
Total Hardness	0-17 mg/L	85 mg/L
Alkalinity	50-180 mg/L	360 mg/L
Total Dissolved Solids	0-150 mg/L	750 mg/L
pH	7.5-8.5	7.5-9.0
Total Silica	0.1-1.0 mg/L	2.5 mg/L
Resistivity	2,000-6,000 megohm•cm	25,000 megohm•cm*

* If water supplied is greater than 25,000 megohm•cm contact Consolidated for recommendation.

Water Feed Requirements, Stainless Steel Generators

Stainless-steel generators require deionized water >1 megohm•cm.

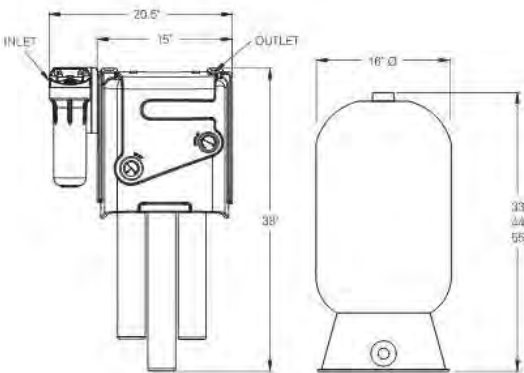
WPS-1200 Maintenance

- Proper pre-treatment is required to control scale formation and/or fouling (recommended preventive maintenance involves pre-treatment filter cartridge changes every 6 months²).
- Change RO cartridges regularly (recommended 2-3 year preventive maintenance program²).

² Feed water quality and usage affects filter life and replacement frequency.



NOTE:
Typical dimensions for the WPS-1200-RO.
Extra filter for the WPS-1200-DI Not shown.



Freestanding SteamScrubber Glassware Washer with Viewing Window and Light

View online: <https://www.labconco.com/product/freestanding-steamscrubber-glassware-washer-with-viewing-window-and-li-2/8548>



WASHER CUT SHEET



Catalog Number: 402101010

Overview

SteamScrubber Glassware Washers are designed to wash and dry a wide variety of wide-mouth and general purpose labware. Utilizing a brilliant 5" touch screen display featuring CleanWorks OS, users have full control of wash parameters and washer settings. Able to reach a maximum wash temperature of 93° C (199° F), stubborn contaminants are easily removed. Heated air is forced into the chamber, effectively drying glassware to completion.

SteamScrubber Glassware Washers come standard with stainless steel Upper and Lower Standard Racks that accommodate basket inserts for a wide variety of wide-mouth laboratory glassware and assorted labware. Specialized inserts for test tubes, culture tubes, small utensils, BOD bottles, and petri dishes make the SteamScrubber exceptionally versatile. It can accommodate Upper and Lower Spindle Racks (for forced air drying through spindles [see FlaskScrubber washers](#)).

[Use our Glassware Washer Selection Tools](#) for the right options and components

[SEE OUR GREEN INITIATIVES](#)

Quantity: 1.
Location: Prep Room.

Washers will be specified as freestanding type, with view window, and with 208v plug (not hardwire). Washer will not be built into lab casework so as to allow for ease of maintenance.

RO water will be provided for rinse cycle from RO unit.

A large floor drain will need to be provided washer.

Specifications

- **Weight:** 234.0 lbs
- **Weight metric:** 106.1 kg
- **Dimensions:** 24.3" w x 27.8" d x 32.2-36.2" h
- **Dimensions metric:** 61.7 w x 70.6 d x 81.8-91.9 h cm
- **Electrical:** 230V, 50/60 Hz, 11 A, 1P. Requires dedicated 20A circuit.
- **Product Subcategory:** SteamScrubber
- **Style:** Freestanding
- **Electric Heating Phases:** 230V, 50/60 Hz, Single Phase
- **Region:** International, U.S. and Canada
- **ADA-Compliance:** ADA Height
- **Conformance:** CAN/CSA C22.2, CE, ETL, UL
- **Viewing Window:** Yes

Versatile configurations give the best fit for your space

Because each lab is unique, the Milli-Q® IQ 7003/05/10/15 system lets you optimize valuable lab space to help maximize your efficiency.

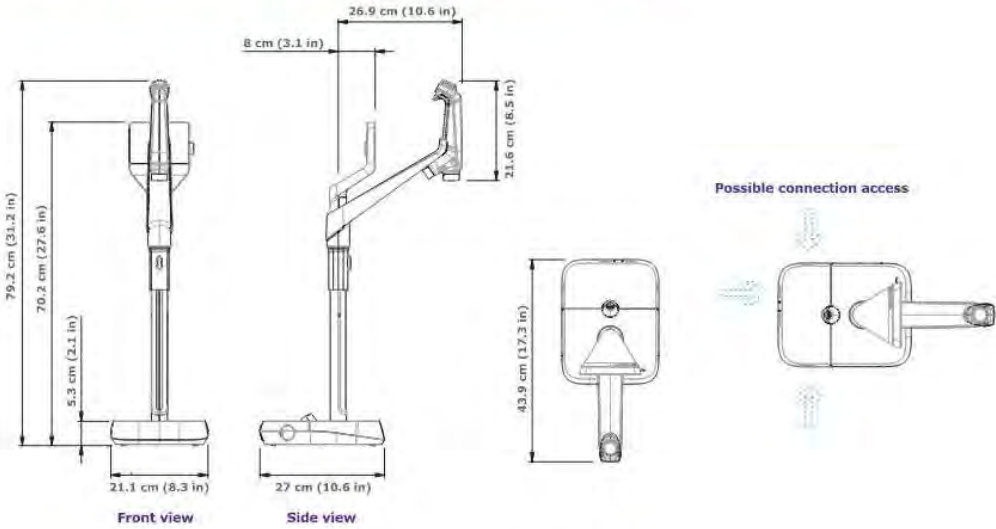
You may choose to wall mount the purification unit and tank, store them under the bench, or a combination of both to suit your space requirements. Designed for easy integration, the units can be tucked into a corner, high up on a wall, or installed at a distance in a lab cabinet. There's no need to install near a sink and the tank does not require a drain.

Only the slim and neatly connected E-POD® and Q-POD® dispensers remain on the bench. Up to 4 POD dispensers can be supplied by a single purification unit, with an allowance of up to 5 m between PODs. This way, even scientists at distant benches — or even another lab — have access to purified water.

Cabling is available in customizable lengths and enclosed in protective sheathing for a neat, uncluttered installation.

Take advantage of optional accessories, including a foot pedal for hands-free water delivery.

E-POD® and Q-POD® dispenser specifications



Tubing and port requirements

Parameter	Description
Dispenser tubing length	0.92 m (36.22 in)
Distance from purification unit to POD dispenser	Maximum 5 m (16.4 ft)
Distance between two POD dispensers (Maximum 4 dispensers connected in series)	Maximum 5 m (16.4 ft)
POD dispenser data connection with unit	Ethernet
Electrical connection	Powered by purification unit (24–28 VDC)
Foot pedal port	3.3 V

Weights

	Dry weight	Shipping weight	Operating weight
Q-POD®/E-POD®	4.7 kg (10.4 lb)	7.2 kg (15.9 lb)	5.5 kg (12.1 lb)

Screen description and functionalities

Parameter	Description
Capacitive touchscreen	Size: 5 in; Resolution: 800 x 480
USB port	USB 2.0 Highspeed standard
Speaker	Impedance: 8 Ω/max output power: 0.5 W
Display in 9 languages	Chinese/English/French/German/Italian/Japanese/Portuguese/Russian/Spanish

PURE WATER POLISHER CUT SHEET

Quantity: 1.
Location: Prep Room.

The point-of-use system consists of 3 basic elements- 1. The benchtop dispenser unit; 2. The water purification unit; and 3. The storage tank unit. The purification unit and dispenser unit are shown below in the photo. The storage unit in the photo is located below in the base cabinet.



☐ SSBF2150 Recessed Safety Station with Drain Pan, Exposed Shower Head

Application: Recessed barrier-free eye/face wash and shower safety station with ceiling mounted exposed shower head and drain pan. Stainless steel cover provides attractive appearance and protects unit when not in use. When activated, cover serves as pan to collect waste water and return it into unit for drainage.

ADA Compliance: When installed at recommended mounting heights, unit complies with ADA requirements for accessibility by handicapped persons.

Shower Head: 10" diameter stainless steel with 20 GPM flow control. Furnished with vertical supply pipe and ceiling escutcheon for mounting shower head at desired height below finished ceiling.

Shower Valve: 1" IPS brass stay-open ball valve with stainless steel "panic bar" actuator.

Cover/Drain Pan: 16 gauge stainless steel combination cover and drain pan. Grasping "panic bar" handle and opening cover pulls spray head assembly down from vertical to horizontal position, activating water flow. While unit is in operation, waste water is collected in drain pan and returned into cabinet for drainage. Unit remains in operation until cover is returned to closed position.

Eye/Face Wash Spray Head Assembly: Two FS-Plus™ spray heads mounted on supply arms. Each spray head has individually adjustable flow control and filter to remove impurities from water flow.

Eye/Face Wash Valve: 1/2" IPS brass plug-type valve with O-ring seals. Furnished with in-line strainer to protect valve from debris and foreign matter.

Mounting: 16 gauge stainless steel cabinet with flange featuring 3/8" return for recessed mounting in wall. Unit fits in standard 3-5/8" deep wall.

Pipe and Fittings: Exposed pipe and escutcheon are brushed stainless steel.

Supply: 1" NPT female inlet.

Waste: 2" NPT female outlet.

Sign: ANSI-compliant identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

U.S. Patent 5,768,721

Available Options

- ☐ **PCC** Polished chrome plated brass shower supply nipple.
- ☐ **AP250-065** Modesty Curtain
- ☐ **AP280-235** Electric Light and Alarm Horn
- ☐ **AP3800** Thermostatic Mixing Valve



Note: Shown with optional AP280-235 electric light and alarm horn unit (sold separately).

SAFETY SHOWER/EYEWASH CUT SHEET

Quantity: 8.

Location: One in each lab and 2 in prep room.

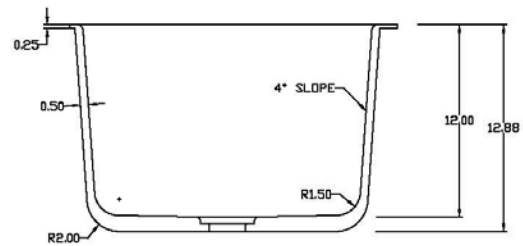
ANSI Z358.1 requires that safety showers be located such that from any point in a lab the distance from that point to the shower is no greater than 55 feet.

Safety Shower/Eyewash units will be specified as Watersaver SSBF2150 model, with recessed wall eyewash unit.

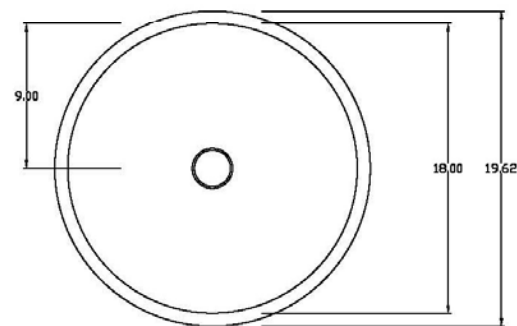
A hard drain connection inside the wall cavity must be provided by Division 22.

Floor drains located below the shower are recommended, and should be specified by Division 22.

Tepid water must be provided per ANSI standard and California Building Code.



SECTION VIEW

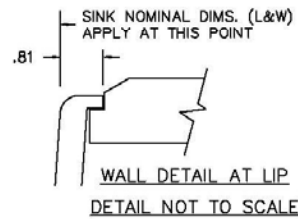


TOP VIEW

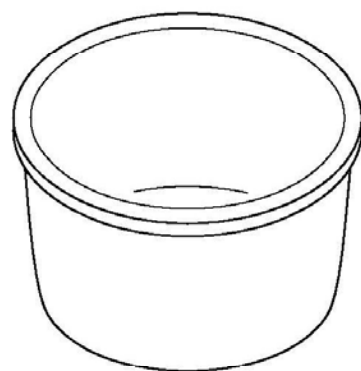


DRAIN OPENING DETAIL

SECTION NOT TO SCALE



WALL DETAIL AT LIP
DETAIL NOT TO SCALE



ISOMETRIC VIEW

"DIMENSIONS ARE NOMINAL, PROVIDED FOR PLANNING PURPOSES ONLY.
CONTACT DURCON FOR RECOMMENDED SINK CUTOUT DIMENSIONS TO INSURE A QUALITY INSTALLATION."

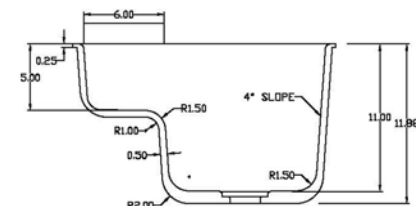
SINK	WEIGHT	OUTLET LOCAL.	CODE	FACTORY TAYLOR TX	DATE: 01/21/2021 SCALE: 1=1 DRAWN: BKT FILE: ROUND18
XXX	LBS	CENTER	SNKD-XXX		

LAB SINK CUT SHEET

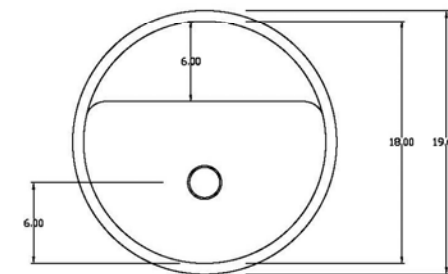
Location: Each Lab and Prep Room.

The round sink helps solve common issues associated with 24" reach limit of sink faucets. With the 18" round sink, the lab faucet can be located at the upper left or upper right corner, inside the footprint normally associated with a rectangular sink. This configuration also avoids the clearance issues associated with the drying rack located behind the sink.

The 18" round dual depth accessible will be specified for all lab accessible sink station locations.



SECTION VIEW

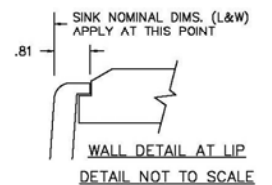


TOP VIEW



DRAIN OPENING DETAIL

SECTION NOT TO SCALE

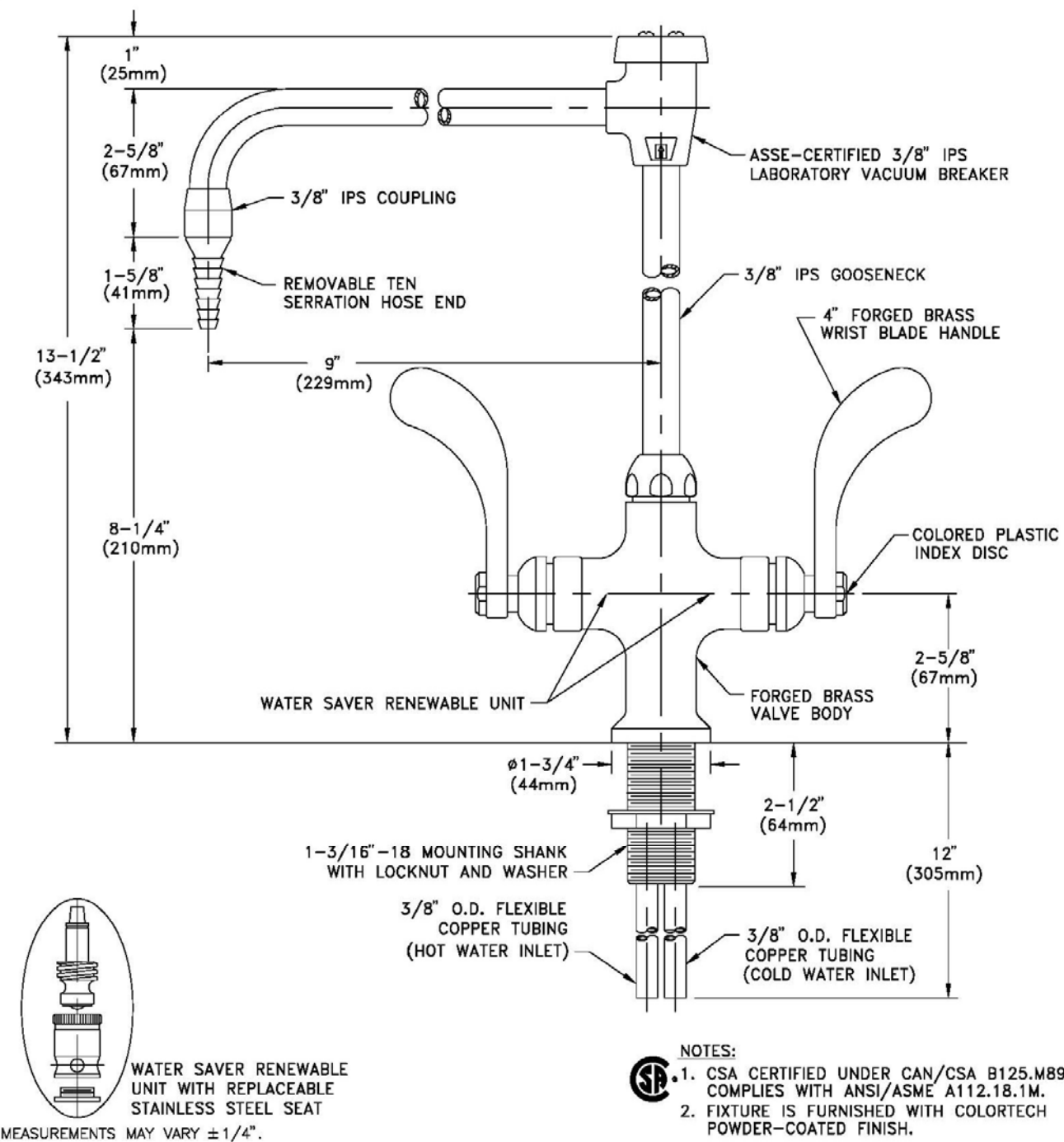


WALL DETAIL AT LIP
DETAIL NOT TO SCALE

"DIMENSIONS ARE NOMINAL, PROVIDED FOR PLANNING PURPOSES ONLY.
CONTACT DURCON FOR RECOMMENDED SINK CUTOUT DIMENSIONS TO INSURE A QUALITY INSTALLATION."

SINK	WEIGHT	OUTLET LOCAL.	CODE	FACTORY TAYLOR TX	DATE: 01/21/2021 SCALE: 1=1 DRAWN: BKT FILE: ROUND18ADA
XXX	LBS	CENTER	SNKD-XXX		

CT414-9VB-BH
LABORATORY MIXING FAUCET, DECK MOUNTED, 9" RIGID/SWING VACUUM BREAKER GOOSENECK, WRIST
BLADE HANDLES

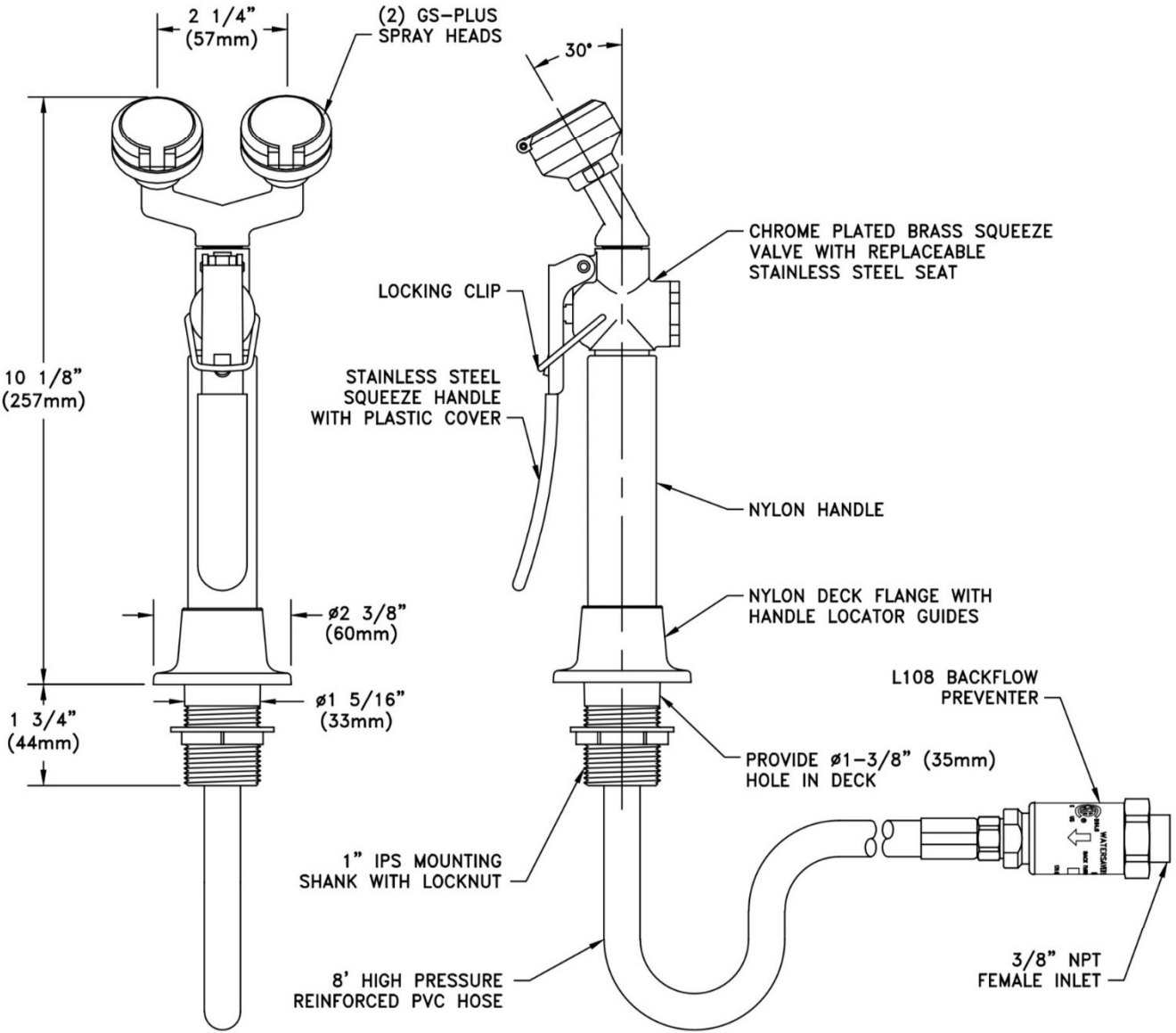


Location: Each lab and prep room.

The hot/cold water faucet in labs and prep rooms will be specified as Watersaver 9" swing gooseneck with vacuum breaker, wrist blade handles (at all locations, not just accessible sinks), with satin finish chrome and clear epoxy finish.

EYEWASH FAUCET CUT SHEET

EW1022BP
EYE WASH/DRENCH HOSE, DECK MOUNTED, WITH BACKFLOW PREVENTER



- NOTES:**
1. EACH GS-PLUS SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
 2. HOSE SHOULD NOT BE USED IN APPLICATIONS WHERE WATER PRESSURE EXCEEDS 90 PSI. HOSE SHOULD BE INSPECTED PERIODICALLY FOR DETERIORATION.

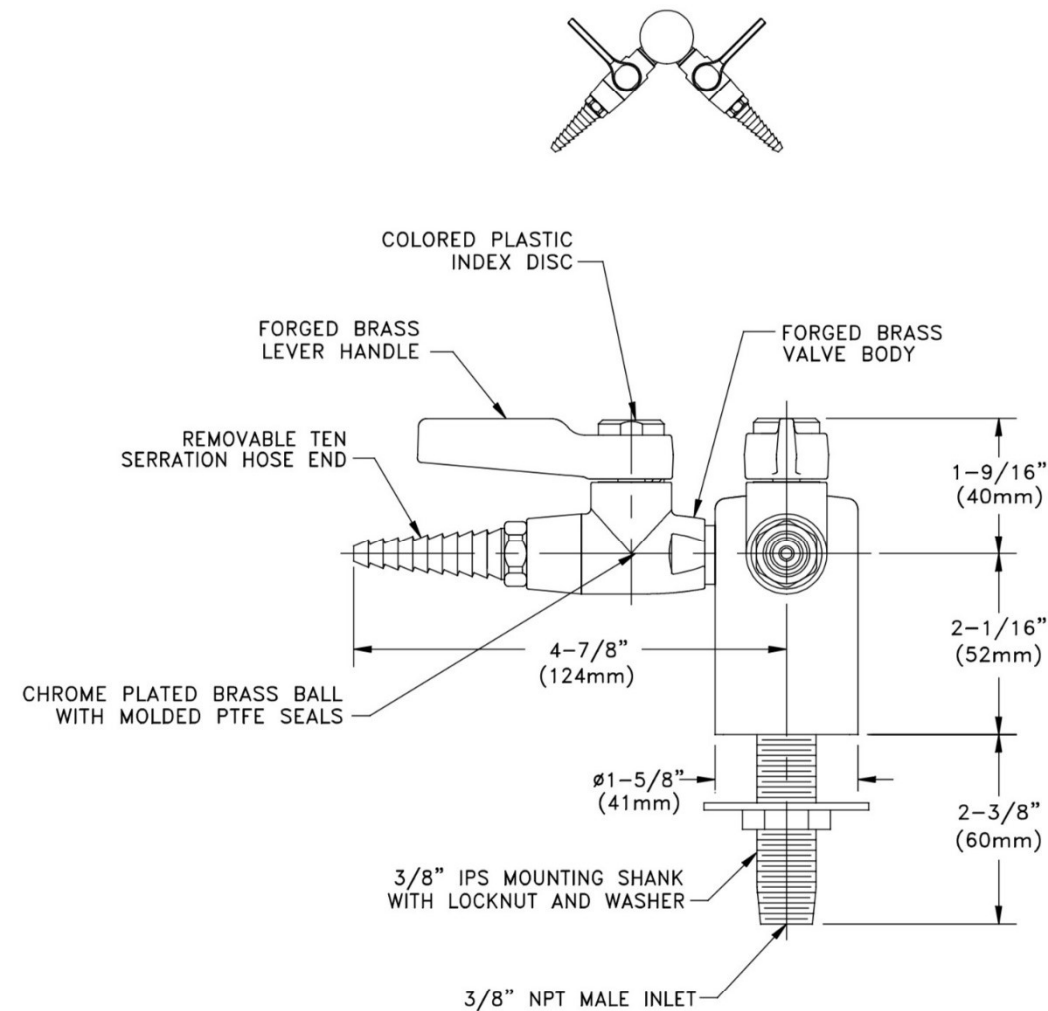
UNITS (EXCEPT THOSE WITH SELF-CLOSING VALVES) COMPLY WITH THE REQUIREMENTS OF ANSI Z358.1. TEST ALL EMERGENCY EQUIPMENT AT LEAST WEEKLY.

Drawing Number: S304-222 Revision Number: 071717-JSF

Location: Each lab and prep room sink.

Potable cold water must be provided at each eyewash.

L4200-132AWSA
LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED DOUBLE AT 90°



NOTES:



1. LABORATORY BALL VALVE ASSEMBLY IS CERTIFIED BY CSA INTERNATIONAL TO COMPLY WITH ANSI Z21.15 AND CGA 9.1.
2. FIXTURE IS FULLY ASSEMBLED AND FACTORY TESTED AT 150 PSI AIR PRESSURE. MAXIMUM WORKING PRESSURE IS 100 PSI.
3. SPECIFY IF CLEANING FOR OXYGEN AND HIGH PURITY GASES IS REQUIRED.
4. FIXTURE HAS A POLISHED CHROME PLATED FINISH.

MEASUREMENTS MAY VARY $\pm 1/4"$ (6mm).

Drawing Number: _____

Revision Number: 110620-SCJ

GAS OR VACUUM BALL VALVE CUT SHEET

Location: Perimeter sink stations and fixed bench stations in chemistry and microbiology Labs, and prep room.

A double turret ball valve for vacuum will be provided at each lab station.

A single turret ball valve for vacuum will be provided at the lab sink benches in the prep room.

Home > Greenstone Classic TableTop



DOWNLOAD IMAGES

- Description +
- Pattern Availability +
- Product Resources +
- Warranty Info +
- Care & Maintenance +

GREENSTONE CLASSIC TABLETOP FLAT-48X24-B01-4

WHERE TO BUY

FIND YOUR NEAREST LOCATIONS ☒ North America ☐ International

FIND

ORDER A COLOR SAMPLE

-- Color --

4" x 4"

-- Qty --

Add to Cart

- Available Colors :
- Black Onyx

Dark Khaki

Graphite

Gray
- Lunar White

Tan

LAB BENCHTOP MATERIAL CUT SHEET

Horizontal work surfaces will be epoxy resin by Durcon. The Greenstone work surface has recycled content. Basic colors are black, dark khaki, dark grey, light grey, and tan.

Work surfaces will be specified as 1" thick epoxy resin Greenstone, with 6" high backsplash at fixed wall benches.

Häfele Aximat 300 Project Hinges For wooden doors



LAB CASEWORK HINGE CUT SHEET

Häfele Aximat 300 SM

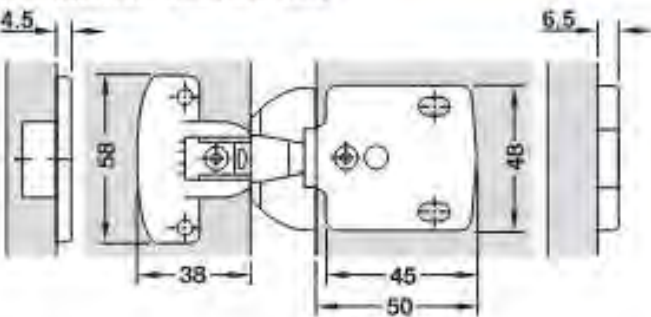
For full overlay, half overlay, twin and inset mounting



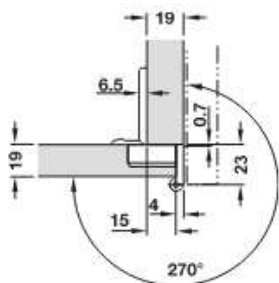
- > Opening angle: 270° (with full overlay mounting), 240° (with half overlay mounting) or 180° (with twin and inset mounting)
- > Material: Zinc alloy cup and hinge arm
- > Finish: Nickel plated
- > Hinge arm fixing: With spreading dowels with pre-mounted screws into 32 mm series drilled holes
- > Installation: Door to cabinet: Without tools (quick fixing system) or with Euro screws
- > Side panel thickness: 19 mm
- > Door offset: 0 mm from opening angle 140° (from 180° with inset mounting)
- > Adjustment facility: Three-dimensional
- > With spring
- > For cabinet construction or continuous construction

The Aximat hinge is a small, heavy duty, partially concealed hinge suitable for college science lab applications. It is self closing, and therefore does not require the use of a door catch.

Installation dimensions



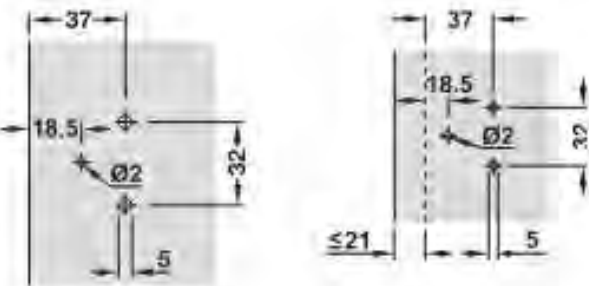
→ Full overlay mounting, gap 4 mm



- > Door thickness: 16–21 mm
- > Door overlay: 15 mm

Cup fixing	Cat. No.
For screw fixing	344.06.010
For press fitting	344.06.110
Packing: 1 piece	

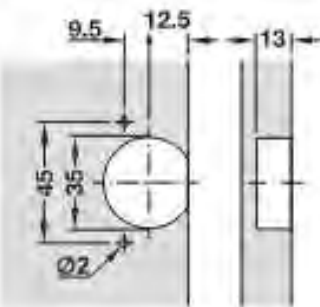
Drilling pattern for fixing the hinge arm



Full overlay mounting, half overlay mounting and twin mounting

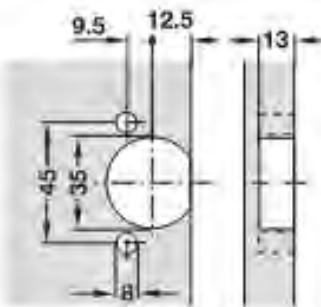
Inset mounting

Drilling pattern for cup fixing For screw fixing



Drilling pattern 45/9.5

For press fitting



Drilling pattern 45/9.5

Note
Dowel holes must be chamfered with HPL coated boards in order to avoid damaging the dowels during press fitting.

LAB CASEWORK PULL CUT SHEET

The lab drawer pulls will be wire type, 8” length, stainless steel.
Wire pulls are the only pull type accepted by DSA.



Description

They're called wire pulls but no one offers this quality! These are basic pulls that will make your design sparkle. Meets ADA guidelines. Available in 12 sizes.

	Overall Length	On Center	Projection	Bar Diameter
DP57A	2 7/8"	2 17/32"	1 13/32"	3/8"
DP57B	4 5/32"	3 25/32"	1 13/32"	3/8"
DP57C	5 7/16"	5 1/32"	1 13/32"	3/8"
DP57D	6 3/4"	6 5/16"	1 13/32"	3/8"
DP57E	7 15/16"	7 9/16"	1 13/32"	3/8"
DP57F	9 1/4"	8 13/16"	1 13/32"	3/8"
DP57G	10 1/2"	10 3/32"	1 13/32"	3/8"
DP57H	11 3/4"	11 11/32"	1 13/32"	3/8"
DP57I	13"	12 19/32"	1 13/32"	3/8"
DP57J	16 13/16"	16 3/8"	1 13/32"	3/8"
DP57K	19 3/16"	18 29/32"	1 13/32"	3/8"
DP57L	20 9/16"	20 5/32"	1 13/32"	3/8"

Comes standard with 1" mounting screws.
Tolerance: (+/-) 1/16"

Note: We do not recommend drilling or cutting any holes before receiving a product or product sample.

Finish: Satin Stainless Steel.

Custom finishes available. For more information or pricing, please contact us.

Every component is inspected down to the chemical level to show that no hazardous elements have been found in the making of this part, Constructed using renewable energy. We support the use of renewable energy projects and material reutilization.

[Read More Description](#)

9/27/21, 3:29 PM



DP57 SERIES - WIRE DRAWER PULL



Heavy-Duty
150 lb. Load Class
1/2" Side Clearance
Max. Drawer Width: 36"



8600 Heavy-Duty Full Extension Drawer Slide

The 8600 Full Extension Drawer Slide is designed to accommodate wider and heavier drawers for today's challenging applications in the commercial, residential and education markets. This slide has a shorter profile vs. traditional lateral file slides and features a lever disconnect.

Applications

- Residential and Commercial Furniture
- Commercial Storage
- Retail Store Displays

Specifications

Model: 8600 Full Extension Drawer Slide

Mounting: Side

Disconnect: Butterfly Lever

Hole Pattern: 32mm and Traditional

Face Frame Mounting: Yes. Slide must be blocked out. See face frame diagram (Do not use a rear mounting bracket.)

Type: Ball-Bearing

Travel: Full Extension

Finish: Zinc

Length: 12", 14", 16", 18", 20", 22", 24", 26", 28"

Clearance: .51" + .01" - 0" on each side

Height: 1.98" [50.4mm]

Packaging: Bulk Pack (8600B): all sizes - 5 pair per carton

Action: Telescopic

Slide Configuration: Unhanded

Load Rating (based on application)

Load: 150 lb.

Max. Drawer Width: 36"

Slides: 18"

Drawer Width: 36"

Cycles: 50,000 (center pull)

Load: 200 lb.

Max. Drawer Width: 18"

Slides: 18"

Drawer Width: 18"

Cycles: 25,000 (center pull)

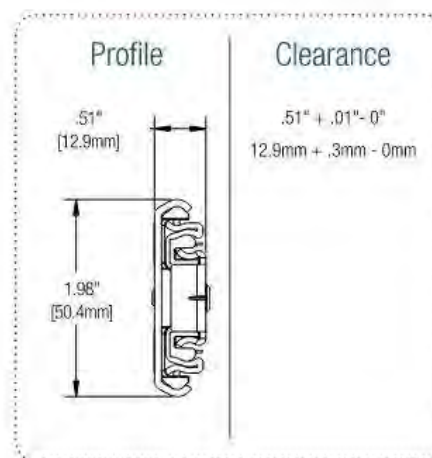
As with all Knap & Vogt drawer slides, the 8600 is designed to meet or exceed ANSI performance standards as established by BIFMA, BHMA and KCMA.

Hardware

#7 x 1/2" Phillips Truss Head

Warranty

Limited Lifetime Warranty



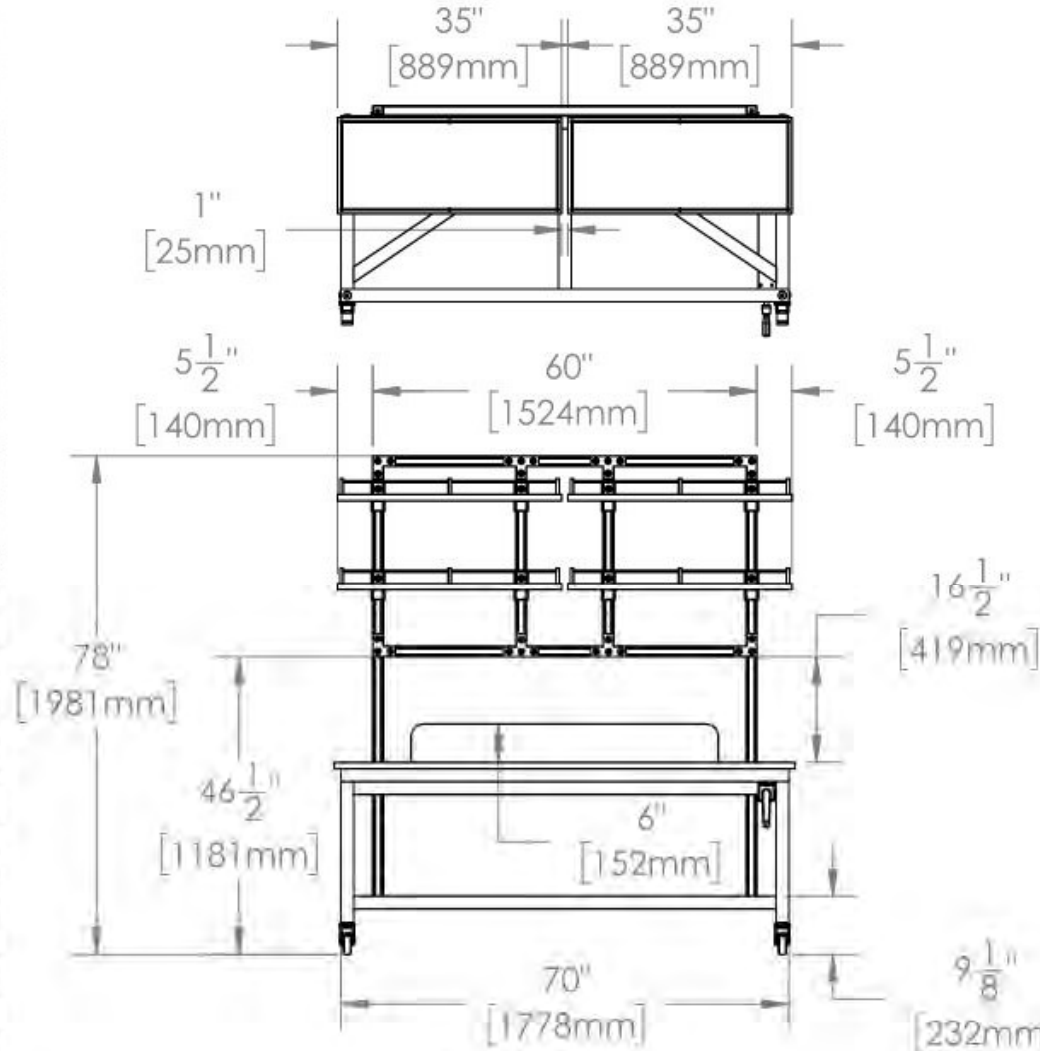
LAB CASEWORK DRAWER GLIDE CUT SHEET

The KV (or Accuride) heavy duty drawer glide is suitable for college science lab applications. Drawer glides will be specified at 150 lb. capacity, full extension.

PROTEAN LAB BENCH CUT SHEET

ASSEMBLY

ADJUSTABLE HEIGHT MOBILE PROTEAN LAB BENCH
WITH HAND CRANK SYSTEM
FINISH: POWDER COATED



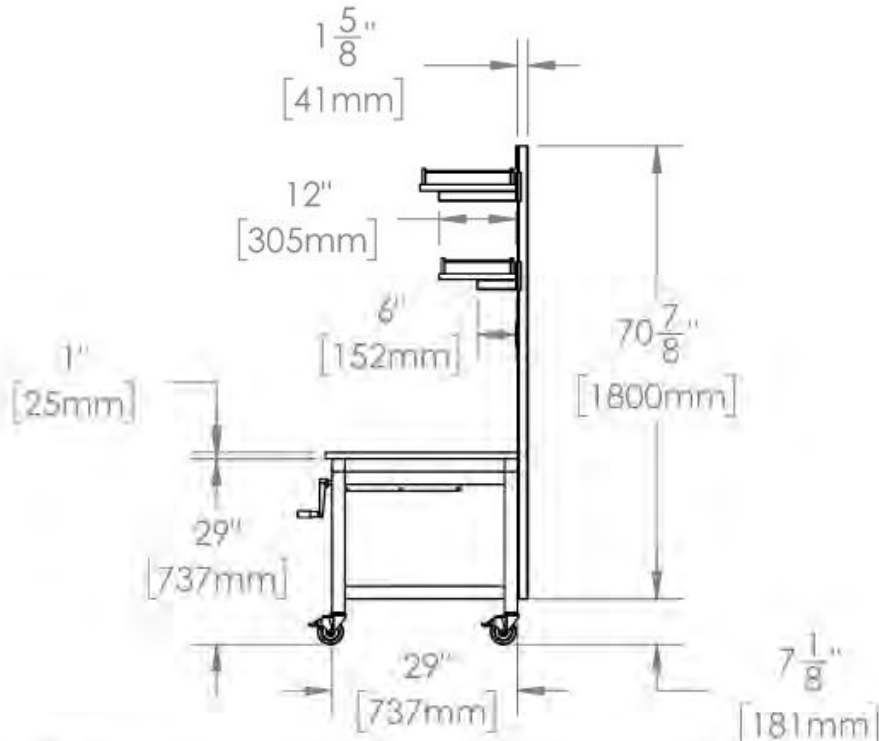
SIT DOWN CONFIGURATION

ERGONOMIC HEIGHT ADJUSTABLE SYSTEM OPTIONS

- 1,000 LBS OR 1,500 LBS LIFTING CAPACITY
- 6" TO 16" STROKE LENGTH
- MANUAL AND ELECTRICAL OPERATION

TABLE HEIGHT

MIN HEIGHT W/ TOP: 30"H [762mm]
MAX HEIGHT W/ TOP: 40"H [1016mm]
INSTALLED AT: 36"H [914mm]



PROJECT			
CLIENT			
DRAWN BY: P.V.	PHONE: (909) 552-3100		
ADDRESS: 13181 SANTA ANA AVE., FONTANA, CA 92337			
COMMENTS:	SIZE: A	TITLE: MOBILE PROTEAN LAB BENCH TABLE	REV:
	SCALE: NTS	DATE: 02/04/21	PAGE 1 OF 2

Location: In labs and prep room where noted.

PROTEAN lab bench provides maximum flexibility. Work surface is easy adjusted vertically with handle. Shelves above work surface are adjustable and removeable as needed.

Power at PROTEAN lab benches will be at wall surface in vertical service module.

TASK LIGHT CUT SHEET

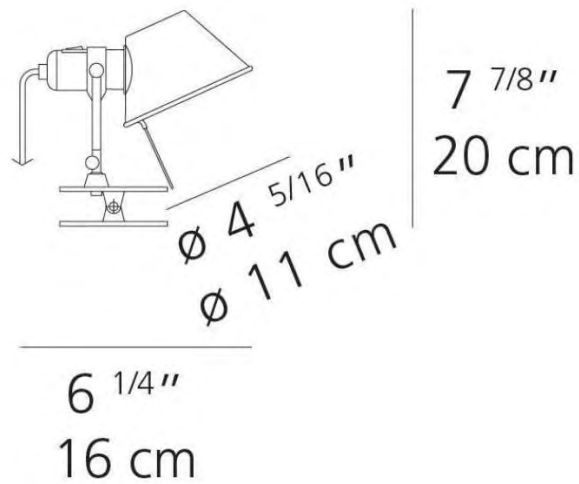


Location: at each PROTEAN mobile lab bench.

Task light plugs into power outlet at PROTEAN service module adjacent to each mobile lab bench.



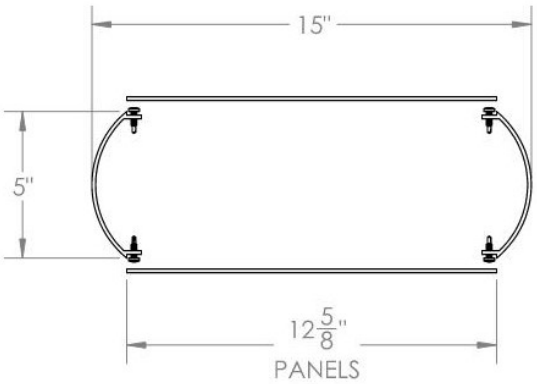
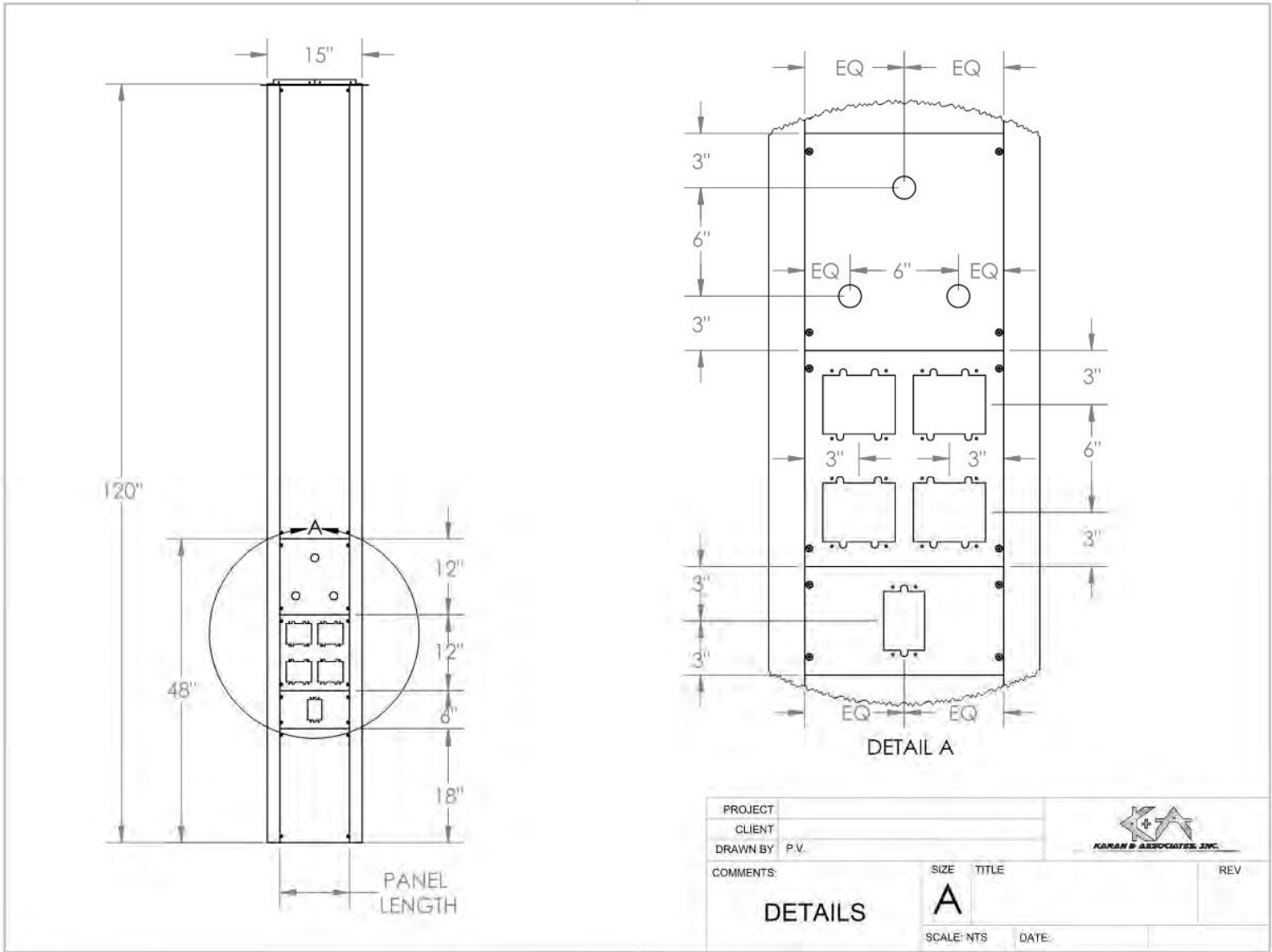
Tolomeo clip spot micro



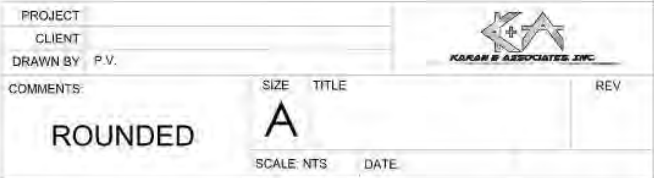
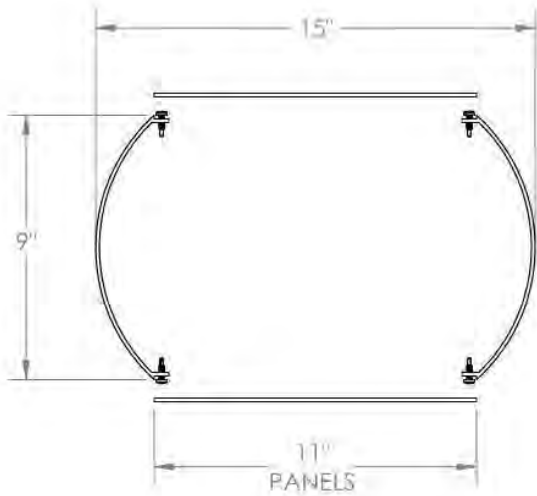
PROTEAN SERVICE MODULE CUT SHEET

The service module provides maximum flexibility for power conduit and plumbing pipes. Conduit and pipes can be added or subtracted without having to access inside a wall cavity.

Service modules will be specified at 5” deep and run vertically from the ceiling to 24” above the floor.



EXPLODED
(ANGLES AND COLLAR NOT SHOWN)





SUPER ADJUSTABLE SUPER ERECTA®

METRO SHELF CUT SHEET

Metroseal 3 Four-Tier Unit with 63" posts

Nominal Width/Length (in.)	Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)	Cat. No. Starter Unit	Cat. No. Add-On Unit
18x24 457x610	42	19.1	A316K3	AA316K3
18x30 457x760	47	21.3	A326K3	AA326K3
18x36 457x914	53	24.0	A336K3	AA336K3
18x42 457x1060	57	25.9	A346K3	AA346K3
18x48 457x1219	63	28.6	A356K3	AA356K3
18x60 457x1524	82	37.2	A366K3	AA366K3
18x72 457x1829	94	42.6	A376K3	AA376K3
21x24 530x610	46	20.9	A416K3	AA416K3
21x30 530x760	52	23.6	A426K3	AA426K3
21x36 530x914	59	26.8	A436K3	AA436K3
21x42 530x1060	65	29.5	A446K3	AA446K3
21x48 530x1219	71	32.2	A456K3	AA456K3
21x60 530x1524	88	39.9	A466K3	AA466K3
21x72 530x1829	98	44.5	A476K3	AA476K3
24x24 610x610	50	22.7	A516K3	AA516K3
24x30 610x760	57	25.9	A526K3	AA526K3
24x36 610x914	65	29.5	A536K3	AA536K3
24x42 610x1060	72	32.7	A546K3	AA546K3
24x48 610x1219	79	35.8	A556K3	AA556K3
24x60 610x1524	98	44.5	A566K3	AA566K3
24x72 610x1829	120	54.4	A576K3	AA576K3

Actual Dimensions: Width: Add 1/4" (3.2mm) to nominal size.
Length: Subtract 1/4" (3.2mm) from nominal size.*

Super Adjustable Super Erecta® Stem Caster Carts — [11.01a]

- Consists of Super Adjustable Super Erecta wire shelves.
- 5" (127mm) resilient rubber or polyurethane casters with donut bumpers.



Super Adjustable Super Erecta® Wire Stem Caster Cart

Safely Hold up to **600lbs.** per mobile unit.
"BC" models with resilient rubber casters.

Safely Hold up to **900lbs.** per mobile unit.
"EC" models with polyurethane casters.

Metroseal 3 Five-Tier Unit with 74" posts

Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)	Cat. No. Starter Unit	Cat. No. Add-On Unit
51	23.1	5A317K3	5AA317K3
58	26.3	5A327K3	5AA327K3
65	29.5	5A337K3	5AA337K3
70	31.8	5A347K3	5AA347K3
78	35.4	5A357K3	5AA357K3
102	46.3	5A367K3	5AA367K3
117	53.1	5A377K3	5AA377K3
57	25.9	5A417K3	5AA417K3
64	29.0	5A427K3	5AA427K3
73	33.1	5A437K3	5AA437K3
81	36.7	5A447K3	5AA447K3
88	39.9	5A457K3	5AA457K3
109	49.4	5A467K3	5AA467K3
122	55.3	5A477K3	5AA477K3
62	28.1	5A517K3	5AA517K3
71	32.2	5A527K3	5AA527K3
81	36.7	5A537K3	5AA537K3
89	40.4	5A547K3	5AA547K3
98	44.5	5A557K3	5AA557K3
122	55.3	5A567K3	5AA567K3
149	67.6	5A577K3	5AA577K3

Indicates antimicrobial product.

4-Tier Models – Chrome Shelves and Chrome-Plated Posts
Overall Height 67 1/8" (1724mm)

Shelf Width/Length (in.)	Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)	Catalog Number with Casters
18x36 457x914	60	27	A336BC
18x48 457x1219	72	32	A356BC
18x60 457x1524	88	40	A366BC
21x36 530x914	69	31	A436BC
21x48 530x1219	81	36	A456BC
21x60 530x1524	98	44	A466BC
24x36 610x914	76	34	A536BC
24x48 610x1219	92	41	A556BC
24x60 610x1524	112	51	A566BC

5-Tier Models – With Chrome Shelves and Chrome-Plated Posts
Overall Height 67 1/8" (1724mm)

Shelf Width/Length (in.)	Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)	Catalog Number with Casters
18x36 457x914	60	27	5A336BC
18x48 457x1219	72	32	5A356BC
18x60 457x1524	88	40	5A366BC
21x36 530x914	69	31	5A436BC
21x48 530x1219	81	36	5A456BC
21x60 530x1524	98	44	5A466BC
24x36 610x914	76	34	5A536BC
24x48 610x1219	92	41	5A556BC
24x60 610x1524	112	51	5A566BC

Note: Models include 63UP posts.
Use a solid shelf on the lowest levels to protect contents on the bottom of the cart from debris and dripping. (See page 75).

Location: Prep room.

Metro shelves provide maximum flexibility for lab storage.

Each shelf unit will be 24"x48", with 5 adjustable shelves, on heavy duty casters.

LAB STOOL CUT SHEET



Lab stools are normally specified as part of Furniture, Fittings, and Equipment (FFE). This Citrus lab stool by Cramer is shown as a recommendation and for reference only. The foot ring option is recommended.

