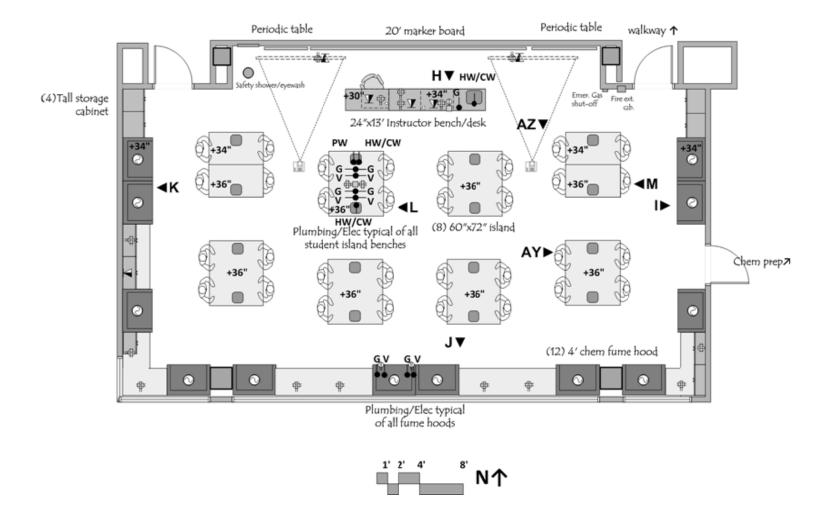


Lab Sketchbook

National City Higher Education Center-Building II Southwestern College 2014 Jun 18

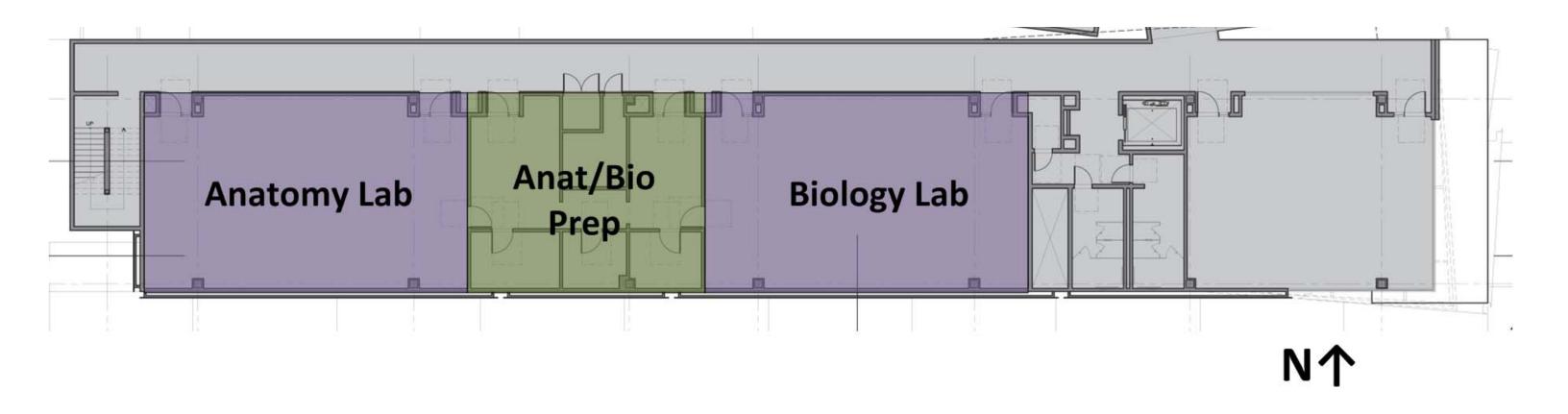


CONTENTS

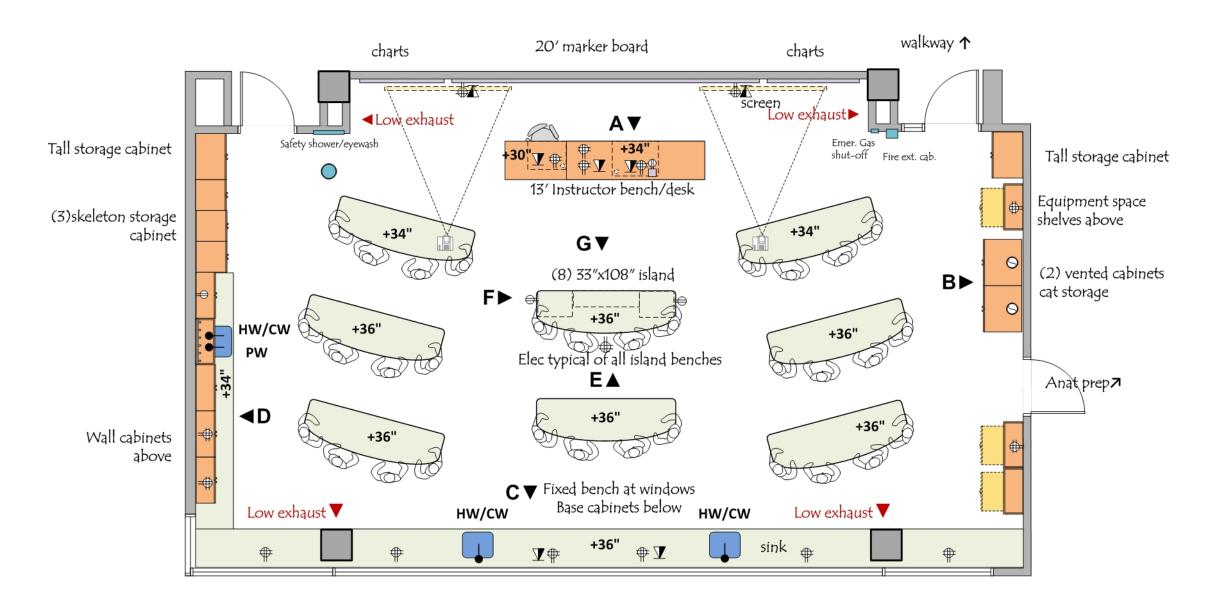


Level 2 Labs	•	•	•	•	•	•	3
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LEVEL 2 LABS



ANATOMY LAB





ARCHITECTURAL

Occupancy: B

Number of students: 32

Area: ~1600 sf

Floor: VCT or rubber tile or sealed concrete Walls: gypsum board and enamel paint

Ceiling: 9'-6"' acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch door at Prep Room

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

STRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F

Humidity: ambient 100% exhaust- VAV

6 air changes per hour occupied

Half exhaust high at ceiling/half low at perimeter walls

Manual control (switch at wall) to increase to 12 air changes per

hour on demand

4 air changes per hour unoccupied Equipment heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets

(maximum of four duplex per circuit)

Wired and wireless data

Lighting: indirect fluorescent @ 50-60 f.c.; stepped lighting control

PLUMBING

Hot/Cold water at perimeter sinks

Pure water at one sink

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets

Tall vented cabinets (cats)
Epoxy resin tops and sinks

Faucets & fittings Marker board

Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

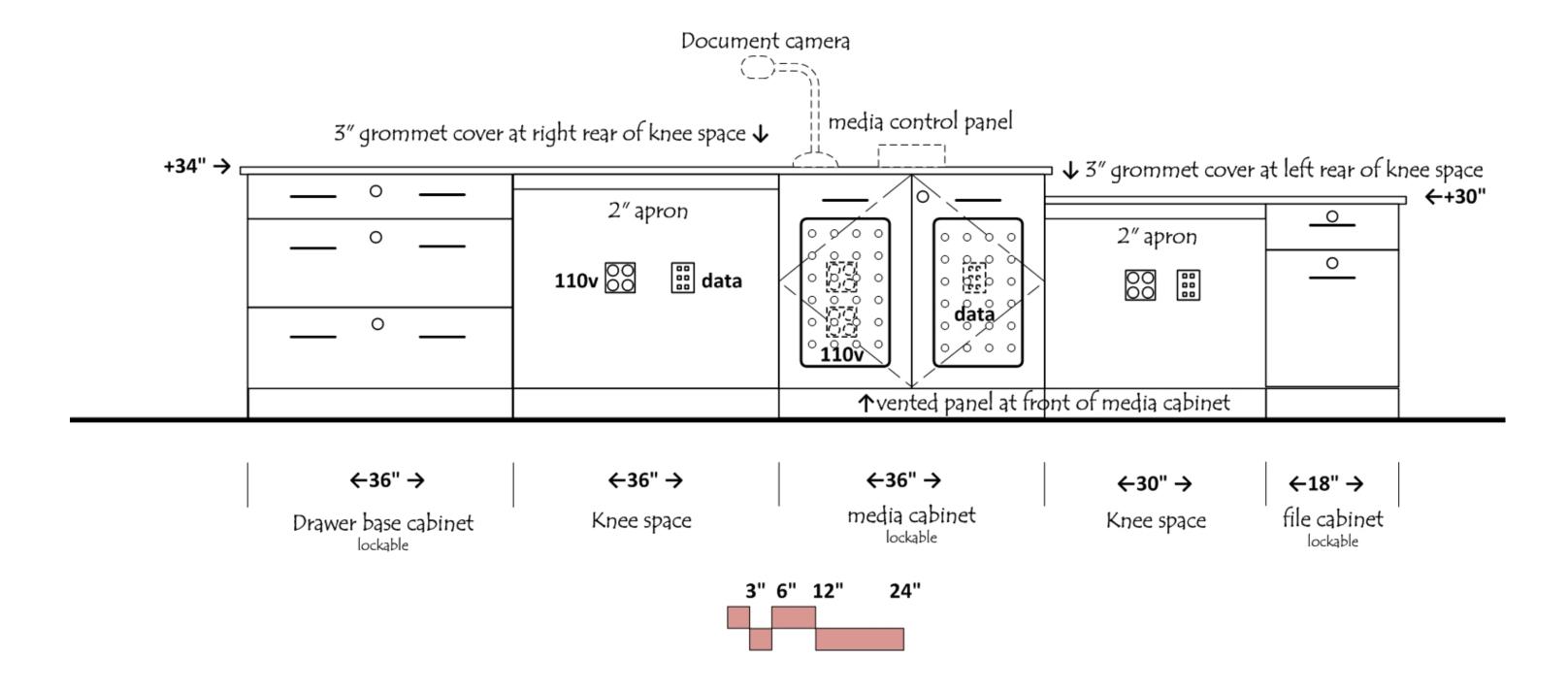
Chairs

Benchtop analytical instruments

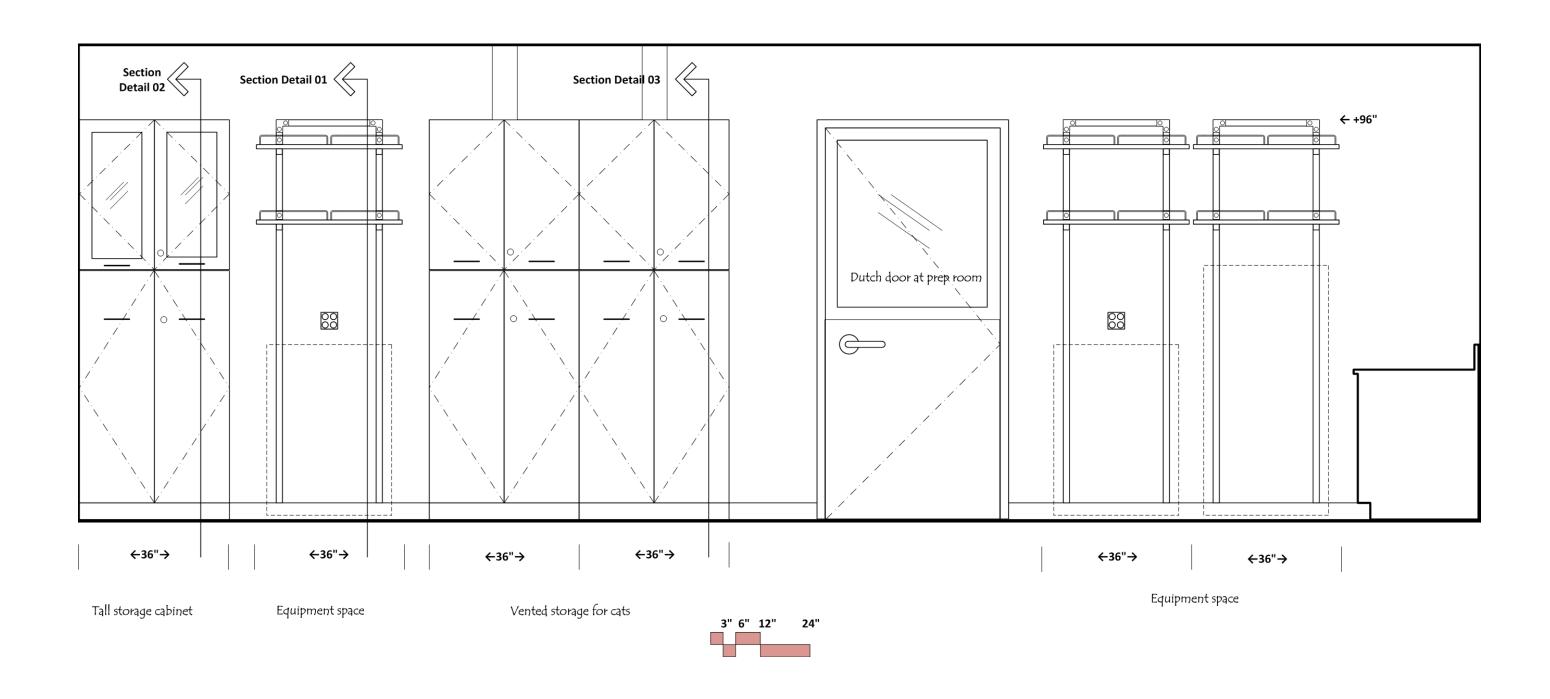
Scientific equipment

Projection system (2 projectors and screens)

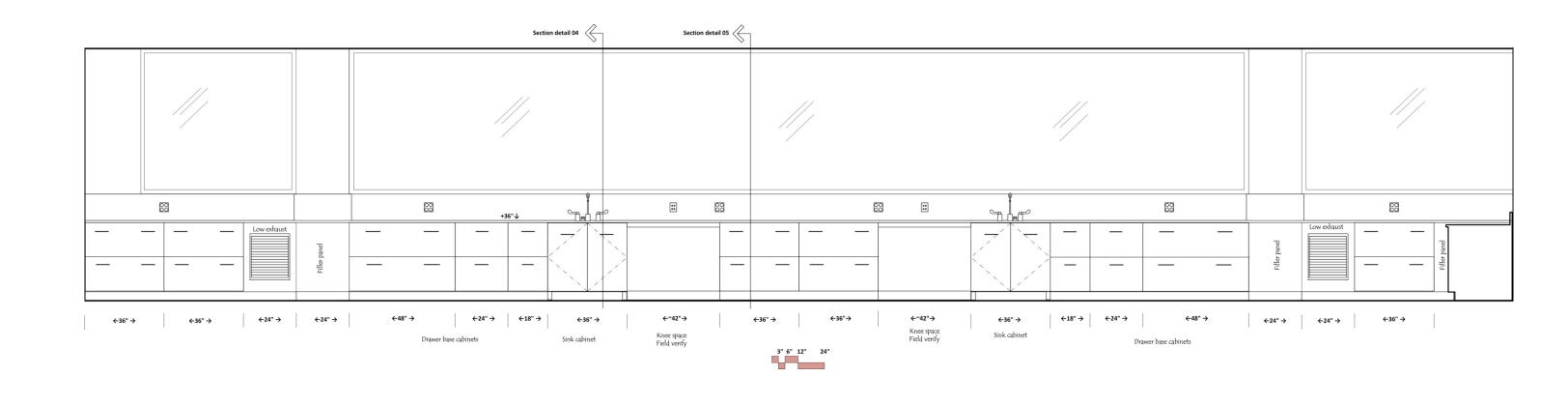
ELEVATION AAnatomy Lab



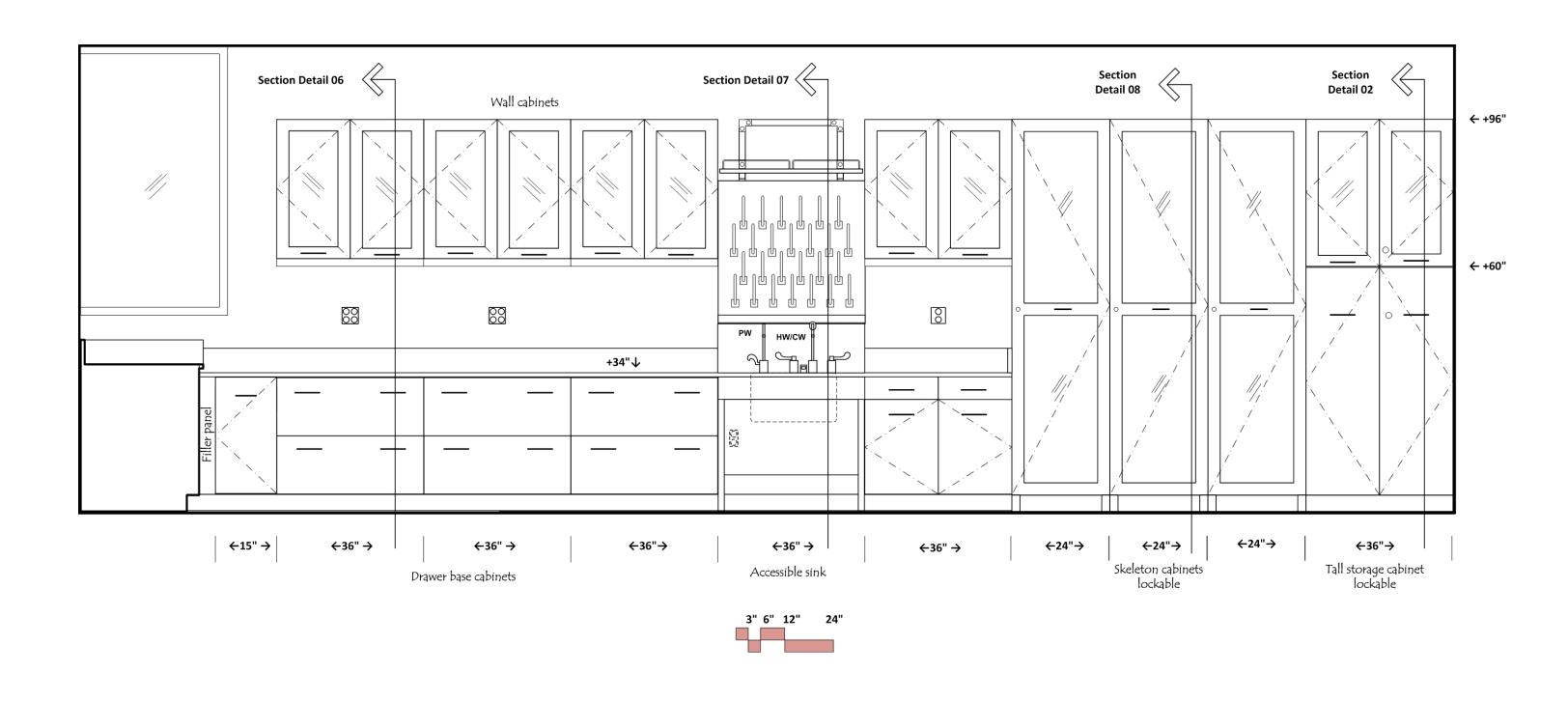
ELEVATION BAnatomy Lab

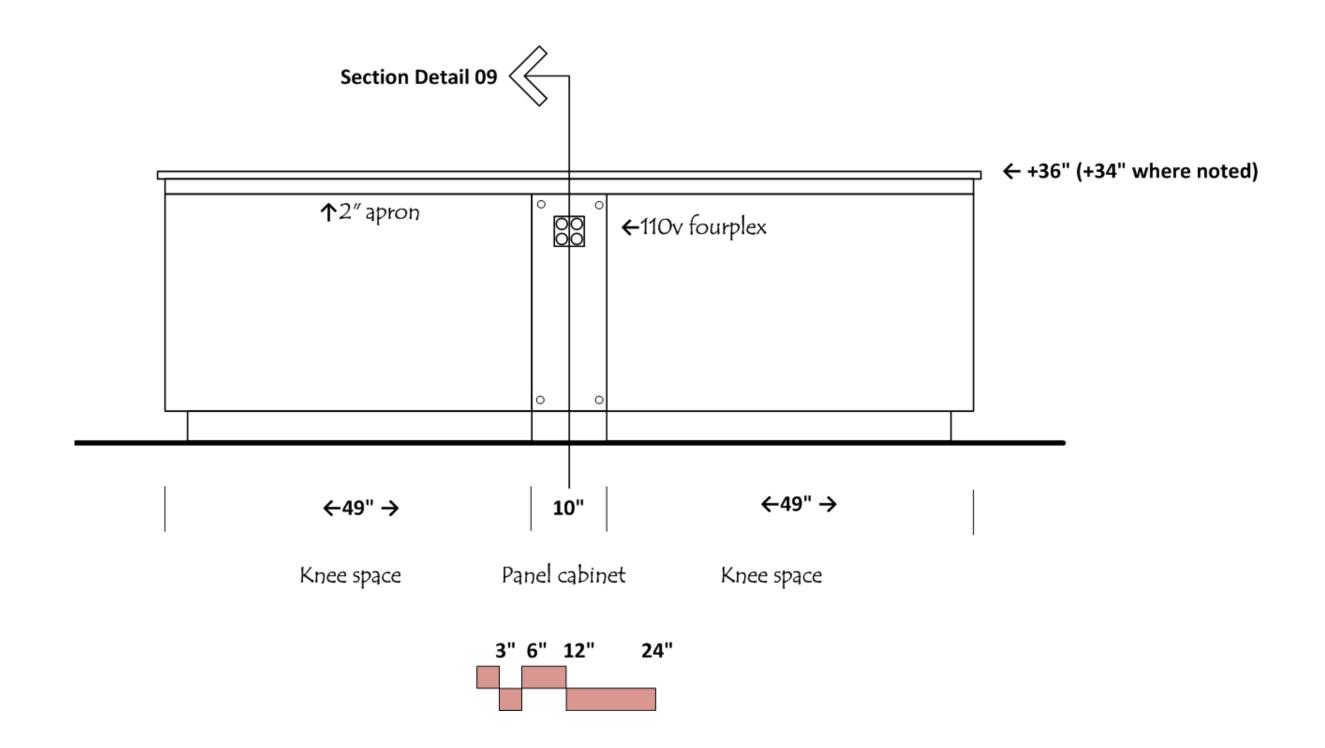


ELEVATION CAnatomy Lab

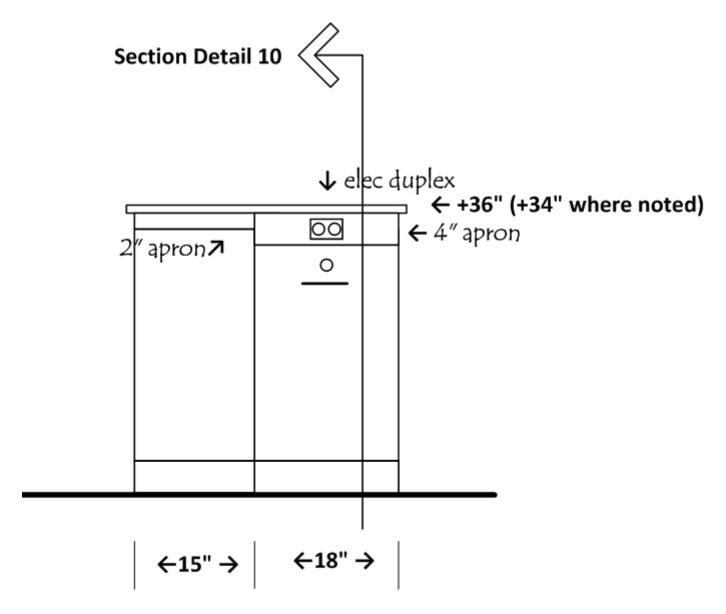


ELEVATION DAnatomy Lab



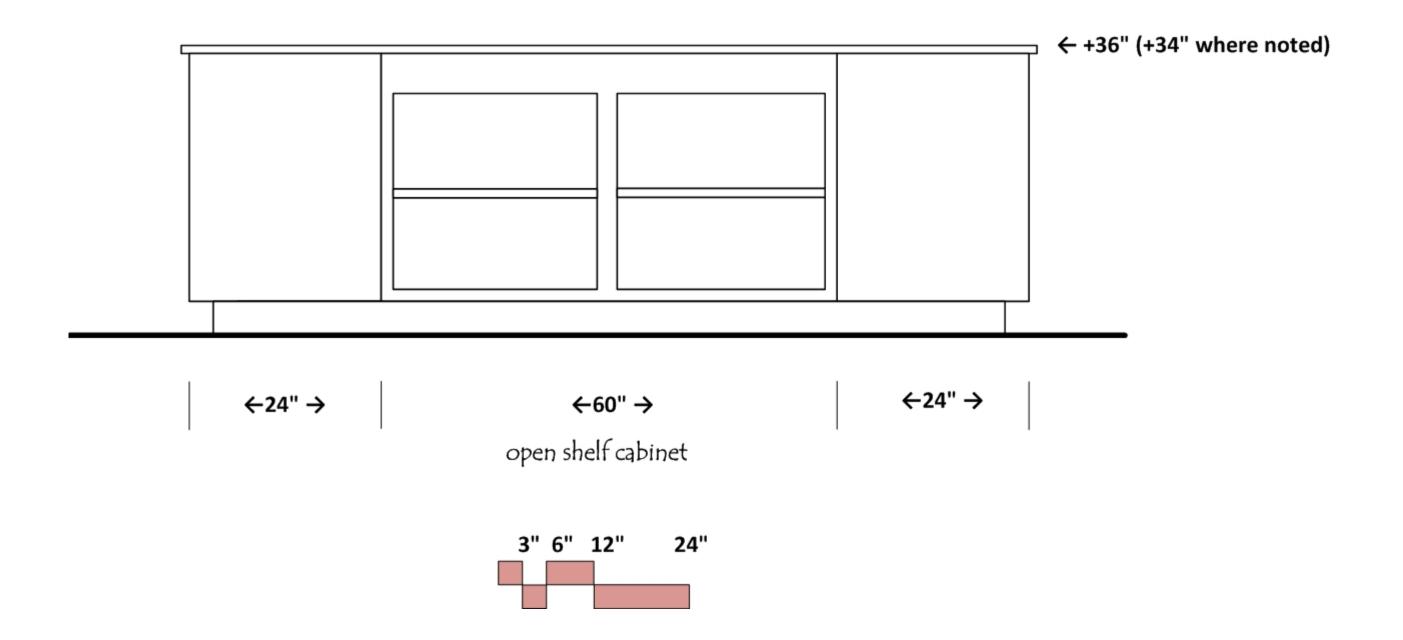


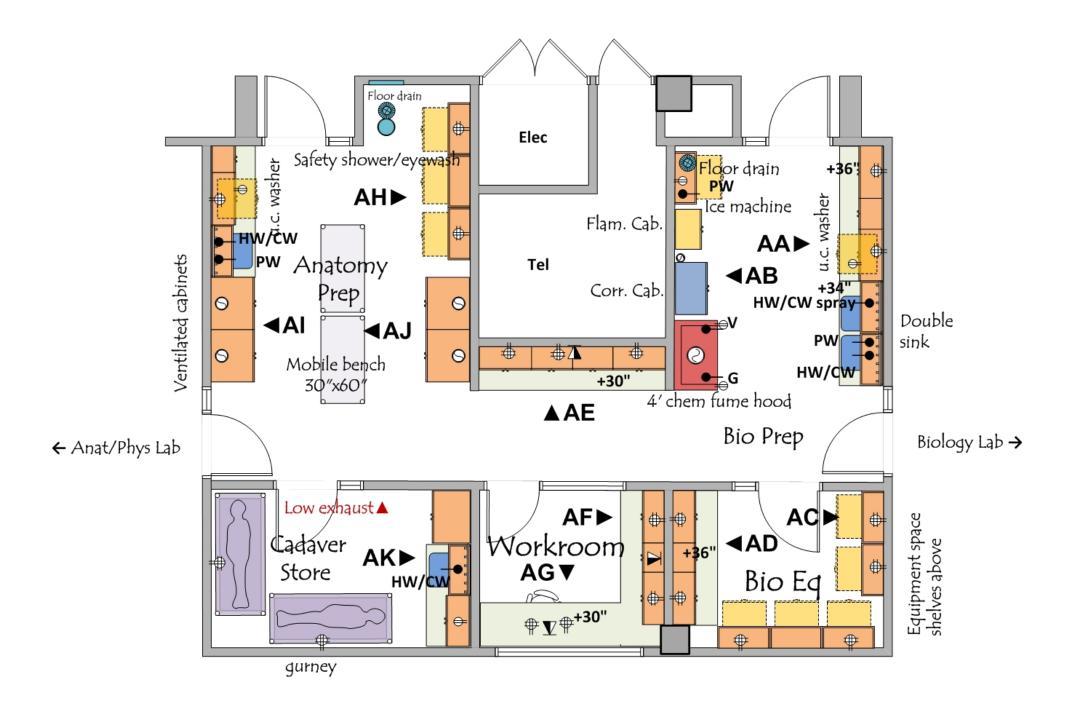
ELEVATION FAnatomy Lab



Knee space Microscope drawer base cabinet lockable









2ND FLOOR PREP Anatomy & Biology

ARCHITECTURAL

Occupancy: B

Floor: sealed concrete

Walls: gypsum board and enamel paint

Ceiling: 9-6" mylar acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch doors at Lab

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

STRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F; 68 deg F for Cadaver Store Humidity: ambient except for Cadaver Store- provide 30-50%

relative humidity control

100% exhaust- VAV

6 air changes per hour occupied

4 air changes per hour unoccupied

6 air changes per hour 24/7 for Cadaver Store

Cadaver Store: Half exhaust high at ceiling/half low at perimeter walls; Manual control to increase to 12 air changes per hour on

demand

Equipment heat gain: 75 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per circuit)

circuity

Wired and wireless data

Lighting: indirect fluorescent @ 50-60 f.c.; stepped lighting control

PLUMBING

Hot/Cold water at sinks; Pure water at sinks and u.c. washer

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

Floor drain at ice machine

Floor drain below safety shower

CONTRACTOR FURNISHED EQUIPMENT

Casework- base cabinets, wall cabinets, tall cabinets

Lab tops and sinks

All stainless steel casework, sinks, tops in Anatomy Prep and $\,$

Cadaver Store

Mobile lab benches

Faucets & fittings

Ventilated storage cabinets (brains, eyes, hearts)

Undercounter washers

Chemical Fume Hood (VAV)

Chemical Storage cabinets

COLLEGE FURNISHED EQUIPMENT

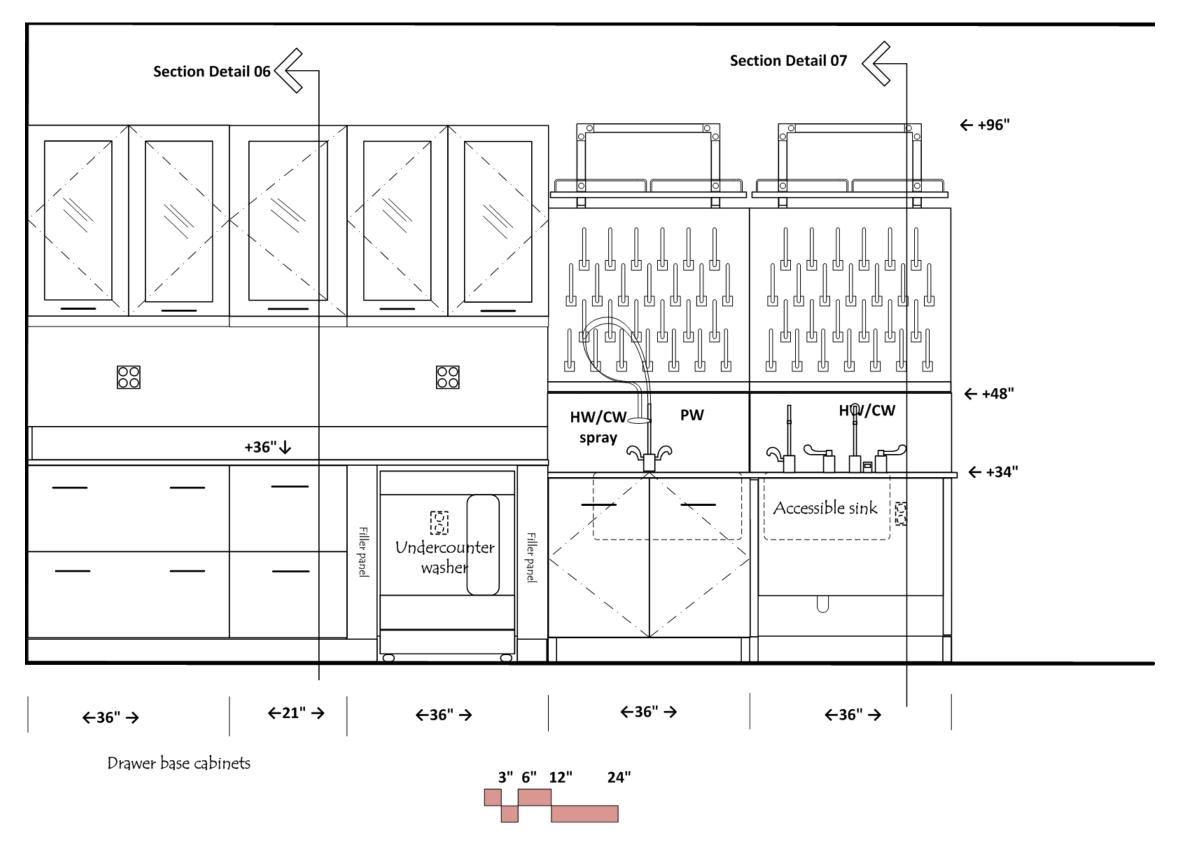
Chairs

Cadaver gurneys

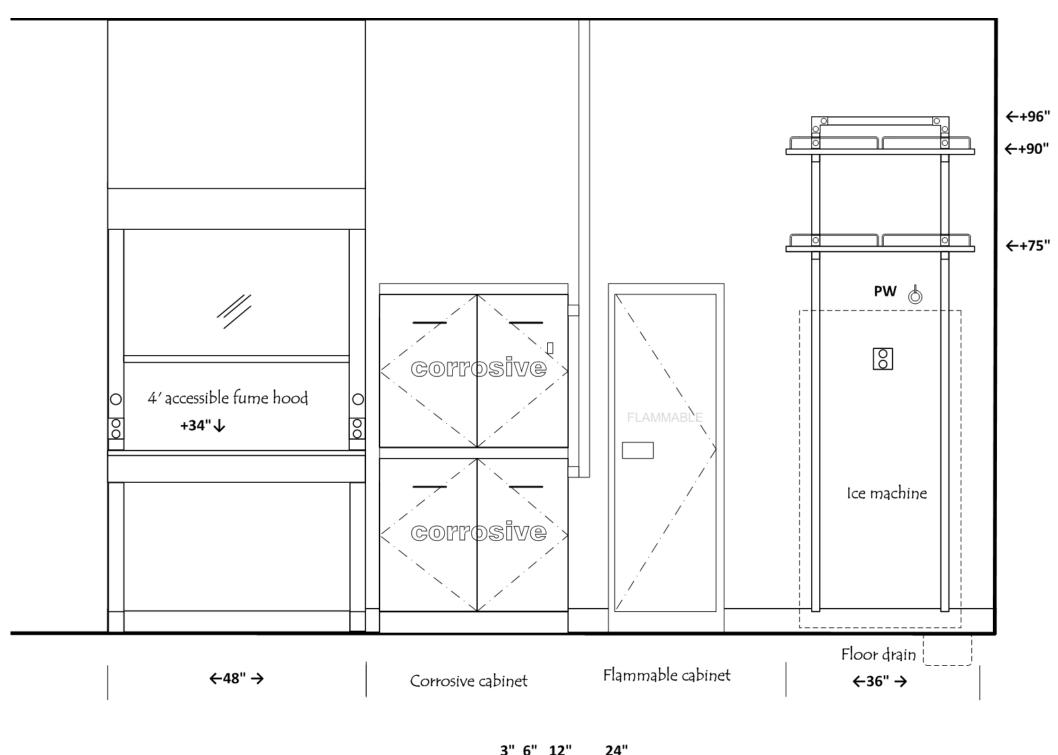
Scientific equipment

Refrigerator; Ice Machine

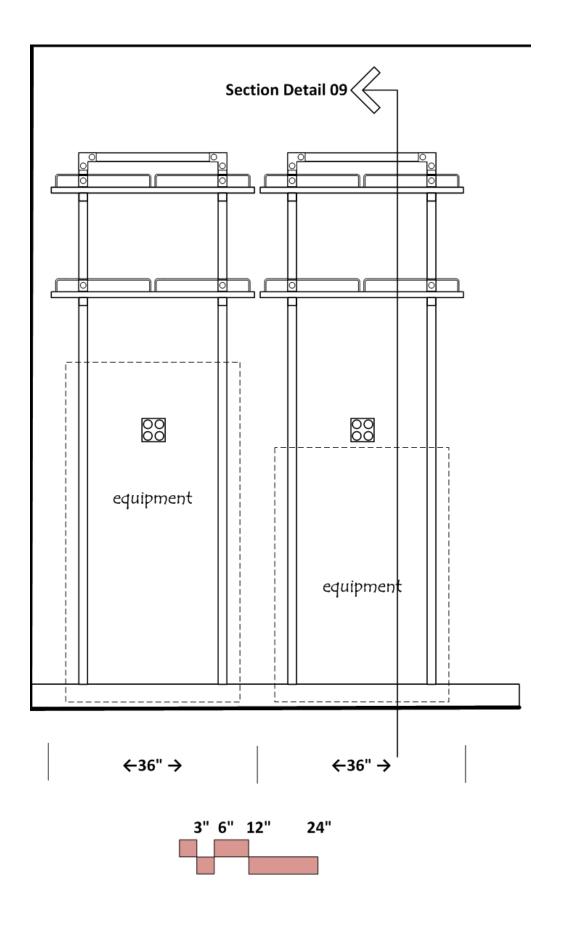
ELEVATION AAAnatomy & Biology Prep



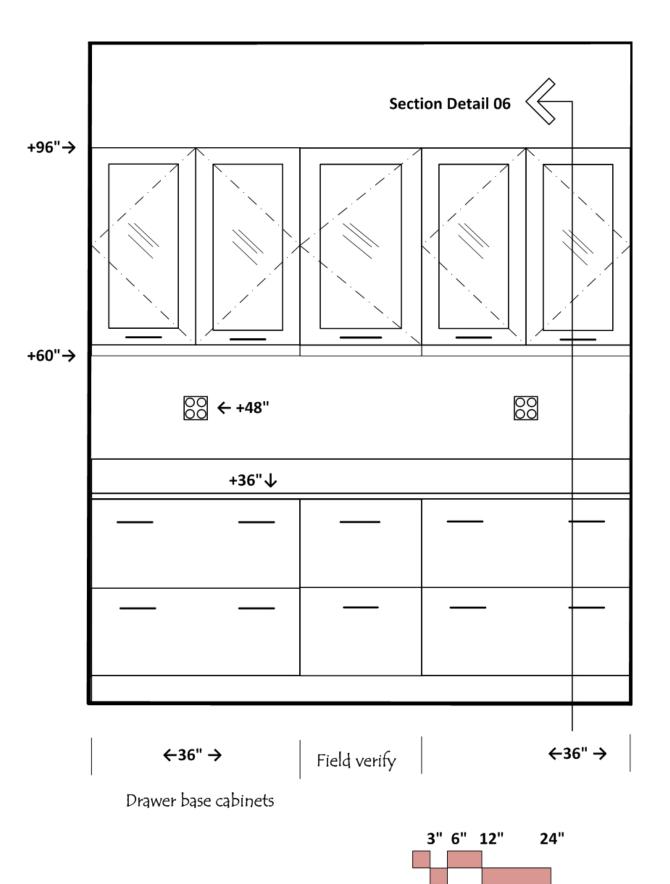
ELEVATION ABAnatomy & Biology Prep



ELEVATION ACAnatomy & Biology Prep

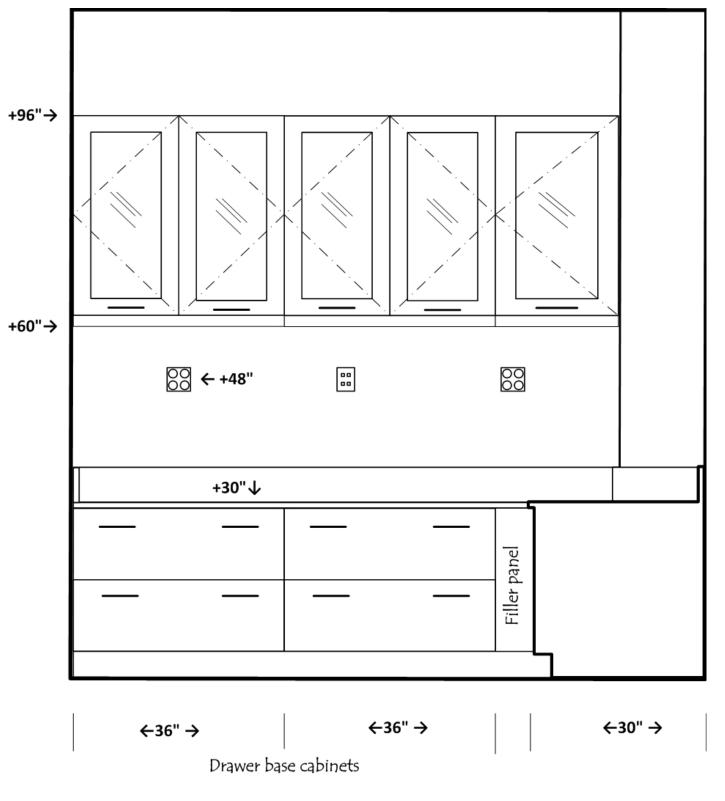


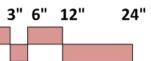
ELEVATION AD Anatomy & Biology Prep



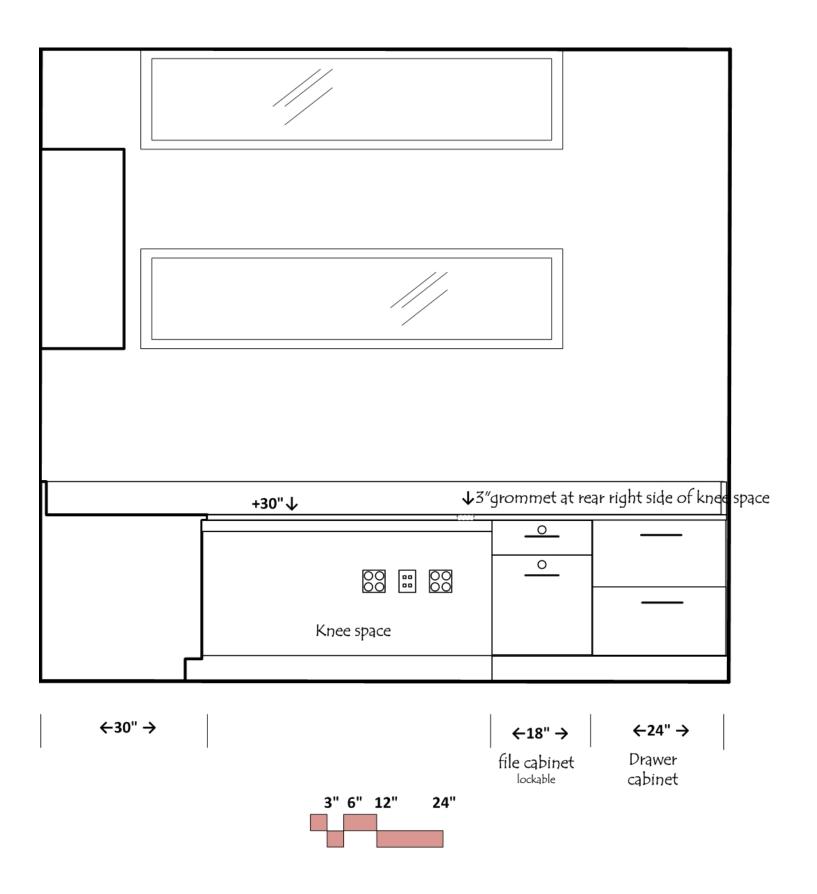
ELEVATION AE Anatomy & Biology Prep ← +96" ← +60" 00 00 00 00 ← +36" ←+30" **←**36" **→** Knee space ←36" → Drawer base cabinets

ELEVATION AFAnatomy & Biology Prep

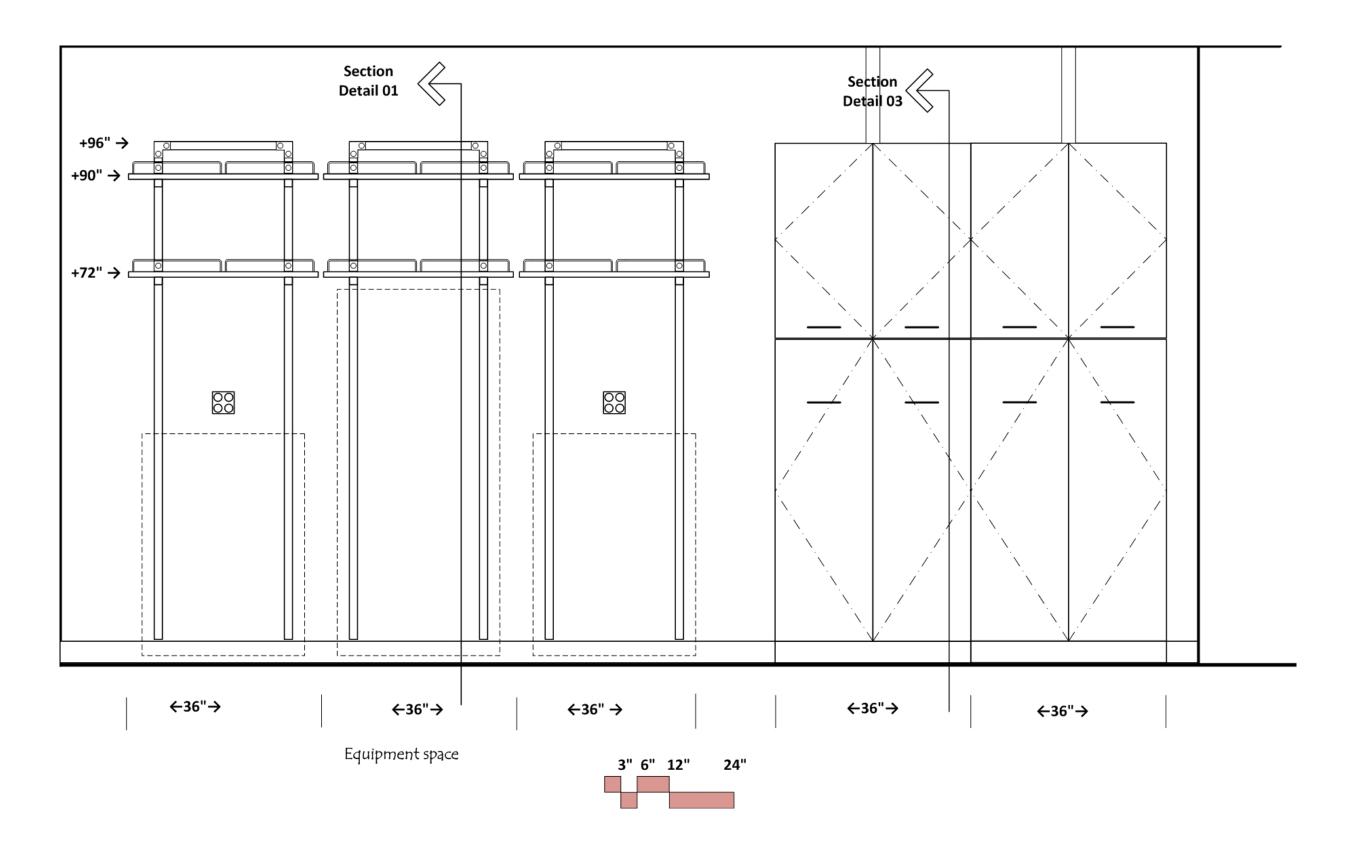




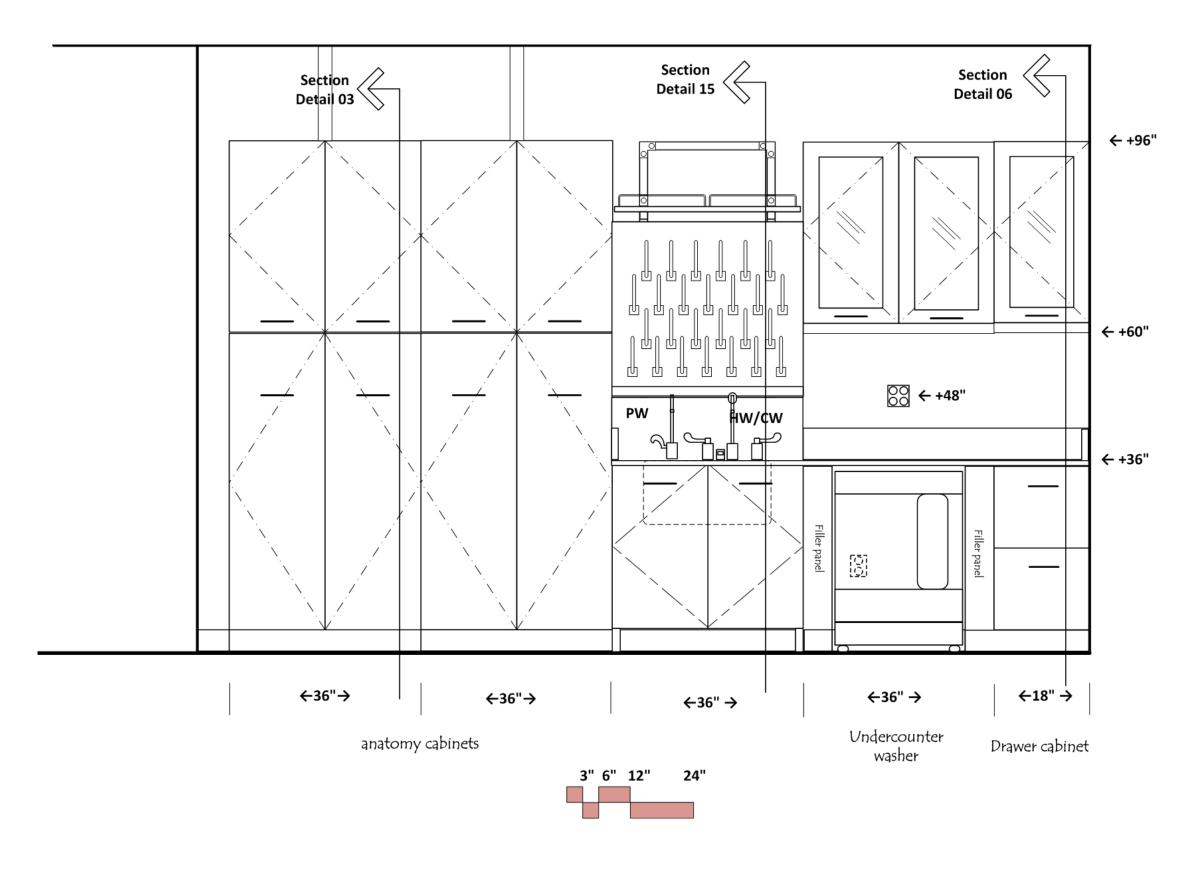
ELEVATION AGAnatomy & Biology Prep



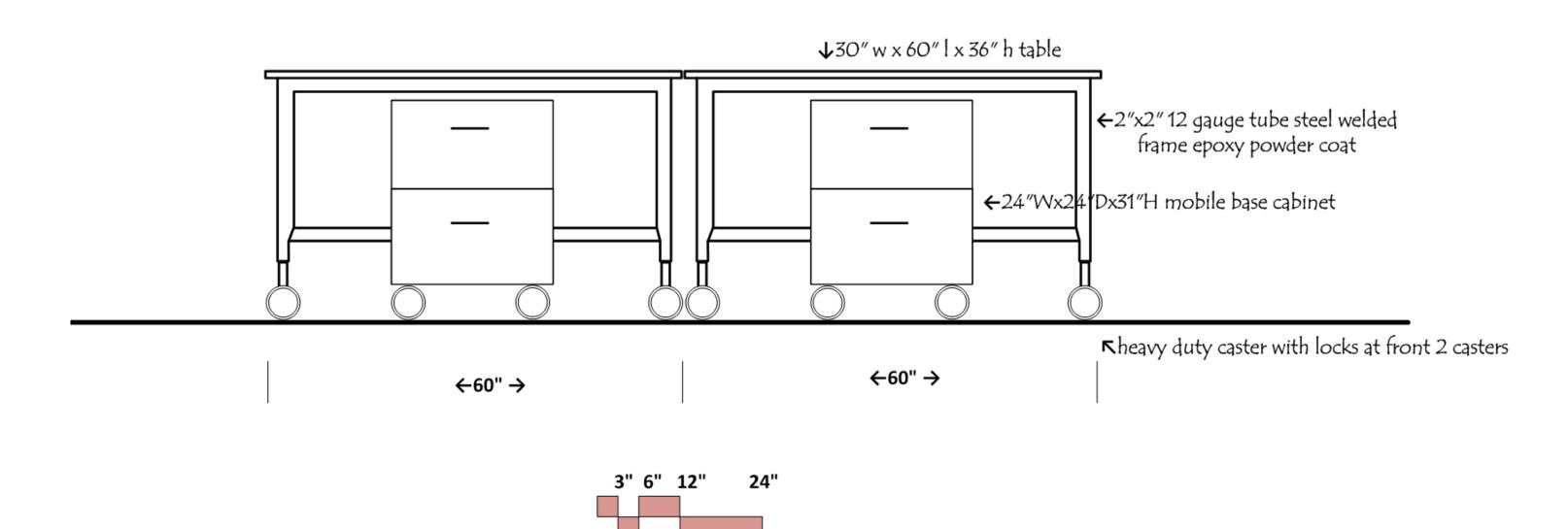
ELEVATION AHAnatomy & Biology Prep



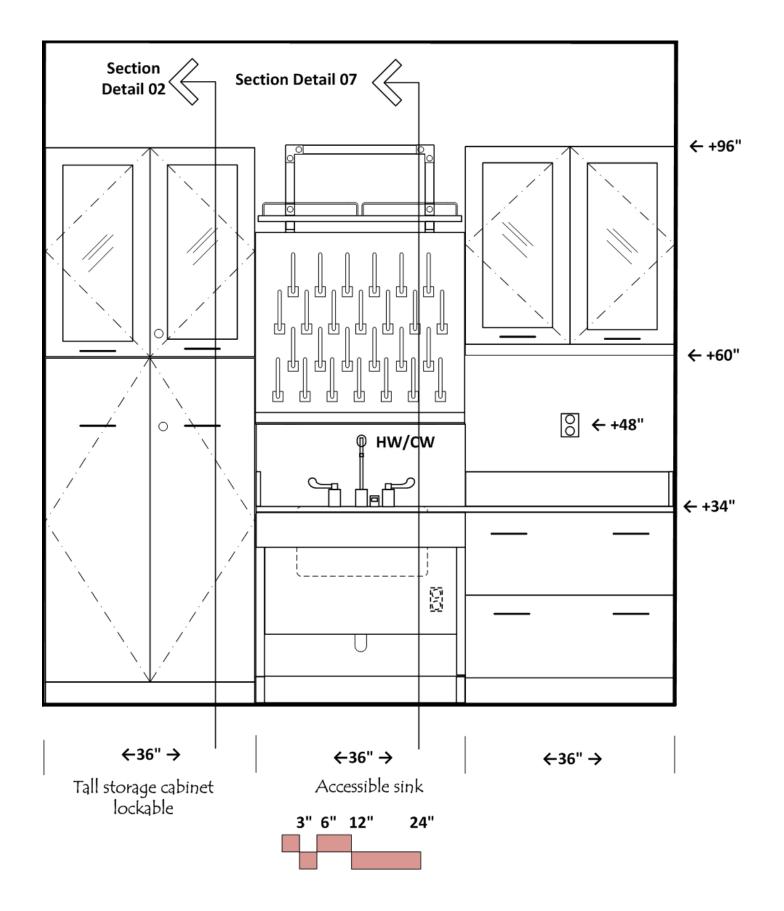
ELEVATION AIAnatomy & Biology Prep



ELEVATION AJAnatomy & Biology Prep



ELEVATION AKAnatomy & Biology Prep



walkway 1 charts 20' marker board charts ·**T** N▼ 13' Instructor demo bench HW/CW (2)Tall storage Safety shower/eyewash Emer. Gas Fire ext. shut-off cabinets SV +34" cupsink cupsink +36" +36" **∢**Q 0 charts (8) 60"x72" island Plumbing and elec typical of all islands +36 KBio Prep chem fume hood +36" +36" +36" HW/CW HW/CW Wall cabinets above P۷ PW P▼ sink +34" +36"

Fixed bench at windows
Base cabinets below



BIOLOGY LAB

ARCHITECTURAL

Occupancy: B

Number of students: 32 Area: ~1600 sf

Floor: sealed concrete

Walls: gypsum board and enamel paint

Ceiling: 9'-6" acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch door at Prep Room

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

STRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F

Humidity: ambient 100% exhaust- VAV

6 air changes per hour occupied 4 air changes per hour unoccupied Equipment heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per

circuit)

Wired and wireless data

Lighting: indirect fluorescent @ 50-60 f.c.; stepped lighting control

PLUMBING

Hot/Cold water at perimeter sinks Pure water at perimeter sinks Cold water, gas at fume hood

Cold water, gas at student islands

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets

Epoxy resin tops and sinks

Faucets & fittings

Chemical Fume Hood (VAV)

Marker board

Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

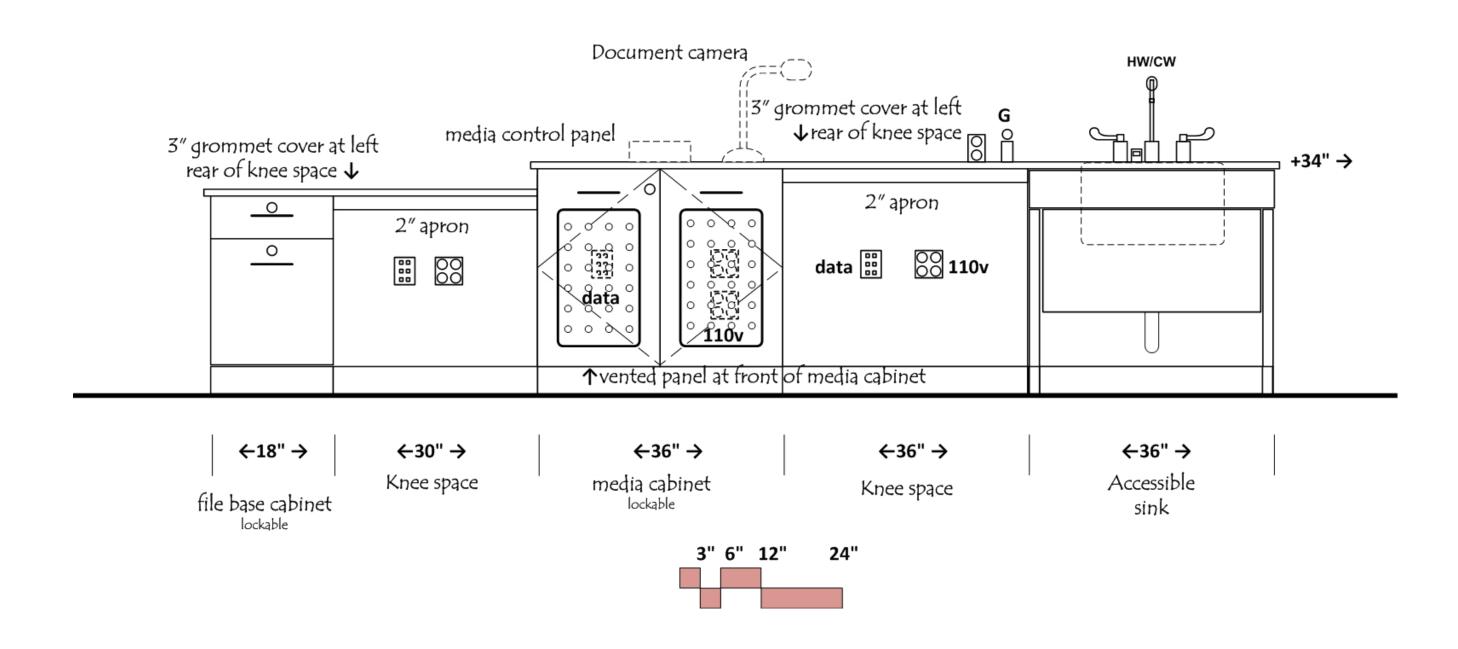
Chairs

Benchtop analytical instruments

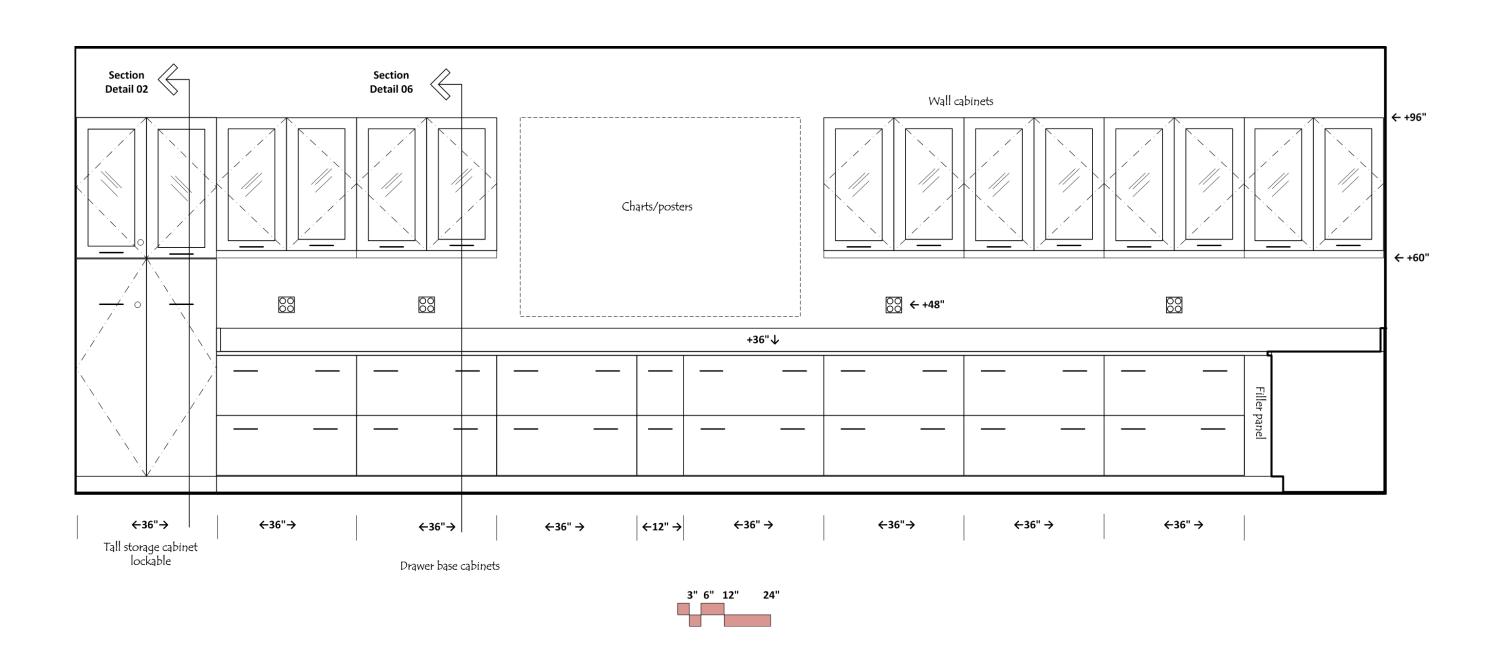
Scientific equipment

Projection system (2 projectors and screens)

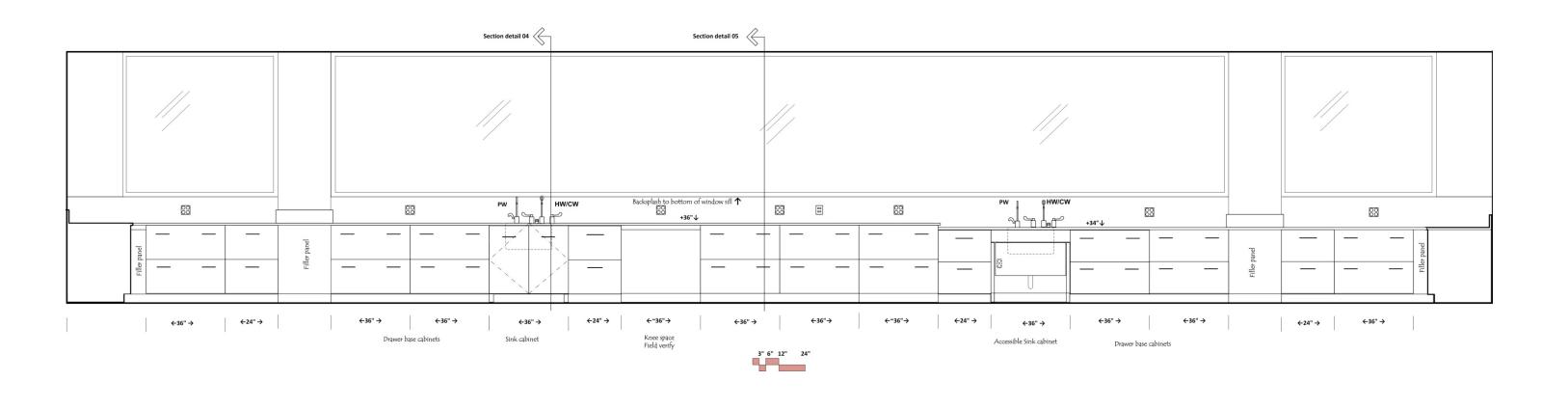
ELEVATION NBiology Lab



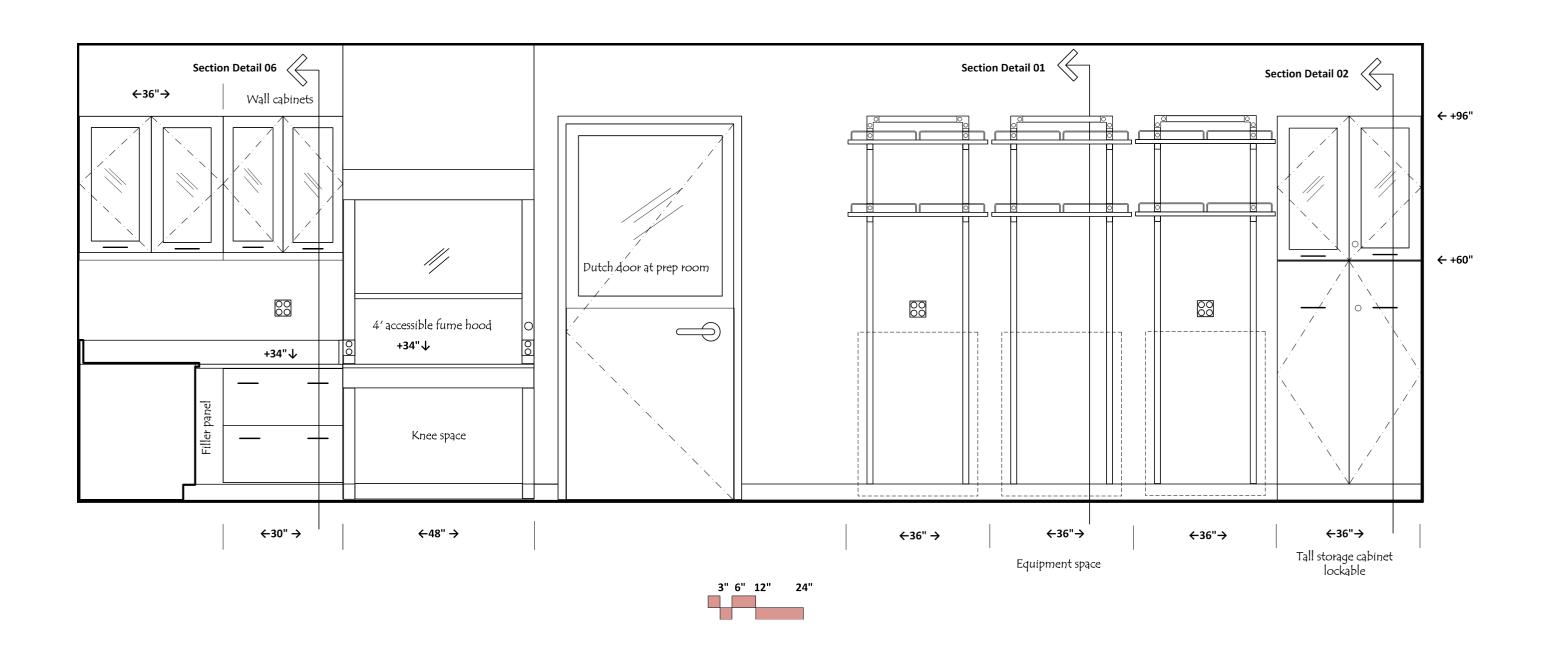
ELEVATION OBiology Lab



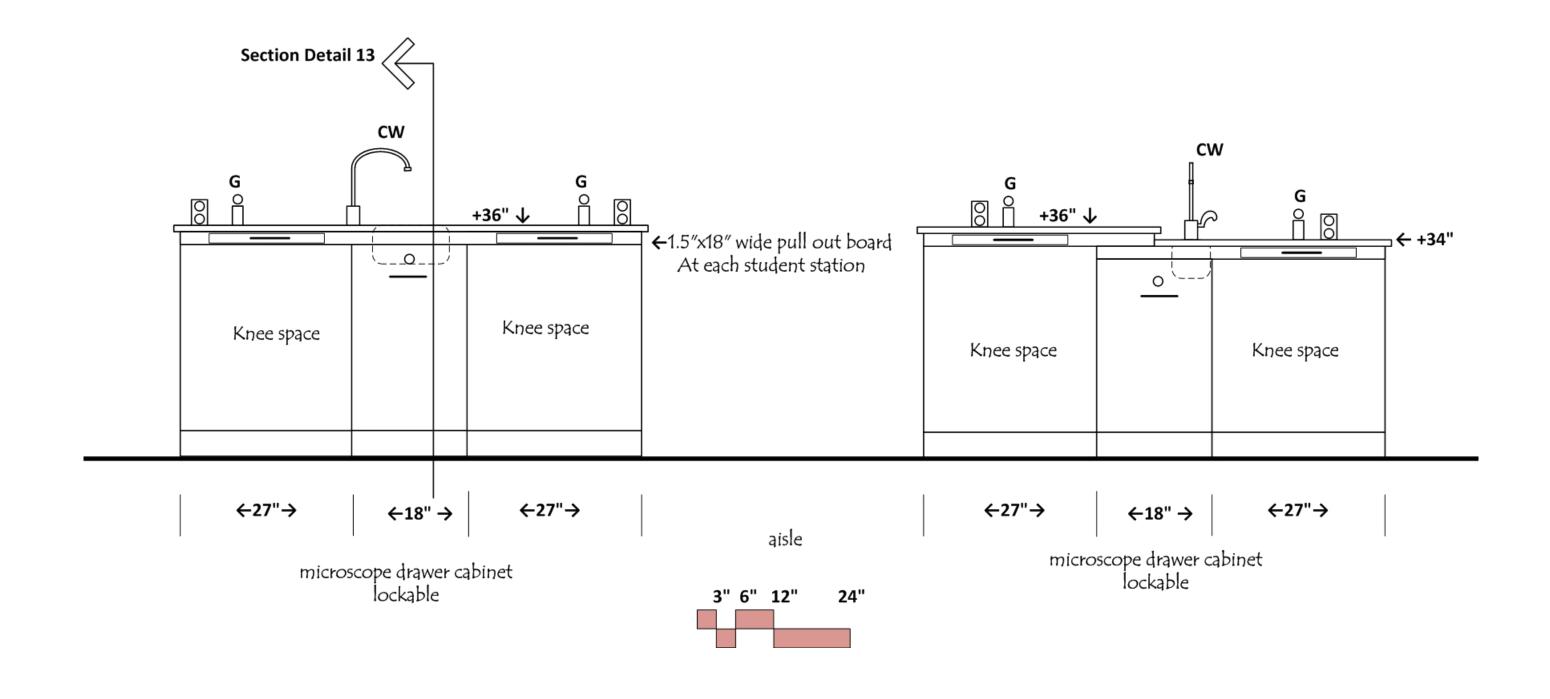
ELEVATION P Biology Lab



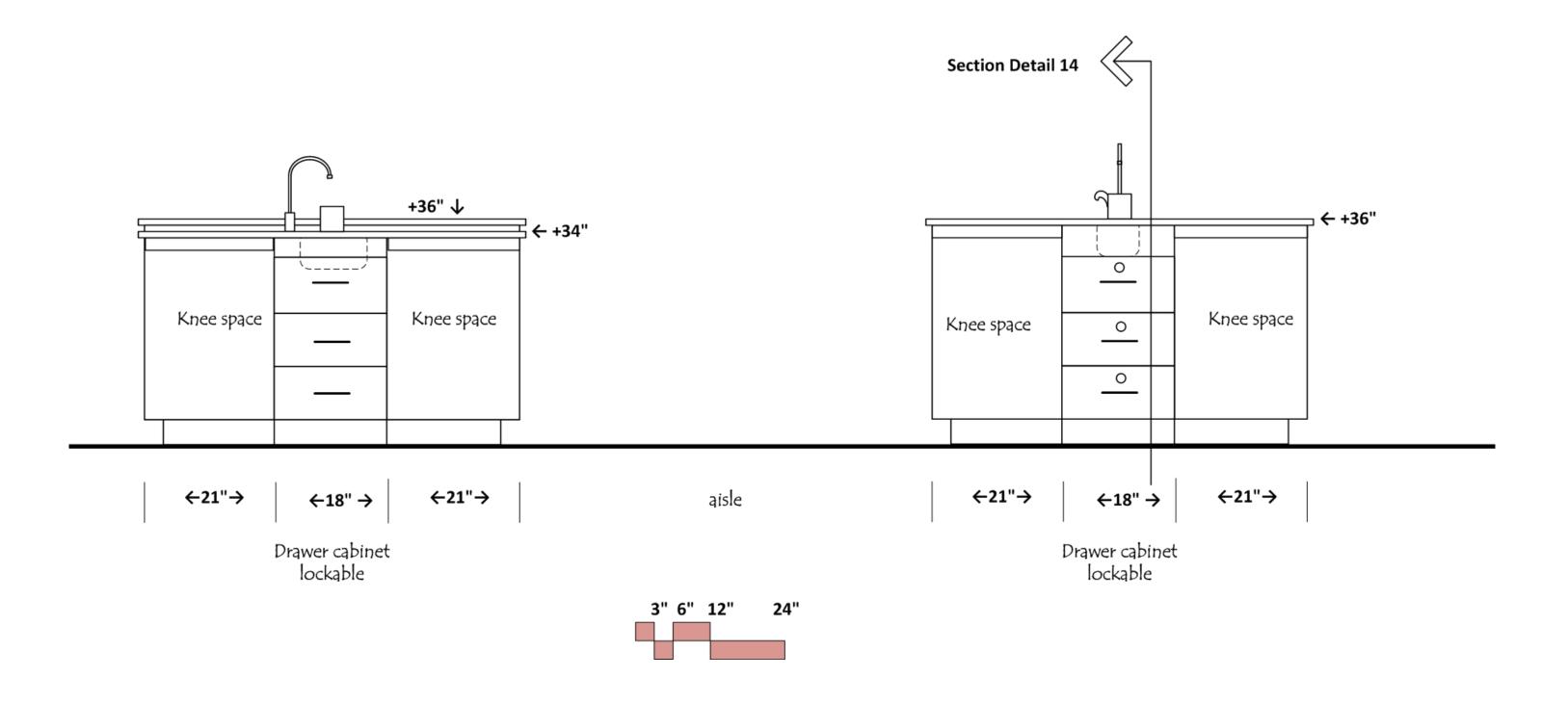
ELEVATION Q Biology Lab



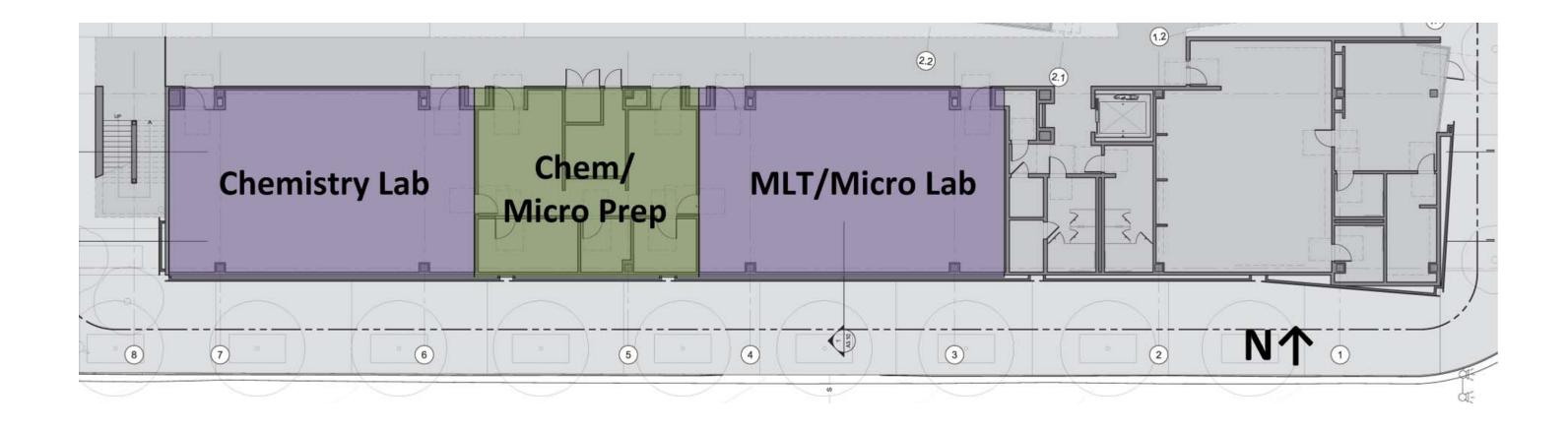
ELEVATION RBiology Lab

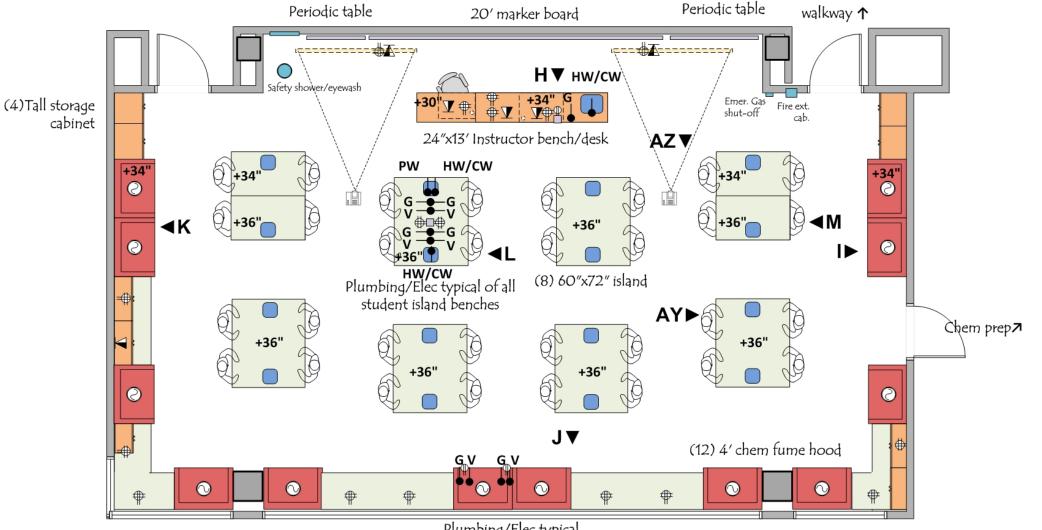


ELEVATION SBiology Lab



LEVEL 1 LABS





Plumbing/Elec typical of all fume hoods



CHEMISTRY LAB

ARCHITECTURAL

Occupancy: B

Number of students: 32

Area: ~1600 sf

Floor: VCT or sealed concrete or rubber tile Walls: gypsum board and enamel paint

Ceiling: 9'-6" acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch door at Prep Room

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

STRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F

Humidity: ambient 100% exhaust- VAV

6 air changes per hour occupied 4 air changes per hour unoccupied Equipment heat gain 25 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per

circuit)

Wired and wireless data

Lighting: indirect fluorescent @ 50-60 f.c.; stepped lighting control

PLUMBING

Hot/Cold water at instructor bench

Gas and vacuum at instructor bench

Cold water at student sinks with vacuum breakers

Pure water at each student island (8 sinks)

Gas and vacuum at student islands (1 gas valve per student; 1 vac valve per student) and fume hoods (gas and vac at each

side of hood)

Emer. gas shut-off

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets

Epoxy resin tops and sinks

Faucets & fittings

Chemical fume hoods (VAV)

Marker board

Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

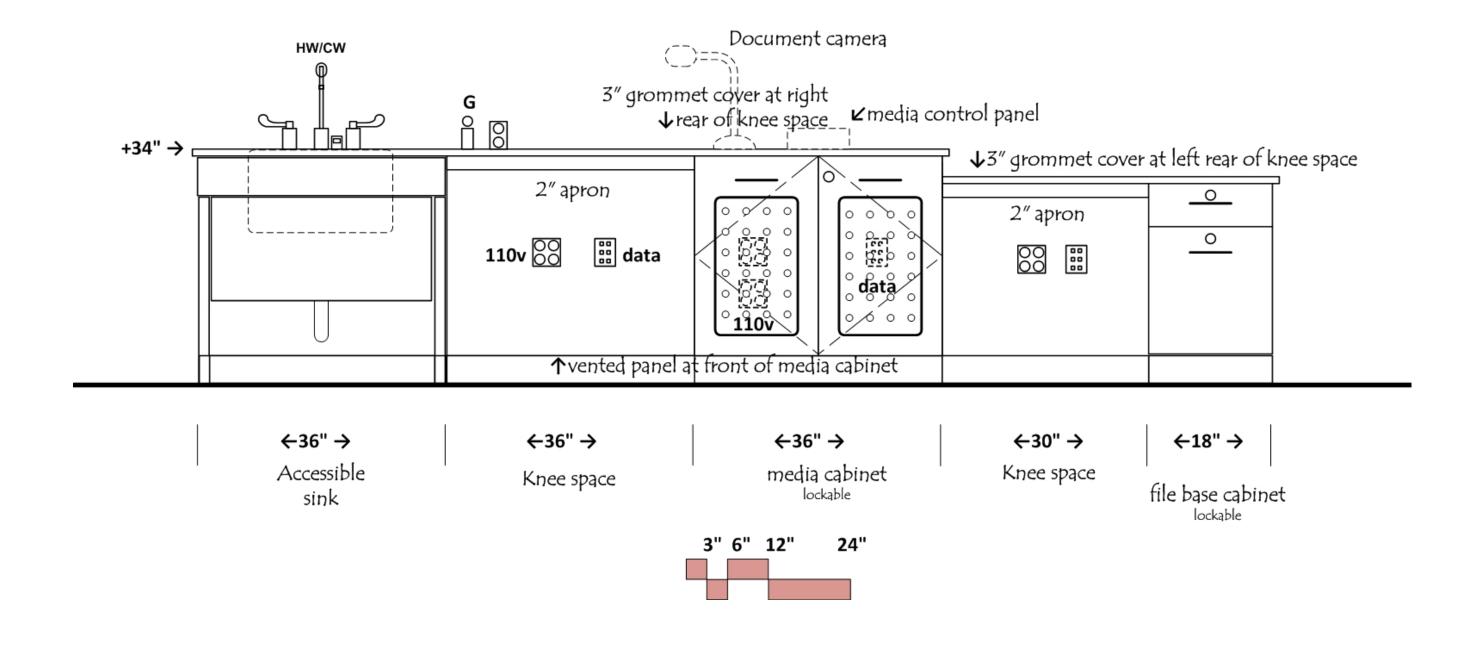
Chairs

Benchtop analytical instruments

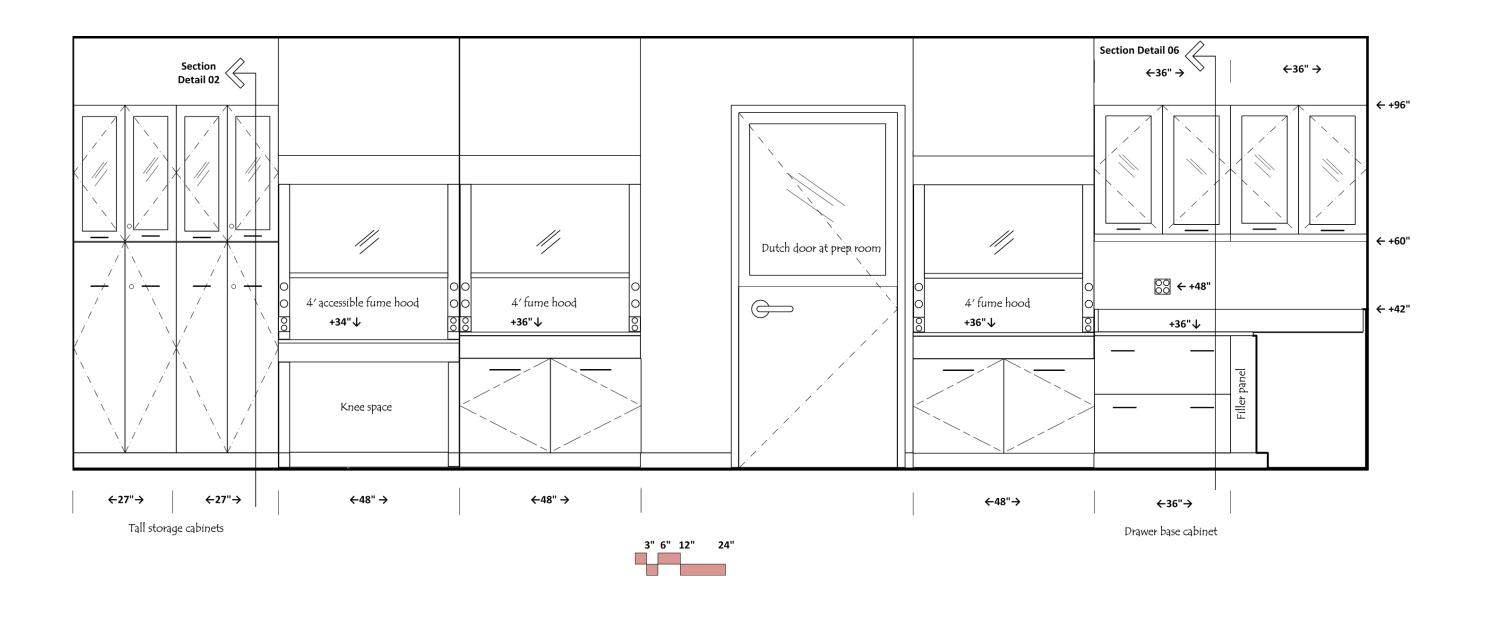
Scientific equipment

Projection system (2 projectors and screens)

ELEVATION HChemistry Lab

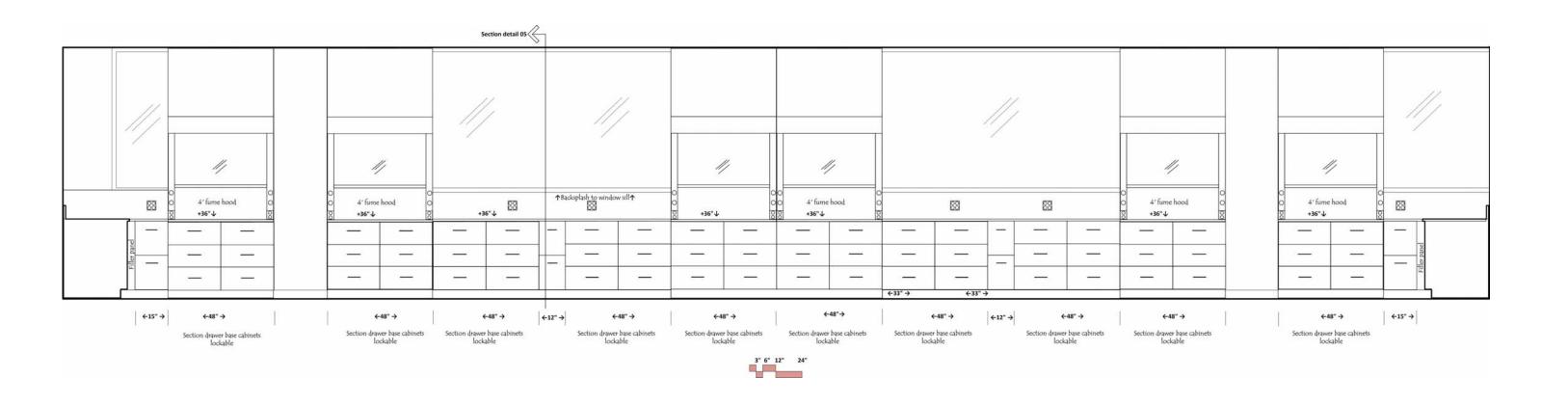


ELEVATION IChemistry Lab

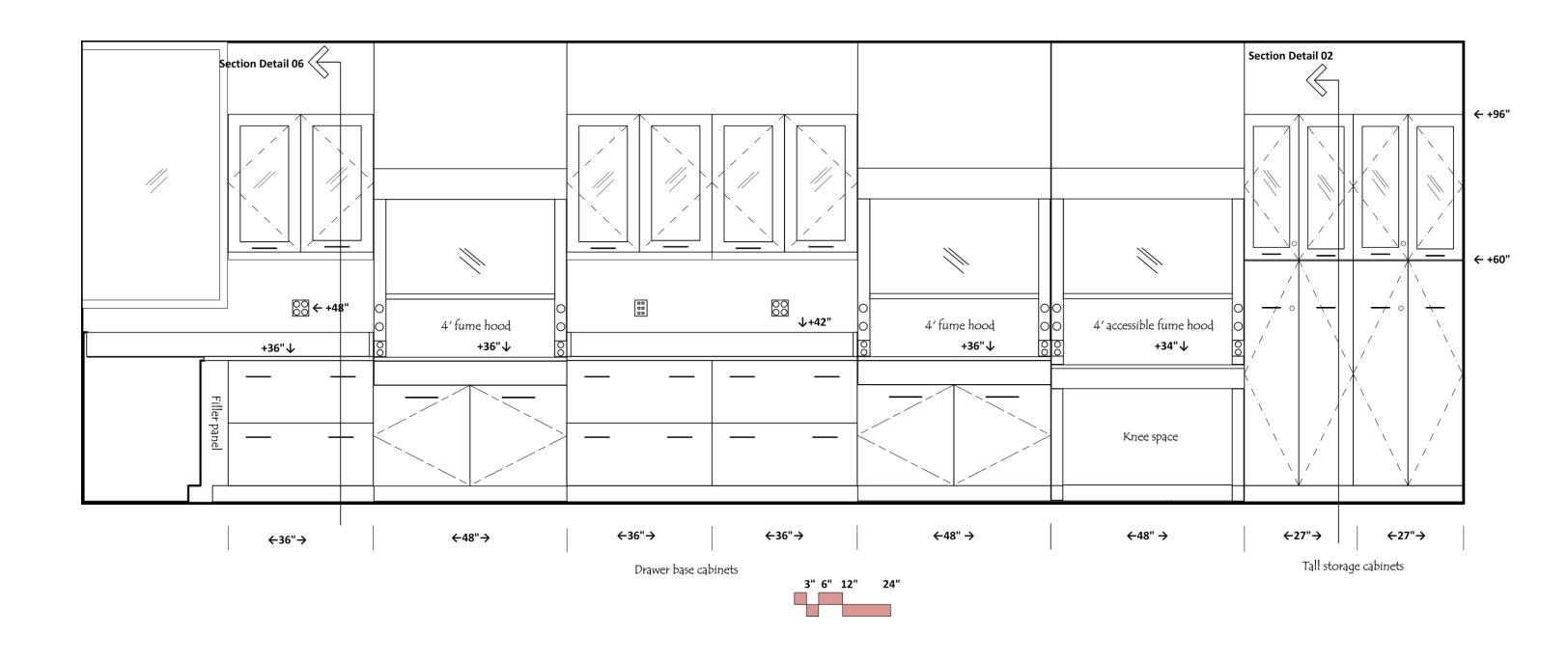


ELEVATION J Chemistry Lab

60 sections drawers at window wall

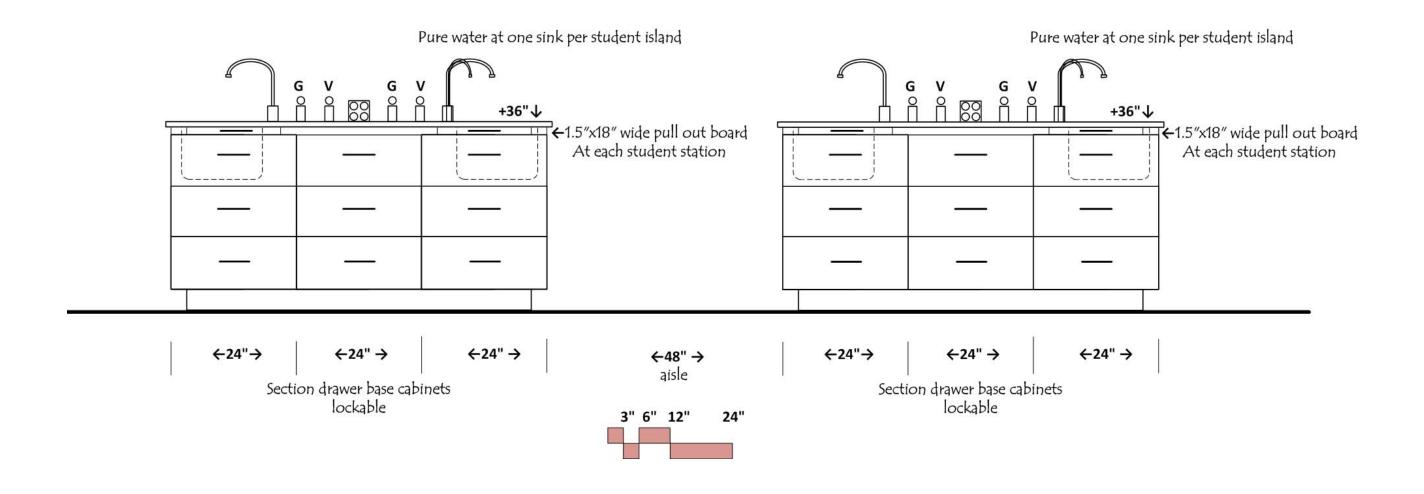


ELEVATION KChemistry Lab



ELEVATION LChemistry Lab

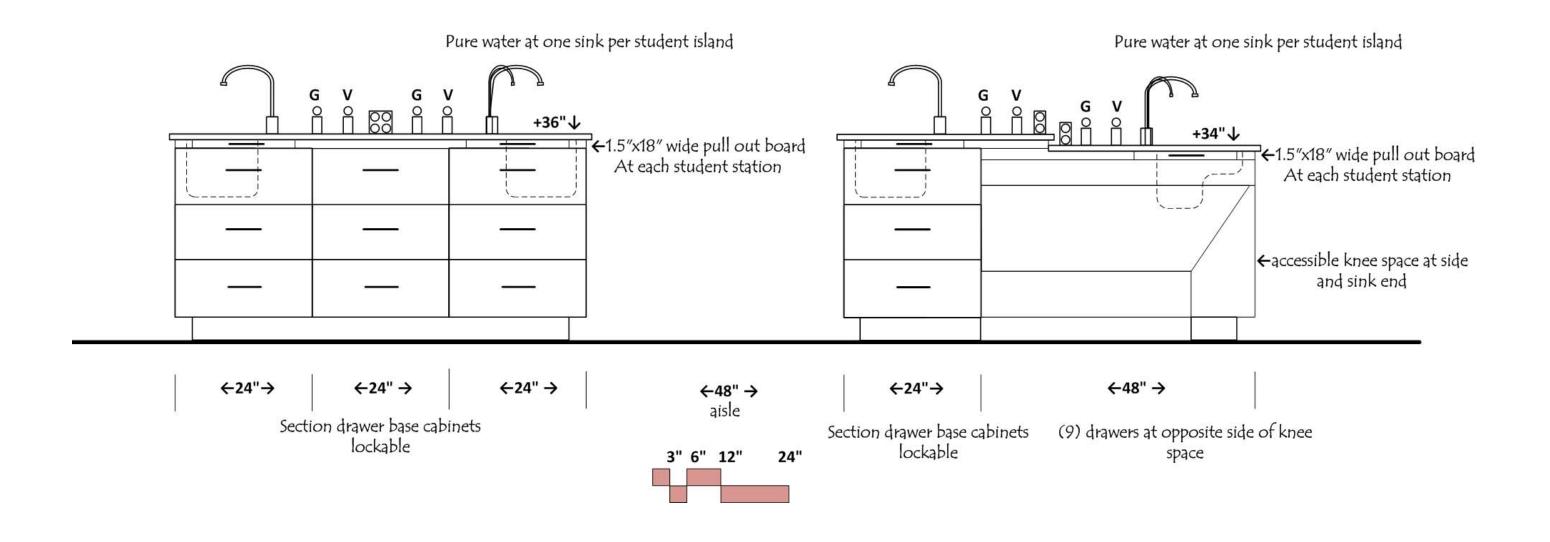
132 section drawers at islands + 60 section drawers at window wall = 192 section drawers total for Chem Lab



ELEVATION M

Chemistry Lab

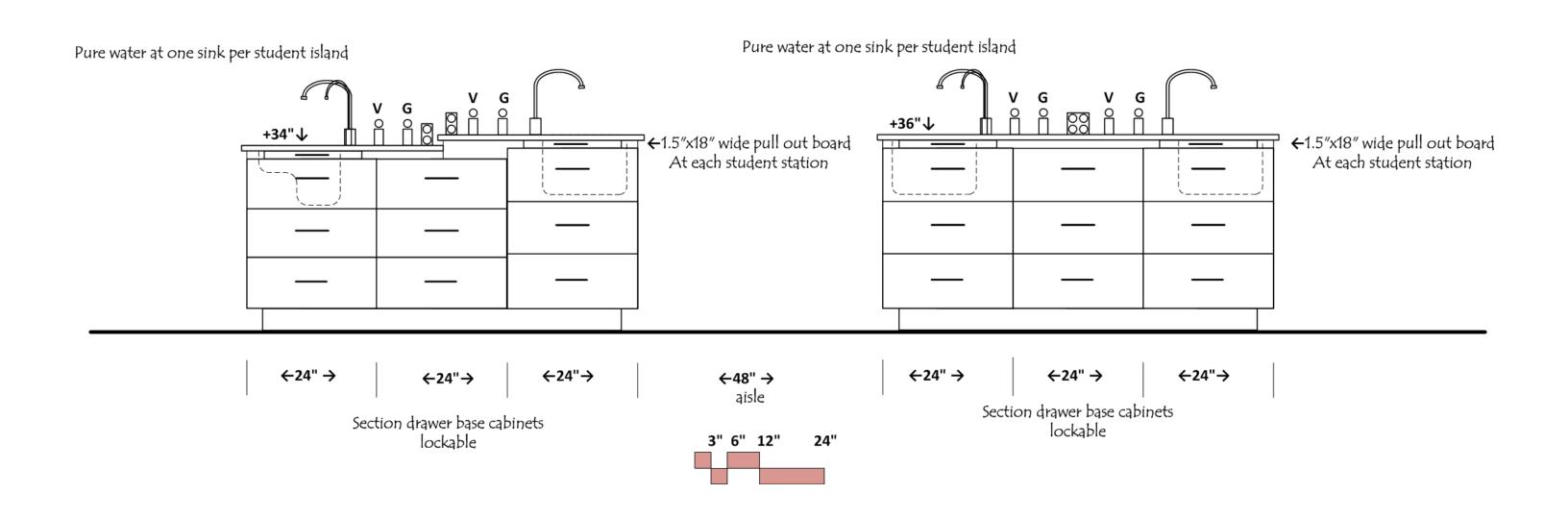
Similar for 2 islands at west side of lab



ELEVATION AY

Chemistry Lab

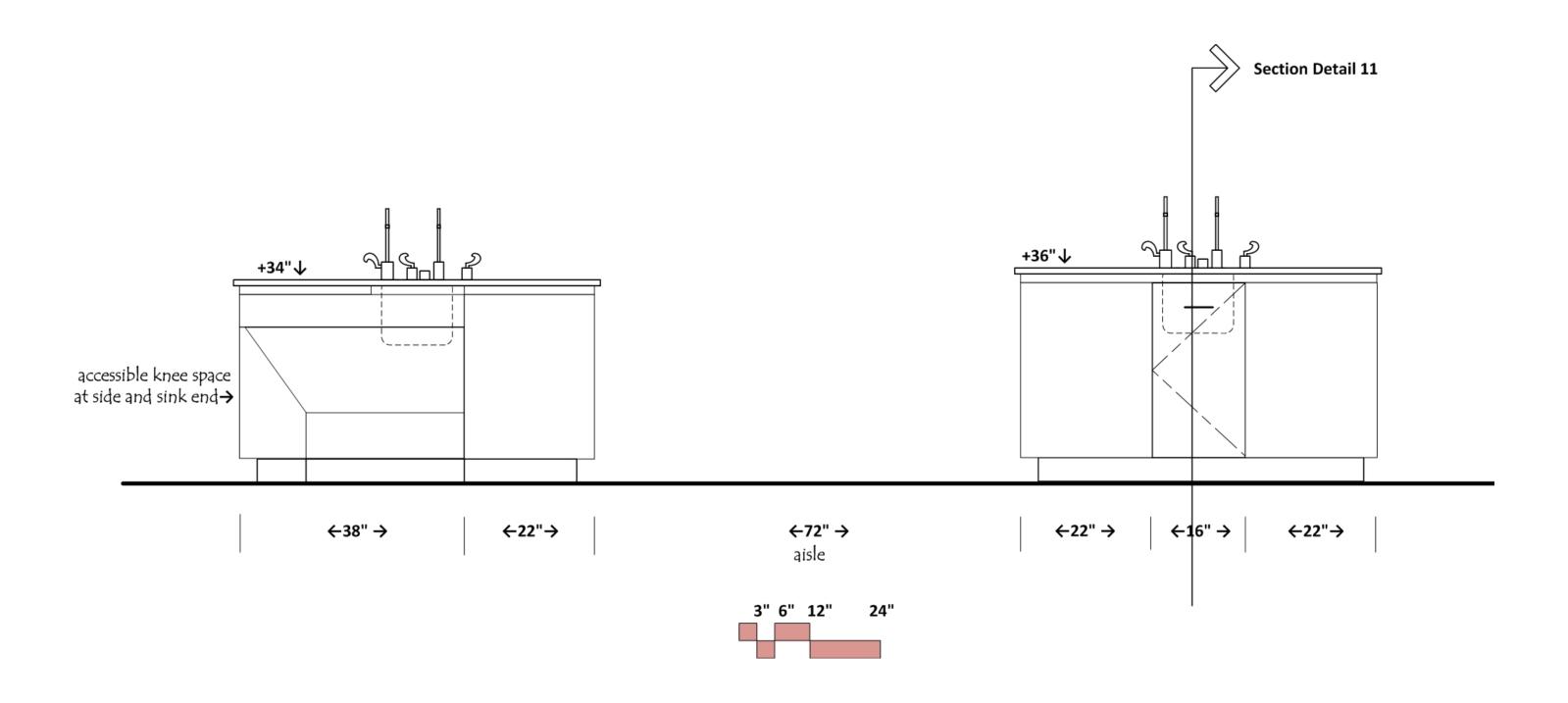
Similar for 2 islands at west side of lab

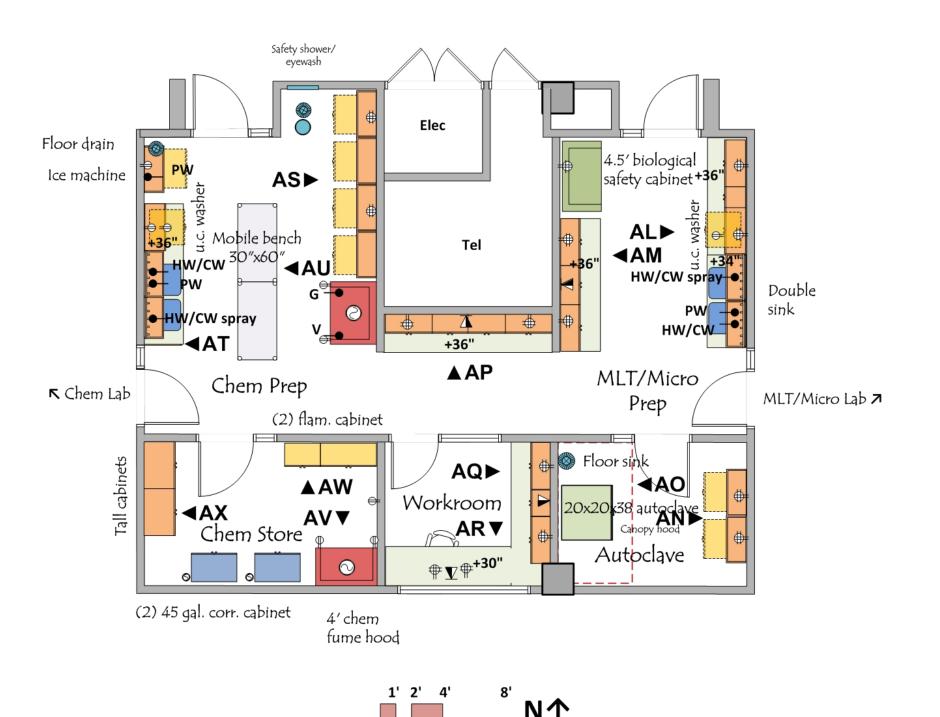


ELEVATION AZ

Chemistry Lab

Similar for 2 islands at west side of lab





1ST FLOOR PREP Chemistry & MLT/Micro

ARCHITECTURAL

Occupancy: B

Floor: sealed concrete

Walls: gypsum board and enamel paint

Ceiling: 9'-6" mylar acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch doors at Labs

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

STRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F

Humidity: ambient 100% exhaust- VAV

6 air changes per hour occupied- Chem Prep 4 air changes per hour unoccupied- Chem Prep 6 air changes per hour 24/7 Chem Store

Heat gain: 75 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per

circuit

Wired and wireless data

Lighting: indirect fluorescent @ 50 f.c.

PLUMBING

Hot/Cold water at sinks

Pure water at sinks and u.c. washer

Gas and vacuum at wall bench and fume hood

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets

Mobile lab benches

Epoxy resin tops and sinks

Faucets & fittings

Chemical Fume Hoods (VAV)

Biological Safety Cabinet- Class II type A

Corrosive storage cabinets- vented

Flammable storage cabinets- not vented

Undercounter washer

Autoclave; canopy hood

Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

Chairs

Benchtop analytical instruments

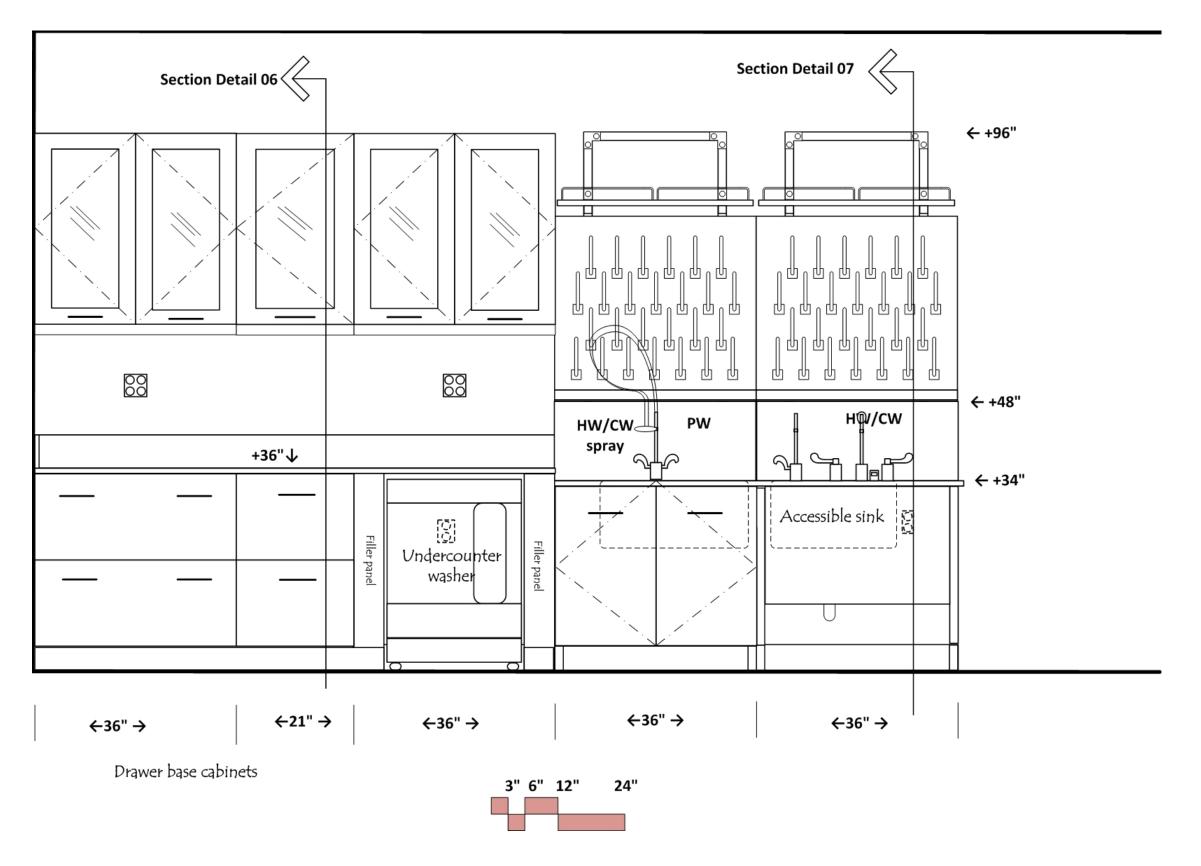
Scientific equipment

Ice machine

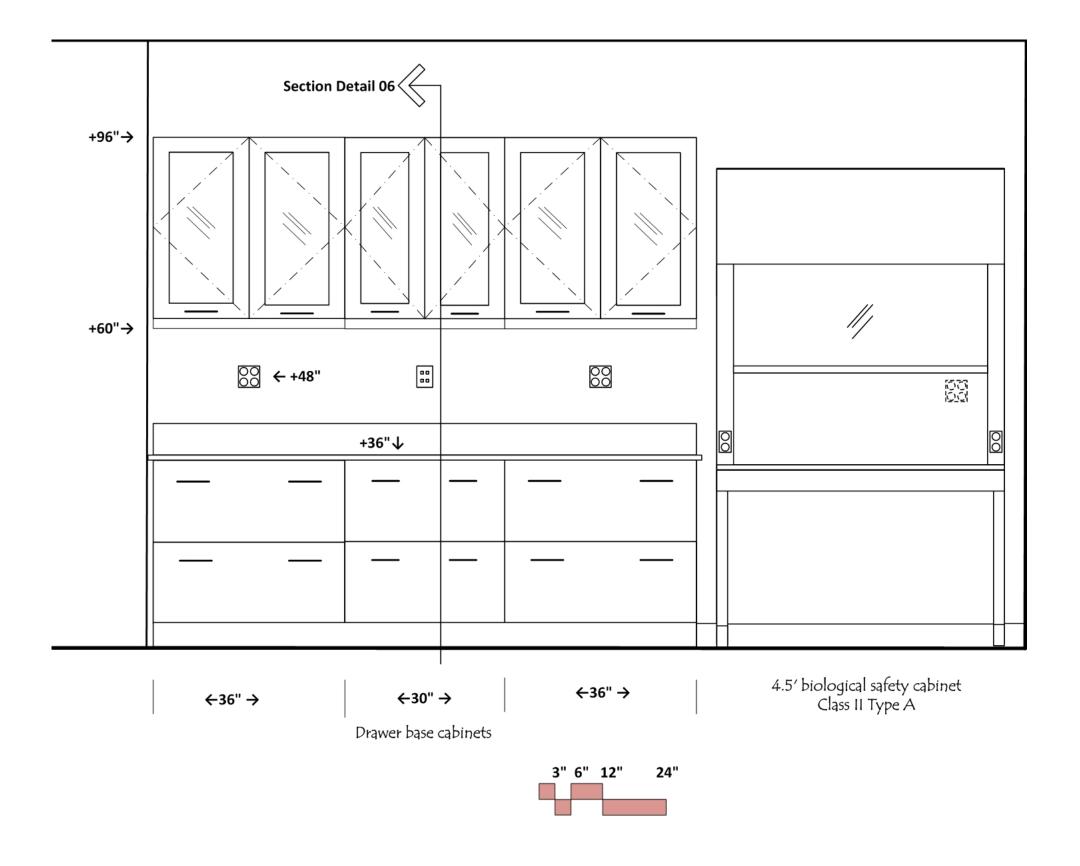
Oven (benchtop)

Explosion proof refrigerator

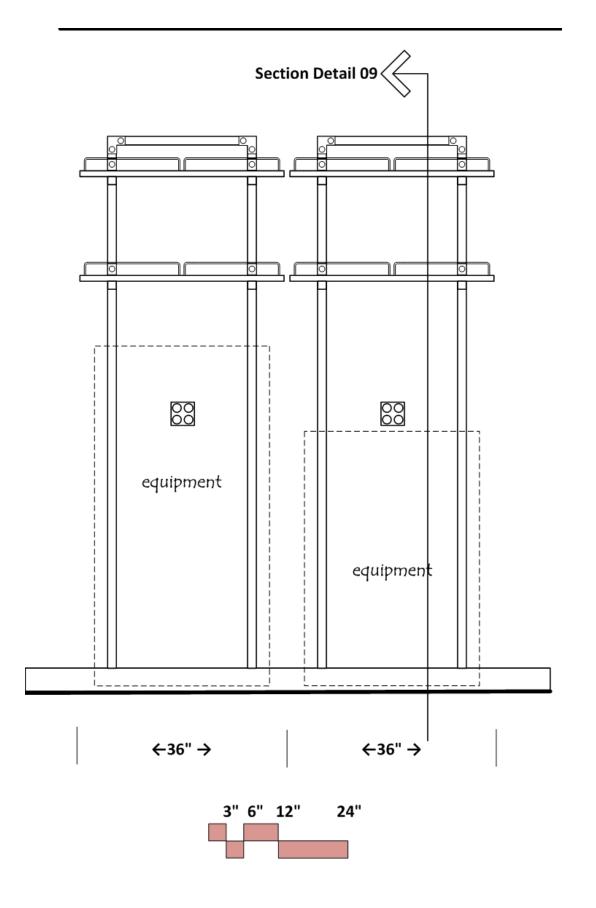
ELEVATION ALChemistry & MLT/Micro Prep



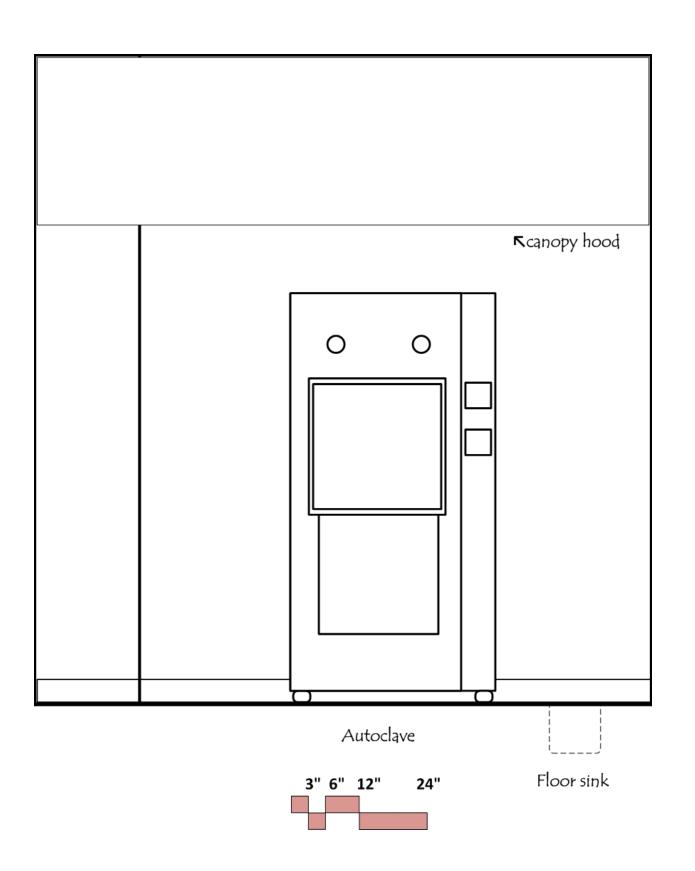
ELEVATION AM Chemistry & MLT/Micro Prep



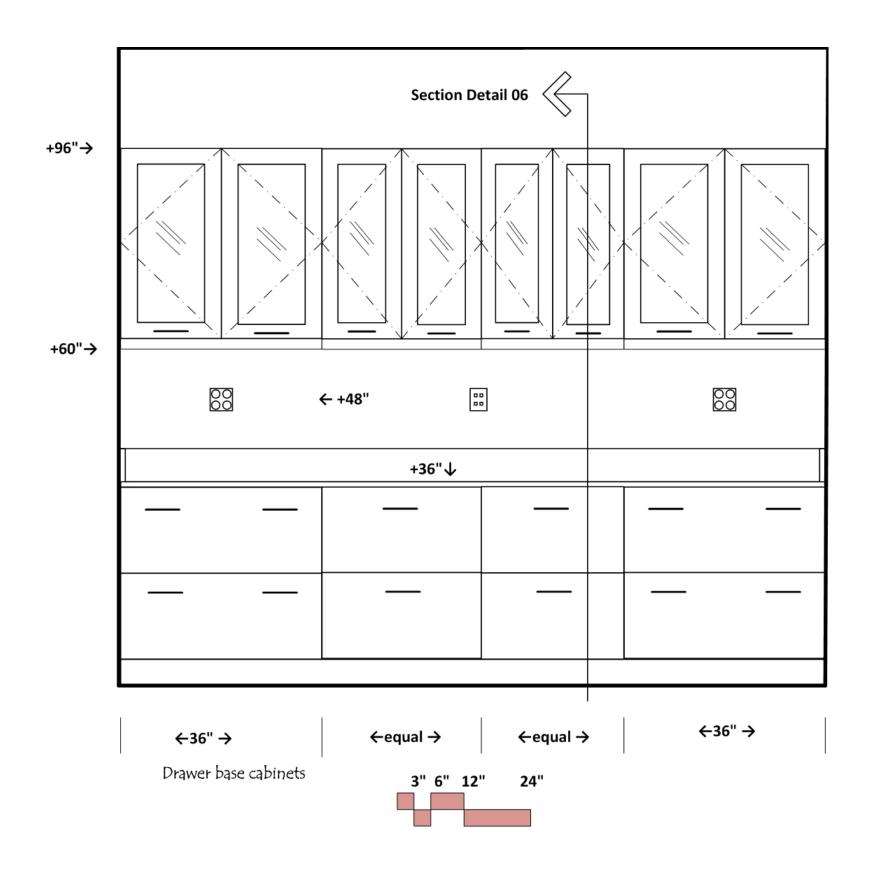
ELEVATION AN Chemistry & MLT/Micro Prep



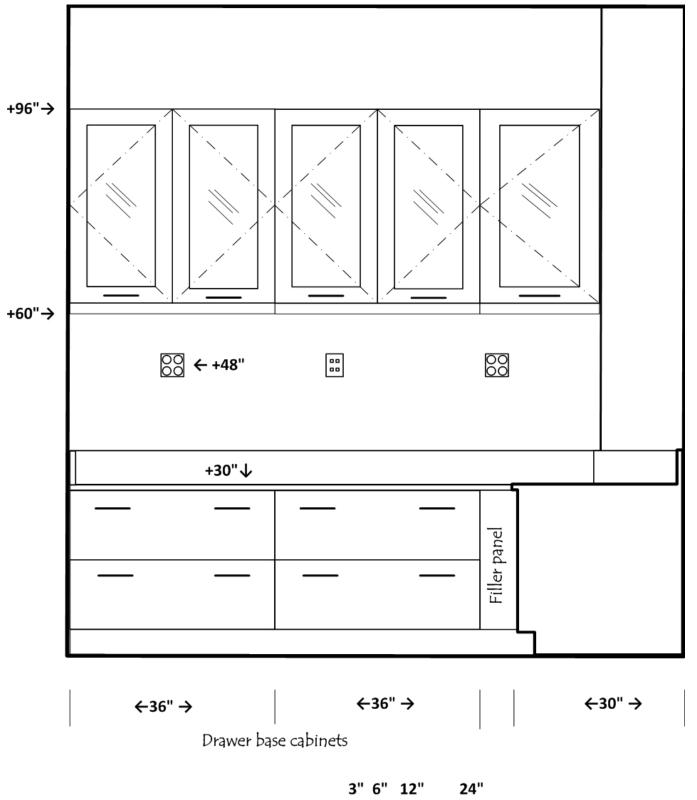
ELEVATION AO Chemistry & MLT/Micro Prep



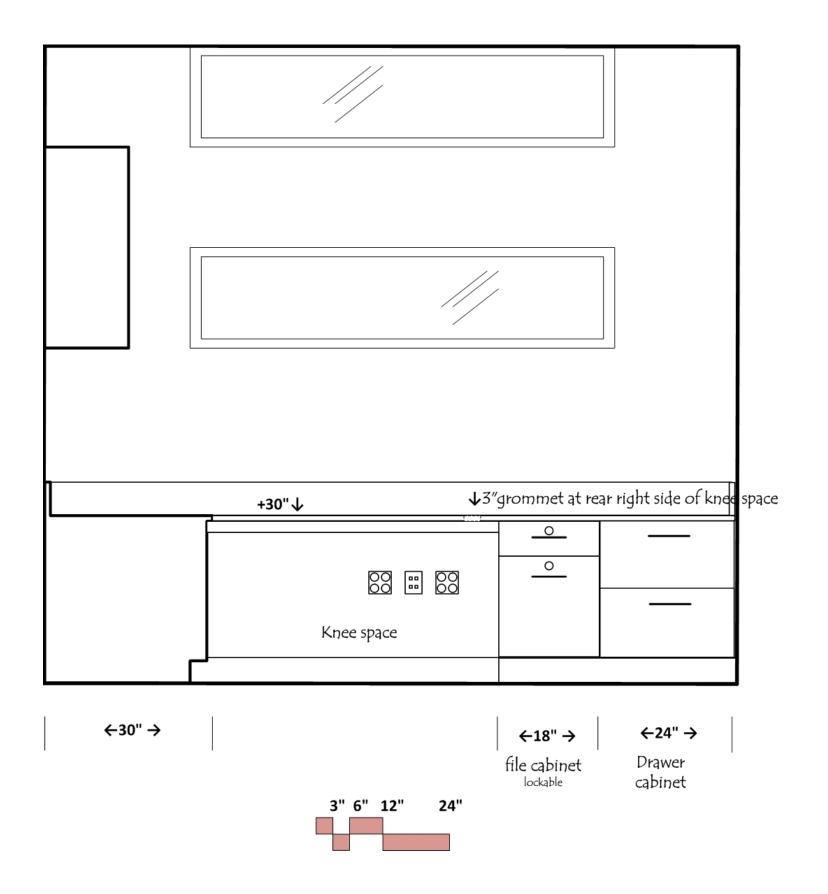
ELEVATION AP Chemistry & MLT/Micro Prep



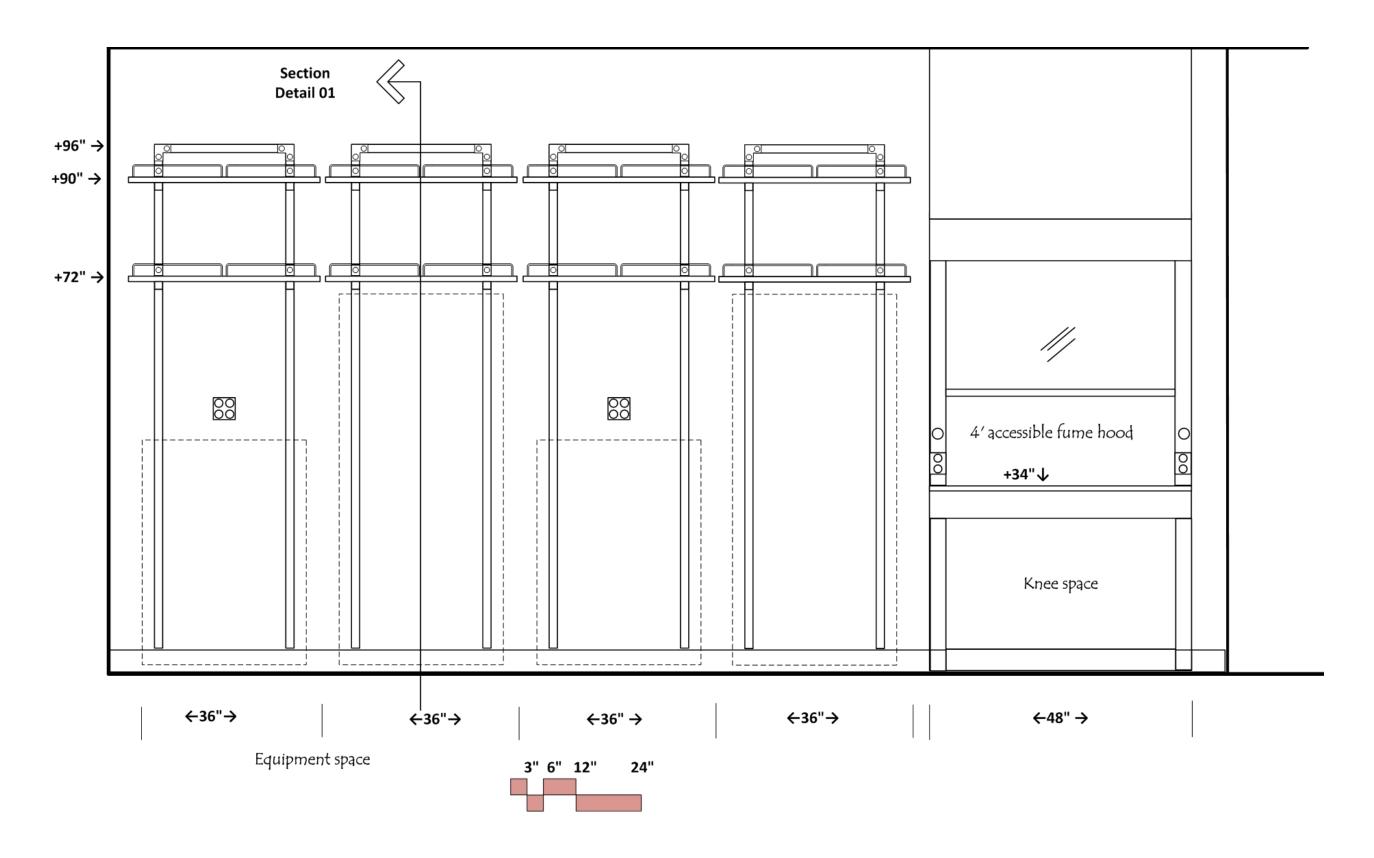
ELEVATION AQ Chemistry & MLT/Micro Prep



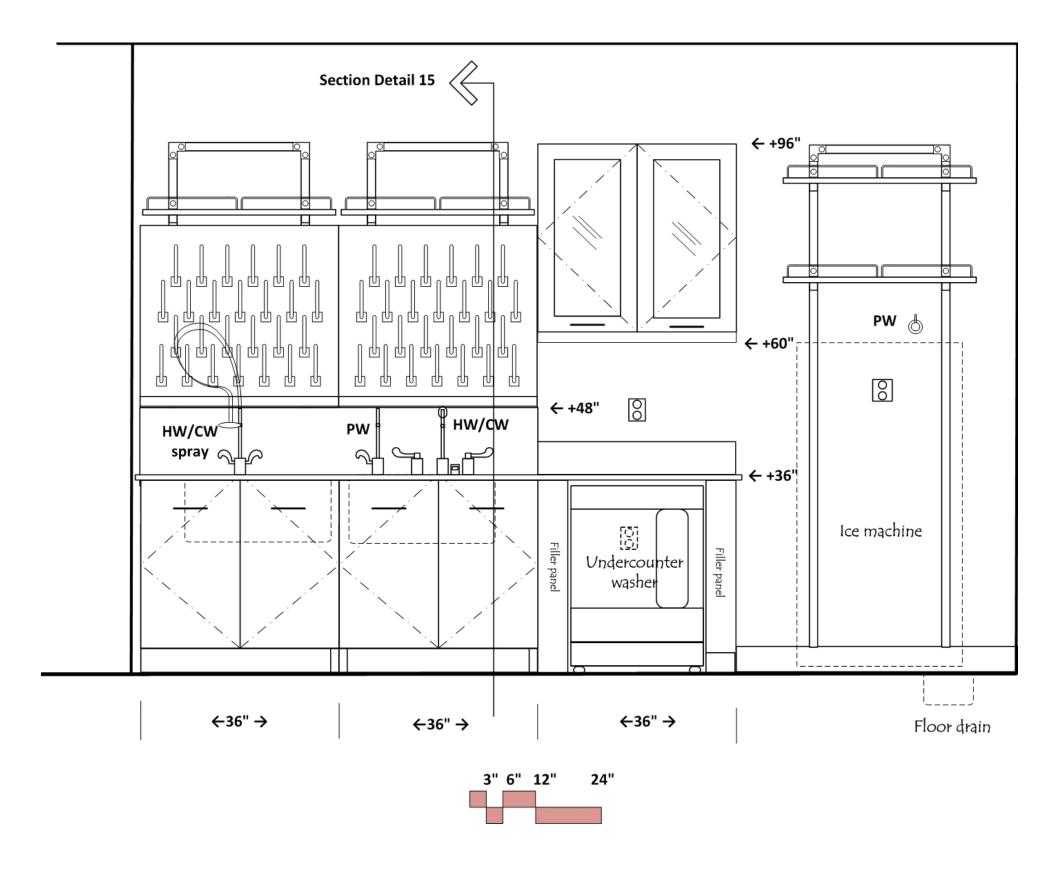
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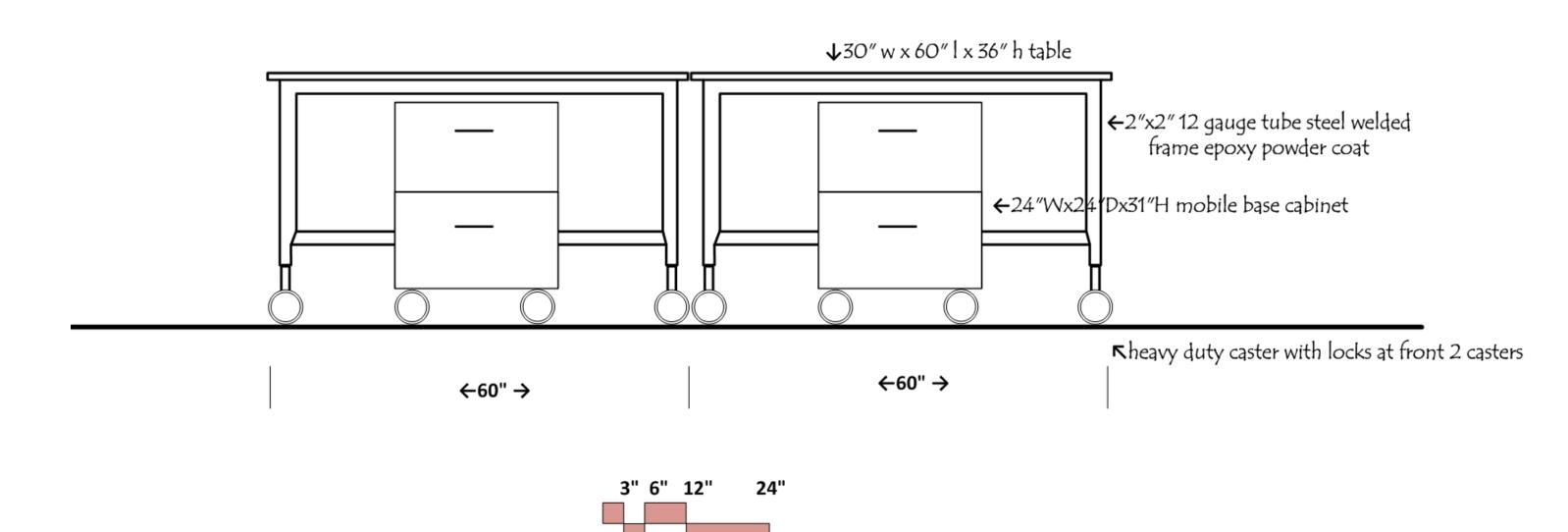
ELEVATION AS Chemistry & MLT/Micro Prep



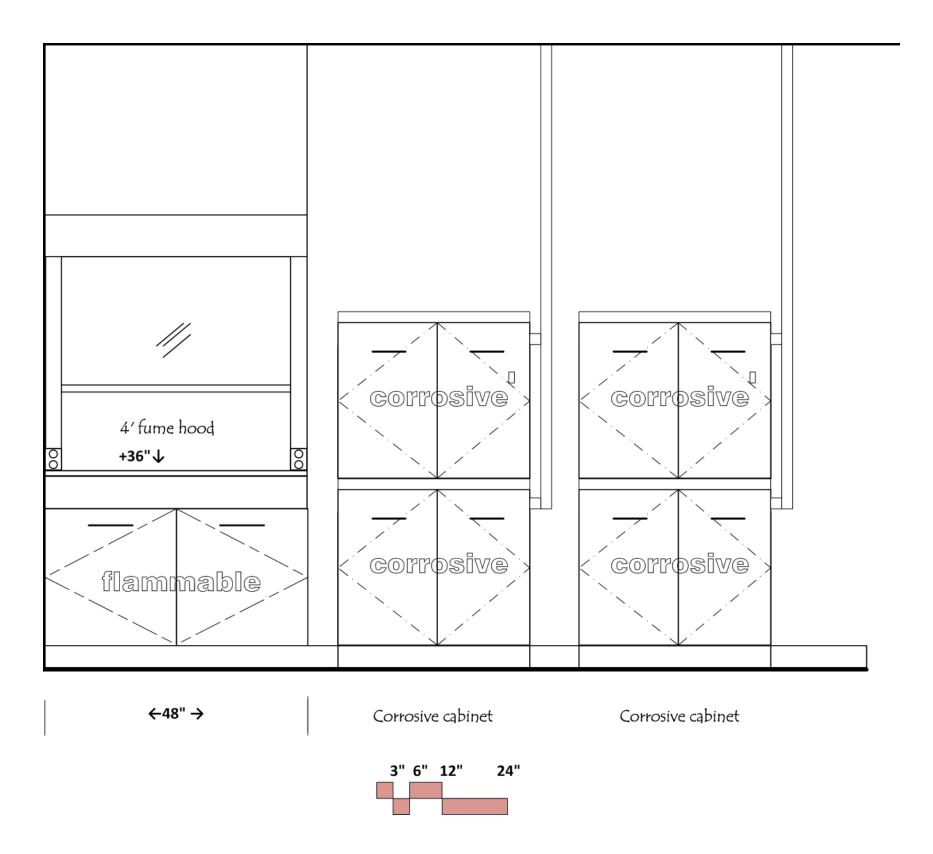
ELEVATION ATChemistry & MLT/Micro Prep



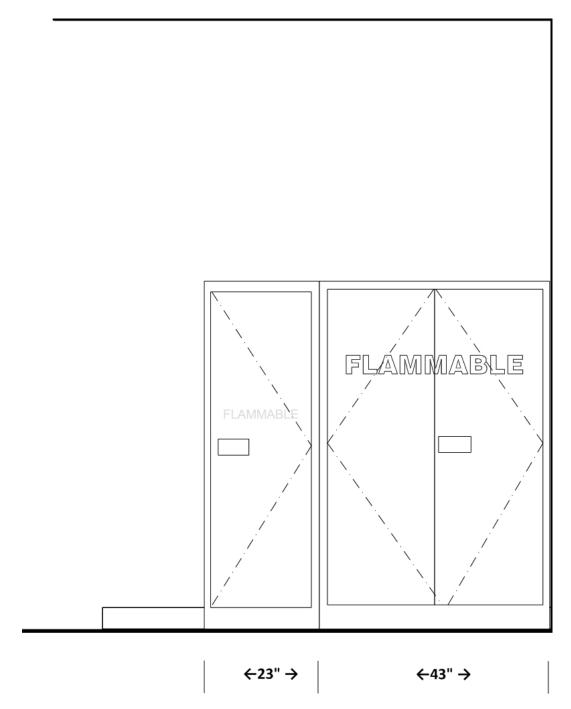
ELEVATION AUChemistry & MLT/Micro Prep



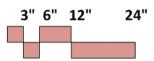
ELEVATION AVChemistry & MLT/Micro Prep



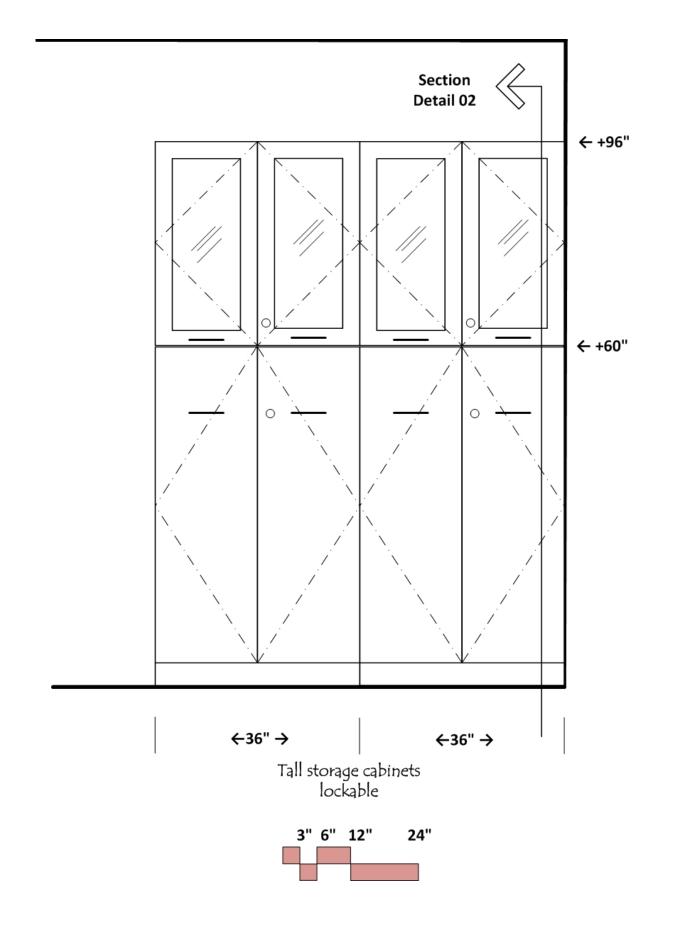
ELEVATION AW Chemistry & MLT/Micro Prep



Flammable cabinets



ELEVATION AXChemistry & MLT/Micro Prep



walkway 1 charts 20' marker board charts **A** ---------- 13' Instructor demo bench /HW/CW (2)Tall storage Emer. Gas Fire ext. cabinets shut-off Y▼ +34" +34" cupsink cupsink Equipment space BB▶ Shelves above +36" +36" (8) 60"x72" island Plumbing and elec typical of all islands U▶ 4.5' biological safety **K**Bio Prep chem fume hood cabinet- Class II Type A +36" +36" +36" HW/CW PW HW/CW PW Wall cabinets above HW/CW sink +36" $\mathbf{V} \oplus$ Fixed bench at windows Base cabinets below

MLT/MICROBIOLOGY LAB

Medical Laboratory Technician

ARCHITECTURAL

Occupancy: B

Number of students: 32

Area: ~1600 sf

Floor: sealed concrete

Walls: gypsum board and enamel paint

Ceiling: 9'-6" acoustic tile;

Doors: 3⁶x8⁰ with window; Dutch door at Prep Room

Acoustic Attenuation: NC 40 or less Light Attenuation: at exterior windows

Security: card key access

TRUCTURAL

Vibration attenuation: 4,000 microinches per second or less

MECHANICAL

Temperature: 72 deg F +/- 2 deg F

Humidity: ambient 100% exhaust- VAV

6 air changes per hour occupied (air change rate may be higher

\ due to equipment heat gain)
4 air changes per hour unoccupied
Equipment heat gain: 50 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per

circuit)

Wired and wireless data

Lighting: indirect fluorescent @ 50-60 f.c.; stepped lighting control

PLUMBING

Hot/Cold water at perimeter sinks

Pure water at 2 perimeter sinks

Gas and vacuum at instructor bench

Cold water at student sinks with vacuum breakers $% \left(t\right) =\left(t\right) \left(t$

Gas at student islands

Gas and vacuum at fume hood

Emer. gas shut-off

Domestic water at safety shower/eyewash

Drain at safety shower/eyewash

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets

Epoxy resin tops and sinks

Faucets & fittings

Biological Safety Cabinet- Class II Type A

Chemical fume hood- VAV

Marker board

Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

Chairs

Benchtop analytical instruments

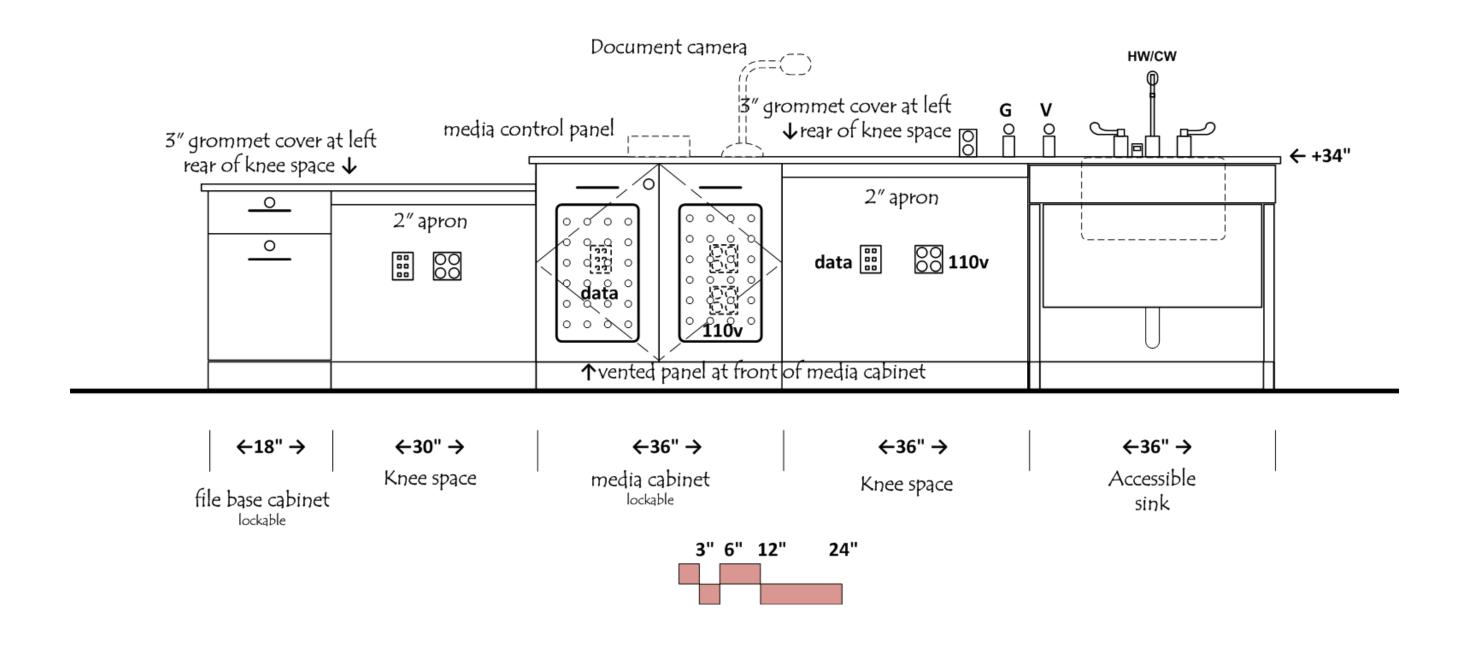
Scientific equipment

Incubators (floor)

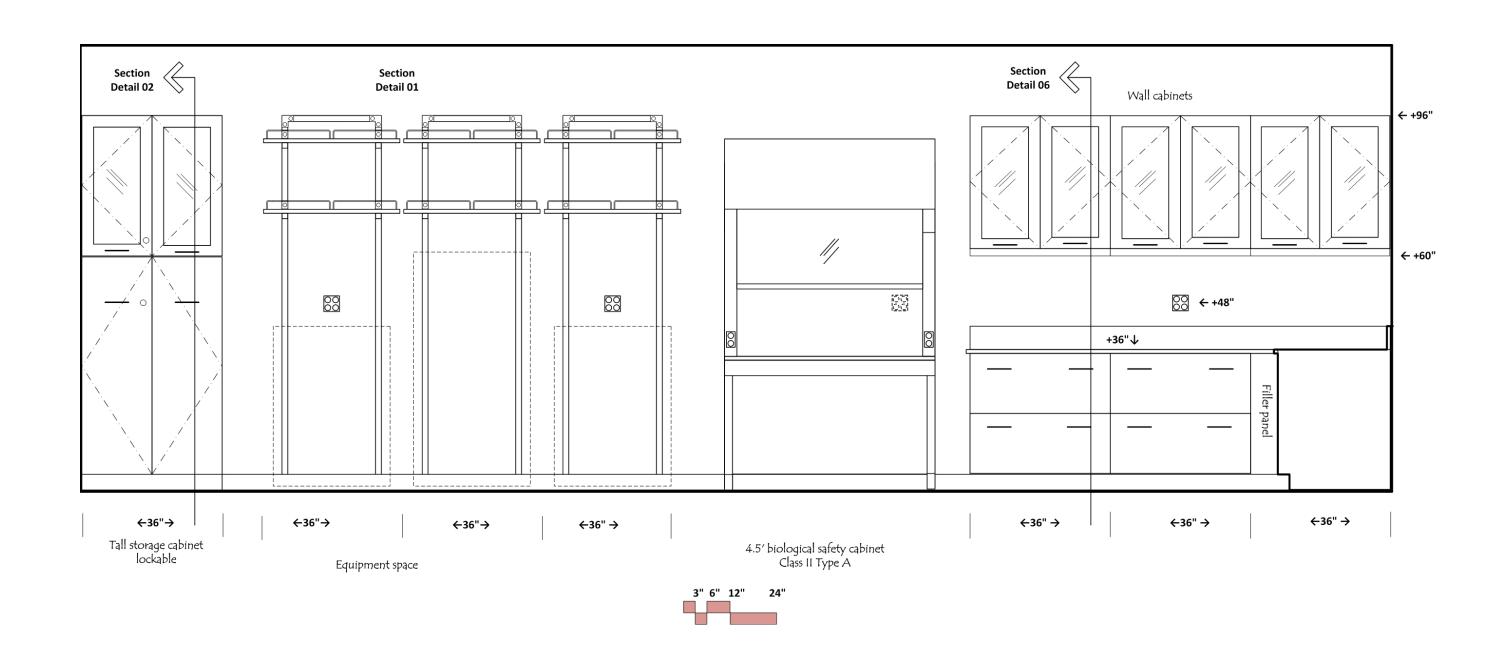
Centrifuge (benchtop)

Projection system (2 projectors and screens)

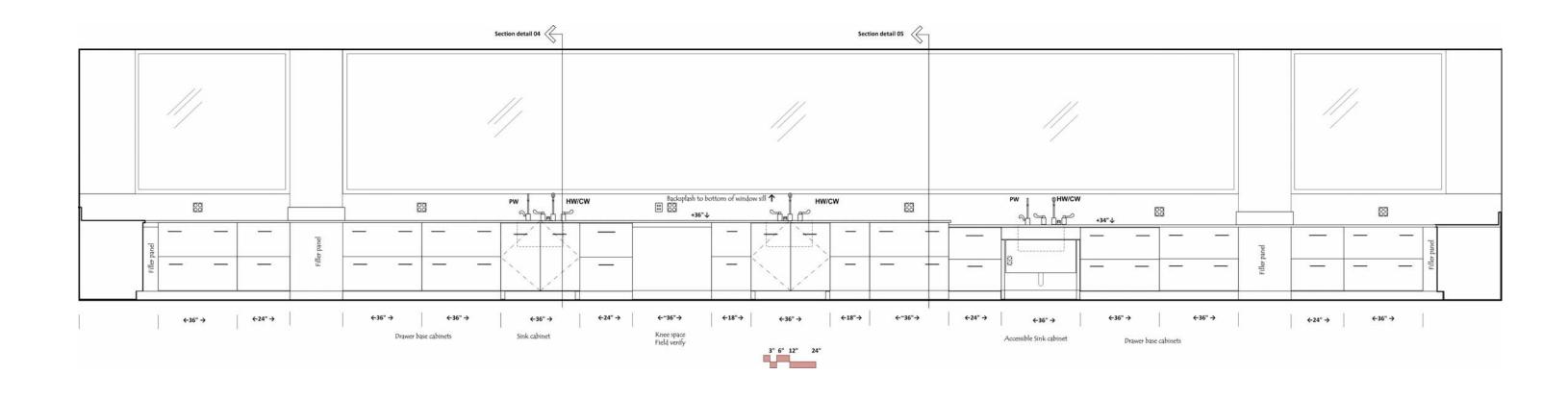
ELEVATION TMLT/Microbiology lab



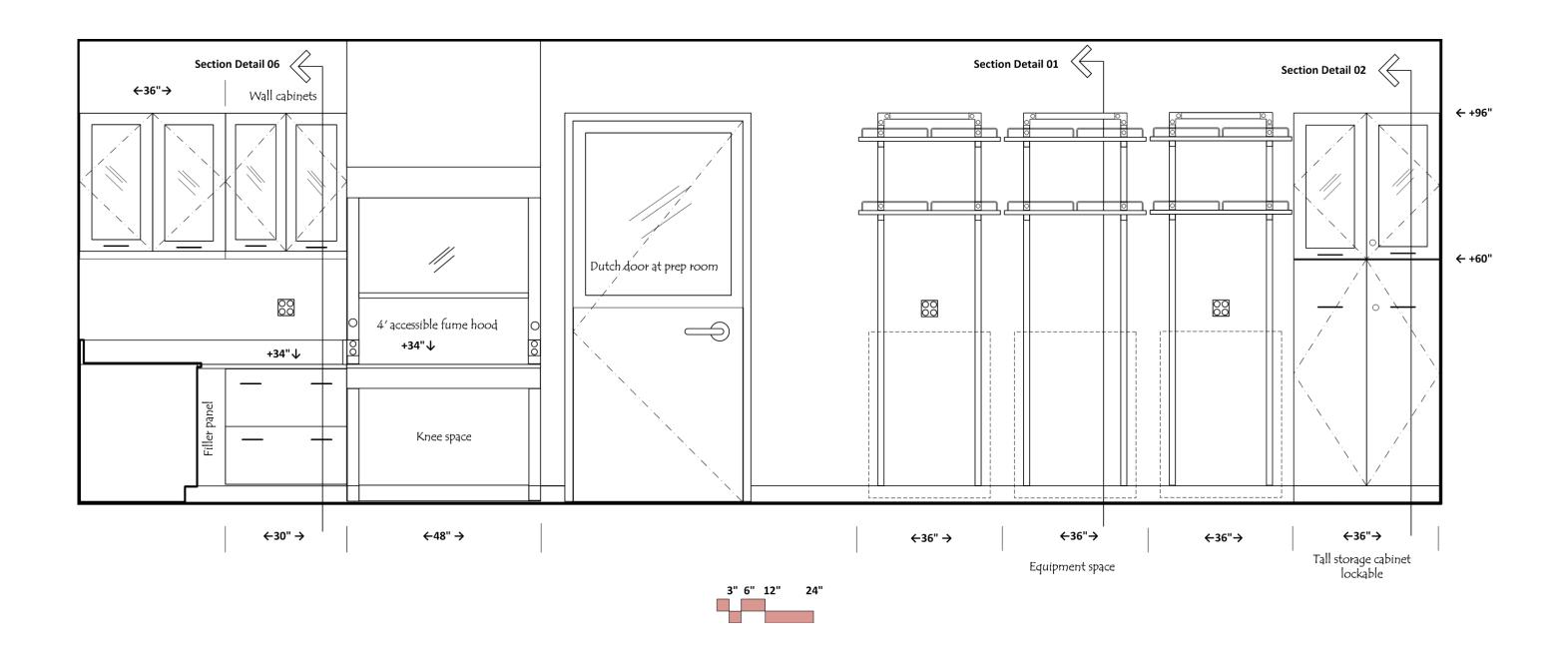
ELEVATION U MLT/Microbiology lab



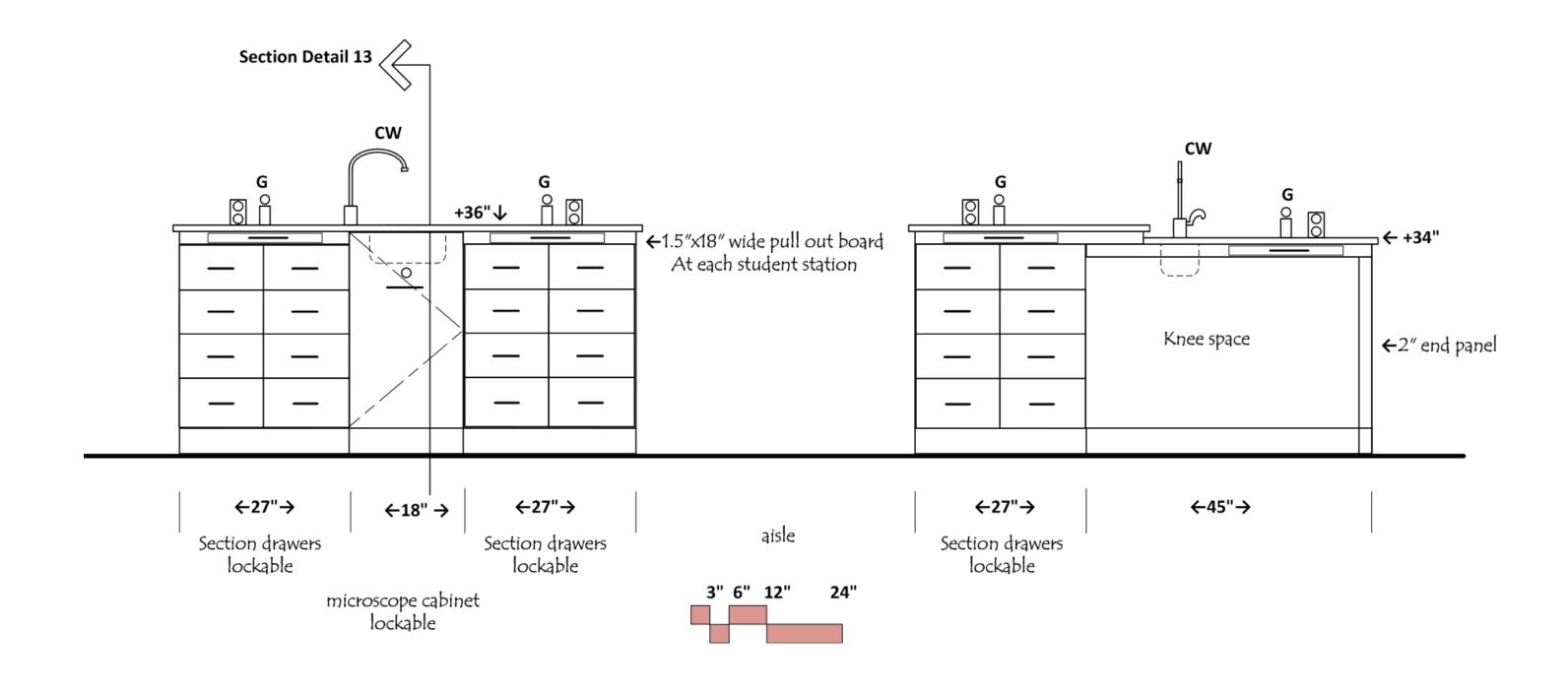
ELEVATION VMLT/Microbiology lab



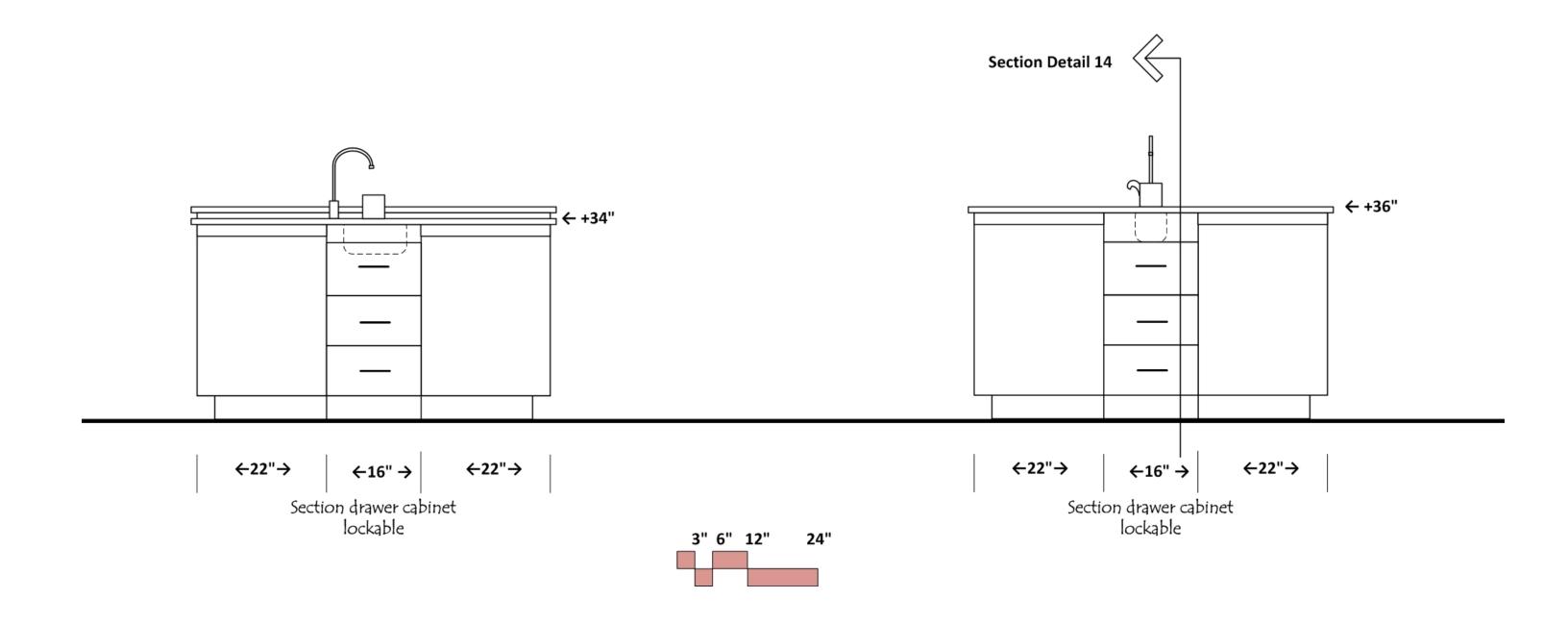
ELEVATION W MLT/Microbiology lab



ELEVATION XMLT/Microbiology lab

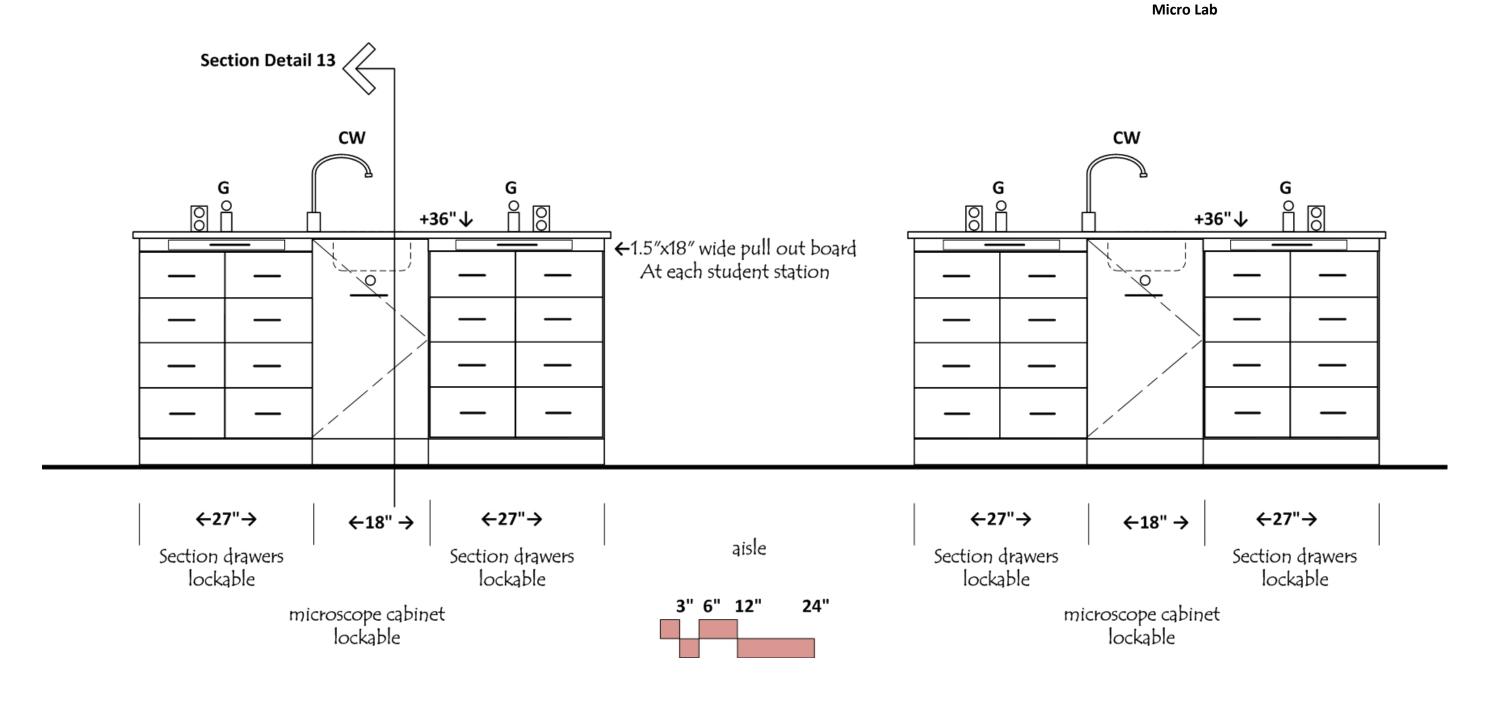


ELEVATION Y MLT/Microbiology lab

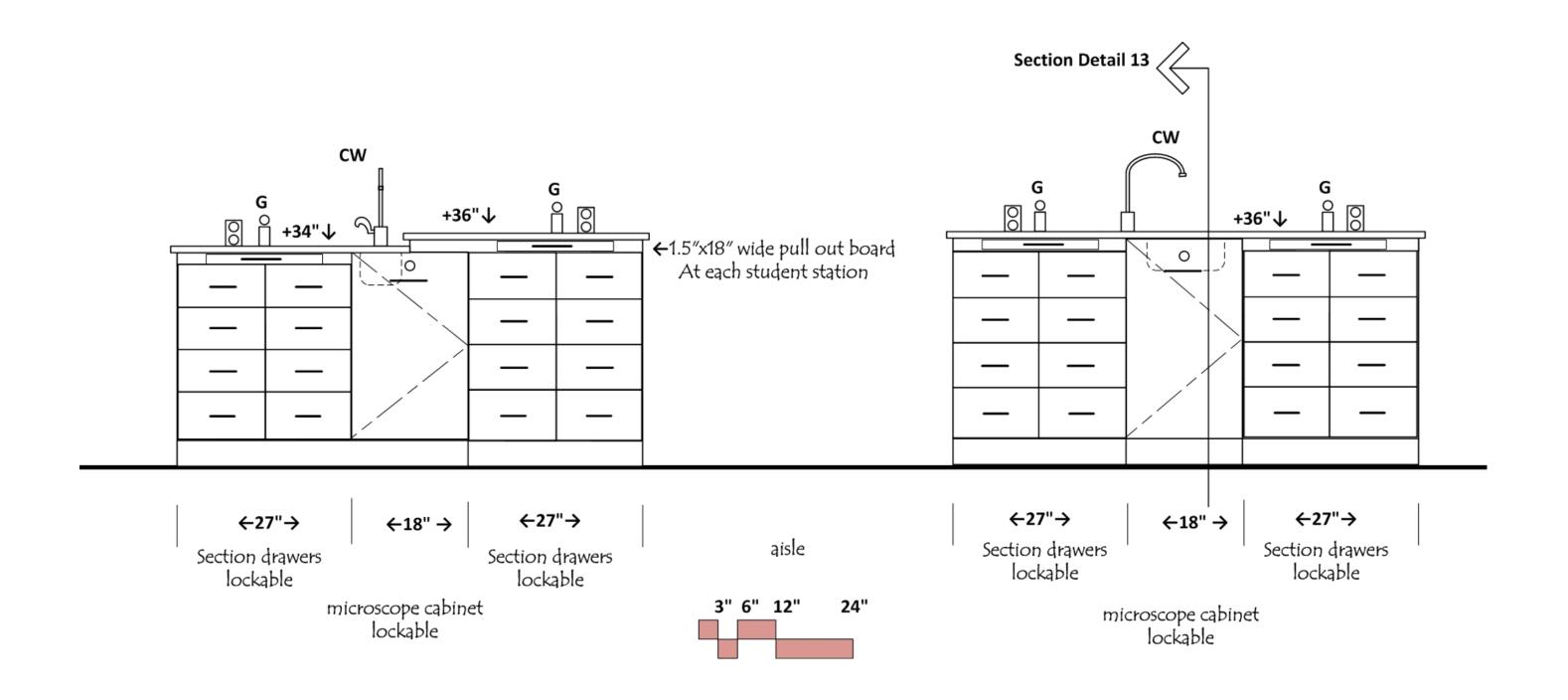


ELEVATION BA MLT/Microbiology lab

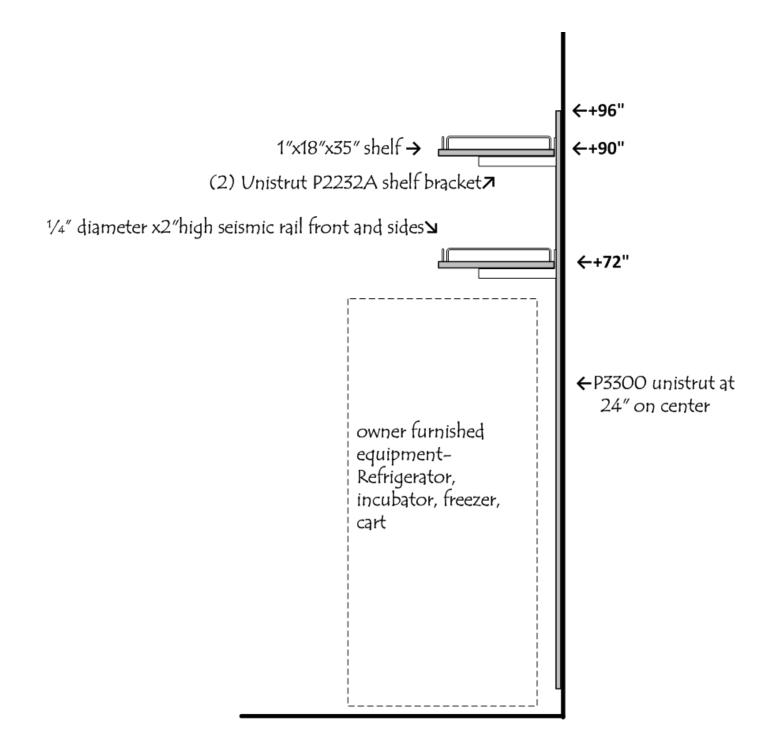
38 section drawers at each of 6 non accessible islands; 30 section drawers at each of 2 accessible islands; (38 x 6) + (2x30) = 288 section drawers total for

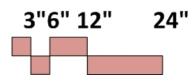


ELEVATION BB MLT/Microbiology lab

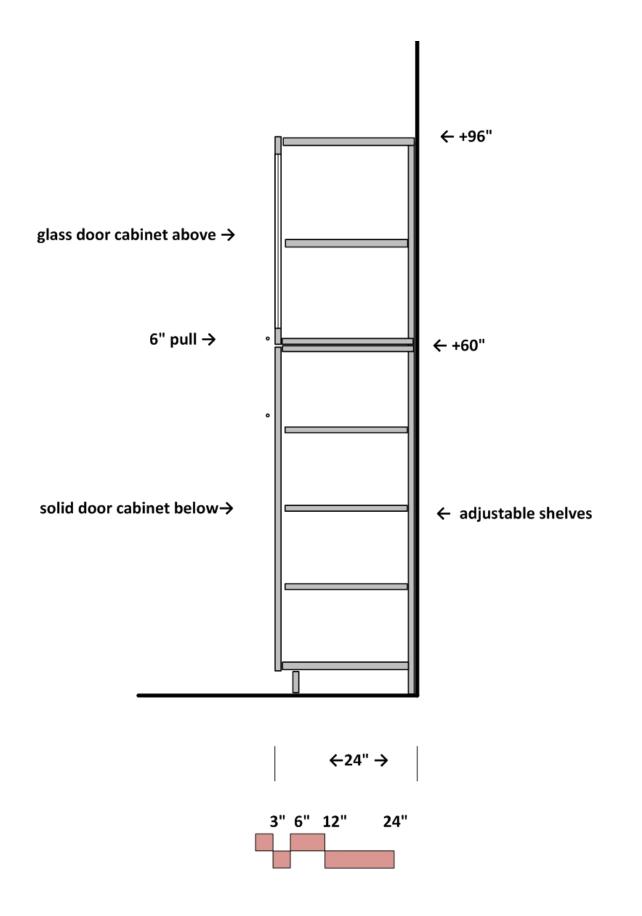


Equipment Space

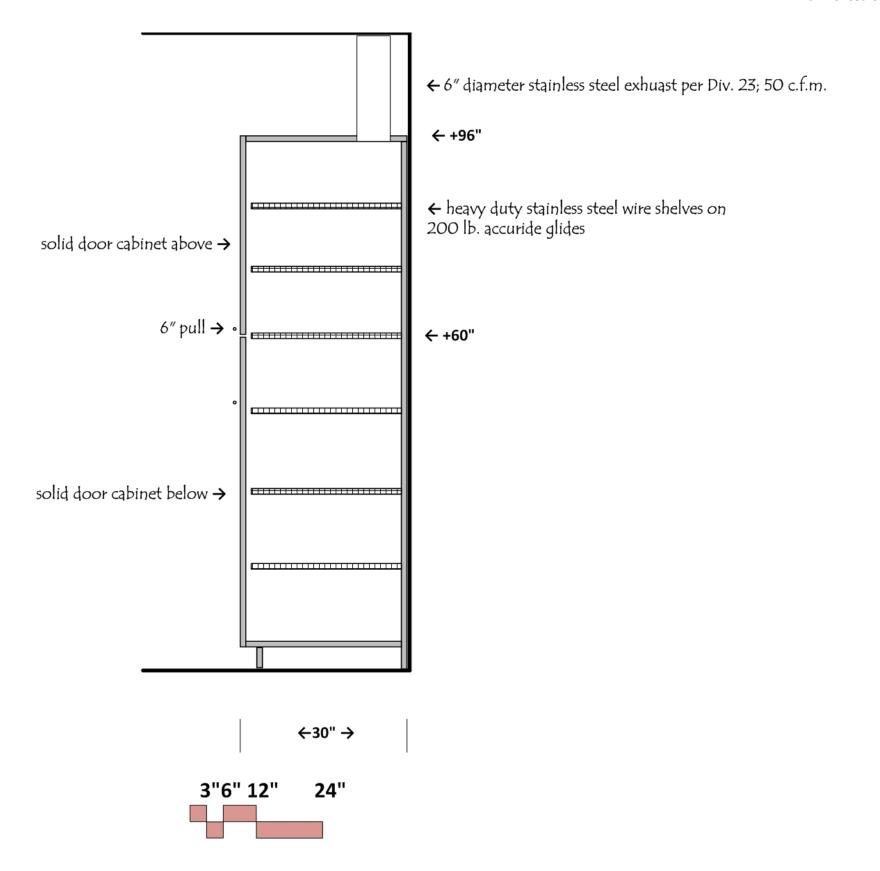




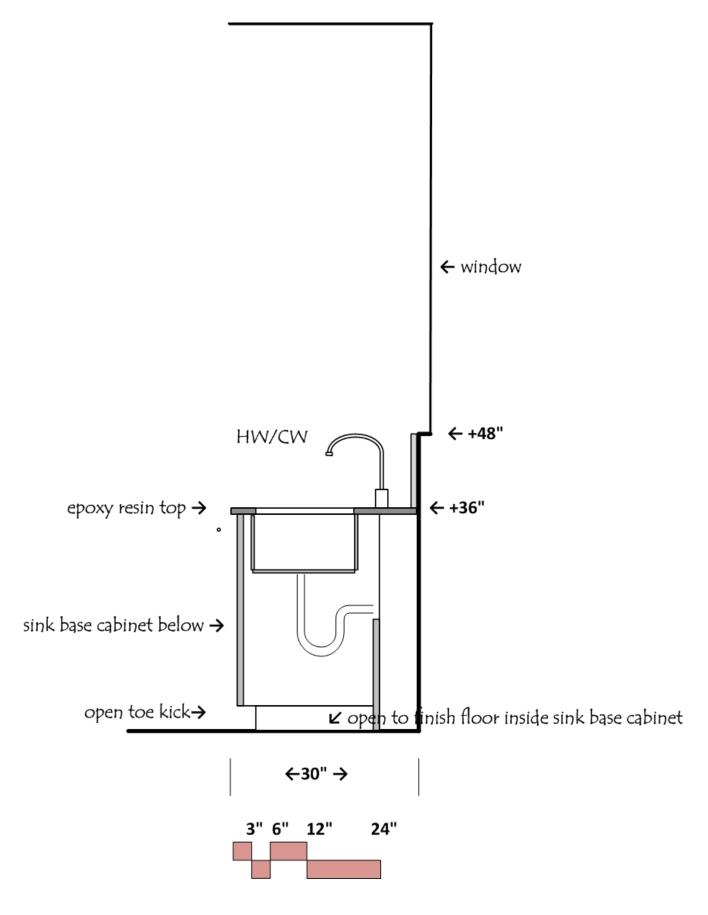
Tall Storage Cabinet



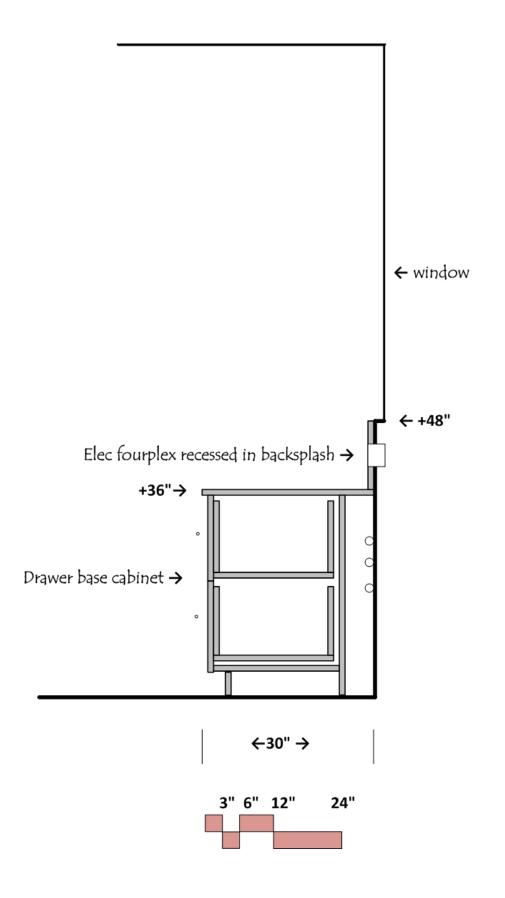
Tall vented cabinet



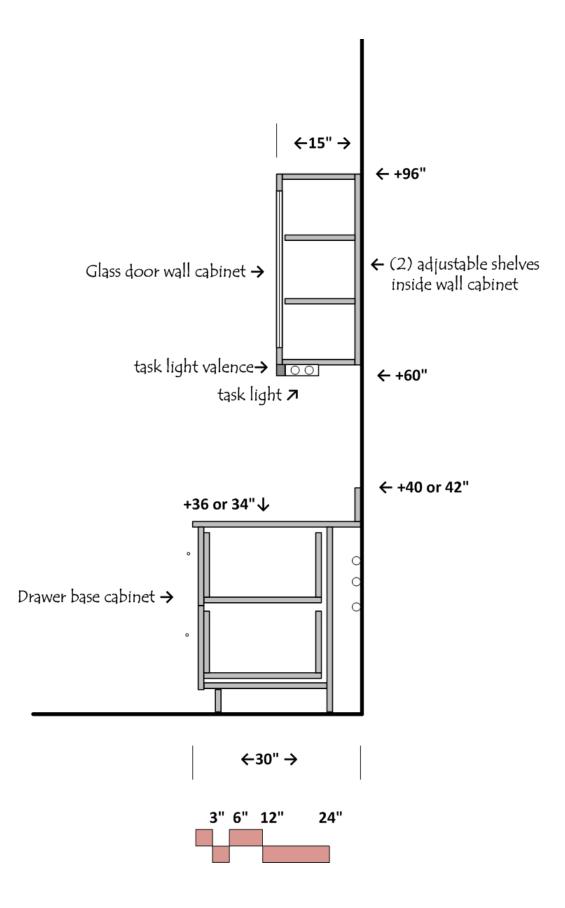
wall bench at window with sink



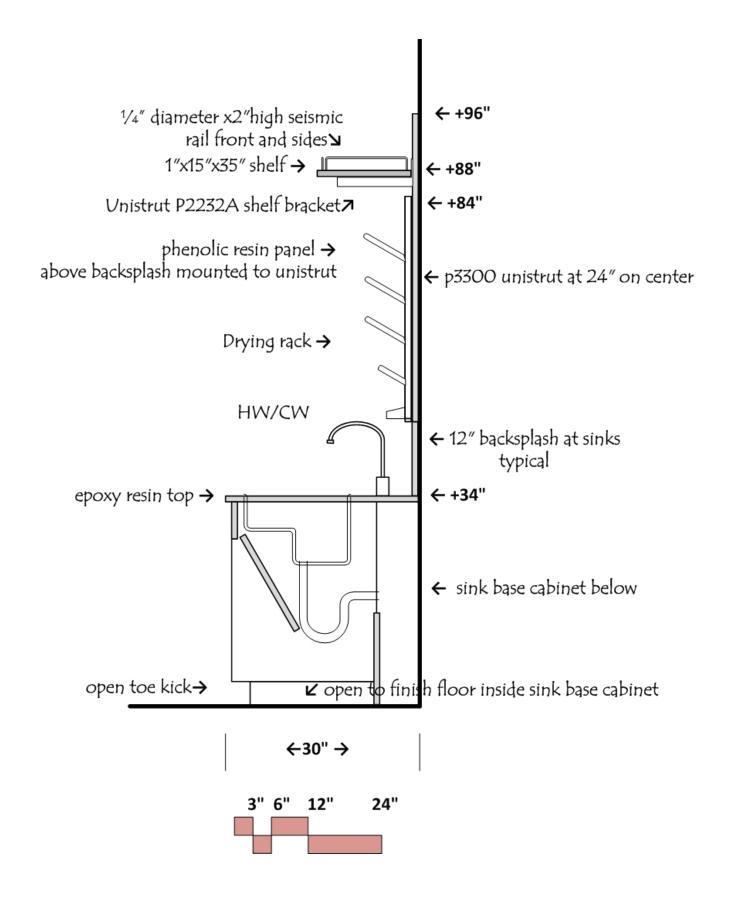
wall bench at window with base cabinet



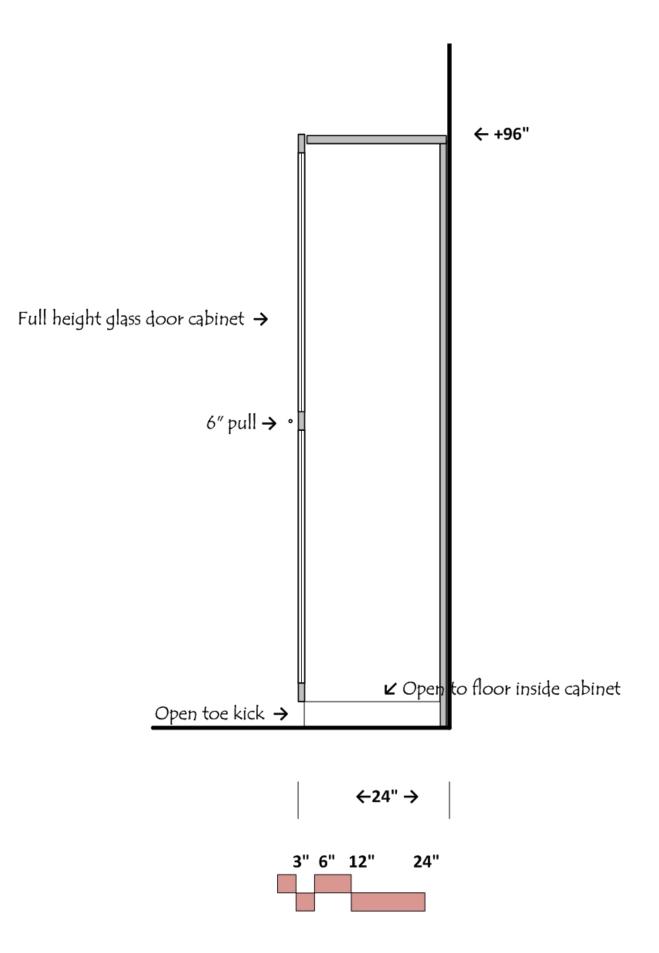
wall bench with cabinet above and below

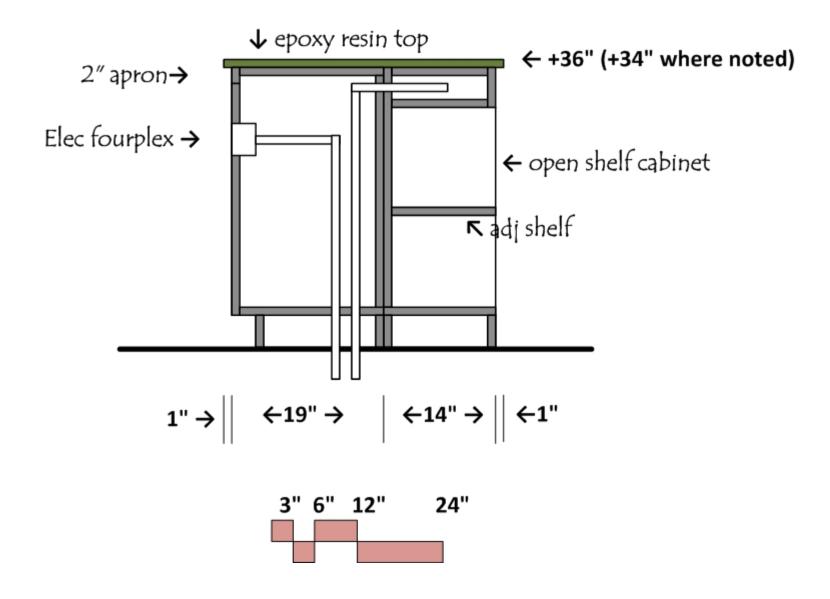


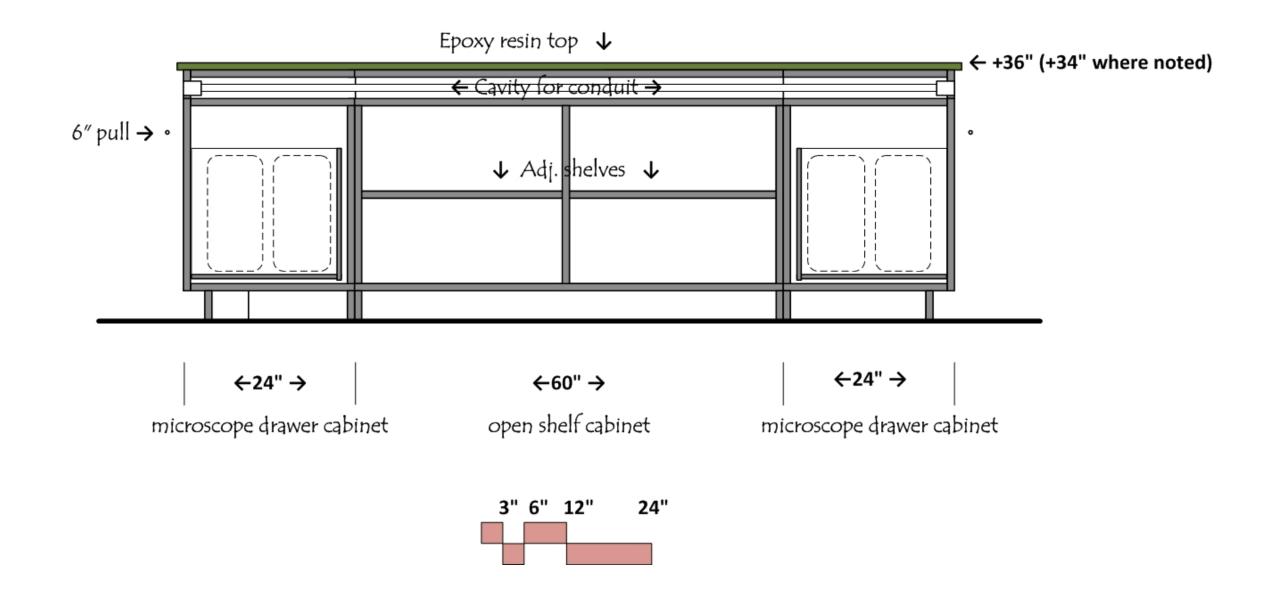
Wall bench with accessible sink

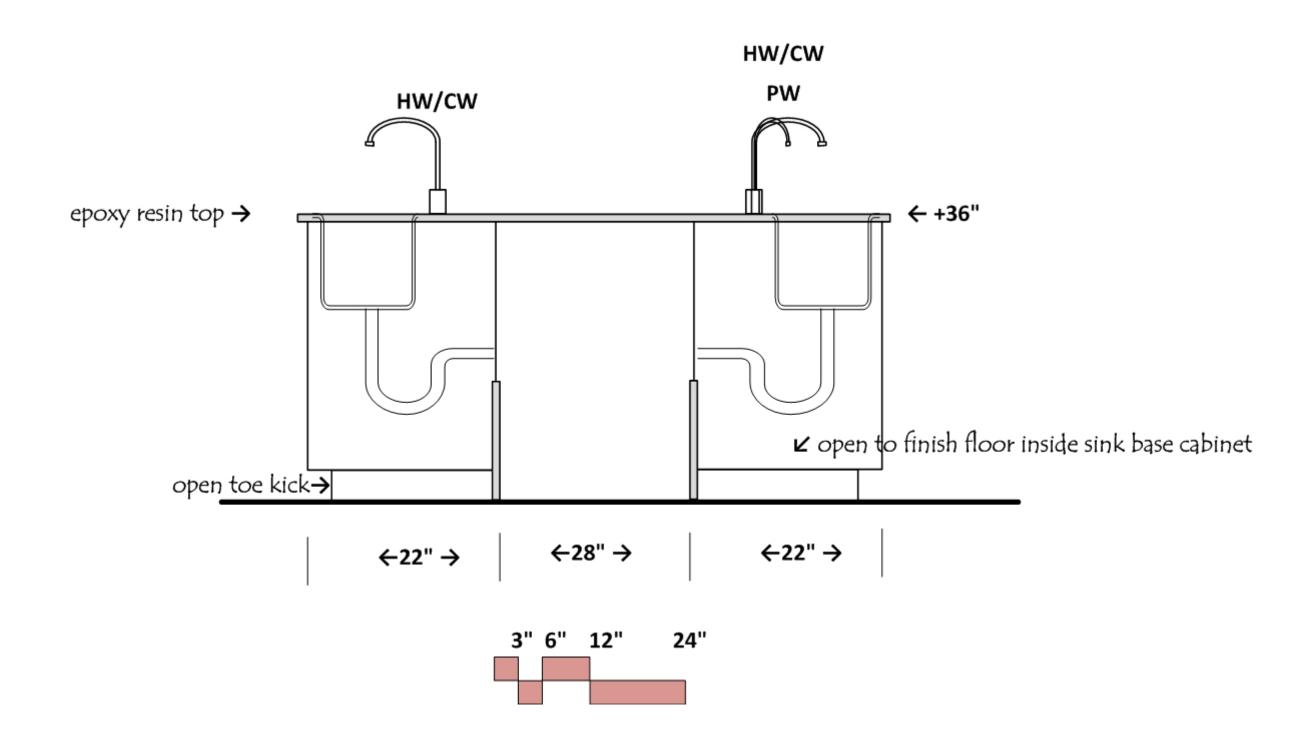


Skeleton cabinet



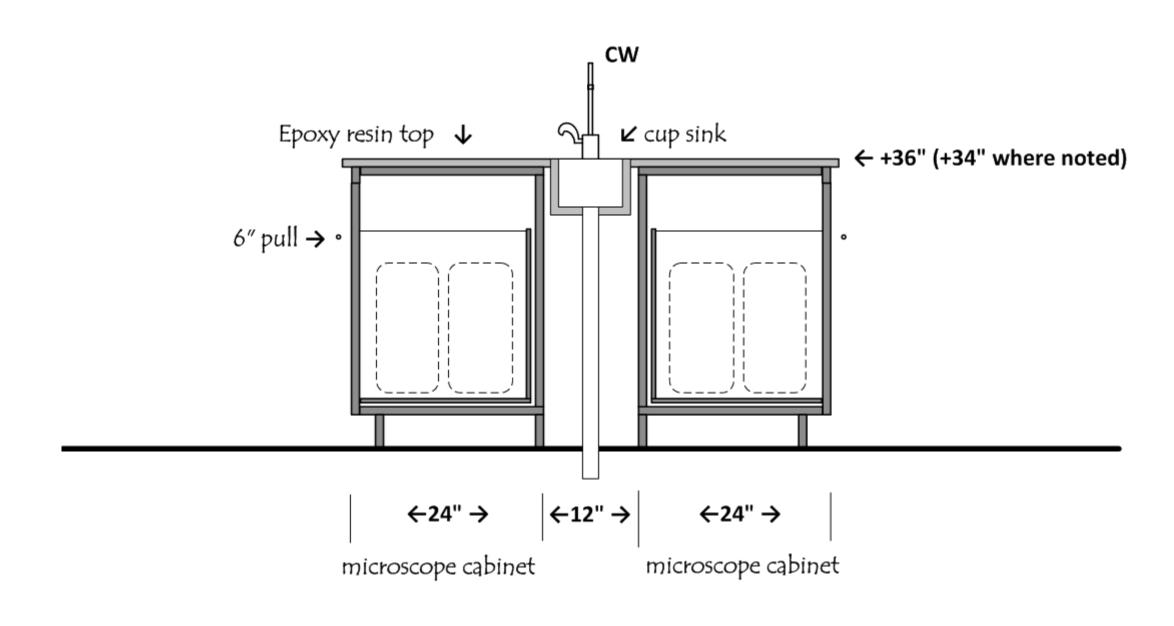


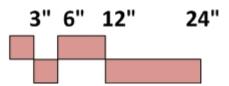


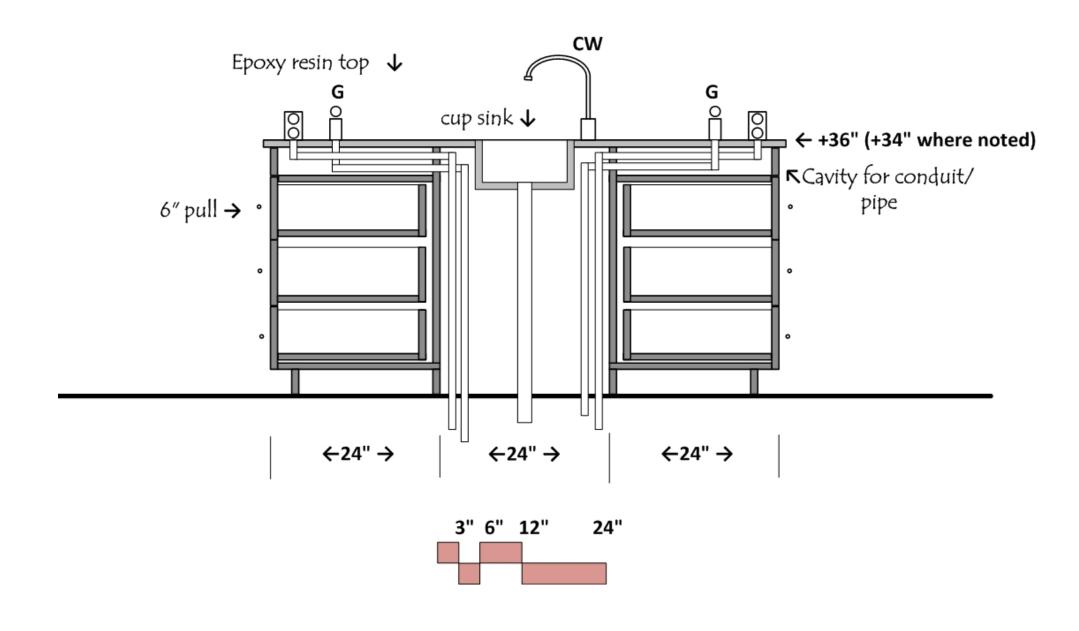


SECTION DETAIL 12

not used

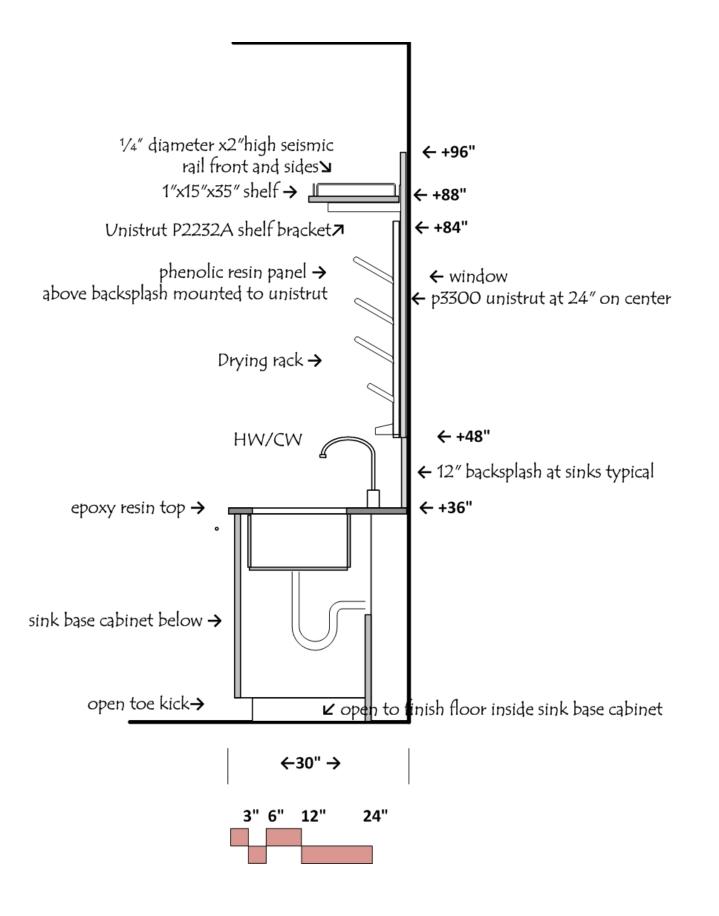






SECTION DETAIL 15

wall bench with sink



FUME HOOD CUT SHEET

All fume hoods VAV

ELECTRICAL

Ordering Information & Dimensional Data

Protector® ClassMate™ Laboratory Hoods

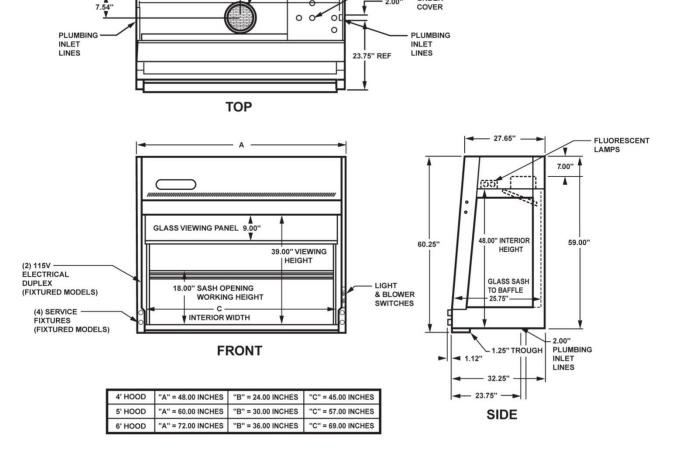
Nominal	Total Exhaust CFM and Static Pressure at 18" sash opening height (60% open)*									
Width	100 fpm	S.P.	80 fpm	S.P.	60 fpm	S.P.				
4 Feet	570	0.24"	460	0.16"	340	0.09"				
5 Feet	730	0.39"	590	0.26"	440	0.14"				
6 Feet	890	0.51"	710	0.33"	540	0.19"				

*Contact Labconco for other sash opening height data.

Nominal	Catalog	Fluorescent	Service	Electrical	Shipping
Width	Number	Lamps	Fixtures	Duplexes	Weight lbs./kg
4 Feet	6970400	2 ea. 30 watt	None	None	400/181
4 Feet	6970401	2 ea. 30 watt	4	2	400/181
5 Feet	6970500	2 ea. 40 watt	None	None	460/209
5 Feet	6970501	2 ea. 40 watt	4	2	460/209
6 Feet	6970600	2 ea. 40 watt	None	None	550/249
6 Feet	6970601	2 ea. 40 watt	4	2	550/249

8.625" ID EXHAUST

COLLAR WITH TISSUE SCREEN



Ordering Information

Protector® ClassMate™ Laboratory Hoods



All models feature:

- · By-pass airflow design
- Pivoting air foil with Clean-Sweep airflow slots
- Low profile spill trough that requires no cabinet overhang
- Dry-powder, glacier white epoxy-coated steel and aluminum frame
- Clear, 0.25" thick, tempered safety glass sides, back and baffle, all removable for cleaning
- 5° angled, tempered safety glass, 0.25" thick viewing window and 0.1875" thick sash with anti-racking shaft that provides 39" high visibility. Sash rises from closed to 18" high at the sash stop and 29" full open.
- Pre-wired fluorescent lighting and ADA-compliant light and blower switches for 115 volt, 60 Hz, 15 amp operation
- Interior working depth of 26" and height of 48"

- Tissue screen located directly below exhaust outlet
- Interior cover plates
- 8" nominal diameter epoxy-coated steel belled exhaust connection
- ETL and ETL-C listed

All models conform to the following regulations and standards:

- SEFA—#1 (Laboratory Fume Hoods)
- NFPA—#45 (Fire Protection for Laboratories Using Chemicals 2000) section 6-1 through 6-14
- ASTM-E-84—Surface Burning Characteristics of Building Materials
- ASHRAE—110-95 (Method of Testing Performance of Laboratory Fume Hoods)
- ANSI—Standard Z9.5 (Laboratory Ventilation)
- ADA—Americans with Disabilities Act
- UL 3101-1 (Electrical Safety of Test, Measurement and Laboratory Use Equipment)

Fixtured models feature:

- Four pre-plumbed, ADA-compliant service fixtures with forged brass valves: three with 0.25" copper tubing and one with 0.25" brass tubing for use with gas
- Two pre-wired 115 volt, 15 amp electrical duplex receptacles

All models require (not included):

- Remote blower. Contact Labconco for recommendations.
- Ductwork. Contact Labconco for recommendations.
- Work Surface. See page 8.
- Base cabinet. Contact Labconco for ordering information.

Optional accessories (see page 8):

- · Distillation Grid Kits.
- · Rear Finish Panels.

Contact Labconco at **800-821-5525** or **816-333-8811** for blower sizing assistance.

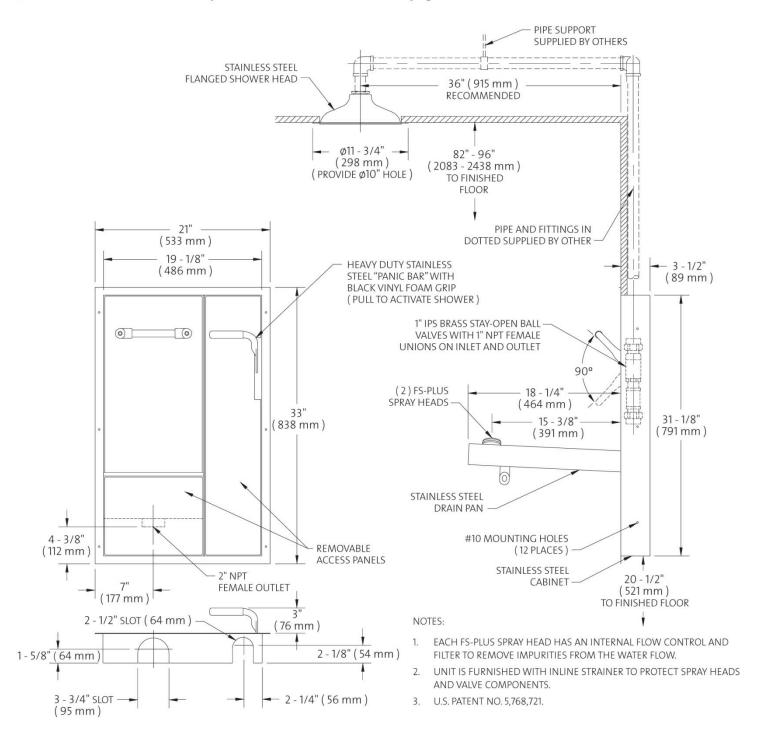


Reccessed Laboratory Units

SAFETY SHOWER/EYEWASH CUT SHEET

Requires drain connection at eyewash Provide floor drain below shower

- **SSBF2160** Recessed Safety Station with Drain Pan, Stainless Steel Shower Head
- O SSBF2162 Recessed Safety Station with Drain Pan and Daylight Drain, Stainless Steel Shower Head



HOT/COLD WATER FAUCET CUT SHEET

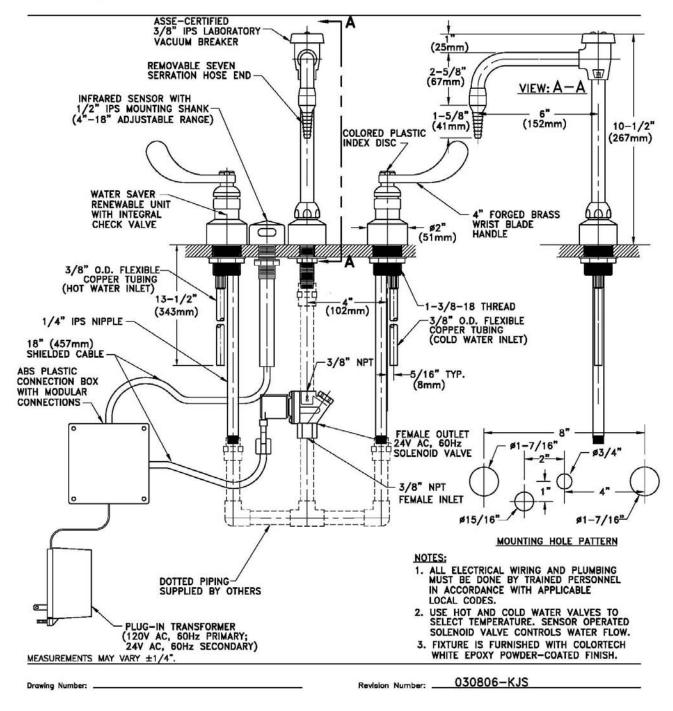


701 West Erie Street Phone 312 666 5500 Chicago, Illinois 60610 Fax 312 666 8597

Laboratory Service Fixtures by WaterSaver Faucet Co.

CT4554VB-BH

DECK MOUNTED SENSOR OPERATED AUTOMATIC MIXING FAUCET WITH 6" RIGID VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES. AND MANUALLY OPERATED MIXING VALVES



requires 120v outlet below each sink

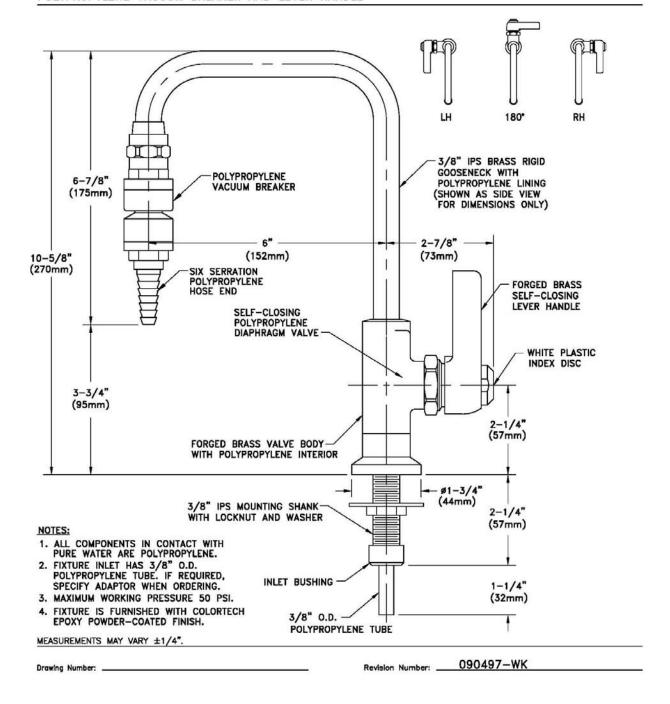
<u>COLORTECH</u>

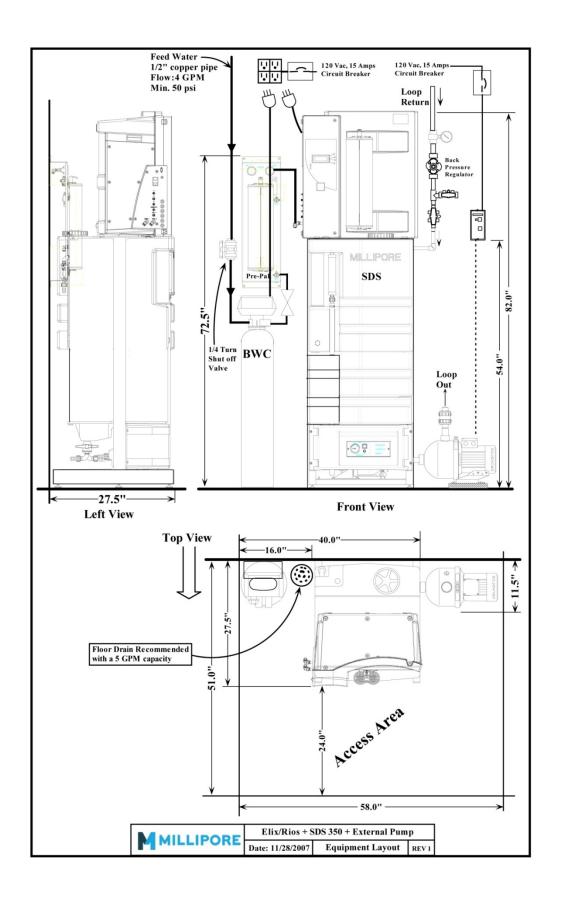
701 West Erie Street Phone 312 666 5500 Chicago, Illinois 60610 Fax 312 666 8597

Laboratory Service Fixtures by WaterSaver Faucet Co.

CT7853SC-7110-LE

DECK MOUNTED FIXTURE FOR DISTILLED, DEIONIZED AND ULTRA-PURE WATER WITH ALL-POLYPROPYLENE INTERIOR LINING, 6" RIGID GOOSENECK, SELF-CLOSING OPERATION, POLYPROPYLENE VACUUM BREAKER AND LEVER HANDLE





PURE WATER SYSTEM CUT SHEET

Requires space in mechanical/plumbing room

Provide 92 gallon storage tank with unit

Div 22 to provide unpigmented polypropylene piping on recirculating loop from pure water unit to lab sinks with pure water and glassware washers with pure water rinse cycles



PRODUCT DIMENSIONS

Standard DropIn® Sinks

				Dimensions (in)						
Sink No.		Outlet	Wgt (lb)	- 1	nside Bow	d	Outlet Location			
	140.		(10)	Length	Width	Depth	X	Y		
	D01C	Center	9	9.0	6.0	5.8	4.5	3.0		
	D03C	Center	16	12.0	8.0	5.8	6.0	4.0		
5	A05	Corner	18	14.0	10.0	5.0	3.5	3.5		
	D05	Corner	22	14.0	10.0	6.2	3.5	3.5		
	D05C	Center	24	14.0	10.0	6.2	7.0	5.0		
	D10	End	20	16.0	8.0	6.8	4.5	4.0		
	D10C	Center	22	16.0	8.0	6.8	8.0	4.0		
	D15	Corner	30	16.0	12.0	8.0	3.5	3.5		
	D15C	Center	31	16.0	12.0	8.0	8.0	6.0		
	D19	Corner	42	16.0	16.0	9.6	3.5	3.5		
	D20	Corner	32	16.0	16.0	7.5	3.5	3.5		
	D22C	Center	30	18.0	6.5	6.8	9.0	3.3		
	D24(C)	D24(C)	Center	30	18.0	14.0	10.5	9.0	6.8	
5	A25	Corner	35	18.0	15.0	5.0	3.5	3.5		
	D25	Corner	39	18.0	15.0	7.9	3.5	3.5		
	D30	Corner	53	18.0	15.0	11.0	3.5	3.5		
	D30C	Center	50	18.0	15.0	10.8	9.0	7.5		
	D33E	End	59	21.0	17.0	9.8	4.5	8.5		
	D45	Corner	64	21.5	15.5	11.0	3.5	3.5		
	D50C Center D52 Corner		48	24.0	16.0	8.0	12.0	8.0		
			77	24.0	18.0	11.0	3.5	3.5		
5	A55	Corner	47	25.0	15.0	4.8	3.5	3.5		
	D55	Corner	61	25.0	15.0	10.0	3.5	3.5		
	D59	Corner	61	28.0	15.0	11.8	3.5	3.5		
	DRS12 Center		18	12.0	Round	7.8	Cer	nter		

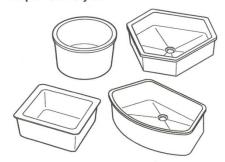
Special Order DropIn® Sinks

				Dimensions (in)					
1	Sink No.	Outlet Wgt (lb)			Inside Bow		Outlet Location		
1	NO.		(10)	Length	Width	Depth	X	Y	
T	D06*	Center	34	12.0	12.0	12.0	6.0	6.0	
	A07*	Corner	24	14.0	14.0	5.0	3.5	3.5	
	D08*	Corner	25	15.0	8.0	6.0	3.5	3.5	
	D09*	Corner	25	15.0	8.0	10.8	3.5	3.5	
	D21*	Corner	58	16.0	16.0	15.0	3.5	3.5	
	A26*	Corner	39	18.0	15.0	5/11	4.5	5.5	
	D32	Corner	49	18.0	15.0	15.8	3.5	3.5	
	D51*	Corner	60	24.0	16.0	9.6	3.5	3.5	
	D54*	Corner	45	25.0	15.0	8.0	3.5	3.5	
	D57*	Corner	71	25.0	15.0	13.6	3.5	3.5	
I	D58*	Corner	79	25.0	15.0	17.8	3.5	3.5	
	D61	End	94	30.0	16.0	17.8	4.5	7.5	
	D65C*	Center	98	35.5	19.5	9.8	17.8	9.8	
	D68**	End	70	30.0	16.0	10.0	4.75	8.0	
	D70C*	Center	95	24.0	16.0	15.5	8.0	12.0	
I	D100**	D100** Center		22.5	Hexagon	5.0	Cei	nter	
	D200**	End	64	30.9	Hexagon	7.0	15.5	8.0	
	DRS10*	Center	14	10.0	Round	7.8	Cei	nter	
1	DHC20*	End	82	30.0	Hexagon	7.0	Cei	enter	
	D99*	End	56	32.0	Semi-Circle	10.0	11.5	4.5	

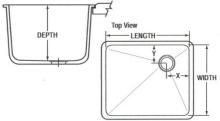
All sinks are available at both plants unless they are Special Order Sinks, available as noted:

All Dimensions are nominal. Exterior dimensions vary by MFG location. Cutsheets available upon request.

DropIn® Sink Styles

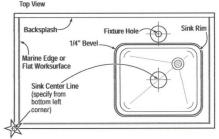


Dimensions Key

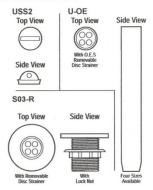


Installation Detail

Top View



Outlets & Accessories



■ WWW.DURCON.COM

206 Allison Drive • Taylor, TX 76574 • Phone: 512.595.8000 • Fax: 512.595.8400 • E-mail: sales@durcon.com

SINK CUT SHEET

Accessible sink:

A26: 18"Lx15"Wx5/11"D

located at all accessible sink cabinet locations

Anatomy Lab Sink:

D61: 30"Lx16"Wx17.8"D

Biology Cup Sink:

DO3C: 12"Lx8"Wx5.8"D

Biology Perimeter Sink: D59: 28"Lx15"Wx11.8"D

Chemistry Student Island Sink:

D06: 12"Lx12"Wx12"D

^{*} Available only from Taylor, TX, plant (colors: Black Onyx, Gray, Graphite, Tan, Forest Green and Steel Blue).

** Available only from Canton, MI, plant (colors: Black Onyx, Gray and Alpine White)

ADA compliant sinks are designated by this symbol.

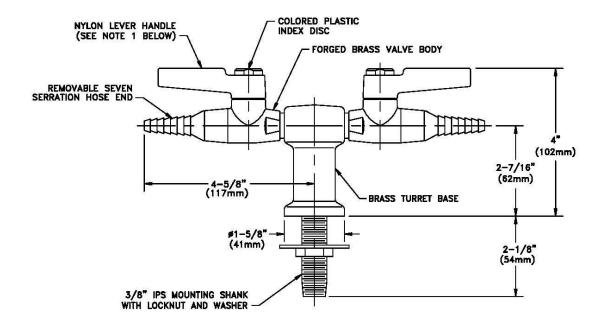
GAS/VACUUM VALVE CUT SHEET



701 West Erie Street Phone 312 666 5500 Chicago, Illinois 6 8610 Fax 312 666 8597

Laboratory Service Fixtures by WaterSaver Faucet Co.

DECK MOUNTED TURRET BASE WITH TWO LABORATORY BALL VALVES AT 180° AND MOUNTING SHANK



NOTES:

- NOTES:

 1. VALVE IS FURNISHED WITH A BLACK NYLON LEVER HANDLE AS STANDARD. A COLORED NYLON HANDLE AND A CHROME PLATED FORGED BRASS HANDLE ARE ALSO AVAILABLE.

 2. VALVE IS FACTORY ASSEMBLED AND TESTED AT 125 PSI. MAXIMUM WORKING PRESSURE IS 75 PSI.

 3. VALVE IS CERTIFIED FOR GAS SERVICE BY CANADIAN STANDARDS ASSOCIATION UNDER STANDARD ANSI Z21.15—1997/CGA9.1—M97.

 4. FIXTURE IS FURNISHED WITH COLORTECH

WITH COLORTECH D FINISH.

082406-SJP

4. FIXTURE IS FURNISHED	MEASUREMENTS MAY VARY ±1/4".	WHITE POWDER-COATE	D

SteamScrubber® Laboratory Glassware Washers

SPECIFICATIONS & ORDERING INFORMATION



SteamScrubber Laboratory Glassware Washer 4400330 is shown with 48-Pin Insert 4591601, Petri Dish Insert 4589701 Bulk Tube Insert 4542100, Utensil Holder 4542500 and BOD Bottle Insert 4589201.





All models feature:

- Upper and lower standard open racks of Type 304 stainless steel
- LCD information center, Display button, Run/Cancel button, scroll buttons and selection buttons to program and monitor cycles
- Pump to recirculate 96 gal/min (363 liters) when operated on 115 Volts, 60 Hz and 230 Volts, 50 Hz and 112 gal/min (424 liters/ min) on 230 Volts, 60 Hz
- Drain pump to evacuate over 7 gal/min (26 liters/min)
- Purified water pump to bring non-pressurized or pressurized purified water into the tank for up to six pure water rinses
- Steam generator that produces hot vapor before the WASH 2 cycle (RINSE ONLY and PLASTIC programs excluded)
- Aluminum-backed insulation and fiberglass blanket for thermal and sound insulation
- Operation at 58 decibels
- · Manual-fill detergent dispenser for powder or liquid detergent
- · Manual-fill rinse aid solution dispenser
- Forced air drying programmable up to 99 minutes and from 38-70°C (100-158° F)
- Seven factory-set cycle programs: RINSE ONLY, PLASTIC, GLASS. GLASS PLUS, SCIENCE, SCIENCE PLUS, and DRY ONLY. All 208/230 Volt models have three additional programs for a total of ten: INTENSE, INTENSE PLUS and EXTREME.
- Two user-set cycle programs
- Alarms with display for HOT GLASS, PLEASE WAIT, WATER LOW. WATER HIGH, OVERFLOW, LIQ DETER, RINSE AID DRAIN FAIL and LOW TEMP. Audible alarms self cancel after one minute.
- User-set delayed start (up to 8 hours)

- Type 304 stainless steel top, door, tank, upper, middle and lower wash arms. Freestanding models also have stainless steel exterior sides and top.
- One-piece, stainless steel, fine mesh particle drain filter
- Four leveling feet
- 3/8" Female NPT inlet fitting for hot tap water connection
- Factory-installed drain hose and band clamp
- Two year warranty on parts and labor
- Made in the U.S.A.
- IQ/OQ available. Visit www.labconco.com or call 800-821-5525.

All models conform to:

- UL 3101-1/61010-1
- CAN/CSA C22.2 No. 1010-1
- CE Conformity Marking (208/230 Volt models only)

All models require:

- Minimum inlet water temperature 49° C (120° F)
- Recommended inlet water temperature 60° C (140° F)
- Minimum purified water pressure 0 psi
- Water consumption per fill 3.4 gallons (13 liters)
- Hot tap water pressure at the washer 20-120 psi (138-827 KPa)
- Hot tap water flow rate 1.25 gallons (4.7 liters) per minute
- 3/8" OD copper tubing for connection to the water inlet valve
- Purified water with supply piping minimum 3/8" ID to permit at least 0.9 gallon (3.4 liters) per minute flow

Options include:

- Freestanding and undercounter styles
- \bullet Water temperature to 82° C (180° F) on 115 Volt models and 93° C (199° F) on 230 Volt models
- Clear tempered safety glass viewing window and 25-watt interior light that illuminates when door is latched

Optional accessories and companion products on pages 18 - 22 include:

- Base Stand
- Upper and Lower Spindle Racks
- Baskets and Inserts
- Freestanding-to-Mobile Conversion Kits
- Drain Water Cooling Kit
- LabSolutions Detergents and Rinse
- ScrubberMate Cart, Glassware Carts and Carboy Caddy
- WaterPro RO Stations and accessories

Catalog #	Style	Electrical Requirements	Maximum Internal Water Temperature	Viewing Window and Light	Overall Dimensions with Door Closed	Shipping Weight
4400320	Undercounter	115 Volts, 60 Hz, 16 Amps	82° C (180° F)	No	24.1" w x 27.4" d x 34.1-36.1" h	206 lbs. (93 kg)
4400321	Undercounter	208/230 Volts, 50/60 Hz, 12 Amps	93° C (199° F)	No	24.1" w x 27.4" d x 34.1-36.1" h	206 lbs. (93 kg)
4400330	Undercounter	115 Volts, 60 Hz, 16 Amps	82° C (180° F)	Yes	24.1" w x 27.4" d x 34.1-36.1" h	206 lbs. (93 kg)
4400331	Undercounter	208/230 Volts, 50/60 Hz, 12 Amps	93° C (199° F)	Yes	24.1" w x 27.4" d x 34.1-36.1" h	206 lbs. (93 kg)
4400420	Freestanding	115 Volts, 60 Hz, 16 Amps	82° C (180° F)	No	24.2" w x 27.5" d x 34.2-36.2" h	235 lbs. (107 kg)
4400421	Freestanding	208/230 Volts, 50/60 Hz, 12 Amps	93° C (199° F)	No	24.2" w x 27.5" d x 34.2-36.2" h	235 lbs. (107 kg)
4400430	Freestanding	115 Volts, 60 Hz, 16 Amps	82° C (180° F)	Yes	24.2" w x 27.5" d x 34.2-36.2" h	235 lbs. (107 kg)
4400431	Freestanding	208/230 Volts, 50/60 Hz, 12 Amps	93° C (199° F)	Yes	24.2" w x 27.5" d x 34.2-36.2" h	235 lbs. (107 kg)

Exclusive Labconco feature

UNDERCOUNTER WASHER CUT SHEET

Provide pure water for rinse cycle Model 4400331- 208v

SteamScrubber® Laboratory Glassware Washers

FEATURES & BENEFITS

For washing and drying primarily beakers and other wide-mouth or specialized glassware.

Steam generator. Produces hot vapor to penetrate and soften

dried contaminants for more effective cleaning.

User-set delayed start

(up to 8 hours) may be

programmed so that the

washer operates during

off-peak hours when

electricity may be less

Attractive and durable

door and tank, Free-

standing models also

have stainless steel sides

expensive and more

plentiful.

and top.

system. Hot air is blown into the tank to dry glassware. No separate dryer or oven is needed.

may be programmed. pump draws from a ized source for final rinses

Type 304 stainless steel

Detergent dispenser for powder or liquid detergent. Releases a manually premeasured amount ensuring clean labware.

Quiet, energy-efficient operation at 58 decibels. Aluminum-backed, sound-deadening insulation and fiberglass blanket absorb noise and optimize internal tank temperature to conserve energy

Forced air drying Dual pumps, one for washing and one for draining, reduce the potential for cross contamination.

Up to 6 pure water rinses A built-in purified water storage tank or pressur-

360° rotating upper, middle and lower wash arms distribute water and detergent.

Powerful pump recirculates water at a high rate to dislodge dried contaminants for thorough cleaning. Water recirculates at 96 gal/min (363 liters/min) on 115 Volt,

60 Hz and 230 Volt, 50 Hz models and 112 gal/ min (424 liters/min) on 230 Volt, 60 Hz models.

Versatile rack options.

The standard open racks are interchangeable with optional upper and lower spindle racks. Additional racks are sold separately. See page 18.

Full two year warranty. s provided against defects in materials and workmanship.

INCLUDES Upper and lower stainless steel standard open racks.

Accommodate a variety of accessory inserts holding the broadest range of glassware. Inserts are sold separately. See pages 18

Sanitizing high heat.

Water temperature reaches 93° C (199° F) on 230 Volt models to sanitize glassware and for enhanced washing, rinsing and faster drying.



display on the LCD to alert the user to abnormal or unsafe events such as HOT GLASS and OVERFLOW.

Alarms sound and/or

Optional clear tempered safety glass viewing window with 25-watt interior light allows observation of the cycle in progress. Available standard on some models.

ETL-listed.
Washers carry the ETL mark signifying they are certified to UL Standard 3101-1/61010-1 and CAN/CSA C22.2 No. 1010 1

> CE Mark. Washers conform to the CE (European Community) requirements for electrical safety and electromagnetic compatibility.



Exclusive Labconco feature

AUTOCLAVE CUT SHEET

Electric Steam Generator



PROJECT: UNIVERSITY OF IOWA, IOWA CITY PBDB CONSTRUCTIONFACILITY **UI PROJECT NO. 0035301** PROJECT NO. 0728 IOWA CITY, IA 52242 **SECTION 11 53 19** PARA. 2.02B. STEAM STERILIZER **EQUIPMENT NO. 115319.12** CONSOLIDATED MODEL 2-SSR-3A-ADVPRO

Consolidated Sterilizers

Designed to Transform Your Laboratory

Small Lab Series Steam Sterilizers General Specifications

General Specification

Steam Sterilizer, Radial-Arm Door(s), Hinged, Single Chamber, Double Wall

Consolidated Small Lab 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 from a stainless steel or nickel-clad steel vessel construction in a variety of sizes and programmable control options for pre-vacuum or gravity operation. Consolidated sterilizers offer a range of performance options to meet the most demanding applications in clinical, animal and life science, biotechnology, pharmaceutical, and commercial/industrial applications.

Model		Chamber Dimensions (w x h x f-b)	Volume (per chamber)
	SSR-2A	16" x 16" x 26" 40.6 x 40.6 x 66 cm	3.9 cu. ft. 109 liters
	SSR-3A	20" x 20" x 38" 50.8 x 50.8 x 96.5 cm	8.8 cu. ft. 249 liters
	SR-24A	24" x 24" x 36" 61 x 61 x 91.4 cm	12 cu. ft. 340 liters
	SR-24B	24" x 24" x 48" 61 x 61 x 122 cm	16 cu. ft. 453 liters
	SR-26A	26" x 26" x 39" 66 x 66 x 99 cm	15.25 cu. ft. 430 liters

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.

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. The radial-arm, solid-silicone door gasket is selected for durability; the gasket is easily replaced if required.

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

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. All cycles are easily managed and documented

Green and Environmentally Friendly.

Unique, new water-saving technologies reduce water consumption without compromising performance.



Consolidated Small Lab Series Sterilizers are available in single door, pass-thru and dual (tower) 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 PT-24A-ADVPRO shown with ADV-PRO programmable logic controller.





Featuring Green Technology for Energy Savings and Minimal Environmental Impact

OVERALL LENGTH DOOR SWING 0 OVERALL HEIGHT OVERALL WIDTH SERVICE CLEARANCE AREA FRONT VIEW SIDE VIEW **TOP VIEW** (CABINET UNITS) (CABINET UNITS) (CABINET UNITS) SWING 0 0 WALL OPENING HEIGHT WALL OPENING D WIDTH SERVICE CLEARANCE AREA* FRONT VIEW SIDE VIEW **TOP VIEW** (RECESSED UNITS) (RECESSED UNITS) (RECESSED UNITS) E Electrical D Drain W Water S Steam *Recommended service clearance is 18-24" both sides and back Notes Alternative controller mounting options are available at no Right side control housing, left side door hinge shown. Standard control location is opposite hinge. Opposite charge for installations into smaller wall openings. Contact mounting is available upon request. Consolidated to arrange a solution. • The control housing is shipped detached from the sterilizer to · Standard plumbing and utility access is primarily located on the allow passing through doorways, reducing overall same side as the door hinge. If location of plumbing is important pre-installation width by 10 3/8". When the sterilizer is to your installation contact Consolidated to arrange a solution. installed, the control housing and electrical connections are CAD Blocks are available for insertion into plan drawings. easily attached. **Table 1: Sterilizer Unit Dimensions** Chamber Dimensions 16" x 16" x 26" 20" x 20" x 38" 24" x 24" x 36" 24" x 24" x 48" 26" x 26" x 39" $(w \times h \times f-b)$ 40.6 x 40.6 x 66 cm .8 x 50.8 x 96.5 cm 61 x 61 x 91.4 cm 61 x 61 x 122 cm 66 x 66 x 99 cm 3.9 cu. ft Volume 109 liters 249 liters 340 liters 453 liters 433 liters 38.375" 48.375" 38.375" 46.375 46.375 Overall Width 117.8 cm 122.9 cm 97.5 cm 117.8 cm 97.5 cm Overall Height 180.3 cm 180.3 cm 180.3 cm 180.3 cm 180.3 cm 32.375" Overall Length 137.2 cm 106.7 cm 106.7 cm 113 cm 82.2 cm 40.375" 48.375" 50.375" Wall Opening Width 122.9 cm 122.9 cm 128 cm 102.6 cm 102.6 cm Wall Opening Height 182.9 cm 182.9 cm 182.9 cm 182.9 cm 182.9 cm 33.5 33.5" Door Swing 57.2 cm 90.2 cm 85.1 cm 85.1 cm Additional options may require a larger footprint.
 Alternative controller mounting options are available at no charge for installations into smaller wall openings. UME DATE CONSOLIDATED STERILIZER SYSTEMS
76 ASHFORD ST, BOSTON MA 02134 Contact Consolidated or your Consolidated Sales Represe SMALL STERILIZER ADV PB/PRO/PLUS 91015 SCALE: N/A WEIGHT: --- SHEET 1 OF 2

CORROSIVE CABINET CUT SHEET

Anatomy/Biology Prep External exhaust per Div. 23- 25 cfm per cabinet section



POLY ACID-CORROSIVE SAFETY STORAGE CABINET



EAGLE Poly Acid/Corrosive Safety Cabinet

Eagle's new non-metallic "Poly Acid Cabinets" are constructed of 100% polyethylene for excellent resistance to harmful acid vapors and spills, making these cabinets suitable for storing aggresive chemicals such as sulphuric, hydrochloric and nitric acids.

Independent upper and lower compartments allow for segregation of reactive chemicals. Includes two 3/8" threaded inserts on top sides for wall anchors. The base of the cabinet is flush to floor and sides. Bottom shelves remove for easy cleaning of sump areas. Available in blue, shown here, or white.

CRAP-44 Poly Acid Safety Cabinet

EAGLE Poly Acid/Corrosive Cabinet							
Model Capacity Door Specs Shelves Size (WxDxH) Weight							
CRA-P44	44 gal.	4 Manual Closing	8	35" x 22" x 65"	130 lbs.		
CRA-P44W 44 gal. 4 Manual Closing 8 35" x 22" x 65" 130 lbs.							

FLAMMABLE CABINET CUT SHEET

Chem/Micro Prep no external venting to be provided



EAGLE Model 4510 Safety Cabinet

Constructed of 18-gauge steel, sides, top, bottom, and doors are double-walled with a 1 1/2" air space between walls. Both vents, with 2" threaded fittings, have fire baffle and cap. Cabinets come in yellow high gloss powder finish with red warning, plus grounding attachment, 3-point key lock, and 2" raised, leakproof door sill. Each shelf is adjustable, supported by 4 brackets, and can support 350 pounds. Features 2 self-closing doors. FM approved.

SPECIFICATIONS

CAPACITY: 45 gallons SHELF DEPTH: 14.75" SHELVES: 2 DIMENSIONS: 43" x 18" x 65" WEIGHT: 353 lbs.

Model 4510 Safety Cabinet

FLAMMABLE CABINET CUT SHEET

Anatomy/Biology Prep Model 2310 no external venting to be provided



MODEL 1923/2310 SPACE SAVER SAFETY CABINET

EAGLE Model 1923/2310 Space Saver Safety Cabinet Only 23" wide, this cabinet features a 24 gallon capacity that will fit places a conventional cabinet can't - available in single door manual (Model 1923) and self closing (Model 2310) models.

Cabinets meet NFPA Code 30 and OSHA requirements.

SPECIFICATIONS

CAPACITY: 24 gallons SHELF DEPTH: 14.75" SHELVES: 3 DIMENSIONS: 23" x 18" x 65"

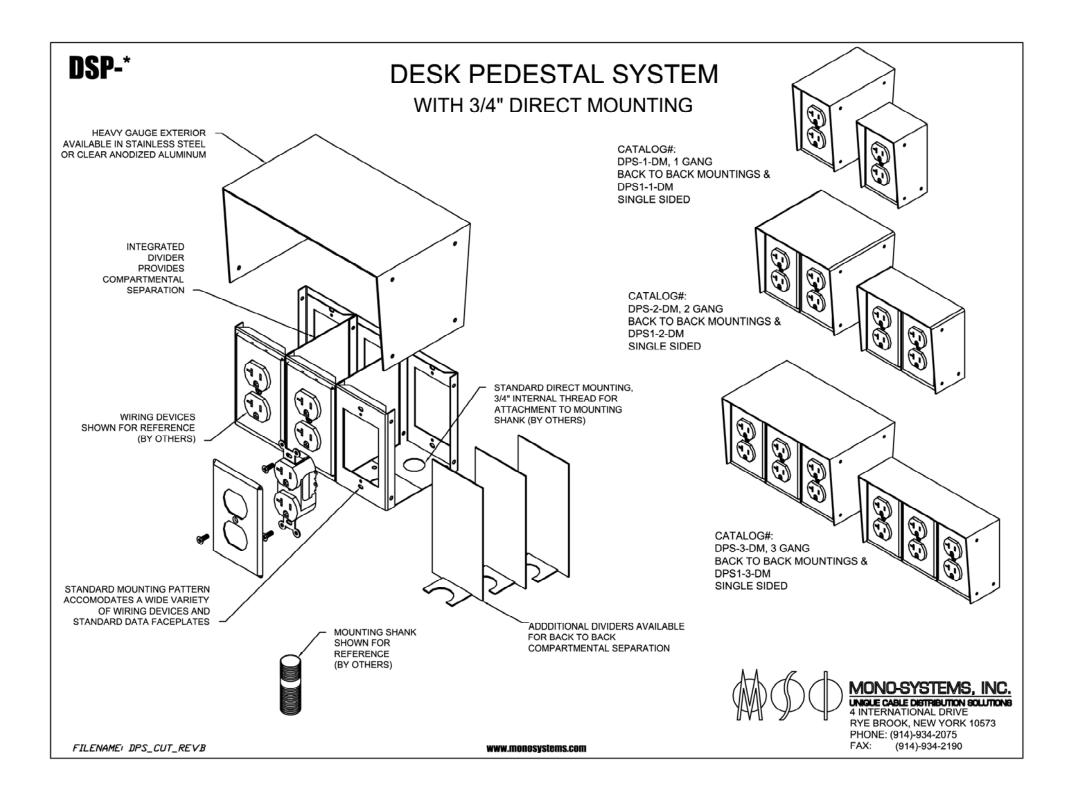
WEIGHT: 270 lbs.



Model 1923 Safety Cabinet

ELECTRICAL PEDESTAL CUT SHEET

Provided by Div 26- shown for reference only



Scotsman



F0522 – 500 lb Flake Ice Machine



Features

AutoAlert™ indicator lights constantly communicate about operating status and actually signal your staff when it's time to descale, sanitize and more - making upkeep practically foolproof.

Preventative maintenance is simplier than ever with easily-removed panels allowing clear access to internal components and a diagnostic code display insuring the right fix the first time. Reusable air filter is easily removable from the outside.

Flake ice is ideal for keeping salad bar fruits and veggies crisp and appealing and soft drink displays icy cold.

An optional advanced feature Smart-Board™ provides NAFEM data protocol and additional operational data that can be displayed on-screen or transmitted remotely, resulting in early alert and fast diagnosis of operating issues.

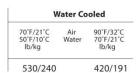
An optional Vari-Smart™ ultrasonic ice level control sensor allows you the flexibility to program ice levels, for up to 7 days, keeping just the right amount of freshly

Industry leading 3 year parts and labor warranty

Shown on B322S bin with optional KLP8S legs.

24 Hour Volume Production

А	ir Coole	ed
70°F/21°C 50°F/10°C lb/kg	Air Water	90°F/32°C 70°F/21°C lb/kg
450/205		320/145













Modular Bin Options

Dimensions W" x D" x H"	Application Capacity Ib/kg	AHRI Certified Bin Capacity Ib/kg	Finish	Ship Weight Ib/kg
22 x 34 x 44**	370/168	290/132	SS	140/64
30 x 34 x 31**	344/156	270/123	Poly	90/41
30 x 34 x 44**	536/244	420/191	Poly	110/50
30 x 34 x 44**	536/244	420/191	SS	150/68
42 x 34 x 44**	778/353	610/277	SS	185/84
	W" x D" x H" 22 x 34 x 44** 30 x 34 x 31** 30 x 34 x 44** 30 x 34 x 44**	Dimensions W"x D"x H" lb/kg 22 x 34 x 44** 370/168 30 x 34 x 31** 344/156 30 x 34 x 44** 536/244 30 x 34 x 44** 536/244	Dimensions W"x D"x H" Capacity Ib/kg Bin Capacity Ib/kg 22 x 34 x 44** 370/168 290/132 30 x 34 x 31** 344/156 270/123 30 x 34 x 44** 536/244 420/191 30 x 34 x 44** 536/244 420/191	Dimensions W"xD"xH" Capacity Ib/kg Bin Capacity Ib/kg Finish 22 x 34 x 44** 370/168 290/132 SS 30 x 34 x 31** 344/156 270/123 Poly 30 x 34 x 44** 536/244 420/191 Poly 30 x 34 x 44** 536/244 420/191 SS







Flake Ice

quickly than and produce

Cools more other ice forms. Ideal for seafood

Warranty

- 3 years parts and labor on all components.
- 5 years parts on the compressor.

Warranty valid in North, South & Central America.

Scotsman Ice Systems · 775 Corporate Woods Parkway · Vernon Hills, IL 60061 1-800-SCOTSMAN

Fax: 847-913-9844 E-mail: customer.relations@scotsman-ice.com

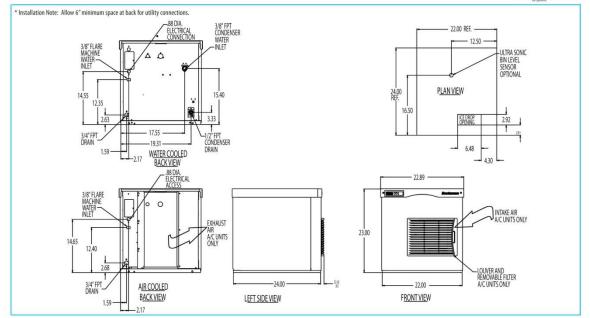
ICE MACHINE CUT SHEET

Owner furnished- shown for reference only **Anatomy/Biology Prep** Chem/MLT/Micro Prep



Revit drawings available at www.scotsman-ice.com





Specifications

Specification	Water Usage Gallons/100 lb (liters/45.4 kg)							
Model Number	Condenser Unit	Basic Electrical Volts/Hz/Phase	Max. Fuse Size (amps)	Circuit Wires	Min. Circuit Ampacity	Energy Consumption kWh/100 lb (45.4 kg) 90°F(32°C)/70°F(21°C)	Potable 90°F(32°C)/ 70°F(21°C)	Condenser 90°F(32°C)/ 70°F(21°C)
F0522A-1	Air	115/60/1	20	2	15.2	6.1	12.0/45.5	-
F0522W-1	Water	115/60/1	20	2	14.4	3.9	12.0/45.5	82/310.73

All Models

Dimensions (W x D x H):

Unit:	
	22.9" x 24" x 23"
	(58.2 x 61.0 x 58.4 cm)
Shipping	g Carton:
	25.5" x 27.5" x 28.5"
	(64.8 x 69.9 x 72.4 cm)
Shipping	g Weight:
	173 lb/78 kg
BTU per	hour:

5,000

R-404A

Refrigerant:

Model Number	Description
KVS	Vari-Smart™ Ice Level Control - Program ice bin levels to match ice needs.
KSBU	Smart-Board™ Advanced Control - Use additional operational data for fast diagnosis.
KSBU-N	Smart-Board™ Advanced Control with Network - Network capable.
KPAS	Prodigy Advanced Sustainability kit- Includes KVS and KSBU-N
Conteman recommends a	all ice machines have water filtration. See Scotsman Sanitation Matrix for details.

Operating Requirements

	Minimum	Maximum
Air Temperatures	50°F (10°C)	100°F (38°C)
Water Temperatures	40°F (4.4°C)	100°F (38°C)
Remote Cond. Temps	-20°F (-29°C)	120°F (49°C)
Water Pressures	20 PSIG (1.4 bar)	80 PSIG (5.5 bar)
Electrical Voltage	-10%	+10%