APPENDIX

NEW KDHE LABORATORY

CONCEPTUAL DESIGN + PROGRAMMING

7 JANUARY 2020

THE CLARK ENERSEN PARTNERS | STATE OF KANSAS

The Clark Enersen Partners

VOLUME II

The **Kansas Department of Health + Environment's (KDHE)** new laboratory facility will address the need for growth in spacial and equipment requirements, and ensure the goals of safety, quality of results, and efficiency are met while paying special attention to principles of sustainable design.

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APPENDIX

KDHE
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APPENDIX A

SPACE SUMMARY

SPACE SUMMARY

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
1.0	RECEIVING & ACCESSIONING						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
1.1	**Customer Service (Shipping & Accessioning)**		**12,531**			**8,730**	**-3,801**
1.1.1	**Dock**		677	1	750	750	73
1.1.2	**Locker Delivery Vestibule**		64	1	100	100	36
1.1.3	**Drive-up Sample Drop-off**			1	25	25	25
1.1.4	**Receiving & Accessioning (Including Health)**		2,079	1	1,500	1,500	-579
	Health Receiving		332		300	0	-332
1.1.5	**Shipping**			1	1,300	1,300	1,300
	Health Shipping		779		900	0	-779
	Environmental Shipping		312		400	0	-312
	Environmental Micro						0
1.1.6	**Box Storage**	1-A-16	845	1	300	300	-545
1.1.7	**Box Recycling/ Pick and Pack**	1-B-20, 127	668	1	600	600	-68
1.1.8	**Postal Cart Storage**	1-B-30	503	1	100	100	-403
1.1.9	**Bottle Storage**			0	50	0	0
	Staging/Shipping	1-B-27	322		100	0	-322
	Env. Supplies		40		75	0	-40
	Work Room		181		150	0	-181
1.1.10	**Main Stockroom**		1,500	1	2,000	2,000	500
1.1.11	**Cylinder Room**			1	230	230	230
1.1.12	**Flammable Storage Room (New and Waste)**	Outside	160	2	100	200	40
	Paper Stockroom		1,146		900	0	-1,146
1.1.13	**Storage**	4 rooms	1,042	1	300	300	-742
1.1.14	**Safety Supplies**	1-B-22	164	1	200	200	36
	Lab Coat Storage	2-C-26	110				-110
1.1.15	**Files (HD)**		449	1	450	450	1
	Conference Room		140				-140
1.1.16	**Staff Area, Open**		923	8	75	600	-323
1.1.17	**Files Area**		95	1	75	75	-20
	Subtotal - Receiving & Accessioning		**12,531**			**8,730**	**-3,801**

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
2.0	HEALTH CHEMISTRY						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
2.1	**Health Chemistry**		**3,808**	**9.0**		**3,267**	**-541**
2.1.1	**Receiving/Processing**			2	363	726	726
2.1.2	**Freezer Room**	2-C-6	946	1	363	363	-583
2.1.3	**Punch Room**	2-C-9	141	0.5	363	182	41
	Prep Lab	2-C-xx	884	0	363	0	-884
2.1.4	**Main Lab**	2-C-xx	1,024	5	363	1,815	791
	PCR, Master Mix	2-C-20	123		363	0	-123
	PCR, Pre-Amplification	2-C-18	150		363	0	-150
	PCR, Post-Amplification	2-C-19	135		363	0	-135
2.1.5	**Staff Area**	2-C-3	405	0.5	363	182	-224
	Subtotal - Health Chemistry		**3,808**	**9.0**		**3,267**	**-541**

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
3.0	VIROLOGY/SEROLOGY						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
3.1	**Virology/Serology**		**3,985**	**6.0**		**2,178**	**-1,807**
3.1.1	**Serology Lab**	2-B-10	947	3	363	1,089	142
	PCR, Master Mix	2-B-6	97		363	0	-97
3.1.2	**Sample Prep/Extractioin Lab**	2-B-7	398	0	363	0	-398
	PCR, Plate Loading	2-B-8	138		363	0	-138
	PCR, Amplification	2-B-9	222		363	0	-222
	PCR, Shared w/NBS	2-B-2	250		363	0	-250
3.1.3	**Vector-borne Testing Lab**	2-B-12	529	1	363	363	-166
3.1.4	**Freezer Room - Sample Storage**	2-B-14	575	1	363	363	-212
3.1.5	**Microscope Room**	2-B-15	119	0	363	0	-119
3.1.6	**Equipment Verification/Pipette Calibration**	2-B-4	324	0.5	363	182	-143
3.1.7	**Staff Area**			0.5	363	182	182
	Overflow Lab (Outbreaks)	2-B-5	386	0	363	0	-386
	Subtotal - Virology/Serology		**3,985**	**6.0**		**2,178**	**-1,807**

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
4.0	DIAGNOSTIC MICROBIOLOGY						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
4.1	Diagnostic Microbiology		5,703	13.2		4,464	-1,239
	Media Receiving	2-A-2	192		363	0	-192
4.1.1	Media Prep		680	2	363	726	46
4.1.2	Lab Storage	2-A-1	437	0.5	363	182	-256
	Chemical Storage	2-A-7	76		363	0	-76
4.1.3	Glasswashing/Sterilizing		540	0.67	363	243	-297
4.1.4	Sterilizer Equipment Room	2-A-5, 2-A-6	230	0.33	363	120	-110
	Master Mix	2-A-22	145		363	0	-145
4.1.5	Whole Genome	2-A-21	206	1.67	363	606	400
4.1.6	Whole Genome Sequencing, Pre-Amp	2-A-23	321	0	363	0	-321
4.1.7	Whole Genome Sequencing, Post-Amp	2-A-24	80	0	363	0	-80
	Imaging	2-A-25	112		363	0	-112
	Sequencing	2-A-19	200		363	0	-200
4.1.8	Bacteriology Support Lab	2-A-20	439	1	363	363	-76
	Bacteriology Prep Lab	2-A-11	333		363	0	-333
4.1.9	Bacteriology Lab	2-A-12	522	2.5	363	908	386
4.1.10	TB Ante Room	2-A-xx	136	0.33	363	120	-16
4.1.11	TB Lab	2-A-16, 2-A-17	559	2	363	726	167
4.1.12	TB Microscope Room	2-A-18, 2-A-17	139	0.33	363	120	-19
4.1.13	TB Autoclave	2-A-xx	172	0.33	363	120	-52
4.1.14	TB Sterilizer Equipment Room	2-A-13	54	1	50	50	-4
	PPE Storage	2-C-2	130		363	0	-130
4.1.15	Staff Area			0.5	363	182	182
	Subtotal - Diagnostic Microbiology		5,703	13.2		4,464	-1,239

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
5.0	MOLECULAR DIAGNOSTICS (SHARED)						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
5.1	Molecular Diagnostics		0	7.3		2,664	2,664
5.1.1	Reagent Prep/Master Mix (Clean Room)			0.67	363	243	243
5.1.2	Extraction			3	363	1,089	1,089
5.1.3	Pre Amplification			1	363	363	363
5.1.4	Amplification / Post Amp			2	363	726	726
5.1.5	Staff Area			0.67	363	243	243
	Subtotal - Molecular Diagnostics		0	7.3		2,664	2,664

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
6.0	BSL-3 LAB						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
6.1	BSL-3 Lab		817	4.03		1,464	647
6.1.1	BSL3 Corridor			1	363	363	363
6.1.2	Gowning Airlock	2-A-27	125	0.67	363	243	118
6.1.3	Changing Room			2	60	120	120
6.1.4	BSL-3 Lab	2-A-xx	454	2	363	726	272
6.1.5	De-gowning Airlock	2-A-xx	88	0.33	363	120	32
6.1.6	Personnel Shower-Out	2-A-xx	21	1	75	75	54
6.1.7	Pass-Thru Sterilizer	2-A-xx	58	1	50	50	-8
6.1.8	Sterilizer Waste	2-A-xx	43	1	100	100	57
6.1.9	Evidence Closet	2-A-xx	28	1	30	30	2
	Subtotal - BSL-3 Lab		817	4.03		1,464	647

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
7.0	ORGANIC CHEMISTRY						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
7.1	Organic Chemistry		6,041	15		5,445	-596
7.1.1	Sample Receiving/Storage			1	363	363	363
7.1.2	Extraction Lab	3-B-13, 3-B-14	775	3	363	1,089	314
7.1.3	Sample Prep/Extraction Storage	3-B-5	134	1	363	363	229
7.1.4	Instrument Room	3-B-4, 3-B-11	916	3	363	1,089	173
7.1.5	VOC Prep			0.5	363	182	182
7.1.6	VOC Instrument Room	3-B-16A, 3-B-16B	862	2.5	363	908	46
7.1.7	EM Lab	3-B-7, 3-B-10	1,253	2.5	363	908	-346
7.1.8	EM Dark Room			1	363	363	363
	Wet Lab	3-B-3, 3-B-12, 3-B-15	1,943		363	0	-1,943
	PCR Lab	3-B-9	158		363	0	-158
7.1.9	Staff Area			0.5	363	182	182
	Subtotal - Organic Chemistry		6,041	15.0		5,445	-596

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
8.0	INORGANIC CHEMISTRY						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
8.1	Inorganic Chemistry		4,294	13		4,719	425
8.1.1	Wet Lab	3-C-7	1,508	5	363	1,815	307
8.1.2	Testing Lab	3-C-5	338	1	363	363	25
8.1.3	Shared Instrument Lab	3-C-1, 3-C-4	1,214	4.5	363	1,634	420
	Prep Lab	3-C-2	224		363	0	-224
8.1.4	Chiller Room	3-C-12	149	0.5	363	182	33
8.1.5	Sample Prep	3-B-19, 3-B-20	778		363	0	-778
8.1.6	Sample Storage	3-C-8, 3-C-9	83	1	363	363	280
8.1.7	Staff Area (All Inorganic)			1	363	363	363
8.2	Chemical Terrorism		1,879	4.5		1,634	-246
8.2.1	CT Instrument Lab	3-A-7	835	2	363	726	-109
8.2.2	Prep Lab	3-A-4	370	1.33	363	483	113
8.2.3	Lab Storage	3-A-2,3-A-3,3-A-6,3-C-13	454	0.67	363	243	-211
8.2.4	Freezer Room	3-A-5	220	0.5	363	182	-39
8.3	Radiochemistry		2,301	6.33		2,298	-3
8.3.1	Main Lab	1-A-13	650	3	363	1,089	439
	Wet Chemistry Lab	1-A-xx	648		363	0	-648
8.3.2	Sample Prep Lab	1-A-5	335	1	363	363	28
8.3.3	Emergency Preparedness Lab	1-A-xx	340	1	363	363	23
8.3.4	Emergency Preparedness Hot Door/Air Loc	1-A-xx	140	0.5	363	182	42
8.3.5	Emergency Preparedness Hot Door/Air Lock			0.33	363	120	120
8.3.6	Lab Storage	1-A-3	188	0.5	363	182	-7
	Subtotal - Inorganic Chemistry		8,474	23.8		8,650	176

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
9.0	**OFFICES AND BUILDING SUPPORT**						
Number	**Area**	**Room No.**	**NSF**	**Qty**	**NSF Ea.**	**NSF**	**NSF Diff.**
9.1	**Administrative Suite**		**1,975**			**1,750**	**-225**
9.1.1	**Director Office**	1-C-7	477	1	350	350	-127
9.1.2	**Safety Office**	1-C-9	413	1	350	350	-63
9.1.3	**Administrative Assistant**	1-C-7	178	1	225	225	47
9.1.4	**Conference Room**	1-C-8	701	20	25	500	-201
9.1.5	**Work Room**			1	150	150	150
9.1.6	**Reception and Waiting**		206	5	35	175	-31
9.2	**Business & CLIA/ELIPO Office**		**1,340**			**1,050**	**-290**
9.2.1	**Fiscal Manager Office**	1-C-5	164	1	150	150	-14
9.2.2	**Purchasing Office**	1-C-3	171	1	150	150	-21
9.2.3	**Open Office (CLIA 2 workstations)**	1-C-2	314	3	75	225	-89
9.2.4	**Open Office (ELIPO 2 workstations)**	1-C-4	321	3	75	225	-96
9.2.5	**Administrative Assistant**	1-C-1	178	1	150	150	-28
9.2.6	**Work Room**	1-C-xx	192	1	150	150	-42
9.3	**Quality Assurance**		**2,517**			**3,300**	**783**
9.3.1	**Training Coordinator Office**	1-C-12	267	1	225	225	-42
9.3.2	**Section Chief Office**	1-C-11	257	1	350	350	93
9.3.3	**Training Lab**	2-B-22	382	2	363	725	343
9.3.4	**Training/Conference Room**	1-B-16	1,611	80	25	2,000	389
9.4	**IT/LIMS**		**1,218**			**985**	**-233**
9.4.1	**LIMS Admin Office**		362	2	150	300	-62
9.4.2	**IT Work Room/open office**		475	1	300	300	-175
9.4.3	**IT Storage**		220	1	225	225	5
9.4.4	**Server Room**		161	1	160	160	-1
9.5	**Breath Alcohol**		**1,732**			**1,725**	**-7**
9.5.1	**Breath Alcohol Instrument Room**	1-B-25	909	1	1,200	1,200	291
9.5.2	**Office**	1-B-34, 1-B-33	174	3	75	225	51
9.5.3	**Administrative Assistant**		150	1	150	150	0
9.5.4	**Work Room**	1-B-35	131	1	150	150	19
	Huddle Room	1-B-32	97		150	0	-97
	Customer Training	1-B-23	271		300	0	-271
9.6	**Laboratory Offices**		**5,731**			**5,625**	**-106**
9.6.1	**Health Section Chief Office**	2-B-21	362	1	350	350	-12
9.6.2	**Environment Section Chief Office**	3-B-1	388	1	350	350	-38
9.6.3	**Health Chemistry Office**	2-C-8, 2-C-7	215	1	150	150	-65
9.6.4	**Health Chemistry Shared Office**	2-C-5, 2-C-4, 2-C-21, 2-C-16	629	10	75	750	121
9.6.5	**Virology/Serology Office**	2-B-1, 2-B-18	486	1	150	150	-336
9.6.6	**Virology/Serology Shared Office**	2-B-20, 2-B-19	654	6	75	450	-204
9.6.7	**Diagnostic Microbiology Office**	2-C-22	314	1	150	150	-164
9.6.8	**Diagnostic Microbiology Shared Office, Sm**	2-C-23, 2-C-26	366	4	100	400	34
9.6.9	**Diagnostic Microbiology Shared Office, Lar**	2-C-1	914	8	75	600	-314
9.6.10	**Organic Chemistry Office**	3-B-6, 3-B-8	328	1	150	150	-178
9.6.11	**Organic Chemistry Shared Office**			6	75	450	450
9.6.12	**VOC/EM Shared Office**			6	75	450	450
9.6.13	**Inorganic Chemistry Office**	3-C-11	151	1	150	150	-1
9.6.14	**Inorganic Chemistry Shared Office**	3-C-10	217	5	75	375	158
9.6.15	**Chemical Terrorism Shared Office**	3-A-1, 3-A-8	270	3	100	300	30
	Radiochemistry Office	1-A-15, 1-A-14, 1-A-2	360	0	150	0	-360
9.6.16	**Radiochemistry Shared Office**			4	100	400	400
	Radiochemistry File Storage/Library	1-A-8	77	0	75	0	-77
9.7	**Shared Space**		**3,232**			**6,075**	**2,843**
9.7.1	**Break Room**	1-C-10	1,283	80	25	2,000	717
9.7.2	**Outdoor Break Area**				400	0	0
9.7.3	**Security**		178	1	150	150	-28
9.7.4	**Lobby/Waiting/Museum**		575	1	600	600	25
9.7.5	**Work Room**			2	150	300	300
9.7.6	**Locker Room**			2	150	300	300
9.7.7	**Shower**			2	75	150	150
9.7.8	**Fitness Room**	1-A-36	515	1	600	600	85
9.7.9	**Conference Room**	3-C-3	338	16	25	400	62
	Conference Room	2-B-23	311		25	0	-311
9.7.10	**Huddle Room**			6	100	600	600
9.7.11	**Wellness/Mother's Room**		32	1	75	75	43
9.7.12	**Storage**			1	900	900	900
	Subtotal - Offices and Building Support		**17,745**			**20,510**	

SPACE SUMMARY		Existing Area (Net)		Proposed Area (Net)			
10.0	BUILDING SUPPORT/MAINTENANCE AND HOUSEKEEPING						
Number	Area	Room No.	NSF	Qty	NSF Ea.	NSF	NSF Diff.
10.1	Maintenance		3,782			2,685	-1,097
10.1.1	Shared Office	B-7	175	3	75	225	50
10.1.2	Electrical Shop	B-1	1,471	1	900	900	-571
10.1.3	Manager Office	B-6	260	1	160	160	-100
10.1.4	Personnel Lockers			2	0	0	0
10.1.5	Operator Control Room	power plant		1	100	100	100
10.1.6	Tool Workroom	B-13	1,200	1	900	900	-300
10.1.7	Break Area (Shared)	B-7	480	10	25	250	-230
10.1.8	Restroom, Single Stall		196	2	75	150	-46
10.2	Housekeeping		1,587			960	-627
10.2.1	Storage	B-4, B-8	594	1	400	400	-194
10.2.2	Housekeeping Closet		292	3	50	150	-142
10.2.3	Laundry		383	1	100	100	-283
10.2.4	Supervisor Office		168	1	160	160	-8
10.2.5	Shared Office		150	2	75	150	0
	Subtotal - Building Support/Maintenance and Housekeeping		5,369			3,645	

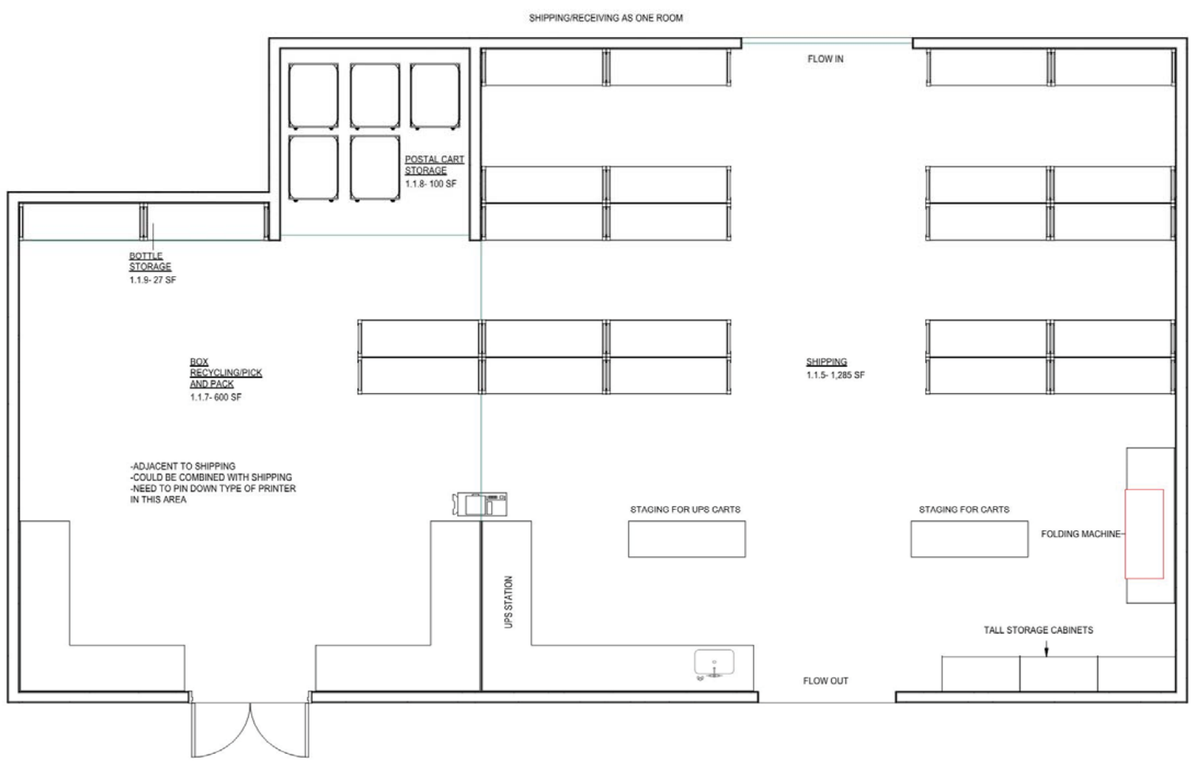
SUMMARY	Existing NSF	64,473	Proposed NSF	61,018	-3,455

APPENDIX B

ROOM DATA SHEETS

ROOM DATA SHEETS

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
1.1	**Customer Service (Shipping & Accessioning)**				
1.1.1	Dock	1	750	750	
1.1.2	Locker Delivery Vestibule	1	100	100	
1.1.3	Drive-up Sample Drop-off	1	25	25	
1.1.4	Receiving & Accessioning (Including Health)	1	1500	1500	
1.1.5	Shipping	1	1300	1300	
1.1.6	Box Storage	1	300	300	
1.1.7	Box Recycling/ Pick and Pack	1	600	600	
1.1.8	Postal Cart Storage	1	100	100	
1.1.9	Bottle Storage	0	50	0	
1.1.10	Main Stockroom	1	2000	2000	
1.1.11	Cylinder Room	1	230	230	
1.1.12	Flammable Storage Room (New and Waste)	2	100	200	
1.1.13	Storage	1	300	300	
1.1.14	Safety Supplies	1	200	200	
1.1.15	Files (HD)	1	450	450	
1.1.16	Staff Area, Open	8	75	600	
1.1.17	Files Area	1	75	75	
Subtotal - Receiving & Accessioning				**8730**	**12531**

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.1
Room Name: Dock
Number of Spaces Required: 1
NASF Per Space: 750
Total NASF: 750
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Dock for receiving of Health/Environment samples. Space for two truck bays (Semi-truck) with lift and a bay for a cram-a-lot and recycling.

Utilization

The dock receives samples early in the morning from USPS. UPS and FedEx bring large, varied deliveries throughout the day. Receive pallats of stockroom supplies, gas tanks, and the shipping of various kits, and waste.

Adjacencies

1.1.2 Locker Delivery Vestibule
1.1.4 Receiving & Accessioning
1.1.5 Shipping
1.1.10 Main Stockroom
1.1.11 Cylinder Room
1.1.12 Flammable Storage Room
Dock Manager's Office - view to entire dock

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Dock Doors							
2	Dock Levelers / Lifts							
1	Cram-a-lot							
1	Recycling container							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Security Cameras, 1:12 ramp access
Dock Door (8'W x 9'H)

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other	●
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Sealed Concrete	●
Walls	
Painted Drywall	
Painted CMU	●
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	10'-0"

Notes: Tank Farm, LN2, L Argon, Helium, Argon, Zero Grade Nitrogen, P10 Deliveries every Monday

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.2
Room Name: Locker Delivery Vestibule
Number of Spaces Required: 1
NASF Per Space: 100
Total NASF: 100
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Space for after hours sample drop off

Utilization

Visitors / couriers dropping off samples with notification to Customer Srevices

Adjacencies

1.1.1 Dock
1.1.3 Drive-up Sample Drop-off
1.1.4 Receiving & Accessioning

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Refrigerated Sample Locker (pass-thru)							New
6	Ambient Sample Locker (pass-thru)							New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	●
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Security Camera, Auto door opener

Notes: Refrigerated lockers and ambiant lockers

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	9'-0"

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.3
Room Name: Drive-up Sample Drop-off
Number of Spaces Required: 1
NASF Per Space: 25
Total NASF: 25
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

A pass-thru for individual sample drop-off by the public

Utilization

Adjacencies

1.1.2 Locker Delivery Vestibule

1.1.4 Receiving & Accessioning

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Pass-thru - interlocked, lockable		2' x 2' x 2'					New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	
Dimming	

Remarks: Notifier, monitor, video feed

Notes: For deliverys - 2-3 boxes - secure access

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.4
Room Name: Receiving & Accessioning (Including Health)
Number of Spaces Required: 1
NASF Per Space: 1,500
Total NASF: 1,500
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Receiving of Health/Environment samples.

Utilization

Multiple people utilize this space for receiving samples and performing some unboxing and accessioning. Individuals from Customer Service and from the Health and Environment labs assist with these efforts

Adjacencies

1.1.1 Dock
1.1.2 Locker Delivery Vestibule
1.1.3 Drive-up Sample Drop-off
1.1.16 Staff Area, Open

2.0 Health Chemistry

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Walk-in Cooler		96" x 96"	F		120V	Em	New
1	Copier - multifunction			F		120V		New
2	Biosafety Cabinet	Type II A2	76" x 32"	F		120V	Em	New
1	3-door 4 Deg.C Refrigerator (Heath)					120V	Em	New
1	Refrigerator (VOC)			F		120V	Em	New
1	TV Monitor - wall hung							
2	Log-in Stations (Environmental)							
2	Log-in Stations (Health)							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	Mop Sink
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Resiliant flooring

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	10'-0"

Notes: Need connection to Health Chemistry, Central sample walk-in cooler (4-carts, shelves) - Copier, 2 BSC's, 1 3 door ref, 3 log-in stations, PPE, disinfecting station, misc table for supplies - in same space as Receiving - located in safe area - Sink

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.5
Room Name: Shipping
Number of Spaces Required: 1
NASF Per Space: 1,300
Total NASF: 1,300
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Area to ship health and environment samples via UPS and Central Mail courier and USPS.

Utilization

Customer Service staff and support from environment lab staff - staging for postal carts once a month

Adjacencies

1.1.1 Dock
1.1.6 Box Storage
1.1.7 Box Recycling/pick and pack
1.1.8 Postal cart storage
1.1.9 Bottle Storage
1.1.10 Main stockroom
1.1.16 Staff area
Combined with Receiving

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Copier - multifunction			F		120V		New
1	Shredder							
	Fedex Machine							
	UPS Log-in Computer							
	Storage							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Include reporting area (copier, etc.), include mail area ups station, Need sink, storage shelves, couple of tables, shipping and packing

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.6
Room Name: Box Storage
Number of Spaces Required: 1
NASF Per Space: 300
Total NASF: 300
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Place to store shipping boxes of various sizes on pallets for Environment shipping functions

Utilization

Storage and pick by environment staff

Adjacencies

1.1.10 Main Stockroom
1.1.5 Shipping
Could be included within the main stockroom

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Combine into paper/box stock room pallet space

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other ●
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Other (Sealed Concrete) ●
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.7
Room Name: Box Recycling/ Pick and Pack
Number of Spaces Required: 1
NASF Per Space: 600
Total NASF: 600
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Space to recycle cardboard boxes received, and to pick recycled boxes to ship kits.

Utilization

Used by Customer Service and Envirnoment staff

Adjacencies

1.1.5 Shipping
1.1.6 Box storage
1.1.10 Main Stockroom

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Printer							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Could combine large box recycling with open shipping (same room as shipping is OK) Printer

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.8
Room Name: Postal Cart Storage
Number of Spaces Required: 1
NASF Per Space: 100
Total NASF: 100
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Storage of large postal carts for shipping once per month

Utilization

Used primarily by environment staff

Adjacencies

1.1.5 Shipping
1.1.7 Box recycling/pick and pack

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting ●
- Dimming

Remarks: Opens into pick and pack room

Notes: Near shipping - need 5/month

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.10
Room Name: Main Stockroom
Number of Spaces Required: 1
NASF Per Space: 2,000
Total NASF: 2,000
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Near the dock. Place to store most of the shipping and receiving supplies and supplies for the lab operations. Ideally managed by a stockroom clerk.

Utilization

Limited access to control inventory

Adjacencies

1.1.1 Dock
1.1.4 Receiving & Accessioning
1.1.5 Shipping
1.1.6 Box Storage
1.1.11 Cylinder Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Storage Shelving							
	Flammable Cabinet							
	Corrosive Cabinet							
	Workstation (with view out to dock)							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	
Other	●
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Other (Sealed Concrete)	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Connected to dock - include workstation cylinders to be in different space include pallet space for paper, cardboard, bottles and shelving for supplies

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.11
Room Name: Cylinder Room
Number of Spaces Required: 1
NASF Per Space: 230
Total NASF: 230
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Place to receive, store, pipe lab cylinder gas systems that are manifolded for use throughout the building. The location should be near to dock for ease in transferring in/out cylinders from the vendor.

Utilization

Controlled access to be maintained by lab cylinder gas vendor. Approximately 50% are large dewars and 50% regular cylinders

Adjacencies

1.1.1 Dock
1.1.10 Main Stockroom

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Cylinder Storage Racks			F				
	Cylinder Manifold System			W				
	Cylinder Cabinets			F				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	●
Laboratory Air	●
Laboratory Nitrogen	●
Laboratory Vacuum	●
Cylinder Gases	●
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Load on one side

Notes: Manifolded system near dock

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Other (Sealed Concrete)	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.12
Room Name: Flammable Storage Room (New and Waste)
Number of Spaces Required: 2
NASF Per Space: 100
Total NASF: 200
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Provide a safe, fire-rated construction for the storage of larger quantities of flammables including new and waste.

Utilization

Class I Div II space

Adjacencies

1.1.1 Dock
1.1.10 Main Stockroom

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	●
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	
Dimming	

Remarks:

Notes: Look at a space within the new facility - near dock

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	
Painted CMU	●
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.13
Room Name: Storage
Number of Spaces Required: 1
NASF Per Space: 300
Total NASF: 300
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Additional space for storage of Health & Envirnment

Utilization

Adjacencies

1.1.10 Main Stockroom

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Shelving							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Health and Environment

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.14
Room Name: Safety Supplies
Number of Spaces Required: 1
NASF Per Space: 200
Total NASF: 200
Contact Person: Michael Weinkauf

Goals, Objectives and Activities of Spaces

Storage of lab safety supplies and PPE

Utilization

Adjacencies

Flexible Location

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Shelving							
	Tall Storage Cabinet							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: Flexible location - include lab coat storage

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.15
Room Name: Files (HD)
Number of Spaces Required: 1
NASF Per Space: 450
Total NASF: 450
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

High density storage space for rotation of long-term samples and files in an ambient room environment with controlled humidity.

Utilization

All groupd will require access to retrieve past spamels/files upon request.

Adjacencies

1.1.10 Main Stockroom
1.1.16 Staff Area, Open

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	High Density Storage System		16' x 20' x 8'	F		120V		New

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required ●

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks: Dry suppression not required

Notes: Near CS area or stockroom humidity controlled

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other ●
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height 10'-0"

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.16
Room Name: Staff Area, Open
Number of Spaces Required: 8
NASF Per Space: 75
Total NASF: 600
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Open office environment for 8 staff workstations with access to exterior views (south facing)

Utilization

Space for Customer Service staff

Adjacencies

1.1.17 Files Area
1.1.4 Receiving
1.1.5 Shipping

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
8	Workstations		8' x 9'	F	Data	120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	
Dimming	

Remarks: No conference room required

Notes: Windows - central location

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 1.1
Area Name: Customer Service
Room Number: 1.1.17
Room Name: Files Area
Number of Spaces Required: 1
NASF Per Space: 75
Total NASF: 75
Contact Person: Shane Lahman

Goals, Objectives and Activities of Spaces

Space within open office for file storage

Utilization

Adjacencies

1.1.16 Staff Area, Open

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	File Cabinet	Lateral		F				New

DESIGN CRITERIA

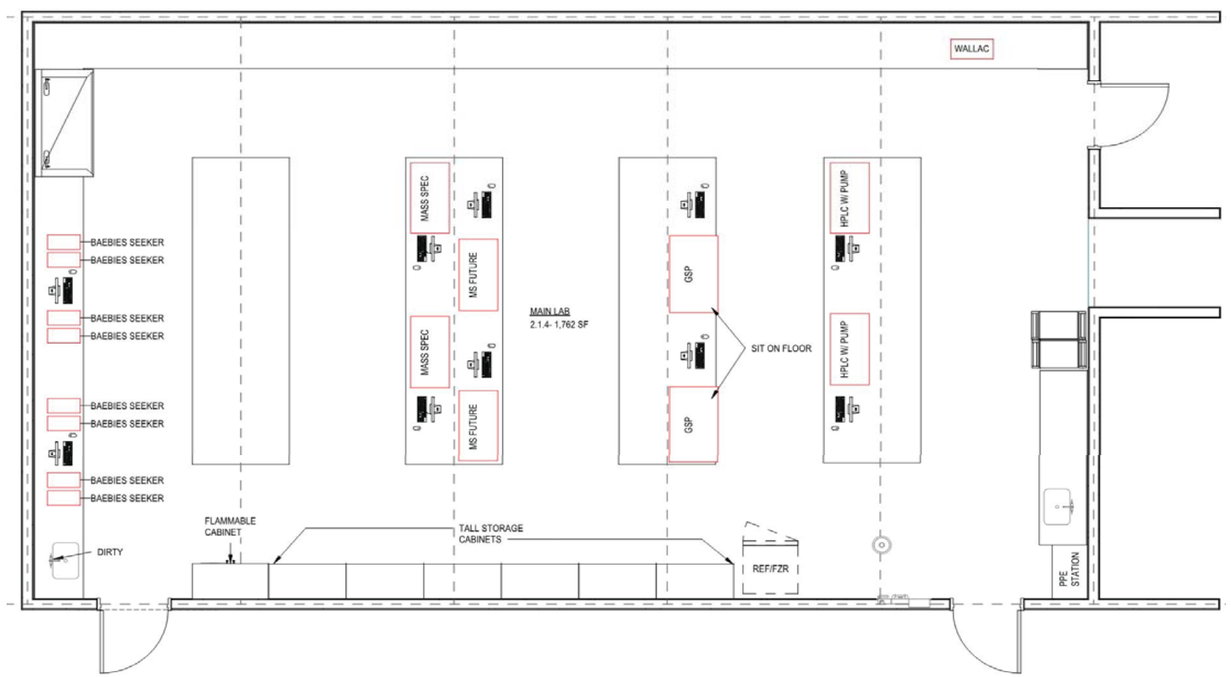
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	
Dimming	

Remarks: Within open office space

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
2.1	**Health Chemistry**				
2.1.1	Receiving/Processing	2.0	363	726	
2.1.2	Freezer Room	1.0	363	363	
2.1.3	Punch Room	0.5	363	182	
2.1.4	Main Lab	5	363	1815	
2.1.5	Staff Area	0.5	363	182	
Subtotal - Health Chemistry				**3267**	**3808**

ROOM DESCRIPTION

Activity Information

Area Code Number: 2.1
Area Name: Health Chemistry
Room Number: 2.1.1
Room Name: Receiving/Processing
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Receiving of 150+/- specimens from Customer Service daily.

Utilization

Health Chemistry staff

Adjacencies

Customer Service
PCR
2.1.2 Freezer Room
2.1.3 Punch Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Computer							
1	Log-in Computer / Label Printer							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	8-4:30 Saturday
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Task Lighting

Notes: Now combine with Processing

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 2.1
Area Name: Health Chemistry
Room Number: 2.1.2
Room Name: Freezer Room
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Space to store all specimens. Improve optimization of current space with improved workflow

Utilization

Health Chemistry Staff

Adjacencies

Diagnostic Microbiology
Virology / Serology
Molecular Diagnostics
Receiving
2.1.1 Receiving
2.1.3 Punch Room
2.1.4 Main Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Freezers			F		120V		New
1	Refrigerator			F		120V		New
1	Printer			B	Data	120V		
1	Commercial Refrigerator			F				
2	Ultra Low Freezer (-80)	TSX 600-Box	34.4 x 37.6 x 78	F		120V, 15A	Em	New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: May need a freezer room

Notes: Include Freezers & Files

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 2.1
Area Name: Health Chemistry
Room Number: 2.1.3
Room Name: Punch Room
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Punch blood spots from each speceimn received, (normal and abnormal)

Utilization

Health Chemistry staff

Adjacencies

Diagnostic Microbiology
Virology / Serology
Molecular Diagnostics
Receiving
2.1.1 Receiving/Processing
2.1.4 Main Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Panthera Puncher	9		B		120V	UPS	
2	Wallace/Perkin Elmer Puncher	1296-081		B		120V	UPS	

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	
Dimming	

Remarks: Auto sliding door

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	Greater than 40% RH
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 2.1
Area Name: Health Chemistry
Room Number: 2.1.4
Room Name: Main Lab
Number of Spaces Required: 5
NASF Per Space: 363
Total NASF: 1,815
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Analyze specimens in an efficient manner

Utilization

Health Chemistry staff

Adjacencies

Diagnostic Microbiology
Virology / Serology
Molecular Diagnostics
Receiving

2.1.2 Processing
2.1.3 Punch Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	TDQ MS, Acquity Ultra Performance LC						UPS	
4	Compressor (MS), Perkin Elmer			F	Snorkel			
2	Nitrogen Generator, Peak Scientific	NM-3G		F				
2	Battery Backup, Powervar Security Plus			F				
2	Argon Tank			F				
2	Incubator Shaker, Perkin Elmer	Trinest		B				
2	Sample Manager, Waters (goes with mass s	2777C		B				
2	HPLC Binary Pump, Waters	1525µ		B	DI			
2	GSP			F	DI		UPS	
2	Hemoglobinopathy HPLC, BioRad Variant	NBS		F				
1	Wallace/Perkin Elmer Puncher	1296-071		B		120V	UPS	
8	Baebies Seeker			B				
1	Combo fridge/freezer			F				
	Storage							
1	Chemical Fume Hood		6'	F				
1	Flammable Stroage Cabinet	45 gal	43 x 18 x 65	F				New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	●
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	
Other	Argon
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	●
Electrical Services	
120V, 20A, 1 Phase	●
208V	●
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Environmental Conditions	
Temperature	
66-70 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Remarks: Could do house N2 & Ar, House UPS

Notes: Include freezer alcove. Auto Delfia's will be going away and will add 2 GSPs, 1 computer for 4 Baebies seekers, clean and dirty sink, 1 Fume Hood (acid and flamm below), 1 flammable cabinet

ROOM DESCRIPTION

Activity Information

Area Code Number: 2.1
Area Name: Health Chemistry
Room Number: 2.1.5
Room Name: Staff Area
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Space within lab zone for staff to meet and discuss work outside of BSL space.

Utilization

Health Chemistry staff

Adjacencies

Diagnostic Microbiology
Virology / Serology
Molecular Diagnostics
Receiving

2.1.4 Main Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Touchdown Desks	sit-to-stand	4' x 2' x 30"	F		120V		New
1	Conference Table	4 person		F				New
1	Marker Board			W				New
1	TV Monitor			W		120V		New

DESIGN CRITERIA

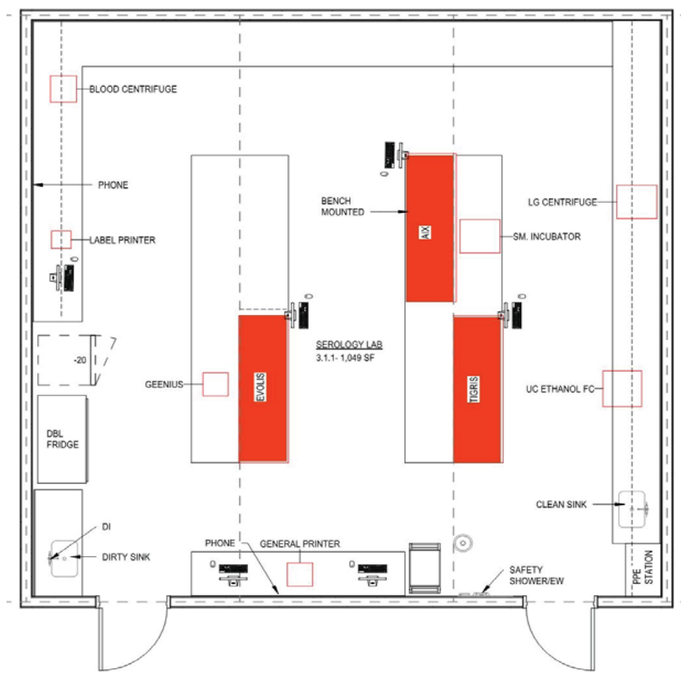
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
3.1	**Virology/Serology**				
3.1.1	Serology Lab	3	363	1089	
3.1.2	Sample Prep/Extractioin Lab	0	363	0	
3.1.3	Vector-borne Testing Lab	1	363	363	
3.1.4	Freezer Room - Sample Storage	1	363	363	
~~3.1.5~~	~~Microscope Room~~	~~0~~	~~363~~	~~0~~	
3.1.6	Equipment Verification/Pipette Calibration	0.5	363	182	
3.1.7	Staff Area	0.5	363	182	
	Subtotal - Virology/Serology			**2178**	**3985**

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.1
Room Name: Serology Lab
Number of Spaces Required: 3
NASF Per Space: 363
Total NASF: 1,089
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Samples are brought here and where the HTP instrumentation resides and blood testing is performed. Aliquat of serum into multiple tubes.

Utilization

Virology/Serology staff

Adjacencies

Customer Service (Receiving)
Molecular Diagnostics (Microbiology)
BSL-3
Health Chemistry
3.1.2 Sample Prep/Extraction Lab
3.1.4 Freezer Room - Sample Storage

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Double Door Refrigerator			F		120V	Em	New
1	Freezer (-20), Large			F		120V	Em	New
1	Tigris (will be Panther)		48 x 32 x 69 (6' clear w)	F	Data	100-240 VAC	UPS	Ex
1	Bio Rad EVOLIS		45.2x30.4x38 (plus table)	F	Data	110V	UPS	Ex
1	AIX1000		25.2x22.4x17.7 (36h open)	B	Data	120V	UPS	Ex
3	Computers, Reporting			B	Data	120V	Em	
1	Printers			B		120V		
1	Label Printer			B		120V		
1	Geenius (assoc. w/ Evolis)			B		surge protection		Ex
1	Centrifuge, Blood			B		120V		Ex
1	Centrifuge , Tigris (Swinging bucket)			B		120V		Ex
1	Incubator			B		120V		Ex
1	Flammable cabinet - small under bench	891220	20 x 14.6 x 35	F				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	SS/EW
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Monitor adds 18 in to Panther width

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: More bench space, clean sink, dirty sink - both need DI, double door fridge, large -20 fzr, EW, high thruput instruments (each instrument needs 4ft, clean, 4 ft dirty 8 foot processing per instrument X 3

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.2
Room Name: Sample Prep/Extractioin Lab
Number of Spaces Required: 0
NASF Per Space: 363
Total NASF: 0
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Shared lab with Diagnostic Microbiology. Place to prep specimens for molecular testing.

Utilization

Shared with Virology/Seriology and Diagnostic Micro staff

Adjacencies

Customer Service (Receiving)
Molecular Diagnostics (Microbiology)
BSL-3
Health Chemistry

PCR Suite
3.1.1 Serology Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Biosafety Cabinet	Type II, A2	78 x 32 x 96	F		120V	Em	New
2	QiaCube			B		120V	UPS	Ex
1	Ultra Low Freezer (-80 deg.C)	FC660h	81.5 x 33.25 x 43	F			Em	New
1	Refrigerator			F		120V	Em	New
1	Benchtop Freezer (-20)			B			Em	New
1	Centrifuge, High Speed			B		120		Ex
1	Laptop			B	Data			Ex
1	Zebra Printer			B				Ex
1	Centrifuge, Swinging Bucket			B				Ex
1	Flammable Cabinet - (4 gallon)	890420	17 x 17 x 22	B				Ex
2	BSC Carts							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	EW
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Shared Lab with DM, 2 Biosafety Cabinets A2, Qia Cubes, Extraction Instruments, -80 nearby, fridge, small freezer (benchtop)

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.3
Room Name: Vector-borne Testing Lab
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Lab dedicated to vector-borne testing. Possibility to grow this area with inclusions of west nile virus testing and rickettsia. The lab should be capable of meeting BSL 2+ requirements

Utilization

Virology staff

Adjacencies

Customer Service (Receiving)
Molecular Diagnostics (Microbiology)
BSL-3
Health Chemistry

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Biosafety Cabinet	Type II A2	78" x 32" x 96"	F		120V	Em	New
1	Refrigerator			F		120V	Em	New
1	Freezer (-20 degC)			F		120V	Em	New
1	PCR Workstation, AirClean (Dead air box)	600		B		120V		Ex
1	Incubator			B		120V		Ex
1	Platewasher (inside the airbox)							
1	Platereader/Computer/Printer			B	Data	120V	Em	Ex
1	MagNA pure			B		120V	UPS	Ex
1	High Speed Centrifuge			B				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Cleanable Ceiling Tile

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: BSL-2+, BSC - 6' A2, 2 fridge/fzr, 1- -20 fzr, benchtop incubator, dead air box w/ plate washer, plate reader/computer, magnapure

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.4
Room Name: Freezer Room - Sample Storage
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Room with sample storage freezers and shipping supplies

Utilization

Virology/Serology staff

Adjacencies

3.1.5 Dark Room
3.1.2 Sample Prep/Extraction Lab
3.1.3 Vector Borne Testing Lab
3.1.1 Serology Lab
Customer Service (Receiving)
Molecular Diagnostics (Microbiology)
BSL-3
Health Chemistry

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Freezer (-20 deg.C)			F		120V	Em	New
1	Ultra Low Freezer (-65 deg.C)	FC660h	81.5 x 33.25 x 43	F		120V	Em	New
1	Freezer (-20 deg.C)			F		120V	Em	Future

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	
Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Remarks:

Notes: 4 -20 Fzrs. tested samples (serum/tigris), 1 -80 Fzr, shipping supplies, clean sink

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.6
Room Name: Equipment Verification/Pipette Calibration
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Shared space for all groups. Light sensitive room - avoid windows

Utilization

All lab groups

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Computer							
	Printer							
	Artel		8.8 x 13.0 x 5.8	B		120V		Ex
1	Microscope			B		120V		Ex

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	●

Remarks: Light Sensitive, no windows

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	●
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Shared with all, Instrument, Computer, Bench, Printer, Sink (HCW)

ROOM DESCRIPTION

Activity Information

Area Code Number: 3.1
Area Name: Virology/Serology
Room Number: 3.1.7
Room Name: Staff Area
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

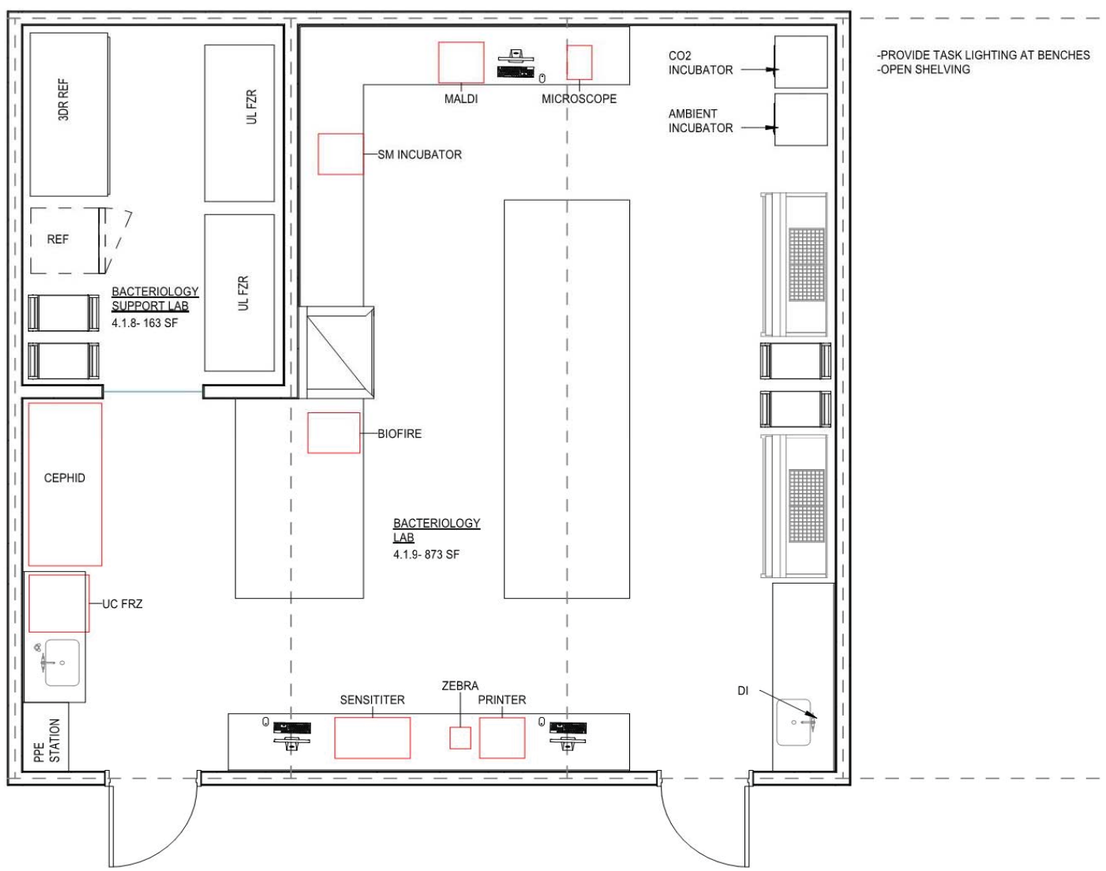
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
4.1	**Diagnostic Microbiology**				
4.1.1	Media Prep	2	363	726	
4.1.2	Lab Storage	0.5	363	182	
4.1.3	Glasswashing/Sterilizing	0.67	363	243	
4.1.4	Sterilizer Equipment Room	0.33	363	120	
4.1.5	Whole Genome	1.67	363	606	
4.1.6	Whole Genome Sequencing, Pre-Amp	0	363	0	
4.1.7	Whole Genome Sequencing, Post-Amp	0	363	0	
4.1.8	Bacteriology Support Lab	1	363	363	
4.1.9	Bacteriology Lab	2.5	363	908	
4.1.10	TB Ante Room	0.33	363	120	
4.1.11	TB Lab	2	363	726	
4.1.12	TB Microscope Room	0.33	363	120	
4.1.13	TB Autoclave	0.33	363	120	
4.1.14	TB Sterilizer Equipment Room	1	50	50	
4.1.15	Staff Area	0.5	363	182	
	Subtotal - Diagnostic Microbiology			**4464**	**5703**

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.1
Room Name: Media Prep
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Service is the In-house media prep area, and serves the entire lab as needed.

Utilization

DM staff

Adjacencies

4.1.2 Lab Storage
4.1.3 Glasswashing/Sterilizing
Virology/Serology
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Triple Door Refrigerators		85 x 37.2 x 79.2	F		115V 16 Amp	Em	New
2	Autoclave	26AV	46.375 x 54 x 77.25	F				New
1	Laminar Flow Hood		75 x 34 x 48.4	B	vacuum pump	115V, 15A	Em	New
1	Waterbath			B				
4	Hot Plates			B				
1	Balance, Gram Scale			B				
1	Flammable Storage Cabinet	45 gallon cabine	43 x 18 x 65	F				
1	Computer/Printer			B				
1	Phone			B				
1	Wheaton Dispensing Pump		Next to hood	B				
1	PH Meter			B				New
1	Fume Hood	Labconco Prote	48 x 37.7 x 95	F		100-115V, 10A		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	●
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	●
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Overhead power for flexibility

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	30-60%
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.2
Room Name: Lab Storage
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Storage for Diagnostic Micro Lab

Utilization

Diagnostic Micro Staff

Adjacencies

4.1.1 Media Prep
Virology/Serology
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Open Shelving							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Include Chem Storage, and 3 door refrigerators from Lab Storage, and media receiving functions.

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.3
Room Name: Glasswashing/Sterilizing
Number of Spaces Required: 0.67
NASF Per Space: 363
Total NASF: 243
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

A shared space for the entire facility for sterilizing and washing glassware

Utilization

Entire lab groups

Adjacencies

4.1.1 Media Prep
4.1.4 Sterilizer Equipment Room
Virology/Serology
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Autoclave (dirty)	26AV	46.375 x 54 x 77.25	F				New
1	Glassware Washer/Dryer	Labconco	24.1 x 27.4 x 35	UC	HCW, DI	115V, 16 A		New
1	2 basin scullery sink with sideboards			F	HCW, DI			New
1	Transfer Cart			F				New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	●
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	●
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Stainless steel

Notes: Moved within Media Prep room

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.4
Room Name: Sterilizer Equipment Room
Number of Spaces Required: 0.33
NASF Per Space: 363
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Equipment and maintneance room for autoclaves and glasswasher

Utilization

By maintenance staff/vendors

Adjacencies

4.1.3 Glasswashing/Sterilizing

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	●
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Sealed Concrete with stainless steel wall panels

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other	●
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.5
Room Name: Whole Genome
Number of Spaces Required: 1.67
NASF Per Space: 363
Total NASF: 606
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Utilization

Diagnostic Microbiology Staff

Adjacencies

5.1.2 Extraction
5.1.3 Preamp
Diagnostic Microbiology

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Refrigerator							
1	Freezer							
2	Plate Spinner (1 future)							
2	Dead Air Box (1 future)							
2	Thermocycler (1 future)							
1	Computer							
1	Qubit							
1	Heat Block							
1	Millipure							
3	MiSiq							
1	Isiq							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.8
Room Name: Bacteriology Support Lab
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

4.1.9 Bacteriology Lab

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Ultra Low Freezer (-80)	FC660h	81.5 x 33.25 x 43	F			Em	New
1	Ultra Low Freezer (-50)	FC660h	81.5 x 33.25 x 43	F			Em	New
1	Triple door refrigerator		85 x 37.2 x 79.2	F		115V 16 Amp	Em	New
	Cart							
	Benchtop							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Could be combined with Bact. Lab

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Share equipment w/ virology amplification room, need DI with millipore, sink, Iseq, miseq

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.9
Room Name: Bacteriology Lab
Number of Spaces Required: 2.5
NASF Per Space: 363
Total NASF: 908
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

4.1.8 Bacteriology Support Lab

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Refrigerator			F			Em	New
1	Freezer	5 cu. ft.	18 x 20.25 x 26	UC			Em	New
2	Biosafety Cabinet	pe II A2 (Thimb		F	Exhaust	120V	Em	New
1	Incubator	CO2		F	water/drain	120V	Em	New
1	Incubator	Ambient		F		120V	Em	New
1	Incubator	42		B		120V	Em	Ex
1	Bruker MALDI-ToF / Computer	microflex		B		120V	Em	Ex
3	Computer			B		120V		
1	Printer (may be a shared printer/scanner nea			B		120V		
1	Sensititer (next to a comper)			B		120V		Ex
1	Cephid GeneXpert	Infinity-48s	85 x 35 x 78.5	F		230V	Em	Ex
1	Microscope							
	Zebra Printer							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Gram Stain Sink, Task Lighting, Upper Shelving

Notes: Inclulded in Bacteriology Lab

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	●
Acoustical Tile	
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.10
Room Name: TB Ante Room
Number of Spaces Required: 0.33
NASF Per Space: 363
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Gowning room and air lock for the TB suite. Room to have interlocking doors

Utilization

Adjacencies

4.1.11 TB Lab

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Gowning Storage			F				
	Mirror			W				
	Computer			B				
	File cabinet (1 lateral file, 1 small)			F				
	Printer			B				
	Phone			B/W				
	Storage racks with cubbies							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: In-Use Light, Intercom

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Ref, Fzr, 2 BSC's (B2's), CO2 Incubator, Ambient Incubator, Small 42 Deg Incubator, Cabinet space, Epoxy tops , Maldi, Fume Hood

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.11
Room Name: TB Lab
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

TB Ante Room

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Biosafety Cabinet	pe II A2 (Thimb	78.3 x 31.2 x 91.7	F	553-654 CFM	115V, 16A	UPS	New
1	Incubator	CO2		F	Water/Drain	120V	Em	Ex
1	Bactec Incubator			F			Em	New
2	Refrigerator			F		120V	Em	New
1	Centrifuge		28 x 28	B		120V		Ex
1	Centrifuge			F		120V		Ex
2	Computer			B		120V		
1	Plate Reader			B				
1	QFT			B				
1	cart			F				
1	Biosafety Cabinet	pe II A2 (Thimb	8'	F			UPS	New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Epoxy sink for gram staining

Notes: Gown, Computer, Files, Phone, Interlocking Doors

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.12
Room Name: TB Microscope Room
Number of Spaces Required: 0.33
NASF Per Space: 363
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Darkroom for microscopy work dedicated to the TB lab

Utilization

Adjacencies

4.1.11 TB Lab

Virology/Serology
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Microscope			B		120V		
1	Computer							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	Not Required

Remarks: Slide Storage (pull-out drawers)

Notes: Darkroom, 2 Scopes, Computer, Cabinet Space

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.13
Room Name: TB Autoclave
Number of Spaces Required: 0.33
NASF Per Space: 363
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Decontaminate biohazard waste autoclaving for Bacterology and TB

Utilization

TB and Bacteriology staff

Adjacencies

4.1.11 TB Lab
4.1.9 Bacteriology Lab
Virology/Serology
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sterilizer (26x26x39)	PT-SR-26A	48.375 x 58 x 71	F				New
	Sink on the waste side (single basin deep wi							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.14
Room Name: TB Sterilizer Equipment Room
Number of Spaces Required: 1
NASF Per Space: 50
Total NASF: 50
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Utilization

Service personnel

Adjacencies

4.1.13 TB Autoclave

Virology/Serology

Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	●
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other	●
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	
Ceiling Height	

Notes: There should be a TB Waste Room with scullery sink and spray hose and a shelf for the spore test incubator.

ROOM DESCRIPTION

Activity Information

Area Code Number: 4.1
Area Name: Diagnostic Microbiology
Room Number: 4.1.15
Room Name: Staff Area
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Space within lab zone for staff to meet and discuss work outside of BSL space.

Utilization

Diagnostic Microbiology Staff

Adjacencies

DM Lab Spaces

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Touchdown Desks	sit-to-stand	4' x 2' x 30"	F		120V		New
1	Conference Table	4 person		F				New
1	Marker Board			W				New
1	TV Monitor			W		120V		New

DESIGN CRITERIA

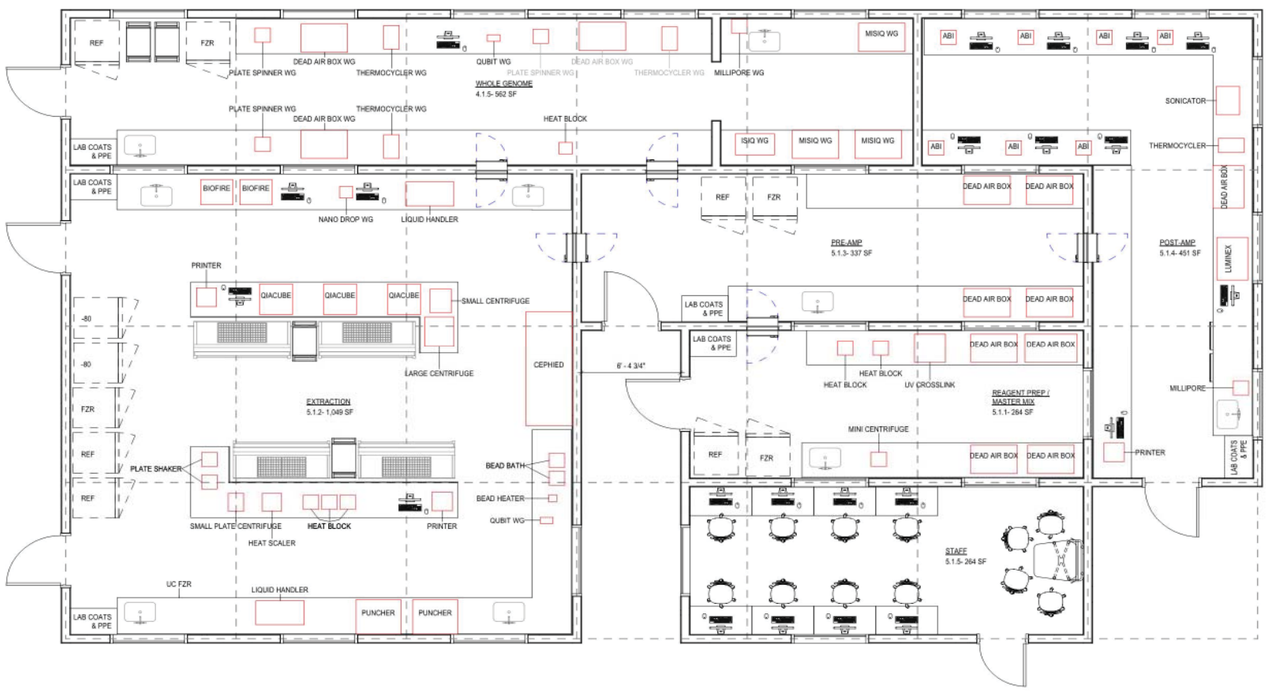
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Separate shared area for staff to reside during analytical experimentation

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
5.1	**Molecular Diagnostics**				
5.1.1	Reagent Prep/Master Mix (Clean Room)	0.67	363	243	
5.1.2	Extraction	3	363	1089	
5.1.3	Pre Amplification	1	363	363	
5.1.4	Amplification / Post Amp	2	363	726	
5.1.5	Staff Area	0.67	363	243	
	Subtotal - Molecular Diagnostics			**2664**	**0**

ROOM DESCRIPTION

Activity Information

Area Code Number: 5.1
Area Name: Molecular Diagnostics
Room Number: 5.1.1
Room Name: Reagent Prep/Master Mix (Clean Room)
Number of Spaces Required: 0.67
NASF Per Space: 363
Total NASF: 243
Contact Person:

Goals, Objectives and Activities of Spaces

Reagent Storage, Reagent Preparation and Master Mix Preparation. The first stage in the PCR workflow

Utilization

Shared core lab facility to be used by multiple groups.

Adjacencies

Health Chemistry
Diagnostic Microbiology
Virology / Serology
Environmental Microbiology

5.1.3 Pre Amplification

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Dead Air Box			B		120V		New
1	Refrigerator			F		120V	Em	New
1	Freezer			F		120V	Em	New
1	UV Crosslink			B		120V		
1	Mini Centrifuge			B		120V		
2	Heat Block			B		120V		

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: 1 Person

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 5.1
Area Name: Molecular Diagnostics
Room Number: 5.1.2
Room Name: Extraction
Number of Spaces Required: 3
NASF Per Space: 363
Total NASF: 1,089
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Shared core lab facility to be used by multiple groups.

Adjacencies

Health Chemistry
Diagnostic Microbiology
Virology / Serology
Environmental Microbiology
5.1.3 Pre Amplification
5.1.1 Reagent Prep/Master Mix

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Puncher, Wallace/Perkin Elmer	1296-071		B		120V	UPS	
4	Biosafety Cabinet	Type II A2	6'	F		120V	Em	New
3	Qia Cubes			B		120V		
4	Biofire							
1	Cephied							
3	Heat Blocks							
2	Bead Baths							
1	Large Centrifuge							
1	Small Centrifuge							
2	Ultralow Freezer (-70)			F			Em	New
2	Refrigerator			F				New
1.5	Freezer (-20)			F				New
2	Computer w/Printer			B		120V		
1	Beadbeater							
2	Liquid Handler							
1	Small Plate Centrifuge							
1	Heat Scaler							
1	Plate Shaker							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water ●
- Lab Cold Water ●
- Chilled Water
- House Pure Water ●
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet ●
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power ●
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting ●
- Dimming

Remarks: 3 sinks

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No ●
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive ●
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy ●
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

Notes: 3 people, positive to Amplification room, Type I water

ROOM DESCRIPTION

Activity Information

Area Code Number: 5.1
Area Name: Molecular Diagnostics
Room Number: 5.1.3
Room Name: Pre Amplification
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Shared core lab facility to be used by multiple groups.

Adjacencies

Health Chemistry
Diagnostic Microbiology
Virology / Serology
Environmental Microbiology

5.1.1 Reagent Prep/Master Mix
5.1.2 Extraction

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Dead Air Box			B		120V		
1	Freezer (-20)			F		120V	Em	New
1	Refrigerator			F		120V	Em	New

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power ●
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting ●
- Dimming

Remarks: 1 person, same size as master mix

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No ●
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative ●
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy ●
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 5.1
Area Name: Molecular Diagnostics
Room Number: 5.1.4
Room Name: Amplification / Post Amp
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person:

Goals, Objectives and Activities of Spaces

Shared PCR core lab. Post amp and equipment room

Utilization

Shared core lab facility to be used by multiple groups.

Adjacencies

Health Chemistry
Diagnostic Microbiology
Virology / Serology
Environmental Microbiology
5.1.3 Pre Amplification

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
`2-3	Real-Time PCR, Agilent AriaMX			B				
1	Multiplex Luminex			B				
2	PCR Workstation, AirClean (Dead air box)	600		B				
1	Freezer (-20)			F			Em	New
1	Refrigerator						Em	New
7	ABI							
9	Computer							
1	Thermocycler							
1	Sonicator							
2	Plate Spinner							
1	Millipore							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: 1 person + 3 person (Equip), Combine with Equipment Room, Luminex, dead air box (2), sink, (1 DM, fzr, 1 DM ref)

ROOM DESCRIPTION

Activity Information

Area Code Number: 5.1
Area Name: Molecular Diagnostics
Room Number: 5.1.5
Room Name: Staff Area
Number of Spaces Required: 0.67
NASF Per Space: 363
Total NASF: 243
Contact Person:

Goals, Objectives and Activities of Spaces

Non-BSL shared space directly outside the PCR suite for staff to reside during PCR process

Utilization

Shared core lab facility to be used by multiple groups.

Adjacencies

Health Chemistry
Diagnostic Microbiology
Virology / Serology
Environmental Microbiology

PCR Suite

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
8	Workstations							
12	Chairs							
1	Conference (Huddle) table							
1	TV/Monitor							

DESIGN CRITERIA

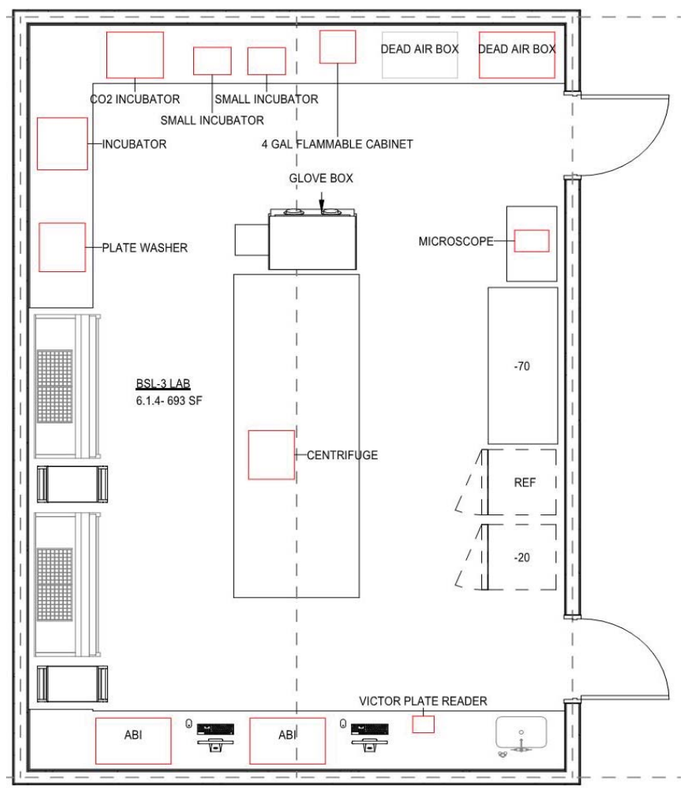
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
6.1	**BSL-3 Lab**				
6.1.1	BSL3 Corridor	1	363	363	
6.1.2	Gowning Airlock	0.67	363	243	
6.1.3	Changing Room	2	60	120	
6.1.4	BSL-3 Lab	2	363	726	
6.1.5	De-gowning Airlock	0.33	363	120	
6.1.6	Personnel Shower-Out	1	75	75	
6.1.7	Pass-Thru Sterilizer	1	50	50	
6.1.8	Sterilizer Waste	1	100	100	
6.1.9	Evidence Closet	1	30	30	
	Subtotal - BSL-3 Lab			**1464**	**817**

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.1
Room Name: BSL3 Corridor
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Circulation area for Bio safety level 3 space for biohazardous testing. Requires security cameras.

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
TB Lab
6.1.2 Gowning Airlock
6.1.5 Degown Airlock
6.1.9 Evidence Closet
4.1.10 TB Ante Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Sink							
	Storage Shelving (Evid.)							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	Flexible
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Sink, storage shelving - access to TB lab

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.2
Room Name: Gowning Airlock
Number of Spaces Required: 0.67
NASF Per Space: 363
Total NASF: 243
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Interlocking access controlled entry

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.1 BSL3 Corridor
6.1.3 Changing Room
6.1.4 BSL-3 Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Gowning Bench			F				New
2	Gowning Storage (wire racks)			F				New
1	Mirror			W				New
1	Lab Shoe Storage Cubbies			F				New
1	Desk			F				New
1	Computer			B		120V		New
1	File Cabinet - could be with the desk			F				New
1	Shelving above desk			W				New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	Flexible
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: Intercom, Interlocking doors

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	●
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

Notes: Gowning Bench, Gowning Storage, Mirror, Lab Croc Storage, Reporting Computer

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.3
Room Name: Changing Room
Number of Spaces Required: 2
NASF Per Space: 60
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Changing closets. Accessible to BSL3 corridor

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.6 Personnel Shower-Out
6.1.2 Gowning Airlock

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
8	Storage Cubbies			F				New
2	Bench			F				
2	Mirror			W				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	Flexible
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: 2 Changing Booths and Shared Locker Area

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	●
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.4
Room Name: BSL-3 Lab
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing.

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.2 Gowning Airlock
6.1.5 De-gowning Airlock
6.1.7 Pass-thru Sterilizer

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Biosafety Cabinet	ype II A2 (thimbl	78" x 32" x 96"	F	Elect	120V	UPS	New
2	Dead Air Box			B		120V	Em	1N, 1E
1	Glove Box	Type III	48"	F	Elect	120V	Em.	New
1	Refrigerator			F		120V	Em	New
1	Freezer (-20)			F			Em	New
1	Ultra Low Freezer (-70)	FC660h	81.5 x 33.25 x 43	F			Em	New
1	Co2 Incubator (Benchtop)			B			Em	New
1	Incubator			B			Em	New
2	Incubator, Small			B			Em	New
1	Flammable Storage Cabinet (4 gal)	Justrite890420	17 x 17 x 22	B				New
2	ABI			B	Data/computer	120V	UPS	Ex.
1	Victor Plate Reader w/ computer on top			B			Em	Ex.
1	Computer			B			Em	New
1	Microscope with power supply		3'W	B		120V	Em	Ex.
1	Centrifuge - near BSC			B		120V	Em	Ex.
1	Plate Washer			B		120V	Em	Ex.

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	EW
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	●

Remarks: Microscope on 30" High Table

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other 68-73 D F +/-	●
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other 36-60% RH	●
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	●
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	●
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

Notes: 2 6' BSC's, 2 Dead Air Boxes, Glove Box 1 Ref, 1 -20 Fzr, 1 -70 Ultracold, 2 Half-Size Incubator (1 CO2), 1 Small Incubator, Lab Sink HCW (staining) Double Bowl, Small Flamm Cab, Microscope with dimmable lighting

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.5
Room Name: De-gowning Airlock
Number of Spaces Required: 0.33
NASF Per Space: 363
Total NASF: 120
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Space to remove PPE

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.4 BSL-3 Lab
6.1.6 Personnel Shower-Out

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Coat Rack - to hang pappers as they dry							
	Metro Storage Rack							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other ●
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water ●
- Lab Cold Water ●
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data
- TV / Video
- LED Lighting ●
- Dimming

Remarks: Handwashing Sink

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.6
Room Name: Personnel Shower-Out
Number of Spaces Required: 1
NASF Per Space: 75
Total NASF: 75
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Space for showering

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.5 Degowning Airlock
6.1.3 Changing Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Pass-thru Shower			F	HCW			

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: 2 Showers

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.7
Room Name: Pass-Thru Sterilizer
Number of Spaces Required: 1
NASF Per Space: 50
Total NASF: 50
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Decontamination pass-thru sterilizer for decontaminating waste

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
6.1.4 BSL-3 Lab
6.1.8 Sterilizer Waste

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sterilizer (26x26x39)	PT-SR-26A	48.375 x 58 x 71	F				New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	
Other	Steam
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.8
Room Name: Sterilizer Waste
Number of Spaces Required: 1
NASF Per Space: 100
Total NASF: 100
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Room to house decontaminated waste prior to collection/disposal.

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
TB Sterilizer
6.1.7 Pass-Thru Sterilizer
6.1.1 BSL3 Corridor

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Metal Racks			F				
1	Spore Test Incubator	small		B		120V		
2	Trash Barrels	35 gal		F				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	●
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 6.1
Area Name: BSL-3 Lab
Room Number: 6.1.9
Room Name: Evidence Closet
Number of Spaces Required: 1
NASF Per Space: 30
Total NASF: 30
Contact Person: Philip Adam

Goals, Objectives and Activities of Spaces

Bio safety level 3 space for biohazardous testing. Space for FBI, KBI to take care of evidence.

Utilization

Dedicated and trained staff only

Adjacencies

Diagnostic Microbiology
Virology/Serology
Hot Door Access
6.1.1 BSL-3 Corridor

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Shelving							

DESIGN CRITERIA

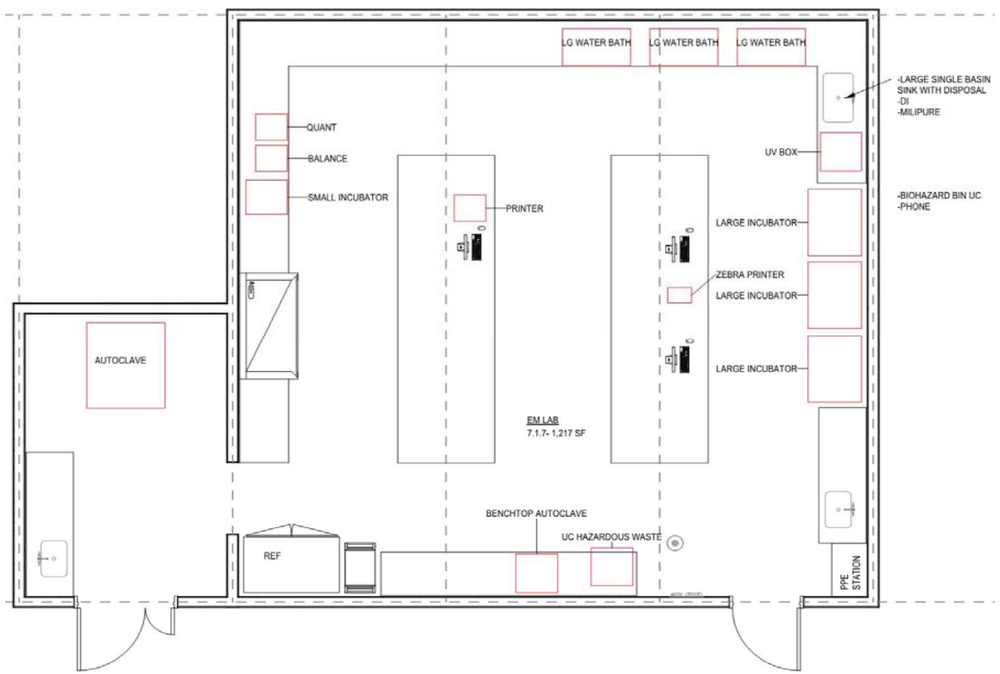
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Secured, Fire-Rated, Monitored Access

Notes: In BSL 3 Corridor

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	●
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	●
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
7.1	**Organic Chemistry**				
7.1.1	Sample Receiving/Storage	1	363	363	
7.1.2	Extraction Lab	3	363	1089	
7.1.3	Sample Prep/Extraction Storage	1	363	363	
7.1.4	Instrument Room	3	363	1089	
7.1.5	VOC Prep	0.5	363	182	
7.1.6	VOC Instrument Room	2.5	363	908	
7.1.7	EM Lab	2.5	363	908	
7.1.8	EM Dark Room	1	363	363	
7.1.9	Staff Area	0.5	363	182	
	Subtotal - Organic Chemistry			**5445**	**6041**

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.1
Room Name: Sample Receiving/Storage
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Large room with multiple refrigerators for short-term sample storage

Utilization

Adjacencies

7.1.2 Extraction
7.1.5/6 VOC

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Double Door Refrigerator	Helmer iLR256	59.25 x 38.5 x 79.5	F		115V, 15A	Em	New
1	Computer/Printer			B				
4	Carts			F				
1	Zebra Printer			B				
	Balance?							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Could have walk-in refrigerators, or large room with multiple refrigerators

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.2
Room Name: Extraction Lab
Number of Spaces Required: 3
NASF Per Space: 363
Total NASF: 1,089
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

Prep
Sample Receiving / Storage

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Triple Basin Sink (Elkay)	SS8354LR	102 x 27.5		HCW, DI			New
2	Glassware Washer/Dryer	Labconco	24.1 x 27.4 x 35	UC	HCW, DI, Drain	115V, 16 A		New
1	Drying Rack							
1	Handwashing Sink							
2	8' Fume Hood				LA, N2, CW			
4	6' Fume Hood				N2, CW, DI (2 H			
2+	Snorkels		6" Dia		Center Island			
4	Solid Phase Extraction	SPEDX		B	Exhaust		UPS	
2	Turbovap			B	Exhaust	Nitrogen		
1	SE Vap			Hood				
1	ME Vap			Hood		Nitrogen		
1	Soil Oven							
2	Drying Oven							
1	Muffle Oven							
1	Balance (Pan)							
2	Computer for SPE							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	●
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	Acid Trap at Dirty Sink
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	●
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: 2 large 8' Hoods, 4-6 ft Hoods, Dishwashers - Isolated from VOC

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.3
Room Name: Sample Prep/Extraction Storage
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

7.1.4 Instrument Room
7.1.2 Extraction

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Analytical Balance							
1	Refrigerator (Double Door), Standards	Helmer iLR256	59.25 x 38.5 x 79.5	F		115V, 15A	Em	New
1	Freezer (-20), Standards							
2	Refrigerator, Extracts	Single Door						
1	Freezer (-20), Extracts							
2	Fume Hoods	6'						

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	●
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.4
Room Name: Instrument Room
Number of Spaces Required: 3
NASF Per Space: 363
Total NASF: 1,089
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

7.1.3 Sample Prep/Extraction Storage

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
3	GCMS		6' Spacing - min.		Exhaust	120V	UPS	
3	Computers					120V		
10	GC				Exhaust	120V	UPS	

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	●
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	●
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.5
Room Name: VOC Prep
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

7.1.6 VOC Instrument Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Refrigerator (Double Door), Samples	Helmer iLR256	59.25 x 38.5 x 79.5	F		115V, 15A	Em	New
1	Freezer (-20), Standards						Em	New
2	Ovens, Glassware Drying							
1	Fume Hood				Air, DI			

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	●
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Remarks: Could be with VOC Instrument

Notes: Fzr for Standards, Ref, Hood, Sink w/ Ultrapure Water, Bench 2 Ovens, Sink

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.6
Room Name: VOC Instrument Room
Number of Spaces Required: 2.5
NASF Per Space: 363
Total NASF: 908
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

7.1.5 VOC Prep

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	GCMS w/ Autosampler		6' between Instruments	B	t, Chiller, Pump		UPS	
4	Computer - with GCMS			B				
1	TCLP			B				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	Helium
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	●
Isolated Ground Outlets	●
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: 4 GCMS's w/ Autosampler, Prep and Instrument could be in the same room

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.7
Room Name: EM Lab
Number of Spaces Required: 2.5
NASF Per Space: 363
Total NASF: 908
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

4.1.3 Glashwashing/Sterilizing
7.1.8 EM Dark Room
Customer Service

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
3	Incubator			F			Em	New
1	Incubator, Small			B				
3	Computer			B				
3	Waterbath, Large			B	Drain, DI			
1	Autoclave		20x20x37	F				
1	Balance (near the small Incubator)			B				
1	Quant. Tray Sealer			B				
1	Refrigerator, Double Door	Helmer iLR256	59.25 x 38.5 x 79.5	F		115V, 15A	Em	New
1	Milli-Q	Type 1 Ultrapur		B/W	DI			
1	Zebra Printer			B				
1	Printer			B				
1	Weight Scale			B				
1	Legionella Incubator (potable)			B				
1	Legionella Incubator (non-potable)			B				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	Milli-Q
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	
LED Lighting	
Dimming	

Remarks:

Notes: Large, Deep sink with DI

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	
Painted CMU	
Ceilings	
Acoustical Tile	
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.8
Room Name: EM Dark Room
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

PCR Extraction
No Windows
7.1.7 EM Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Fume Hood		6 foot	F				New
1	Refrigerator			F				
1	Freezer (-20)			F				
2	Computers			B				
1	Zebra Printer			B				
1	Printer			B				
1	Waterbath, Small			B				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	●
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	Vacuum
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Near PCR Extraction 1 Hoods ideally

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 7.1
Area Name: Organic Chemistry
Room Number: 7.1.9
Room Name: Staff Area
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Erin Harvey

Goals, Objectives and Activities of Spaces

Space within lab zone for staff to meet and discuss work outside of Lab space.

Utilization

Organic Chemistry Staff

Adjacencies

O Chem Lab Space

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Touchdown Desks	Sit-to-Stand	4' x 2' x 30"	F		120V		New
1	Conference Table	4 Person		F				New
1	Marker Board			W				New
1	TV Monitor			W		120V		New

DESIGN CRITERIA

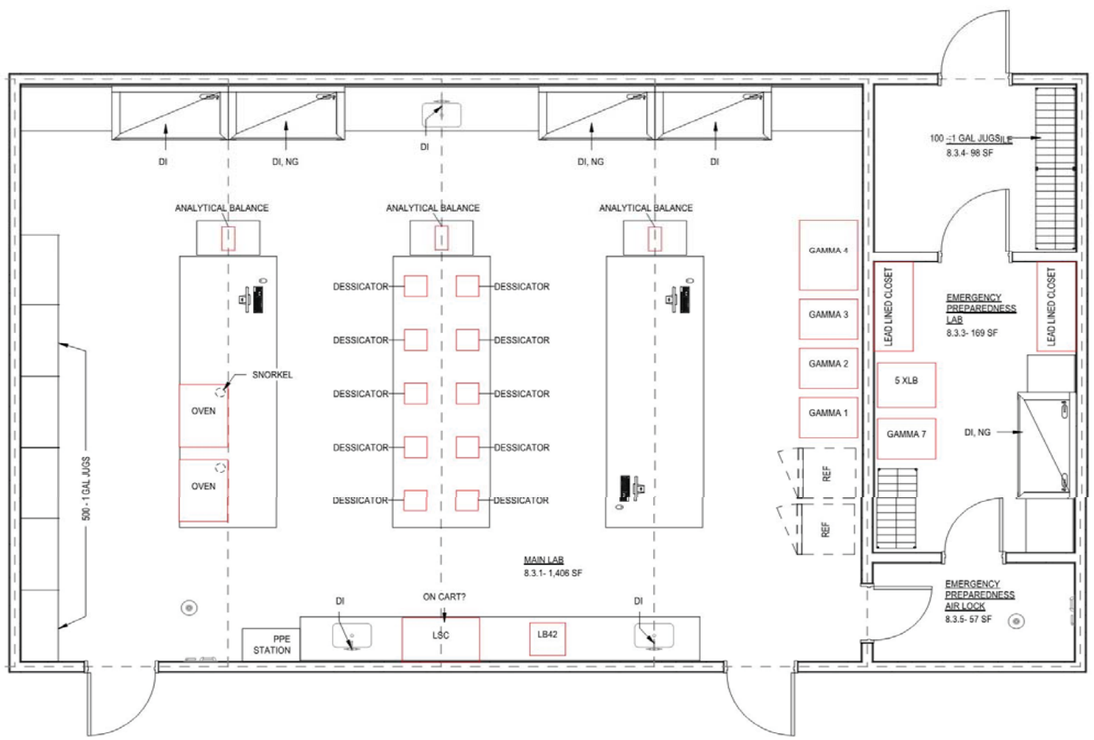
Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	●
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DIAGRAM



PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
8.1	**Inorganic Chemistry**				
8.1.1	Wet Lab	5	363	1815	
8.1.2	Testing Lab	1	363	363	
8.1.3	Shared Instrument Lab	4.5	363	1634	
8.1.4	Chiller Room	0.5	363	182	
8.1.5	Sample Prep	0	363	0	
8.1.6	Sample Storage	1	363	363	
8.1.7	Staff Area (All Inorganic)	1	363	363	
8.2	**Chemical Terrorism**				
8.2.1	CT Instrument Lab	2	363	726	
8.2.2	Prep Lab	1.33	363	483	
8.2.3	Lab Storage	0.67	363	243	
8.2.4	Freezer Room	0.5	363	182	
8.3	**Radiochemistry**				
8.3.1	Main Lab	3	363	1089	
8.3.2	Sample Prep Lab	1	363	363	
8.3.3	Emergency Preparedness Lab	1	363	363	
8.3.4	Emergency Preparedness Hot Door/Air Lock	0.5	363	182	
8.3.5	Emergency Preparedness Hot Door/Air Lock	0.33	363	120	
8.3.6	Lab Storage	0.5	363	182	
	Subtotal - Inorganic Chemistry			**8650**	**8474**

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.1
Room Name: Wet Lab
Number of Spaces Required: 5
NASF Per Space: 363
Total NASF: 1,815
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

8.1.6 Ref Storage
8.1.2 Testing Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Single Door Ref, Standards			F			Em	New
	Millipure			B/W	DI			
	Turbidity				sink			
2	TOC Analyzers w/ Computer			B			UPS	
1	Quattro/Tecan			B			UPS	
	Computer				Data			
	TSS			B	Vacuum			
3	Chemical Fume Hood							
	Autotitrator							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	●
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: 2 Hoods (Digestion), 1 Reagent Prep Hood, 2 TOC Analyzers, Quattro, Autotitrater, TSS, Oven, Include Sample Preservation

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.2
Room Name: Testing Lab
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

8.1.1 Wet Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Ion Chromatograph			B			?	
2	Computer			B				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Anions, 4 - Ion Chromatography, 2 Computers

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.3
Room Name: Shared Instrument Lab
Number of Spaces Required: 4.5
NASF Per Space: 363
Total NASF: 1,634
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

DBS to be discontinued, Acid Storage under hood, many specialty gasses

Adjacencies

8.1.2 Testing Lab
8.1.1 Wet Lab
8.1.4 Chiller Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	ICP-OES + Compter				Air		Ups	
3	ICP-MS + Computer				Exhaust		UPS	
1	Mercury AA + Computer				Exhaust		UPS	
1	Centrifuge, Large			B		120V		
1	Refrigerator					120V	EM	New
1	Millipore				DI			
3	Fume Hood		6'		Acid Storage			

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	●
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	●
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Inorganic Chem, CT, Blood Lead (3-ICPMS, Hood, DBS Puncher & Liquid Prep Handler (could move to Health Chem), Large Benchtop Centrifuge, ICPOES, 3 6' Hoods (Mercury Digestion (smaller Containment Hood), Blood Prep, Reagent Prep)

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.4
Room Name: Chiller Room
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Chillers for the ICPMS and the ICPOES

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Chiller		4					
	Storage							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: 4 Chillers

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.6
Room Name: Sample Storage
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Add Canopy Hood above Sink

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Double Sink with Drainboards	SS8236LR	84 x 27.5	F	HCW			
6	Double Door, Samples	Helmer iLR256	59.25 x 38.5 x 79.5	F		115V, 15A	Em	New
1	Metro Shelving							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	●
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks: Canopy Hood over Sink

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Add the Cold Storage currently in Wet Lab and TOC Storage/Waste, Acid Neutralization Sink

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.1
Area Name: Inorganic Chemistry
Room Number: 8.1.7
Room Name: Staff Area (All Inorganic)
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person:

Goals, Objectives and Activities of Spaces

Space within lab zone for staff to meet and discuss work outside of Lab space.

Utilization

Inorganic Chem Staff

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
8	Touchdown Desks	sit-to-stand	4' x 2' x 30"	F		120V		New
1	Conference Table	4 person		F				New
1	Marker Board			W				New
1	TV Monitor			W		120V		New

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data ●
- TV / Video ●
- LED Lighting ●
- Dimming

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive ●
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile ●
  - Carpet
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.2
Area Name: Chemical Terrorism
Room Number: 8.2.1
Room Name: CT Instrument Lab
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 726
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
3	GC			B				
1	LCMS			B				
1	LCMS			F				
2	LCMS Computer							
1	Printer, LCMS							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	●
Electrical Services	
120V, 20A, 1 Phase	
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: 3 GC, 2 LCMS,

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	●
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	●
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.2
Area Name: Chemical Terrorism
Room Number: 8.2.2
Room Name: Prep Lab
Number of Spaces Required: 1.33
NASF Per Space: 363
Total NASF: 483
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Biosafety Cabinet (Labconco)	Class II, Type C	78.2 x 32.7 x 91.7	F		100V, 12A	Em	New
1	Janus Platform w/ Computer			B				

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water ●
- Lab Cold Water ●
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash ●
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet ●
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power ●
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting ●
- Dimming

Remarks:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No ●
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative ●
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy ●
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

Notes: 2 BSC's C1, Flammable Storage Cabinet, Acid Cabinet, Liquid Handler (Janus), 1 Sink

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.2
Area Name: Chemical Terrorism
Room Number: 8.2.3
Room Name: Lab Storage
Number of Spaces Required: 0.67
NASF Per Space: 363
Total NASF: 243
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.2
Area Name: Chemical Terrorism
Room Number: 8.2.4
Room Name: Freezer Room
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
3	Ultra Low Freezers	SX Series 600-B	34.4 x 37.6 x 78	F		115V, 8.5/15A	Em	New
1	Refrigerator						Em	New
	Storage Shelving							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: 3 Freezers Ultra Low + 1 Future

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.3
Area Name: Radiochemistry
Room Number: 8.3.1
Room Name: Main Lab
Number of Spaces Required: 3
NASF Per Space: 363
Total NASF: 1,089
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

8.3.5 Emergenct Preparedness Air Lock
8.3.3 Emergency Preparedness Lab

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Fume Hoods		6'	B	2-NG, 4-DI			New
3	Analytical Balances			B		120V		Ex
2	Ovens			B	Exhaust			Ex
3	Computers			B				
1	Gamma 1			F	LN2			Ex
1	Gamma 2			F	LN2			Ex
1	Gamma 3			F	LN2			Ex
1	Gamma 4			F	LN2			Ex
2	Refrigerators			F		120V		New
1	LB42			B				Ex
1	LSC (on cart?)			B				Ex
6	Tall Storage Cabinets			F				New

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash ●
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.3
Area Name: Radiochemistry
Room Number: 8.3.2
Room Name: Sample Prep Lab
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Benchtop 10 Dessicators (15 ft) within Main Lab

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.3
Area Name: Radiochemistry
Room Number: 8.3.3
Room Name: Emergency Preparedness Lab
Number of Spaces Required: 1
NASF Per Space: 363
Total NASF: 363
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Fume Hood		6'	B	DI, NG			New
2	Leadlined Closets		5'					?
1	5 XLB							
1	Gamma 7							
1	Metro Rack							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.3
Area Name: Radiochemistry
Room Number: 8.3.4
Room Name: Emergency Preparedness Hot Door/Air Lock
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Metro Racks		54 x 24	F				

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number:	8.3
Area Name:	Radiochemistry
Room Number:	8.3.5
Room Name:	Emergency Preparedness Hot Door/Air Lock
Number of Spaces Required:	0.33
NASF Per Space:	363
Total NASF:	120
Contact Person:	Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash ●
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Personnel airlock between Main Lab and Hot Lab

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes ●
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 8.3
Area Name: Radiochemistry
Room Number: 8.3.6
Room Name: Lab Storage
Number of Spaces Required: 0.5
NASF Per Space: 363
Total NASF: 182
Contact Person: Richard Denton

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Metro Shelving Racks		24 x 60 x 72	F				

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: 500 1 Gal Jug Storage

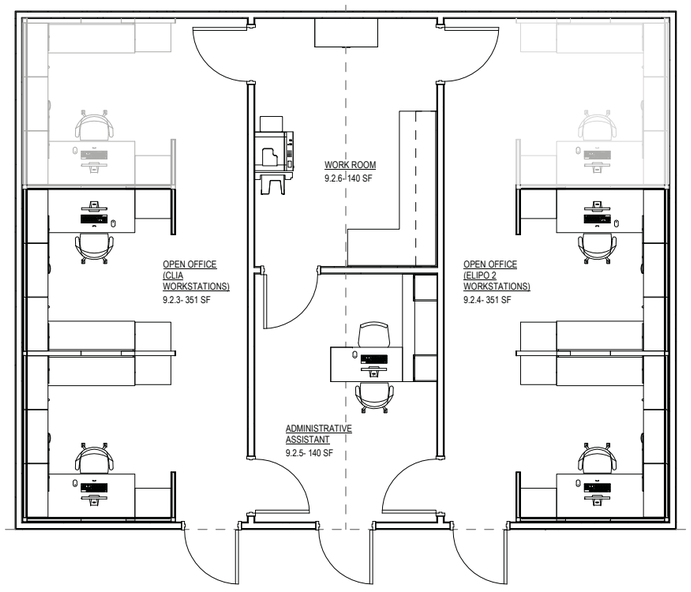
Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

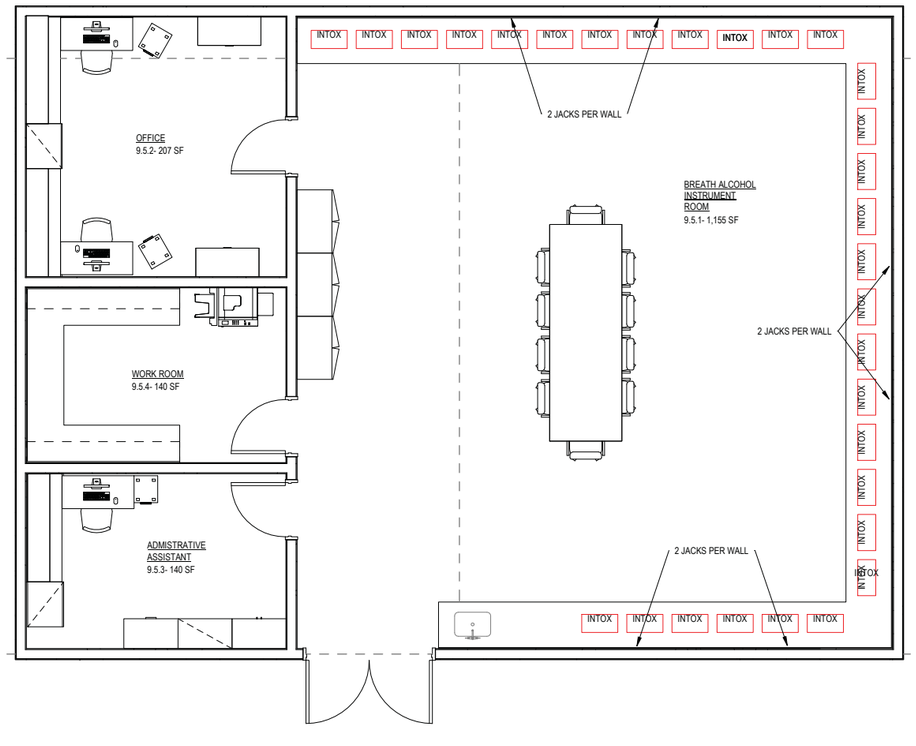
Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DIAGRAM





PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
9.1	**Administrative Suite**				
9.1.1	Director Office	1	350	350	
9.1.2	Safety Office	1	350	350	
9.1.3	Administrative Assistant	1	225	225	
9.1.4	Conference Room	20	25	500	
9.1.5	Work Room	1	150	150	
9.1.6	Reception and Waiting	5	35	175	
9.2	**Business & CLIA/ELIPO Office**				
9.2.1	Fiscal Manager Office	1	150	150	
9.2.2	Purchasing Office	1	150	150	
9.2.3	Open Office (CLIA 2 workstations)	3	75	225	
9.2.4	Open Office (ELIPO 2 workstations)	3	75	225	
9.2.5	Administrative Assistant	1	150	150	
9.2.6	Work Room	1	150	150	
9.3	**Quality Assurance**				
9.3.1	Training Coordinator Office	1	225	225	
9.3.2	Section Chief Office	1	350	350	
9.3.3	Training Lab	2	363	725	
9.3.4	Training/Conference Room	80	25	2000	
9.4	**IT/LIMS**				
9.4.1	LIMS Admin Office	2	150	300	
9.4.2	IT Work Room/open office	1	300	300	
9.4.3	IT Storage	1	225	225	
9.4.4	Server Room	1	160	160	
9.5	**Breath Alcohol**				
9.5.1	Breath Alcohol Instrument Room	1	1200	1200	
9.5.2	Office	3	75	225	
9.5.3	Administrative Assistant	1	150	150	
9.5.4	Work Room	1	150	150	
9.6	**Laboratory Offices**				
9.6.1	Health Section Chief Office	1	350	350	
9.6.2	Environment Section Chief Office	1	350	350	
9.6.3	Health Chemistry Office	1	150	150	
9.6.4	Health Chemistry Shared Office	10	75	750	
9.6.5	Virology/Serology Office	1	150	150	
9.6.6	Virology/Serology Shared Office	6	75	450	
9.6.7	Diagnostic Microbiology Office	1	150	150	
9.6.8	Diagnostic Microbiology Shared Office, Small	4	100	400	
9.6.9	Diagnostic Microbiology Shared Office, Large	8	75	600	
9.6.10	Organic Chemistry Office	1	150	150	
9.6.11	Organic Chemistry Shared Office	6	75	450	
9.6.12	VOC/EM Shared Office	6	75	450	
9.6.13	Inorganic Chemistry Office	1	150	150	
9.6.14	Inorganic Chemistry Shared Office	5	75	375	
9.6.15	Chemical Terrorism Shared Office	3	100	300	
9.6.16	Radiochemistry Shared Office	4	100	400	
9.7	**Shared Space**				
9.7.1	Break Room	80	25	2000	
9.7.2	Outdoor Break Area	0	400	0	
9.7.3	Security	1	150	150	
9.7.4	Lobby/Waiting/Museum	1	600	600	
9.7.5	Work Room	2	150	300	
9.7.6	Locker Room	2	150	300	
9.7.7	Shower	2	75	150	
9.7.8	Fitness Room	1	600	600	
9.7.9	Conference Room	16	25	400	
9.7.10	Huddle Room	6	100	600	
9.7.11	Wellness/Mother's Room	1	75	75	
9.7.12	Storage	1	900	900	
	Subtotal - Offices and Building Support			**20510**	**17745**

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.1
Room Name: Director Office
Number of Spaces Required: 1
NASF Per Space: 350
Total NASF: 350
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.2 Safety Office
9.1.3 Administrative Assistant
9.1.4 Conference Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture							
1	Collaboration Table							
4	Conference Chairs							
1	TV/Monitor							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.2
Room Name: Safety Office
Number of Spaces Required: 1
NASF Per Space: 350
Total NASF: 350
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.1 Director Office
9.1.4 Conference Room
9.1.3 Administrative Assistant

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture							
1	Collaboration Table							
4	Conference Chairs							
1	TV/Monitor							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.3
Room Name: Administrative Assistant
Number of Spaces Required: 1
NASF Per Space: 225
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.1 Director Office
9.1.2 Safety Office
9.1.6 Reception and Waiting
9.1.5 Work Room
9.1.4 Conference Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit-to-Stand Office Furniture							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.4
Room Name: Conference Room
Number of Spaces Required: 20
NASF Per Space: 25
Total NASF: 500
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.1 Director Office
9.1.2 Safety Office
9.1.3 Administrative Assistant

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
20	Conference Room Chairs			F				
	Conference Table							
2	Monitors, Large					120V		New
1	Video Conferencing Technology							
4	Glass Marker Boards		8 x 4					

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	●

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.5
Room Name: Work Room
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.3 Administrative Assistant

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Multi-Function Copier				Data	120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.1
Area Name: Administrative Suite
Room Number: 9.1.6
Room Name: Reception and Waiting
Number of Spaces Required: 5
NASF Per Space: 35
Total NASF: 175
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1.3 Administrative Assistant
9.1.4 Conference Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
5	Chairs, Waiting							
2	Side Tables							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	●
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.1
Room Name: Fiscal Manager Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1 Administrative Suite

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit to Stand Office							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Near Director Office

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.2
Room Name: Purchasing Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.1 Administrative Suite

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit to Stand Office							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Near Director Office

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.3
Room Name: Open Office (CLIA 2 workstations)
Number of Spaces Required: 3
NASF Per Space: 75
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.2.5 Administrative Assistant
9.2.6 Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Workstations (Sit-to-Stand)				Data	120V		New
1	Future Workstation				Data	120V		

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: 2 CLIA

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.4
Room Name: Open Office (ELIPO 2 workstations)
Number of Spaces Required: 3
NASF Per Space: 75
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.2.5 Administrative Assistant
9.2.6 Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Workstations (Sit-to-Stand)				Data	120V		New
1	Future Workstation				Data	120V		

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks: Space for future growth

Notes: 2 ELIPO

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.5
Room Name: Administrative Assistant
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

In between CLIA and ELIPO
9.2.3 CLIA
9.2.4 ELIPO
9.2.6 Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit-to-Stand Office Furniture							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data ●
- TV / Video ●
- LED Lighting ●
- Dimming

Remarks:

Notes: Between CLIA/ELIPO

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet ●
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.2
Area Name: Business & CLIA/ELIPO Office
Room Number: 9.2.6
Room Name: Work Room
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Active files, printers

Adjacencies

ELIPO
CLIA
Administrative Assistant

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Multi-Function Copier				Data	120V		New
	File Cabinet							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Near Admin Asst

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.3
Area Name: Quality Assurance
Room Number: 9.3.1
Room Name: Training Coordinator Office
Number of Spaces Required: 1
NASF Per Space: 225
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit-to-Stand Office Furniture							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.3
Area Name: Quality Assurance
Room Number: 9.3.2
Room Name: Section Chief Office
Number of Spaces Required: 1
NASF Per Space: 350
Total NASF: 350
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit-to-Stand Office Furniture							
1	Collaboration Table							
6	Conference Chairs							
1	TV/Monitor							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data ●
- TV / Video ●
- LED Lighting ●
- Dimming

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet ●
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.3
Area Name: Quality Assurance
Room Number: 9.3.3
Room Name: Training Lab
Number of Spaces Required: 2
NASF Per Space: 363
Total NASF: 725
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Space for lab staff training and also capable of being used as an overflow lab for outbreaks. Ideal to be able to utilize as a BSL 2+ facility

Utilization

Shared space for all lab groups

Adjacencies

Central Location
Virology/Serology
Diagnostic Micro

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Fume Hood			F				New
1	Biosafety Cabinet	Type II A2		F				New
6	Microscope							Ex
	Centrifuge			B				
5	Lab Tables (adjustible height)		60 x 30 x 28-37	F				New
	Monitor							
	Projector/AV							
	Cabinet Storage							
10	Lab Stools	Armless						

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	●
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	●
Lab Cold Water	●
Chilled Water	
House Pure Water	●
Floor Drain	
Safety Shower/ Eye Wash	●
Other	
Hoods	
Chemical Fume Hood	●
Biological Safety Cabinet	●
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks: BSL2+

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	●
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	●
Acids	●
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	●
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

Notes: Could use as outbreak lab. Place for 10 students and 1 instructor. Instructor space. No arms on lab stools.

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.3
Area Name: Quality Assurance
Room Number: 9.3.4
Room Name: Training/Conference Room
Number of Spaces Required: 80
NASF Per Space: 25
Total NASF: 2,000
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Training space and large conference room for the entire KDHE staff. The room can be dividable and used as two separate training rooms.

Adjacencies

9.7.1 Break Room
9.7.3 Security
9.7.4 Lobby/Waiting/Museum

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
80	Training Chairs							
40	Training Tables - Foldable							
	TV Monitors/Projection Screen							
	Glass Marker Boards							
	Skyfold Wall Partition System							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	●

Remarks:

Notes: Dividable into two rooms

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	●
Ceiling Height	10'-0" Minimum

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.4
Area Name: IT/LIMS
Room Number: 9.4.1
Room Name: LIMS Admin Office
Number of Spaces Required: 2
NASF Per Space: 150
Total NASF: 300
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.4.2 IT Workroom / Open Office
9.4.3 IT Storage

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Sit to Stand Office							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Edge of Lab Space/Office Space

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.4
Area Name: IT/LIMS
Room Number: 9.4.2
Room Name: IT Work Room/open office
Number of Spaces Required: 1
NASF Per Space: 300
Total NASF: 300
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.4.1 LIMS Admin Office
9.4.3 IT Storage
9.4.4 Server Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Touchdown Work Spaces				Data	120V		New
3	Work Benches		24 x 60 x 36		Data	120V		New
2	Tall Storage Cabinets		36 x 16 x 72					New
4	Stools (height adj)							New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: 2 small Touchdown Spaces

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.4
Area Name: IT/LIMS
Room Number: 9.4.3
Room Name: IT Storage
Number of Spaces Required: 1
NASF Per Space: 225
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.4.1 LIMS Admin Office
9.4.2 IT Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
17	Storage Racks		36 x 18 x 72	F				

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.4
Area Name: IT/LIMS
Room Number: 9.4.4
Room Name: Server Room
Number of Spaces Required: 1
NASF Per Space: 160
Total NASF: 160
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.4.1 LIMS Admin Office

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Server Rack			F	Data		UPS	New
2	Switch Rack			F	Data		UPS	New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	●
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	●
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	
68-75 Degrees F +/- 2 Deg's F	●
Other	
Air Recirculate	
Yes	
No	●
Humidity Control	
Ambient	
Other	●
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	●
Noise Producing	●
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.5
Area Name: Breath Alcohol
Room Number: 9.5.1
Room Name: Breath Alcohol Instrument Room
Number of Spaces Required: 1
NASF Per Space: 1,200
Total NASF: 1,200
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

cabinets above and open underneath for the boxes

Adjacencies

9.5.2 Office
9.5.3 Administrative Assistant
9.5.4 Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
30	Intox							
1	Conference Room Table							
10	Chairs							
	Tall Storage Cabinets							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Include Customer Training Laboratory

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.5
Area Name: Breath Alcohol
Room Number: 9.5.2
Room Name: Office
Number of Spaces Required: 3
NASF Per Space: 75
Total NASF: 225
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.5.1 Breath Alcohol Instrument Room
9.5.3 Administrative Assistant
9.5.4 Work Room
9.7.10 Huddle Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit to Stand Office							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data ●
- TV / Video ●
- LED Lighting ●
- Dimming

Remarks:

Notes: Can be shared

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet ●
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.5
Area Name: Breath Alcohol
Room Number: 9.5.3
Room Name: Administrative Assistant
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.5.1 Breath Alcohol Instrument Room
9.5.2 Office
9.5.4 Work Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Sit-to-Stand Office Furniture							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ●
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase ●
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone ●
- Data ●
- TV / Video ●
- LED Lighting ●
- Dimming

Remarks:

Notes: In Office

Environmental Conditions
- Temperature
  - 68-75 Degrees F ●
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes ●
  - No
- Humidity Control
  - Ambient ●
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet ●
- Walls
  - Painted Drywall ●
  - Painted CMU
- Ceilings
  - Acoustical Tile ●
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.5
Area Name: Breath Alcohol
Room Number: 9.5.4
Room Name: Work Room
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.5.1 Breath Alcohol Instrument Room
9.5.2 Office
9.5.3 Administrative Assistant

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Multi-Function Copier				Data	120V		New
	File Cabinet							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	●
TV / Video	
LED Lighting	●
Dimming	

Remarks:

Notes: Printer/files near Admin

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.1
Room Name: Health Section Chief Office
Number of Spaces Required: 1
NASF Per Space: 350
Total NASF: 350
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.2
Room Name: Environment Section Chief Office
Number of Spaces Required: 1
NASF Per Space: 350
Total NASF: 350
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.3
Room Name: Health Chemistry Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Michelle J. Mills

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number:	9.6
Area Name:	Laboratory Offices
Room Number:	9.6.4
Room Name:	Health Chemistry Shared Office
Number of Spaces Required:	10
NASF Per Space:	75
Total NASF:	750
Contact Person:	Michelle J. Mills

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
10	Office Workstation (Sit-to-Stand)		9' x 8'					

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.5
Room Name: Virology/Serology Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Add 1 @ 100

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.6
Room Name: Virology/Serology Shared Office
Number of Spaces Required: 6
NASF Per Space: 75
Total NASF: 450
Contact Person: Amanda Bradley

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.7
Room Name: Diagnostic Microbiology Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.8
Room Name: Diagnostic Microbiology Shared Office, Small
Number of Spaces Required: 4
NASF Per Space: 100
Total NASF: 400
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number:	9.6
Area Name:	Laboratory Offices
Room Number:	9.6.9
Room Name:	Diagnostic Microbiology Shared Office, Large
Number of Spaces Required:	8
NASF Per Space:	75
Total NASF:	600
Contact Person:	Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
8	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.10
Room Name: Organic Chemistry Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.11
Room Name: Organic Chemistry Shared Office
Number of Spaces Required: 6
NASF Per Space: 75
Total NASF: 450
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Window looking into Instrument Room one @ 100 SF

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.12
Room Name: VOC/EM Shared Office
Number of Spaces Required: 6
NASF Per Space: 75
Total NASF: 450
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
6	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Near CT as well

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.13
Room Name: Inorganic Chemistry Office
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
1	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.14
Room Name: Inorganic Chemistry Shared Office
Number of Spaces Required: 5
NASF Per Space: 75
Total NASF: 375
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
5	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: 1-100 SF

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.15
Room Name: Chemical Terrorism Shared Office
Number of Spaces Required: 3
NASF Per Space: 100
Total NASF: 300
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
3	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.6
Area Name: Laboratory Offices
Room Number: 9.6.16
Room Name: Radiochemistry Shared Office
Number of Spaces Required: 4
NASF Per Space: 100
Total NASF: 400
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Office Furniture (Sit-to-Stand)			F		120V		New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	
Carpet	●
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.1
Room Name: Break Room
Number of Spaces Required: 80
NASF Per Space: 25
Total NASF: 2,000
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.7.2 Outdoor Break Area
9.3.4 Training/Conference Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Dining Chairs							
	Tables							
	Booths							
	Refrigerators							
	Freezers							
	Dishwashers							
	Vending							
	Refuse Station							
	Television							
	Coffee Maker							
	Microwaves							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	●
12 Hours (6:00 - 6:00)	
24 Hours	
Other	
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Potable Hot Water	●
Potable Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	●
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	
Data	
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.2
Room Name: Outdoor Break Area
Number of Spaces Required: 0
NASF Per Space: 400
Total NASF: 0
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

9.7.1 Break Room

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
4	Outdoor Tables with Umbrella							
16	Outdoor Chairs							
1	Grill							
2	Waste Bin							

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: Secure space outside for 12-16 people

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet ____
- Walls ____
  - Painted Drywall ____
  - Painted CMU ____
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height ____

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.3
Room Name: Security
Number of Spaces Required: 1
NASF Per Space: 150
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Area to control individuals entering the facility and for monitoring security cameras throughout the facility

Utilization

KDHE security personnel

Adjacencies

Building Public Entry
9.7.4 Lobby/Waiting/Museum

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
	Security Monitors							
	Workstation							
	Files							
	Visitor Sign-in System							

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	●
Other	
Security Required	●
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Lab Cold Water	
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	●
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	●
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes:

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.4
Room Name: Lobby/Waiting/Museum
Number of Spaces Required: 1
NASF Per Space: 600
Total NASF: 600
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: Large Lobby - displays (interactive)

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.5
Room Name: Work Room
Number of Spaces Required: 2
NASF Per Space: 150
Total NASF: 300
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: 1 for Health and 1 for Environment

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.6
Room Name: Locker Room
Number of Spaces Required: 2
NASF Per Space: 150
Total NASF: 300
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: For Fitness use - 1 men 1 women

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.7
Room Name: Shower
Number of Spaces Required: 2
NASF Per Space: 75
Total NASF: 150
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.8
Room Name: Fitness Room
Number of Spaces Required: 1
NASF Per Space: 600
Total NASF: 600
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Area for staff to exercize before, during and after work hours.

Utilization

KDHE Staff

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.
2	Treadmill			F		120V		New
2	Ellipticles			F		120V		New
1	Bike			F		120V		New
1	Freeweights			F				New
1	Strength Training System	Apollo		F				New
2	Mirrors			W				New
1	Culligan Water Cooler			F				New

DESIGN CRITERIA

Hours of Operation and Security	
9 Hours (8:00 - 5:00)	
12 Hours (6:00 - 6:00)	
24 Hours	
Other (5:00-8:00)	●
Security Required	
Laboratory and General Services	
Laboratory Gas	
Laboratory Air	
Laboratory Nitrogen	
Laboratory Vacuum	
Cylinder Gases	
Lab Hot Water	
Potable Cold Water	●
Chilled Water	
House Pure Water	
Floor Drain	
Safety Shower/ Eye Wash	
Other	
Hoods	
Chemical Fume Hood	
Biological Safety Cabinet	
Radioisotope Hood	
Laminar Flow Hood	
Canopy	
Snorkel	
Electrical Services	
120V, 20A, 1 Phase	●
208V	
Special	
Misc.	
Emergency Power	
UPS Power	
Isolated Ground Outlets	
Telephone	●
Data	
TV / Video	●
LED Lighting	●
Dimming	

Remarks:

Notes: Treadmills, cycle, free weights, elliptical

Environmental Conditions	
Temperature	
68-75 Degrees F	●
68-75 Degrees F +/- 2 Deg's F	
Other	
Air Recirculate	
Yes	●
No	
Humidity Control	
Ambient	●
Other	
Air Pressure	
Positive	
Negative	●
Air Filtration (HEPA)	
Supply	
Exhaust	
Chemical Use and Storage	
Solvents	
Acids	
Radioisotopes	
Carcinogens	
Hazardous Waste Storage	
Equipment	
Vibration Sensitive	
Light Sensitive	
Vibration Producing	
Heat Producing	
Noise Producing	
Interior Finishes	
Floors	
Troweled Epoxy	
Seamless Sheet	
Rubber Tile	●
Carpet	
Walls	
Painted Drywall	●
Painted CMU	
Ceilings	
Acoustical Tile	●
Drywall	
Ceiling Height	

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.9
Room Name: Conference Room
Number of Spaces Required: 16
NASF Per Space: 25
Total NASF: 400
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Also used as break room

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.10
Room Name: Huddle Room
Number of Spaces Required: 6
NASF Per Space: 100
Total NASF: 600
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.11
Room Name: Wellness/Mother's Room
Number of Spaces Required: 1
NASF Per Space: 75
Total NASF: 75
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 9.7
Area Name: Shared Space
Room Number: 9.7.12
Room Name: Storage
Number of Spaces Required: 1
NASF Per Space: 900
Total NASF: 900
Contact Person: Jennifer Evans

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes:

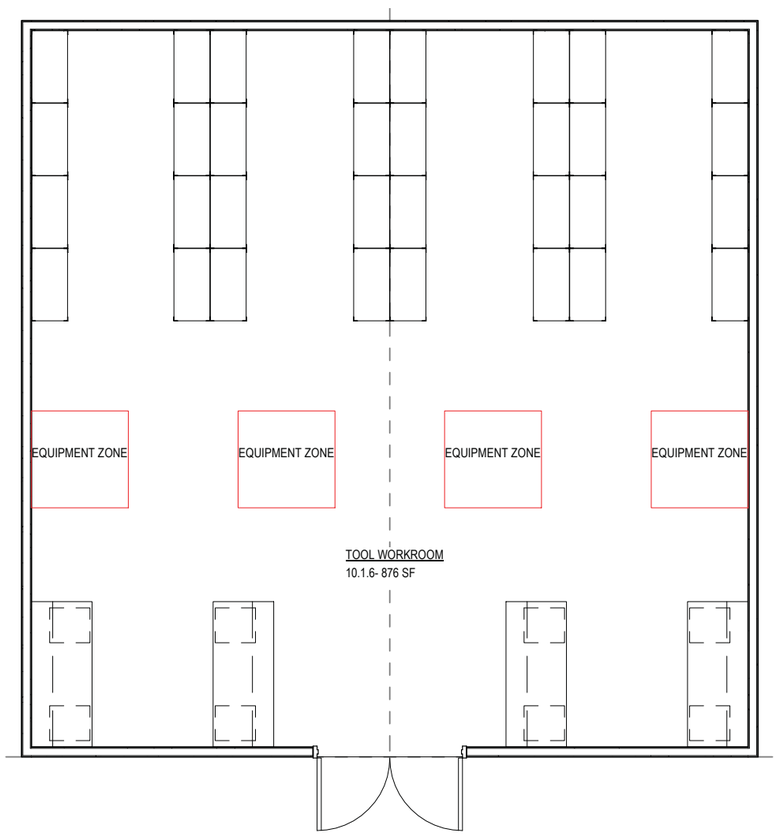
Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

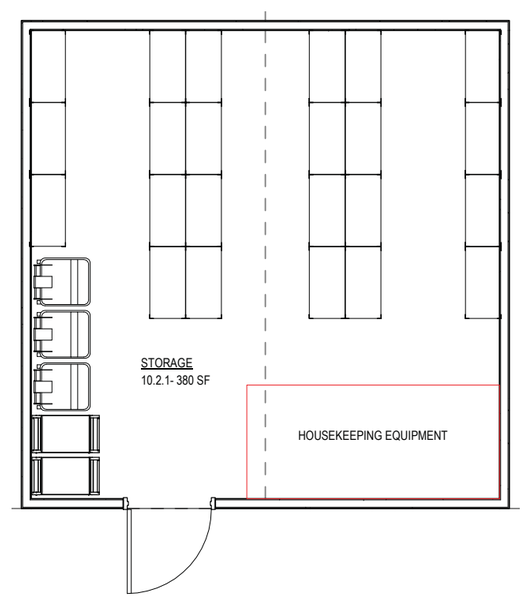
Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DIAGRAM





PROPOSED ROOM LIST

Room No.	Room Name	Qty	NASF	Total Programmed NASF	Existing NASF
10.1 Maintenance					
10.1.1	Shared Office	3	75	225	
10.1.2	Electrical Shop	1	900	900	
10.1.3	Manager Office	1	160	160	
10.1.4	Personnel Lockers	2	0	0	
10.1.5	Operator Control Room	1	100	100	
10.1.6	Tool Workroom	1	900	900	
10.1.7	Break Area (Shared)	10	25	250	
10.1.8	Restroom, Single Stall	2	75	150	
10.2 Housekeeping					
10.2.1	Storage	1	400	400	
10.2.2	Housekeeping Closet	3	50	150	
10.2.3	Laundry	1	100	100	
10.2.4	Supervisor Office	1	160	160	
10.2.5	Shared Office	2	75	150	
Subtotal - Building Support/Maintenance and Housekeeping				**3645**	**5369**

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.1
Room Name: Shared Office
Number of Spaces Required: 3
NASF Per Space: 75
Total NASF: 225
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: 2 Workstations, Tool Storage, currently about 10x10

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.2
Room Name: Electrical Shop
Number of Spaces Required: 1
NASF Per Space: 900
Total NASF: 900
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: Parts, 2 Workbenches

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.3
Room Name: Manager Office
Number of Spaces Required: 1
NASF Per Space: 160
Total NASF: 160
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.4
Room Name: Personnel Lockers
Number of Spaces Required: 2
NASF Per Space: 0
Total NASF: 0
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.5
Room Name: Operator Control Room
Number of Spaces Required: 1
NASF Per Space: 100
Total NASF: 100
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Currently in the Power Plant, local monitoring

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.6
Room Name: Tool Workroom
Number of Spaces Required: 1
NASF Per Space: 900
Total NASF: 900
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

Notes: Carpentry, Painting, Workbench, Table Saw, Cabinets, Dollies, Toolcarts, Flammable Cabinet

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.7
Room Name: Break Area (Shared)
Number of Spaces Required: 10
NASF Per Space: 25
Total NASF: 250
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

Notes: Kitchenette area, lunch, meetings, adjacent to Housekeeping Area (Shared)

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.1
Area Name: Maintenance
Room Number: 10.1.8
Room Name: Restroom, Single Stall
Number of Spaces Required: 2
NASF Per Space: 75
Total NASF: 150
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.2
Area Name: Housekeeping
Room Number: 10.2.1
Room Name: Storage
Number of Spaces Required: 1
NASF Per Space: 400
Total NASF: 400
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Flooring Machine, Vacuum Cleaners, Chemicals, Carts, Trash

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.2
Area Name: Housekeeping
Room Number: 10.2.2
Room Name: Housekeeping Closet
Number of Spaces Required: 3
NASF Per Space: 50
Total NASF: 150
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00)
- 12 Hours (6:00 - 6:00)
- 24 Hours
- Other
- Security Required

Laboratory and General Services
- Laboratory Gas
- Laboratory Air
- Laboratory Nitrogen
- Laboratory Vacuum
- Cylinder Gases
- Lab Hot Water
- Lab Cold Water
- Chilled Water
- House Pure Water
- Floor Drain
- Safety Shower/ Eye Wash
- Other

Hoods
- Chemical Fume Hood
- Biological Safety Cabinet
- Radioisotope Hood
- Laminar Flow Hood
- Canopy
- Snorkel

Electrical Services
- 120V, 20A, 1 Phase
- 208V
- Special
- Misc.
- Emergency Power
- UPS Power
- Isolated Ground Outlets
- Telephone
- Data
- TV / Video
- LED Lighting
- Dimming

Remarks:

Notes: Floor Sink, Ladder Storage, one per floor

Environmental Conditions
- Temperature
  - 68-75 Degrees F
  - 68-75 Degrees F +/- 2 Deg's F
  - Other
- Air Recirculate
  - Yes
  - No
- Humidity Control
  - Ambient
  - Other
- Air Pressure
  - Positive
  - Negative
- Air Filtration (HEPA)
  - Supply
  - Exhaust

Chemical Use and Storage
- Solvents
- Acids
- Radioisotopes
- Carcinogens
- Hazardous Waste Storage

Equipment
- Vibration Sensitive
- Light Sensitive
- Vibration Producing
- Heat Producing
- Noise Producing

Interior Finishes
- Floors
  - Troweled Epoxy
  - Seamless Sheet
  - Rubber Tile
  - Carpet
- Walls
  - Painted Drywall
  - Painted CMU
- Ceilings
  - Acoustical Tile
  - Drywall
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.2
Area Name: Housekeeping
Room Number: 10.2.3
Room Name: Laundry
Number of Spaces Required: 1
NASF Per Space: 100
Total NASF: 100
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) ____
- 12 Hours (6:00 - 6:00) ____
- 24 Hours ____
- Other ____
- Security Required ____

Laboratory and General Services
- Laboratory Gas ____
- Laboratory Air ____
- Laboratory Nitrogen ____
- Laboratory Vacuum ____
- Cylinder Gases ____
- Lab Hot Water ____
- Lab Cold Water ____
- Chilled Water ____
- House Pure Water ____
- Floor Drain ____
- Safety Shower/ Eye Wash ____
- Other ____

Hoods ____
- Chemical Fume Hood ____
- Biological Safety Cabinet ____
- Radioisotope Hood ____
- Laminar Flow Hood ____
- Canopy ____
- Snorkel ____

Electrical Services ____
- 120V, 20A, 1 Phase ____
- 208V ____
- Special ____
- Misc. ____
- Emergency Power ____
- UPS Power ____
- Isolated Ground Outlets ____
- Telephone ____
- Data ____
- TV / Video ____
- LED Lighting ____
- Dimming ____

Remarks:

Notes: Industrial Size Washer/Dryer

Environmental Conditions
- Temperature
  - 68-75 Degrees F ____
  - 68-75 Degrees F +/- 2 Deg's F ____
  - Other ____
- Air Recirculate
  - Yes ____
  - No ____
- Humidity Control
  - Ambient ____
  - Other ____
- Air Pressure
  - Positive ____
  - Negative ____
- Air Filtration (HEPA)
  - Supply ____
  - Exhaust ____

Chemical Use and Storage
- Solvents ____
- Acids ____
- Radioisotopes ____
- Carcinogens ____
- Hazardous Waste Storage ____

Equipment
- Vibration Sensitive ____
- Light Sensitive ____
- Vibration Producing ____
- Heat Producing ____
- Noise Producing ____

Interior Finishes
- Floors
  - Troweled Epoxy ____
  - Seamless Sheet ____
  - Rubber Tile ____
  - Carpet
- Walls ____
  - Painted Drywall ____
  - Painted CMU
- Ceilings ____
  - Acoustical Tile ____
  - Drywall ____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.2
Area Name: Housekeeping
Room Number: 10.2.4
Room Name: Supervisor Office
Number of Spaces Required: 1
NASF Per Space: 160
Total NASF: 160
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

ROOM DESCRIPTION

Activity Information

Area Code Number: 10.2
Area Name: Housekeeping
Room Number: 10.2.5
Room Name: Shared Office
Number of Spaces Required: 2
NASF Per Space: 75
Total NASF: 150
Contact Person:

Goals, Objectives and Activities of Spaces

Utilization

Adjacencies

EQUIPMENT SCHEDULE

Qty.	Equipment	Model #	Size W x D x H	F/B/W	Services	Elect. Power	Em. / UPS	New/ Ex.

DESIGN CRITERIA

Hours of Operation and Security
- 9 Hours (8:00 - 5:00) _____
- 12 Hours (6:00 - 6:00) _____
- 24 Hours _____
- Other _____
- Security Required _____

Laboratory and General Services
- Laboratory Gas _____
- Laboratory Air _____
- Laboratory Nitrogen _____
- Laboratory Vacuum _____
- Cylinder Gases _____
- Lab Hot Water _____
- Lab Cold Water _____
- Chilled Water _____
- House Pure Water _____
- Floor Drain _____
- Safety Shower/ Eye Wash _____
- Other _____

Hoods
- Chemical Fume Hood _____
- Biological Safety Cabinet _____
- Radioisotope Hood _____
- Laminar Flow Hood _____
- Canopy _____
- Snorkel _____

Electrical Services
- 120V, 20A, 1 Phase _____
- 208V _____
- Special _____
- Misc. _____
- Emergency Power _____
- UPS Power _____
- Isolated Ground Outlets _____
- Telephone _____
- Data _____
- TV / Video _____
- LED Lighting _____
- Dimming _____

Remarks:

Notes:

Environmental Conditions
- Temperature
  - 68-75 Degrees F _____
  - 68-75 Degrees F +/- 2 Deg's F _____
  - Other _____
- Air Recirculate
  - Yes _____
  - No _____
- Humidity Control
  - Ambient _____
  - Other _____
- Air Pressure
  - Positive _____
  - Negative _____
- Air Filtration (HEPA)
  - Supply _____
  - Exhaust _____

Chemical Use and Storage
- Solvents _____
- Acids _____
- Radioisotopes _____
- Carcinogens _____
- Hazardous Waste Storage _____

Equipment
- Vibration Sensitive _____
- Light Sensitive _____
- Vibration Producing _____
- Heat Producing _____
- Noise Producing _____

Interior Finishes
- Floors
  - Troweled Epoxy _____
  - Seamless Sheet _____
  - Rubber Tile _____
  - Carpet
- Walls _____
  - Painted Drywall _____
  - Painted CMU
- Ceilings _____
  - Acoustical Tile _____
  - Drywall _____
- Ceiling Height

APPENDIX C

PROGRAMMING QUESTIONNAIRES
PROJECT GOALS

PROGRAMMING QUESTIONNAIRES

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Shane Lahman – Lead Lab Tech (Customer Service – shipping/receiving)**

E-mail & phone: **Shane.lahman@ks.gov**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

Receiving of Health/Environment samples. Shipping (UPS WorldShip and Central Mail courier) of sampling supplies. Stockroom Management. Sort, fold and mail reports. Data enter demographics and scan forms into imaging software. Sort and file documents for long term storage.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

Large delivery from USPS 1st thing in AM. Various health/environmental/stockroom items. UPS and FedEx also bring large, varied, deliveries. Receive occasional pallets of stockroom supplies. Several private couriers deliver throughout the day. Water systems hand deliver samples frequently. Gas tanks delivered weekly. *Orders for Health sampling supplies are received via fax, e-mail or phone. Packed and fulfilled via UPS WorldShip. * Environmental submission forms are printed by the respective Unit Manager and brought to us to be shipped. Forms are scanned into a spreadsheet for tracking, then packed and shipped via Central Mail courier. Large quantity (2500+) of Coliform tests printed, packed, and sent directly with USPS, monthly.

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Lead Tech	1	1	1	1				
Tech	5	5	6	7				
Admin Asst/PT	1	1	1	1				

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space

List major rooms/areas currently occupied by this group.

Separate rooms: Main Stockroom, Paper Stockroom, Health Room, Data entry, Env Micro packing, additional storage in north wing.
Sections in main room: Health shipping, Env shipping, Env receiving, Mailing.

List, in order, the other departments or services that you consider essential to be near or adjacent:

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work. (e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)

Low humidity for reports and files.

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)

KDHE samplers occasionally come inside to access DI water. Gas tanks are presently stored in stockroom.

Sanitization
Describe the protocols and frequency for sanitizing rooms.

Health room hoods are sanitized daily.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Fishbowl stockroom software for tracking. Some orders are sent directly to the dept. on receipt, some are stored in Stockroom.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

Identify peak days and hours of operation.

Tuesday and Wednesday mornings. Large quantities of Environmental Micro submissions and newborn screenings.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

UPS WorldShip station. Folding machine. Adequate storage. Dock with lift.

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Secure access. Video monitoring of dock. Possibly a neutral truck unloading/drop off area that is still secure from the rest of the building.

Architectural Character

List three words that describe what you wish to see in your new facility.

Organized, efficient, adaptable

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.

Simple and trackable communication between departments and clients. Large, well labeled and adaptable storage area.

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.

Walk-in refrigerator. Large dock door that can be used to unload trucks directly into building. If we decide to have sections pick up samples, an easy way to alert them they're ready. Be able to change locations/quantities of inventory in stockroom on the fly, using a hand-held device. Completely paperless reporting (LIMS limitation currently).

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:

Eliminate:

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor	X	Attractive to employee		Equally attractive to both
2.	X	High-tech look		Warm feeling		
		Daylight				
3.	X	Windows in lab		Windows in office		Windows in corridors
4.		Privacy in labs	X	Light/view into labs		
		Flexibility				
5.		Flexible benches	X	Open labs		Standardized labs
6.		Testing changes	X	Department growth		Expansion of building
7.	X	Versatile labs and support spaces		Movable casework		
8.		Point of use service		Overhead service carriers	X	Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs	X	Between departments
10.	X	Through lab design		In circulation areas		In office areas
11.		Through visual transparency (glass)		At breakout areas and small meeting nodes	X	At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.	X	Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th, so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.
Please complete the following so that we may refer to you should any questions arise.

Name and Title:	**Michelle J. Mills, Public Service Executive, Laboratory Manager Health Chemistry Newborn Screening**
E-mail & phone:	**Michelle.J.Mills@ks.gov, (785) 296-3442**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.
Blood Lead testing of children in the State of Kansas either as a health screen or due to possible heavy metal contamination.

Our short-term goals are to improve turnaround time for whole blood and cease analysis of filter paper.

Our long-term goals are to move this testing to another department (Inorganic Chemistry)

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?
Specimens are picked up on 1st floor and transferred to 2nd floor

Accessioning/ordering of specimens on 2nd floor daily to transferred to 3rd floor for testing

Specimens are stored on 2nd floor prior to testing and stored on 3rd floor post-testing

Reagent prep for calibration solution is infrequent (every 2 months)

For Whole Blood:

Prep 15 – 20 tubes for QC and calibration in addition to specimens

Move specimens to the hood for addition of solvent to tubes for analysis

Digi flex adds diluent and whole blood to a tube under the hood for each specimen and controls

The whole blood specimen's tubes are transferred to the autosampler

ICP-MS aspirates from the tubes located on the autosampler

Tubes are taken off autosampler after analysis and disposed of in biohazard waste

Data is reviewed after run finished - approximately 30 minutes to an hour (1st and 2nd check)

For Filter Paper:

The filter paper specimens are punched on a DBS puncher into plates

The punched plates are transferred to the Janus liquid sampling system

Extraction solution is loaded into plates by Janus

Plates prepared on Janus are transferred to ICP-MS

The ICP-MS analyzes filter paper specimens and an analyst watches for clogging during analysis

After analysis, the plates analyzed are discarded in biohazard waste

Data review for filter paper is much more extensive and takes longer – approximately 2 hours (1st and 2nd check)

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Manager	1	1	1	1	1	1	1	1
Technical Supervisor	1	1	1	1	1	1	1	1
Lab Technician	0	0	0	0	0	0	0	0
Analysts	1	1	1	1	1	1	1	1

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Manager	X		
Analyst		X	
(Having multiple workstations throughout the lab is very helpful with workflow)			

List major rooms/areas currently occupied by this group.
The Blood Lead testing area is shared with Inorganic Chemistry. We share the ICP-MS.

List, in order, the other departments or services that you consider essential to be near or adjacent:
Being near Inorganic Chemistry would be helpful if we are to continue sharing the ICP-MS.

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
The ICP-MS requires an exhaust (snorkel), a hood for adding solvents to whole blood specimens, cooler temperatures and a lot of room.

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Argon tank, compressors, battery back-ups for ICP-MS.

Millipore water is required for instrumentation.

Hood for addition of solvents to whole blood

Sanitization
Describe the protocols and frequency for sanitizing rooms.
10% bleach with 70% ethanol chaser for benches, worktops and Hood

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?
Pipette tips, gloves, plates

Refrigerators for specimen storage

We would like a storage closet for reagents, plates, gloves, pipettes, etc. Storage closet would be easier for inventory

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

CLIA, OSHA, cGLP

Identify peak days and hours of operation.

Currently, staff are here on alternative shifts from 06:30 to 05:00 PM, Monday through Friday.

Saturday hours are approximately 06:00 AM to 04:30 PM and subject to change.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

ICP-MS, Janus liquid handling system for filter paper (if we are still testing for filter paper), ESI autosampler, DBS puncher for filter paper (if we are still testing for filter paper), Digi flex for whole blood, Hood for addition of solvent to whole blood specimens

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.
We would like this testing to move to Inorganic Chemistry. If not, we will need additional space for point of care testing for Hemoglobin/Hematocrit and additional room for multiple analysts testing at the same time.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.
Remote monitoring of temperatures of refrigerators/freezers. Building access during the weekends, early morning and late at night. Card access would be ideal. Security cameras would be helpful in seeing what specimens are brought up and at what time (to prevent missing specimens).

Architectural Character

List three words that describe what you wish to see in your new facility.
Room

Convenience

Storage

Priorities

List three program elements, qualities, or relationships you must have to be successful.
Space

Cleanliness

Ease of Workflow

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Reagent storage space for each department using the ICP-MS

General storage space for each department using the ICP-MS

Hood which is easy to use ergonomically for analysts

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:
New instrumentation

Storage area

Eliminate:
Hood difficult to work in

Lack of storage

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

To better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.	x	Attractive to visitor	x	Attractive to employee		Equally attractive to both
2.	x	High-tech look	x	Warm feeling		
		Daylight				
3.	x	Windows in lab	x	Windows in office	x	Windows in corridors
4.	x	Privacy in labs	x	Light/view into labs		
		Flexibility				
5.	x	Flexible benches	x	Open labs		Standardized labs
6.	x	Testing changes	x	Department growth	x	Expansion of building
7.	x	Versatile labs and support spaces		Movable casework		
8.		Point of use service	x	Overhead service carriers	x	Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs		Between departments
10.		Through lab design		In circulation areas		In office areas
11.	x	Through visual transparency (glass)		At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type		Grouped by process		
13.	x	Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.
Please complete the following so that we may refer back to you should any questions arise.

Name and Title:	**Michelle J. Mills, Public Service Executive, Laboratory Manager Health Chemistry Newborn Screening**
E-mail & phone:	**Michelle.J.Mills@ks.gov, (785) 296-3442**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.
The function of this group is to screen any baby born in the State of Kansas for genetic disorders using dried blood spots. Blood Lead testing of children in the State of Kansas also falls under our group.

Our short-term goals are to improve processes and turnaround time.
Our long-term goals are to expand space and staff as we add new methods for new disorders.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?
Data Review (AM) of previous day's testing - approx. 08:00 AM to 09:00 AM (multiple analysts) in the offices. Initial papers and file in storage room.

Punch abnormal dried blood spot confirmations – approx. 09:00 AM to 09:30 AM (multiple analysts) in the punch room. These are confirmations of abnormal specimens.

Open, review and order current day's dried blood spot specimens - approx.06:30 AM to 10:30 AM (multiple analysts) in the processing area. This area needs to be optimized or larger for better workflow.

Punch current day's specimens – approx. 08:30 AM to 11:30 AM (one to two analysts) in the punch room.

Analyze current day's specimens - approx.11:30 AM to 04:30 PM (multiple analysts) in multiple testing rooms with different incubation periods.

Lunches are taken between 11:30 AM to 12:30 PM in 30-minute increments

Data Review (PM) and Administrative Work – approx. 03:00 PM to 04:30 PM (multiple analysts) in their offices in between testing in the analysis rooms.

Blood Lead testing is performed by our group sporadically throughout the week, currently Monday's only. This generally requires one analyst.

PCR testing using a Luminex is analyzed Mondays and Thursdays by one analyst. The testing takes a minimum of 6 hours.

Specimens are received by multiple trips to the mail room for pick-up. The trips are primarily from 06:30 AM to 10:30 AM, then sporadic throughout the rest of the day. These specimens are in large envelopes and hand-carried from the mail-room on the 1st floor to the lab on the 2nd floor.

Staff move from the processing area, punching area and lab area to offices multiple times during the day.

Analysts gown up to open specimens, punch specimens and analyze specimens.

We currently test using multiple methods including ELISA testing, Triple Quadrupole Mass Spectrometry and PCR.

We move in and out of rooms for testing. We move from the lab to offices multiple times a day.

Specimens are stored in refrigerators in the processing area

We send a minimum of 7 reports daily to Follow-up (report abnormal specimens to providers)

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Manager	1	1	1	1	1	1	1	1
Technical Supervisor	1	1	1	1	2	2	2	2
Lab Technician	1	1	1	1	1	0	0	0
Analysts	6	6	6	7	7	8	8	8

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Manager	X		
Technical Supervisor		X	X
Lab Technician		X	X
Analysts		X	X
(Having multiple workstations throughout the lab is very helpful with workflow)			
(Individual office space helps with retention. If not available, then an office area for analysts outside of the lab would be helpful)			

List major rooms/areas currently occupied by this group.
MS room, Pre-Amplification Room, Post-Amplification Room, Clean Room with Dead-Air Box, Instrument room with Luminex and Dead-Air Box, Extra office room, 4 offices for analysts, 1 office for manager, 1 punch room, 3 bathrooms, processing area, extra room for analyzers

List, in order, the other departments or services that you consider essential to be near or adjacent:
Diagnostic Microbiology as sharing PCR rooms would be beneficial

Being near receiving would be ideal or if receiving could notify us by a buzzer (light or sound) that specimens have arrived.

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
Humidity and static control for punch room. Humidity must be >40% for 1.5 mm blood spots.

The PCR rooms we use require contamination prevention. A pass-through window between clean room, pre-amplification room, post-amplification room would be beneficial.

MS room requires cooler temperatures

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Nitrogen generators, compressors, battery back-ups for each MS instrument. There are currently 2 with the possibility of adding 2 more in the near future.

DI water is required for instrumentation.

Sanitization
Describe the protocols and frequency for sanitizing rooms.
10% bleach with 70% ethanol chaser for benches, worktops and dead-air boxes

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?
Pipette tips, gloves, reagent basins are required for daily work-flow

Refrigerators for kit storage.

We would like a storage closet for HPLC reagents (RT in dark) and for gloves, pipettes, etc.

Storage closet would be easier for inventory

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

CLIA, OSHA, cGLP

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Identify peak days and hours of operation.

Currently, staff are here on alternative shifts from 06:30 to 05:00 PM, Monday through Friday.

Saturday hours are approximately 06:00 AM to 04:30 PM and subject to change.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

Two - Triple Quadrupole Mass Spectrometry with High Performance Liquid Chromatography and Water's Sample Manager with Nitrogen Generator, Argon gas cylinder, Battery Backup, Compressor and waste containers. These TQD-MS require ventilation and two incubated shakers.

Two – AutoDelfia instruments with large CPU/Monitor workstations (discontinued use in favor of GSP in 2020)

Two – GSP requiring plumbed-in DI water. (future add in 2019-2020 to take place of AutoDelfia)

Two to three qPCR instruments for SCID/SMA testing

One Luminex for PCR testing

Two HPLC instruments for Hemoglobinopathy testing with 2 monitors and waste jugs

Two mini-punchers for SCID and PCR use

Three large punchers for daily use

Four regular refrigerators

Two regular freezers

Two commercial refrigerators

One commercial freezer

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.
We will always be adding disorders as approximately 23 Newborn Screening disorders have been added over the past 30 years in the US. We need an adaptable room which can handle changes as we add instrumentation. We will always be adding new disorders. It is possible we will expand, or we will change instrumentation due to multiplexing (running multiple disorders on one instrument rather than multiple instruments). The space needs to be flexible for adding or changing methods. The methods could be PCR, genomic sequencing or Mass Spectrometry.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.
Remote monitoring of temperatures of refrigerators/freezers. Building access during the weekends, early morning and late at night. Card access would be ideal. Security cameras would be helpful in seeing what specimens are brought up and at what time (to prevent missing specimens).

Wish list from employees:

Water fountain (Elkay for water bottle fill up)

Conference room area in lab

Storage room for supplies

Storage room for hard copies of data

More Flammable cabinets

Standing desks (see attached pictures of sitting/standing desks)

Daycare

Kitchen in breakroom (stove/oven/dishwasher) with multiple outlets for crock pots on pot luck days

Architectural Character

List three words that describe what you wish to see in your new facility.
Adaptability

Bright

Practicality

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.
Adaptability for new testing methods, Follow-Up (report abnormal specimens to providers) in our building, Space to expand testing and to add new employees

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Follow-up in our building, a desk for each employee, a small privacy/break room in our department

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:
See attached "Ideas" word document

Eliminate:
See attached "Ideas" word document

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.	x	Attractive to visitor	x	Attractive to employee		Equally attractive to both
2.	x	High-tech look	x	Warm feeling		
		Daylight				
3.	x	Windows in lab	x	Windows in office	x	Windows in corridors
4.	x	Privacy in labs	x	Light/view into labs		
		Flexibility				
5.	x	Flexible benches	x	Open labs		Standardized labs
6.	x	Testing changes	x	Department growth	x	Expansion of building
7.	x	Versatile labs and support spaces		Movable casework		
8.		Point of use service	x	Overhead service carriers	x	Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs		Between departments
10.		Through lab design		In circulation areas		In office areas
11.	x	Through visual transparency (glass)		At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type		Grouped by process		
13.	x	Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 17th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Amanda Bradley—Virology/Serology/Molecular (VSM) Unit Manager**

E-mail & phone: **Amanda.Bradley@ks.gov 785-291-3387**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

The VSM unit performs testing that I group into three categories: Vaccine Preventable Disease testing, STI testing, and Vector-borne Disease testing. The vector-borne disease testing is an area where our epidemiologists would like us to expand testing in the next few years. We work as a team with state epidemiologist to identify, prevent, and control outbreaks of illness. It is imperative that some of our results are released daily (e.g. syphilis), and we occasionally must work after hours if the epidemiologists identify a patient with a high likelihood of measles, mumps, or a new strain of influenza. Our serology testing is performed daily or weekly, but our PCR (molecular testing) is performed on an as-needed basis and the volume varies significantly throughout the year.
We are currently allowing some other units in the facility to make use of our molecular testing equipment, which could be located more centrally. The team lead in my unit (Lauren) and I are also part of the Counter-bioterrorism Unit (BSL-3) so we work closely with some members of the Microbiology Unit. One of my major goals is to make shared workspace/instrumentation and collaboration between Microbiology and VSM more efficient.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

Before anything else, reagents that must come to room temperature are set out on the countertops and some daily maintenance is performed on the instruments (5-10 mins). Then, analysts spend approximately an hour logging in specimens and ordering tests downstairs in the customer service health room. A customer service representative usually opens the specimen boxes for us and organizes the specimen tubes in racks for the login process before we arrive. Specimens are taken upstairs in hard covered containers on a cart after login via the service elevator. Analysts spend approximately another ½ hour processing the blood specimens in the serology area. Since we often receive one serum tube with multiple test requests, analysts have to aliquot the serum into multiple tubes.

In the serology area, the Tigris (gonorrhea and chlamydia) instrument, the Evolis (HIV, Hepatitis, Rubella) instrument, and the AIX 1000 (syphilis screening) instrument are loaded with that day's specimen batch, reagents are prepared, and then the analysts can walk away for periods of time once the instruments are started. Results are generated every day on these instruments.

Analysts assigned to the PCR (measles, mumps, herpes, norovirus, influenza, respiratory disease panel) area process specimens with requests for molecular testing and begin an extraction procedure on the QiaCube Instruments. While these are running, they make reagents (separate for each requested test). When the extraction is complete, they load plates (separate for each requested test) with the reagents and sample and put them into the ABI 7500 fast DX instruments. They can then walk away as the analyzers run for approximately 2 hours. This area can become incredibly busy during the peak of influenza season or a measles/mumps outbreak. Specimens that are negative for influenza, measles, or mumps are run on a shared instrument (Biofire) located in the Microbiology wing. For PCR testing, we must have separate areas for extraction, reagent preparation, plate loading, and amplification to minimize the potential for contamination.

Vector-borne testing (mostly zika virus) is requested about once per week and is currently performed by analysts assigned to the PCR area. West Nile Virus is new to the testing menu this year, and we are unsure what our specimen volume will be. I am in the beginning process of verifying testing for another molecular assay for rickettsia (tick-borne disease).

During the times that instruments are running, analysts perform a variety of tasks, including: Required documentation for lab certification and quality assurance, follow-up with facilities for missing specimen information, inventory and ordering, required room and instrument maintenance, verifying new reagents, process improvement projects, statistics and data tracking, presentations, training new employees, shipping referral specimens, etc. Analysts frequently move between their desk in the office and the laboratory throughout the day. All microbiologists (including the manager) are trained to perform every test. The unit operates as a team to complete all required duties, often checking in on one another and fluidly jumping from task to task. Communication is essential.

In the afternoon, analysts will report results from the larger instruments and perform clean-up or end-of-day maintenance. Specimens finished with testing are frozen in the Specimen Storage Room for the next 3-6 months. Syphilis confirmatory testing is run in the afternoon three days per week. At the end of the day, analysts will check the health room again for specimens, unpackage them, sort them, and log them in. They also ensure that any specimens they do not have time to log in will be acceptable for testing the next day and process/freeze them if necessary.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Manager		1	1	1	1	1	1	1
Team Lead		1	1	1	1	1	1	1
Microbiologist		4	4	5?	5?	5?	5?	5?
Lab Tech		1	1	1	1	1	1	1

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Manager	X		
Team Lead	X (connected to shared office)		
Microbiologists (4-5) and Lab Tech (1)		X (personal desk in shared office)	X (personal desk in shared office)

List major rooms/areas currently occupied by this group.

Serology Lab (large room with high-throughput instruments where blood testing is performed), PCR Lab (several separate rooms to prevent contamination), Vector-borne testing room, Freezer Room for sample storage, Overflow Room (for influenza outbreak), Equipment Verification Room (pipette calibration), Small Dark Room (Microscope), Office Space

List, in order, the other departments or services that you consider essential to be near or adjacent:

Microbiology, BSL-3 lab, Newborn Screening (other health lab)

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)

We use several biosafety cabinets because our work generates infectious aerosols. Air flow will be very important in these areas. Rooms must be 18-25 degrees Celsius with a humidity range of 30-75%. Personally, I like windows in the lab, but some of our instruments and reagents should not be exposed to UV light.

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)

Biosafety cabinets, DI water, Safety Shower, Eyewash Stations

Sanitization
Describe the protocols and frequency for sanitizing rooms.

We have daily, weekly, monthly, and quarterly requirements for different tests. The PCR/Molecular lab has the most stringent requirements to avoid contamination. We can talk more about this at the meeting if you need.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Consumable supplies are usually stored near the bench top/testing area where they are needed in cabinets or on shelving. We will need some space for larger supplies or shipments that don't fit in cabinets or on shelving. Many of our reagents require freezers or refrigerators so those will be needed in many rooms.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

The testing in our wing is all BSL-2, and we must adhere to CLIA guidelines.
Hours of Operation: 8:00am-5:00pm Monday through Friday; Infrequent after-hours work as needed by epidemiologists.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

Evolis Instrument: Significant counter space currently, new instrument will need floor space instead

Tigris Instrument: Significant floor space—we are hoping to purchase a replacement instrument with a smaller footprint, but it will still require a good amount of floor space

AIX Instrument: Countertop Instrument

MagnaPure: Countertop Instrument

2 QiaCube Instruments: Countertop Instruments

4 ABI Fast 7500 Dx Analyzers: Countertop Instruments

2 QuantStudio Dx Analyzers: Countertop Instruments

5 Dead Air Boxes: Counter space (4) or floor space (2)

Large Incubator

2 Large Centrifuges

4 Biosafety Cabinets

Multiple freezers and refrigerators, 2 large -80 freezers

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

Our state epidemiologists would like us to expand testing in our vector-borne disease area. If we add a significant amount of testing, we may need to hire one more microbiologist. The Tigris instrument is going to be replaced with a smaller instrument that also requires floor space. We need to have open space to expand in the event of an outbreak (especially influenza).

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

The only security clearance that is currently required is keycard entrance to the building.

Architectural Character

List three words that describe what you wish to see in your new facility.

Modern, efficient, preparedness

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.

Design that facilitates communication between unit members and other departments, flexibility to expand testing menu or use more space during outbreaks, offices near laboratory since analysts go back and forth often

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.

Meeting/breakroom for our unit specifically (we meet in the office or have to reserve a conference room right now), walk-in freezer for specimen storage, design that minimizes contact points—like double-hinged doors and sinks with foot pedals

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?

Replicate:
Separate rooms for PCR (maybe a little bigger), Offices all close together, some kind of clear indication dividing office/lab space—here it's a half wall that divides main labs from offices

Eliminate:
Biosafety cabinets in non-ideal spaces for airflow, some storage cabinets are too high, more space for maneuvering between aisles, bench height is good in some spaces and not in others

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor		Attractive to employee	X	Equally attractive to both
2.	X	High-tech look		Warm feeling		
		Daylight				
3.		Windows in lab	X	Windows in office		Windows in corridors
4.	X	Privacy in labs (with natural light when possible)		Light/view into labs		
		Flexibility				
5.	X	Flexible benches (some)		Open labs		Standardized labs
6.	X	Testing changes		Department growth		Expansion of building
7.	X	Versatile labs and support spaces		Movable casework		
8.		Point of use service		Overhead service carriers	X	Flexible infrastructure with additional capacity
		Interaction				
9.	X	Most important in lab		Between labs		Between departments
10.	X	Through lab design		In circulation areas		In office areas
11.		Through visual transparency (glass)	X	At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.	X	Office next to lab (but not directly outside it)		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Philip Adam, Diagnostic Microbiology Unit Manager**

E-mail & phone: Phil.adam@ks.gov, **785-296-1633**

General Information

Function and Organization

Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

The DM unit tests all bacterial specimens submitted to the lab. Our subspecialties (workflows) are As follows: enterics, reference, tuberculosis, whole-genome sequencing (WGS), service, and bio-terrorism. WGS is a secondary analysis of samples from the enterics workflow. Service is our In-house media preparation area, and serves the entire lab as needed.

Workflow Description

Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

Samples for all workflows are gathered from customer service by my staff each morning and as Needed Throughout each day. Small 8"x4"x4" shippers stacked on carts are the primary means of Receiving samples, with larger shipping containers being our secondary means. Specimens are Unboxed in CS, placed into transport bins, and carted to the 2nd floor where they are processed by The relevant subspecialty group. Staff autoclave the secondary containers and return them to CS By cart. Specimens are processed the day of receipt and analyzed in lab the following day. WGS Specimens are collected daily from the enteric workflow and taken to a different lab for processing.

WGS samples are then transported to B-wing for extraction, and back and forth between A and B wing for the WGS preparation process due to a lack of molecular equipment consolidation.

Tuberculosis samples are all handled within the TB lab. This lab performs microscopy daily in a dark room, performs ELISA testing 2x weekly, and BSL-3 culture work daily.

PCR is performed by the TB and Reference groups as needed (at least weekly per group). This requires the transportation of specimens to a different lab and is inconvenient and suboptimal from a safety standpoint.

The bioterrorism lab is a low volume lab as far as specimens received. Specimens are brought up from CS to the BT lab, and the specimens never leave the lab again; they are either retained or destroyed within the lab.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Technician	3	2	2	1	1	1	1	1
Microbiologist	4	4	4	5	5	5	5	5
Manager	1	1	1	2	2	2	2	2
CLIA Supervisors / Micros	3	3	3	4	4	4	4	4

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Technician	No	Yes	No
Microbiologist	No	Yes	No
CLIA Supervisors / Micros	Yes	No	No
Manager	Yes	No	No

List major rooms/areas currently occupied by this group.
Offices: 2C22, 2C1, 2B25. Lab space: all of A-wing 2nd floor.

List, in order, the other departments or services that you consider essential to be near or adjacent:
Virology/Serology, Customer Service

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)

Room: 2-A-19	Humidity Range: 30-75%	Temp Range: 19-25°C
Room: 2-A-23	Humidity Range: 20-80%	Temp Range: 20-25°C
Room: 2-A-10	Humidity Range: 35-60%	Temp Range: 22-25°C
Room: 2-A-16	Humidity Range: 10-85%	Temp Range: 20-25°C
Room: 2-A-12	Humidity Range: 0-90%	Temp Range: 15-25°C
Room: 2-B-3	Humidity Range: 20-70%	Temp Range: 15-30°C

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Di water at standard faucet pressure, CO_2 for incubators no specific pressure requirement, 18.3 Mega-ohm water (usually supplied by di water-fed Barnstead purifier on the bench).

Sanitization
Describe the protocols and frequency for sanitizing rooms.
Daily bleach and ethanol wipe down of immediate working area, weekly bleach and ethanol wipe Down of all benches.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?
Some common supplies are maintained in the stockroom. Most of our supplies are stored within unit. We currently have ~75 linear feet of floor-to-ceiling shelving in the service area, non-refrigerated. We have ~75 linear feet of cabinets throughout the unit, and we need all of them and more.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?
DM needs BSL-2 and BSL-3 spaces. BSL-3 spaces are regulated by CDC Select Agent Program, BSL-2 spaces
Are regulated by CLIA only.

Identify peak days and hours of operation.

M-F, 0730 – 1700.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

2 CO2 incubators, 1 Air incubator, 2 floor model centrifuges, 1 large benchtop centrifuge, 8
Biosafety cabinets, Cepheid GenXpert Infinity, MiSeq, BacTec MGIT 960, Sensititre AIM and
Vizion, Bruker MALDI-ToF, 4 fluorescent microscopes, 3 large benchtop incubators (1 CO2), 2
Dead-air boxes, 5 autoclaves (1 pass-thru model), 2 thermocyclers, plate washer, plate reader,
4 BioFire FilmArray 2.0's, Nanodrop and Qubit spectrometers, 1 laminar flow cabinet, 3 -70 freezer,
3 3-door refrigerators, 1 fridge/freezer, 3 -20 freezers, 3 standard refrigerators

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.
Testing will move towards WGS, we will need additional MiSeq instruments and Microbiologists to
Accommodate this. KHEL should prepare to consolidate all molecular equipment to a single area in
The new building. We will always need bench space for culture work.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.
Card access is used to separate DM from the rest of the building. This is set up in tiers, with the
Highest level access being restricted to the BT lab suite. Remote monitoring of temperatures
Throughout DM would be ideal.

Architectural Character

List three words that describe what you wish to see in your new facility.
Modern, flexible, sustainable

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.
State-of-the-art teleconferencing capability

Comfortable office environment that is open and spacious, with quiet areas / private offices

Training lab with room for 15 students + instructor's space at front of room

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Quiet and comfortable places for staff to collaborate / meeting places

A snack bar stocked daily with fresh foods and coffee, weight room.

Large lecture hall / meeting room for ~150 people and state-of-the-art projectors, etc.

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:
Overhead bench storage, standing lab benches, clean lines, open offices, lots of bench space, natural light, functional storage space, windows, shades with electronic control, equipment temperature monitoring via passive system

Eliminate:
Long walks to lab, no windows in DM labs, inefficient workflow, fluorescent lighting, stairs, old office furniture, old equipment, makeshift feel, poor temperature control, noisy lab space, bottlenecks in high use spaces, poor lighting.

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor		Attractive to employee	X	Equally attractive to both
2.	X	High-tech look		Warm feeling		
		Daylight				
3.	X	Windows in lab		Windows in office		Windows in corridors
4.		Privacy in labs	X	Light/view into labs		
		Flexibility				
5.	X	Flexible benches		Open labs		Standardized labs
6.		Testing changes	X	Department growth		Expansion of building
7.		Versatile labs and support spaces	X	Movable casework		
8.	X	Point of use service		Overhead service carriers		Flexible infrastructure with additional capacity
		Interaction				
9.	X	Most important in lab		Between labs		Between departments
10.		Through lab design	X	In circulation areas		In office areas
11.		Through visual transparency (glass)	X	At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.	X	Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Erin Harvey – Organic Chemistry Unit Manager**

E-mail & phone: **Erin.j.harvey@ks.gov**

785-291-3075

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.
Perform pesticide, herbicide, disinfectant by-products (THM/HAA), volatile organic compounds, Semi-volatile compounds using GC, GC-MS in public drinking water, lakes, wastewater, soil and streams.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?
Samples are delivered to the back door by hand from the client, USPS, UPS or Fed-Ex. They are sorted, opened and received into the LIMS system. They are placed in the refrigerator (if necessary) or left on the counter for the chemist to pick up, they are transported on a cart upstairs. The samples are placed in the appropriate refrigerator until extraction or analysis. Samples are transported on a cart to the appropriate extraction lab and once extracted placed into a sample storage refrigerator, then transported to the appropriate analytical lab. Samples are held in a refrigerator until disposal down the drain. Once samples are analyzed the chemist will enter the results in the LIMS and review the data.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Manager (same as Env. Micro)_	X	X	X	X	X	X	X	X
Chemist	X	X	X	X	X	X	X	X
Chemist	X	X	X	X	X	X	X	X
Chemist	X	X	X	X	X	X	X	X
Chemist	X	X	X	X	X	X	X	X
Chemist	X	X	X	X	X	X	X	X
Chemist				X	X	X	X	X
Lab Tech	X	X	X	X	X	X	X	X
Lab Tech	X	X	X	X	X	X	X	X

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Manager	X		
All - Chemist			x
All – Lab Tech			x

List major rooms/areas currently occupied by this group.
Customer service receiving area

Extraction rooms

Instrument rooms

Dishwashing room

List, in order, the other departments or services that you consider essential to be near or adjacent:

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
Positive pressure for VOC lab

Fume hoods

VOC lab needs to be located away from possible contaminants

Room temperature between 60-70 Celsius

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Glass distilled water

DI water

Nitrogen gas, hydrogen gas, helium gas

Sanitization
Describe the protocols and frequency for sanitizing rooms.
General lab cleaning

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Sample bottles

Sampling coolers and boxes

Gas cylinders

Glassware

Flammable solutions

Lab supplies and equipment

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

EPA

TNI

Identify peak days and hours of operation.

Majority of samples are received Tuesday-Thursday. Few are hand delivered on Mondays

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access

(Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Architectural Character

List three words that describe what you wish to see in your new facility.
Adequate storage for supplies

Bench Space

Efficiency

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:

Eliminate:

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor	x	Attractive to employee		Equally attractive to both
2.		High-tech look	x	Warm feeling		
		Daylight				
3.		Windows in lab	x	Windows in office		Windows in corridors
4.		Privacy in labs	x	Light/view into labs		
		Flexibility				
5.		Flexible benches	x	Open labs		Standardized labs
6.		Testing changes	x	Department growth		Expansion of building
7.		Versatile labs and support spaces	x	Movable casework		
8.		Point of use service		Overhead service carriers	x	Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs	x	Between departments
10.		Through lab design		In circulation areas	x	In office areas
11.		Through visual transparency (glass)		At breakout areas and small meeting nodes	x	At nourishment centers
		Organization				
12.	x	Grouped by lab type		Grouped by process		
13.	x	Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Erin Harvey – Environmental Microbiology Manager**

E-mail & phone: **Erin.j.harvey@ks.gov**

785-291-3075

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.
Perform E. coli and Coliform testing on public water supplies, lakes and streams. Monitoring for harmful algal toxins in raw and finished water samples and also able to test for Legionella in drinking water.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?
Samples are delivered to the back door by hand from the client, USPS, UPS or Fed-Ex. They are sorted, opened and received into the LIMS system. They are placed in the refrigerator (if necessary) or left on the counter for the microbiologist to pick up (they are transported on a cart upstairs). The samples are tested soon after arrival to the EM lab.
Samples are placed in an incubator, read the next day and results entered in the LIMS. Samples are either autoclaved or dumped down the drain for disposal.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Manager (Same as Organic)	X	X	X	X	X	X	X	X
Microbiologist	X	X	X	X	X	X	X	X
Microbiologist	X	X	X	X	X	X	X	X
Microbiologist				X	X	X	X	X

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Manager (same as organic)	X		
All- Microbiologist			x

List major rooms/areas currently occupied by this group.
Customer service receiving area

Dishwashing room

Autoclave access

Sample kit preparation room

List, in order, the other departments or services that you consider essential to be near or adjacent:

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
BSC

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
DI water

Type II water (Millipore unit)

PCR extraction, mastermix prep, template loading and instrument room

Sanitization
Describe the protocols and frequency for sanitizing rooms.
General lab cleaning

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Sample bottles

Sampling boxes

USPS bulk mail carts

Reagents, test kits, supplies

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

EPA

TNI

Identify peak days and hours of operation.

Majority of samples are received Tuesday-Thursday. Few are hand delivered on Mondays and occasionally samples are received on Fridays. Weekend work for the env. micro lab is required occasionally.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.
Adding on PCR analysis for HAB monitoring.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Architectural Character

List three words that describe what you wish to see in your new facility.
Adequate storage for supplies

Bench space

Efficiency

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
An Environmental PCR lab

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:

Eliminate:

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

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		Daylight				
3.		Windows in lab	x	Windows in office		Windows in corridors
4.		Privacy in labs	x	Light/view into labs		
		Flexibility				
5.	x	Flexible benches		Open labs		Standardized labs
6.		Testing changes	x	Department growth		Expansion of building
7.		Versatile labs and support spaces	x	Movable casework		
8.		Point of use service		Overhead service carriers	x	Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs	x	Between departments
10.		Through lab design		In circulation areas	x	In office areas
11.		Through visual transparency (glass)		At breakout areas and small meeting nodes	x	At nourishment centers
		Organization				
12.	x	Grouped by lab type		Grouped by process		
13.	x	Office next to lab		Office by other offices		

Facility Programming Questionnaire

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Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Richard Denton / Unit Manager Inorganic Chemistry**

E-mail & phone: **Richard.Denton@KS.gov / 785-296-1657**

General Information

Function and Organization

Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

Our function is to analyze inorganic chemistry samples for the people of Kansas. Our long term is to increase our efficiency and throughput for samples. Another long-term goal is to keep our younger employees satisfied and wanting to work here.

Workflow Description

Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

We receive a request form the program administrators to send out paperwork and bottles for sampling. We then receive samples for analysis. They are received downstairs and then send a Technician to pick them up. They are preserved and stored for analysis. Once analyzed, we ensure all the laboratory management information is updated. Reports are then sent out.

Facility Programming Questionnaire

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Chemist	3	3	3	3	3	4	4	4
Technician	1	1	1	1	1	1	1	1

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
3 Chemist	Best		
1 Technician	Best		

List major rooms/areas currently occupied by this group.
3rd Floor, west wing

List, in order, the other departments or services that you consider essential to be near or adjacent:
Receiving

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
Much of our work involves the use of fume hoods and instrument waste, including exhaust.

Air intake is also needed for the ICP-OES.

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Ultra-high purity liquid Argon

The use of Millipore filtered water, it would be nice to have availability throughout the laboratory.

Currently it is only available in one area.

Sanitization
Describe the protocols and frequency for sanitizing rooms.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

We require a lot of sample storage. We need our sample storage increase 3X what we have now.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

Identify peak days and hours of operation.

0700 - 1700

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

ICP-MS

ICP-OES

CVAA

IC

Auto Titrator

TOC Analyzer

Mercury Analyzer

TSS Station

Digestion Equipment

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

The possibility of growth is always needed.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Same as in all the laboratory areas.

Architectural Character

List three words that describe what you wish to see in your new facility.
Green

Spacious

Well built

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.
Organization

Mix of private and open spaces

Uninterruptable power supplies

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Private office for all employees

White Board in Each Laboratory Room

Campus like feeling

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:
Spacious

Great HVAC

Walk In Coolers

Eliminate:
Not enough storage space

Not enough lab or office space

Poor temperature control

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor	X	Attractive to employee		Equally attractive to both
2.		High-tech look		Warm feeling		
		Daylight				
3.	X	Windows in lab		Windows in office		Windows in corridors
4.		Privacy in labs		Light/view into labs		
		Flexibility				
5.		Flexible benches	X	Open labs		Standardized labs
6.		Testing changes		Department growth		Expansion of building
7.		Versatile labs and support spaces		Movable casework		
8.		Point of use service		Overhead service carriers		Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs		Between departments
10.		Through lab design		In circulation areas		In office areas
11.		Through visual transparency (glass)	X	At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.		Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: **Richard Denton / Unit Manager Chemical Terrorism**

E-mail & phone: **Richard.Denton@KS.gov / 785-296-1657**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

Our function is to maintain laboratories and methods if the need arises. Our long term is to increase our efficiency and throughput for samples. Another long-term goal is to keep our younger employees satisfied and wanting to work here.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

We receive Proficiency Testing assignments from the CDC. These tests are ran to maintain the laboratory and methods.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Chemist	2	2	2	2	2	3	3	3

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
2 Chemist	Best		

List major rooms/areas currently occupied by this group.
3rd Floor, north west wing

List, in order, the other departments or services that you consider essential to be near or adjacent:
Receiving

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
Much of our work involves the use of fume hoods and instrument waste, including exhaust.

The use of liquid nitrogen is also needed

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
Ultra-high purity liquid Argon

The use of Millipore filtered water, it would be nice to have availability throughout the laboratory.

Currently it is only available in one area.

Sanitization
Describe the protocols and frequency for sanitizing rooms.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

We require a lot of sample storage. We need our sample storage increase 3X what we have now.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

Identify peak days and hours of operation.

0700 - 1700

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

ICP-MS

GC-MS

LC

HPLC

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

The possibility of growth is always needed.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Same as in all the laboratory areas.

Architectural Character

List three words that describe what you wish to see in your new facility.
Green

Spacious

Non-Cubicle

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.
Organization

Mix of private and open spaces

Uninterruptable power supplies

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Private office for all employees

Walk In Coolers

Campus like feeling

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:
Spacious

Great HVAC

Not overly lighted

Eliminate:
Not enough storage space

Not enough lab or office space

NO CUBICLES

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor	X	Attractive to employee		Equally attractive to both
2.		High-tech look		Warm feeling		
		Daylight				
3.	X	Windows in lab		Windows in office		Windows in corridors
4.		Privacy in labs		Light/view into labs		
		Flexibility				
5.		Flexible benches	X	Open labs		Standardized labs
6.		Testing changes		Department growth		Expansion of building
7.		Versatile labs and support spaces		Movable casework		
8.		Point of use service		Overhead service carriers		Flexible infrastructure with additional capacity
		Interaction				
9.		Most important in lab		Between labs		Between departments
10.		Through lab design		In circulation areas		In office areas
11.		Through visual transparency (glass)	X	At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.		Office next to lab		Office by other offices		

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer to you should any questions arise.

Name and Title: **Richard Denton / Unit Manager Radiochemistry**

E-mail & phone: **Richard.Denton@KS.gov / 785-296-1657**

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

Long term goal: to have a reproducible, audit-ready, radiochemistry lab for high throughput analysis of gross alpha, beta, gamma samples consisting of water, soil, air filters, and vegetation.

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

(See Example Floor Layout).

Most samples (4L bottles*1000/yr) are delivered by carts.

On a rare occasion (once in 2+ years), samples need to be delivered from exterior hot-zone.

Bottles are delivered to the count room for chemical processing into planchets.

Bottles*1000 need to be stored in a highly organized fashion.

Another 1000/yr * air filters are delivered by cart, analyzed, and stored for a year.

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025
Unit Mgr.	1	1	1	1	1	1	1	1
Chemist	2	2	2	3	4	4	4	4
Technician								

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
Radchem Unit Manager	Yes		
Chemist		Yes	Yes
Chemist		Yes	Yes
Chemist		Yes	yes

List major rooms/areas currently occupied by this group.
(3) People occupying (3) private offices. Two employees working in (2) wet labs and (2) count Rooms.

List, in order, the other departments or services that you consider essential to be near or adjacent:
Gas tank manifold/delivery. Sample Receipt. Liquid Nitrogen Supply. Lead-lined storage.

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work.
(e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)
Humidity Control, Static Control, Small Lead Lined Source Rooms, Radioisotope Hoods

Oven and Furnace Exhaust, Temperature Control, Uniform Power Supply (Load Balancing).

Surge Protection. Radon Management.

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)
P10 Manifold Supply (10% Methane / Argon). Ultra-Pure Water @ 17MOhm,

Liquid Nitrogen Supply for up to (7) 18L dewars.

Exhaust for (2) Ovens and (2) Furnaces.

Sanitization
Describe the protocols and frequency for sanitizing rooms.
Storage of Hot/Cold radionuclide waste: Lead lined rooms.

Subterranean Radon Management.

Toxic materials such as lead, cesium, barium, etc are collected, and logged for waste disposal.

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Radchem operates ~200 chemicals. Need large storage for ~30 [Acids] bottles * 2.5L.

Storage for ~50 high activity RN source bottles. Storage for ~200, 1L high activity gamma sources.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

Identify peak days and hours of operation.

7am to 5pm.

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

(4) Fume Hoods. (6) Gamm Spectrometers + Shields. (15) GFPC instruments. (2) Tricarbs.

(2) Large Fridges 4ºC. (1) Ice maker.

(2) Alpha Spec Analyzers.

(3) Printers (HP P4515n).

(10) Instrument computers, monitors.

UPS Power Supply / Power Conditioners for every instrument and computer = ~20.

Future Operations

Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.
Up to (3) chemists and (1) unit manager = 4 people = (4) offices.

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Card access to offices, source rooms, and count room would be preferred.

RN Source storage need to be card access only.

Radchem operates and generates moderate RN waste in need of security.

Architectural Character

List three words that describe what you wish to see in your new facility.
Functional

Adaptable

Growth

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.
Room to work

HVAC that is reliable

Electrical needs for instrumentation

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.
Liquid Nitrogen Line to Lab, that is reliable

Uninterruptable power supplies

All gamma spec counters in one area

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?
Replicate:

Eliminate:
Unreliable HVAC

Power supplies that are not dependable

Travel path to laboratory is not thought out for sample receipt

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Project Goals

We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

		Image				
1.		Attractive to visitor	X	Attractive to employee		Equally attractive to both
2.		High-tech look		Warm feeling		
		Daylight				
3.		Windows in lab		Windows in office		Windows in corridors
4.	X	Privacy in labs		Light/view into labs		
		Flexibility				
5.		Flexible benches		Open labs		Standardized labs
6.		Testing changes	X	Department growth		Expansion of building
7.		Versatile labs and support spaces		Movable casework		
8.		Point of use service		Overhead service carriers		Flexible infrastructure with additional capacity
		Interaction				
9.	X	Most important in lab		Between labs		Between departments
10.		Through lab design		In circulation areas		In office areas
11.		Through visual transparency (glass)		At breakout areas and small meeting nodes		At nourishment centers
		Organization				
12.		Grouped by lab type	X	Grouped by process		
13.		Office next to lab		Office by other offices		

Quality, Certification, Preparedness.
@LIA, ELIPO
Breath Alcohol.

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

The following survey has been developed to determine each lab group's general planning needs for programming of a new laboratory in Topeka. One form should be completed for each analytical group. Please fill out as much as you can in this form by July 9th so we can review prior to the project kick-off meeting on July 11th. If more space is needed, please add additional pages to this form. Please return to chirs.ertl@clarkenersen.com. Let us know if you have any questions regarding this form 816-474.8237.

Please complete the following so that we may refer back to you should any questions arise.

Name and Title: Jennifer Evans

E-mail & phone: Jennifer.evans@ks.gov 785.291.3162

General Information

Function and Organization
Briefly describe the function of this organizational group. Include your group's mission statement, long and short-term goals, if applicable.

Quality Assurance, CLIA, ELIPO, Preparedness
ADMIN

Workflow Description
Please describe in detail the sequence of work and activity within your analytical group beginning with the sources of work and ending with the destination of samples for your group. If necessary, you may attach a drawing or diagram to this form. How are samples received – on carts, pass-thrus, hand delivered? What are the quantities – large boxes, small vials? Do staff stay in the lab, or move between labs and office? Are there special gowning protocols?

→ Offices: QA manager office. X 1 — # of Staff
ELIP office 2
CLIA office 2
Admin office ~~3~~ (1)
Preparedness office 1
Instrument space / office space * Breath Alcohol 3

Staff # = 9

* desk, ~~table~~ space, file cabinets / bookcase for light file room, table chairs / Flat space on desk.

BSL 3 air conditioners due to heat related injuries //

Kansas Department of Health & Environment | Topeka Laboratory
Facility Programming Questionnaire

Personnel

Please provide the historical and projected number of Lab Personnel, Technicians, Analysts, and other personnel needed to accommodate future growth in your group.

Staff Type	2018	2019	2020	2021	2022	2023	2024	2025

Indicate the personnel by position who require office space in this department and the type of office space required.

Position	Private Office	Workstation	Shared work/Touchdown space
QA x1	✓		
CLIA x 2			✓
ELIPO x 2			✓
Admin x1		✓	✓
Preparedness x1	✓		✓
Breath Alcohol – LAB / 2 staff office Shared space.			

List major rooms/areas currently occupied by this group.

Admin
→ Need LAB / Instrument Staff Space 2 desks workstations
* 20-30 table space / electric power for instruments.

List, in order, the other departments or services that you consider essential to be near or adjacent:

ADMIN Area

Scientific Space Requirements

Special Environmental Requirements
Describe any special environmental space conditions you need to complete your work. (e.g., containment, sterility, air curtain, humidity control, static control, etc.) Also describe any special exhaust requirements required by your group. (e.g., snorkels, radioisotope hoods, perchloric hoods, etc.)

Electrical Outlets for analyzer testing Intox 9000 Breath Alcohol

Laboratory Utilities:
List utilities required for the laboratory (i.e. air, nitrogen, ultra-pure water, cooling water, etc.) and the specifications for each utility (i.e. pressure, flow, purity, etc.)

Breath Alcohol

Sanitization
Describe the protocols and frequency for sanitizing rooms.

Sink / handwash station. Breath Alcohol

Supplies and Storage
How are supplies managed at the facility?
What types and quantities of storage are needed?

Office supplies Cabinets / Shelf.

Regulatory Requirements
Are there any specific requirements for these spaces or functions, such as regulatory or accreditation guidelines (e.g. BSL2, FDA, cGMP)?

Ø

Identify peak days and hours of operation.

8-5

Major Laboratory Equipment:
Identify all major equipment items located in this department. Major equipment items are defined as those items, which either occupy a significant amount of floor space, require special utilities and/or involve a significant capital cost. Do not list standard room, or office furniture.

You may wish to attach a separate file for equipment.

Ø

Future Operations
Identify future changes you foresee in the operation of this department and quantify the subsequent effect these changes will have on staffing, equipment needs, and space requirements.

Ø

Security Requirements
Describe in detail any specific security requirements from the following criteria: Building Access (Main door, service entry, etc.); Card Access (or other secure method) to individual labs within the building; security cameras; acoustical; and remote monitoring of equipment.

Ø

Architectural Character

List three words that describe what you wish to see in your new facility.

Lean / Streamlined.
Welcoming
Professional.

Priorities

List three program elements, qualities, or relationships you must have in order to be successful.

Staff integrity.
dedication

Wish List

List three program elements, qualities, or relationships you would like to have if spatial constraints or money was not a factor.

Ø

Lessons Learned

What are the things about your existing laboratories, or other laboratories you have worked in, that you would like to see in your future facility? Are there any undesirable features you want to avoid in the future?

Replicate:

Dedicated lines for instruments (manufacture guidelines)
Windows in Labs with instrument -
Instrument Drain lines (sink/floor) hard to maintaine 20-25°C 30-85% humidity

Eliminate:

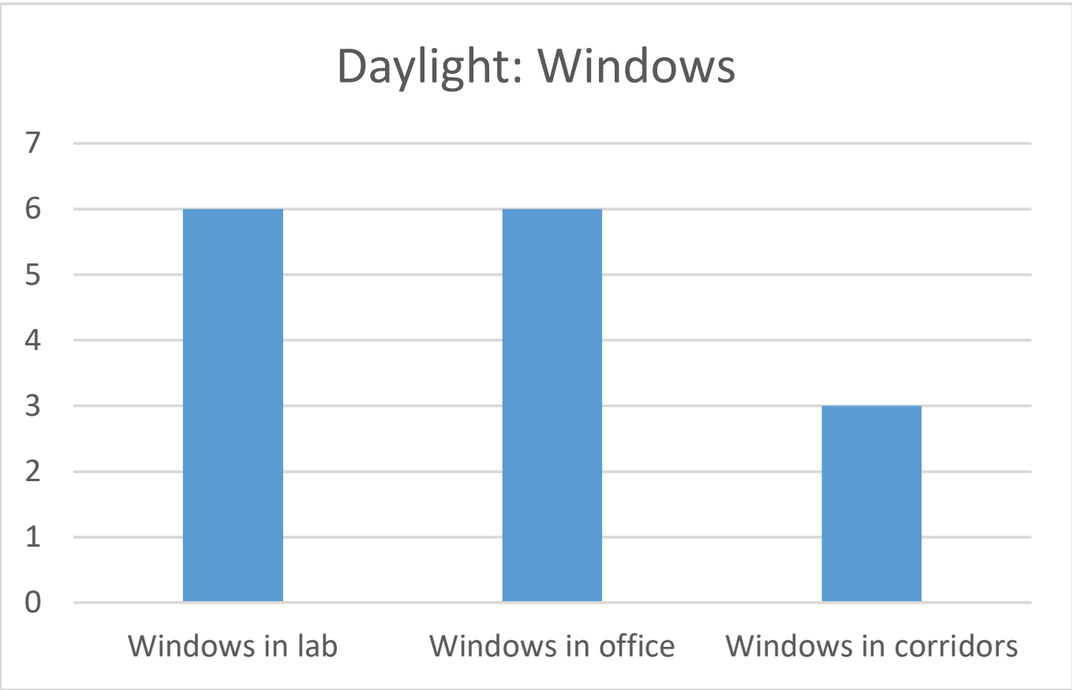
Project Goals

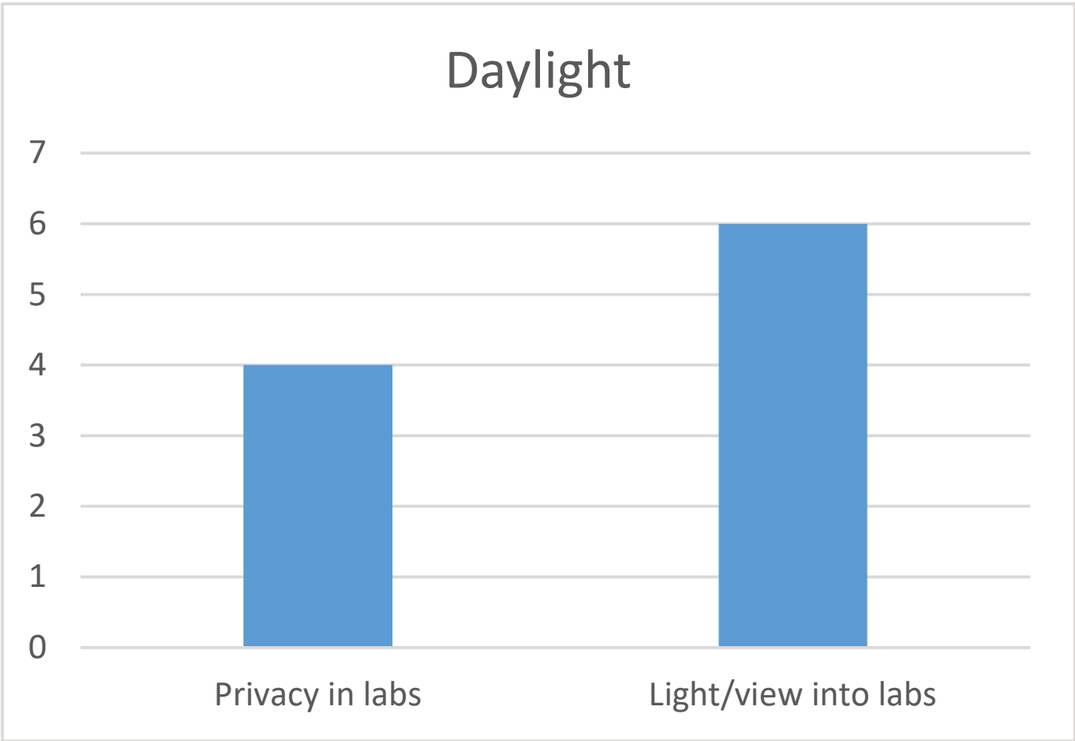
We understand some of the concepts that are important to your new facility. It will be helpful to us to know which factors are most important to you, and how you see achieving your goals.

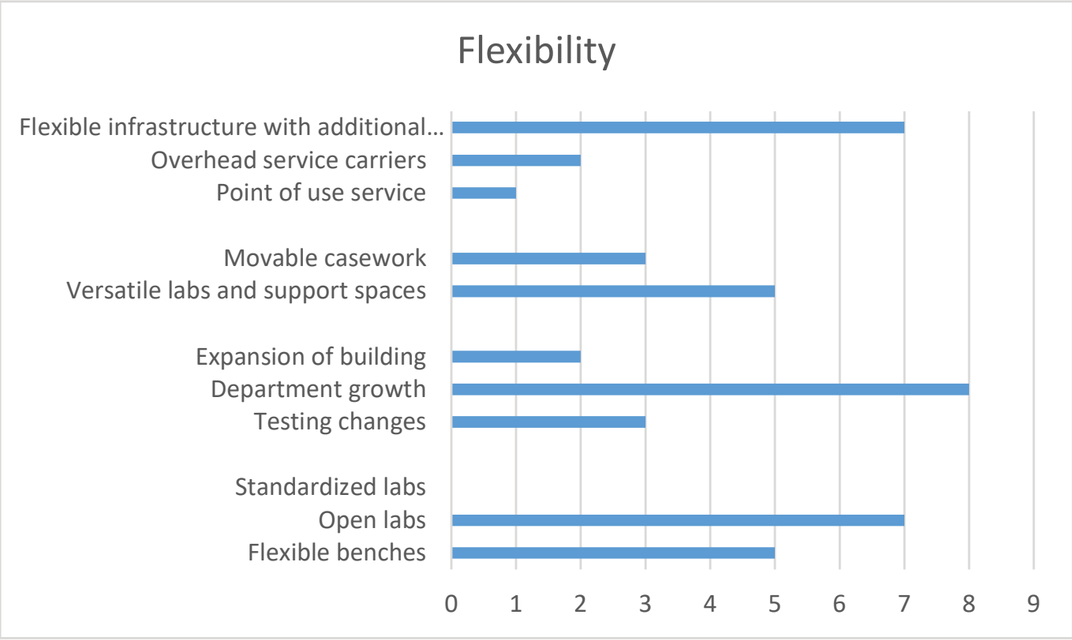
In order to better understand the relative importance of these factors, **on each line**, check the **single** box of the concept that is **most** important to you.

	Image		
1.	☐ Attractive to visitor	☐ Attractive to employee	☒ Equally attractive to both
2.	☐ High-tech look	☐ Warm feeling	
	Daylight		
3.	☐ Windows in lab	☒ Windows in office	☒ Windows in corridors
4.	☐ Privacy in labs	☐ Light/view into labs	
	Flexibility		
5.	☐ Flexible benches	☒ Open labs	☐ Standardized labs
6.	☐ Testing changes	☒ Department growth	☐ Expansion of building
7.	☒ Versatile labs and support spaces	☐ Movable casework	
8.	☐ Point of use service	☐ Overhead service carriers	☐ Flexible infrastructure with additional capacity
	Interaction		
9.	☐ Most important in lab	☐ Between labs	☒ Between departments
10.	☐ Through lab design	☐ In circulation areas	☐ In office areas
11.	☒ Through visual transparency (glass)	☒ At breakout areas and small meeting nodes	☐ At nourishment centers
	Organization		
12.	☐ Grouped by lab type	☒ Grouped by process	
13.	☐ Office next to lab	☒ Office by other offices	

PROJECT GOALS






Flexibility
Flexible infrastructure with additional...
Overhead service carriers
Point of use service
Movable casework
Versatile labs and support spaces
Expansion of building
Department growth
Testing changes
Standardized labs
Open labs
Flexible benches
0
1
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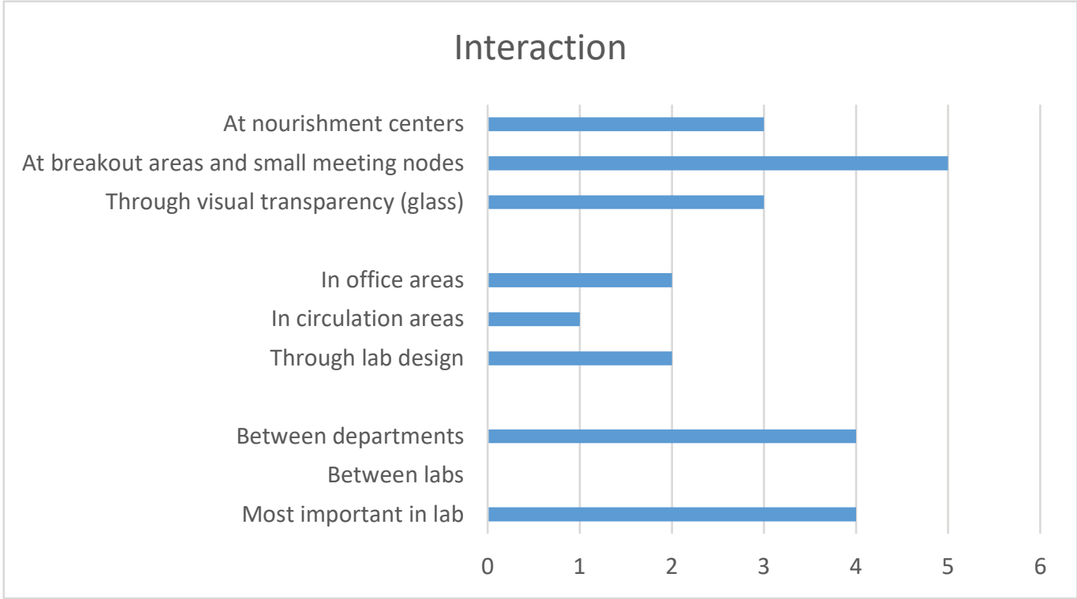

Interaction
At nourishment centers
At breakout areas and small meeting nodes
Through visual transparency (glass)
In office areas
In circulation areas
Through lab design
Between departments
Between labs
Most important in lab
0
1
2
3
4
5
6

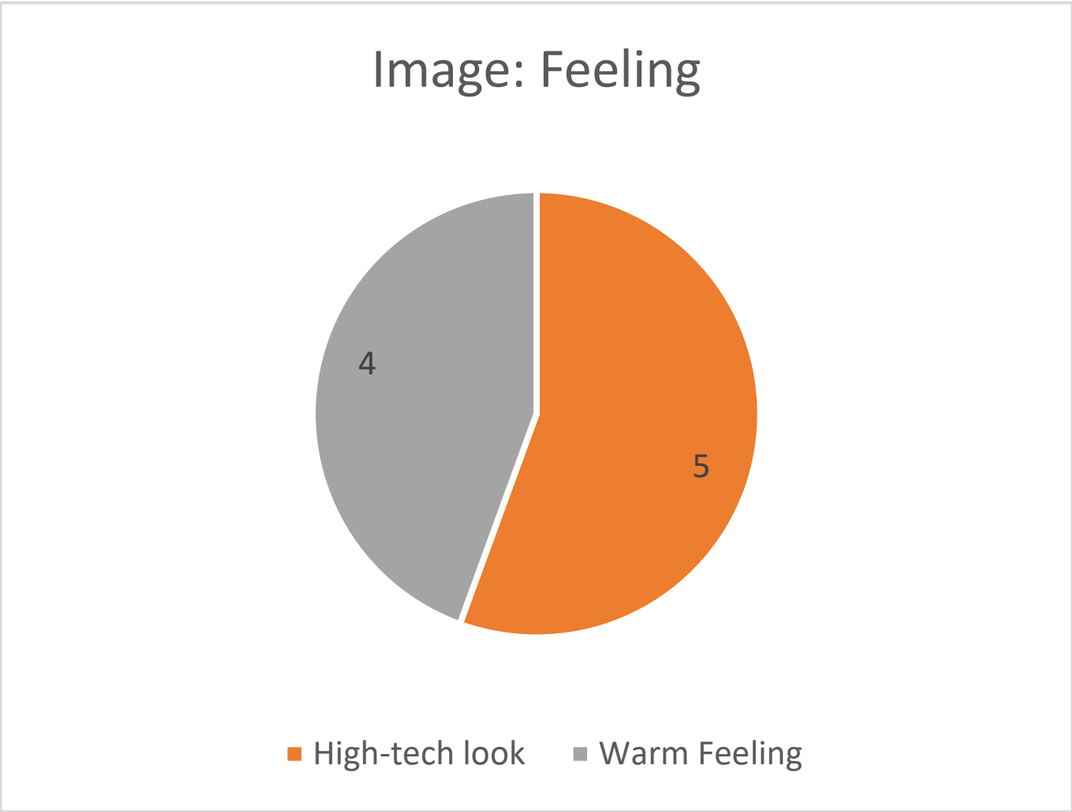


Image: Feeling
4
5
High-tech look
Warm Feeling

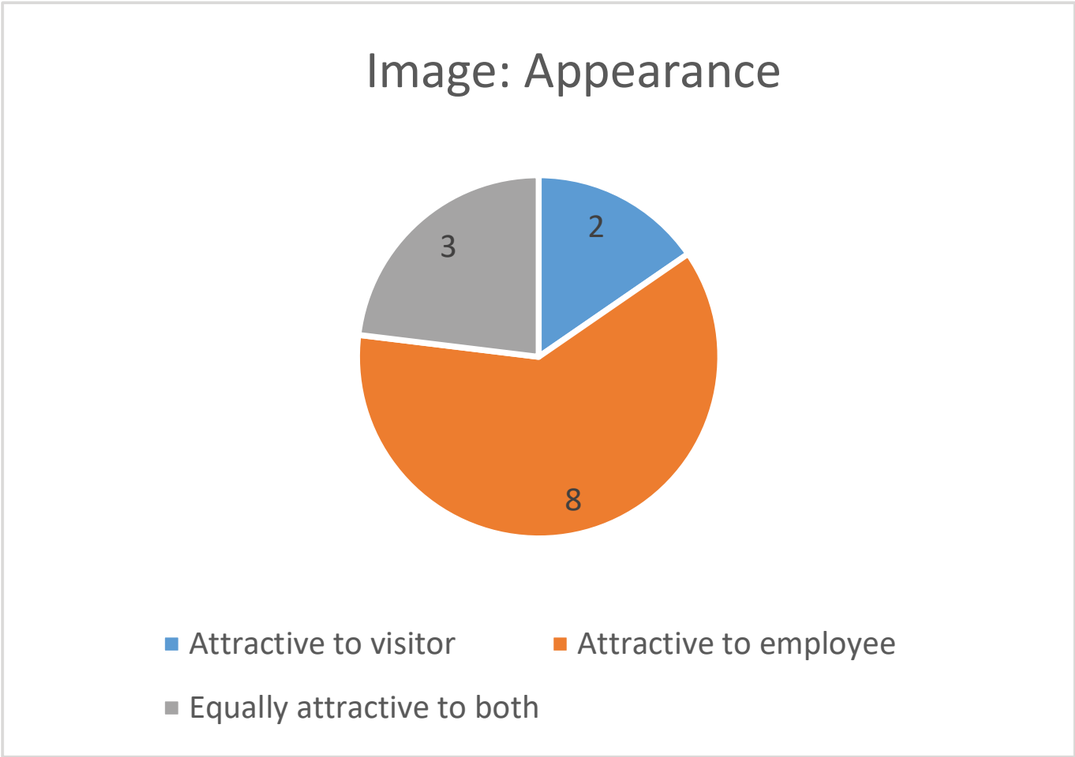
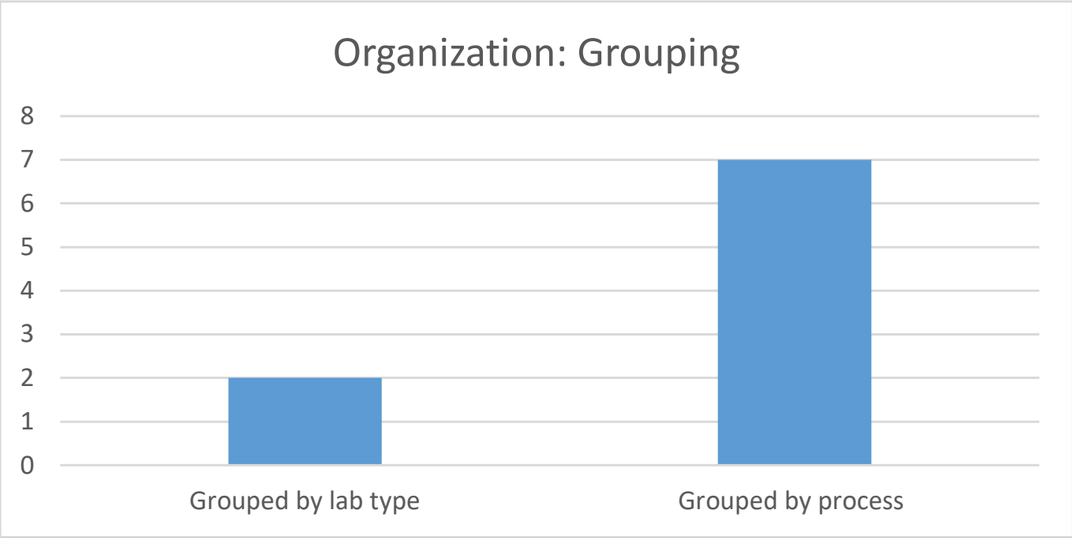
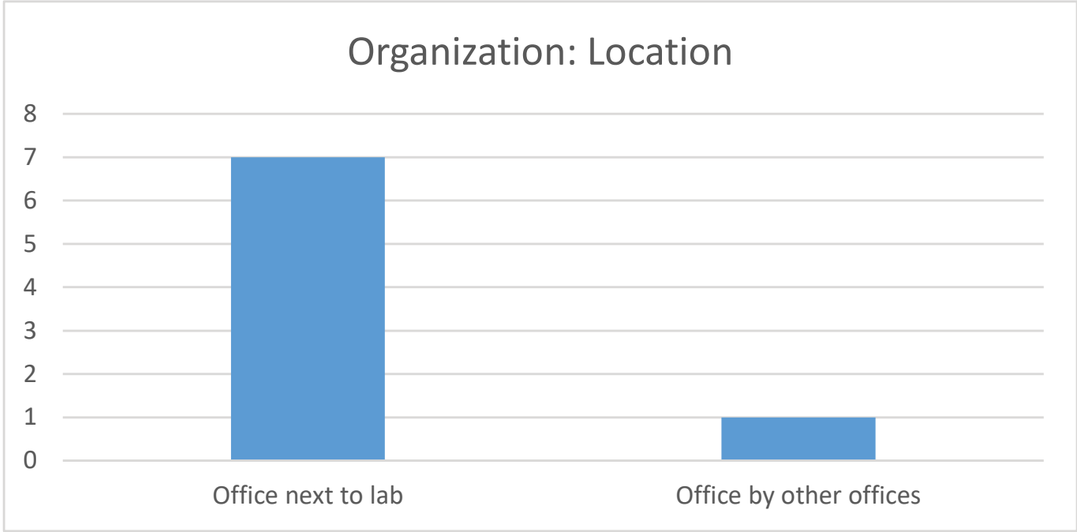


Image: Appearance
3
2
8
Attractive to visitor
Attractive to employee
Equally attractive to both

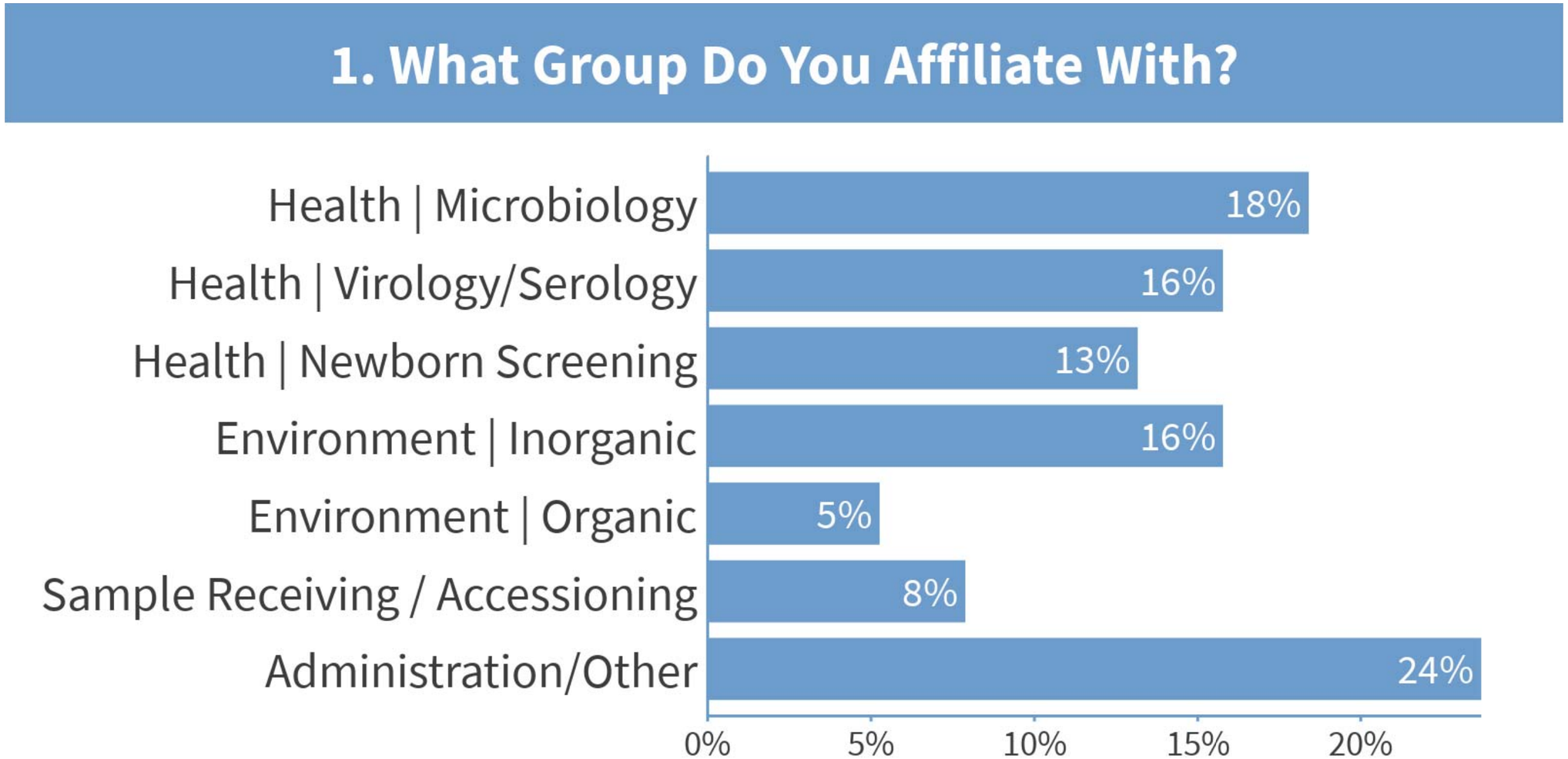

Organization: Grouping
8
7
6
5
4
3
2
1
0
Grouped by lab type
Grouped by process


Organization: Location
8
7
6
5
4
3
2
1
0
Office next to lab
Office by other offices

APPENDIX D

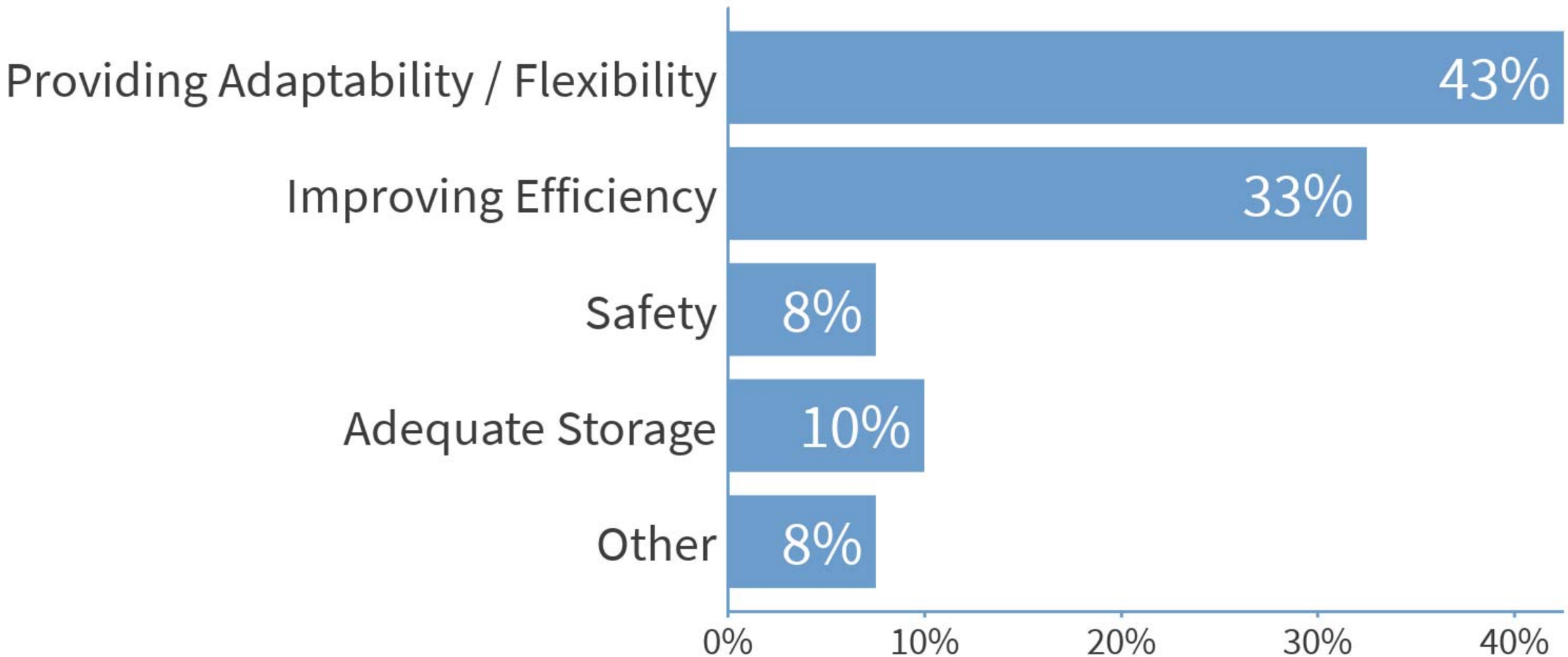
KDHE POLL EVERYWHERE RESPONSES

KDHE POLL EVERYWHERE RESPONSES

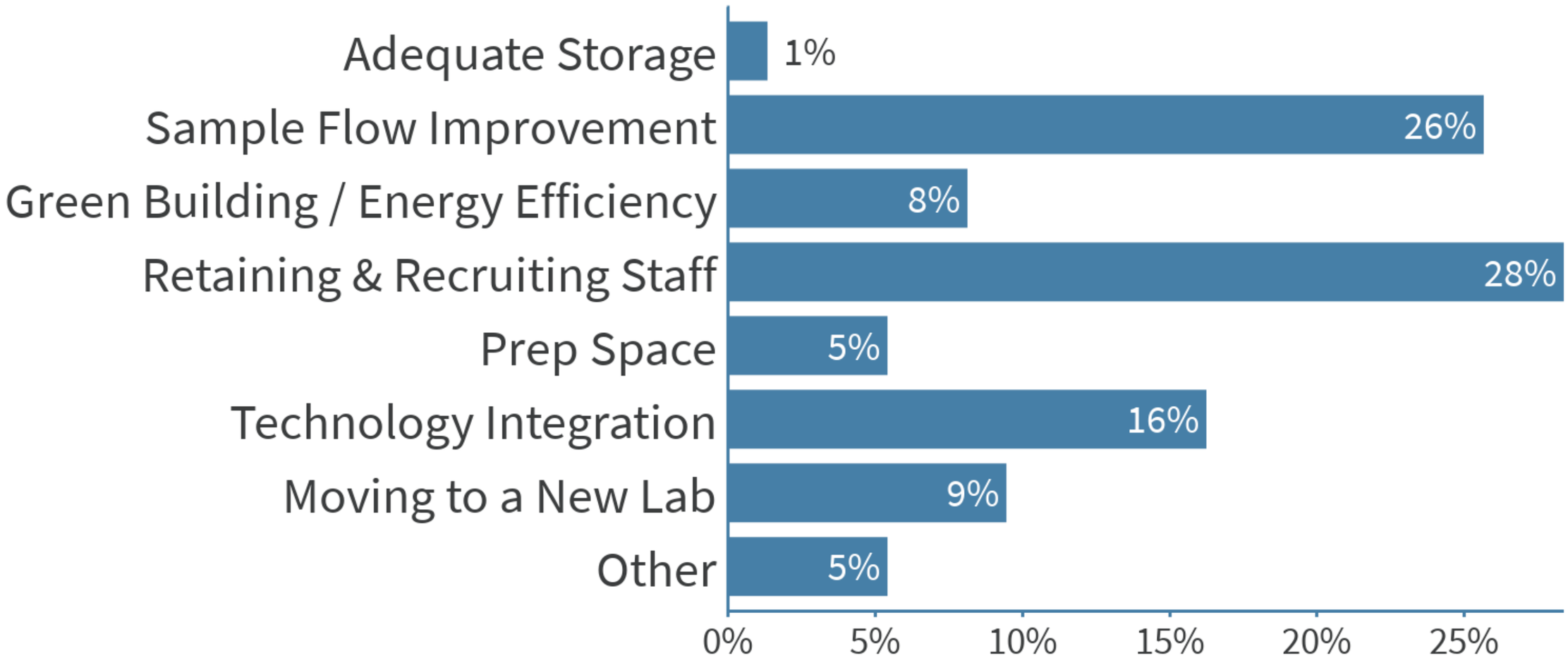


2. What one word best describes your vision for the new labs?

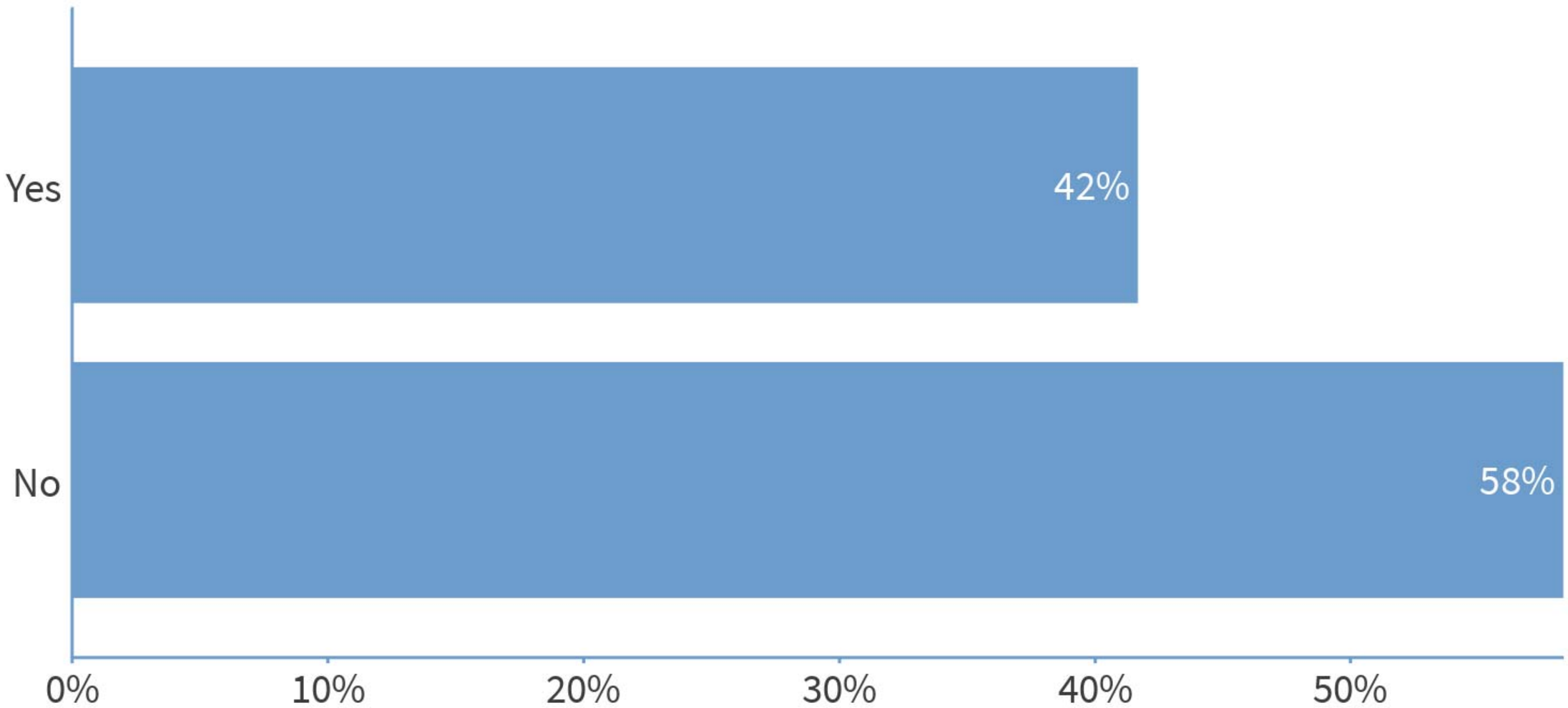
3. What is the most important aspect of the lab?



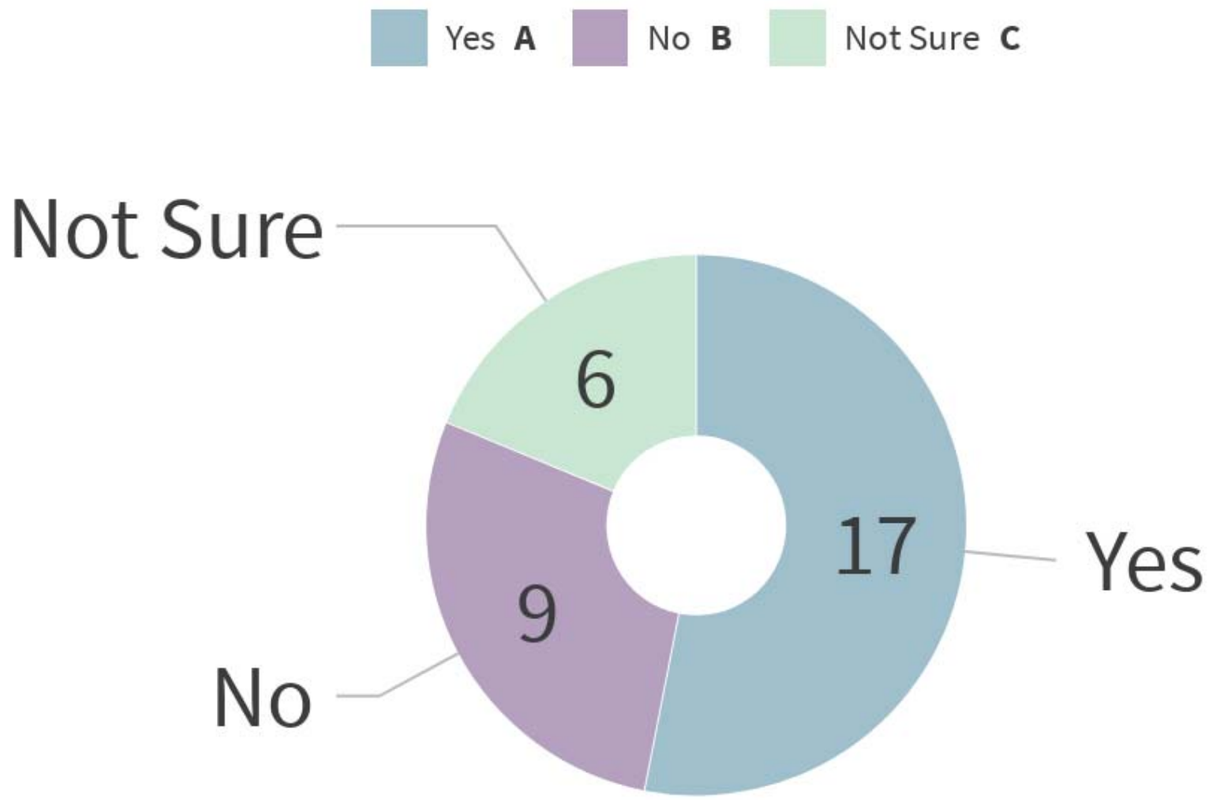
4. What are your top two concerns with this project?



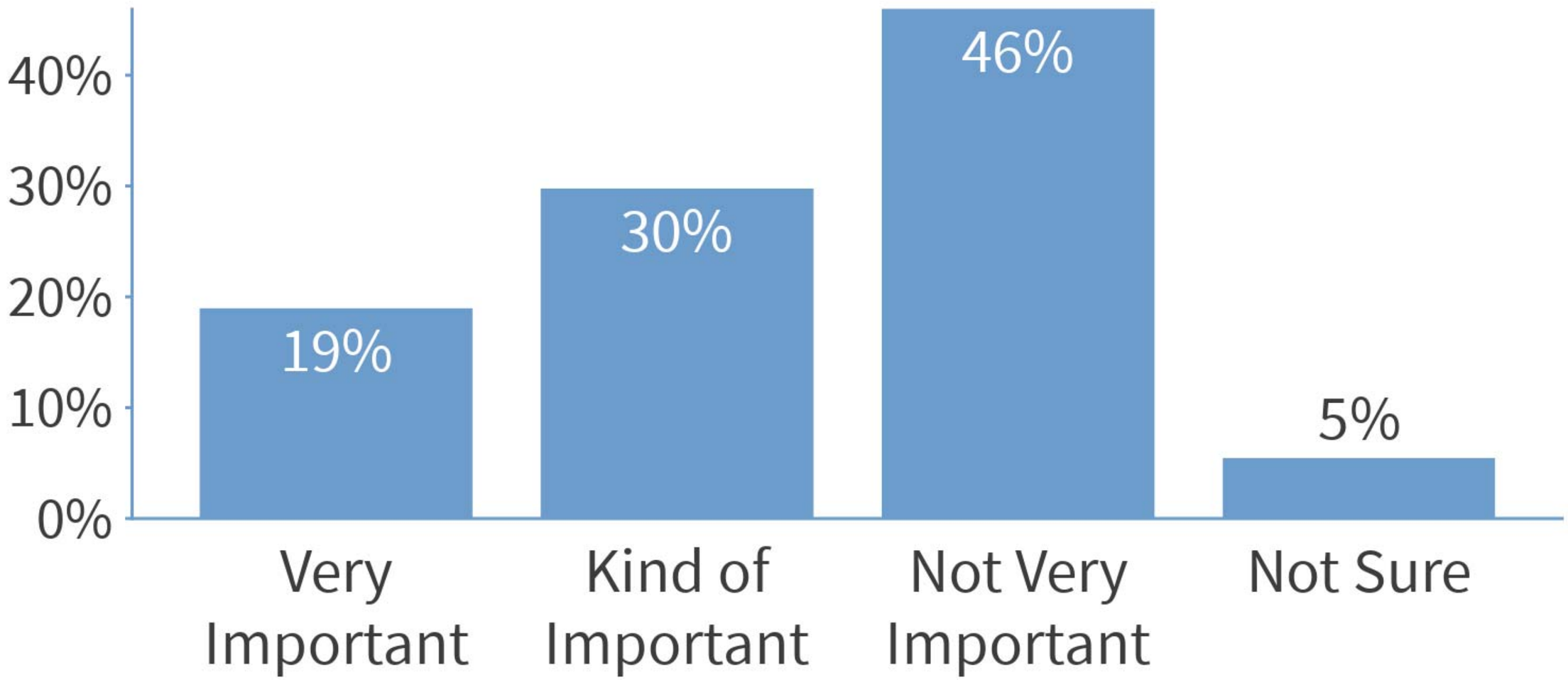
5. Does natural daylight affect the operations of the lab in a negative way?



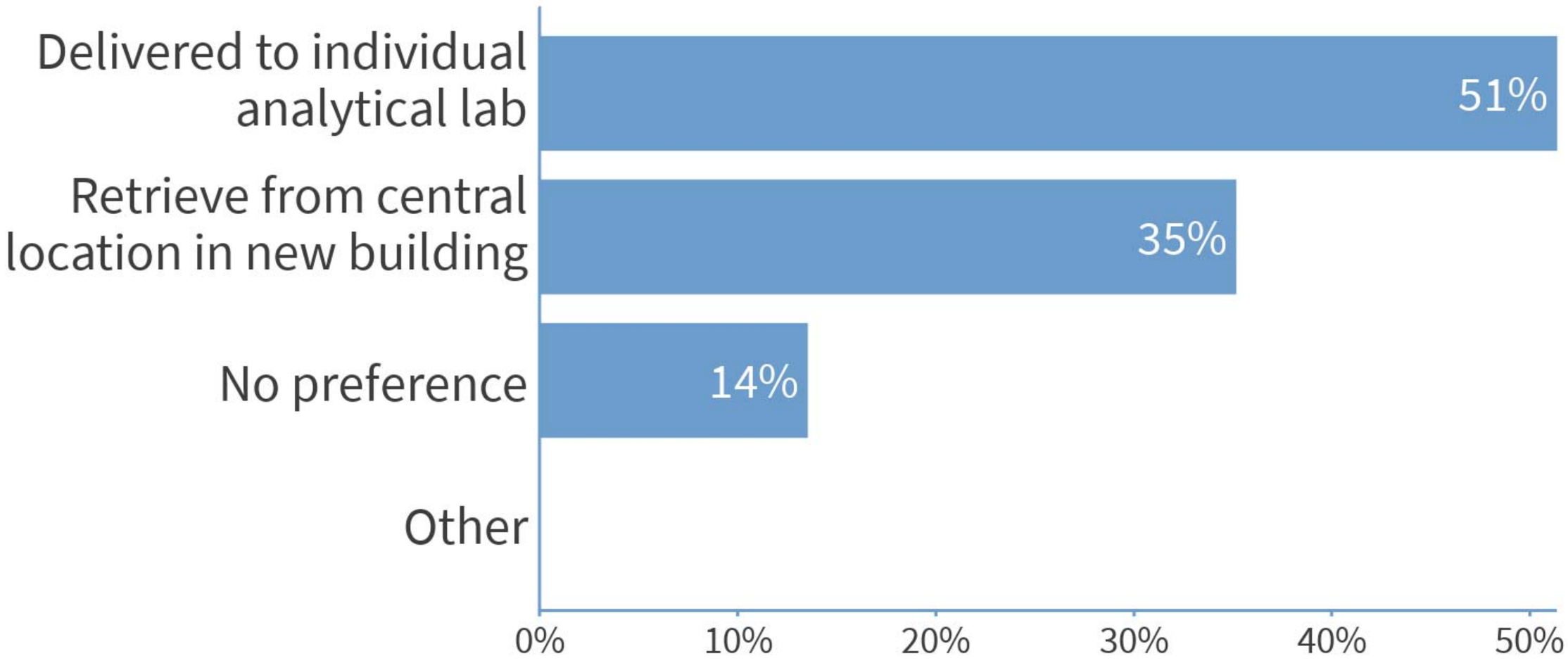
6. Are tour routes needed?



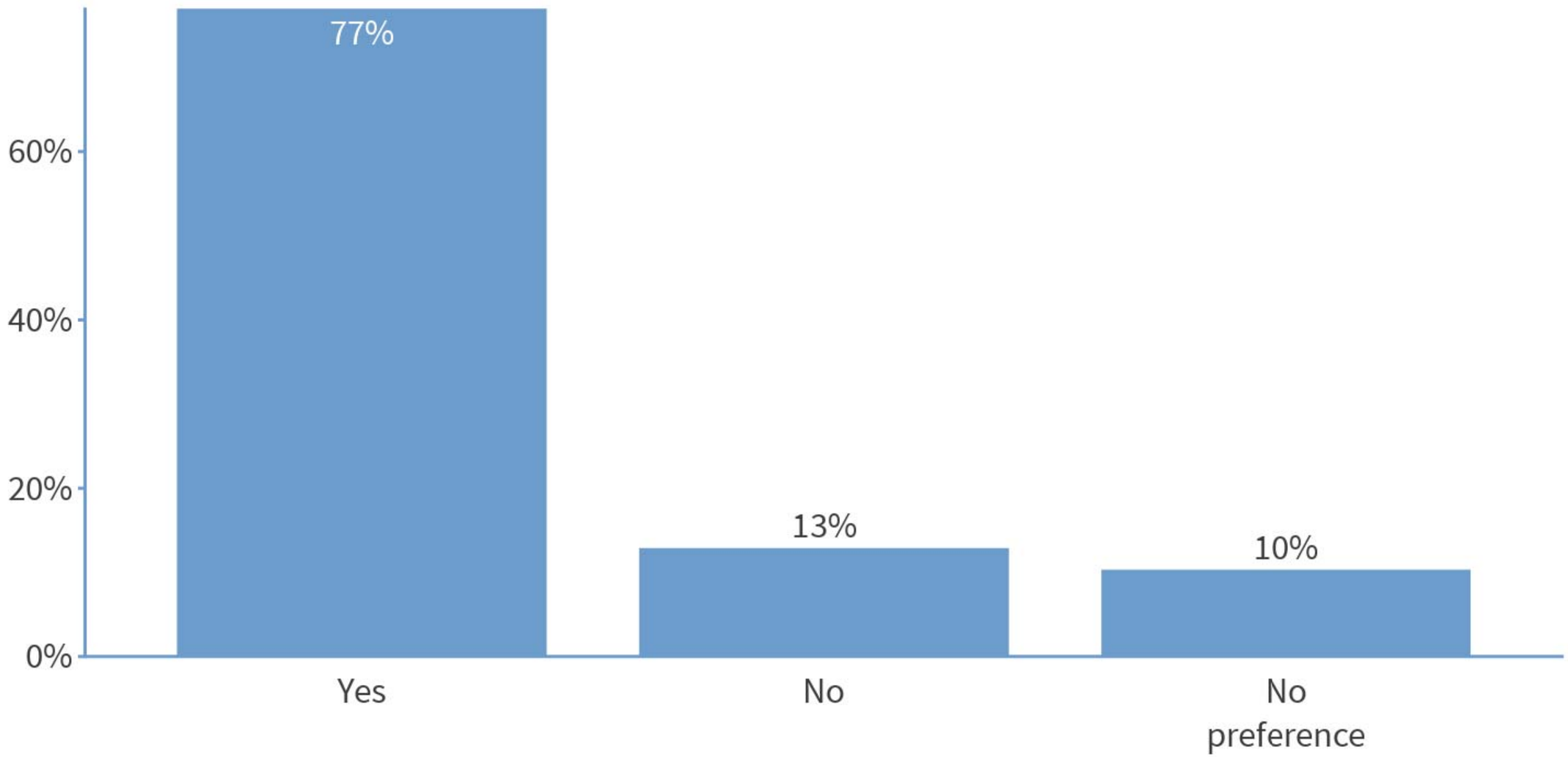
7. How important is branding within the building?



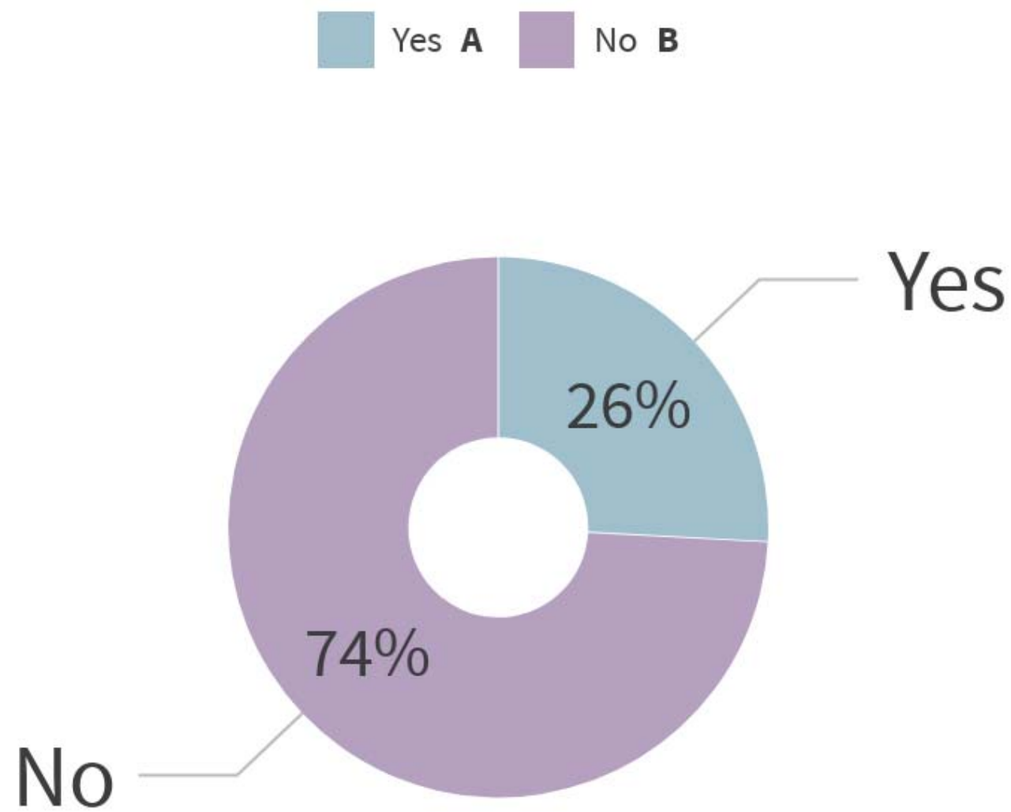
8. How should samples be received in the lab?



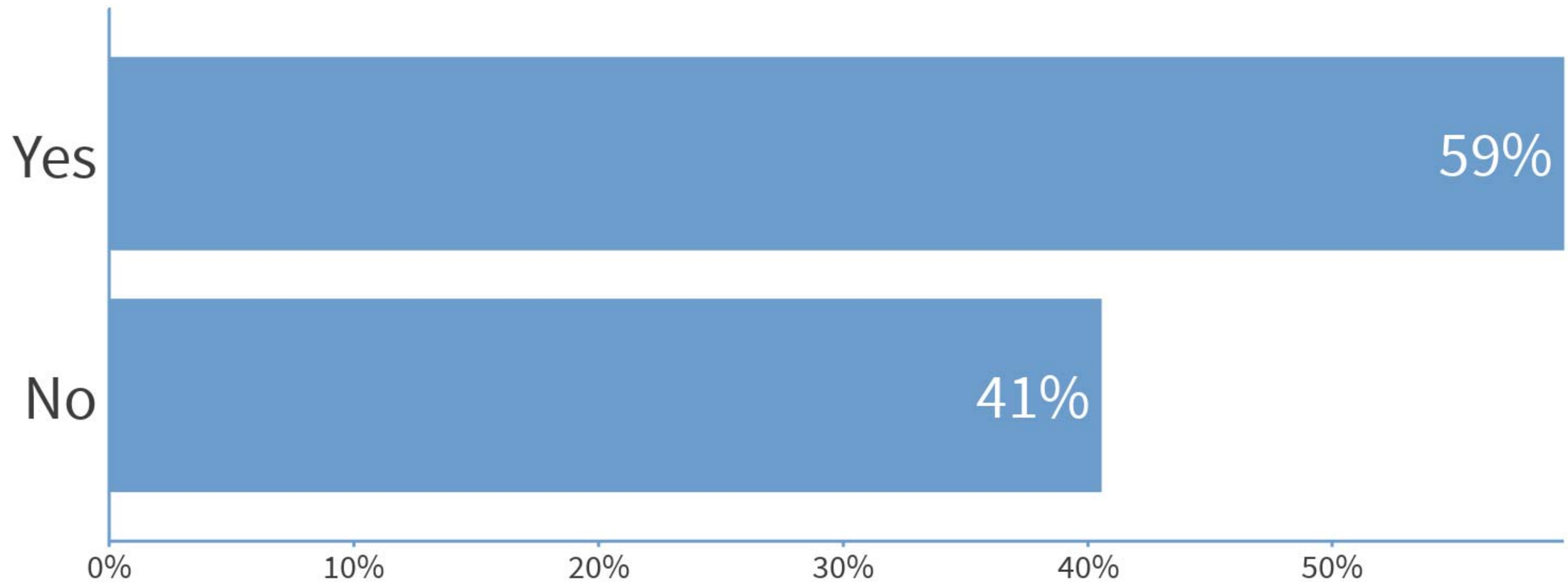
9. Is the office relationship to the lab critical, meaning within a few feet of the lab door?



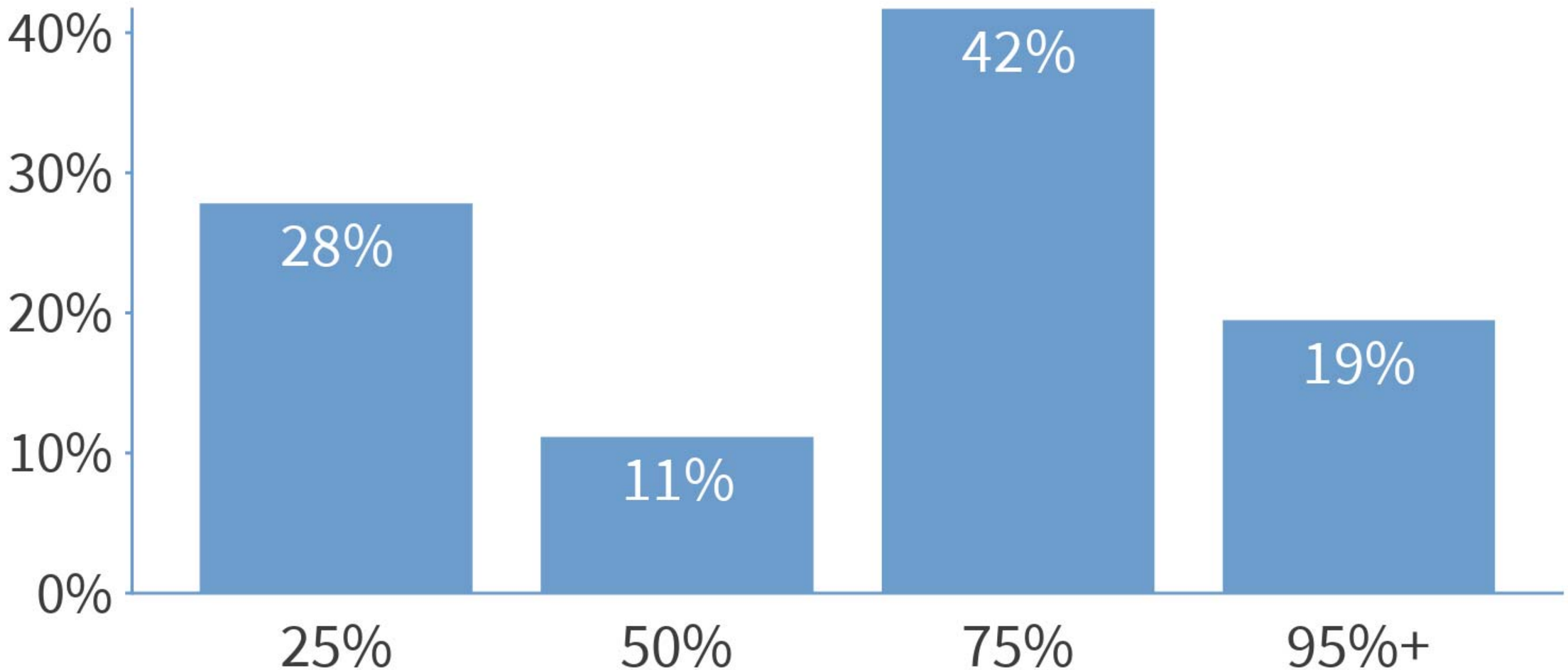
10. Can the offices be placed on another floor?



11. Do you need a conference room within a few feet of the labs/office?

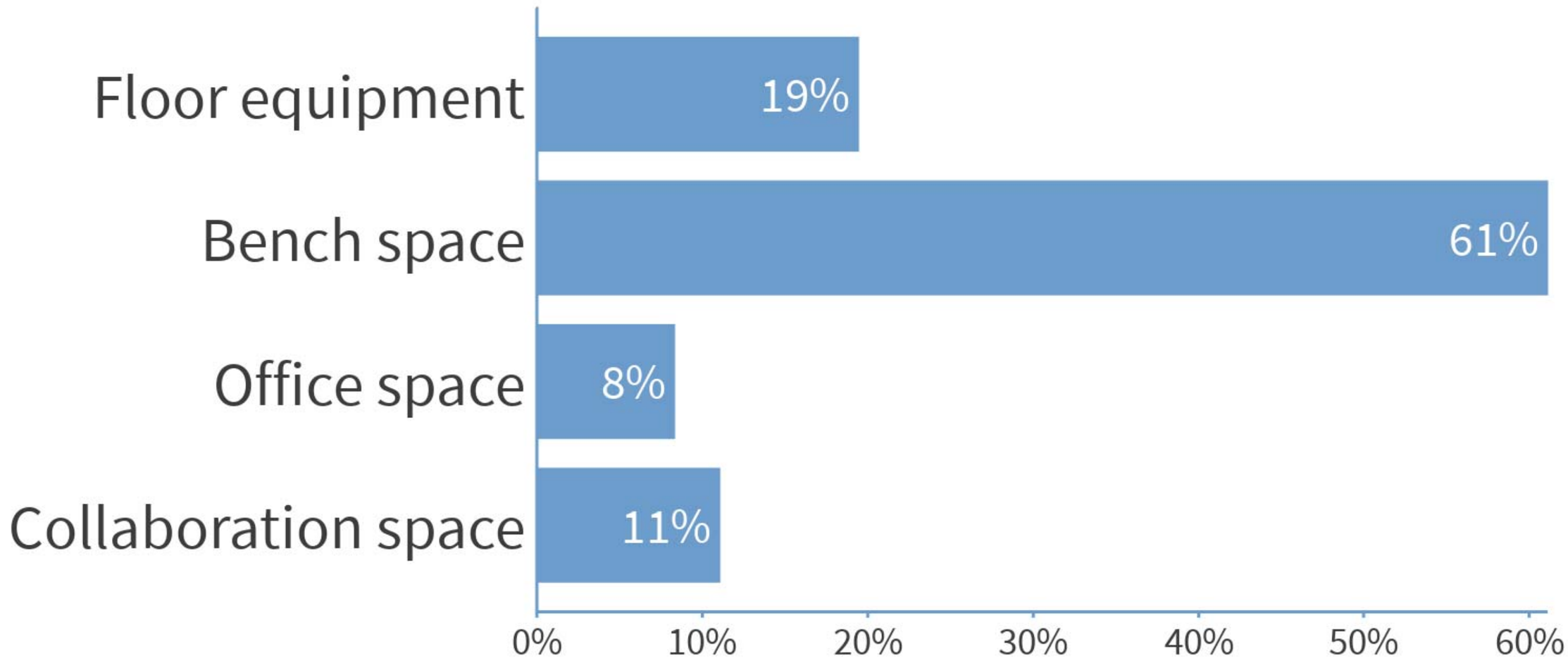


12. On average, how much time per day is spent in the labs?



13. What features / amenities do you want to see in the new facility?

14. In the future, will you need more space for:



15. What would you like to see in this building to make you proud to work at KDHE?

16. Write the Headline you want published at Ribbon Cutting

"Pay us more"
5 months ago

"State of the art facility serving all Kansas Citizens"
5 months ago

"We are in the Endgame now"
5 months ago

"Pipes work good here."
5 months ago

"All the bugs are gone"
5 months ago

"Interestingexteriorarchitecturalelements"
5 months ago

"Cutting edge"
5 months ago

"A modern American marvel"
5 months ago

"A modern facility to ensure Kansan's wellbeing."
5 months ago

"Fruit gushers"
5 months ago

"Itsgooshers!!!"
5 months ago

"It's a lab!"
5 months ago

"Pay-raise"
5 months ago

"No more bugs in our lights"
5 months ago

"It's lit"
5 months ago

"It's all downhill from here"
5 months ago

"Flabbergasting"
5 months ago

"It's grape!"
5 months ago

"State of the art"
5 months ago

"Riveting"
5 months ago

"State Health Lab no Longer Gross"
5 months ago

"Ks decides to build lab AND increase pay"
5 months ago

"New Green KDHE Lab"
5 months ago

"Modern and efficient"
5 months ago

"No more Bugs!"
5 months ago

APPENDIX E

ENERGY MODELING REPORT

KDHE

Schematic Design Energy Modeling Report

4 December 2019

Energy studio

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Schematic Design Energy Modeling Report

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Executive Summary

This report will evaluate the current proposed design of the new KDHE facility using a total building energy modeling software package. Total building annual energy use and annual energy cost will be evaluated and compared to the ASHRAE 90.1-2010 baseline according to Energy and Atmosphere – Prerequisite 2 (Minimum Energy Performance) and Credit 1 (Optimize Energy Performance) of the LEED Reference Guide for Green Building Design and Construction – Version 4.

The building's area includes laboratories, classrooms, offices, and support spaces totaling approximately 113,000 square feet. The schematic design drawings and discussions with the project team served as the basis of this modeling effort. Energy conservation measures (ECMs) have been tested in the energy model and optimized building performance solutions have been suggested based on this testing.

Based on the optimization analysis, a Proposed Case model has been developed that includes the following high performing, yet reasonably attainable, design characteristics:

- Exterior wall construction assembly: U-0.042 (R-25)
- Roof construction assembly: U-0.025 (R-40)
- 40% window-to-wall ratio, no shading
- Fenestration assembly: U-0.30, SHGC-0.40
- Lighting power density = 0.8 W/sf with continuous dimming daylighting controls
- Mechanical: Chilled water cooling system, condensing boiler, designed outdoor air quantities and airflows included in model
- Utility rates based on utility data provided by project team

With these characteristics, the Proposed Case building has an energy cost savings potential of 11.1 % compared the Baseline Case building.

<u>Baseline Case:</u>

Annual Estimated Energy Cost:	$256,053
Site Energy Use Intensity (EUI):	123 kBTU/ft²/yr

<u>Proposed Design:</u>

Annual Estimated Energy Cost:	$227,740
Site Energy Use Intensity (EUI):	104 kBTU/ft²/yr
% Energy Cost Savings:	11.1%
Potential LEED EAc1 Points:	3 points

For reference, an energy model scenario using the optimal solution has been run. This model includes the following design characteristics:

- Exterior wall construction assembly: U-0.037 (R-27)
- Roof construction assembly: U-0.020 (R-50)
- 30% WWR, 3' shading
- Fenestration: Assembly U-0.30, SHGC-0.40
- Lighting Power Density = 0.7 W/sf with continuous dimming daylighting controls

<u>Optimal Solution Design:</u>

Annual Estimated Energy Cost:	$217,916
Site Energy Use Intensity (EUI):	99.7 kBTU/ft²/yr
% Energy Cost Savings:	14.9%
Potential LEED EAc1 Points:	5 points

Note that the energy cost difference between the Proposed Case model and Optimal Solution is about $10,000/year.

Additionally, for reference and comparison, the existing building has the following performance characteristics:

Total Measured Energy Cost:	$272,127
Site Energy Use Intensity (EUI):	215 kBTU/ft²/yr

While the total energy cost does not significantly change between the existing and Proposed Case building, the building's EUI (actual energy use) meaningfully reduces with the new design. This is because the heating energy use will significantly reduce in the Proposed Case building; however, because the current natural gas rate is fairly low, the building's utility cost total is not showing as drastic of a change.

Purpose of Document

1. **Establish the ASHRAE 90.1-2010 Baseline Case Performance**

   The Baseline Case is a theoretical building energy model compliant with the requirements of ASHRAE 90.1-2010 Appendix G (ASHRAE 90.1). The Baseline Case energy model establishes the theoretical minimum energy performance for use as a basis of comparison between the requirements of ASHRAE and the proposed design.

2. **Establish the Building Performance of the Proposed Design**

   Also compliant with the requirements of ASHRAE 90.1-2010, the performance of the Proposed Design is compared to the performance of the Baseline Case to establish the extent of energy saved and reduction in energy related operating costs.

3. **Report the Status of the Energy Modeling Effort to Date**

   The summary overview is intended to be a status report of the energy modeling efforts and not the final energy model document. Presently, the energy modeling effort is based on the schematic design drawings provided November 2019.

Performance Results

The following tables and graphs summarize the Proposed Design and Baseline Case energy performance.

Table 1. Energy Summary by End Use

End Use	Energy Type	Baseline Case [MMBtu]	Proposed Design [MMBtu]
Lighting - Interior	Electricity	991.6	841.5
Lighting - Exterior	Electricity	14.9	14.9
Space Heating	Gas	5541.6	4072.2
Space Cooling	Electricity	1154.0	1065.0
Pumps	Electricity	2165.9	1957.5
Heat Rejection	Electricity	402.1	384.3
Fans	Electricity	1718.9	1425.1
Service Water Heating	Gas	134.4	134.4
Misc. Equipment	Electricity	1805.7	1805.7
Consumption subtotal		13,929.0	11,700.6
On-site Renewables		0	0
Total Consumption		**13,929.0**	**11,700.6**
Energy Consumption Savings			**16%**

Table 2. Energy Cost Summary by Utility

Type	Baseline Case [$]	Proposed Design [$]
Electricity	$227,503	$206,581
Natural Gas	$28,550	$21,159
Total Cost	**$256,053**	**$227,740**

Energy Cost Savings	**11.1%**
LEEDv4 Optimize Energy Performance Points	**3**

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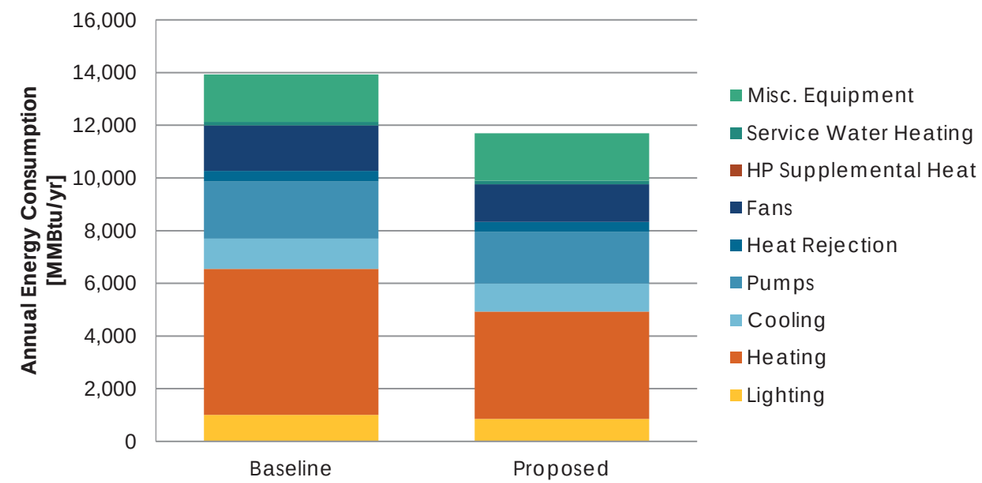
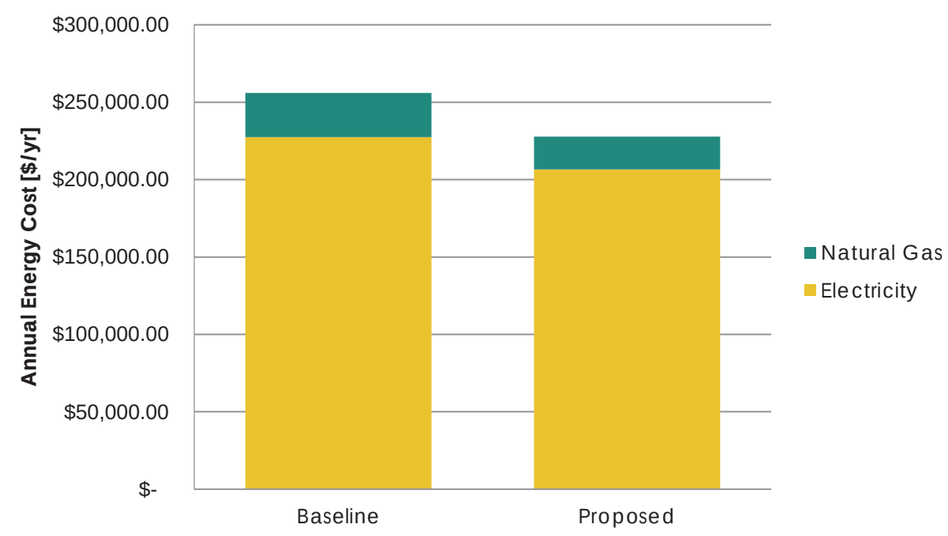
Schematic Design Energy Modeling Report

Graph 1. Annual Energy Consumption by End Use



Graph 2. Annual Energy Cost by Utility



Engineering Analysis

The modeling effort represents the building as described in the schematic design drawings provided November 2019. The building data has been input into the energy modeling software and evaluated in an effort to calculate and compare the annual energy cost savings associated with various energy conservation measures. A genetic algorithm was used to evaluate a range of envelope, fenestration, and lighting attributes and their collective performance in various combinations.

Optimization is a technique used to identify the design option combination that best achieves key performance objectives. While similar to parametric analysis which uses design curves to describe building performance changes resulting from a single ECM, optimization tests multiple ECMs at the same time to find the "sweet spot" for each method within a single design. Almost 1,200 iterations have been run in the energy modeling software to determine the optimal solution for this building. The project team has communicated that they are most interested in seeing the results organized by annual energy consumption and energy cost. The options with the optimal designs will appear near the left-bottom corner of the graphs that follow.

The Baseline Case has been established using ASHRAE 90.1-2010. In the absence of design details, several building parameters have been modeled in accordance with the code minimum.

- Massing & Geometry: Model reflects the geometry, floor plan, and fenestration layout defined in the BIM model
- Lighting power: Baseline LPD= 0.99 W/ sf
- Baseline HVAC System: ASHRAE 90.1-2010 System 7 Chilled water VAV with hot water reheat

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Schematic Design Energy Modeling Report

The parameters tested in this optimization analysis are organized in the table below. The tested values have been established with the project team to represent realistic and attainable design constraints.

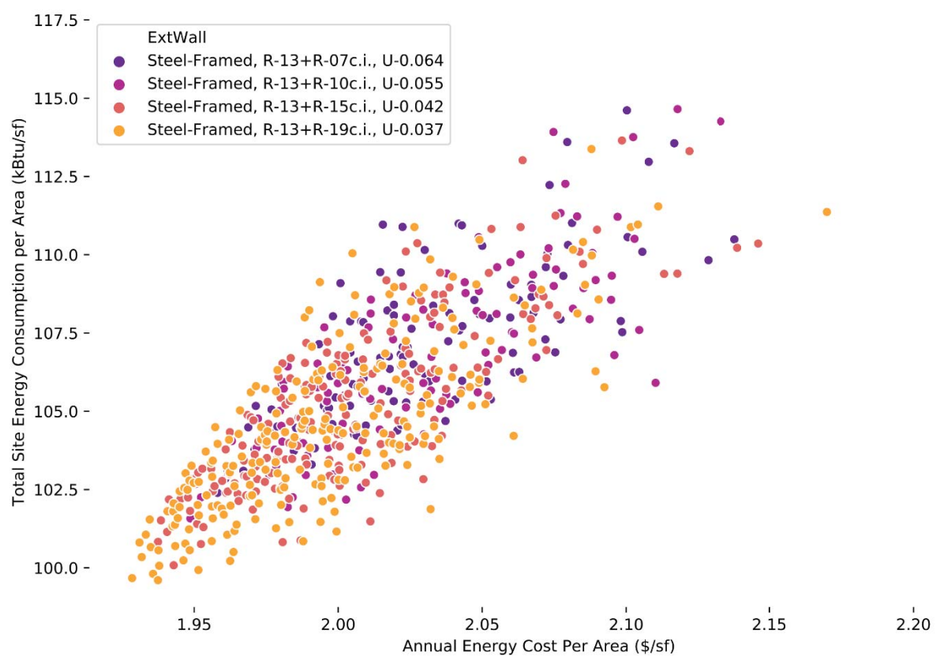
Parameter	Minimum	Maximum	Step
Window to wall ratio	30%	45%	5%
Exterior wall insulation	Steel-frame, R-13 + 7.5 ci	Steel-frame, R-13 + 19 ci	4 levels of insulation
Roof Insulation	R-20	R-50	4 levels of insulation
Fenestration SHGC	0.20	0.60	0.05
Fenestration U-value	0.3	0.5	0.1
Fenestration shading	No overhang	6.0 ft overhang	3.0 ft
Lighting power density	0.70, with daylight control	0.90, with daylight control	0.10 W/sf

Envelope Performance Study

Wall Performance

The first graph illustrates the results of all iterations of the model ran with the four exterior wall construction types. Based on the data point cloud shown in Figure 3, a wall construction R-value of at least 23 is preferred for optimal performance for this building.

Figure 3. Exterior Wall Construction Options



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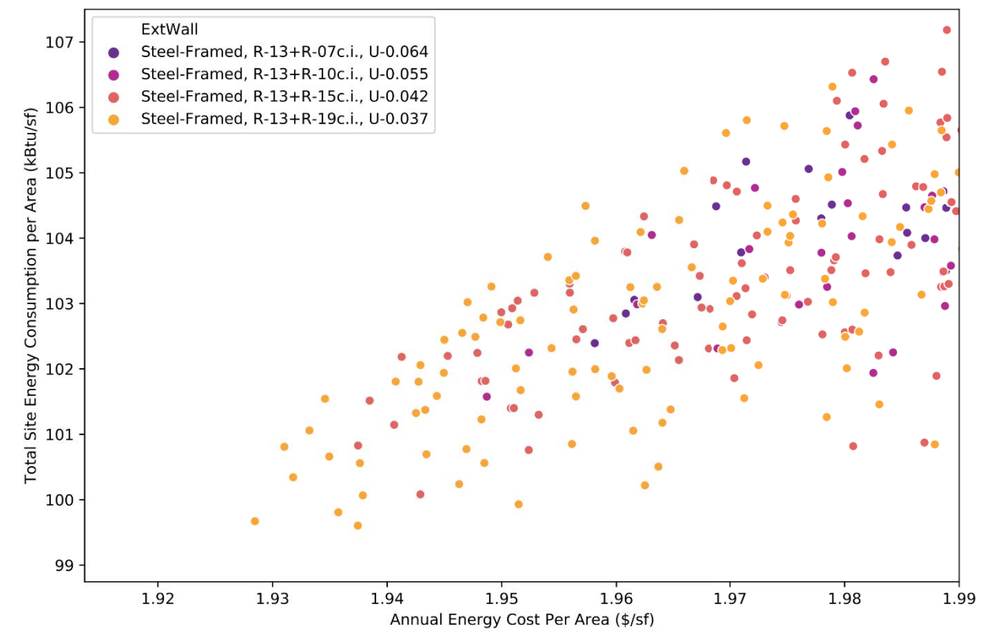
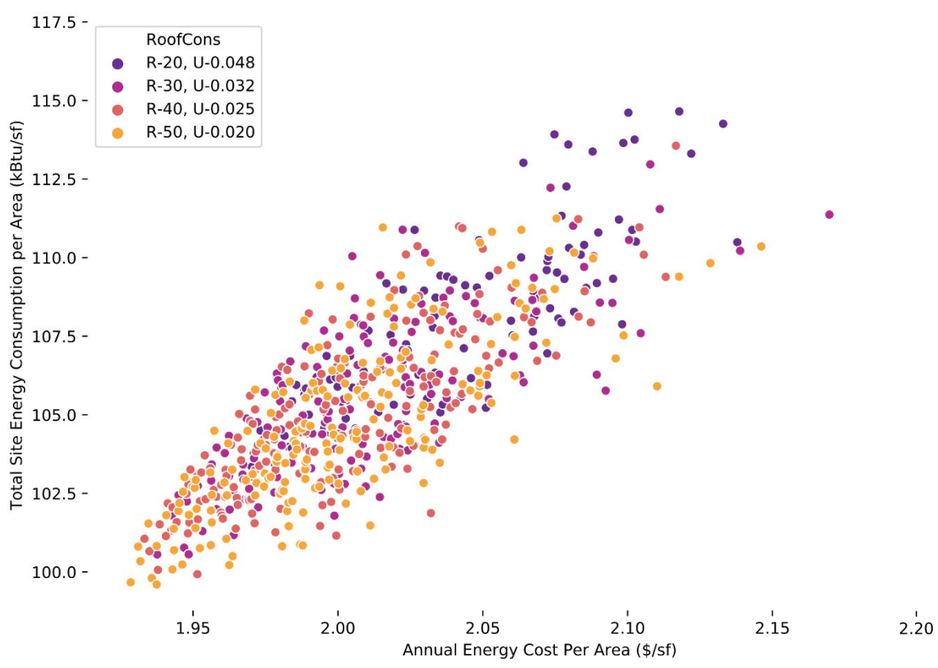


Roof Performance

Figure 4 illustrates the results of all iterations ran with the four exterior roof options:

Based on the data point cloud shown in the figure, a high roof construction R-value (R-40+) is preferred for optimal performance for this building. The roof square footage on this building is large with regards to the total building envelope percentage, so the impact of increasing roof insulation is meaningful. This is not always the case for tall buildings with a small footprint and reduced roof area.

Figure 4. Roof Construction Options



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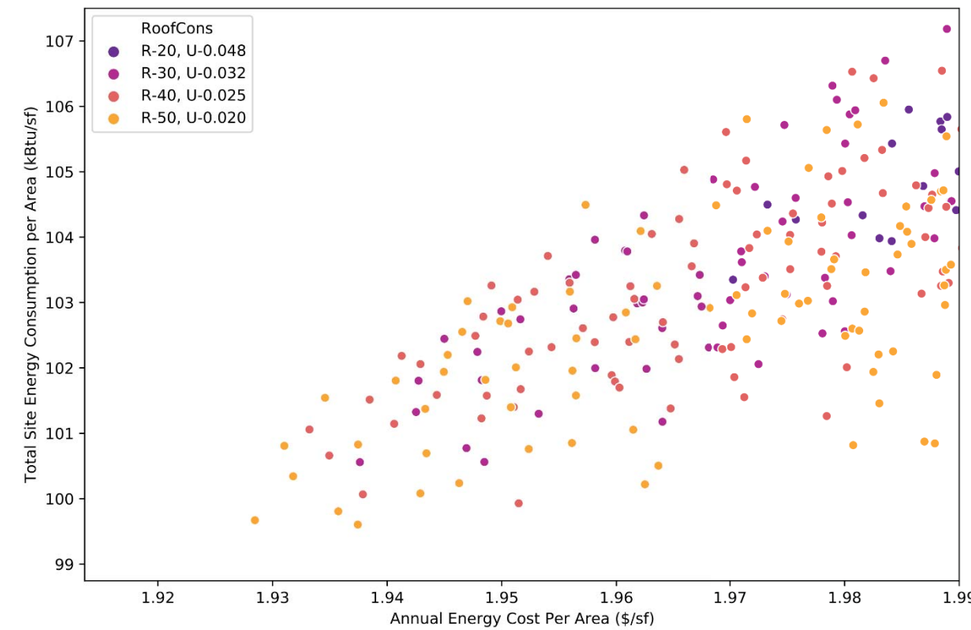


Fenestration Performance

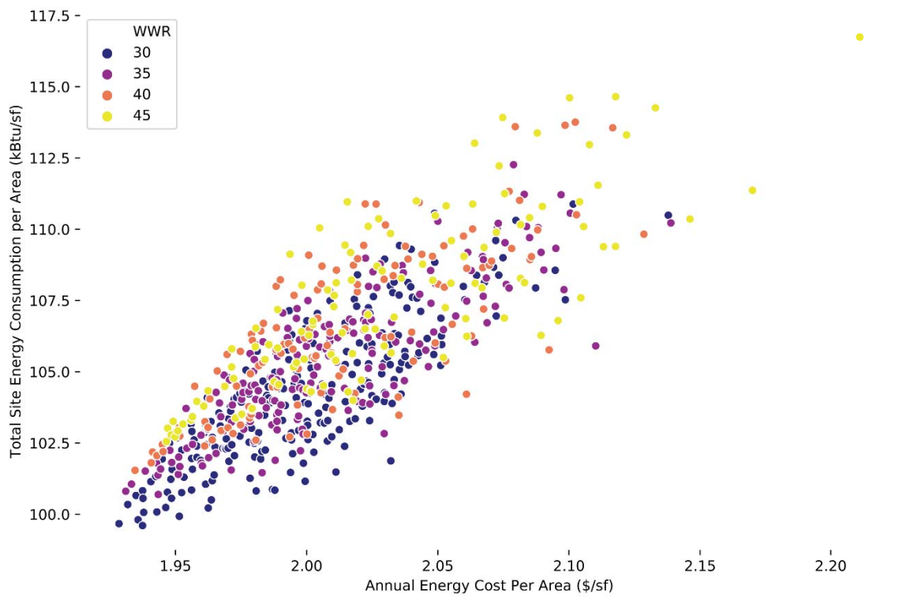
Figures 5, 6, and 7 illustrate the effect of varying the window characteristics: total window-to-wall ratio (WWR), fenestration solar heat gain coefficients (SHGC), and thermal conductivity (U-value).

Iterations with the lowest WWR are unsurprisingly performing well. It is recommended that this ratio be design as low as possible for the best energy performance

The results for the fenestration SHGC are interesting in that some of the higher performing options have high SHGC (0.50) and low U-values. However, if this scenario is pursued, please note that at least a 3' shading device must be used to reduce solar gains in the summer. The higher SHGC also contributes to the number of hours that daylighting controls are useful. However, if significant shading is not planned for this building, generally a window with a SHGC between 0.30 and 0.40 is recommended.

Based on the thermal conductivity results, a designed fenestration U-value as low as possible (U-0.30) is recommended for this building.

Figure 5. Fenestration Options – WWR



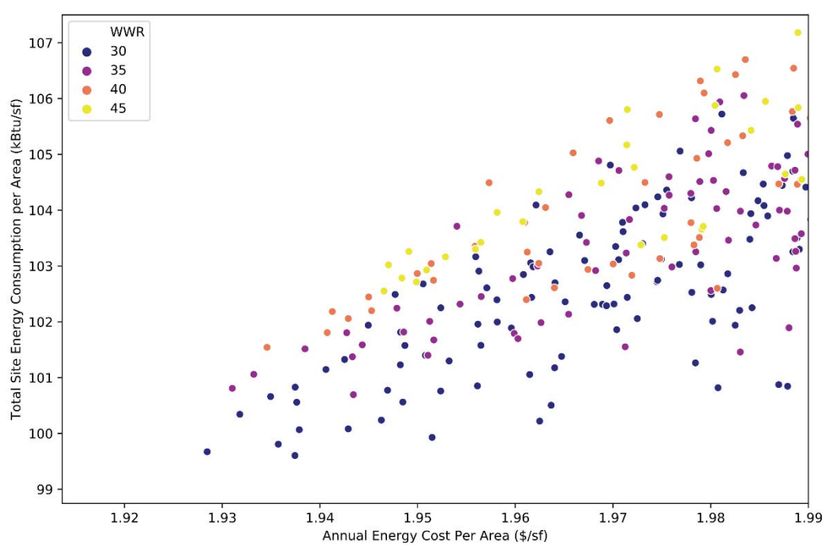


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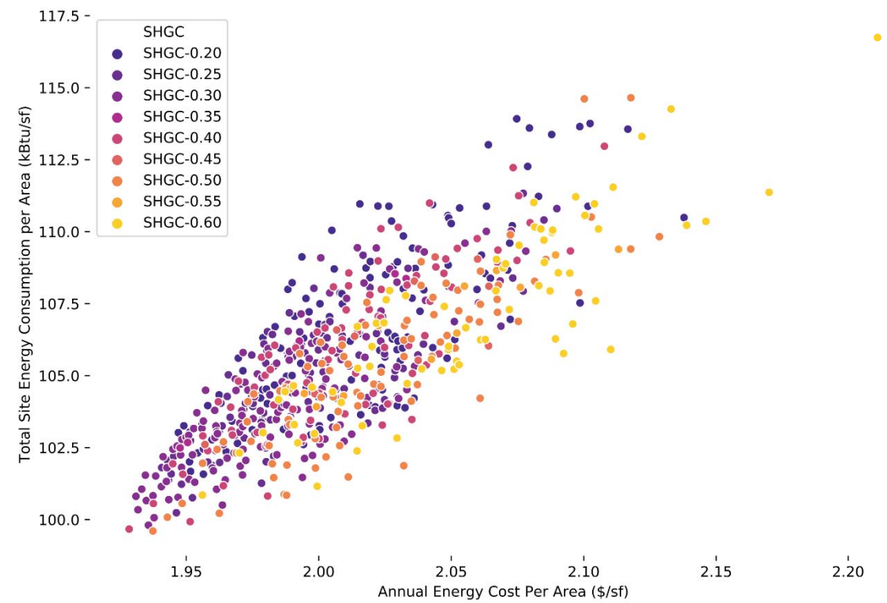
Figure 6. Fenestration Options – SHGC



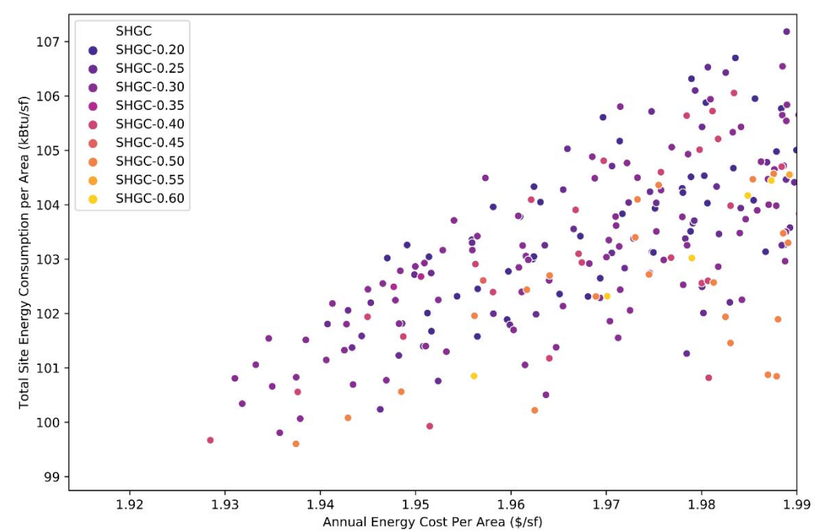
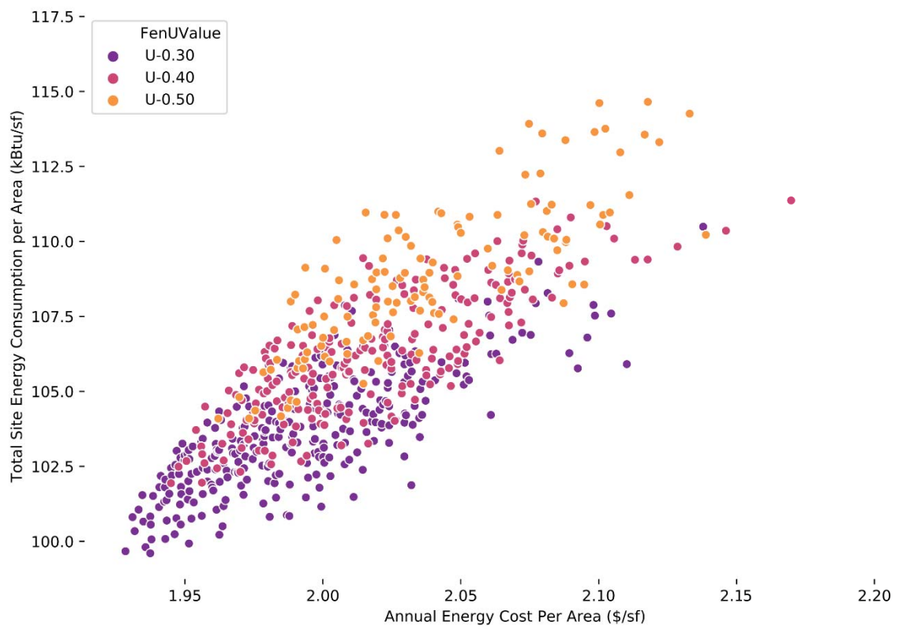
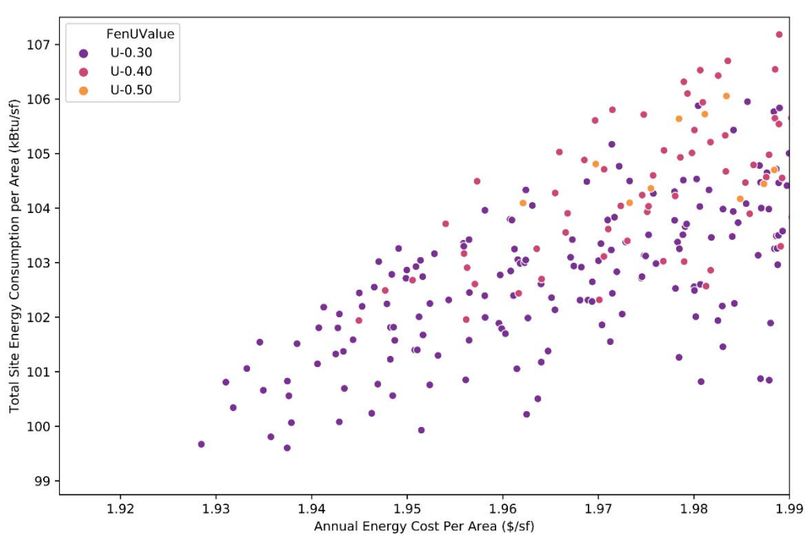


Figure 7. Fenestration Options – U-value





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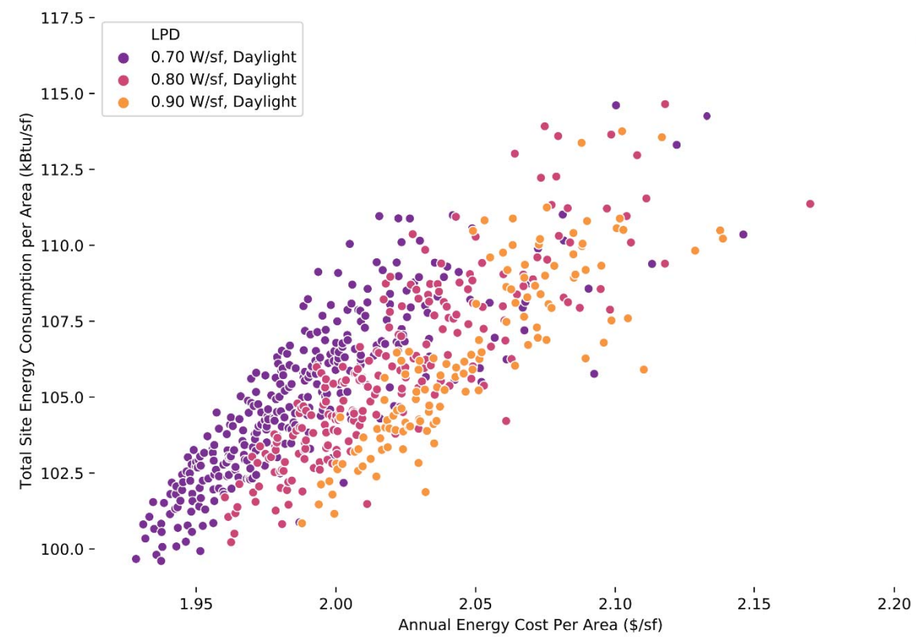
Lighting Performance

Figure 8 describes the result of testing three lighting power densities in all areas of the building. As expected, lower lighting power densities in the building results in lower energy use. Including daylighting controls only improves the building's performance. Presently, the daylighting controls are modeled as continuous dimming in the Proposed Case.

Figure 8. Lighting Performance Options



Optimized Performance Results

The results consider a wide variety of fenestration types in combination with varying wall constructions, roof constructions, and lighting scenarios. In order to provide useable feedback for the project team, the data has been consolidated to report only the combinations of ECMs that demonstrate the lowest energy consumption and energy cost. These fourteen optimal options reside at the bottom left corner of Figure 9. This area of the graph has been enlarged, see Figure 10. These iterations reflect design bundles that result in a similar annual energy cost. See Table 3 for details about each optimized iteration. If 0.7 W/sf of lighting is too low of an assumption for this facility, Table 4 has been provided and outlines the highest performing iterations using 0.8 W/sf of lighting.

Figure 9. All Performance Options

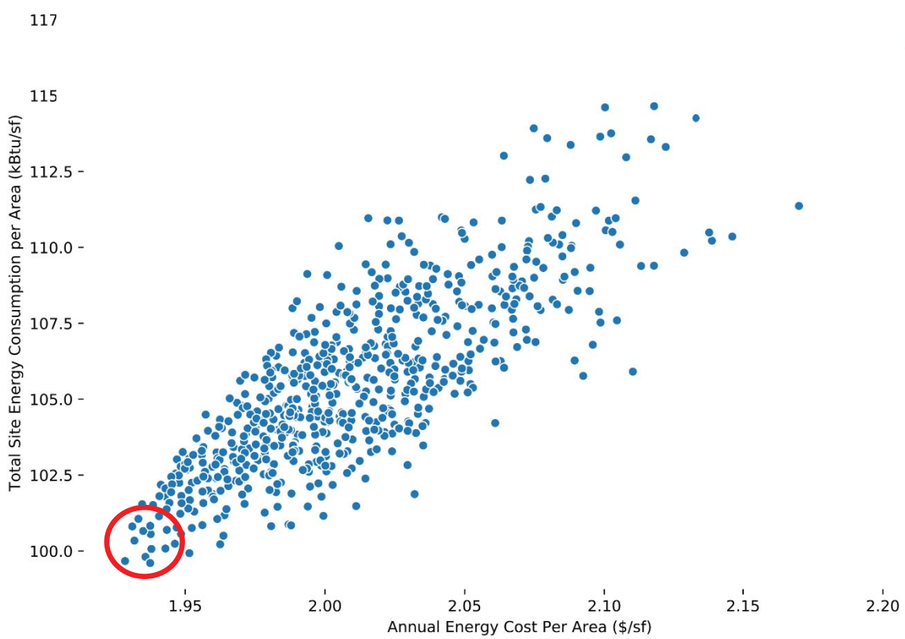


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Figure 10. Optimized Performance Options

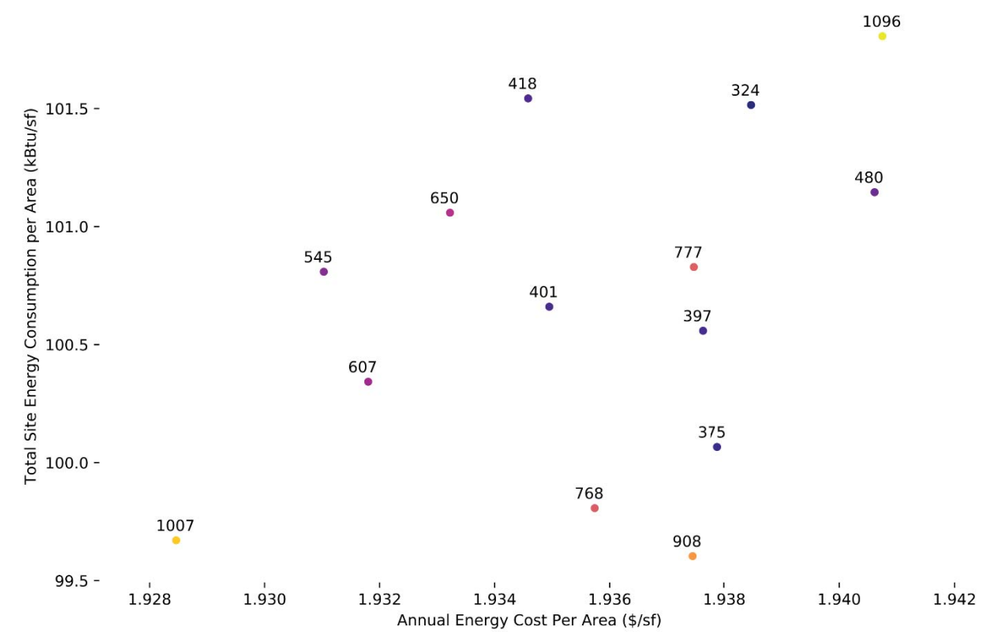

Table 3. Optimized Performance Options - Design Parameters

Iteration	Exterior Wall Construction	Roof Construction	Fenestration, U-value	Fenestration, SHGC	WWR	Lighting	Shading
1007	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.40	30	0.70 W/sf, Daylight	3.0ft Overhang
545	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	35	0.70 W/sf, Daylight	3.0ft Overhang
607	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	3.0ft Overhang
650	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	35	0.70 W/sf, Daylight	3.0ft Overhang
418	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	40	0.70 W/sf, Daylight	3.0ft Overhang
401	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	3.0ft Overhang
768	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	0.0ft (No shading)
908	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.50	30	0.70 W/sf, Daylight	3.0ft Overhang
777	R-13+R-15c.i., U-0.042	R-50, U-0.020	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	3.0ft Overhang
397	R-13+R-19c.i., U-0.037	R-30, U-0.032	U-0.30	SHGC-0.40	30	0.70 W/sf, Daylight	3.0ft Overhang
375	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	0.0ft (No shading)
324	R-13+R-15c.i., U-0.042	R-40, U-0.025	U-0.30	SHGC-0.30	35	0.70 W/sf, Daylight	3.0ft Overhang
480	R-13+R-15c.i., U-0.042	R-40, U-0.025	U-0.30	SHGC-0.30	30	0.70 W/sf, Daylight	3.0ft Overhang
1096	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.25	40	0.70 W/sf, Daylight	3.0ft Overhang

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Table 4. Optimized Performance Options – Includes 0.8 W/sf options only

Iteration	Exterior Wall Construction	Roof Construction	Fenestration, U-value	Fenestration, SHGC	WWR	Lighting	Shading
729	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	35	0.80 W/sf, Daylight	3.0ft Overhang
491	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	30	0.80 W/sf, Daylight	3.0ft Overhang
1111	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.50	30	0.80 W/sf, Daylight	3.0ft Overhang
1001	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.30	30	0.80 W/sf, Daylight	0.0ft (No shading)
396	R-13+R-19c.i., U-0.037	R-30, U-0.032	U-0.30	SHGC-0.40	30	0.80 W/sf, Daylight	3.0ft Overhang
426	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	30	0.80 W/sf, Daylight	3.0ft Overhang
15	R-13+R-15c.i., U-0.042	R-40, U-0.025	U-0.30	SHGC-0.30	35	0.80 W/sf, Daylight	3.0ft Overhang
705	R-13+R-19c.i., U-0.037	R-30, U-0.032	U-0.30	SHGC-0.30	40	0.80 W/sf, Daylight	3.0ft Overhang
241	R-13+R-15c.i., U-0.042	R-40, U-0.025	U-0.30	SHGC-0.30	30	0.80 W/sf, Daylight	3.0ft Overhang
1090	R-13+R-19c.i., U-0.037	R-40, U-0.025	U-0.30	SHGC-0.30	35	0.80 W/sf, Daylight	0.0ft (No shading)
293	R-13+R-15c.i., U-0.042	R-50, U-0.020	U-0.30	SHGC-0.25	40	0.80 W/sf, Daylight	3.0ft Overhang
159	R-13+R-19c.i., U-0.037	R-30, U-0.032	U-0.30	SHGC-0.30	30	0.80 W/sf, Daylight	3.0ft Overhang
846	R-13+R-19c.i., U-0.037	R-50, U-0.020	U-0.30	SHGC-0.20	40	0.80 W/sf, Daylight	3.0ft Overhang

Appendix A

Table 5: General Information

Building Element	Baseline Case
Modeling Software	Design Builder, version 6.0.1.019
Weather File	USA_KS_TOPEKA MUNICIPAL AP_TMY3
Climate Zone	Zone 4A
Virtual Electric Rate	$0.094/kWh
Virtual Natural Gas Rate	$ 0.503/therm
Operation Schedule	Typical Office Schedule

Table 6: Envelope

Building Element		Baseline Case
Roof Construction	Description	Insulation Entirely Above Deck
	Insulation	R-20 ci
	Assembly U-value	U-0.048
Exterior Wall Construction	Description	Steel-Framed
	Insulation	R-13 + R-7.5 ci
	Assembly U-value	U-0.064
Slab-on-Grade Floor Construction	Description	Unheated
	Insulation	NR
	Assembly F-factor	F-0.730
Window-to-gross Wall Ratio	North %	40%
	East %	40%
	South %	40%
	West %	40%
Fenestration	Description	Metal framing
	Assembly U-value	U-0.55
	SHGC	0.4
Shading Devices	Description	Not required

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Table 7: Electrical Systems

Building Element			Baseline Case
Interior Lighting Power	LPD Method		Building Area: School
	Avg. LPD	W/ft²	0.99
Misc. Equipment Power Density (W/ft²)	Laboratory		4.0 W/sf
	Office		1.0 W/sf
	IT		5.0 W/sf

Table 8: Air-side Mechanical Systems

Building Element		Baseline Case	Proposed Case
HVAC System	Tag	System 7: Variable Air Volume with HW reheat ASHRAE 90.1-2010 compliant system	VAV system served by water-cooled chiller (6.1 COP) and condensing hot water boiler (96% efficiency) Lab AHU: 58,200 cfm 100% OA w/ 50% eff heat pipe BSL3 AHU: 5,000 cfm 100% OA w/ 50% eff heat pipe Office AHU: 36,800 cfm 23% OA
	Type	VAV system served by water-cooled chiller (6.1 COP) and hot water boiler (80% efficiency) Ventilation modeled identical to Proposed Case	

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